BILSING AUTOMATION®

SPEED UP YOUR PRODUCTION

KOMPONENTENKATALOG 2023-2024 FÜR
PRESSWERK, WARMUMFORMUNG & ROHBAU



SET THE PACE!

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Edition: **01 /2023**

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Worldwide expertise in flexible lightweight tooling

BILSING AUTOMATION is a leading supplier of industrial tooling solutions, specializing in automated tooling and material handling systems. We have over 35 years' experience in the automotive stamping and bodyshop, as well as developing material handling solutions for injection molding, fabrication, packaging, hydroforming and non-automotive applications. Our tooling is based upon an innovative modular system, which provides the flexibility to rapidly configure customized solutions from our array of standard components. We offer automated pressroom solutions for robotic press-to-press transfer, linear transfer, tri-axis transfer presses, crossbar transfer presses and the new range of high speed presslines. Our long-term experience and constant innovation management help us to efficiently develop affordable customized solutions.

Globally focused, our worldwide network of subsidiaries located in Europe, North America, South America, Asia, Africa and the Pacific Rim supports our customers through planning, design, engineering, assembly and commissioning. Our global staff is purposefully situated to provide efficient service and cultural understanding.

With about 15.000 components BILSING offers a weight range of components for flexible gripping and handling systems. All parts are developed and produced for the BILSING modular system. Therefore, our components can be combined flexible, for customized systems and solutions. This advantage will be used by our engineers consequently to generate cost-saving and high quality automation solutions.





Why good when better is possible? - We optimize your manufacturing process

For multiple-step forming processes the supply of boards, the forwarding of work pieces from one tool to the next and the dispensing of the completed forming parts from the forming process must be meticulously coordinated.
This synchronization of parts- and tool movements in the press can usually be performed during the adjustment- and activation phase; it can also be optimized with state-of-the-art 3D simulation methods.

BILSING AUTOMATION is using the simulation method for development and planning of customer specific gripping systems since 10 years to increase the output on manufactoring lines.

Advantages of simulation method:

- **Supply of OP-parts is not necessary**
- **Decreased shutdown time, because adjustment and testing on the simulator is not necessary**
- **Simulation within a tolerance range of 1 to 3 mm**
- **Collision test inclusive determination of safety distances**
- **If applicable identifying necessary adjustments of dies**
- **Improved transfer movement**
- **Offline Robot programming**
- **Expertise of forming process times and slowest process**
- **Increased stroke rates and output of complete press line**

Based on a long lasting engineering, BILSING AUTOMATION is able to digitize and simulate all types of presses (mechanical, hydraulic or servo presses) today. Many of customers in the automotive industry already benefit from this optimization process.
Optimize your process now!

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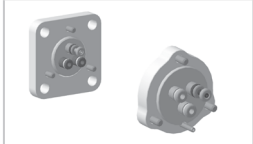
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Picture View

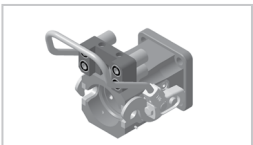

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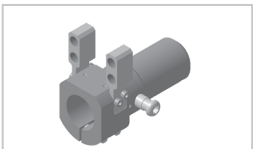

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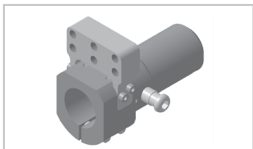

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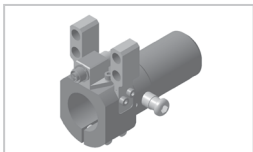

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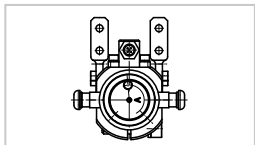

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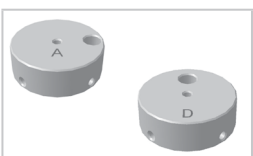

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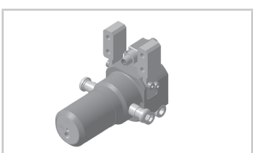

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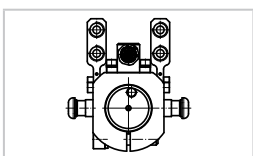

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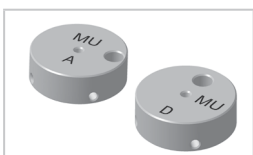

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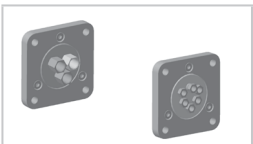

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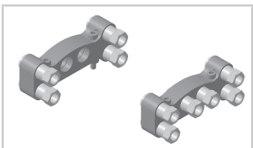

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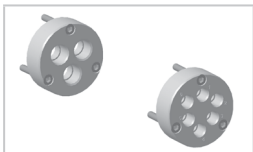

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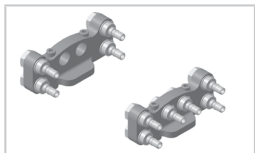

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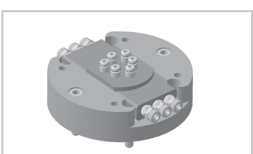

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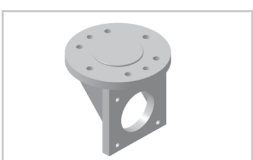

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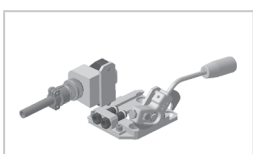

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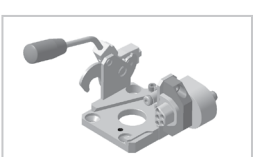

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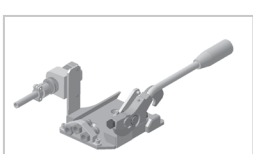

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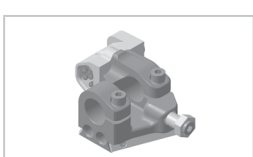

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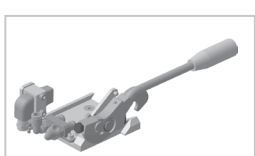

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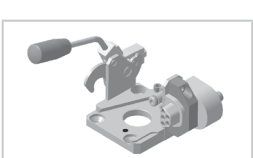

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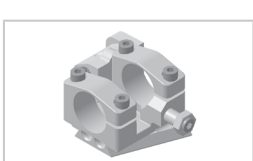

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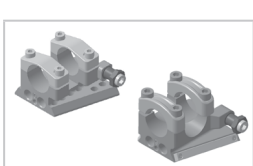

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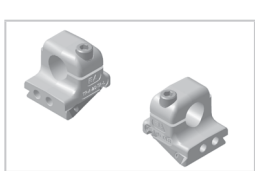

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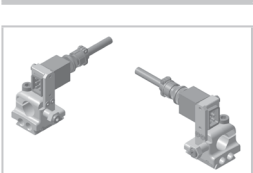

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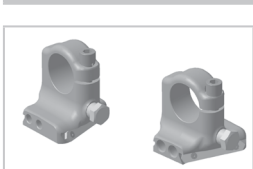

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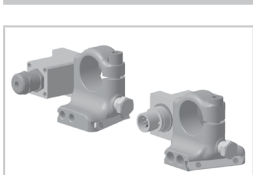

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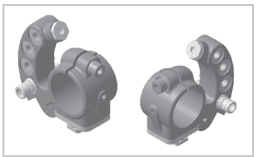
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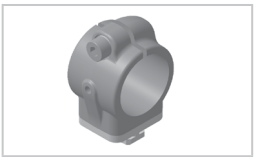
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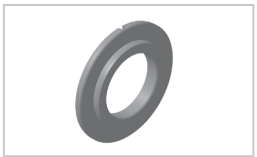
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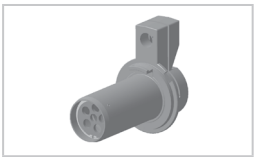
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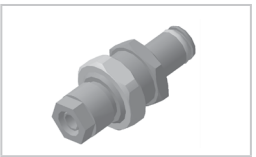
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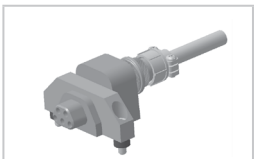

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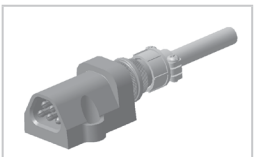

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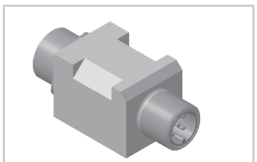

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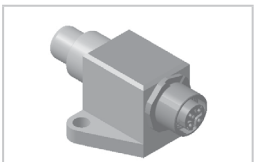

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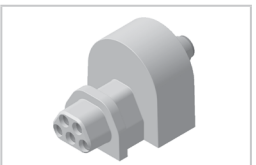

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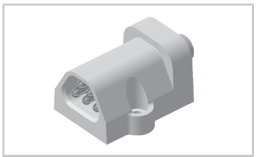

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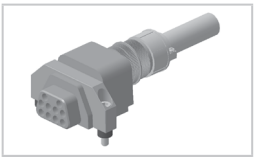

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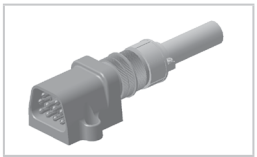

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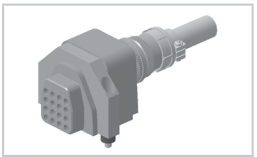

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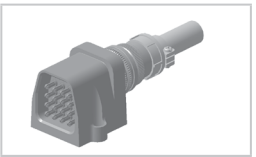

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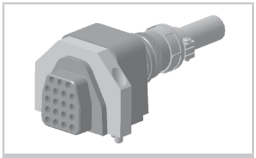

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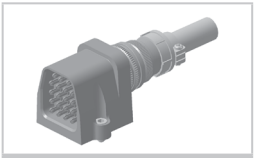

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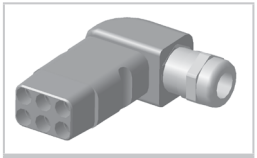

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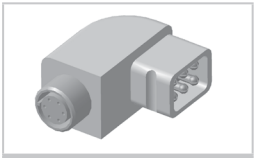

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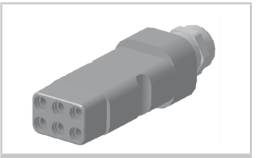

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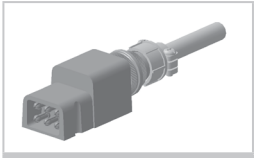

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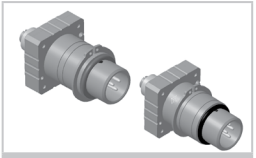

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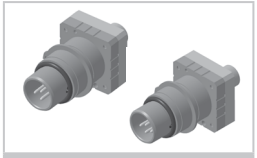

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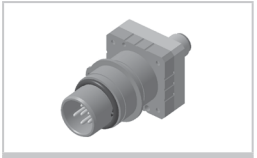

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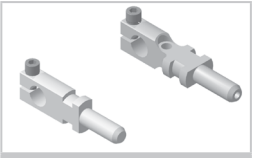

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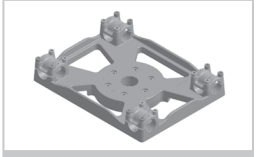

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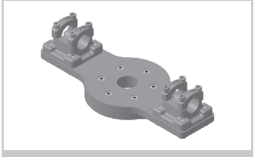

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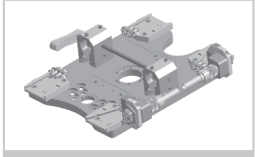

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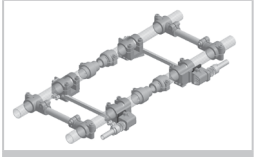

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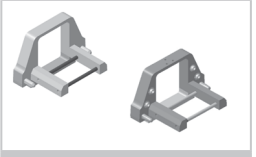

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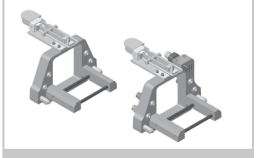

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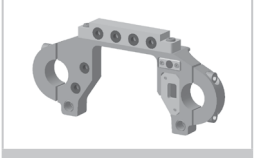

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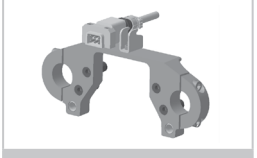

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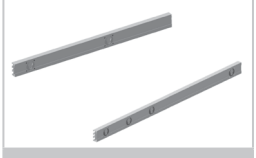

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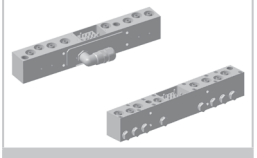

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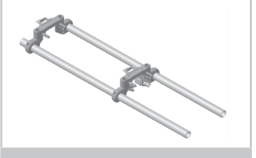

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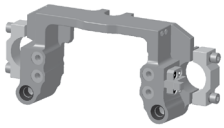
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Picture View



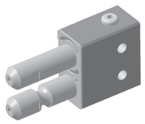
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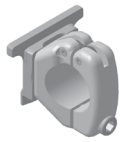
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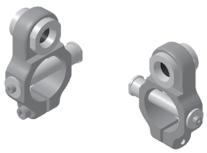
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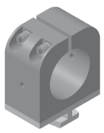
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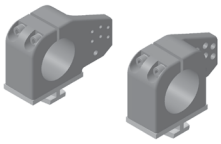
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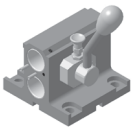
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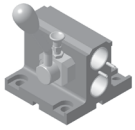
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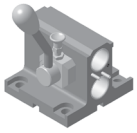
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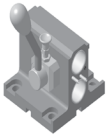
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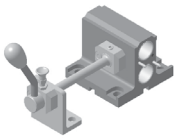
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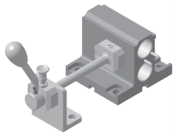
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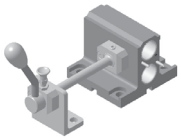
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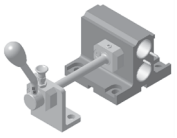
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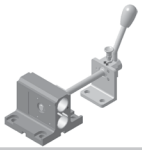
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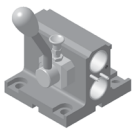
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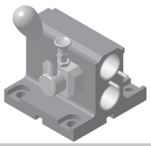
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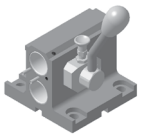
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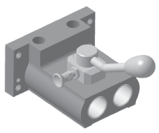
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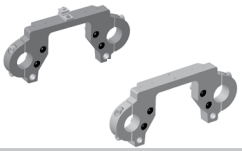
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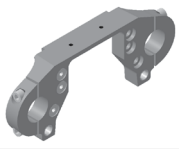
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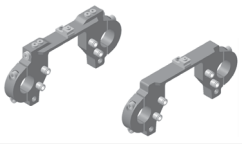
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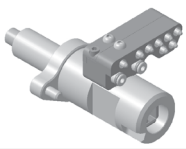
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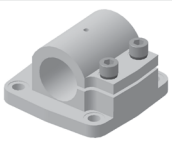
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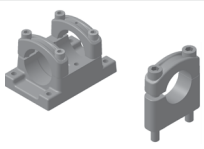
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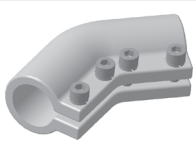
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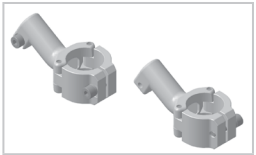
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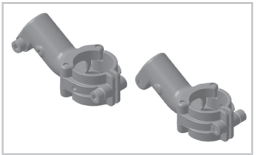
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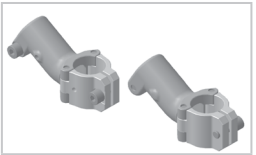
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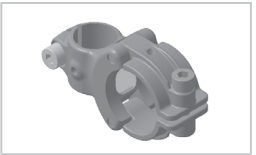
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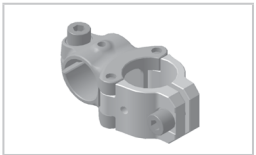

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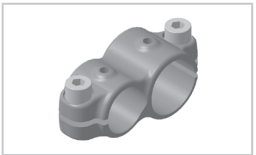

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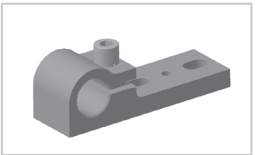

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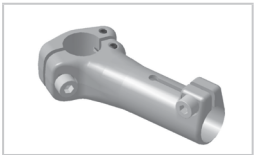

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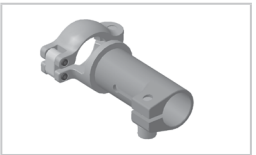

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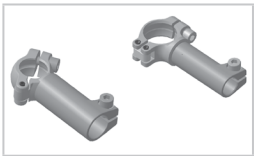

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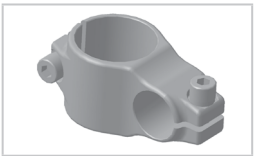

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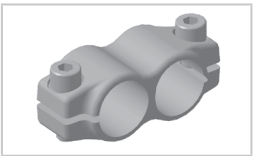

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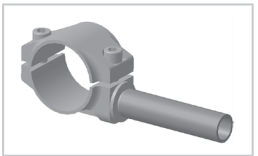

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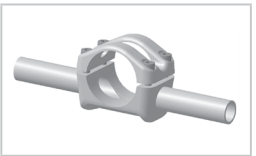

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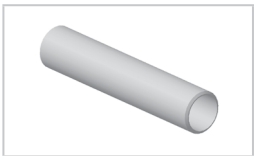

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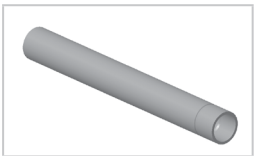

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Page 213 SLS

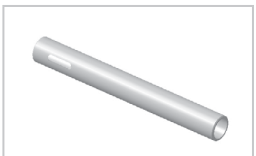

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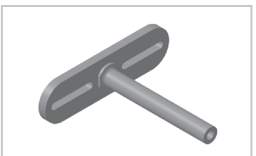

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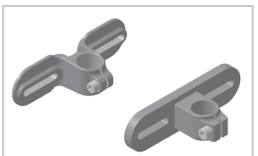

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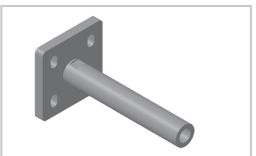

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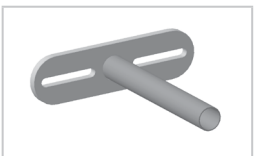

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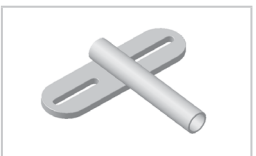

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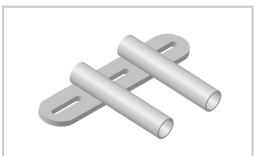

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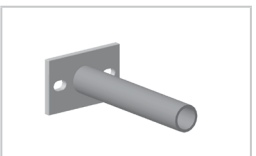

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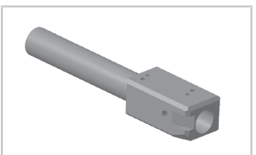

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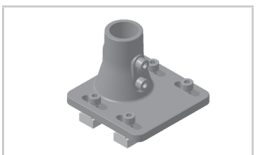

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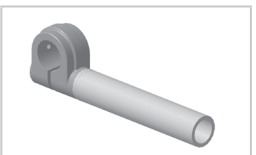

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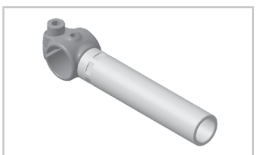

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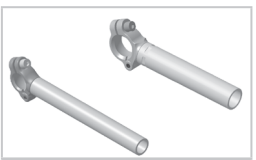

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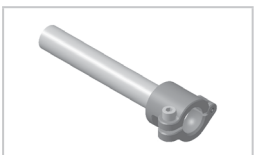

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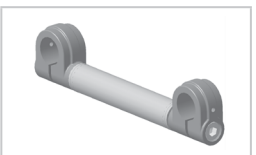

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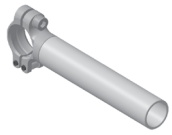
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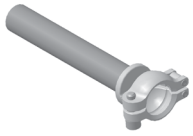
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Picture View



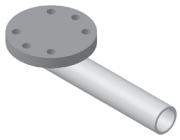
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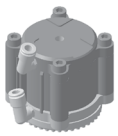
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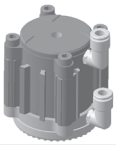
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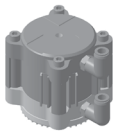
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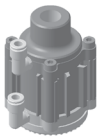
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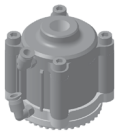
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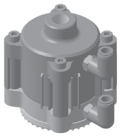
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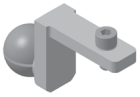
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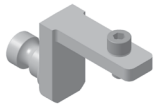
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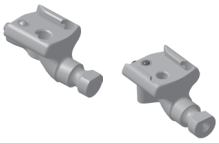
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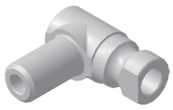
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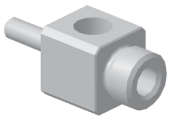
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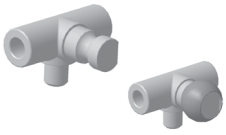
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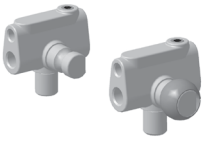
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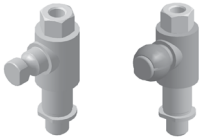
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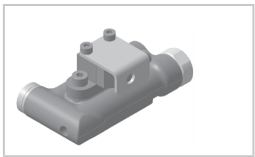
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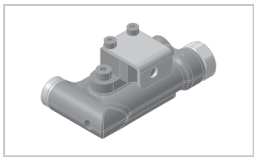
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Picture View


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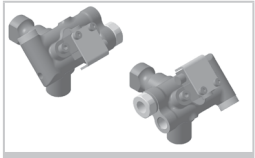

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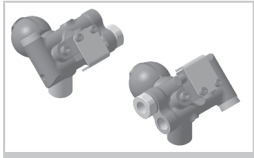

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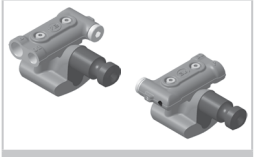

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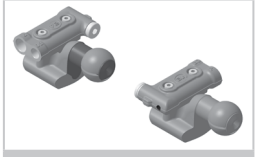

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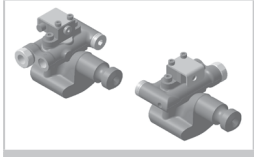

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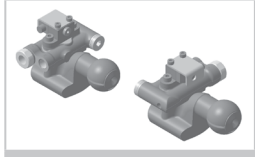

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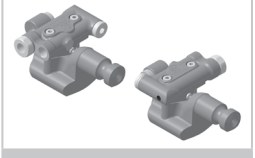

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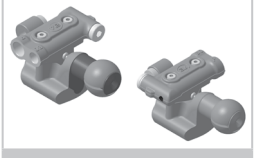

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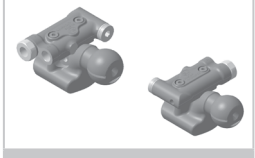

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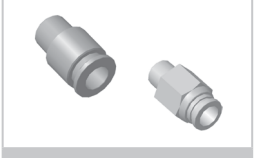

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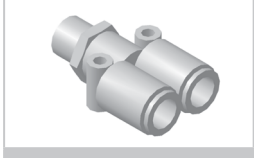

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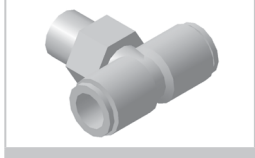

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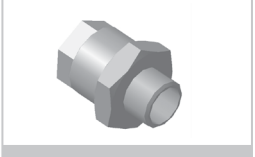

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Page 308 KQ2U / QSY


Page 309 KQ2T / QST

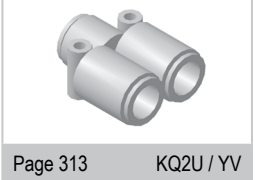

Page 310 GEV


Page 310-311 TEVDZ / TVB

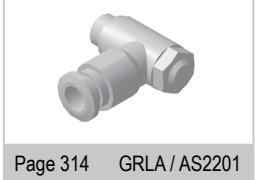

Page 311 WEVD

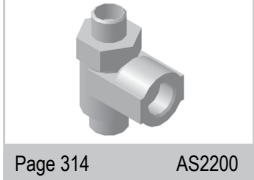

Page 312 KQ2H / QS

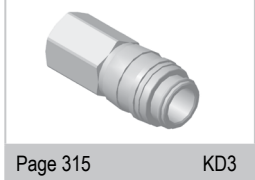

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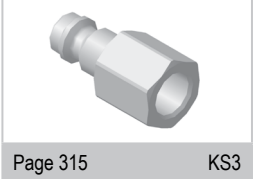

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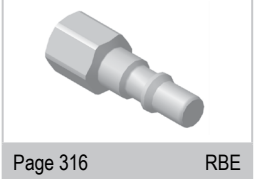

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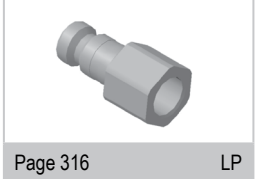

Page 314 GRLA / AS2201

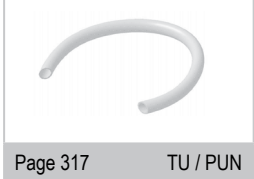

Page 314 AS2200

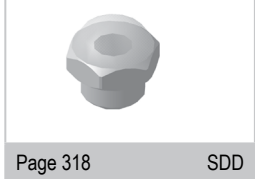

Page 315 KD3


Page 315 KS3


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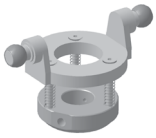
Picture View



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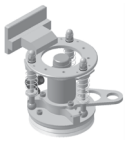
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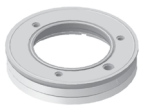
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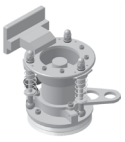
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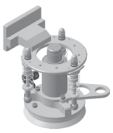
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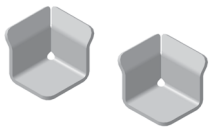
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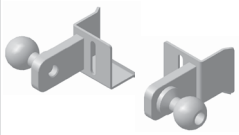
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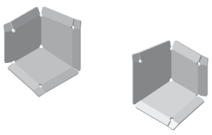
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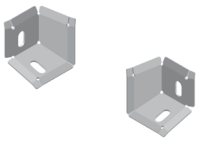
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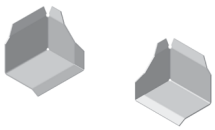
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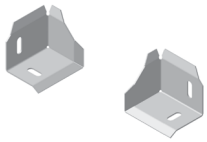
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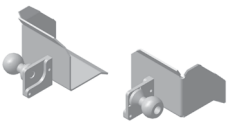
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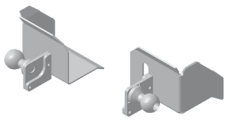
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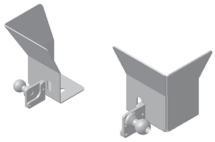
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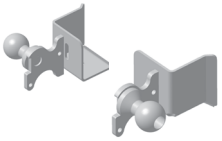
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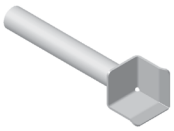
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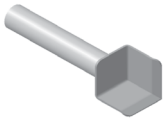
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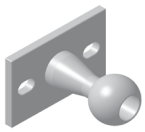
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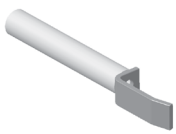
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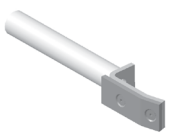
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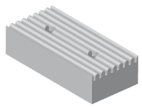
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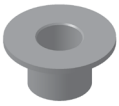
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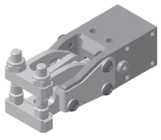
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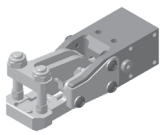
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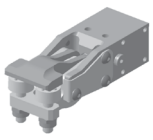
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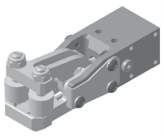
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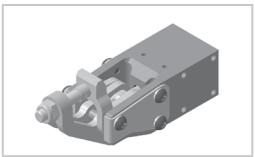
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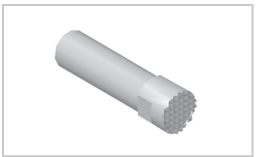
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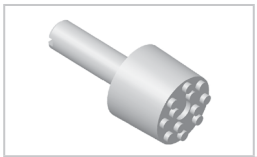
Picture View



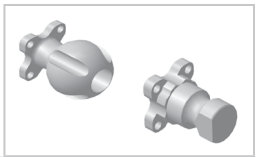
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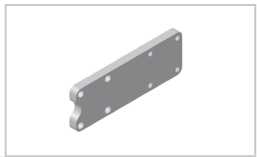
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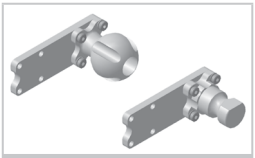
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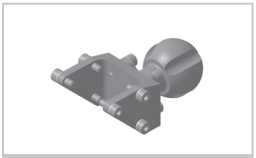
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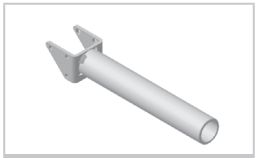
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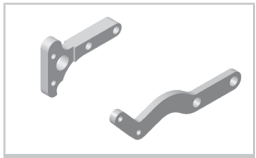
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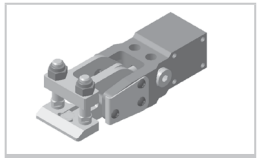
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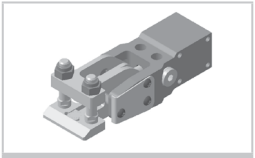
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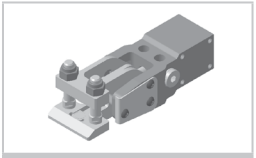
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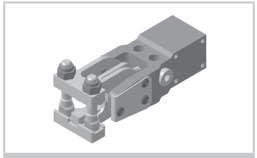
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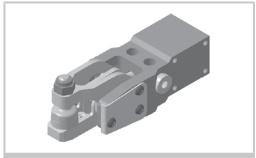
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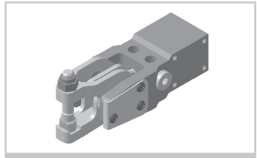
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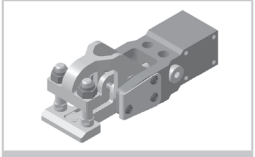
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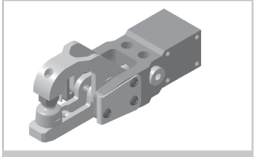
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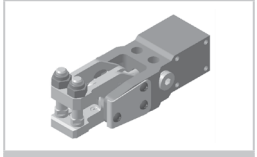
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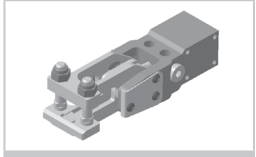
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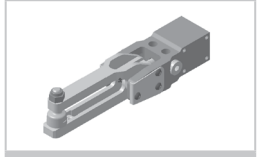
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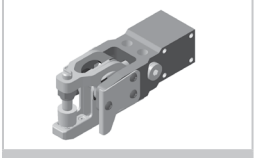
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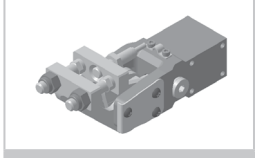
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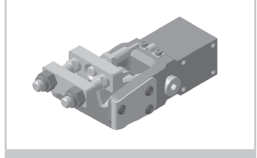
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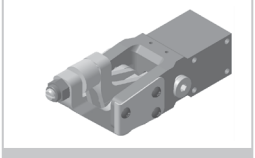
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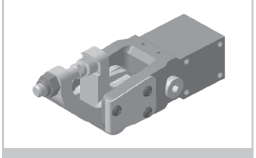
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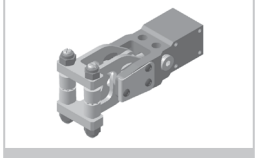
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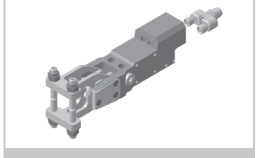
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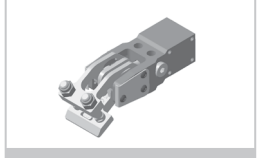
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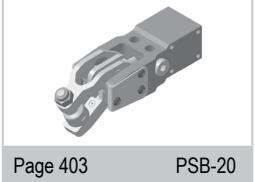
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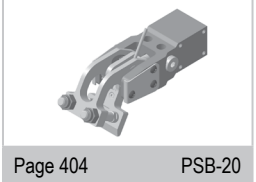
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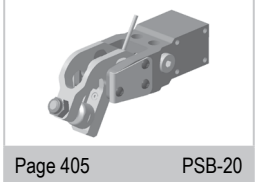
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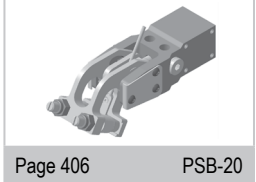
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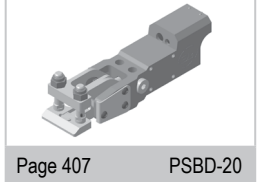
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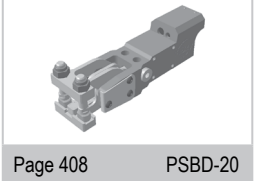
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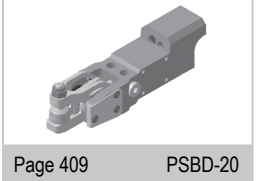
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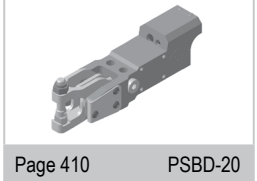
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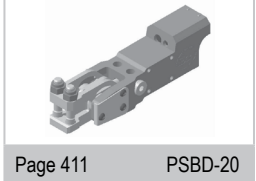
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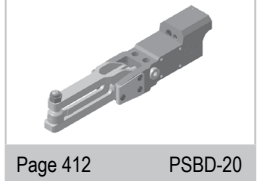
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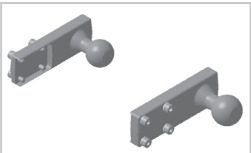
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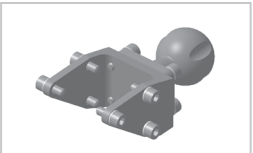
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Edition **01 / 2023 - 2024 Standard**

Picture View



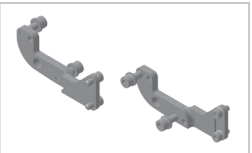
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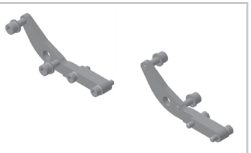
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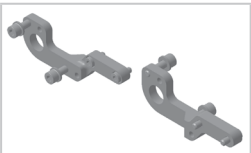
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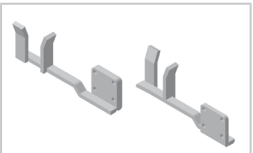
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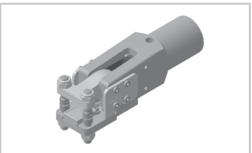
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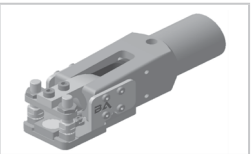
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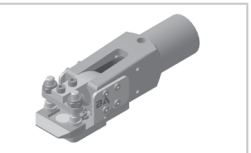
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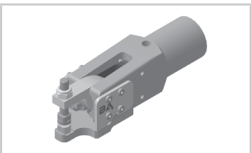
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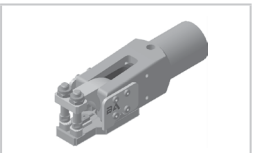
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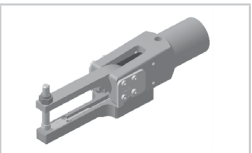
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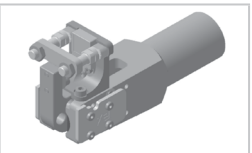
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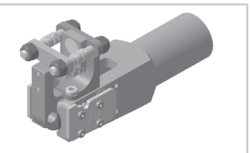
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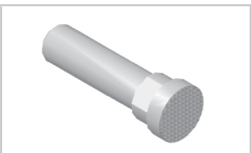
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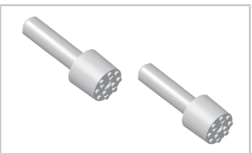
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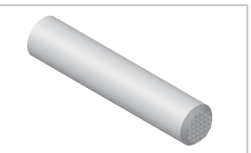
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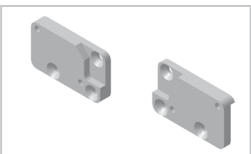
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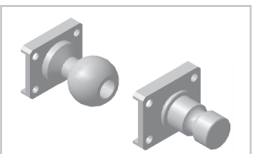
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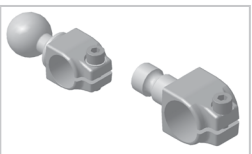
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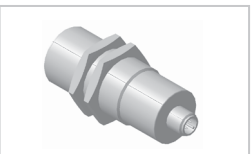
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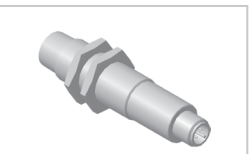
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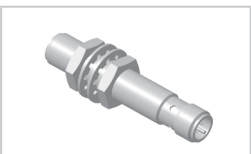
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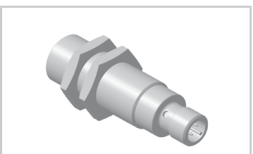
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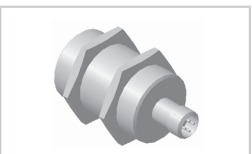
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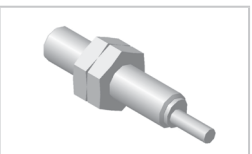
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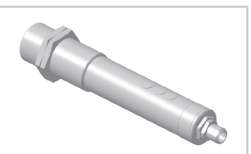
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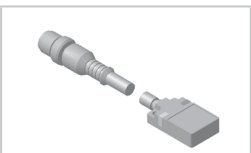
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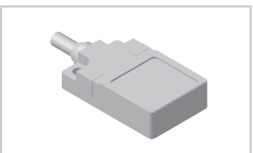
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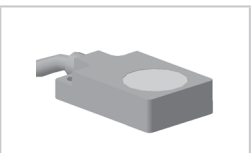
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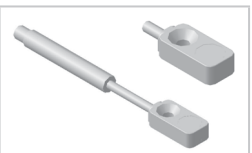
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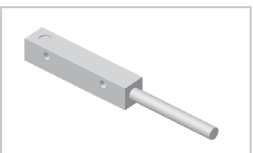
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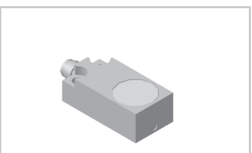
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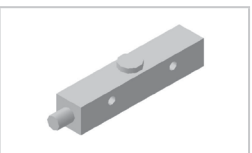
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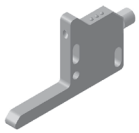
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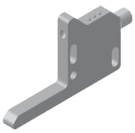
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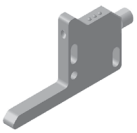
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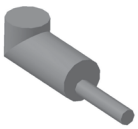
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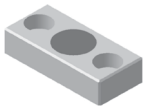
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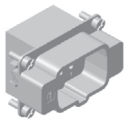
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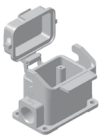
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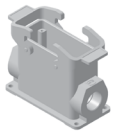
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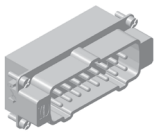
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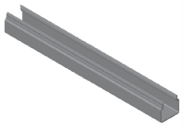
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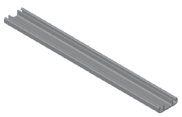
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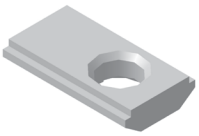
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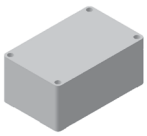
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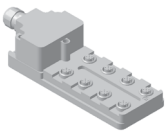
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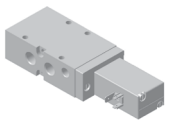
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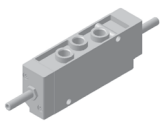
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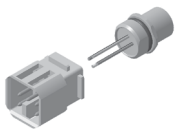
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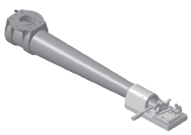
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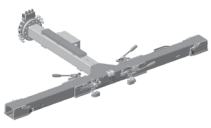
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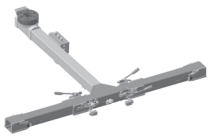
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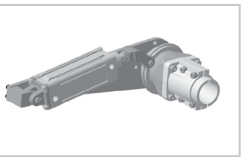
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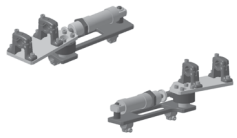
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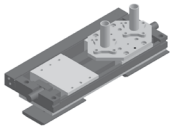
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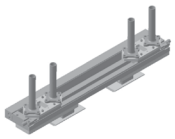
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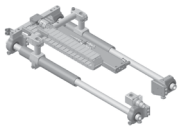
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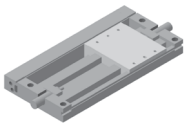
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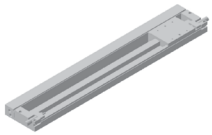
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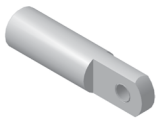
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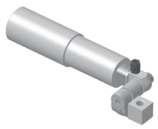
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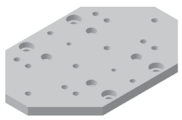
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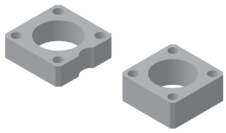
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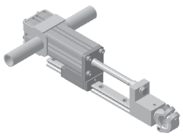
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Page 508 GRS



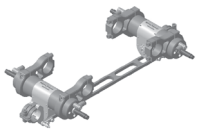
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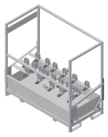
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Page 512 VSG



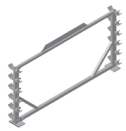
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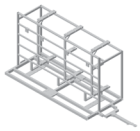
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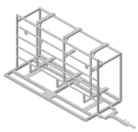
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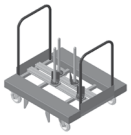
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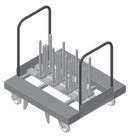
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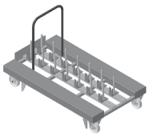
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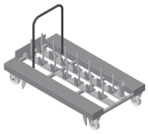
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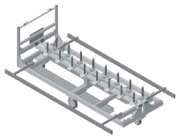
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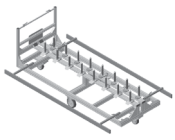
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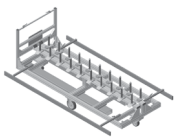
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Page 529 TC



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Page 533 TH

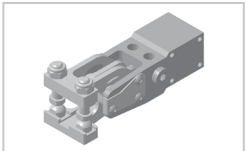
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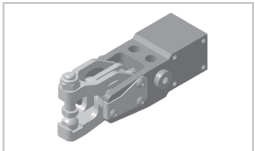
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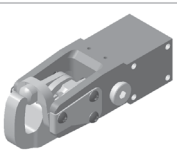
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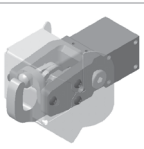
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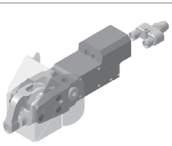
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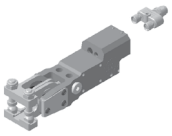

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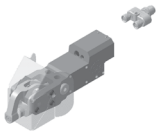

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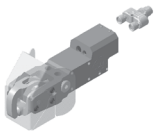

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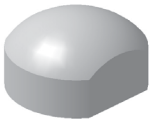

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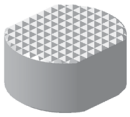

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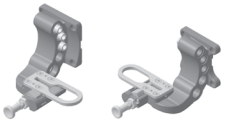

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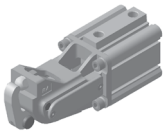

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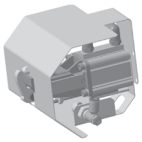

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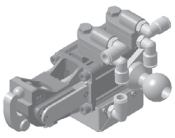

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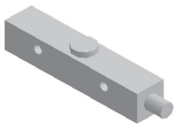

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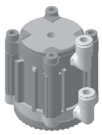

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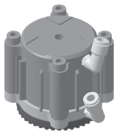

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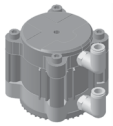

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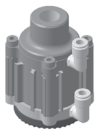

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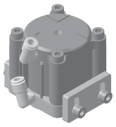

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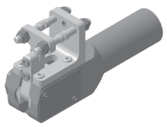

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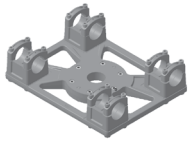

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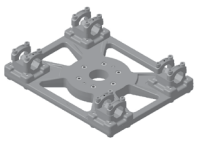

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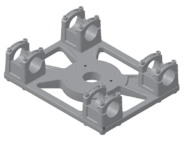

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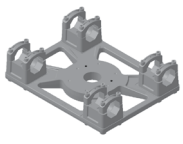

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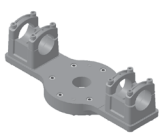

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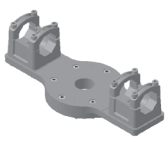

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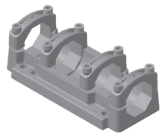
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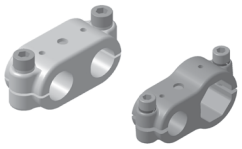
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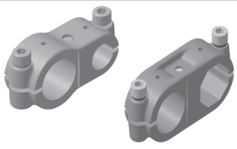
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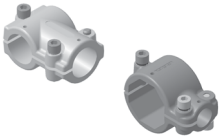
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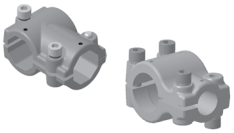
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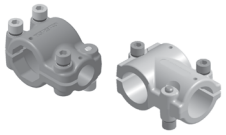
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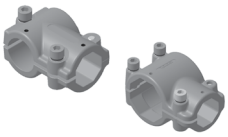
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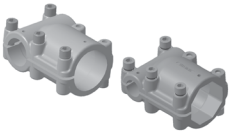
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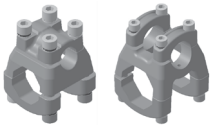
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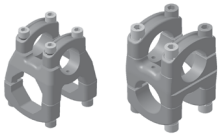
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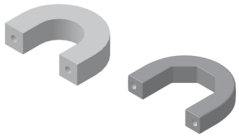
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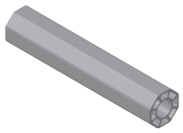
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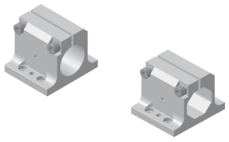
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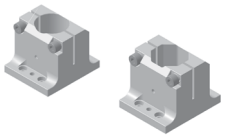
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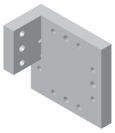
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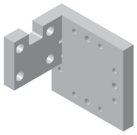
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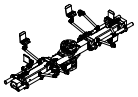
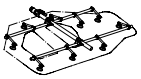
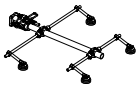
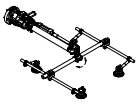
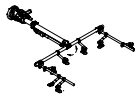
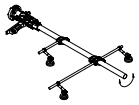
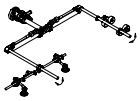
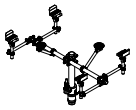
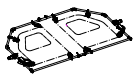
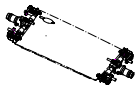
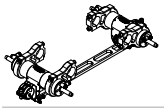
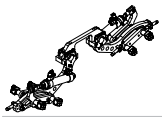
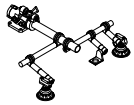
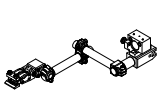
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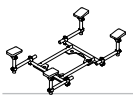
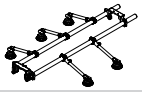
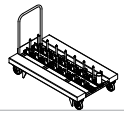
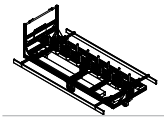
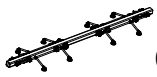
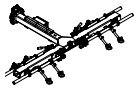
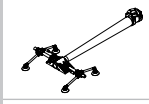
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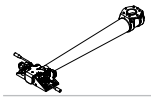
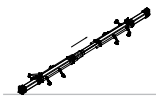
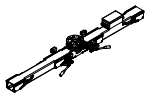
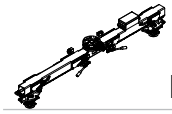
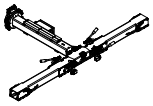
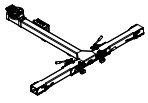
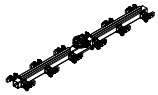
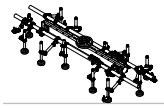
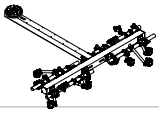
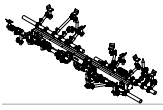
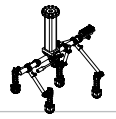
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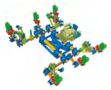
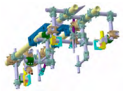
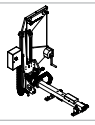
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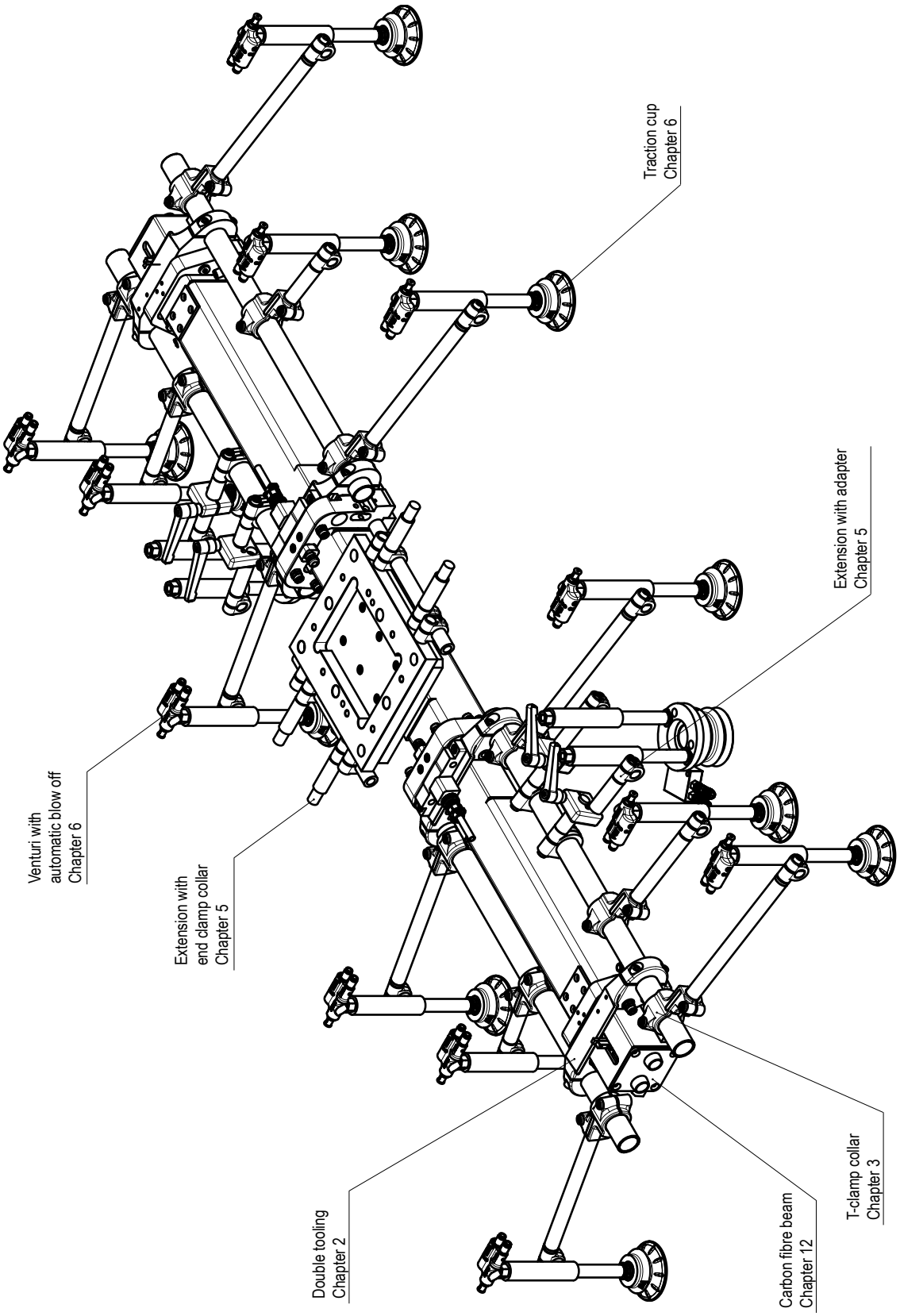
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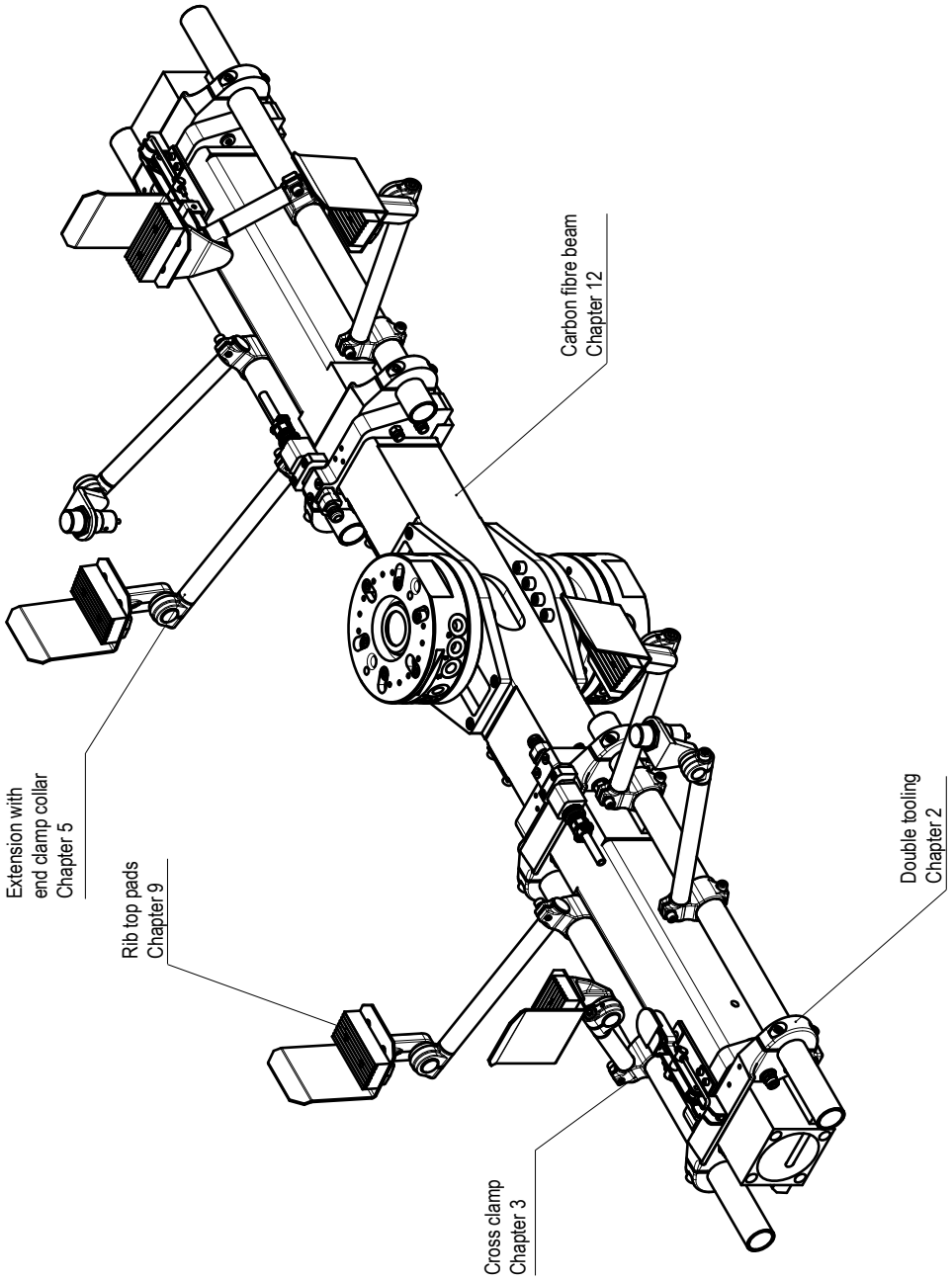
Carbon beam-Destacker



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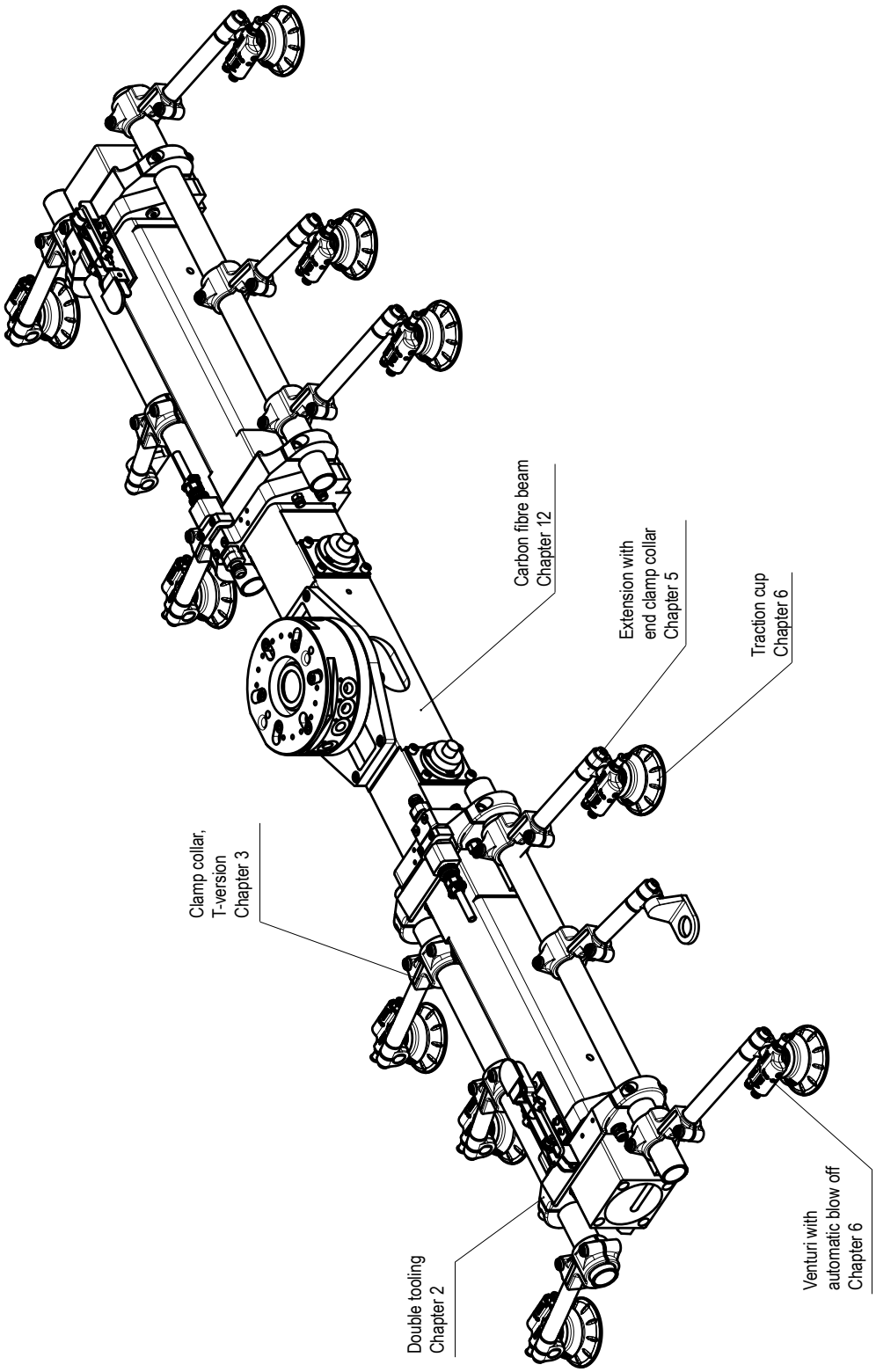
Carbon beam-Shuttle



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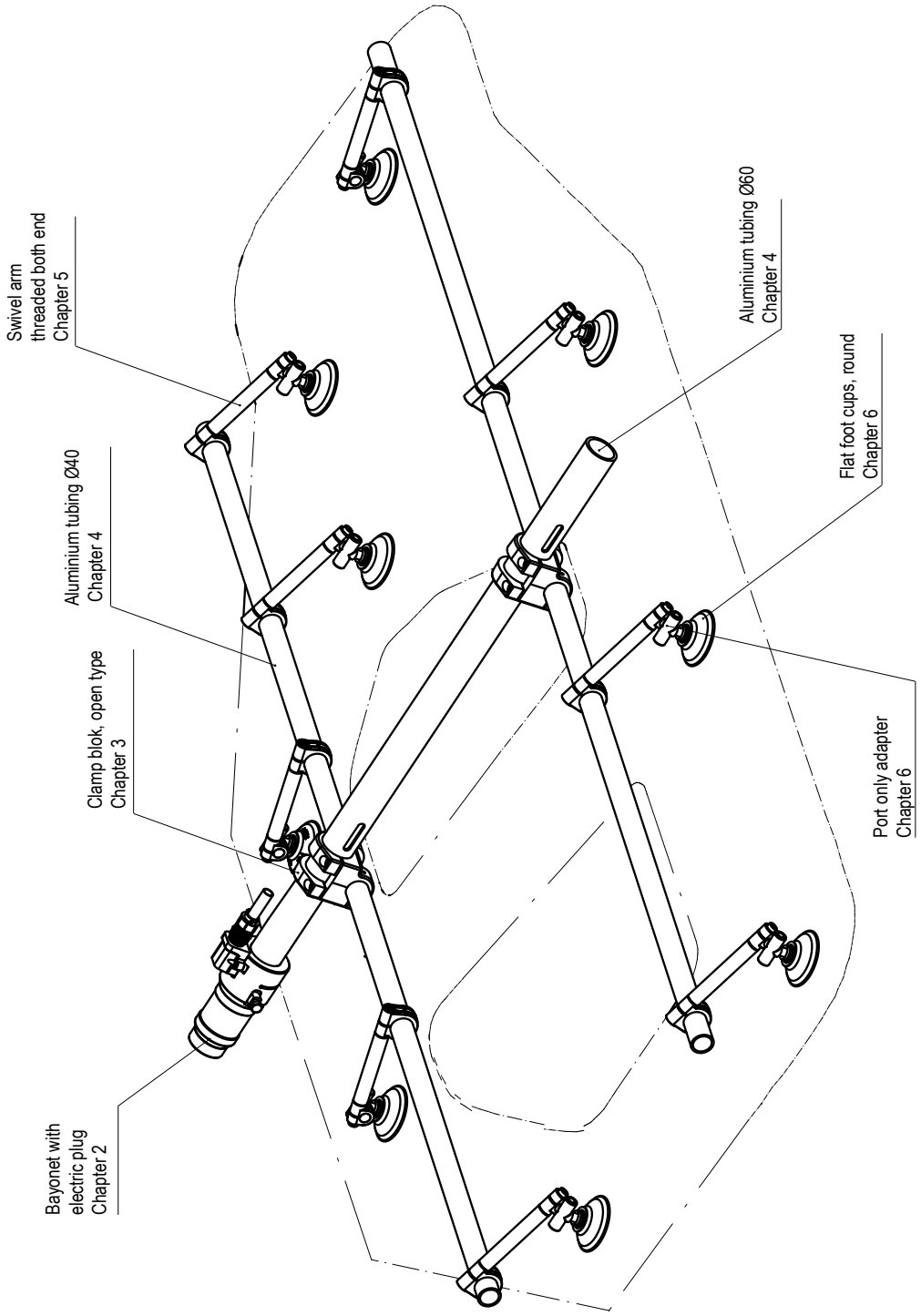
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Carbon beam-Centering robot



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Upper Tooling series 60

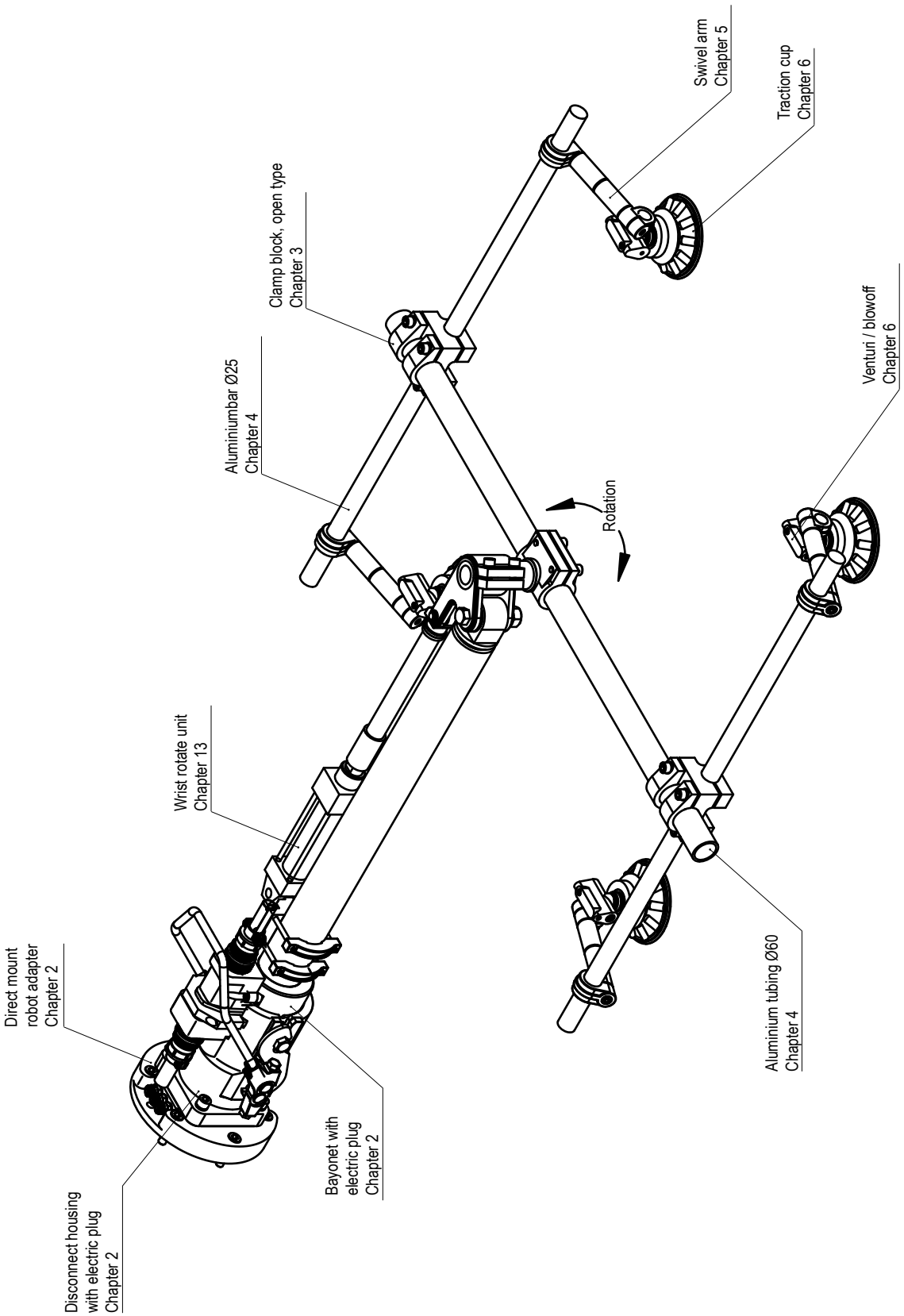


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Application

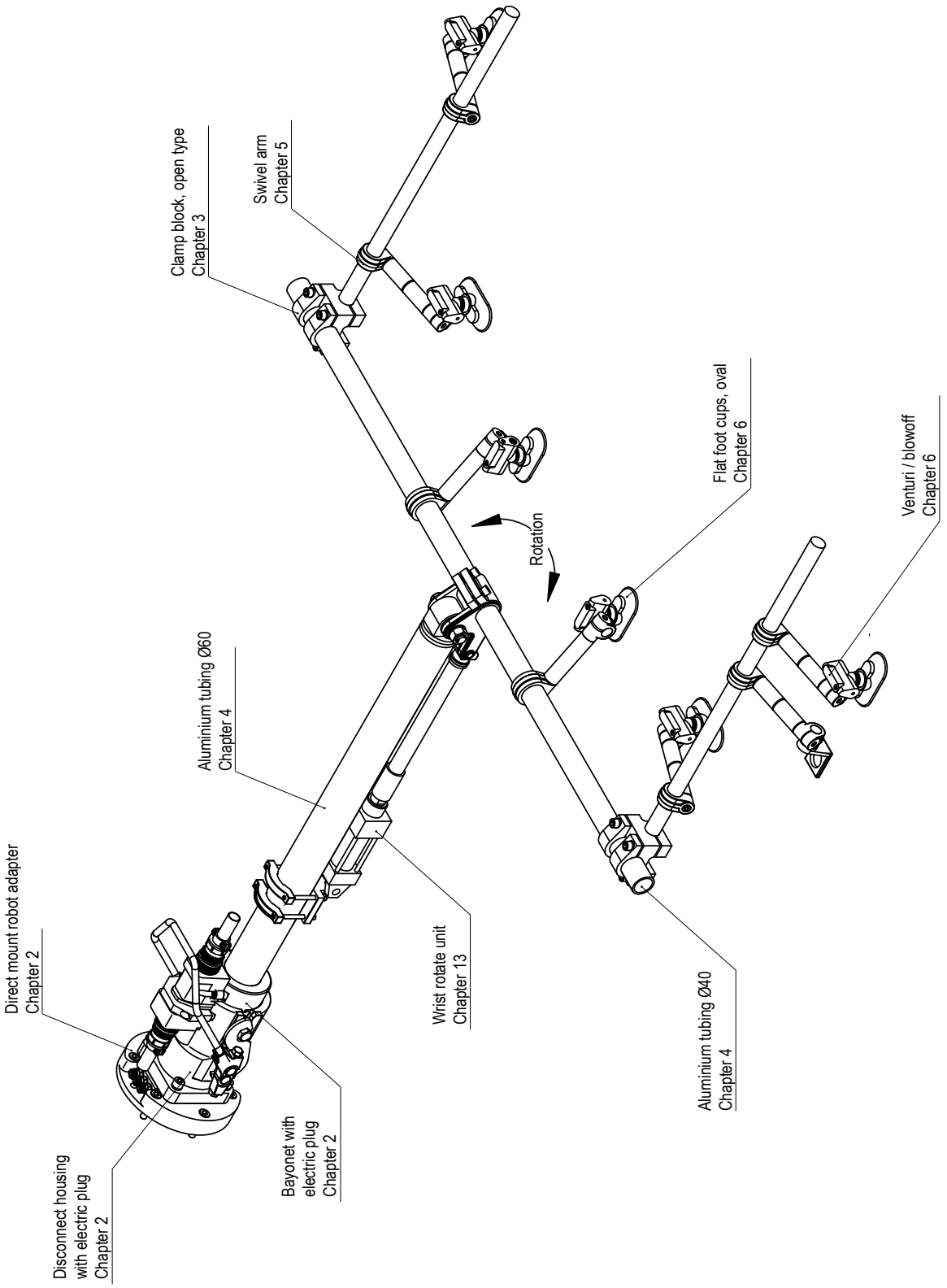
Upper Tooling series 60, 0 to 90° swivel



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Upper Tooling series 60, 0 to 90° tilt

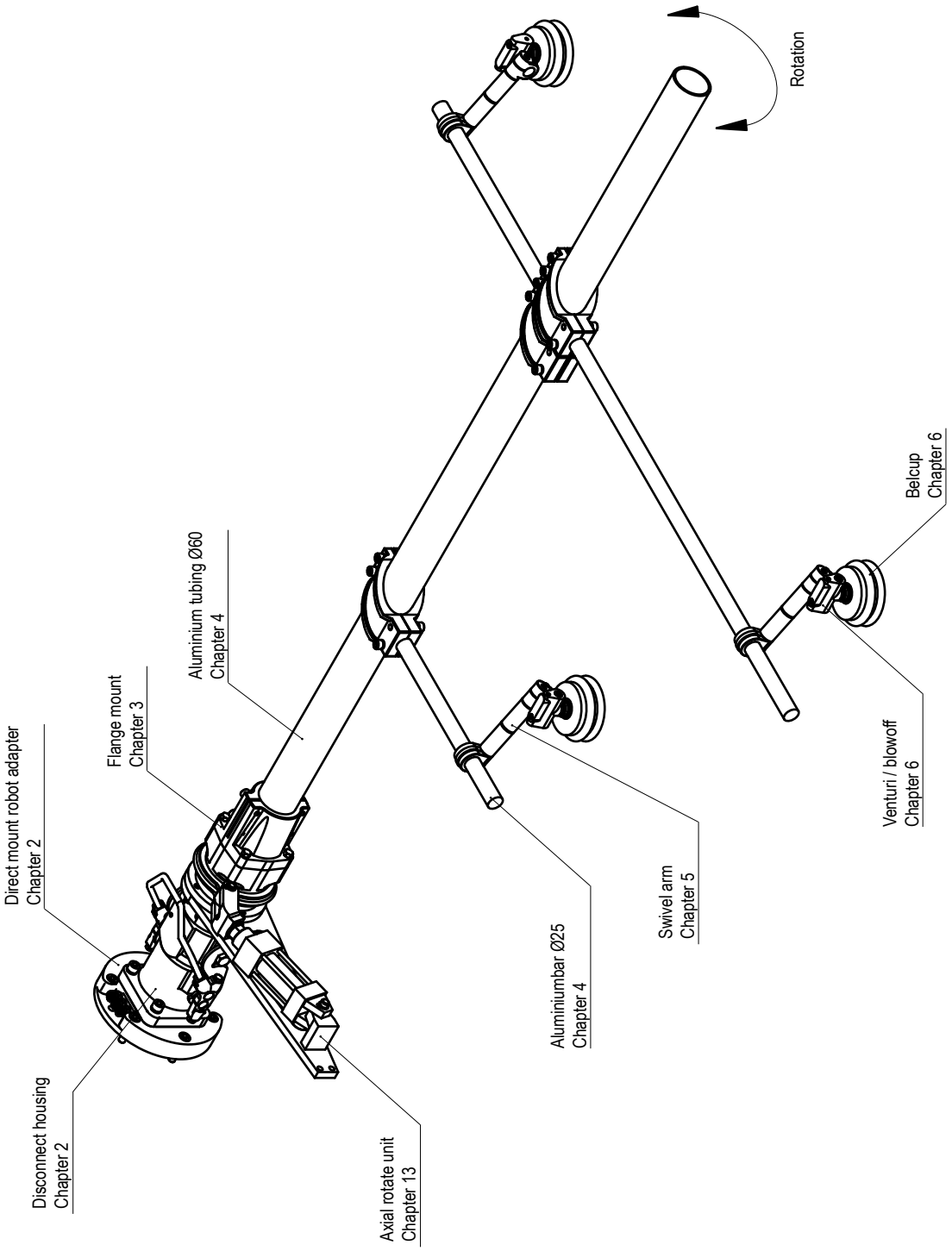


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Application

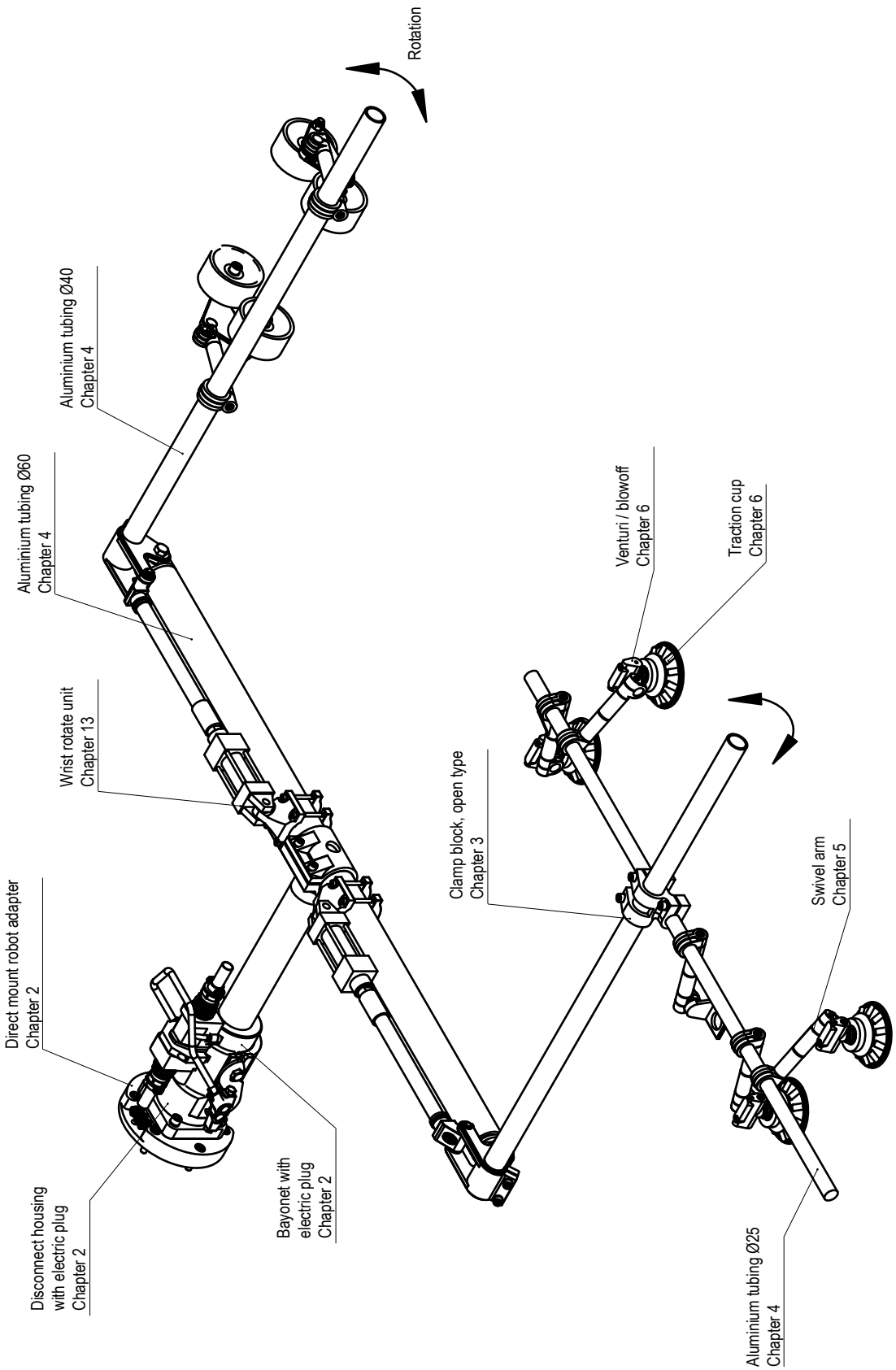
Upper Tooling series 60, 0 to 90° rotate



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Upper Tooling series 60 with two tilt axis

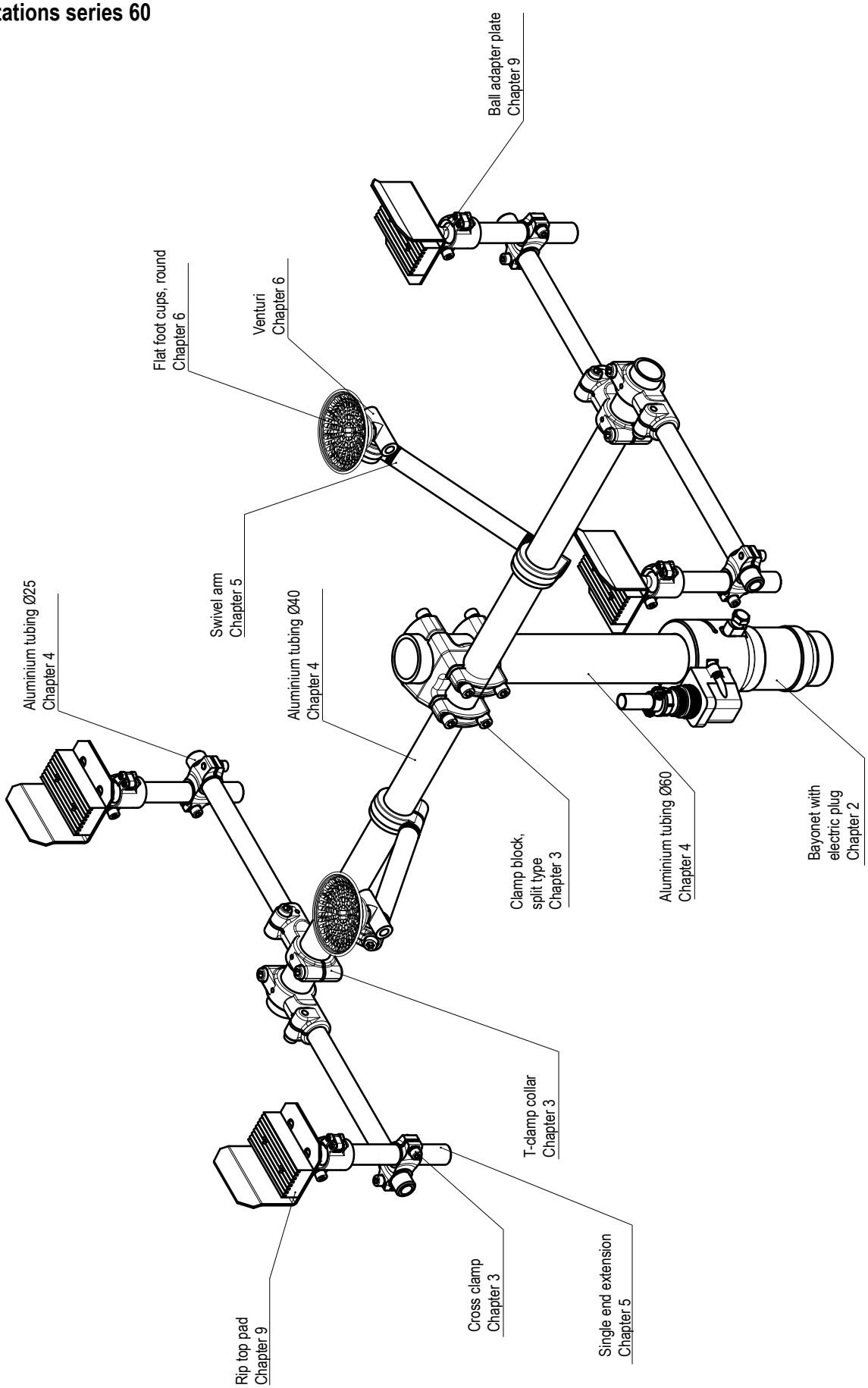


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Application

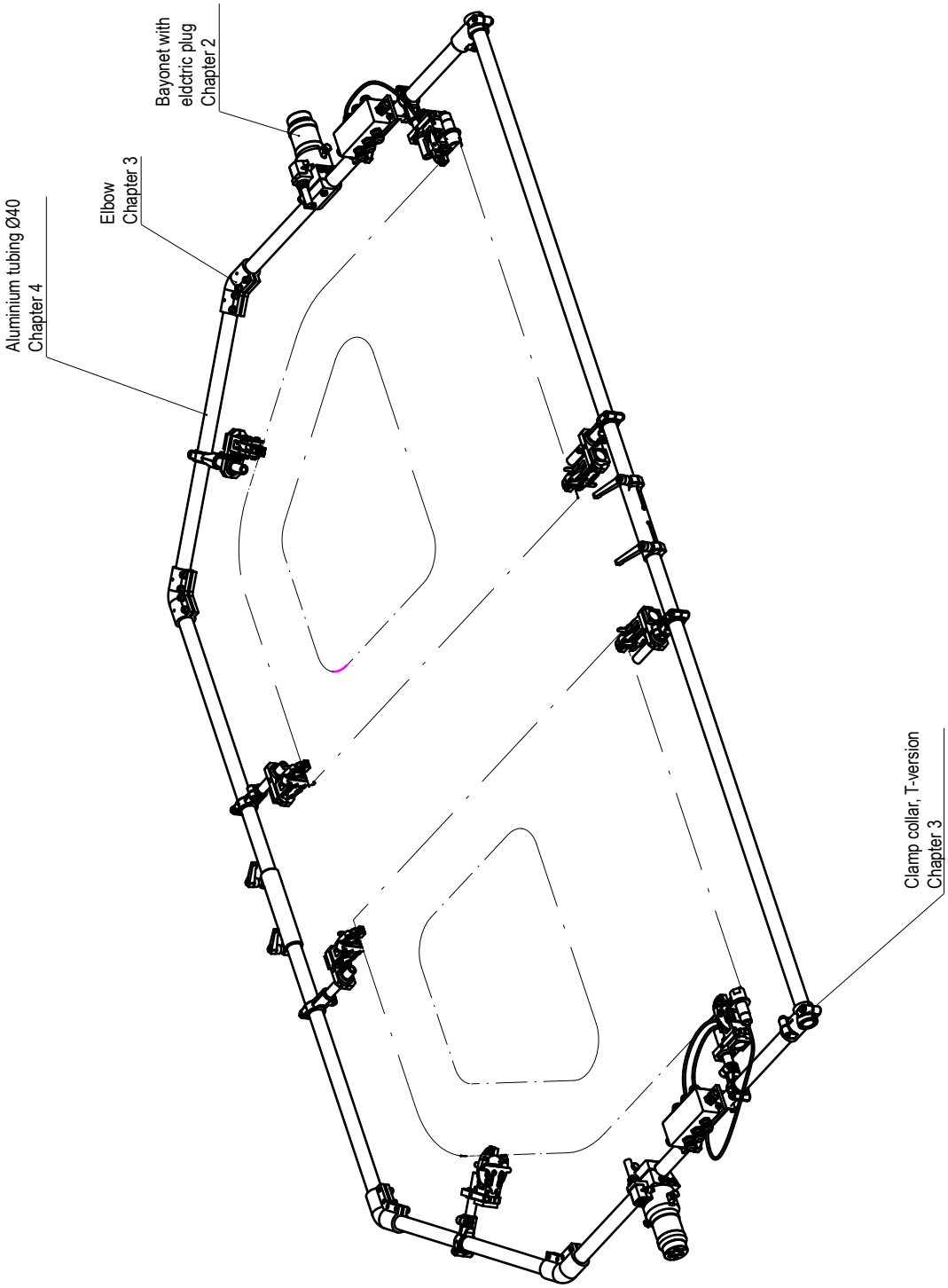
Floor stations series 60



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Turnover station series 60

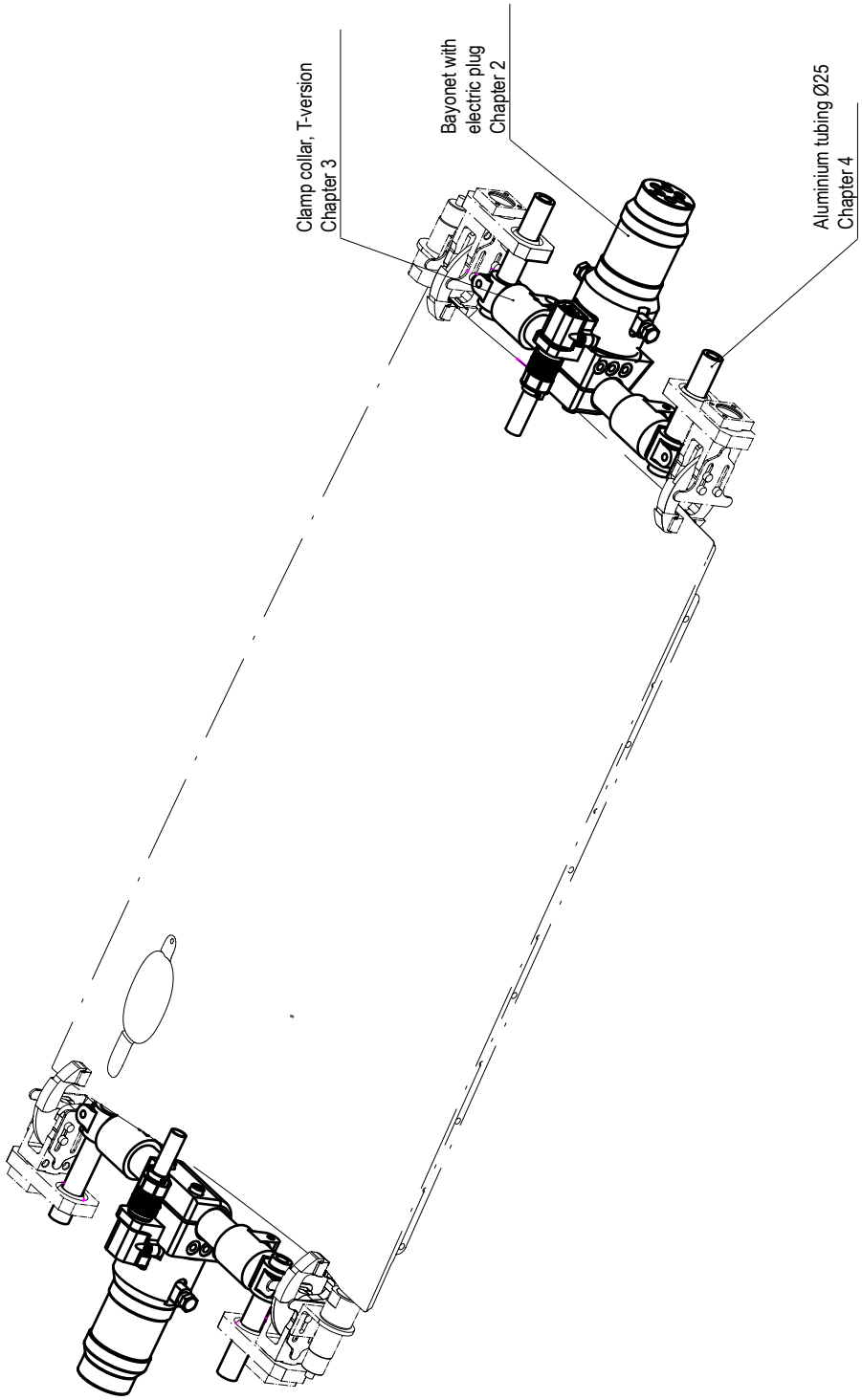


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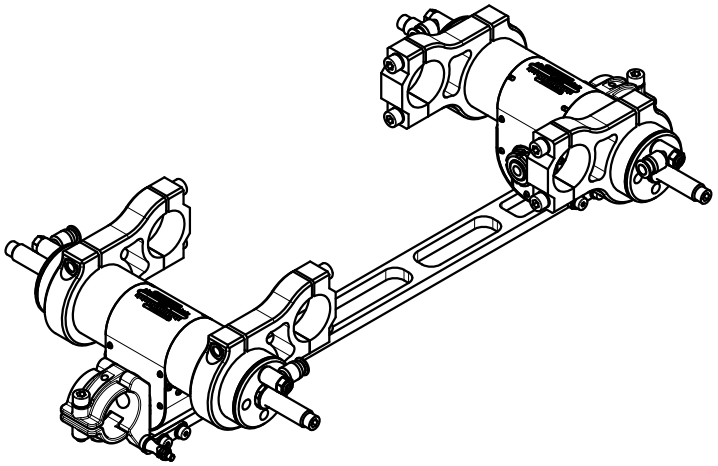
Application

Turnover station series 60

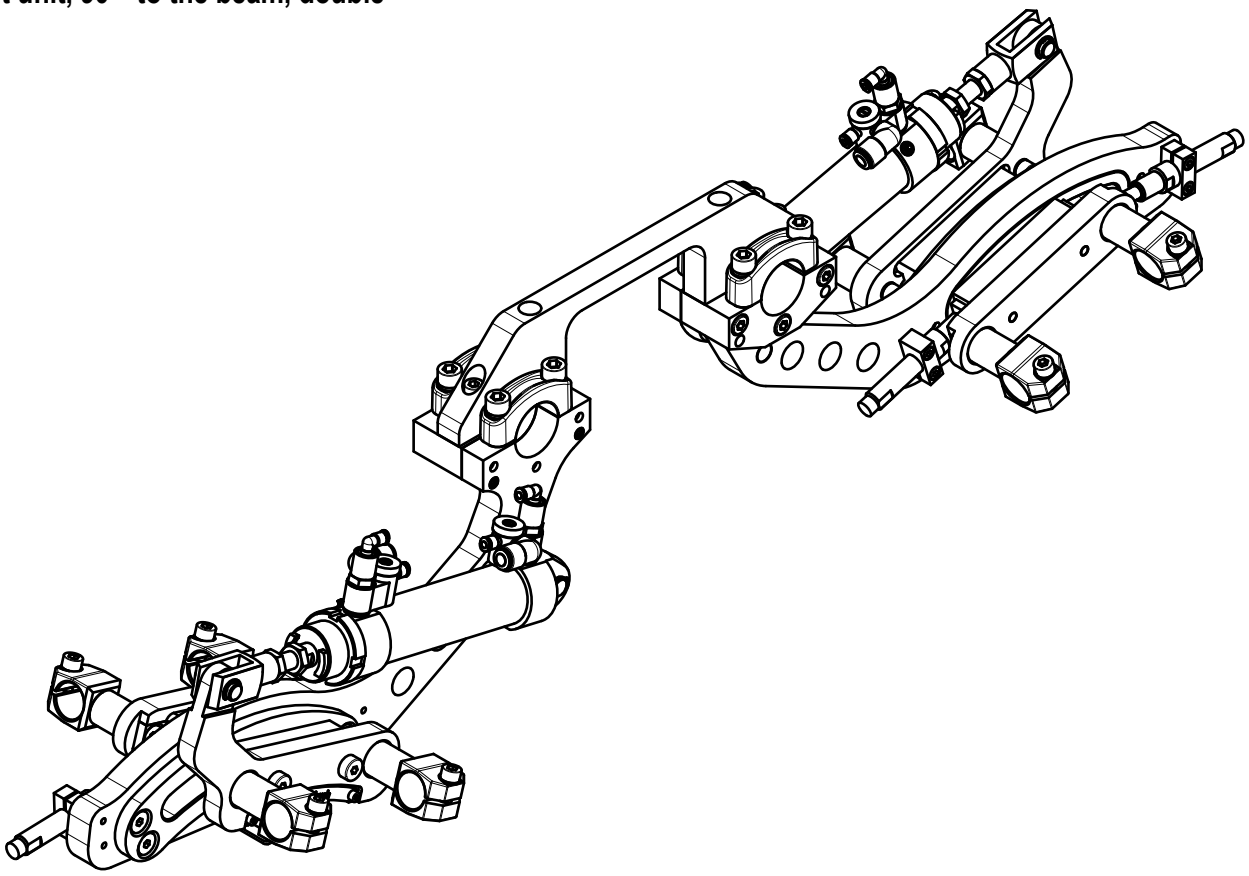


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Compact swivel unit for twin tooling



Tilt unit, 90 ° to the beam, double

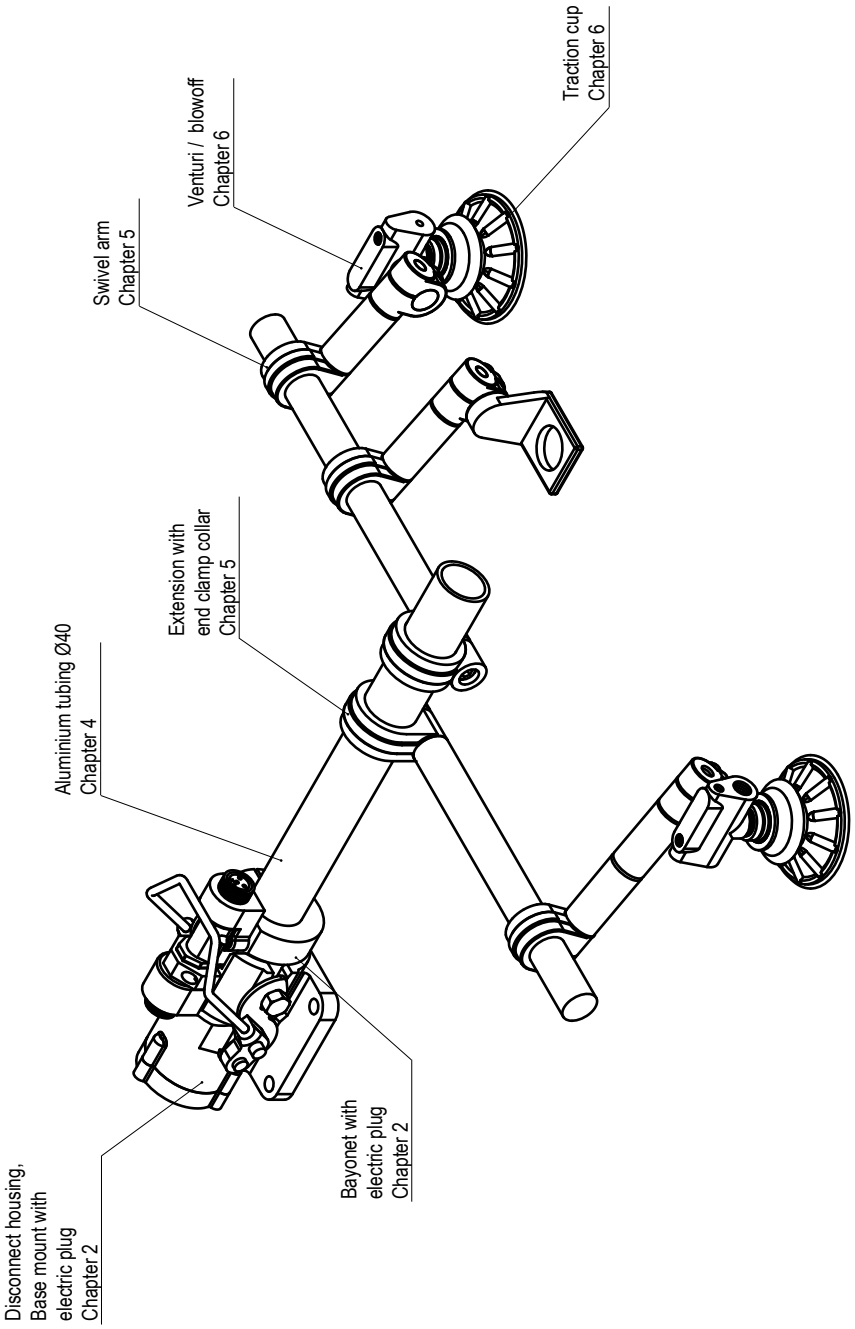


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Application

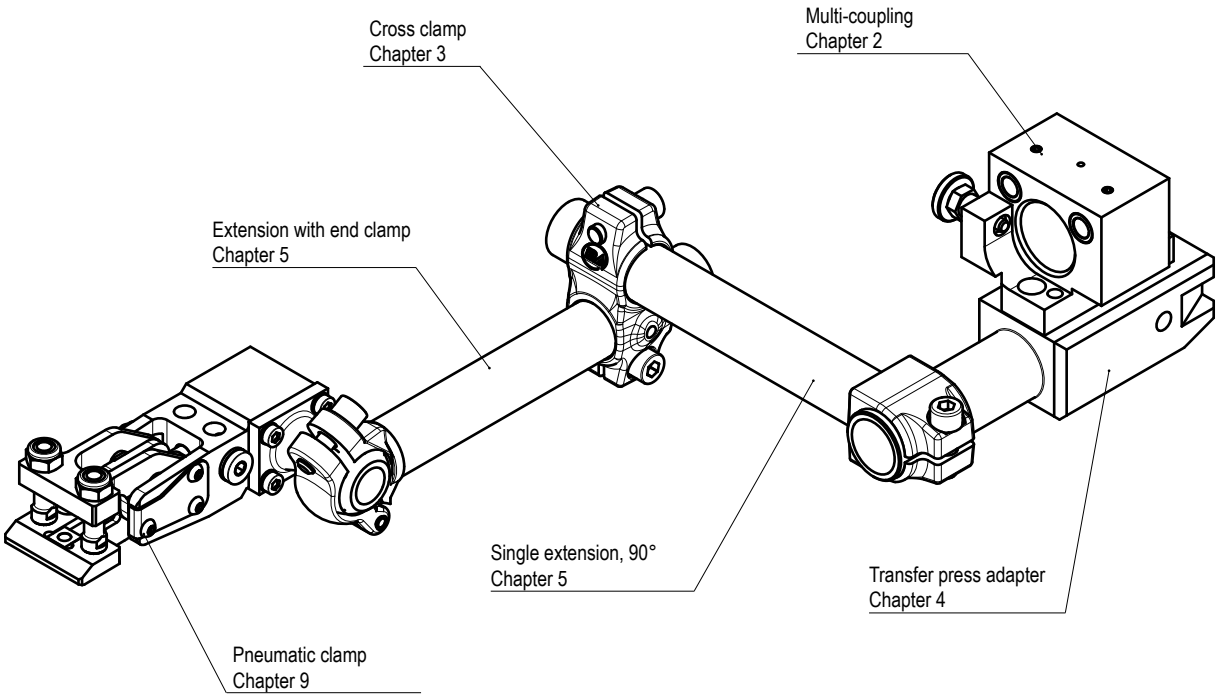
Upper Tooling series 40

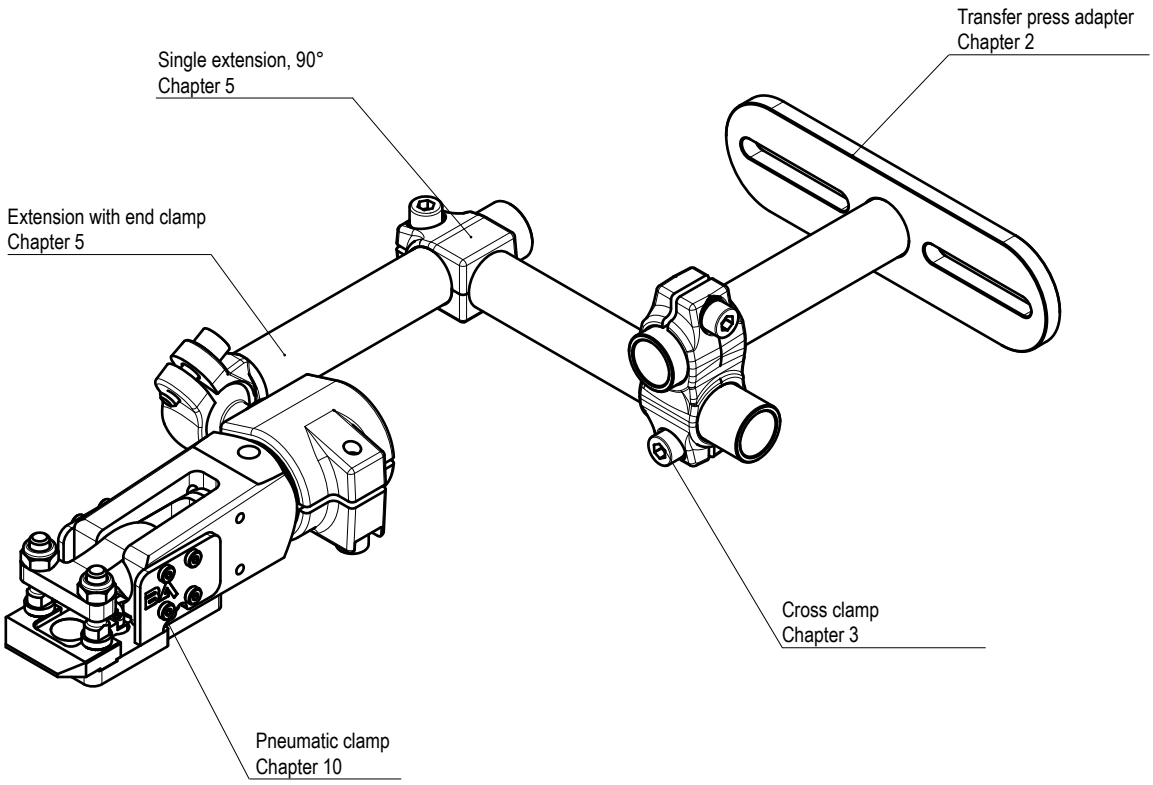


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Transfer press tooling series 25



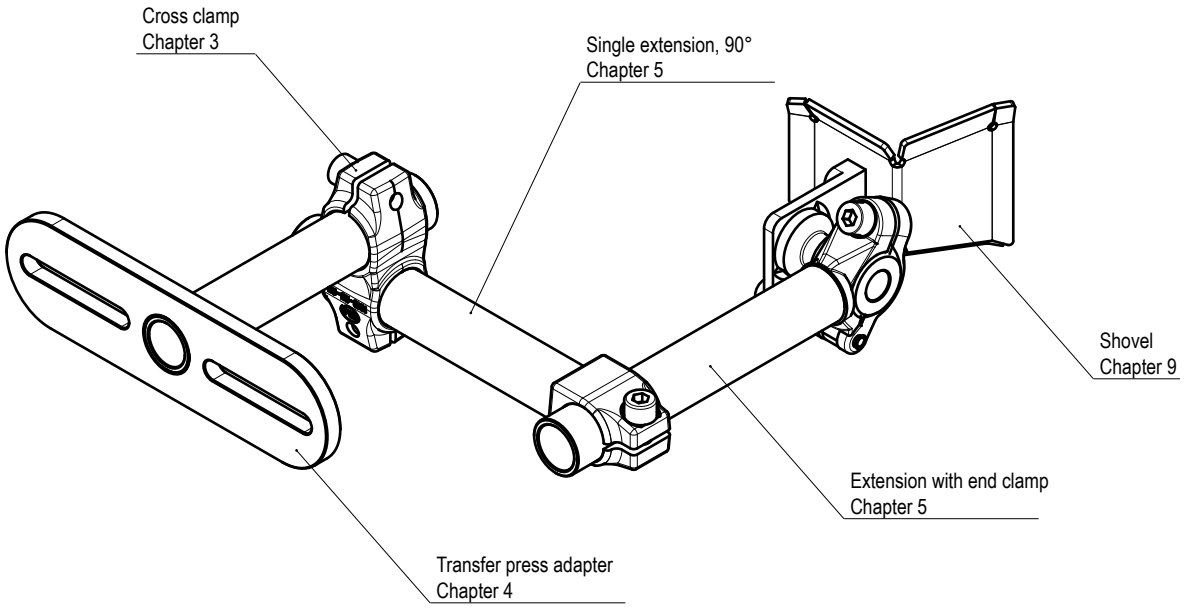


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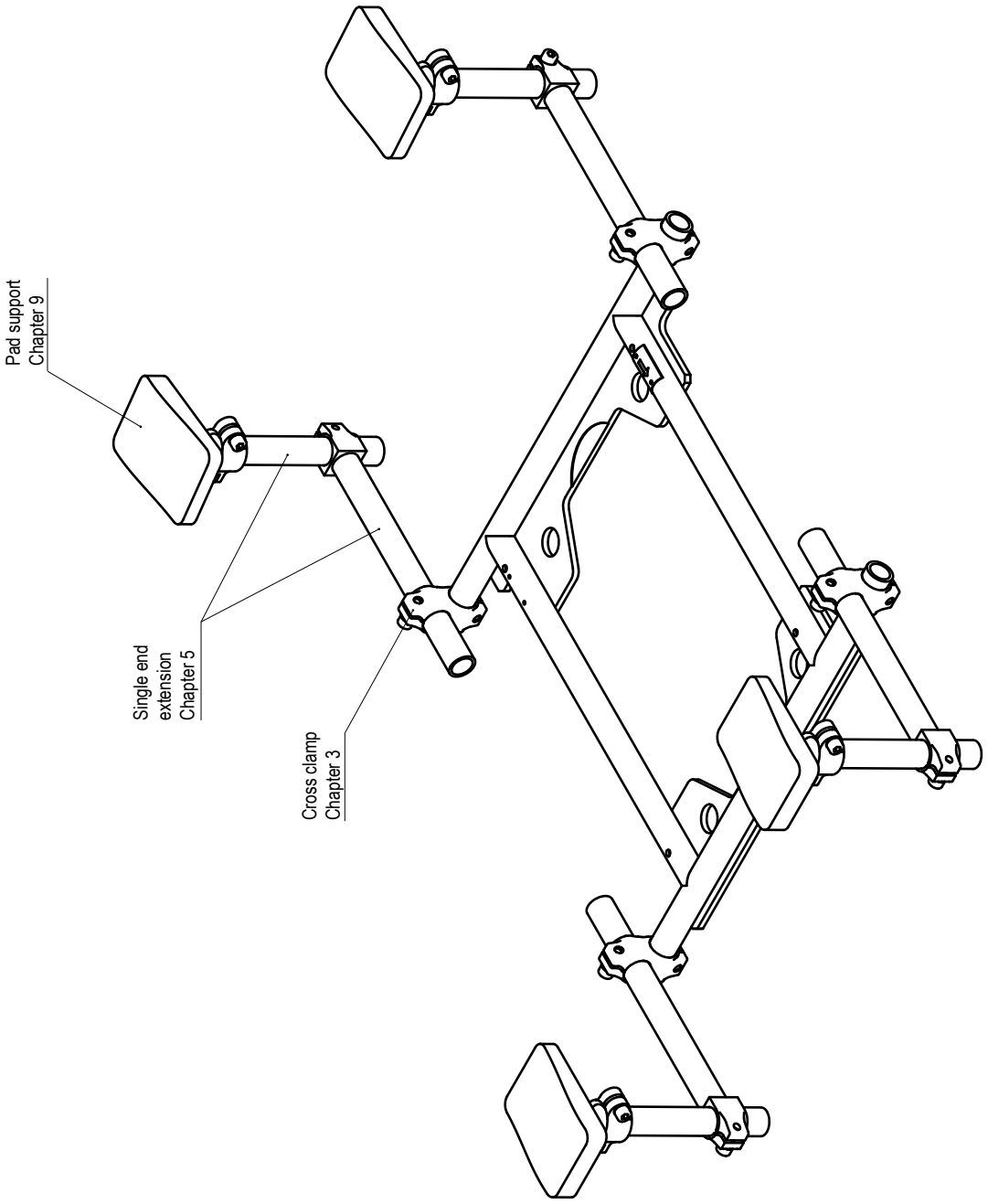
Application

Transfer press tooling series 25



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Floor station series 60

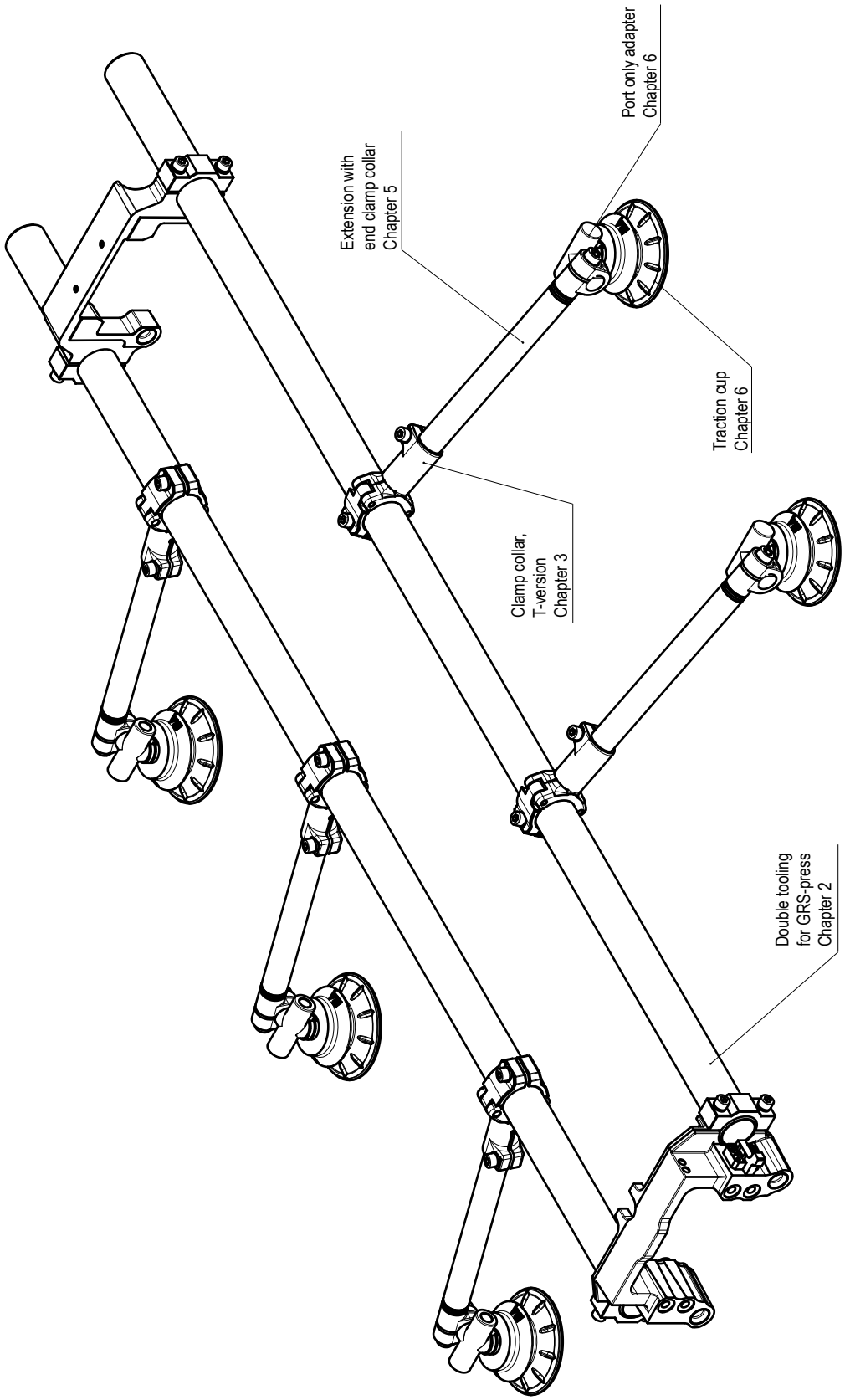


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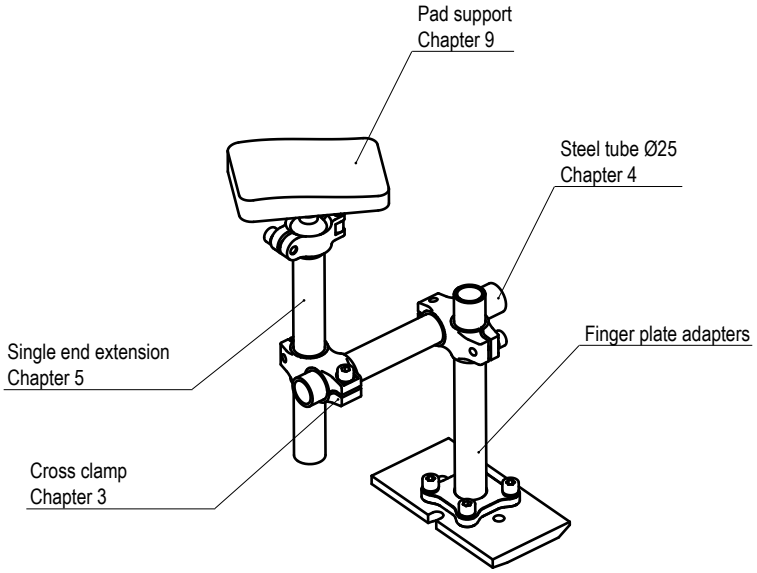
Application

GRS press tooling series 40

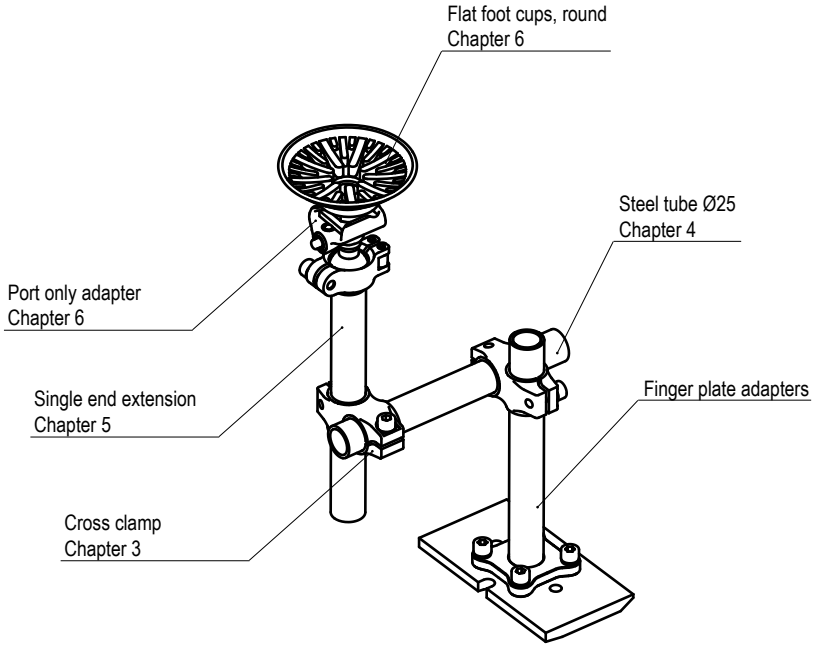


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GRS press tooling



GRS press tooling

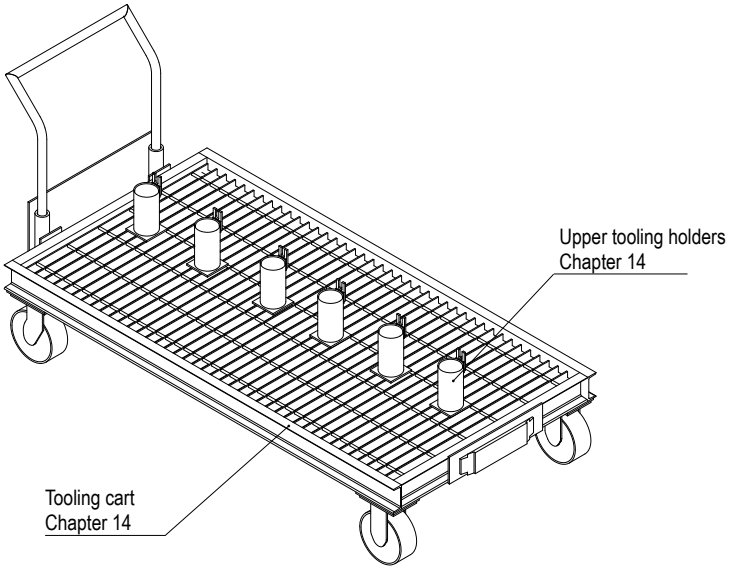


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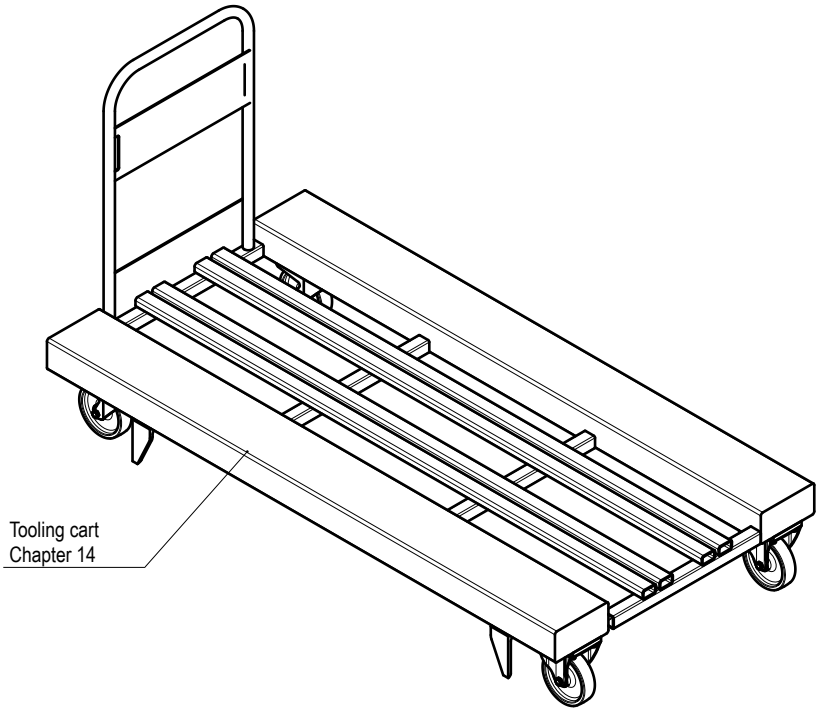
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Application

Tooling cart

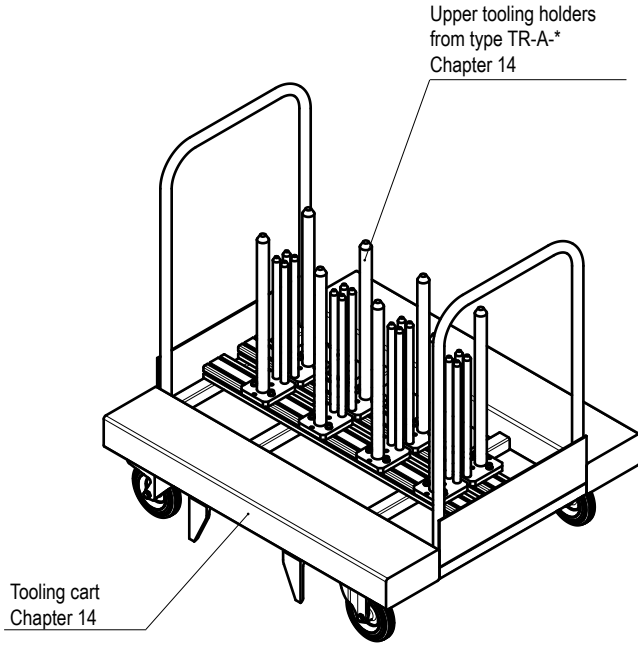


Tooling cart with 2 guide

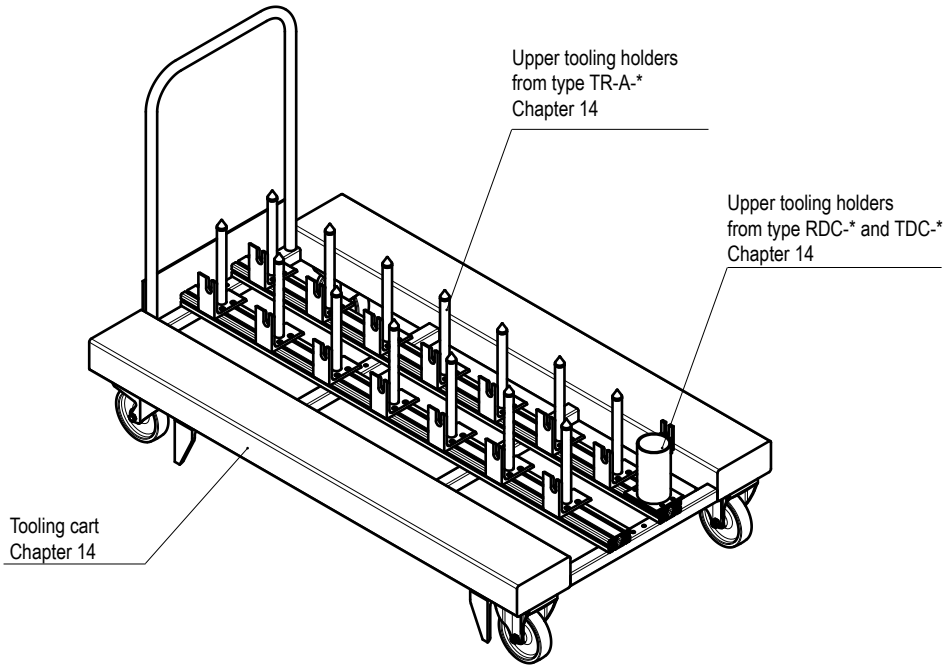


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Tooling cart with 8 slots



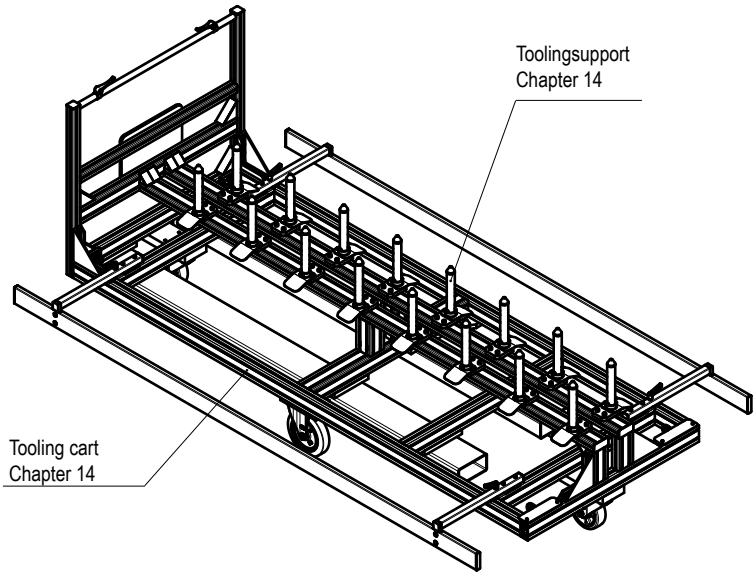
Tooling cart with 15 tooling holder



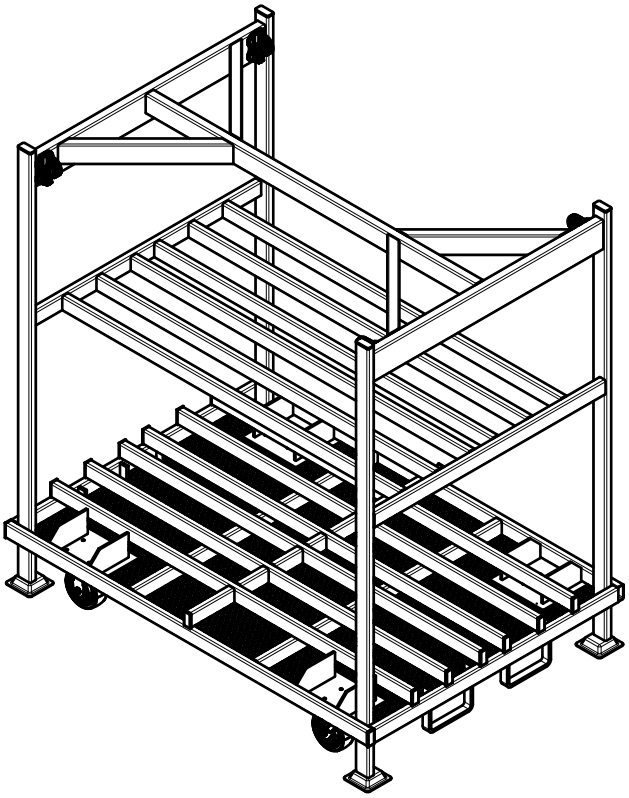
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Tooling cart

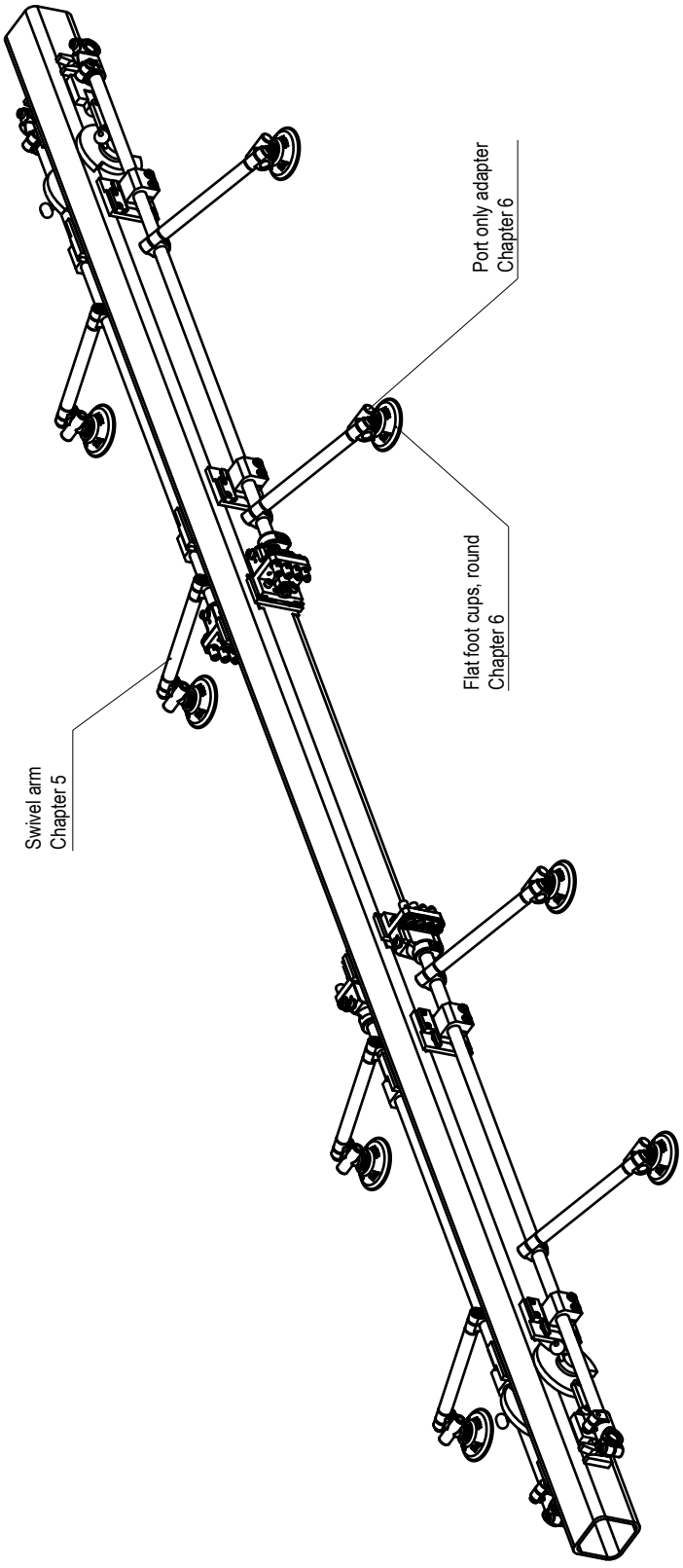


Stacking trolley for transfer tooling



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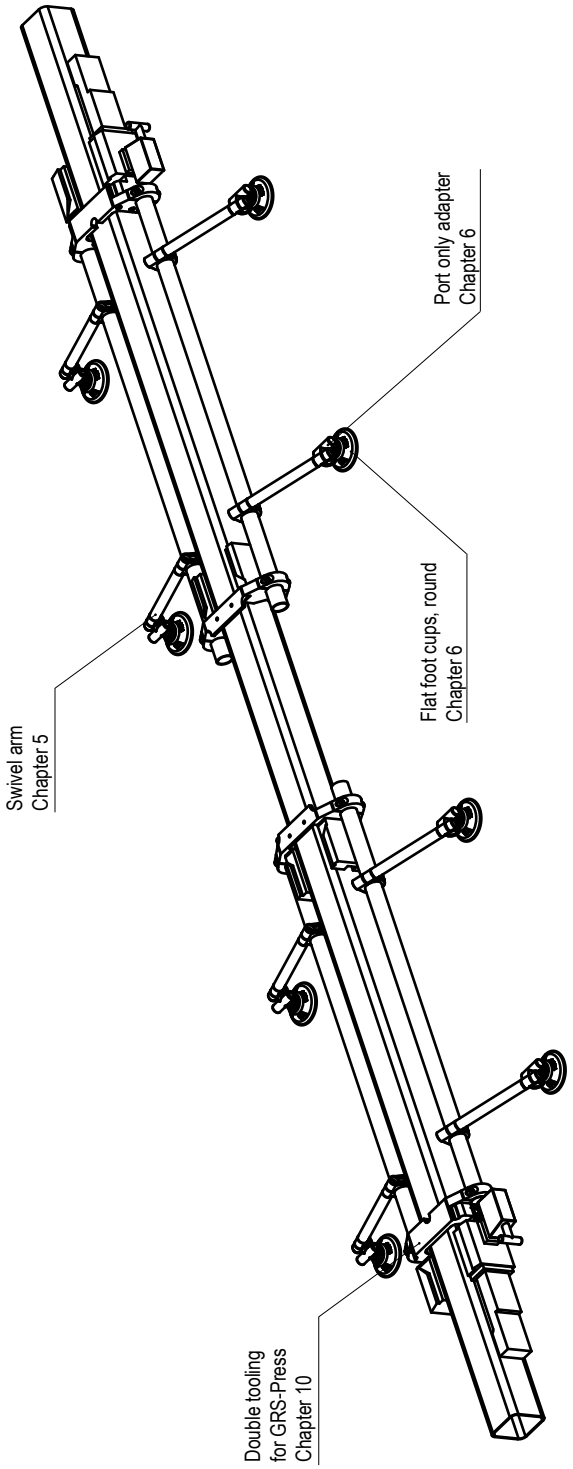
Crossbar single tooling



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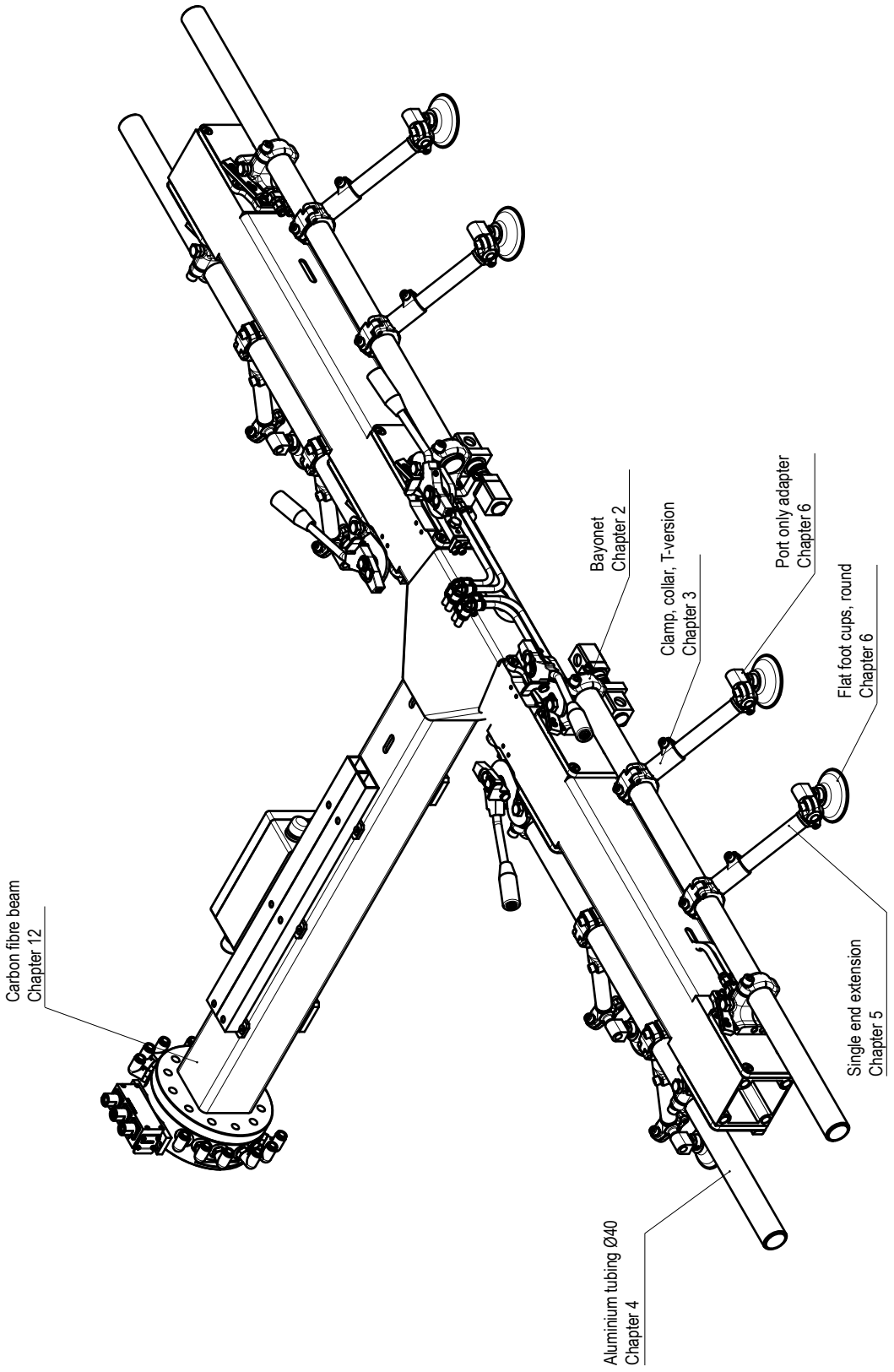
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Crossbar double tooling



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Carbon fibre T-beam with tooling series 40 and 25

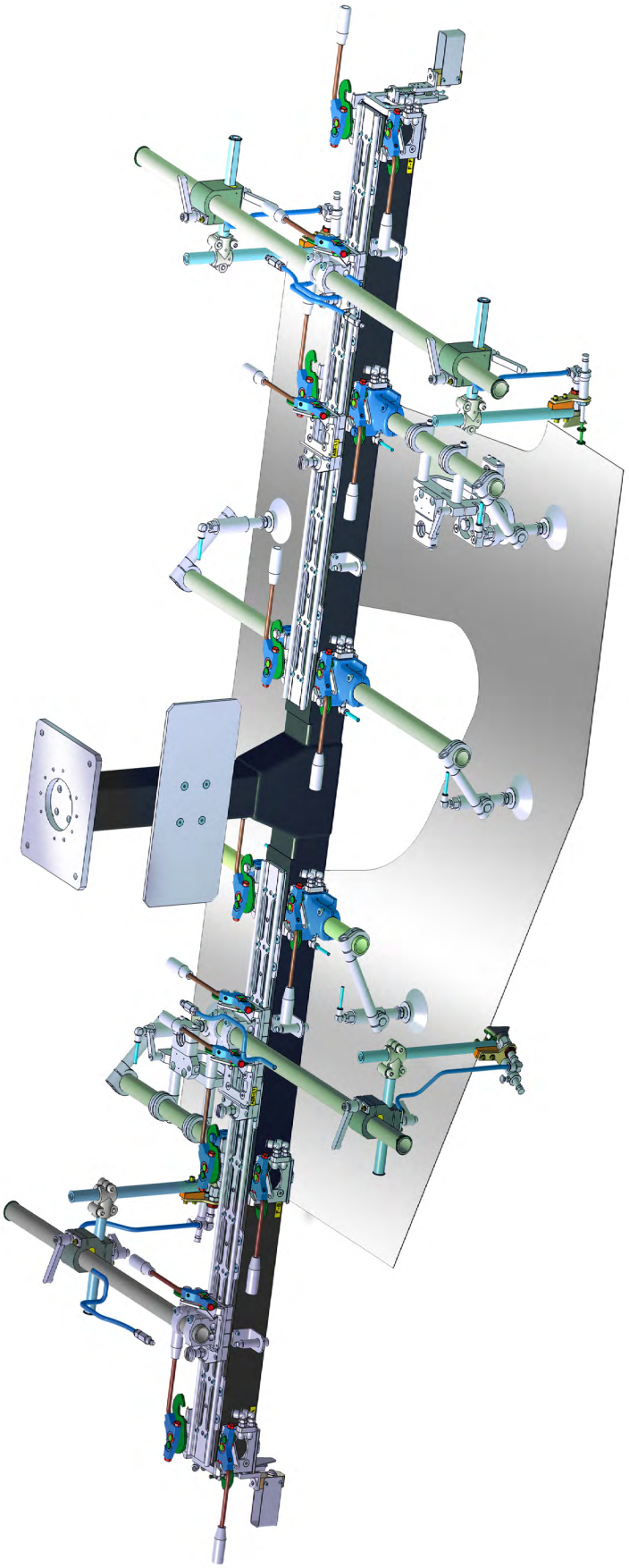


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Application

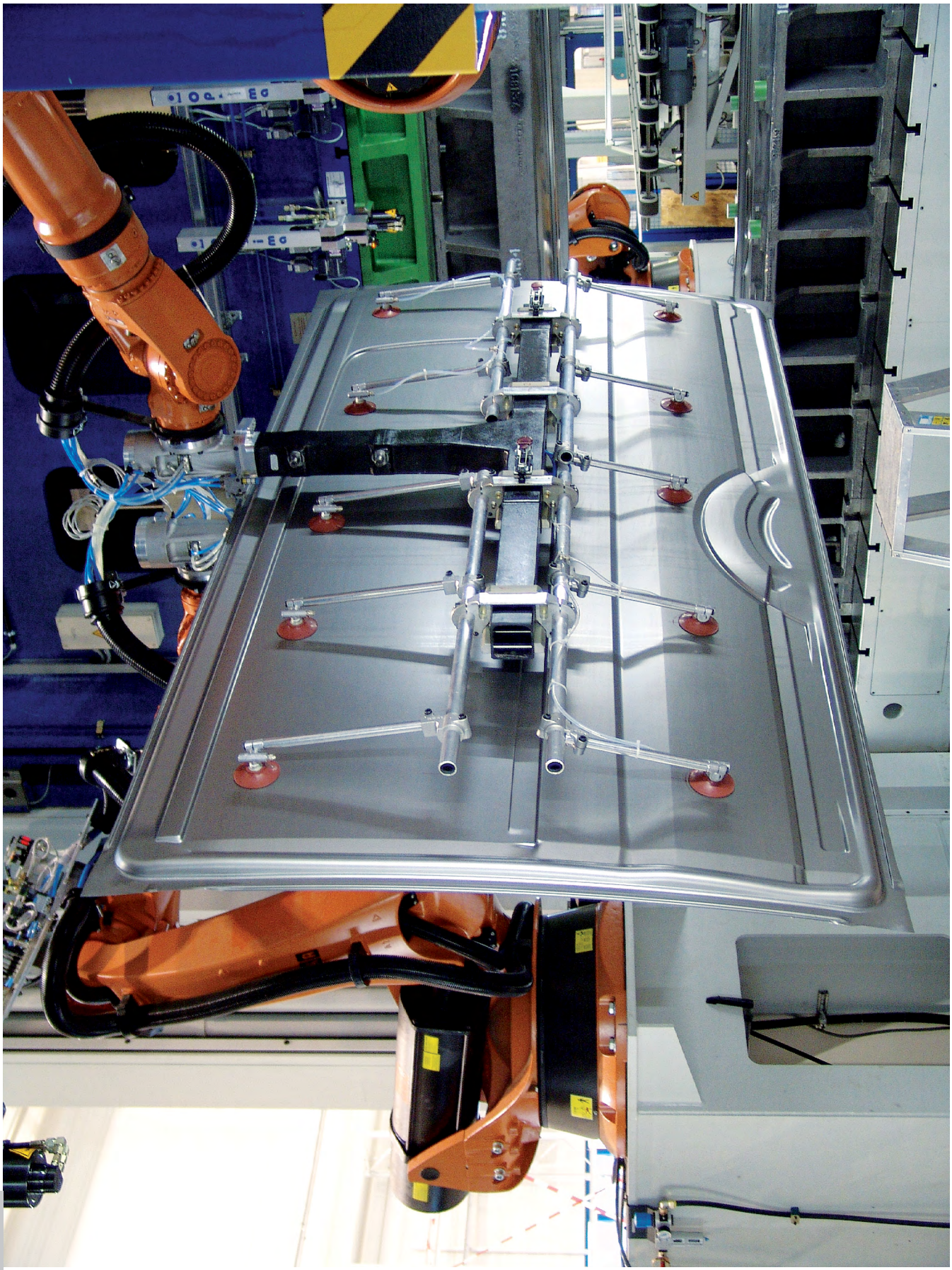
Carbon fibre T-beam for destacking with multiplex tooling



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Carbon fibre T-beam with 2 port double tooling

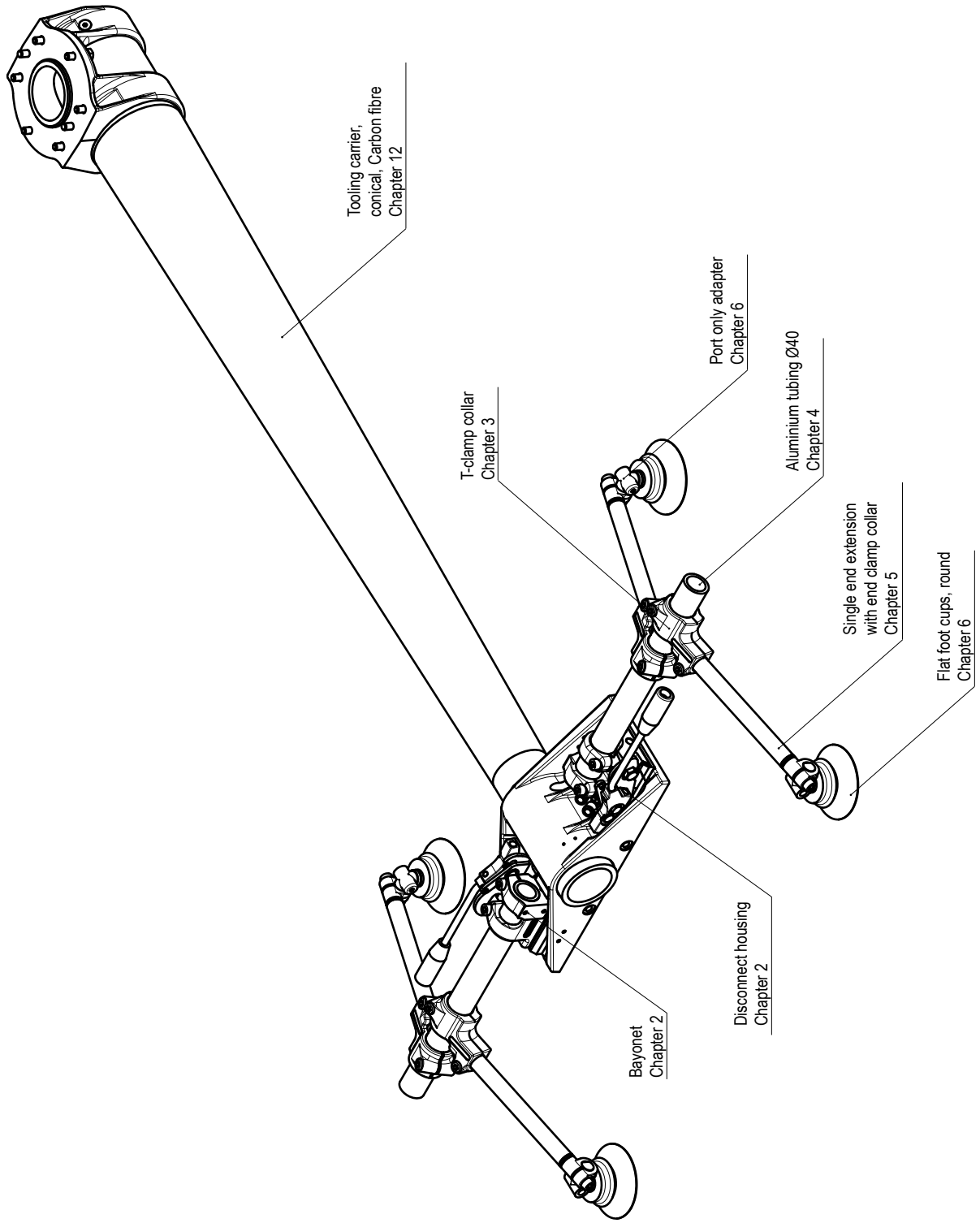


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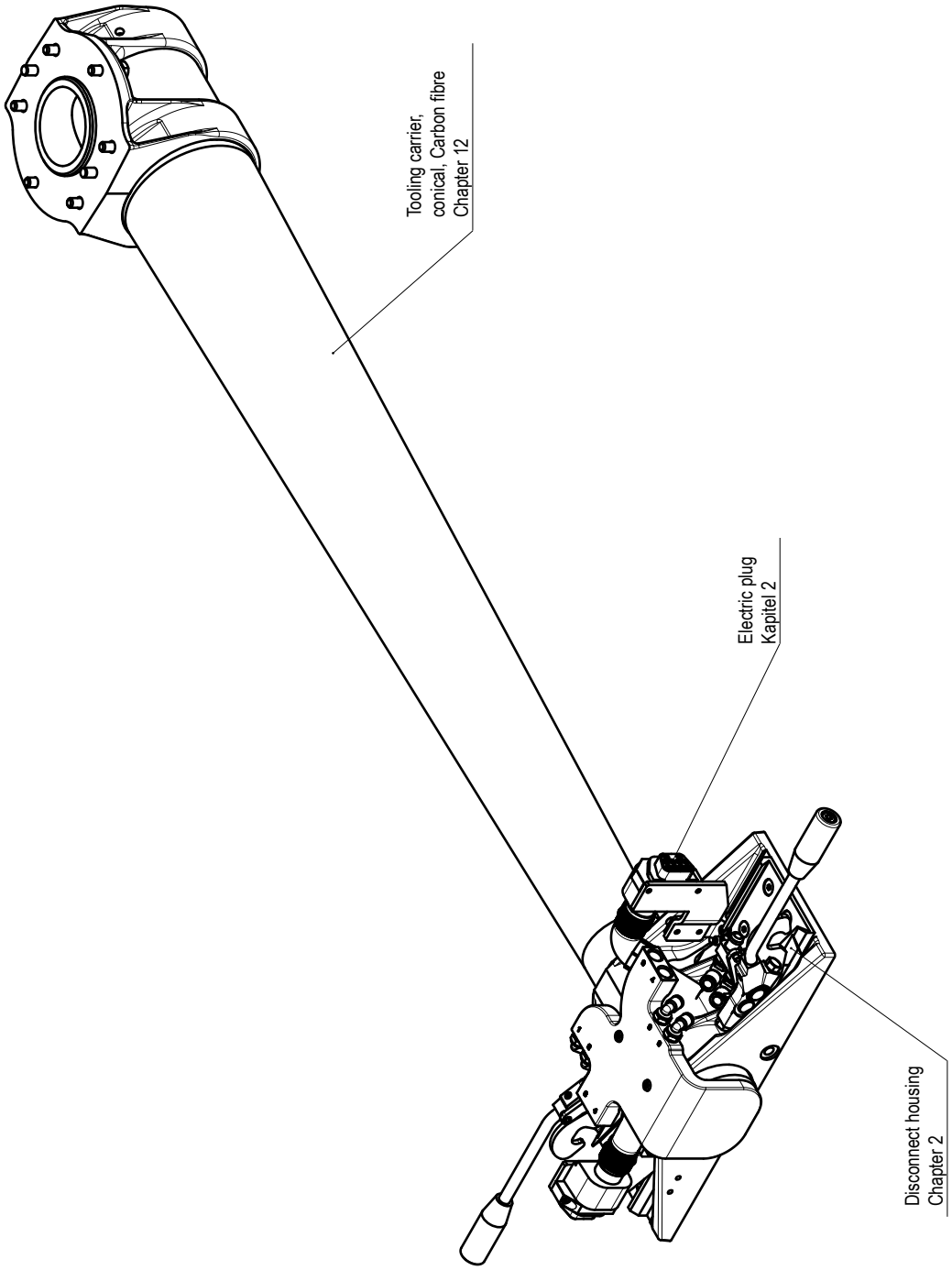
Application

Carbon fibre tube with tooling series 40



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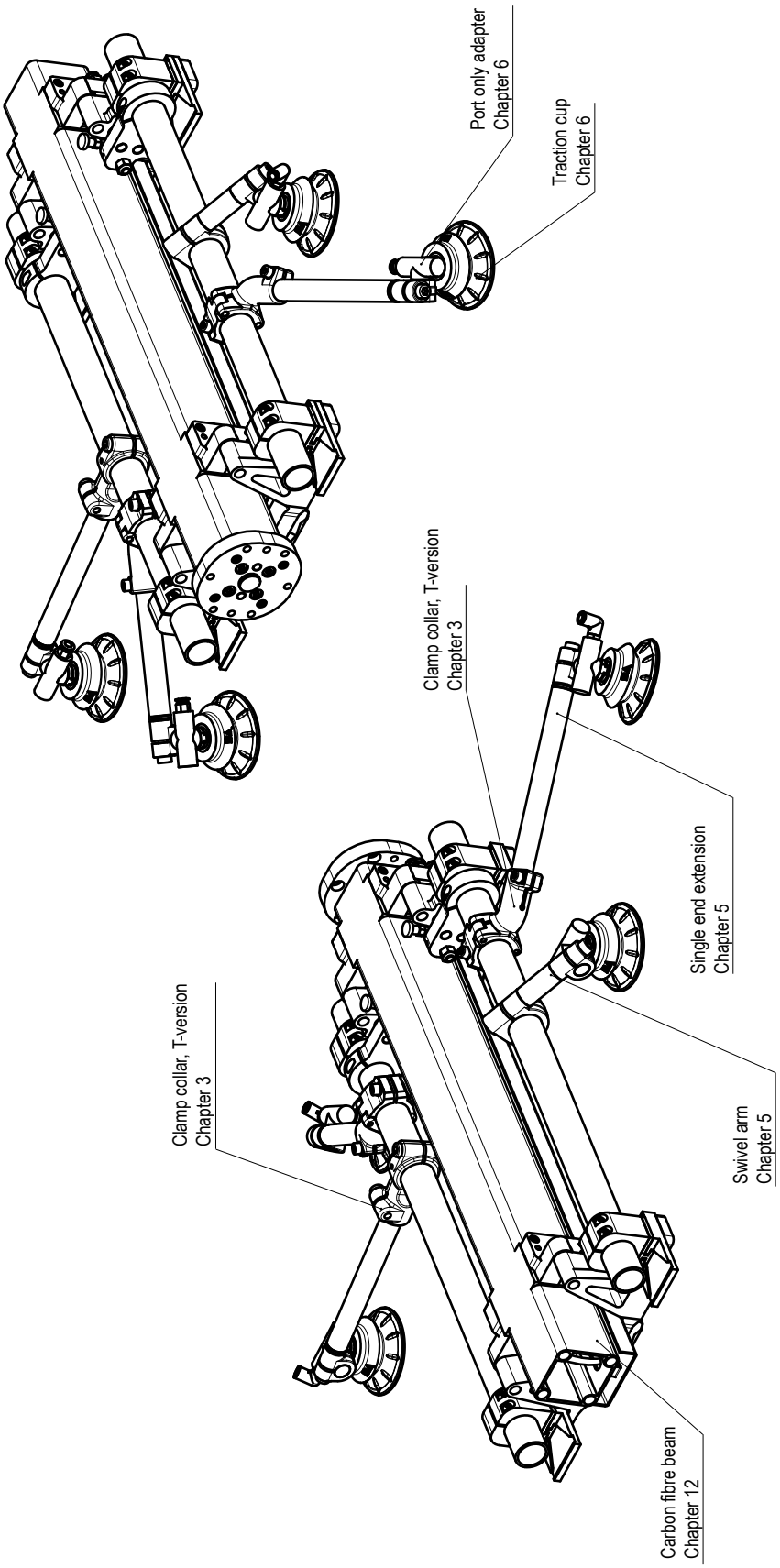
Conical carbon fibre tube with air supplement and electric



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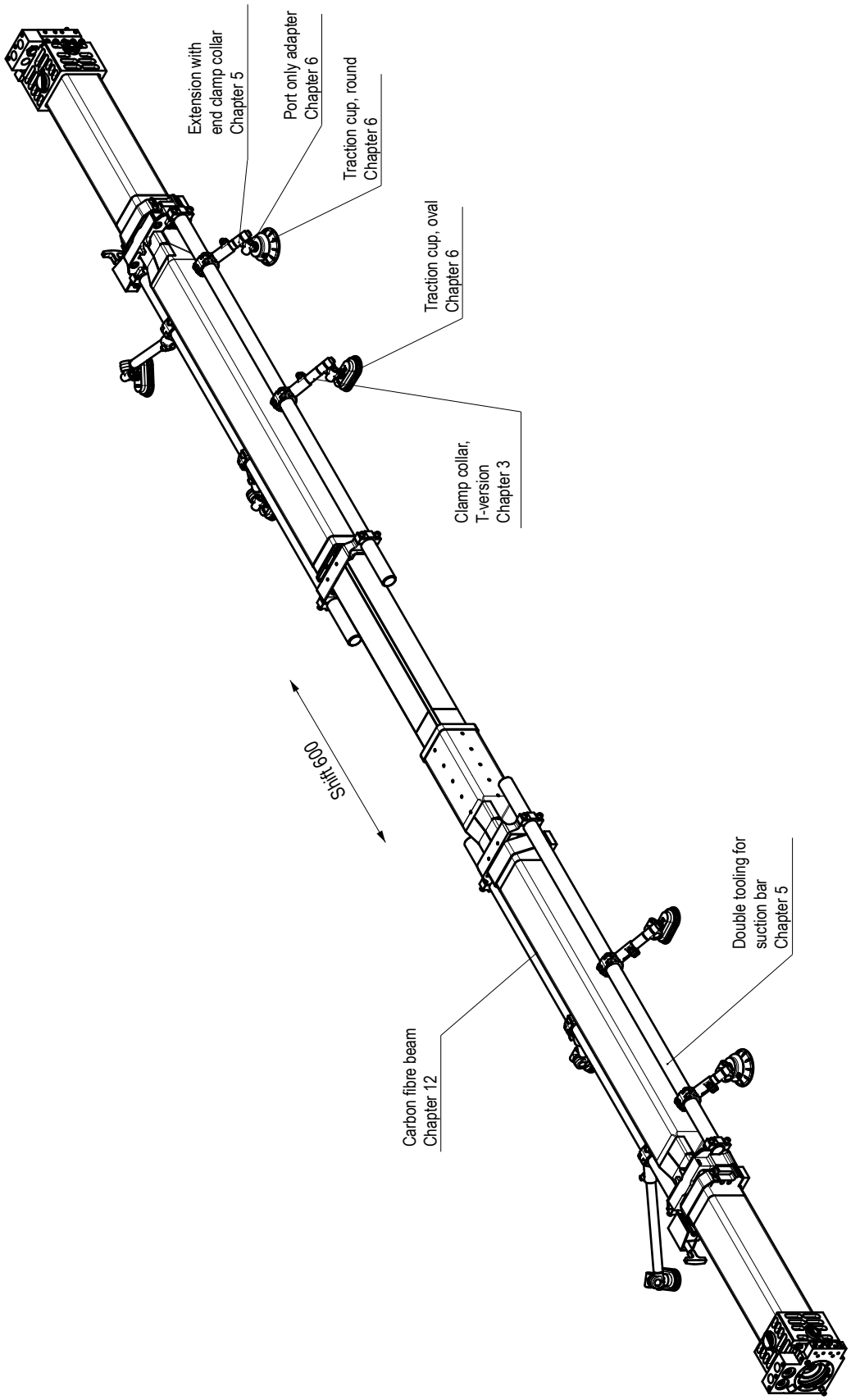
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Carbon beam-Interpress



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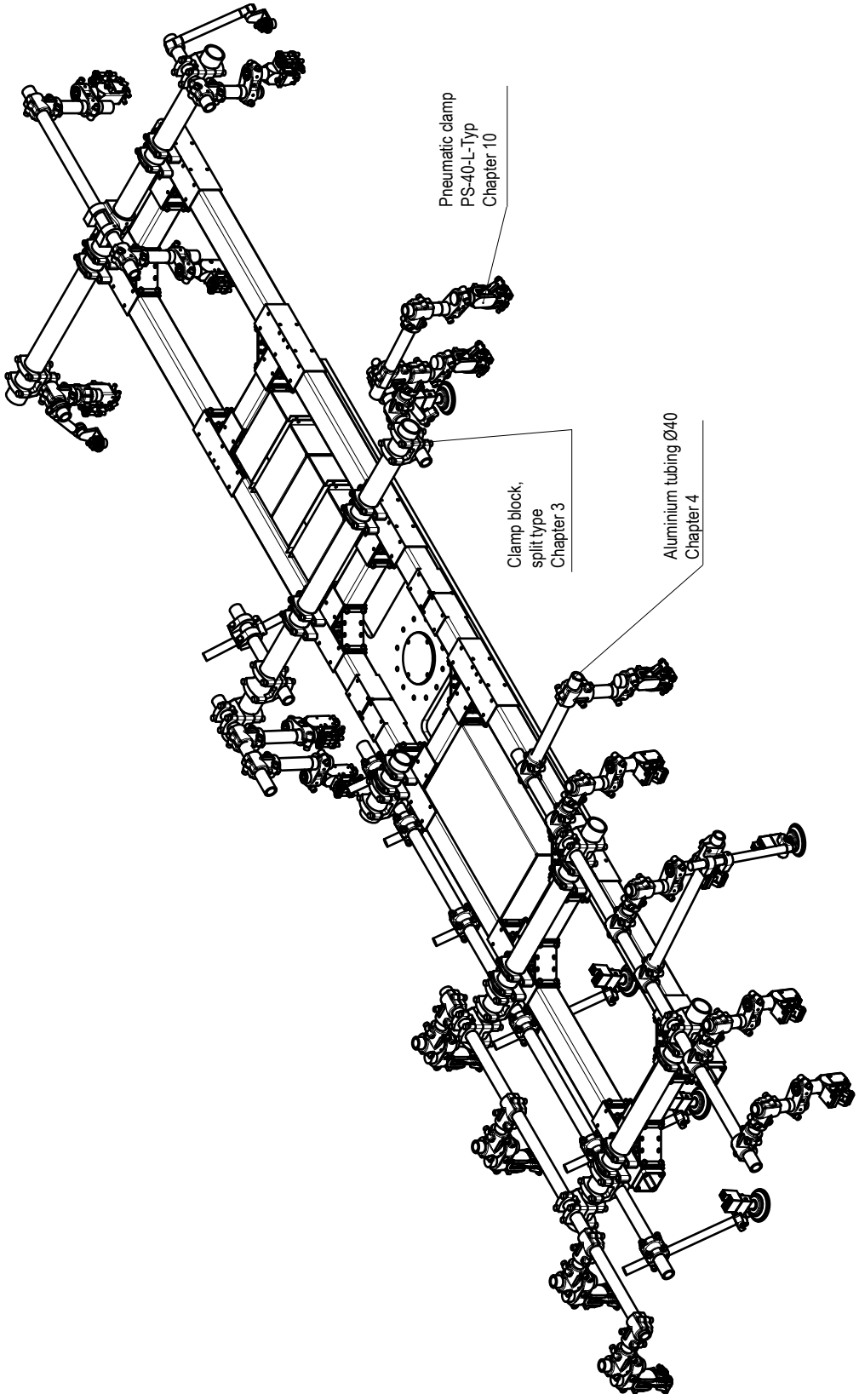
Carbon beam telescopic bar



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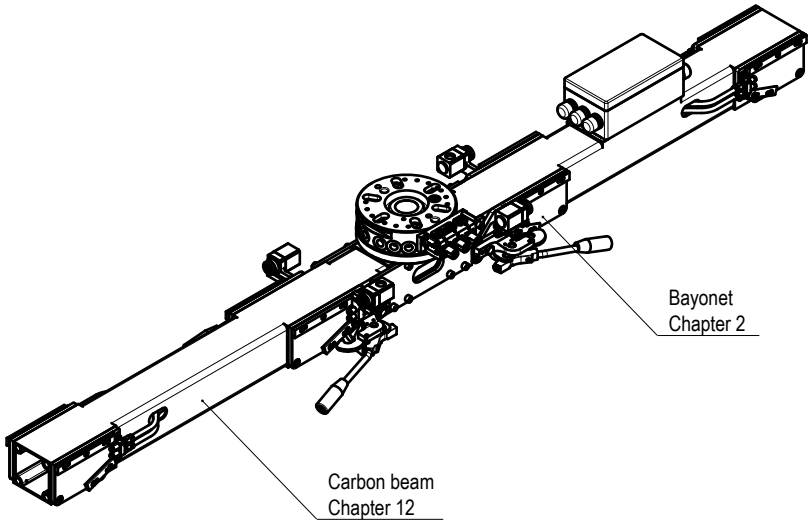
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H-frame - Carbon

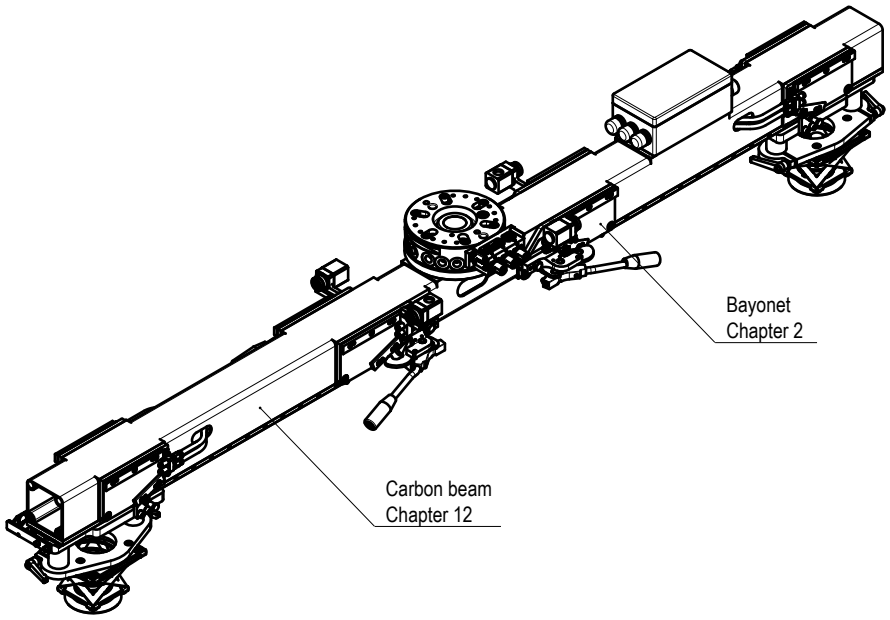


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Destacking beam for 4 tooling series 40, Carbon



Destacking beam for 4 tooling series 40, Carbon



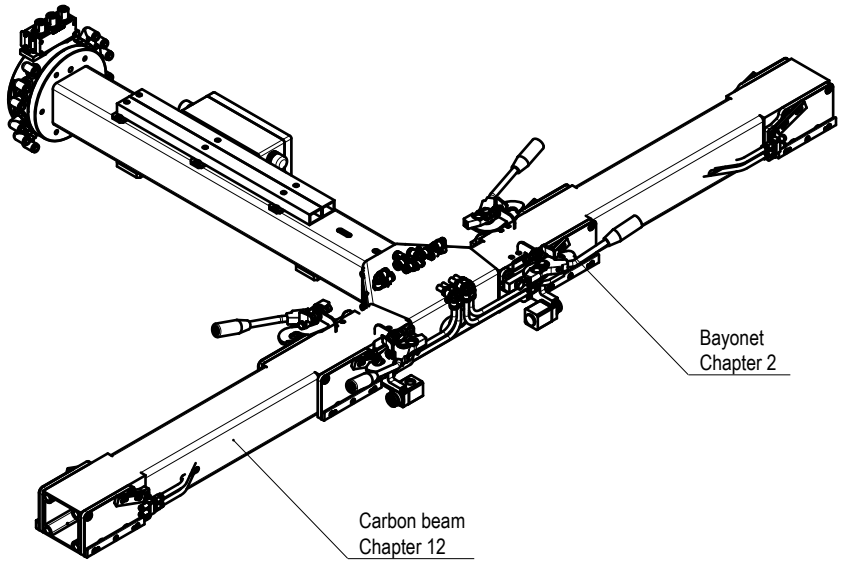
Carbon gripper modules are manufactured according to customer.
Please contact our sales department.

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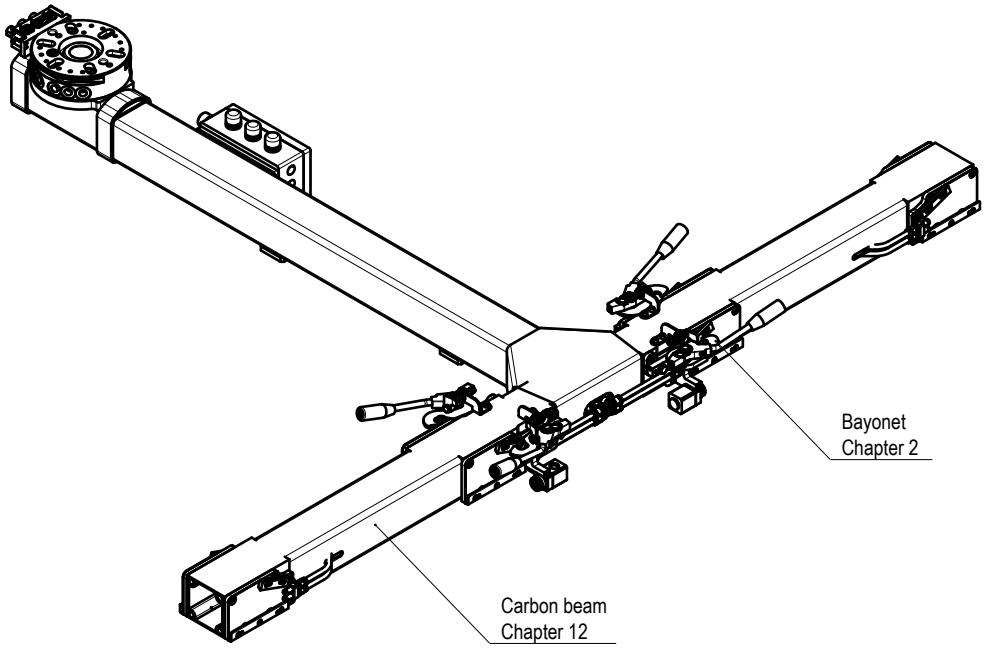
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Application

Interpress beam for 4 tooling series 40, Carbon



Interpress beam for 4 tooling series 40, Carbon

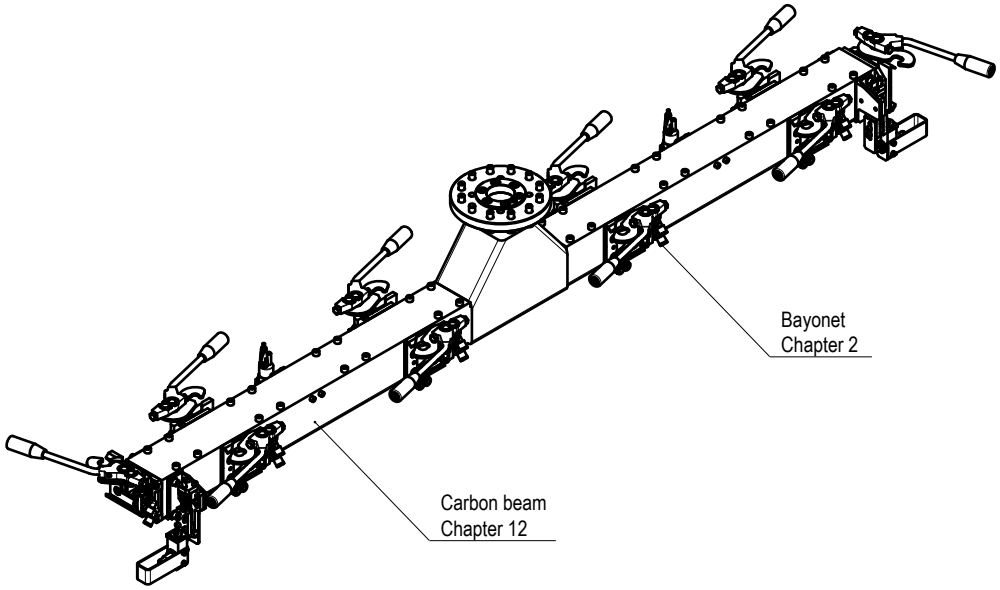


Carbon gripper modules are manufactured according to customer.
Please contact our sales department.

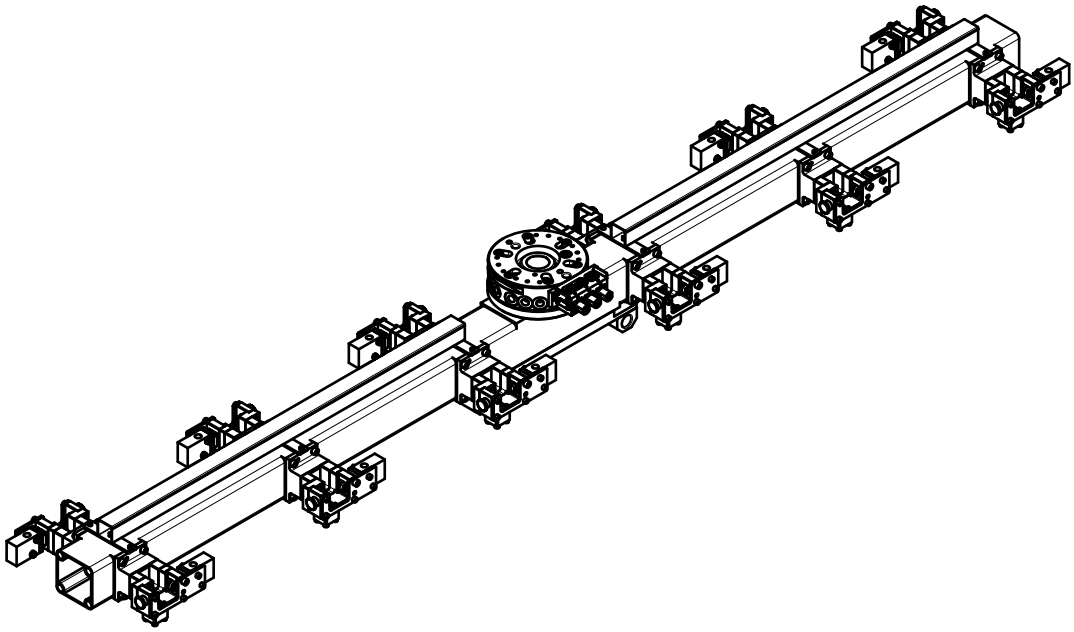
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Destacking beam for multiplex tooling series 40



Centering robot beam, Carbon



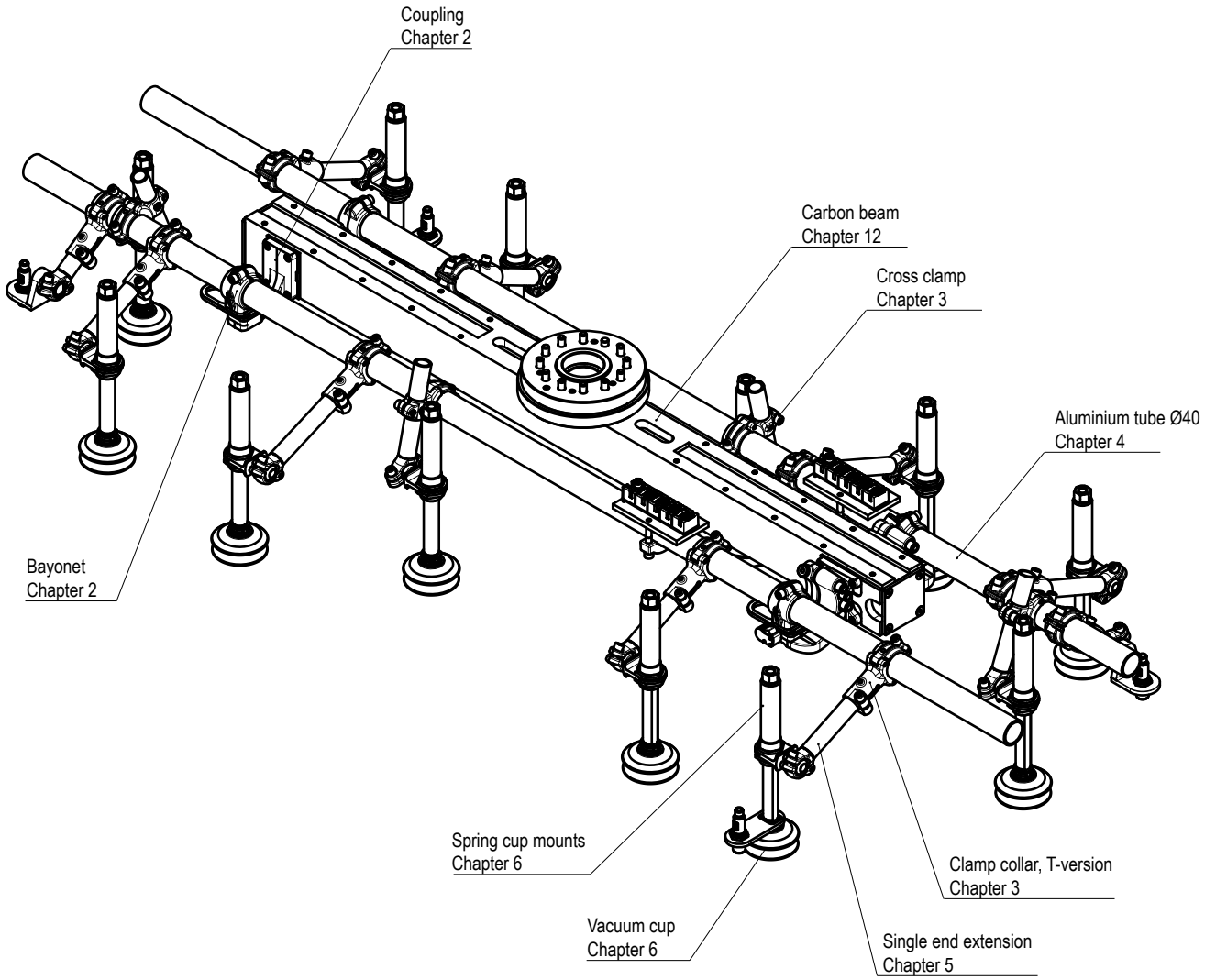
Carbon gripper modules are manufactured according to customer.
Please contact our sales department.

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Application

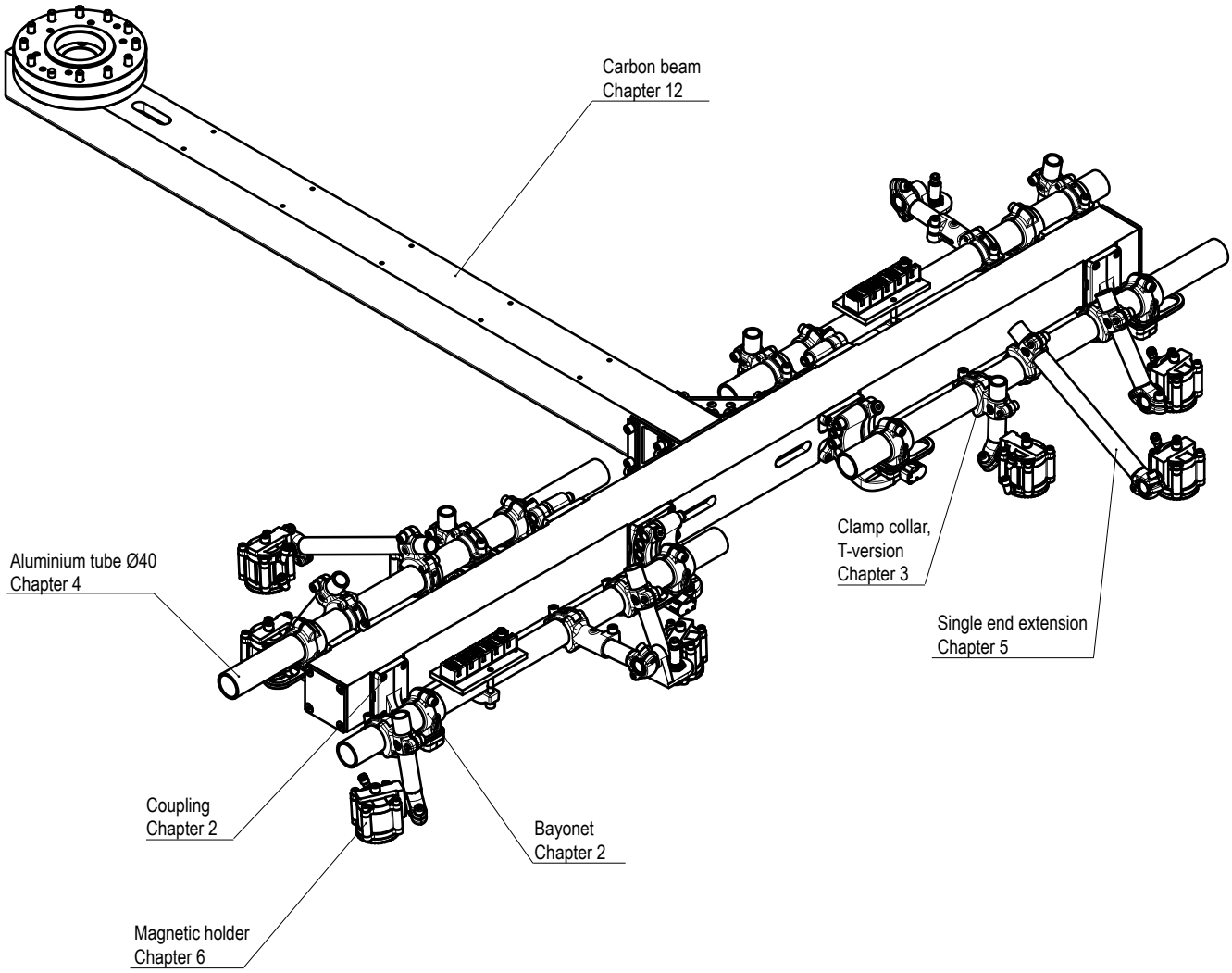
Destacking beam, Carbon, hotforming



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Interpress beam for 4 tooling series 40, Carbon

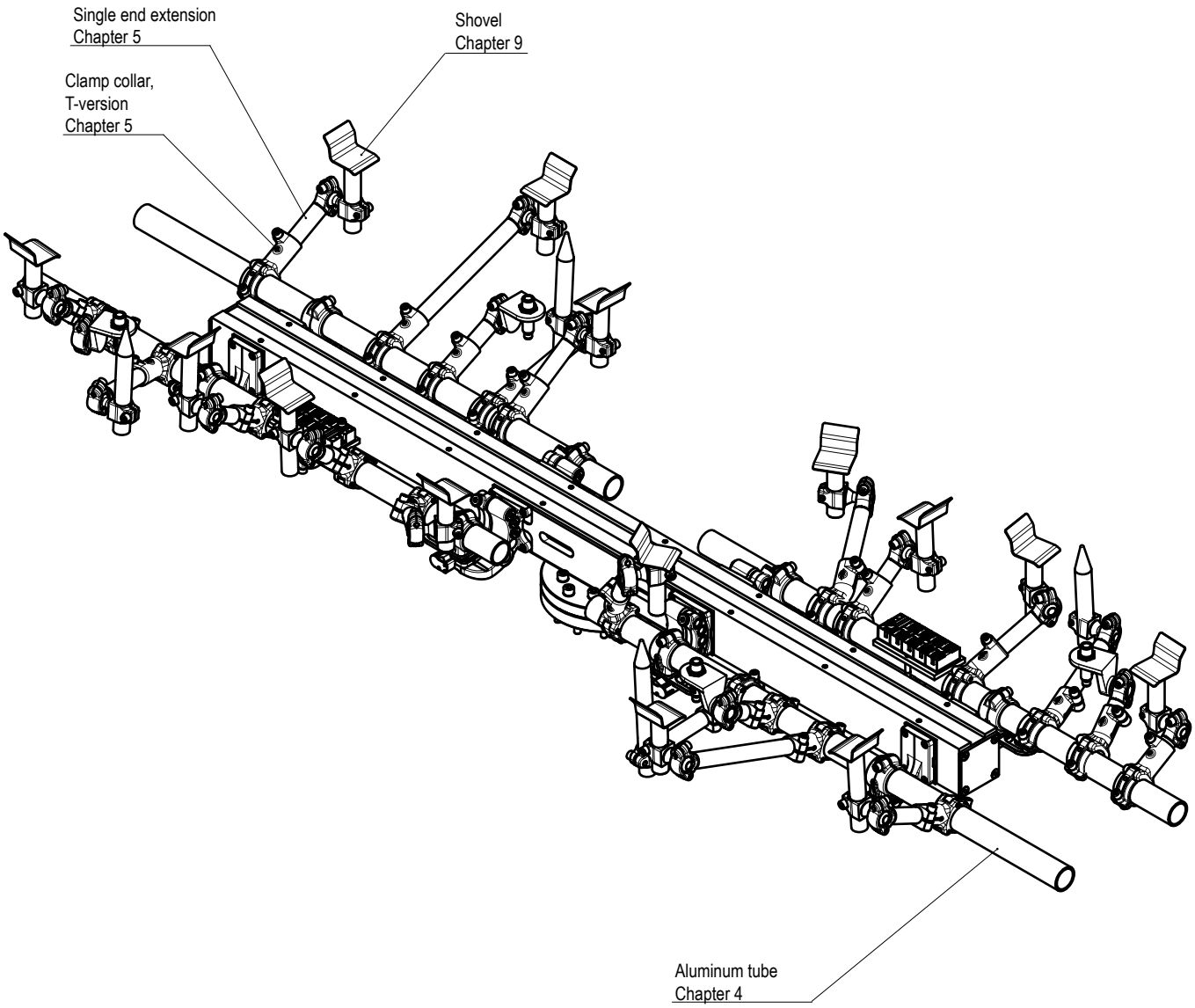


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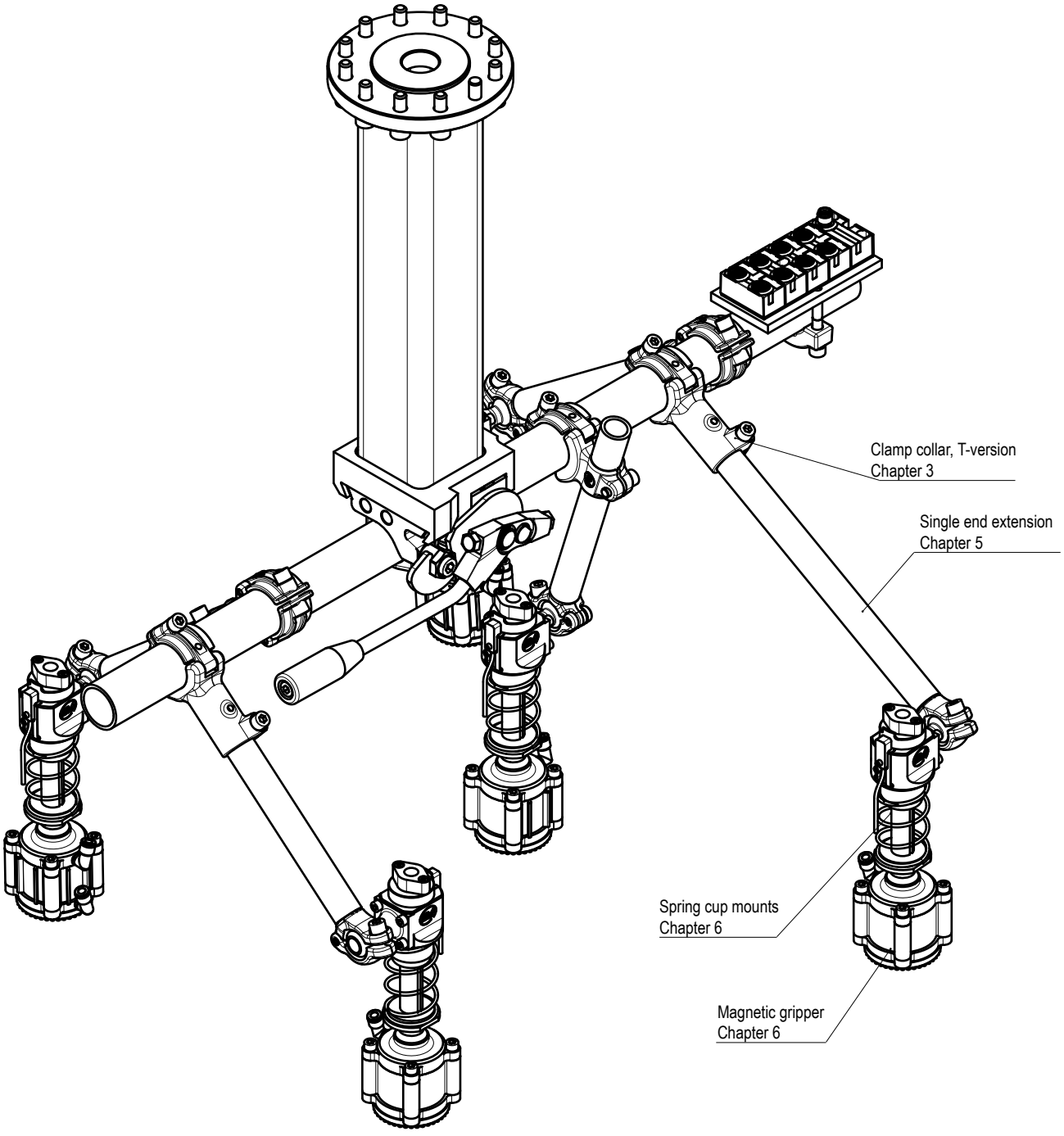
Application

Shuttle, carbon, hotforming



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Destacking, hotforming



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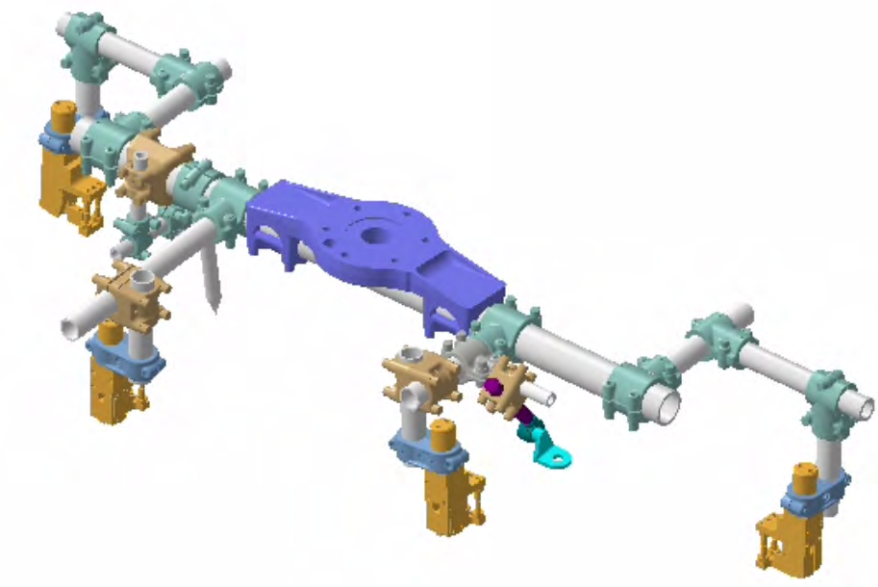
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Handling gripper

Material handling grippers are grippers for the transport of the components. The component is completely geometrically pre-fixed and all individual components and assembly groups which belong to it are attached on the component tightly. Typical applications for a handling gripper are the transport from and to:

- working stations
- deposit stations
- turning systems
- unloading systems of inlaid stations

Since the components are geometrical and pre-fixed the demands regarding the structure accuracy at handling grippers are lower than at process and geometric grippers. Regarding the lower forces which have an effect on the gripper the frame structures can be carried out easier.



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Handling gripper - Front bonnet



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Process gripper

Process grippers are grippers with which the component undergoes a production process.

Individual components and assembly groups are already attached on the component tightly.

Applications for process grippers are for carrying out production operations like:

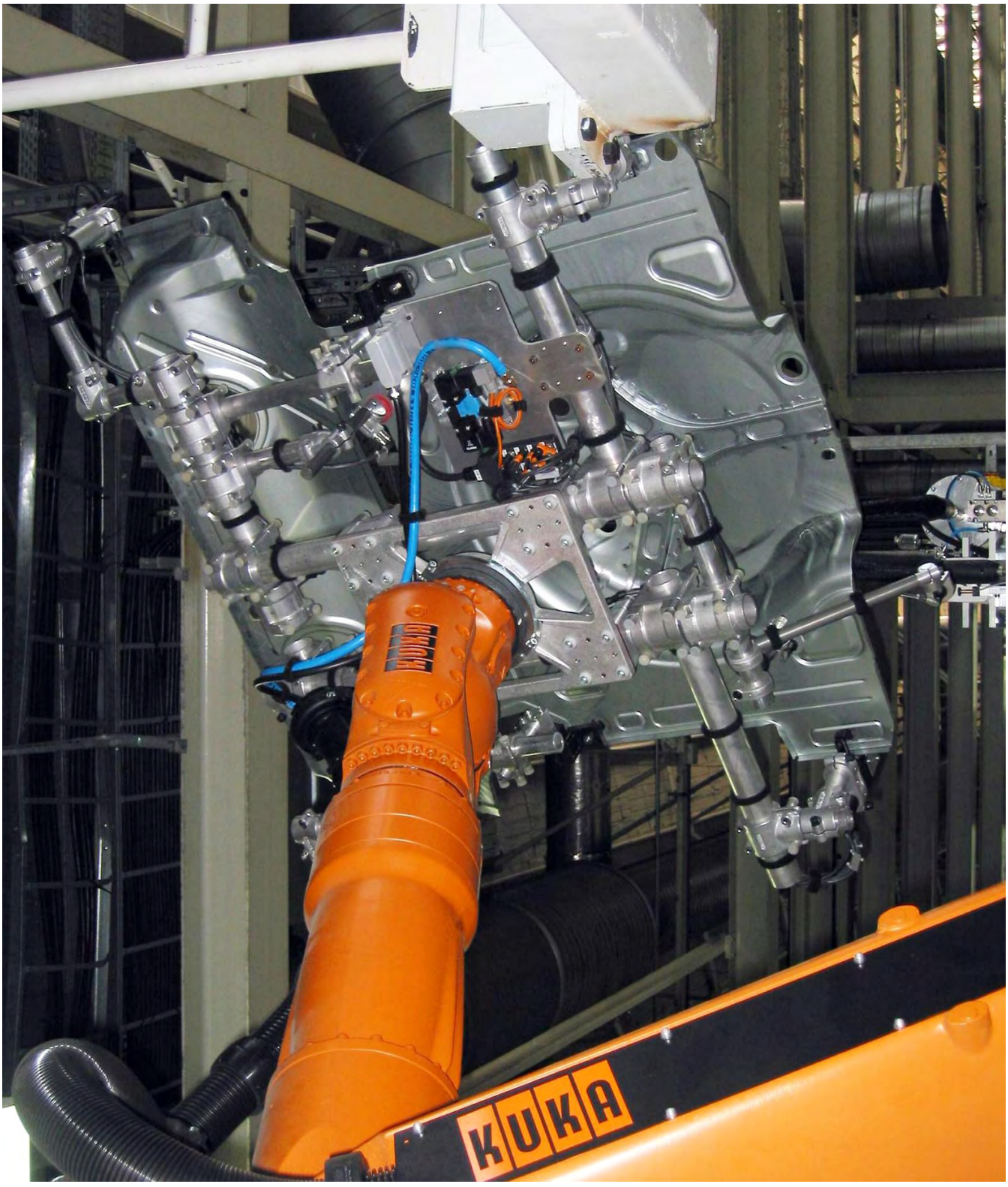
- welding
- stamping
- punching
- sticking

Regarding the high process forces which have an effect on the component (e.g. Shear force during spot welding), the tension and fixation points as well as the frame structure is more stable than at handling grippers.



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Process gripper - Floor rear

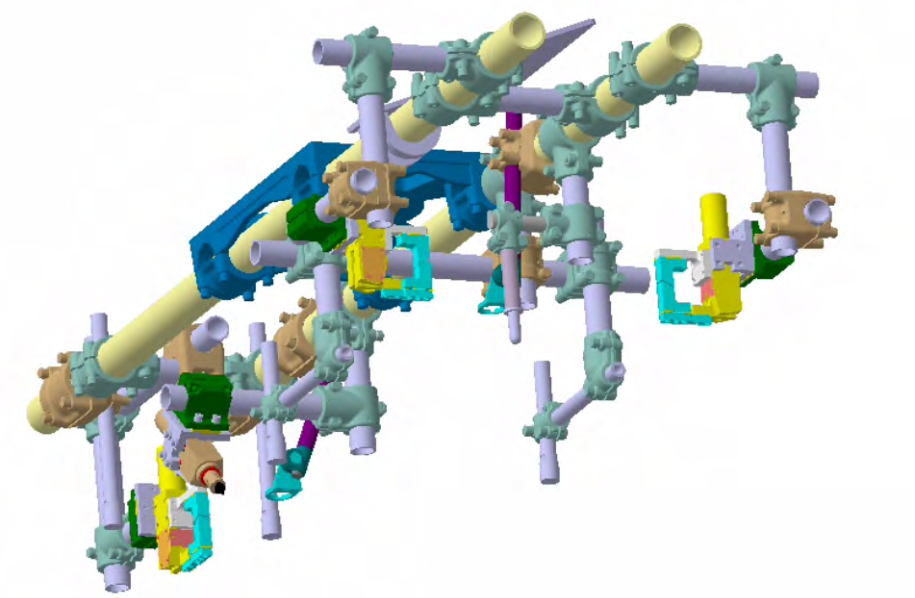


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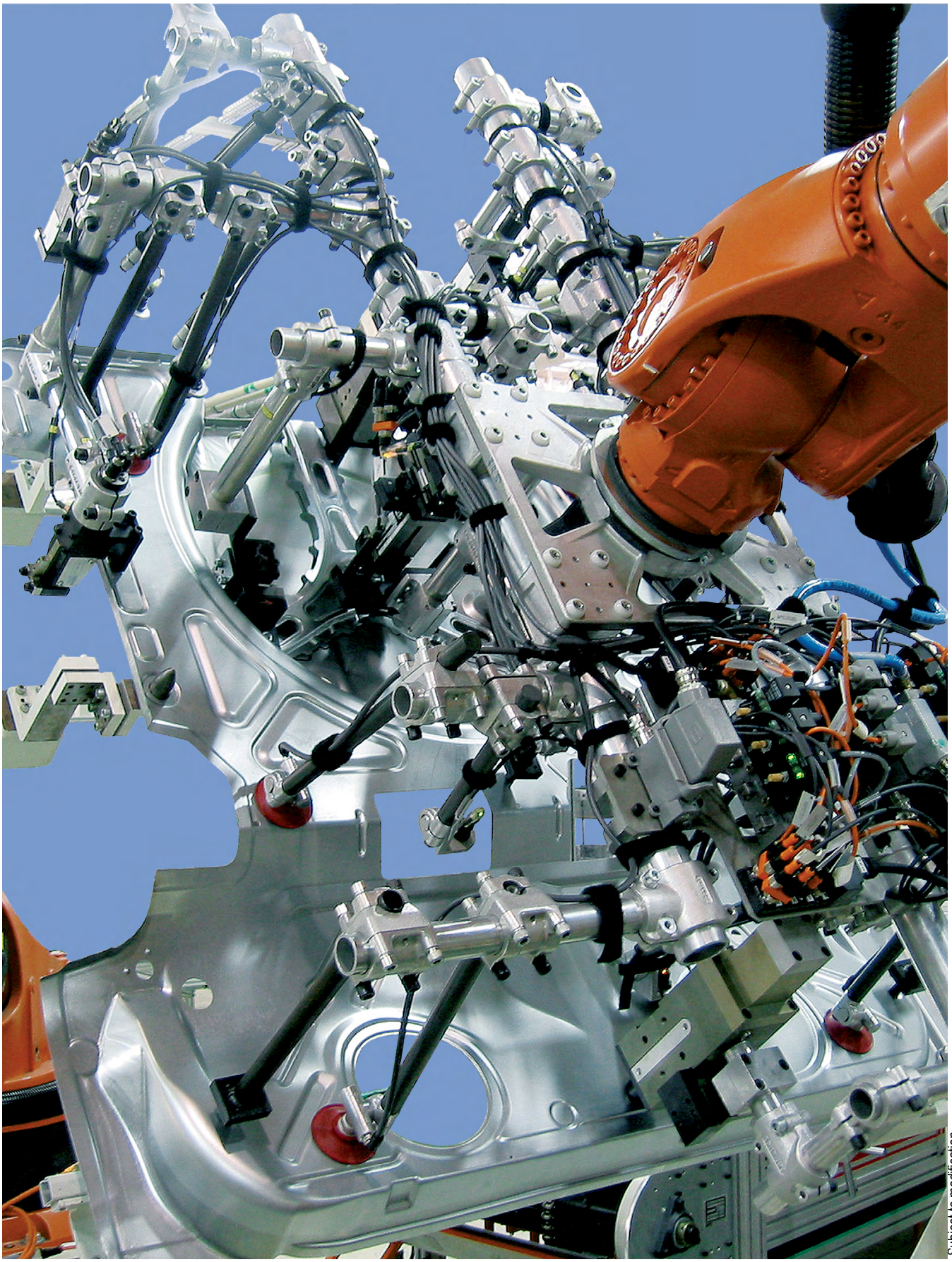
Geometric gripper

Geometric grippers are replacing the normal geometry station in the production process. On the geometric gripper the highest demands regarding the accuracy and stability are made since the gripper structure has a direct influence on the later component geometry. The individual parts and assembly groups are still not fixed on the component at the geometric gripper. Tension and positioning elements (designed correspondingly) ensure the perfect positon of these parts during the production process. Usually a geometric gripper combines the inlaid function (manual or automated) with the one of a process function (e.g. welding under a pair of welding tongs).



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Geometric gripper - Floor rear

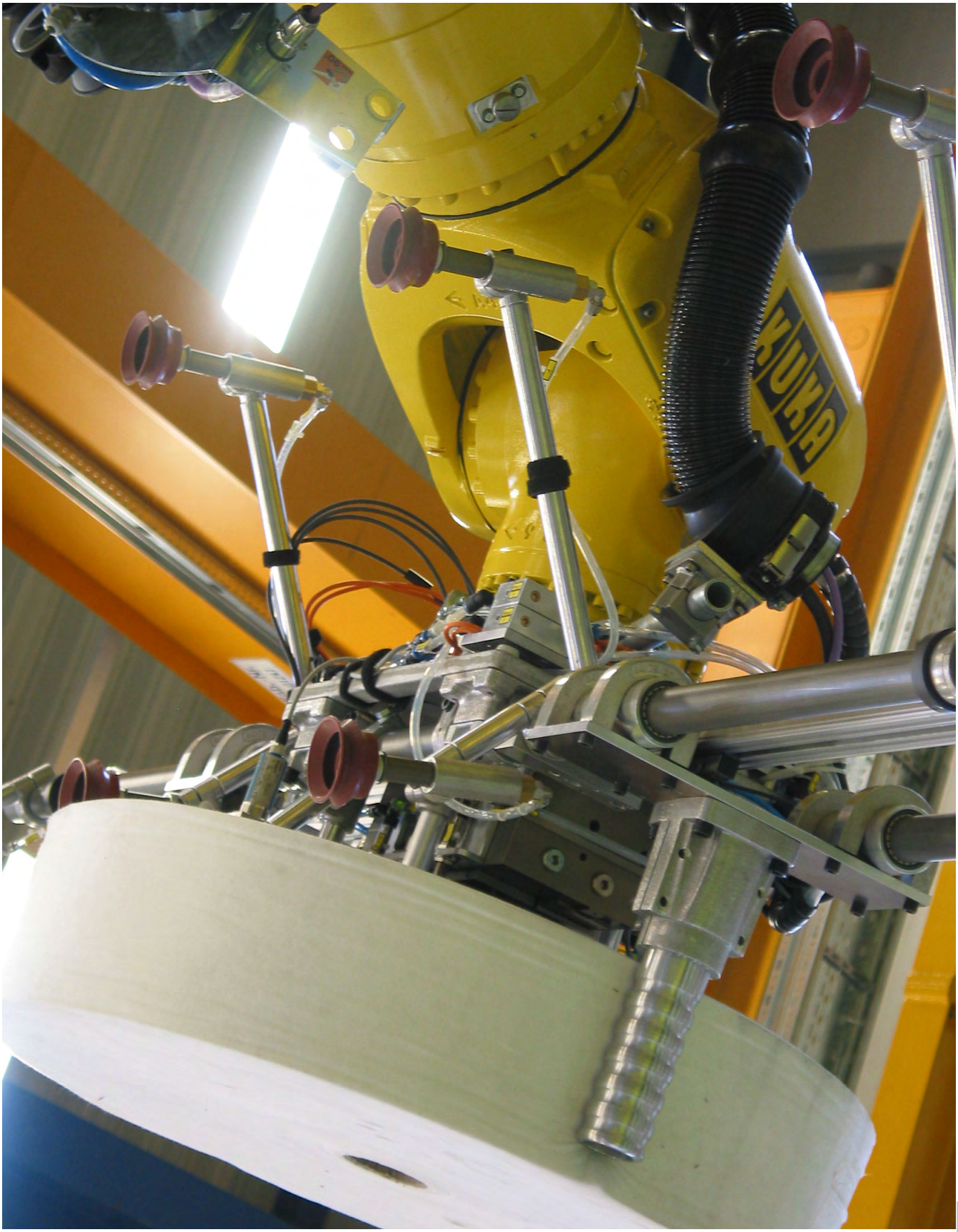


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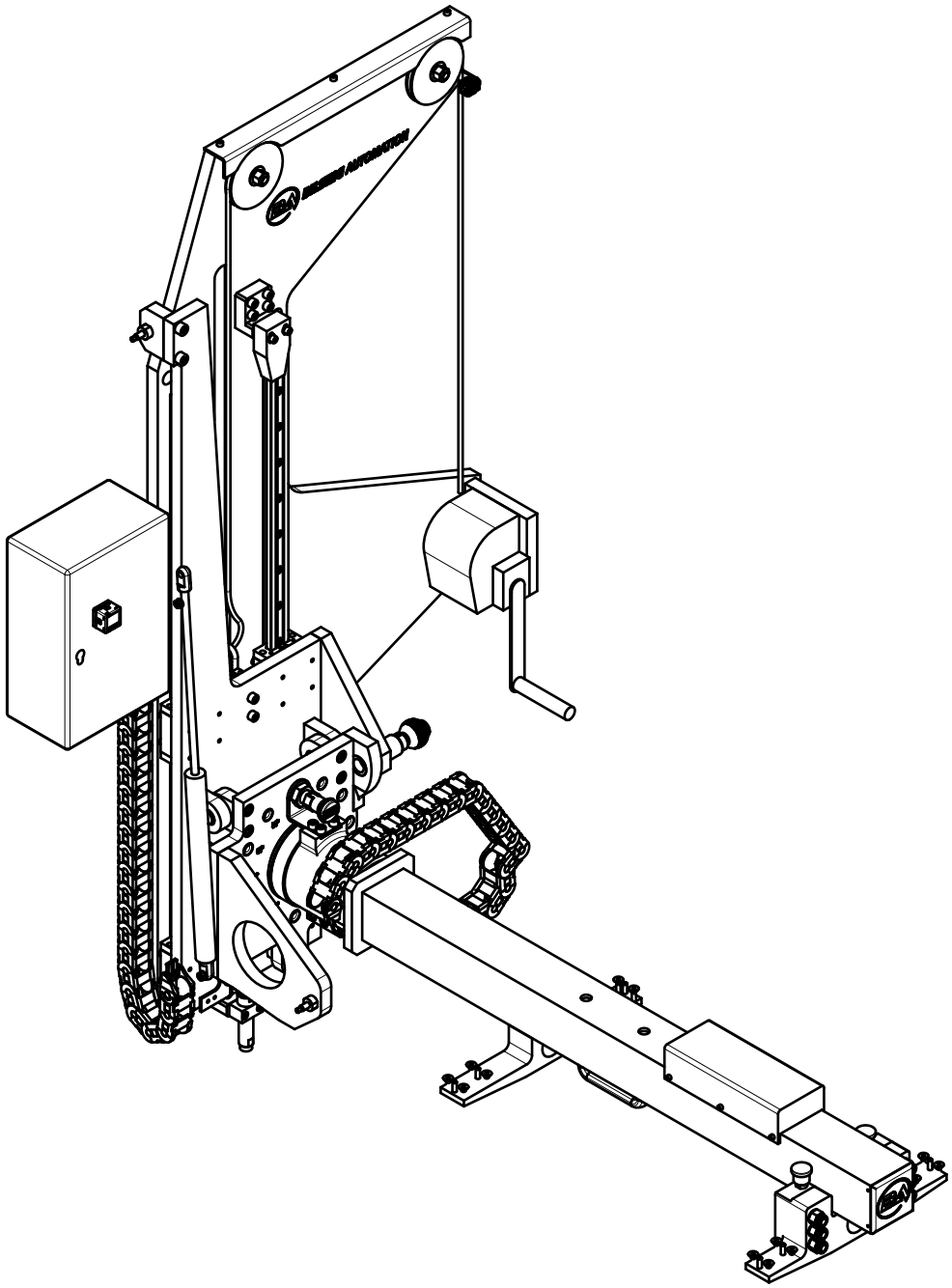
Application

Flies role gripper



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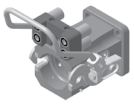
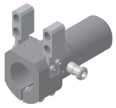
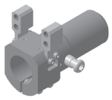
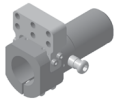
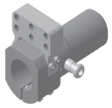
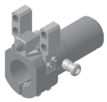
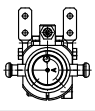
Tooling inspection



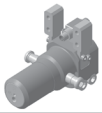
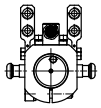
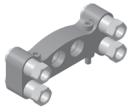
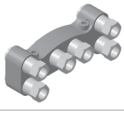
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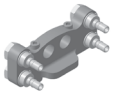
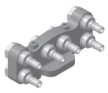
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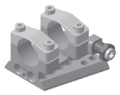
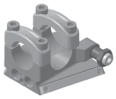
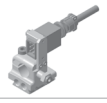
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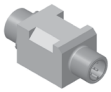
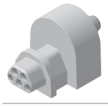
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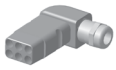
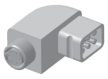
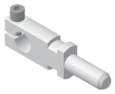
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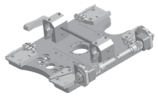
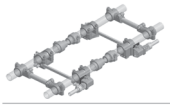
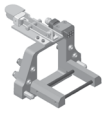
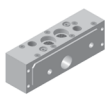
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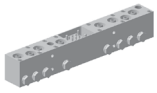
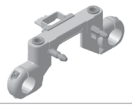
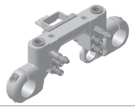
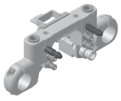
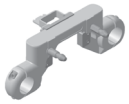
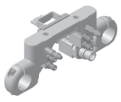
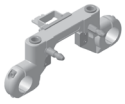
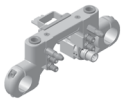
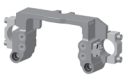
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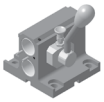
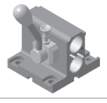
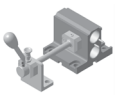
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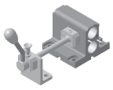
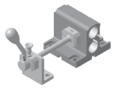
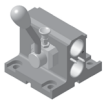
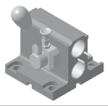
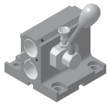
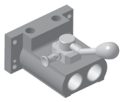
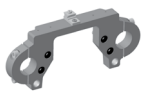
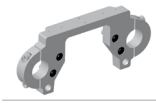
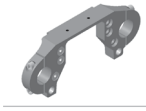
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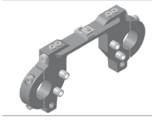
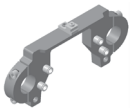
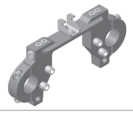
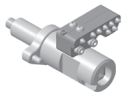
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Quick release disconnect and connection

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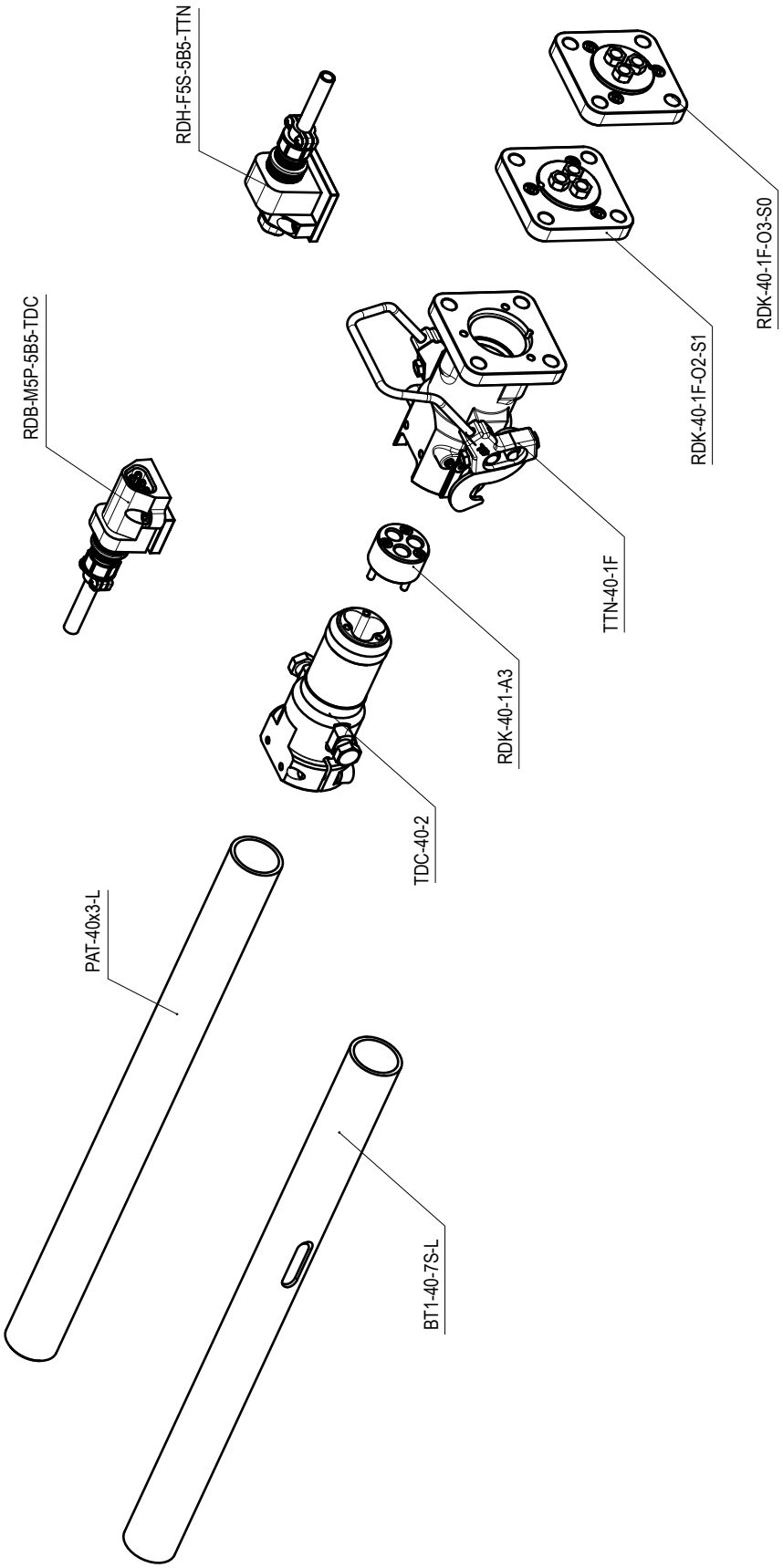
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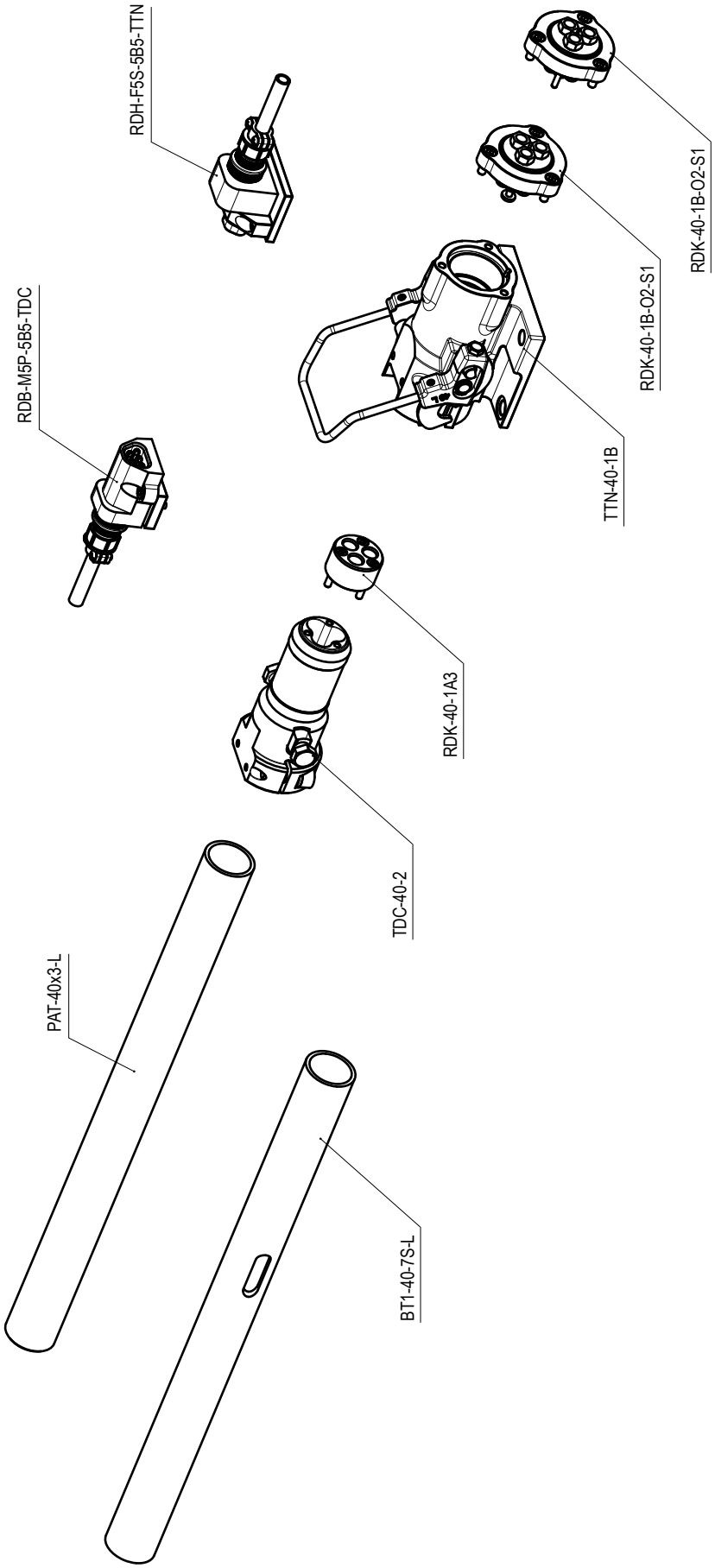
Quick release disconnect and connection

Exploded on disconnect housing (flange mount) and bayonet series 40



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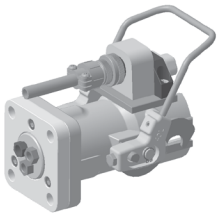
Exploded on disconnect housing (base mount) and bayonet series 40



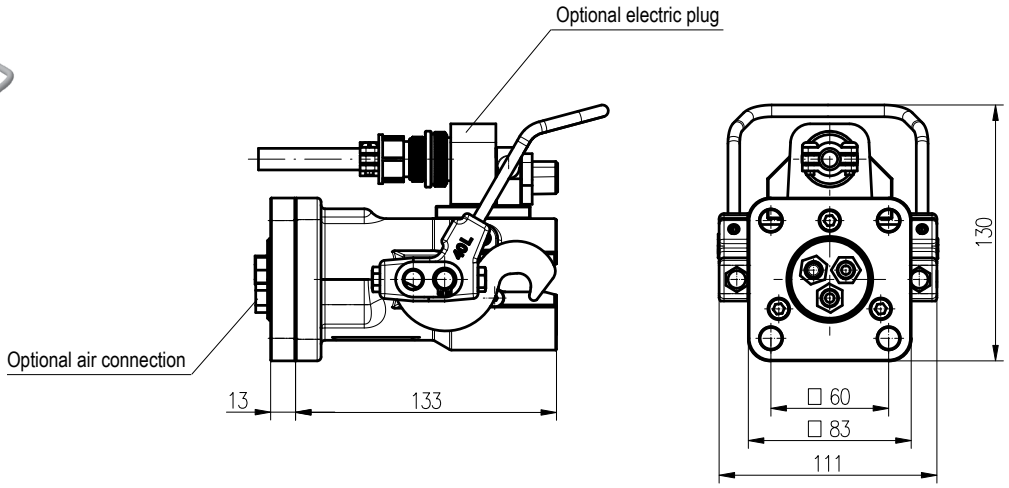
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Quick release disconnect and connection

Disconnect housing series 40 (flange mount)

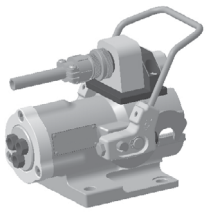


2.20 kg
Material: Aluminium



Ordering information		e.g.: TTN-40-1F-O2-S1-EL5
TTN-40-1F	-	-
	Optional air connection (Open nipple - shut off nipple)	Optional electric plug
	↓	↓
	O3 - S0	EL 5 (Socket for 5 Pin)
	O2 - S1	EL 10 (Socket for 10 Pin)

Disconnect housing series 40 (base mount)



2.58 kg
Material: Aluminium

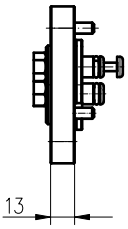
Ordering information		e.g.: TTN-40-1B-O2-S1-EL5
TTN-40-1B	-	-
	Optional air connection (Open nipple - shut off nipple)	Optional electric plug
	↓	↓
	O3 - S0	EL 5 (Socket for 5 Pin)
	O2 - S1	EL 10 (Socket for 10 Pin)

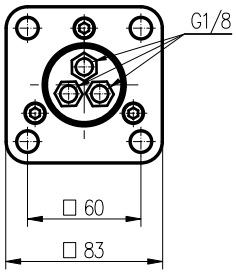
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Air connection for disconnect housing series 40 (flange mount)



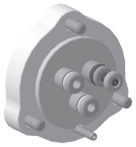
0.29 kg
Material: Aluminium



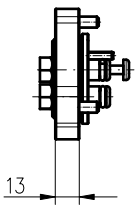


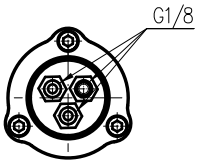
Part no.	Open nipple	Shut off nipple	(kg)
RDK-40-1F-O2-S1	O2	S1	1.48
RDK-40-1F-O3-S0	O3	S0	1.48

Air connection for disconnect housing series 40 (base mount)



0.19 kg
Material: Aluminium



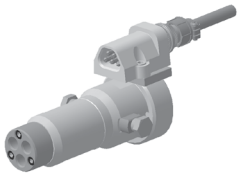


Part no.	Open nipple	Shut off nipple	(kg)
RDK-40-1B-O2-S1	O2	S1	1.48
RDK-40-1B-O3-S0	O3	S0	1.48

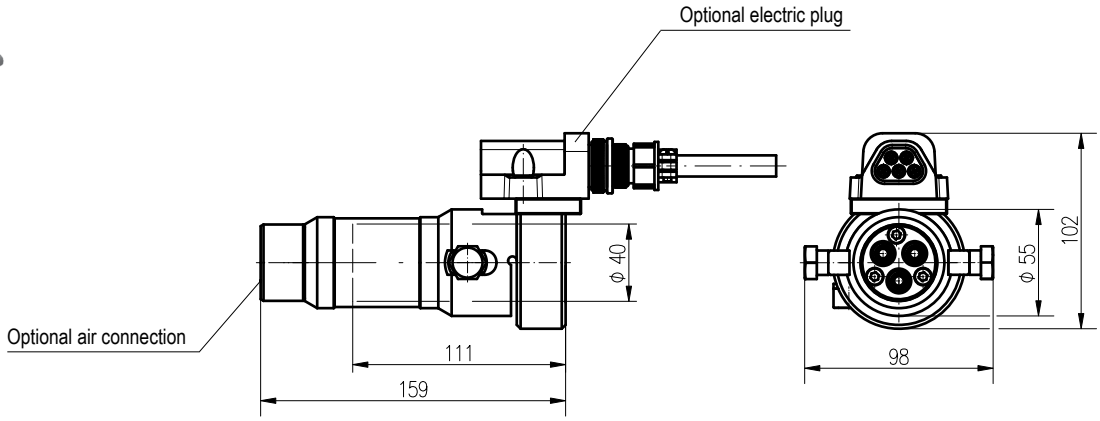
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Quick release disconnect and connection

Bayonet series 40



0.96 kg
Material: Aluminium

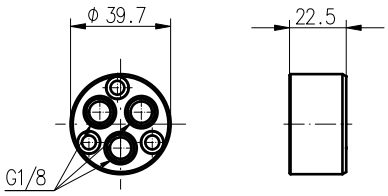


Ordering information		e.g.: TDC-40-2-A3-EL5
TDC-40-2	-	-
	Optional air connection	Optional electric plug
	↓	↓
	A3 (3 Port)	EL 5 (Plug with 5 Pin)
		EL10 (Plug with 10 Pin)

Air connection for bayonet series 40 and series 60



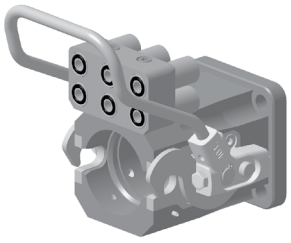
0.08 kg
Material: Aluminium



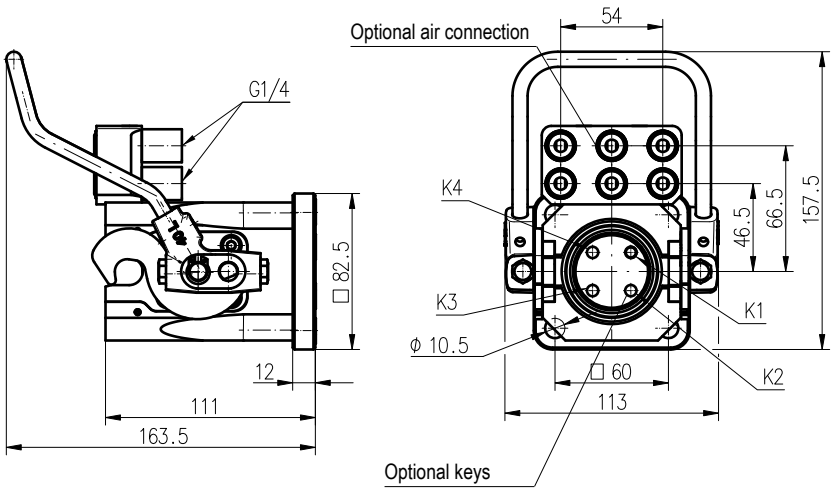
Part no.
RDK-40-1-A3

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Disconnect housing series 40 (flange mount)

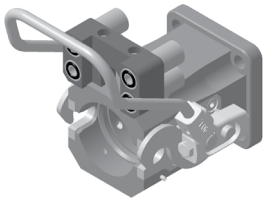


2.21 kg
Material: Aluminium

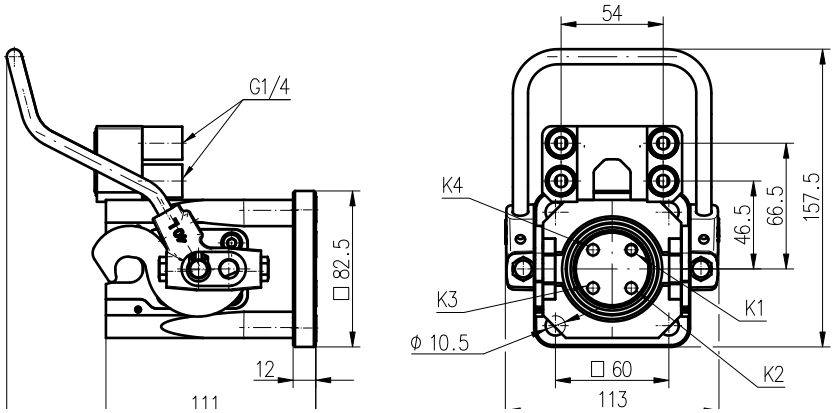


Ordering information		e.g.: TTN-40-1F-A4-K1-GM	
TTN-40-1F	-	-	-GM
	Optional air connection	Optional keys	
	↓	↓	
	A4 (4 Port)	K1	
	O4 (4 Port)	K2	
	O2-S2 (4 Port)	K3	
	A6 (6 Port)	K4	

Disconnect housing series 40 (flange mount)



2.07 kg
Material: Aluminium



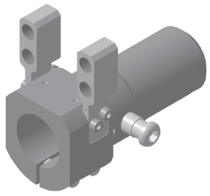
Ordering information			e.g.: TTN-40-1F-A4-K1-EL0-GM	
TTN-40-1F	-	-	-	-GM
	Optional air connection	Optional keys	Optional electric plug	
	↓	↓	↓	
	A4 (4 Port)	K1	EL0 (without electric plug)	
		K2		
		K3		
		K4		

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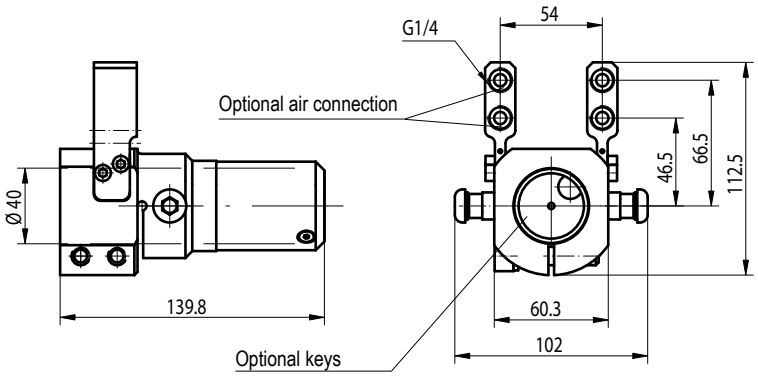
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Quick release disconnect and connection

Bayonet series 40

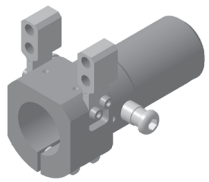


0.63 kg
Material: Aluminium

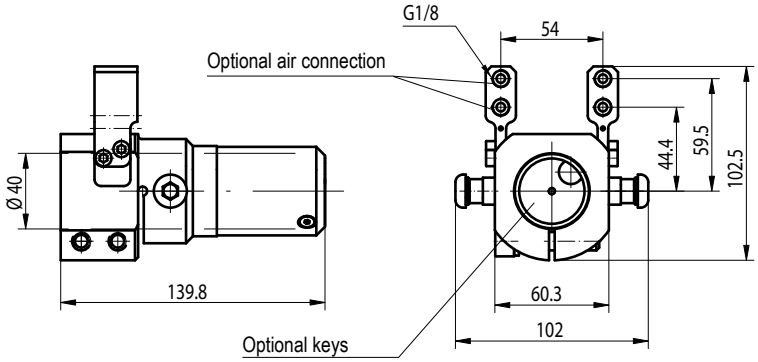


Ordering information		e.g.: TDC-40-A4-GM	
TDC-40	-	-	-GM
	Optional air connection	Optional keys	
	↓	↓	
	A4 (4 Port)	K0 (without key)	
	A6 (6 Port)	K1	
		K2	
		K3	
		K4	

Bayonet series 40



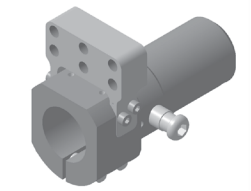
0.62 kg
Material: Aluminium



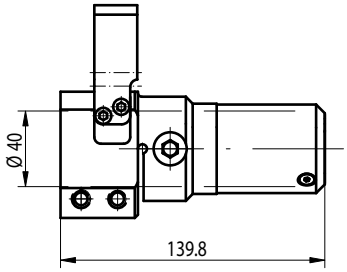
Ordering information		e.g.: TDC-40-A4-K2-VW	
TDC-40	-	-	-VW
	Optional air connection	Optional keys	
	↓	↓	
	A4 (4 Port)	K1	
		K2	
		K3	
		K4	

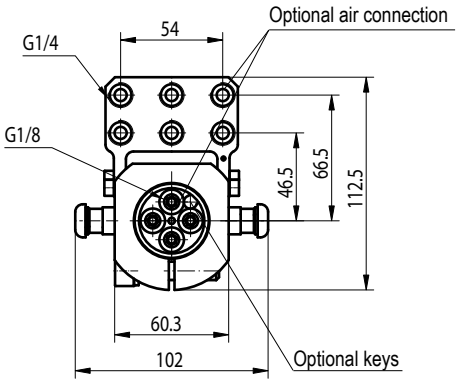
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Bayonet series 40



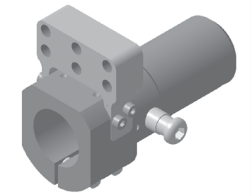
0.765 kg
Material: Aluminium



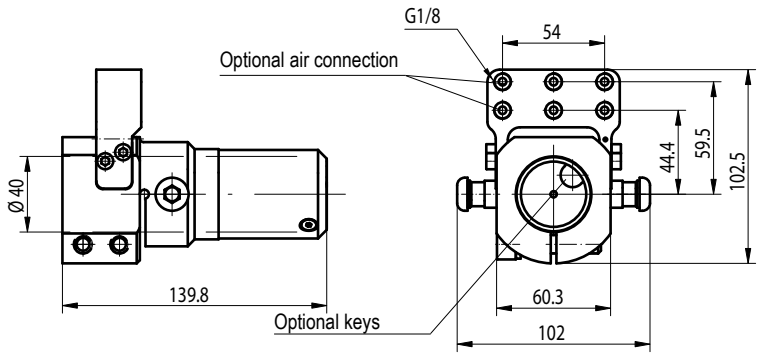


Ordering information		e.g.: TDC-40-AI4-A6-K2-GM	
TDC-40	-	-	-GM
	Optional air connection	Optional keys	
	↓	↓	
	AI4-A6 (10 Port)	K1	
		K2	
		K3	
		K4	

Bayonet series 40



0.701 kg
Material: Aluminium



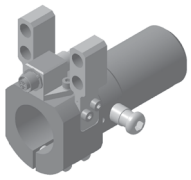
Ordering information		e.g.: TDC-40-A6-K2-JH41	
TDC-40	-	-	-JH41
	Optional air connection	Optional keys	
	↓	↓	
	A6 (6 Port)	K1	
		K2	
		K3	
		K4	

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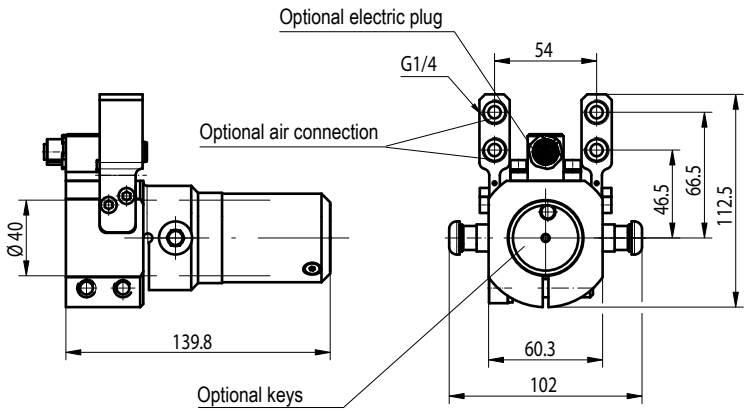
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Quick release disconnect and connection

Bayonet series 40



0.67 kg
Material: Aluminium

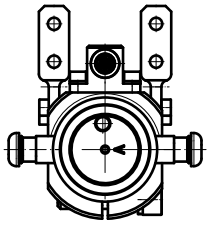
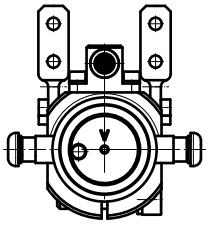
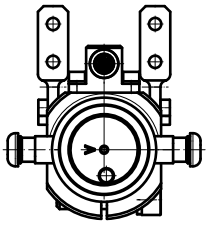
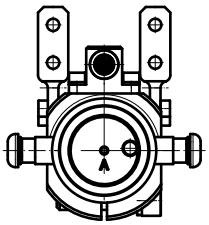
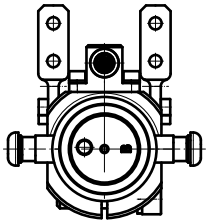
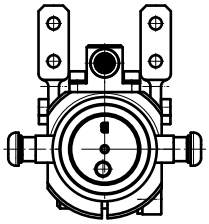
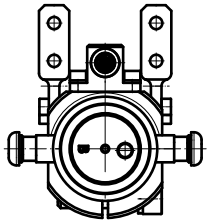
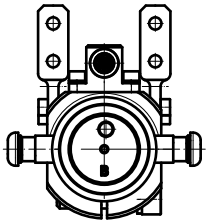
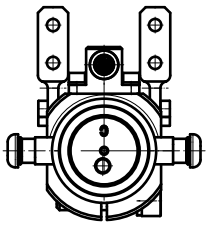
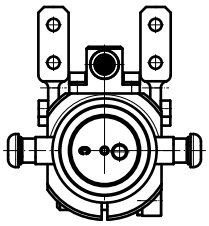
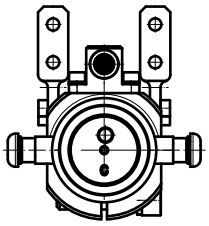
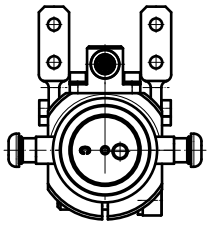
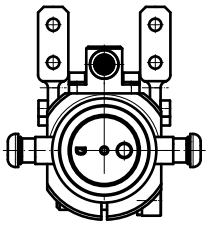
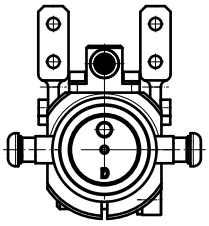
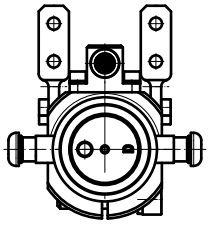
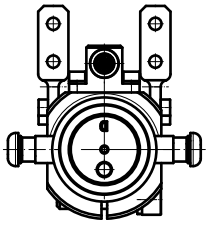


Ordering information				e.g.: TDC-40-A4-K3-VW2-EL5
TDC-40	-	-	-VW2	-
	Optional air connection	Optional keys		Optional electric plug
	↓	↓		↓
	A4 (4Port)	K1		EL 5 (Plug with 5 Pin)
		K2		
		K3		
		K4		
		K5		
		K6		
		K7		
		K8		
		K9		
		K10		
		K11		
		K12		
		K13		
		K14		
		K15		
		K16		

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Codeplan for bayonet series 40

	Position 1	Position 2	Position 3	Position 4
Coding disk A	 K1	 K5	 K9	 K13
Coding disk B	 K2	 K6	 K10	 K14
Coding disk C	 K3	 K7	 K11	 K15
Coding disk D	 K4	 K8	 K12	 K16

Part no. Coding disk	Identification Coding disk	Position 1	Position 2	Position 3	Position 4
TDC-40-K-VW2-P001	A	K1	K5	K9	K13
TDC-40-K-VW2-P002	B	K2	K6	K10	K14
TDC-40-K-VW2-P003	C	K3	K7	K11	K15
TDC-40-K-VW2-P004	D	K4	K8	K12	K16

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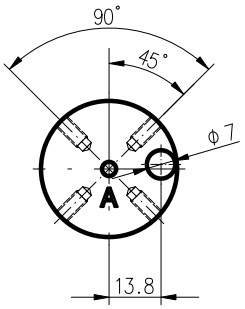
Quick release disconnect and connection

Coding disk A series 40



0.033 kg
Material: Aluminium

Part no.
TDC-40-K-VW2-P001

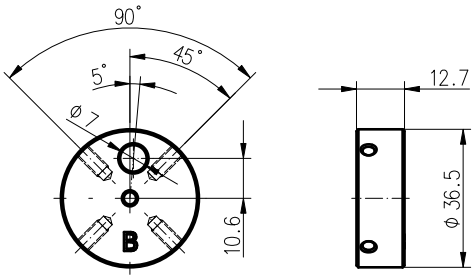


Coding disk B series 40



0.033 kg
Material: Aluminium

Part no.
TDC-40-K-VW2-P002

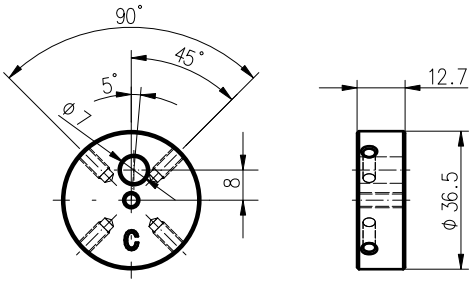


Coding disk C series 40



0.033 kg
Material: Aluminium

Part no.
TDC-40-K-VW2-P003

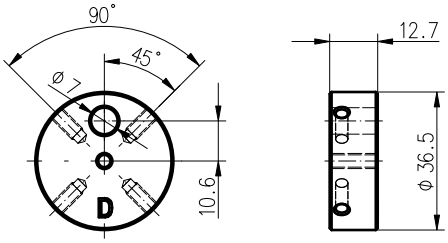


Coding disk D series 40



0.033 kg
Material: Aluminium

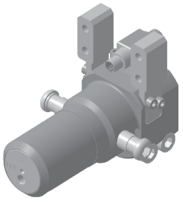
Part no.
TDC-40-K-VW2-P004



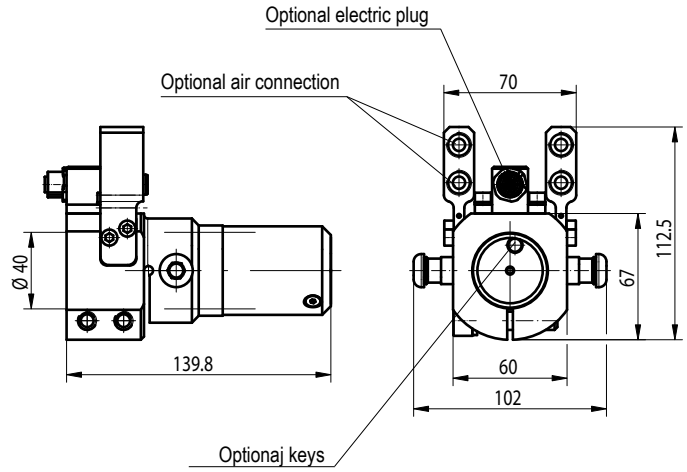
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Bayonet series 40



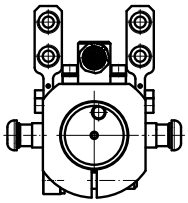
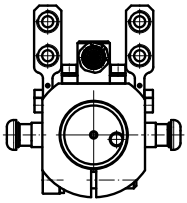
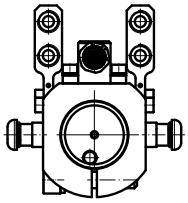
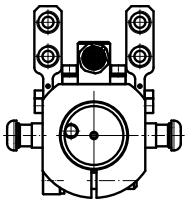
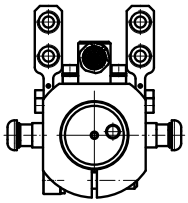
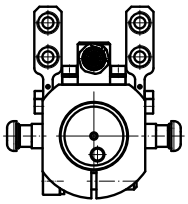
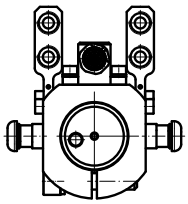
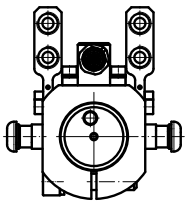
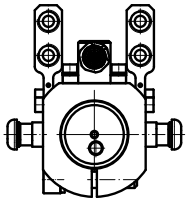
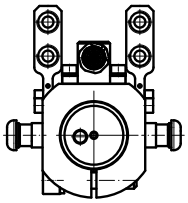
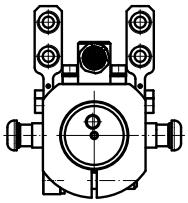
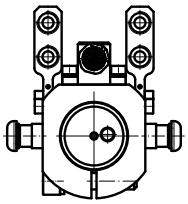
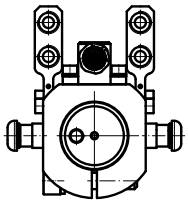
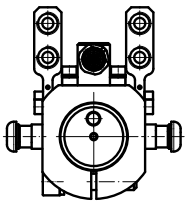
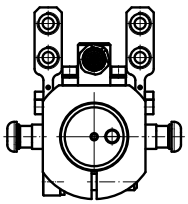
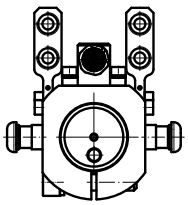
0.67 kg
Material: Aluminium



Ordering information				e.g.: TDC-40-A4-K3-MU-EL5
TDC-40	-	-	-MU	-
	Optional air connection	Optional keys		Optional electric plug
	↓	↓		↓
	A4 (4Port)	K1		EL 5 (Plug with 5 Pin)
		K2		
		K3		
		K4		
		K5		
		K6		
		K7		
		K8		
		K9		
		K10		
		K11		
		K12		
		K13		
		K14		
		K15		
		K16		

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Codeplan for bayonet series 40

	Position 1	Position 2	Position 3	Position 4
Coding disk A	 K1	 K5	 K9	 K13
Coding disk B	 K2	 K6	 K10	 K14
Coding disk C	 K3	 K7	 K11	 K15
Coding disk D	 K4	 K8	 K12	 K16

Part no. Coding disk	Identification Coding disk	Position 1	Position 2	Position 3	Position 4
TDC-40-K-MU-P001	A	K1	K5	K9	K13
TDC-40-K-MU-P002	B	K2	K6	K10	K14
TDC-40-K-MU-P003	C	K3	K7	K11	K15
TDC-40-K-MU-P004	D	K4	K8	K12	K16

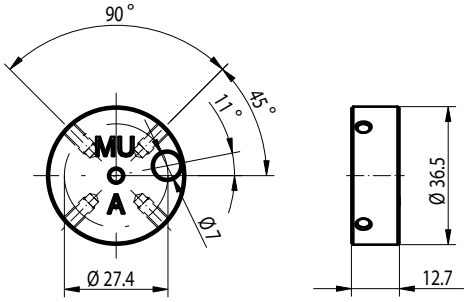
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Coding disk A series 40



0.035 kg
Material: Aluminium

Part no.
TDC-40-K-MU-P001

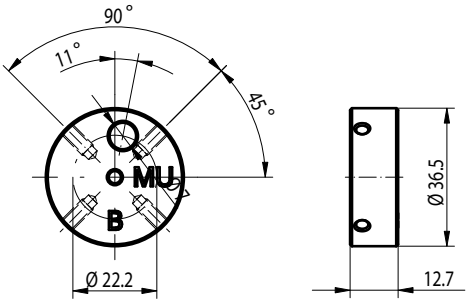


Coding disk B series 40



0.035 kg
Material: Aluminium

Part no.
TDC-40-K-MU-P002

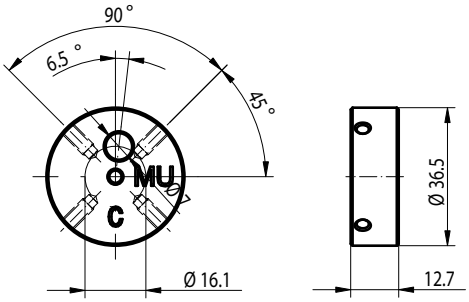


Coding disk C series 40



0.035 kg
Material: Aluminium

Part no.
TDC-40-K-MU-P003

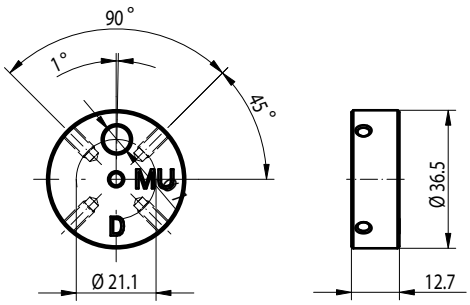


Coding disk D series 40



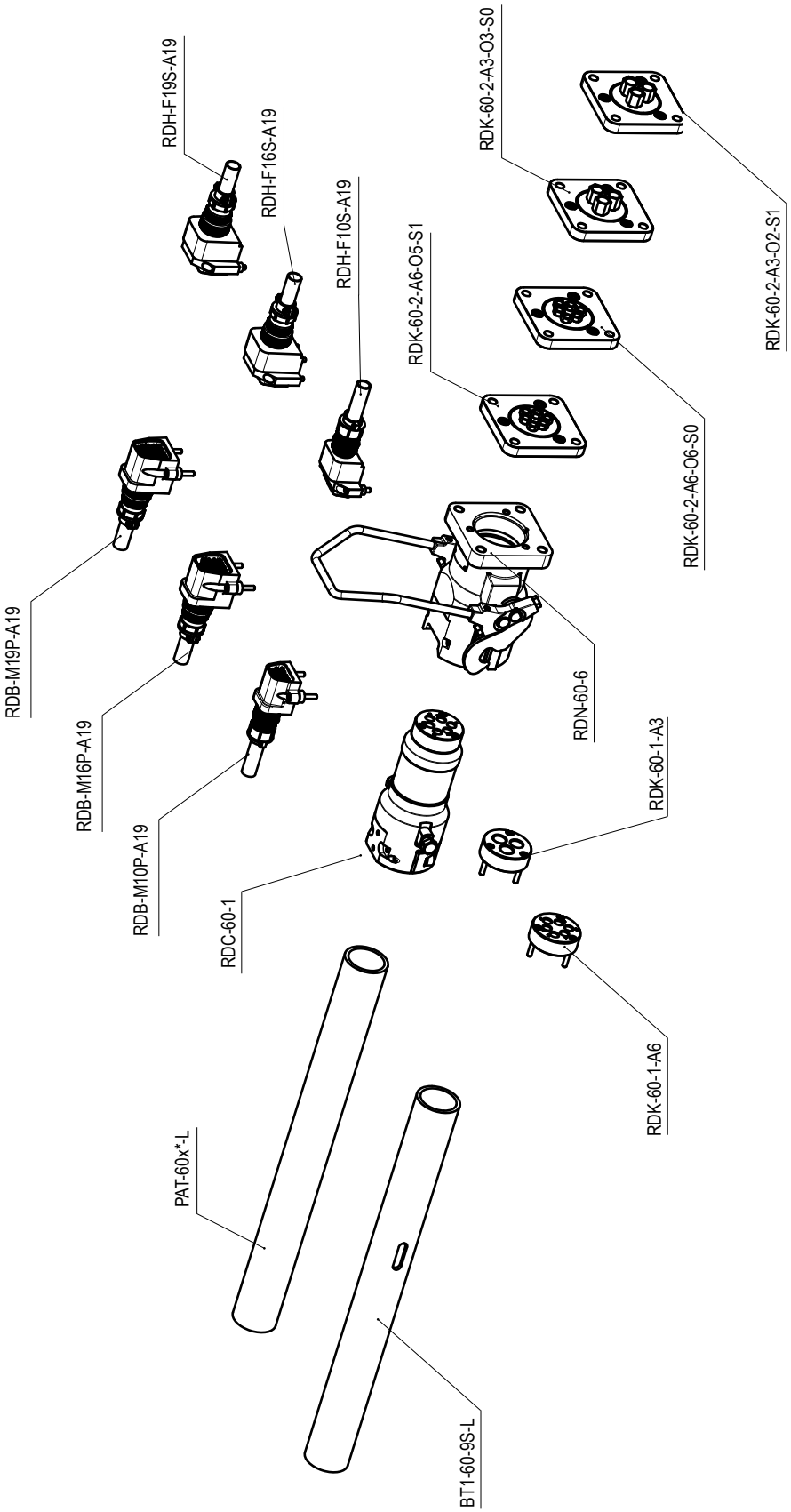
0.035 kg
Material: Aluminium

Part no.
TDC-40-K-MU-P004



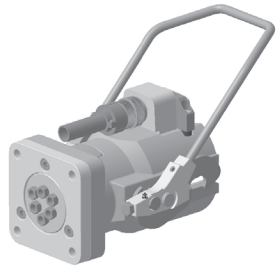
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Exploded on disconnect housing (flange mount) and bayonet series 60

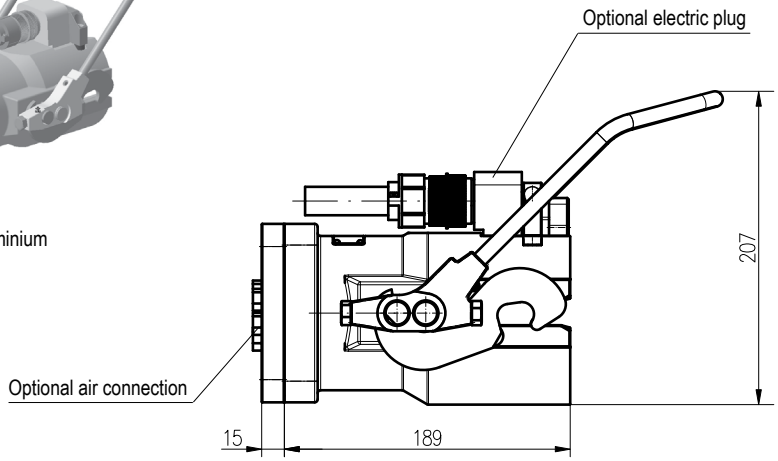


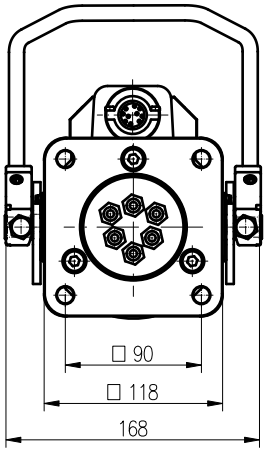
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Disconnect housing series 60 (flange mount)



4.55 kg
Material: Aluminium

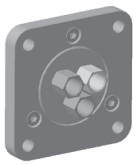




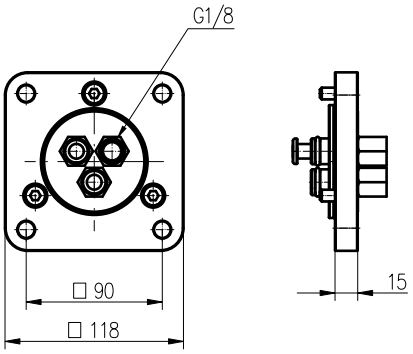
Ordering information		e.g.: RDN-60-6-O2-S1-EL10
RDN-60-6	-	-
	Optional air connection (Open nipple - shut off nipple)	Optional electric plug
	↓	↓
	O0 - S0	EL 10 (Socket for 10 Pin)
	O3 - S0	EL 16 (Socket for 16 Pin)
	O2 - S1	EL19 (Socket for 19 Pin)
	O6 - S0	
	O5 - S1	
	O4 - S2	

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Air connection for disconnect housing series 60 (flange mount)

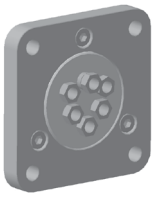


Material: Aluminium

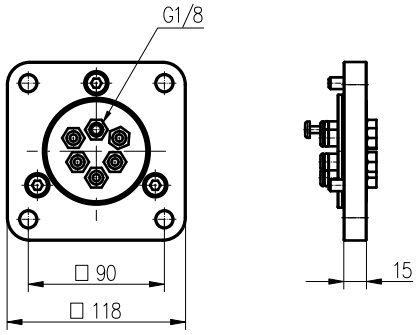


Part no.	Open nipple	Shut off nipple	(kg)
RDK-60-2-A3-O2-S1	O2	S1	0.67
RDK-60-2-A3-O3-S0	O3	S0	0.67

Air connection for disconnect housing series 60 (flange mount)



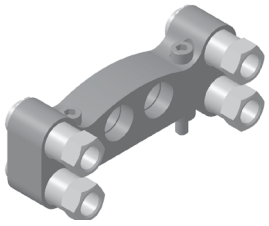
Material: Aluminium



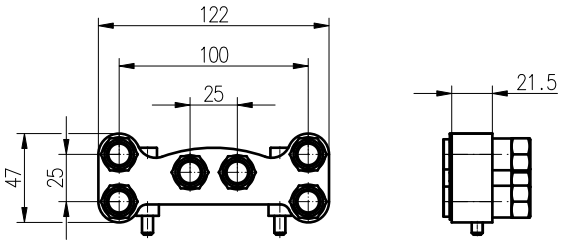
Part no.	Open nipple	Shut off nipple	(kg)
RDK-60-2-A6-O5-S1	O5	S1	0.64
RDK-60-2-A6-O6-S0	O6	S0	0.64

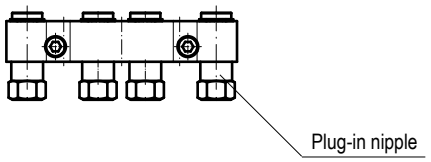
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Air connection for Disconnect housing series 60



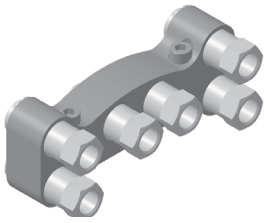
0.429 kg
Material: Aluminium



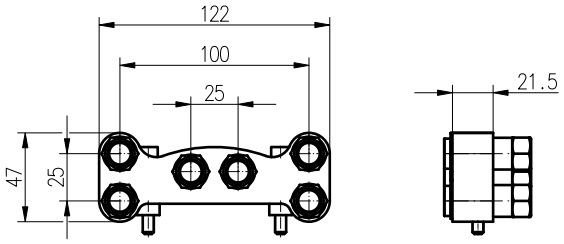


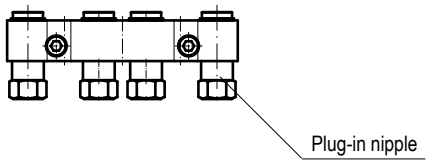
Part no.
RDK-60-2-AA4-6-G14

Air connection for Disconnect housing series 60



0.552 kg
Material: Aluminium





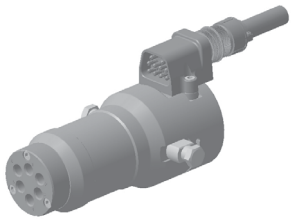
Part no.
RDK-60-2-AA6-6-G14

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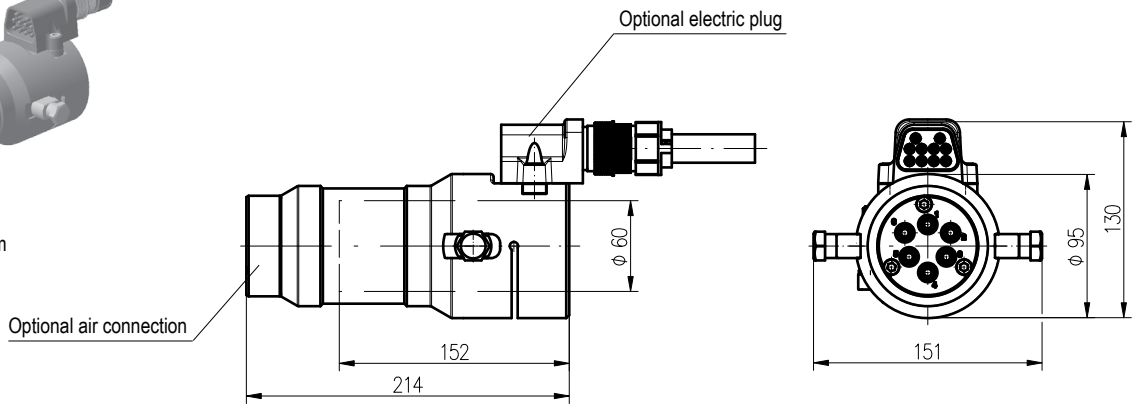
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Quick release disconnect and connection

Bayonet series 60



2.37 kg
Material: Aluminium



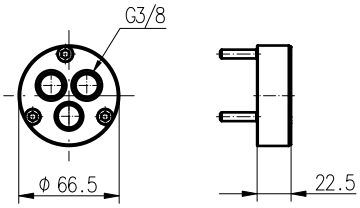
Ordering information		e.g.: RDC-60-1-A3-EL10
RDC-60-1	-	-
	Optional air connection	Optional electric plug
	↓	↓
	A3 (3 Port)	EL10 (Plug with 10 Pin)
	A6 (6 Port)	EL16 (Plug with 16 Pin)
		EL19 (Plug with 19 Pin)

Air connection for bayonet series 60

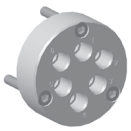


0.197 kg
Material: Aluminium

Part no.
RDK-60-1-A3

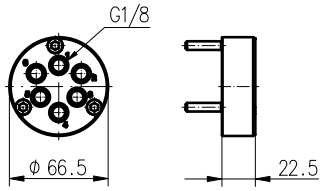


Air connection for bayonet series 60



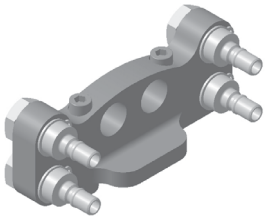
0.197 kg
Material: Aluminium

Part no.
RDK-60-1-A6



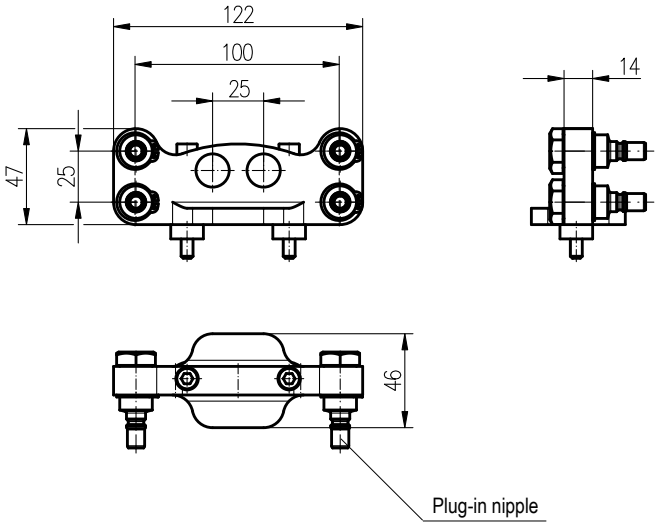
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Air connection for bayonet series 60

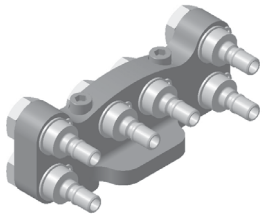


0.336 kg
Material: Aluminium

Part no.
RDK-60-1-AA4-6-G14

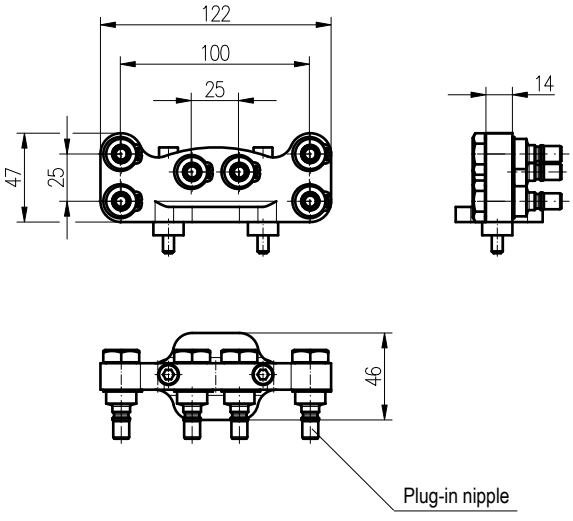


Air connection for bayonet series 60



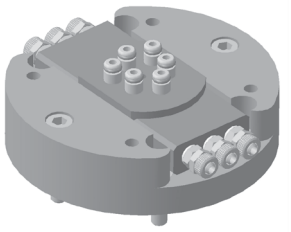
0.415 kg
Material: Aluminium

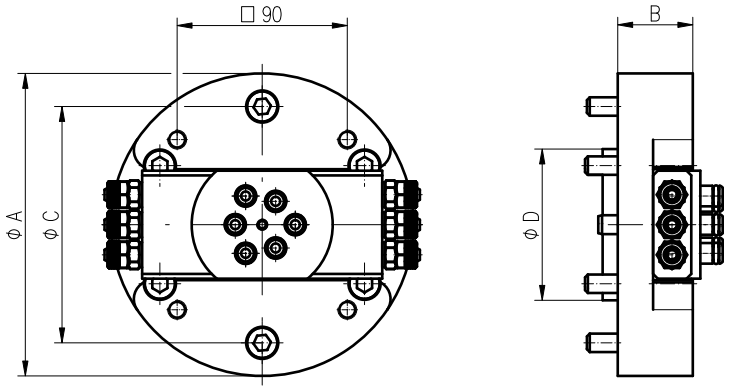
Part no.
RDK-60-1-AA4-6-G14



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Direct mount robot adapter series 60





Part no.	Ø A	B	Ø C	Ø D	(kg)	Robot model
ABB60-DM-RD60-A*	160	40	125	80	1.47	ABB IRB 6000
ABB64-DM-RD60-A*	160	40	125	80	1.47	ABB IRB 6400
CMX58-DM RD60-A*	160	40	100	70	0.99	ACMA X58
FA400-DM-RD60-A*	160	40	125	60	0.99	FANUC M-400
FA420-DM-RD60-A*	160	40	125	60	0.99	FANUC S-420
FA500-DM-RD60-A*	160	40	125	60	0.99	FANUC M-500
FA900-DM-RD60-A*	160	40	125	80	1.47	FANUC S-900
KW150-DM-RD60-A*	160	40	92	55	0.99	KAWASAKI UK-150
KA760-DM-RD60-A*	190	32	160	100	1.76	KUKA760
MMNY300-DM-RD60-A*	229	40	200	160	2.04	MOTOMAN NY300
MMK100-DM-RD60-A*	152	40	125	63	1.47	MOTOMAN K100
Custom-DM-RD60-A*	-	-	-	-	-	-

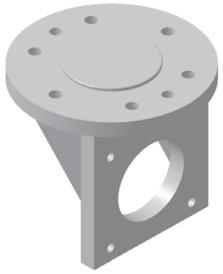
Ordering information e.g.: KA760-DM-RD60-A3

	-DM-RD60	-
		Optional air connection
↓		↓
ABB60		A3 (3 Port)
ABB64		A6 (6 Port)
CMX58		
FA700		
FA420		
FA500		
FA900		
KW150		
KA760		
MMNY300		
MMK100		

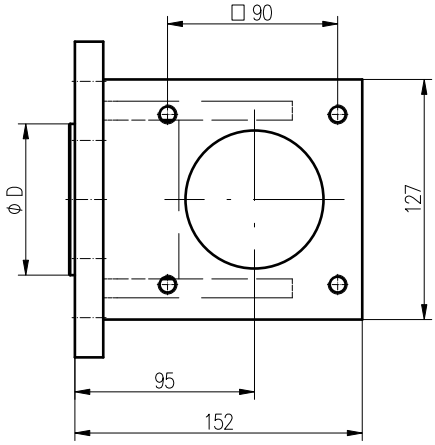
Note: Other versions available.
Please contact your sales engineer for details

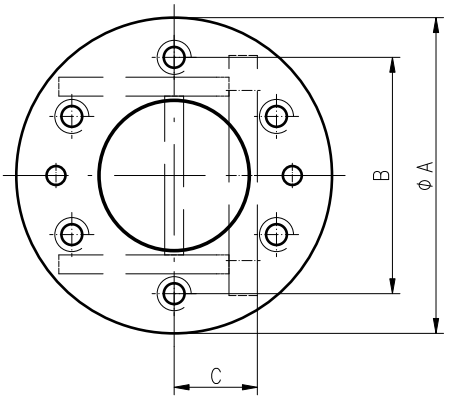
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Robot mount 90°



Material: Steel





Part no.	Ø A	B	Ø C	Ø D	(kg)	Robot model
ABB60-90-RD60-A*	165	125	44	80	4.13	ABB IRB 6000
ABB64-90-RD60-A*	165	125	44	80	4.13	ABB IRB 6400
CMX58-90 RD60-A*	127	100	76	70	3.68	ACMA X58
FA400-90-RD60-A*	160	125	76	60	3.86	FANUC M-400
FA420-90-RD60-A*	160	125	76	60	3.86	FANUC S-420
FA500-90-RD60-A*	160	125	76	60	3.86	FANUC M-500
FA900-90-RD60-A*	165	125	44	80	4.13	FANUC S-900
KW150-90-RD60-A*	152	92	29	55	3.97	KAWASAKI UK-150
KA760-90-RD60-A*	190	160	57	100	5.07	KUKA760
MMNY300-90-RD60-A*	229	200	44	160	5.28	MOTOMAN NY300
MMK100-90-RD60-A*	165	125	44	63	4.13	MOTOMAN K100

Ordering information	e.g.: KA760-90-RD60-A36
	-90-RD60-A36
↓	
ABB60	
ABB64	
CMX58	
FA700	
FA420	
FA500	
FA900	
KW150	
MMNY300	
MMK100	

Note: Other versions available.
Please contact your sales engineer for details

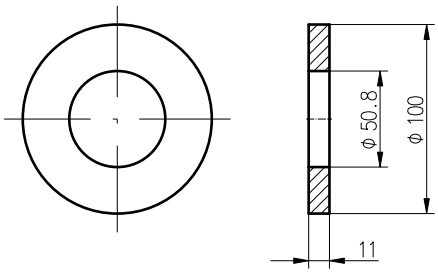
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Eccentric ring



0.174 kg
Material: Aluminium

Part no.	Robot model
KA760-4	KUKA 760

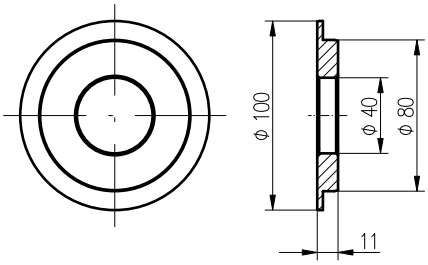


Eccentric ring

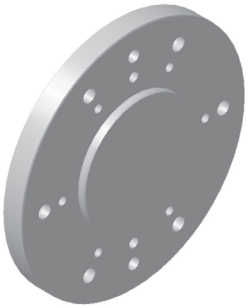


0.135 kg
Material: Aluminium

Part no.	Robot model
FA430-01	FANUC S-430
	ABB IRB 6400

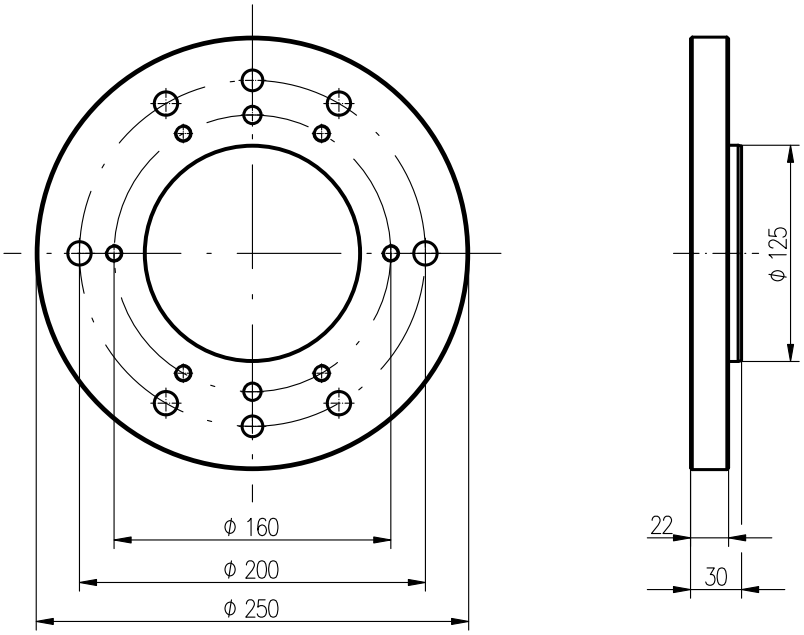


Intermediate plate



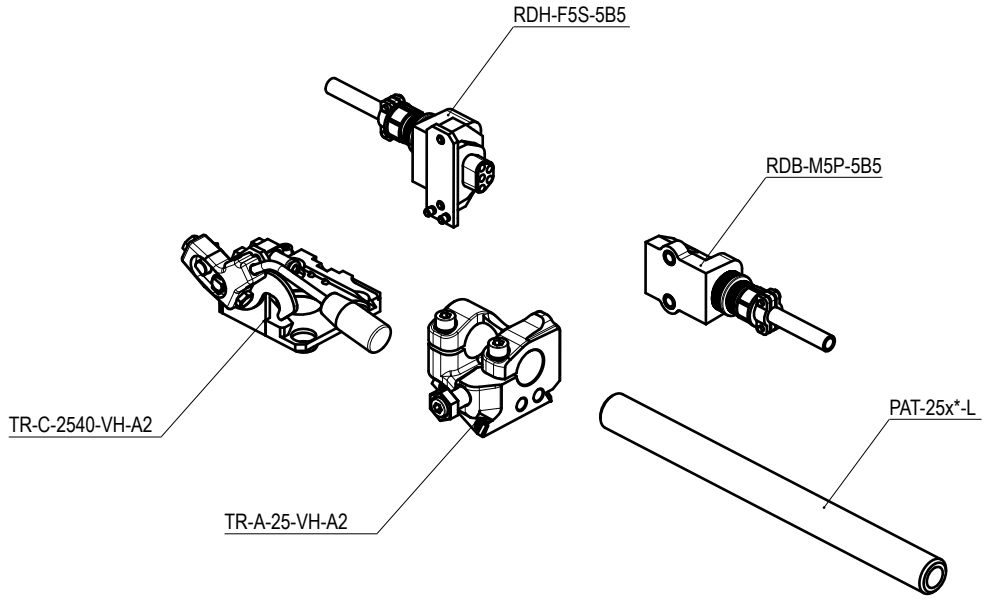
0.174 kg
Material: Aluminium

Part no.	Robot model
KA760-FA-M900-260L	FANUC M900iA/260L

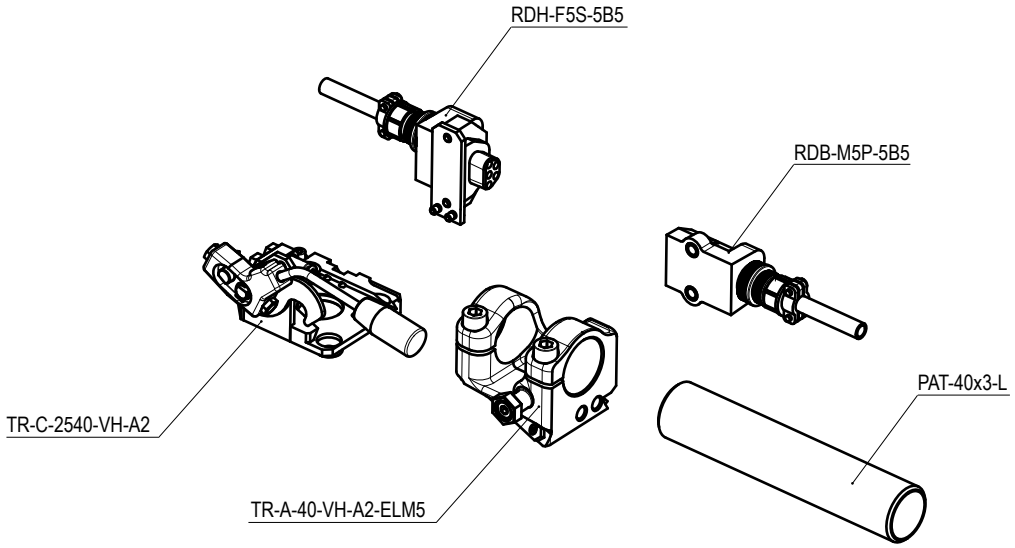


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Exploded on disconnect plate and bayonet series 25



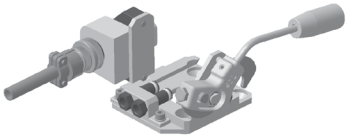
Exploded on disconnect plate and bayonet series 40

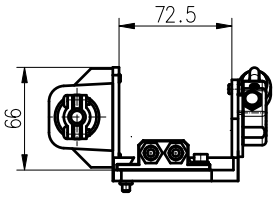


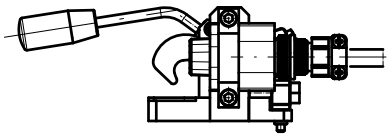
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Quick release disconnect and connection

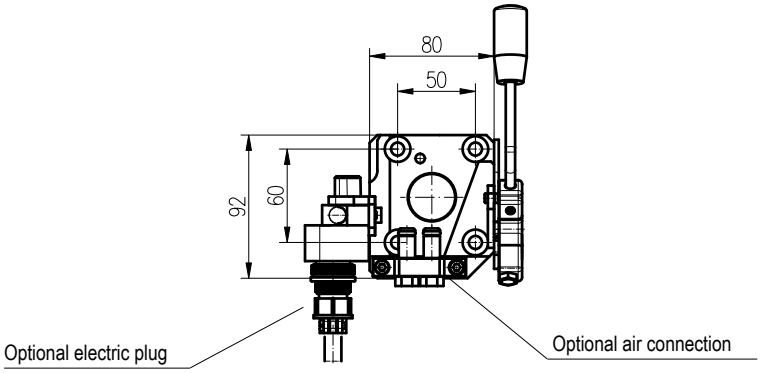
Disconnect plate series 25 and 40





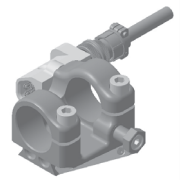


Material: Aluminium

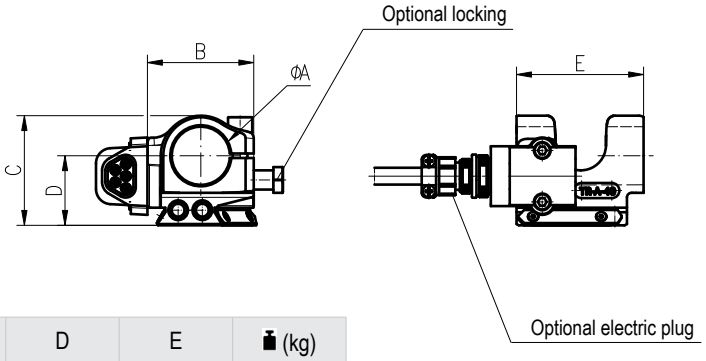


Ordering information		e.g.: TR-C-2540-VH-A2-EL5
TR-C-2540-VH	-	-
	Optional air connection	Optional electric plug
	↓	↓
	A2	EL 5 (Socket with 5 Pin)
	(Open nipple - shut off nipple)	
	↓	
	O0 - S2	

Bayonet series 25 und 40



Material: Aluminium

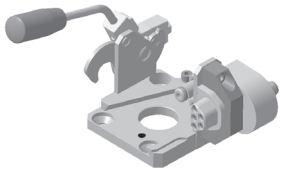


Part no.	Ø A	B	C	D	E	(kg)
TR-A-25-VH-A2-EL5	25	70	55.5	35	71	0.60
TR-A-40-VH-A2-EL5	40	73	72.5	46	84	0.68

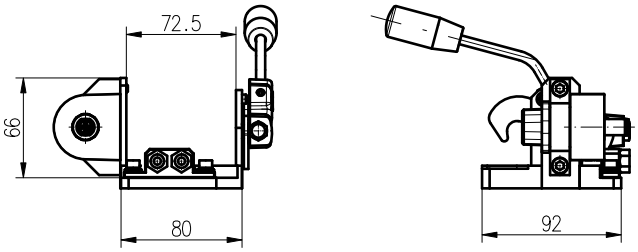
Ordering information				e.g.: TR-A-25-VH-A2-EL5
TR-A-	- A	-VH	-	-
	Size		Optional air connection	Optional electric plug
	↓		↓	↓
	25		A2	EL 5 (Plug for 5 Pin)
	40			

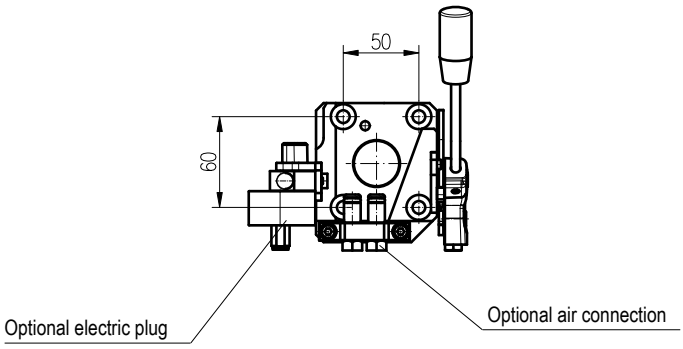
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Disconnect plate series 40



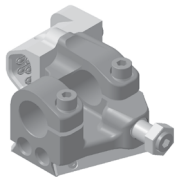
0.995 kg
Material: Steel



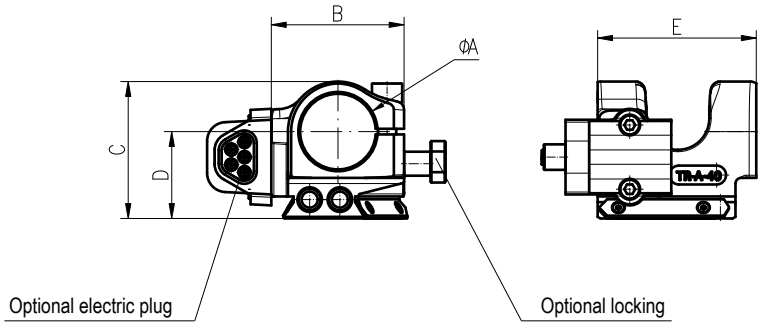


Part no.
TR-C-2540-VH-A2-EL5M

Bayonet series 25 und 40



Material: Aluminium



Part no.	Ø A	B	C	D	E	(kg)
TR-A-25-VH-A2-EL5M	25	55	59.0	35	71	0.525
TR-A-40-VH-A2-EL5M	40	70	72.5	46	84	0.652

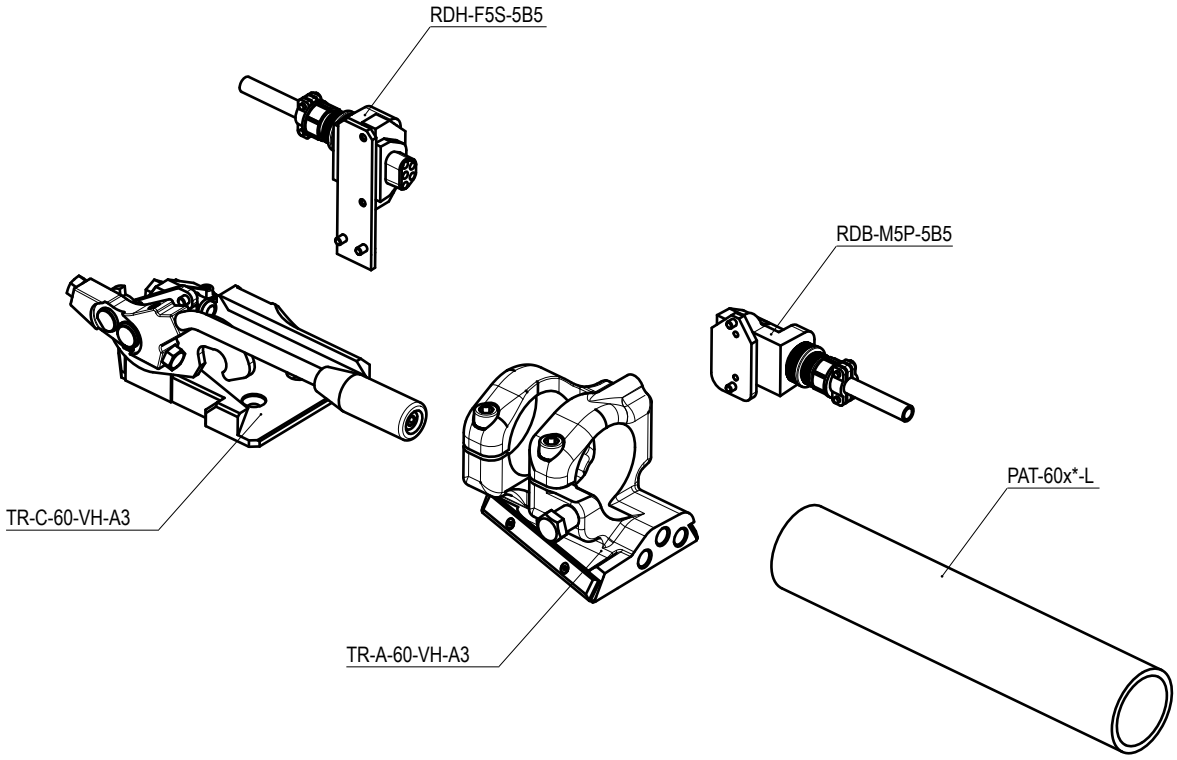
Ordering information e.g.: TR-A-25-VH-A2-EL5-M

TR-A-	- A	-VH	-	-	-M
	Size		Optional air connection	Optional electric plug	
	↓		↓	↓	
	25		A2	EL 5 (Plug for 5 Pin)	
	40				

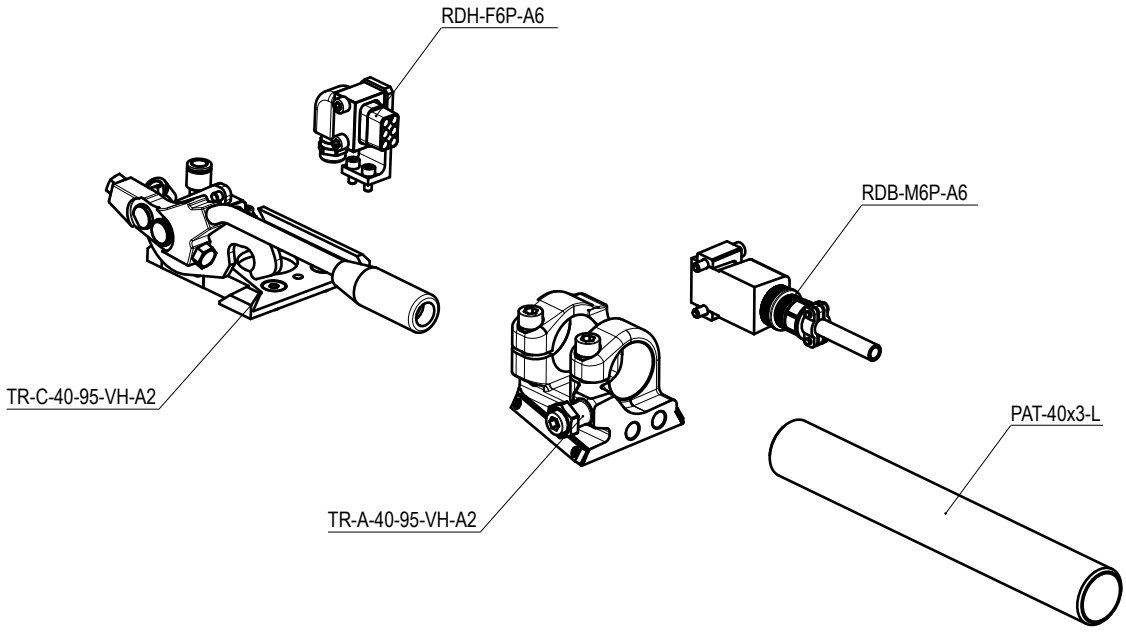
Subject to modification
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Exploded on disconnect plate and bayonet series 60

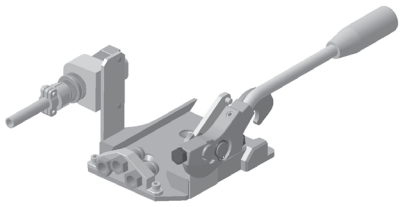


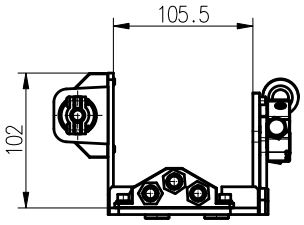
Exploded on disconnect plate and bayonet series 40

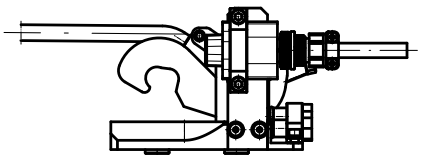


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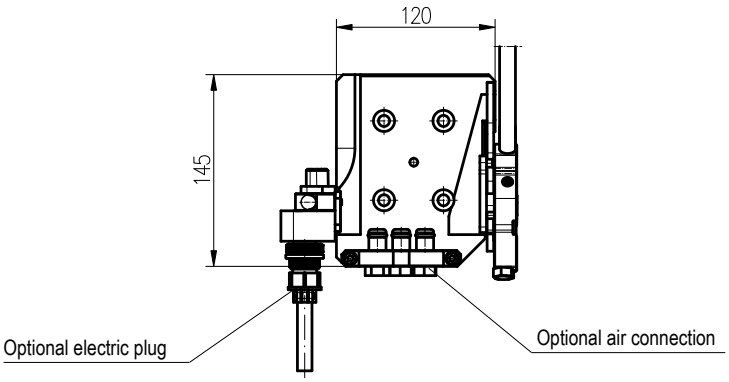
Disconnect plate series 60





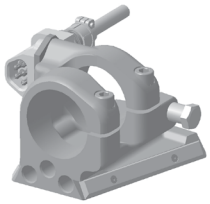


Material: Aluminium

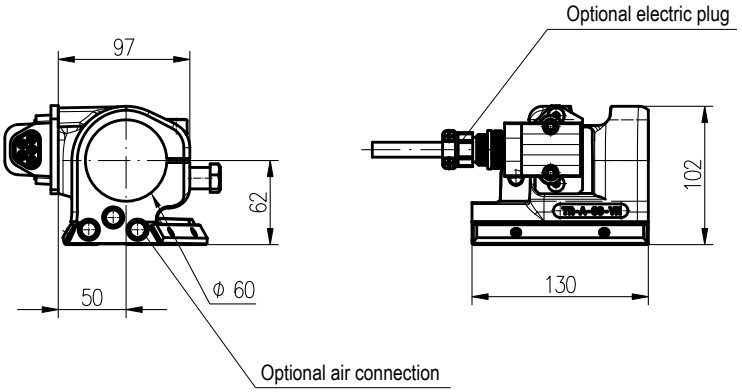


Ordering information		e.g.: TR-C-60-VH-A3-EL5
TR-C-60-VH	-	-
	Optional air connection	Optional electric plug
	↓	↓
	A3	EL 5 (Socket for 5 Pin)
	A5	

Bayonet series 60



Material: Aluminium



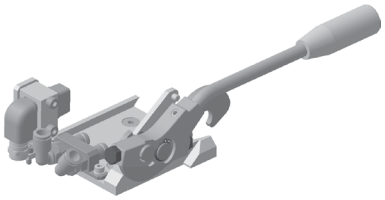
Ordering information		e.g.: TR-A-60-VH-A3-EL5
TR-A-60-VH	-	-
	Optional air connection	Optional electric plug
	↓	↓
	A3	EL 5 (Plug for 5 Pin)
	A5	

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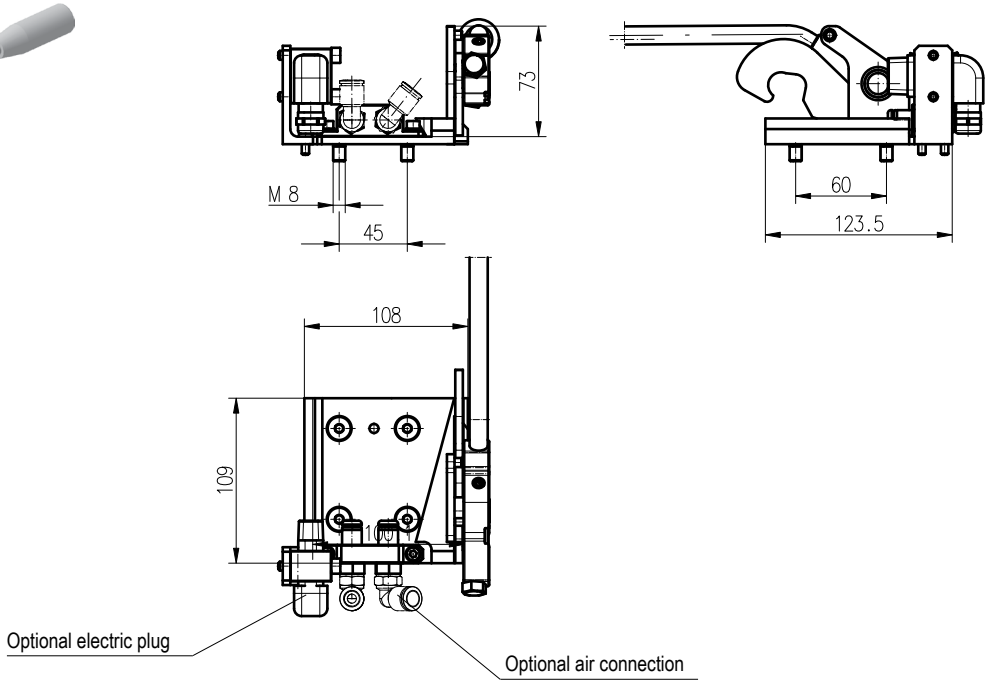
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Quick release disconnect and connection

Disconnect plate series 40

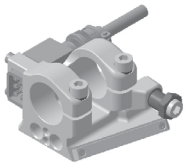


Material: Aluminium

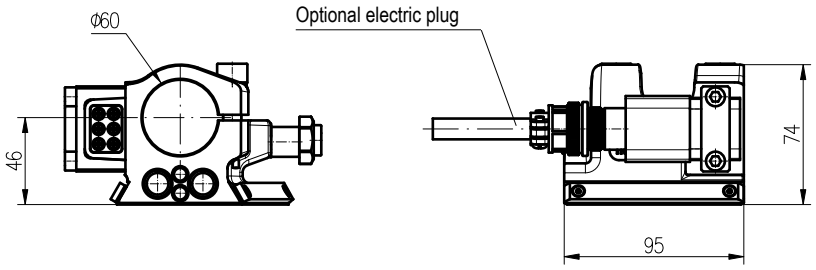


Part no.	(kg)
TR-C-40-95-VH-A2	1.32
TR-C-40-95-VH-A2-EL6	1.45

Bayonet series 40



Material: Aluminium

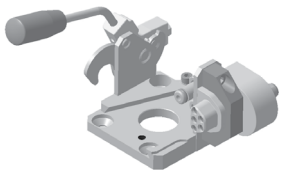


Part no.	(kg)
TR-A-40-95-VH-A2	0.76
TR-A-40-95-VH-A2-EL6	0.90

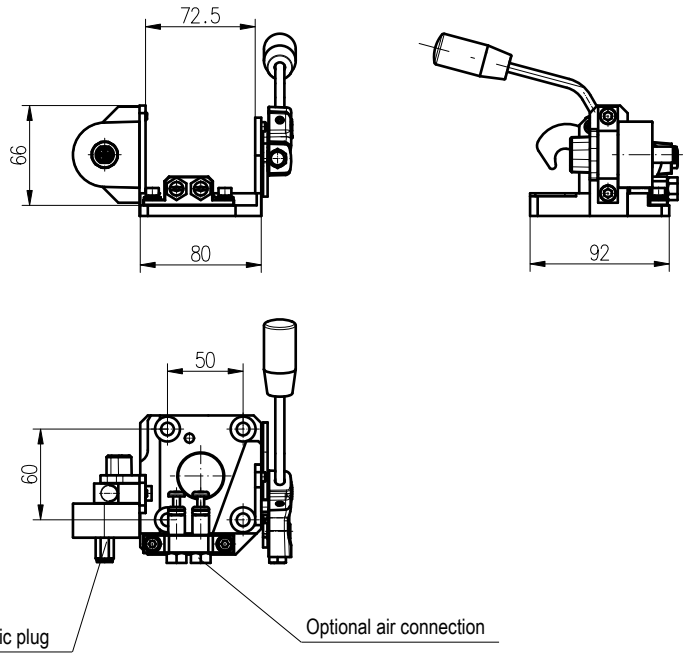
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Disconnect plate series 40

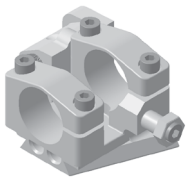


0.995 kg
Material: Steel

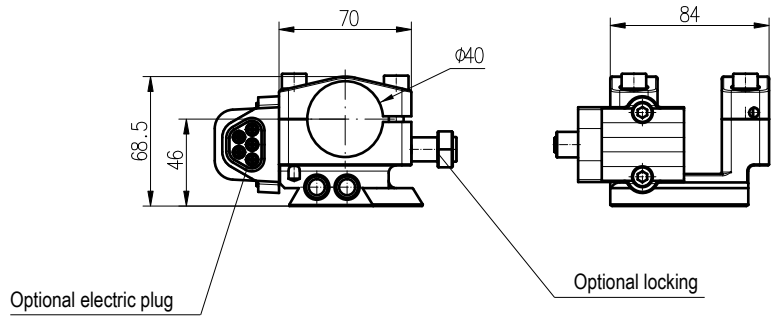


Part no.
TR-C-2540-VH-S2F-EL5M

Bayonet



1.383 kg
Material: Steel

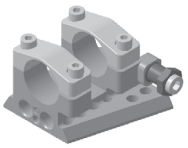


Part no.
TR-A-40-S-VH-A2-EL5M

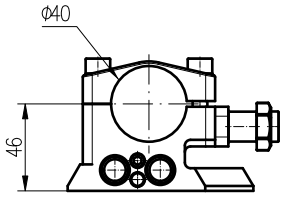
Subject to modification
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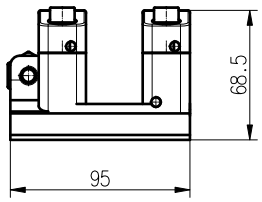
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Bayonet series 40



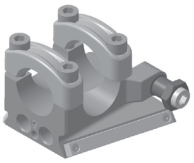
1.55 kg
Material: Aluminium



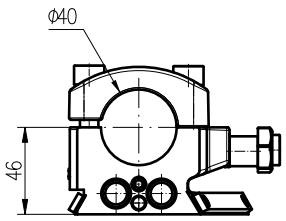


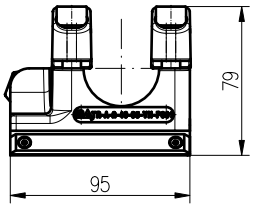
Part no.
TR-A-40-95-S-VH-A2-C

Bayonet series 40



0.51 kg
Material: Aluminium





Part no.
TR-A-2-40-95-VH-A2-C

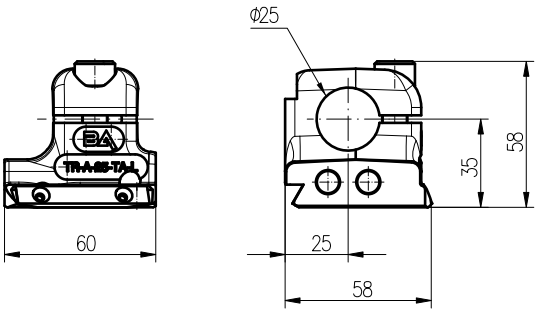
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Bayonet



0.248 kg
Material: Aluminium

Part no.
TR-A-25-TA-L-A2

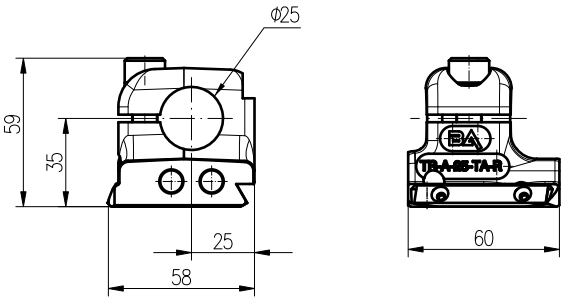


Bayonet



0.248 kg
Material: Aluminium

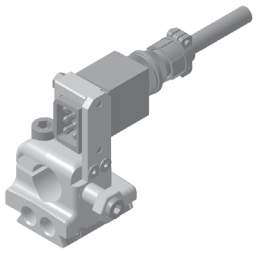
Part no.
TR-A-25-TA-R-A2



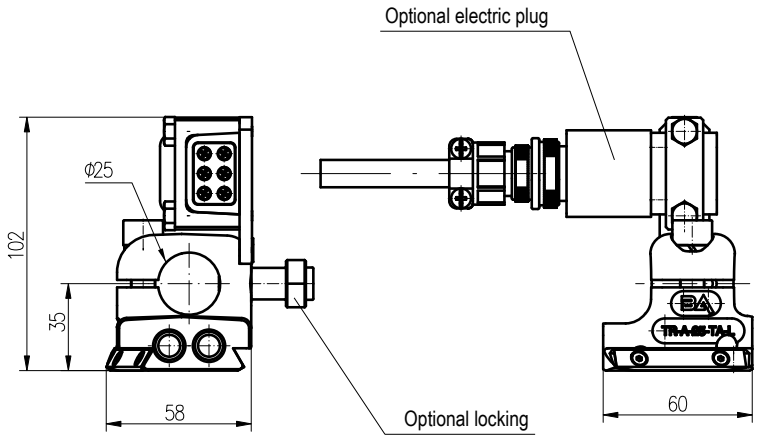
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Quick release disconnect and connection

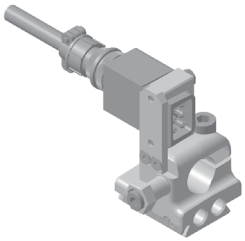
Bayonet, left



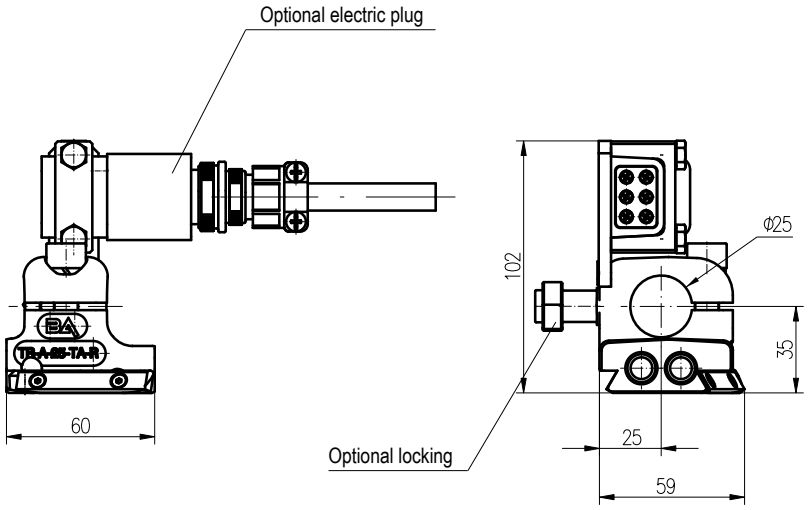
0.51 kg
Material: Aluminium



Bayonet, right



0.51 kg
Material: Aluminium



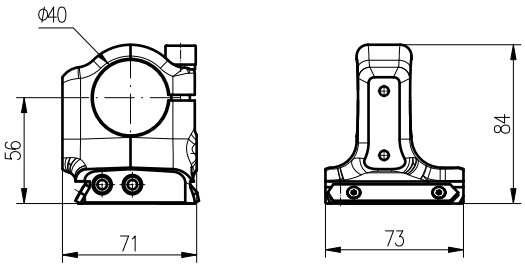
Ordering information			e.g.: TR-A-25-TA-V-A2-EL6
TR-A-25-TA	-	-	-L
		Optional locking	Optional electric plug
	↓	↓	↓
	L (left)	V	EL 6 (Plug 6 pins)
	R (right)		

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Bayonet, left



0.38 kg
Material: Aluminium

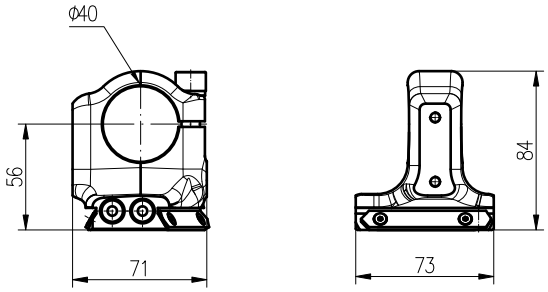


Part no.
TR-A-40-1-A2-L

Bayonet, right



0.38 kg
Material: Aluminium



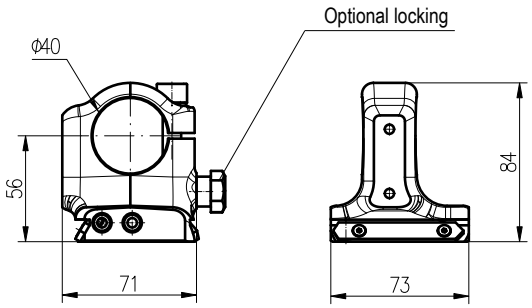
Part no.
TR-A-40-1-A2-R

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Bayonet, left



0.420 kg
Material: Aluminium

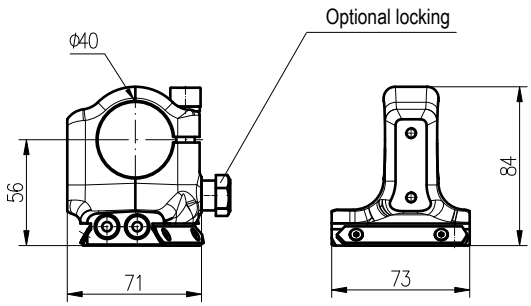


Part no.
TR-A-40-1-V-A2-L

Bayonet, right



0.420 kg
Material: Aluminium

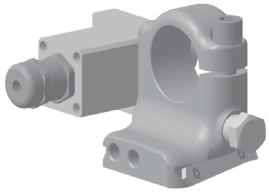


Part no.
TR-A-40-1-V-A2-R

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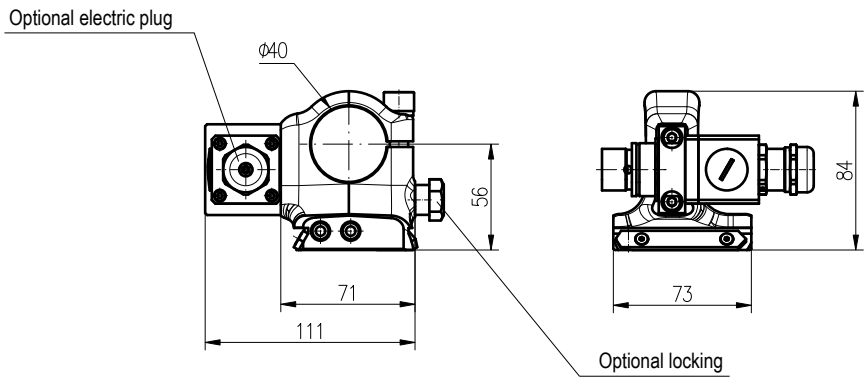
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Bayonet, left

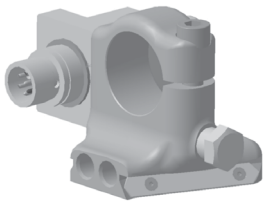


0.58 kg
Material: Aluminium

Part no.
TR-A-40-2-V-A2-L-EL7

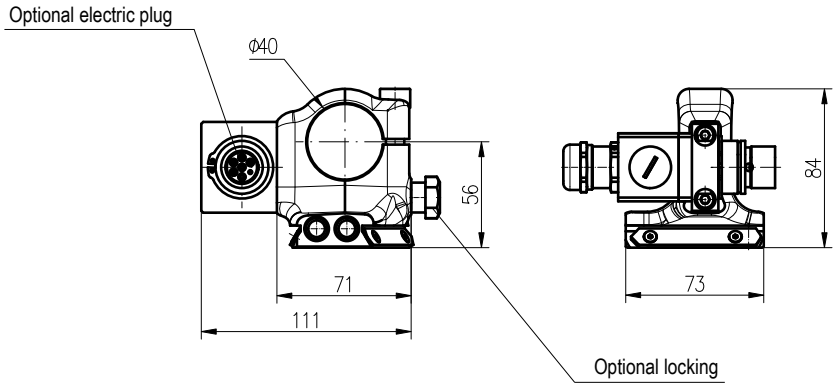


Bayonet, right



0.58 kg
Material: Aluminium

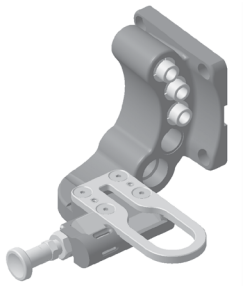
Part no.
TR-A-40-2-V-A2-R-EL7



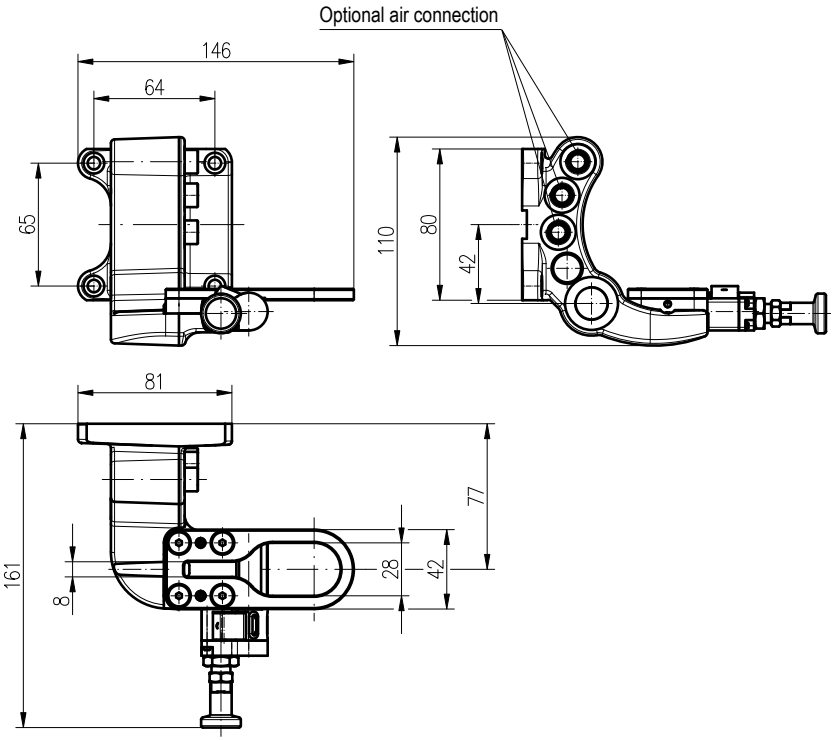
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Quick release disconnect and connection

Coupling with locking + air, left

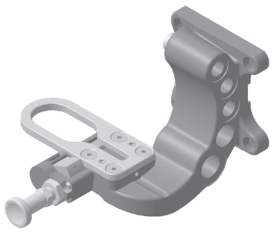


0.779 kg
Material: Aluminium / Steel

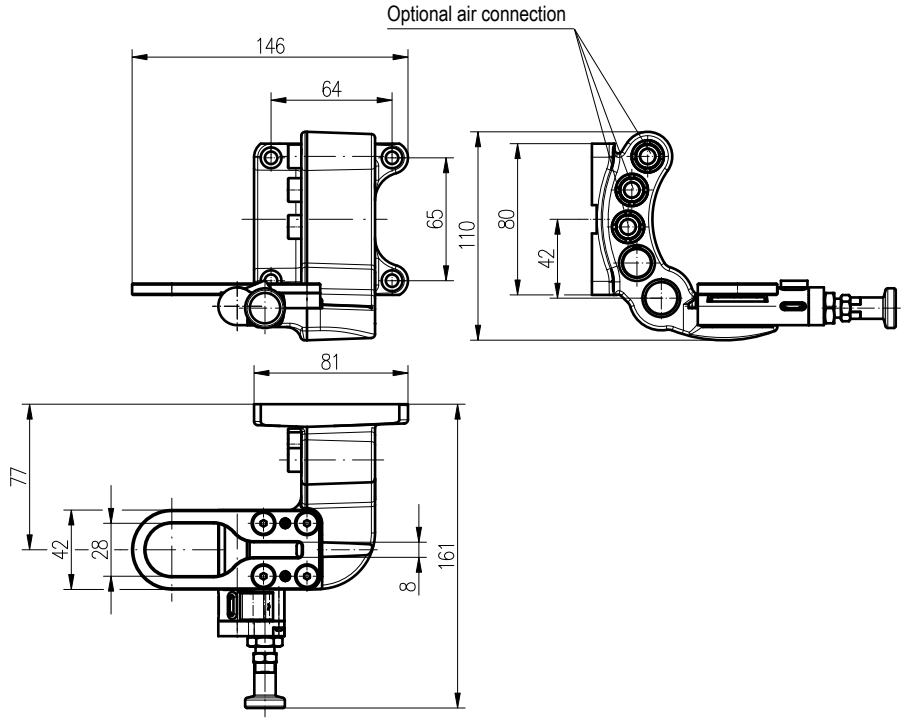


Part no.
CBF-AT-80-A3-G14-V-L

Coupling with locking + air, right



0.779 kg
Material: Aluminium / Steel

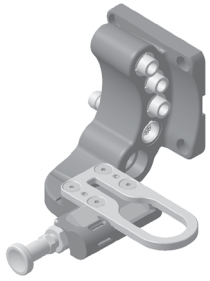


Part no.
CBF-AT-80-A3-G14-V-R

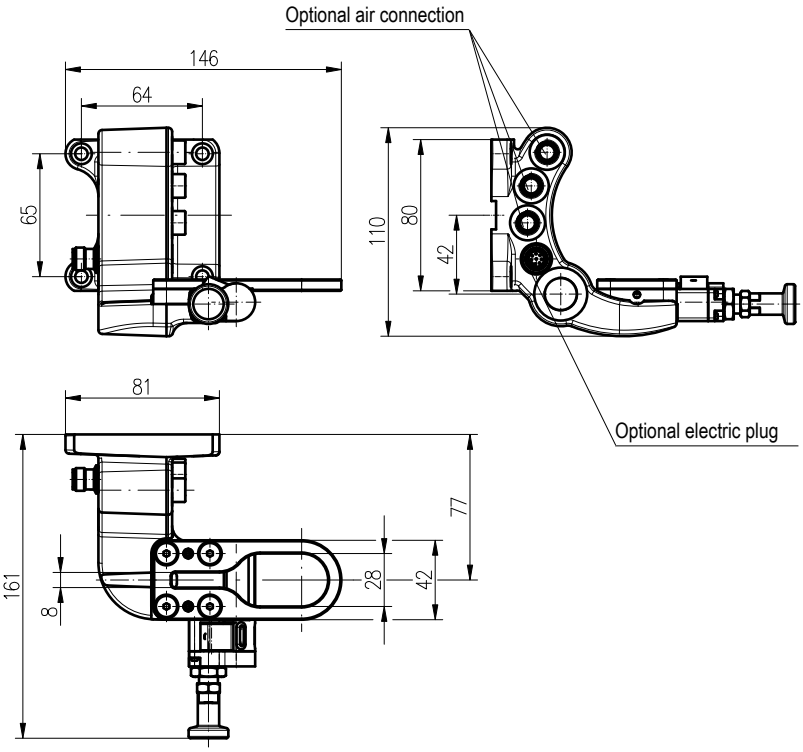
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Coupling with locking + air + electric, left

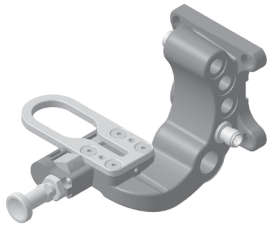


0.832kg
Material: Aluminium / Steel

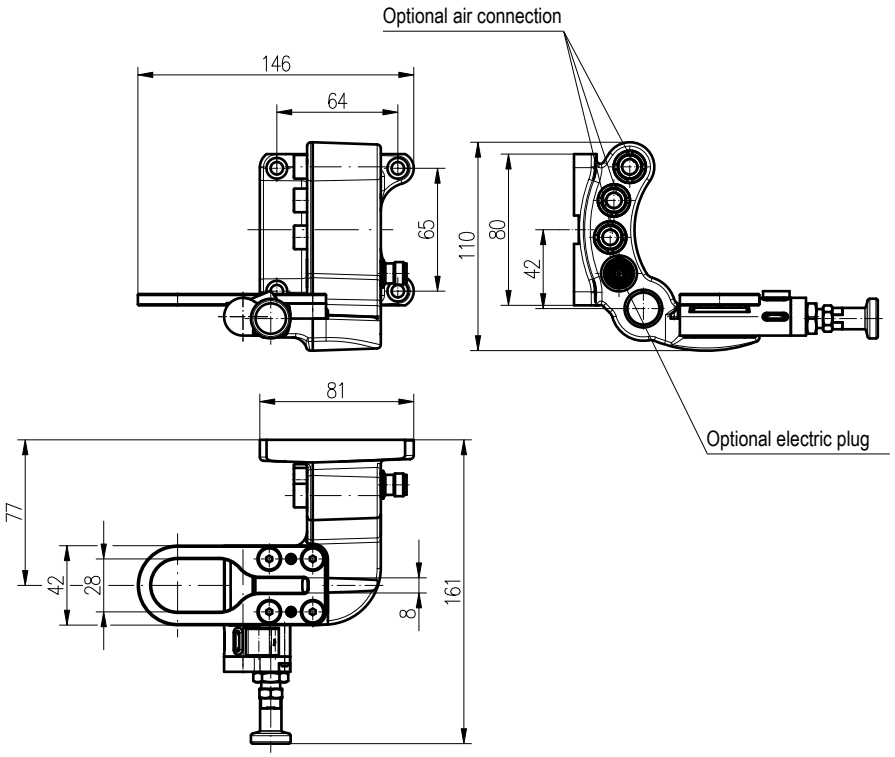


Part no.
CBF-AT-80-A3-G14-V-EL8-L

Coupling with locking + air + electric, right



0.832 kg
Material: Aluminium / Steel



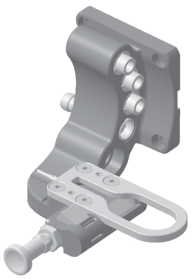
Part no.
CBF-AT-80-A3-G14-V-EL8-R

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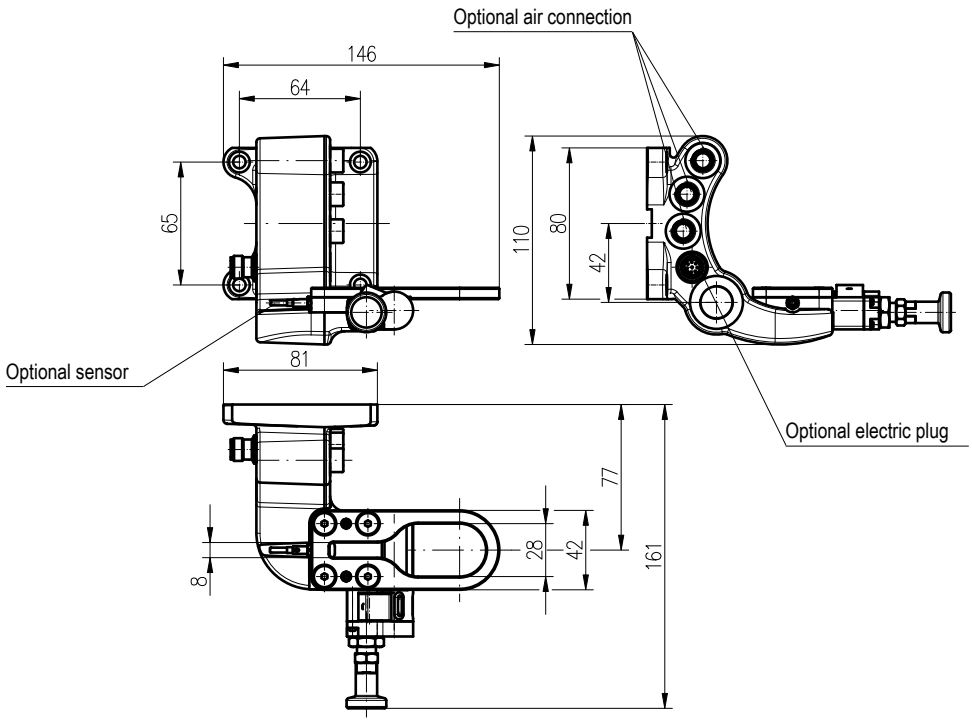
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Quick release disconnect and connection

Coupling with locking + air + electric + sensor, left

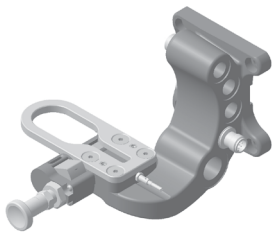


0.835 kg
Material: Aluminium / Steel

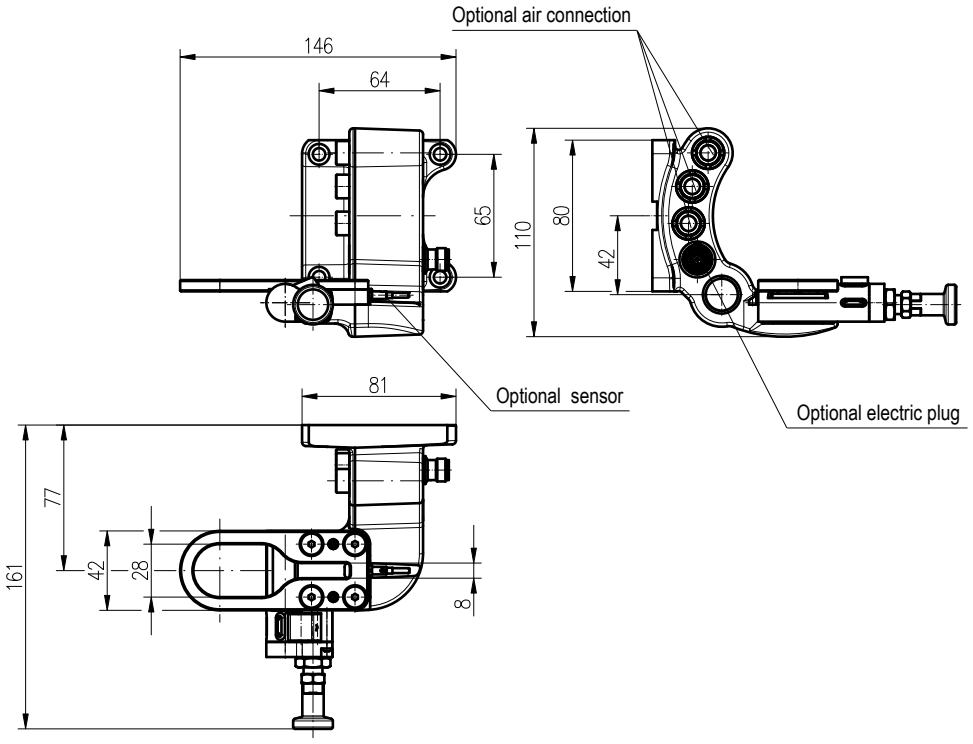


Part no.
CBF-AT-80-A3-G14-V-EL8-S-L

Coupling with locking + air + electric + sensor, right



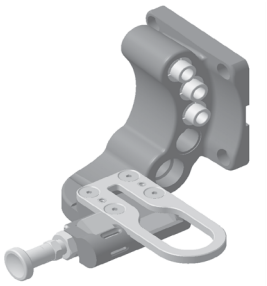
0.835 kg
Material: Aluminium / Steel



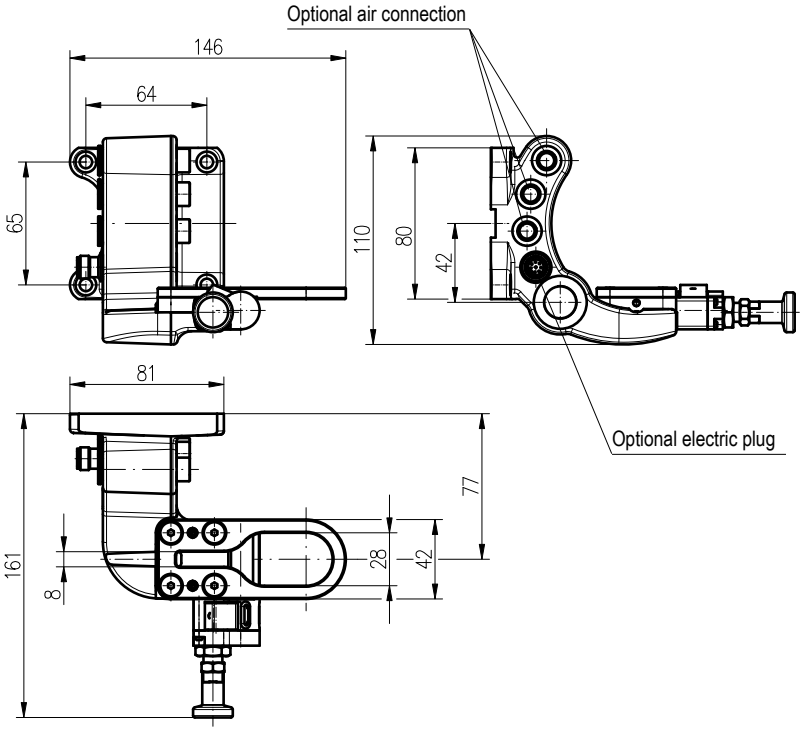
Part no.
CBF-AT-80-A3-G14-V-EL8-S-R

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Coupling with locking + air + electric, left

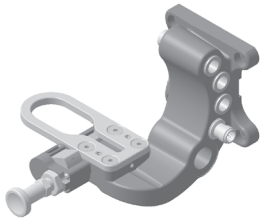


0.836 kg
Material: Aluminium / Steel

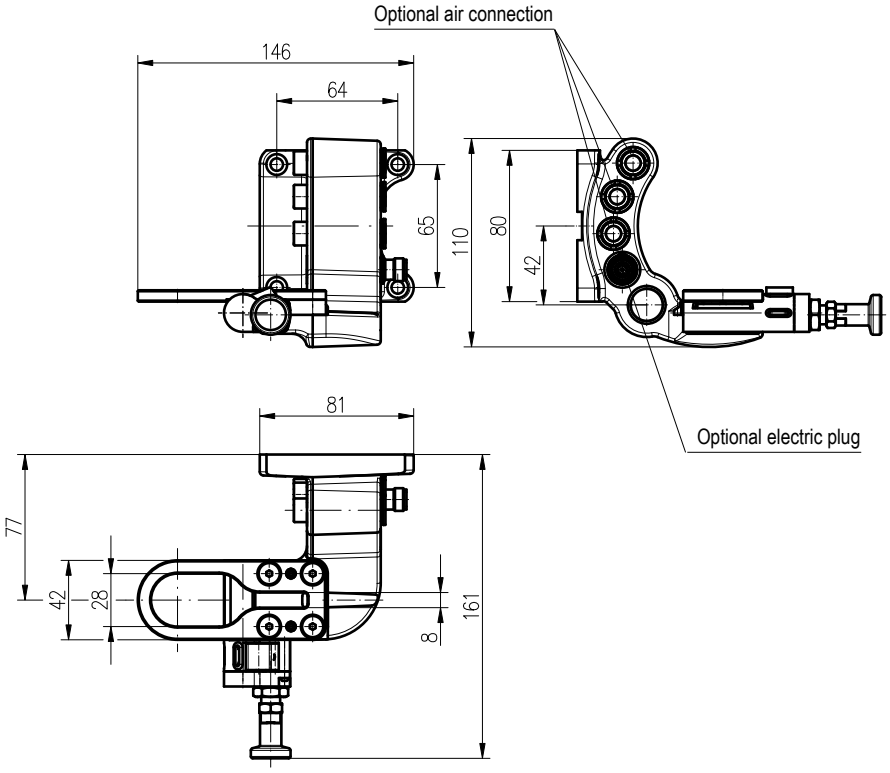


Part no.
CBF-AT-80-A3-V-EL8-L

Coupling with locking + air + electric, right



0.836 kg
Material: Aluminium / Steel

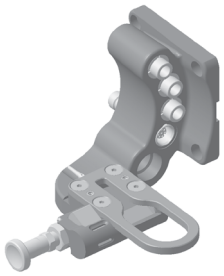


Part no.
CBF-AT-80-A3-V-EL8-R

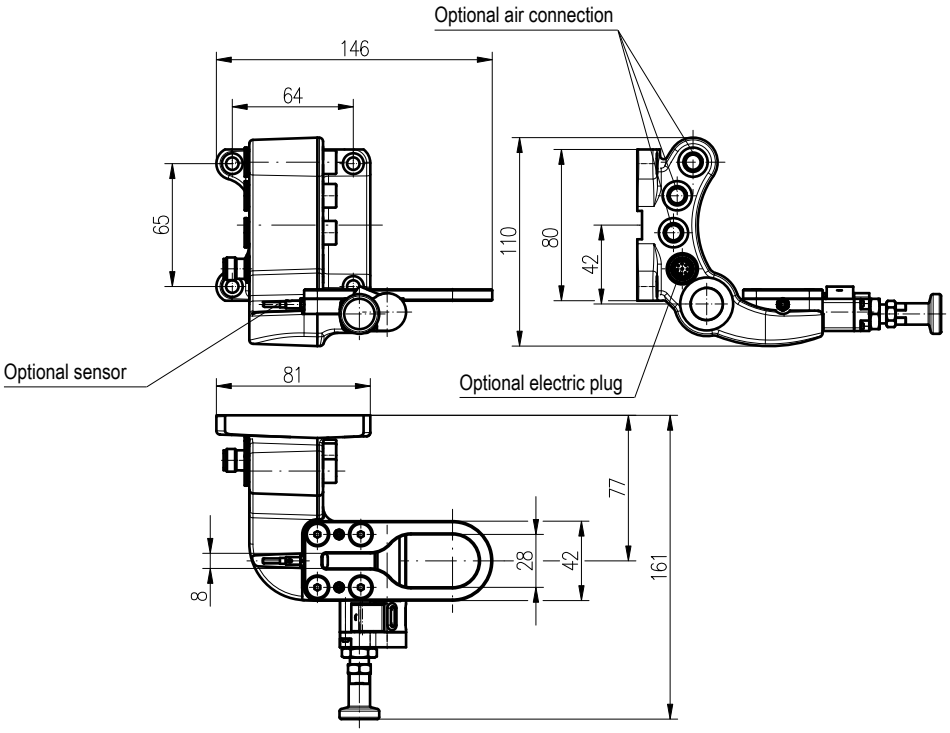
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Quick release disconnect and connection

Coupling with locking + air + electric + sensor, left

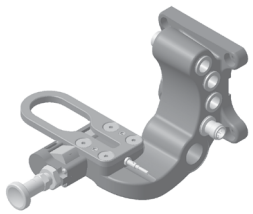


0.937 kg
Material: Aluminium / Steel

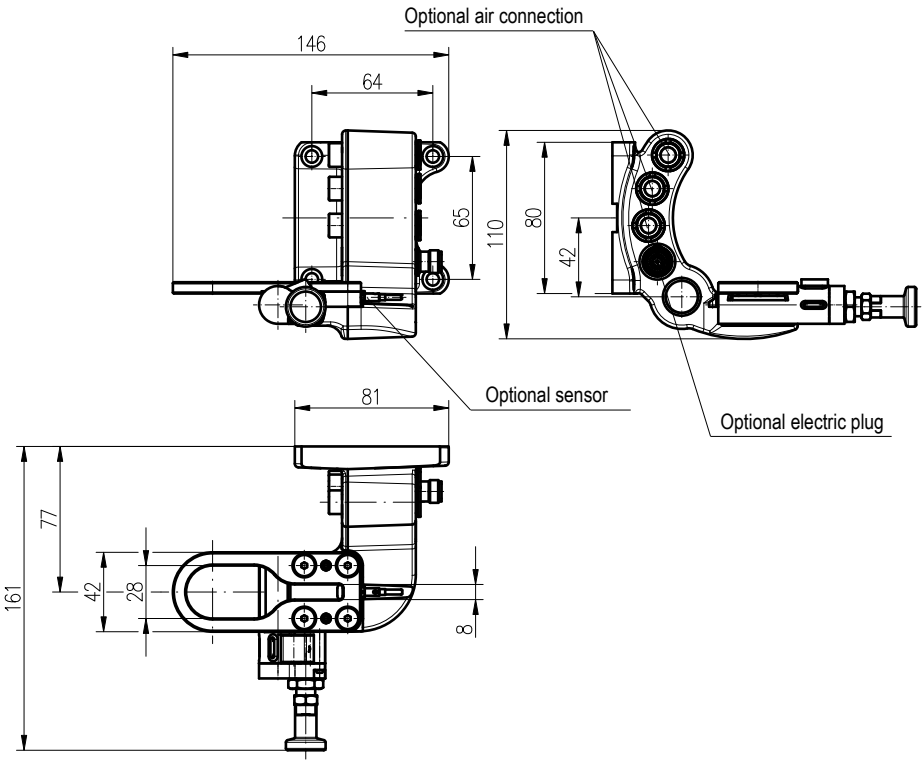


Part no.
CBF-AT-80-A3-V-EL8-S-L

Coupling with locking + air + electric +sensor, right



0.937 kg
Material: Aluminium / Steel

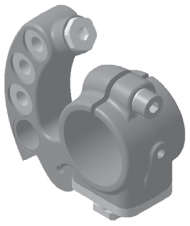


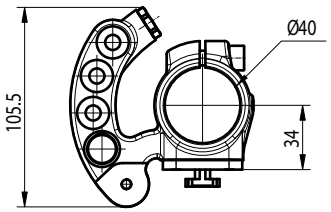
Part no.
CBF-AT-80-A3-V-EL8-S-R

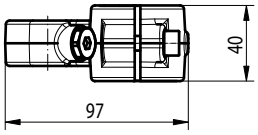
Subject to modification
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Bayonet for locking + air + electric, left



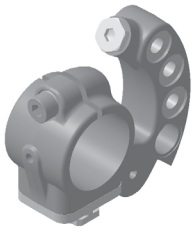


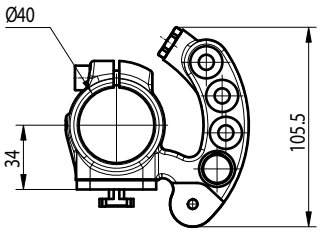


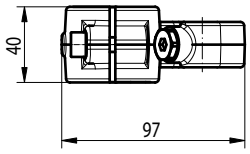
0.34 kg
Material: Aluminium / Steel

Part no.
CBF-AT-40-A3-L

Bayonet for locking + air + electric, right





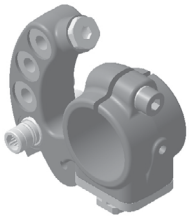


0.34 kg
Material: Aluminium / Steel

Part no.
CBF-AT-40-A3-R

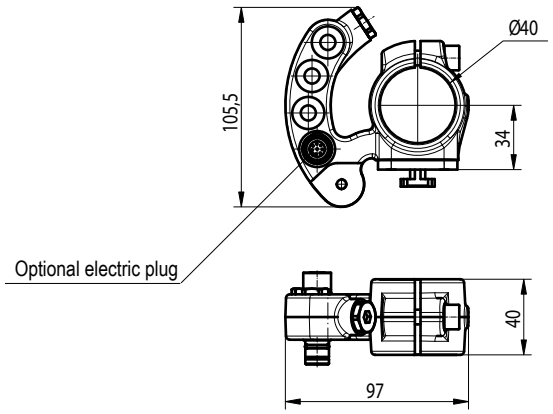
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Bayonet for locking and air, with electric, left

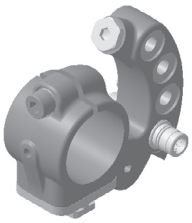


0.422 kg
Material: Aluminium / Steel

Part no.
CBF-AT-40-A3-EL8-L

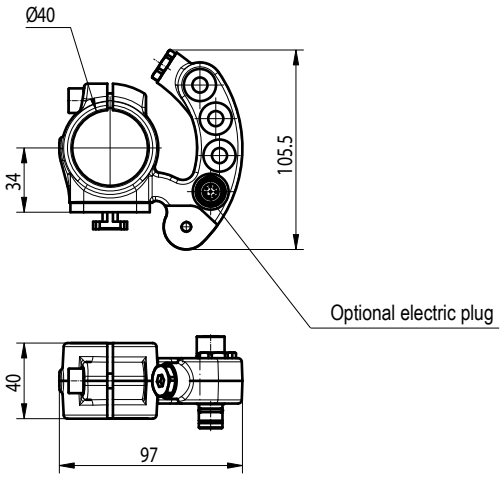


Bayonet for locking and air, with electric, right



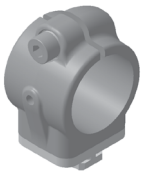
0.422 kg
Material: Aluminium / Steel

Part no.
CBF-AT-40-A3-EL8-R

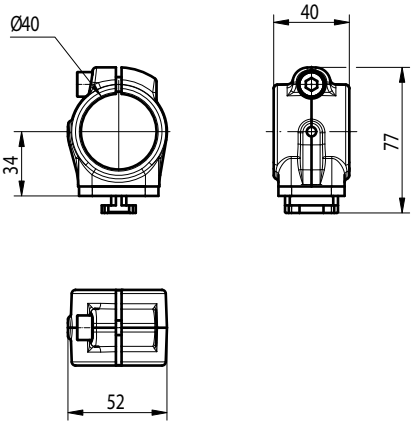


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Bayonet



0.21 kg
Material: Aluminium / Steel

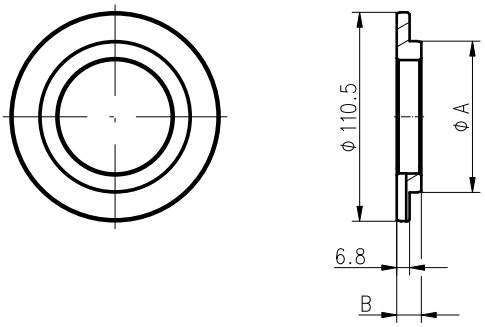


Part no.
CBF-AT-40-LR

Eccentric ring



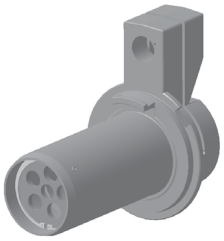
Material: Aluminium

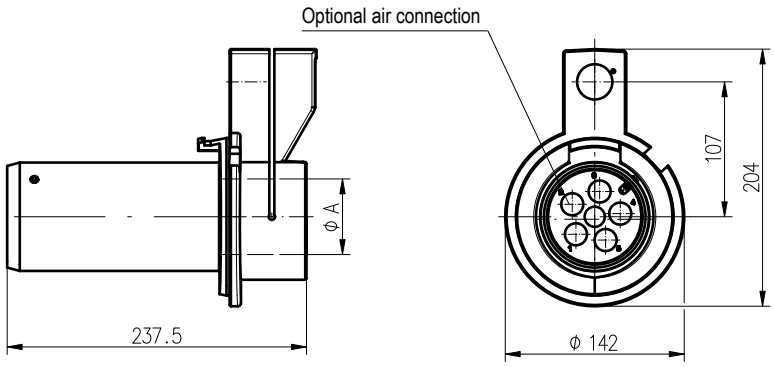


Part no.	Ø A	B	(kg)
GSWE-R-250-80-001	80	13	0.158
GSWE-R-250-100-001	100	13	0.129

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Bayonet for ABB coupling



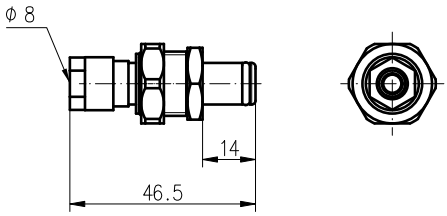


Material: Aluminium

Ordering information		e.g.: VDC-60-A4
VDC	-A	-
	Size	Optional air connection
	↓	↓
	40	A2 (2 Port)
	60	A4 (4 Port)
	76	A5 (5 Port)

Steel connector for ABB coupling



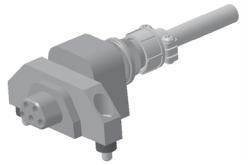


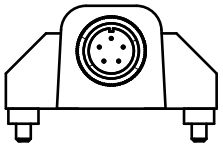
0.06 kg
Material: Steel

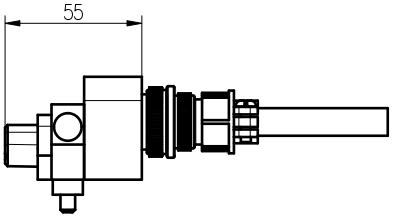
Part no.
PLC-400-M8-ST

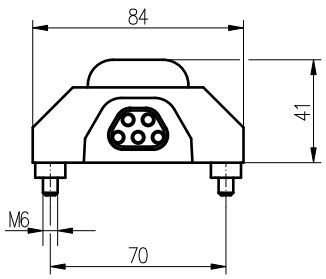
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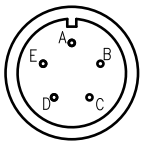
Electrical outlet, 5-PIN

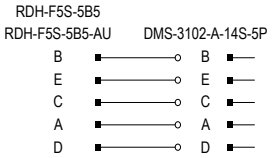


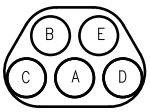








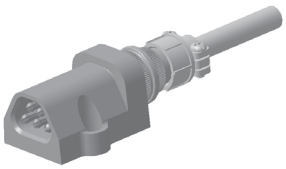




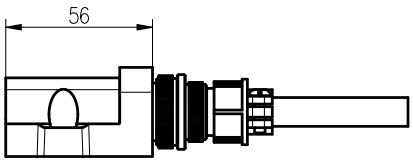
Part no.	Receptacle	(kg)
RDH-F5S-5B5	5 Sockets	0.192
RDH-F5S-5B5-AU*	5 Sockets	0.192

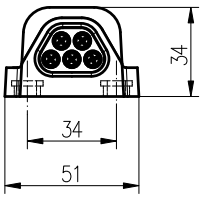
*AU = gold plated insert bushes

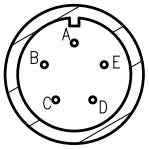
Electric plug, 5-PIN

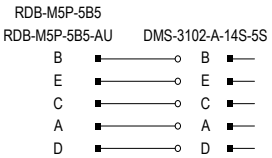


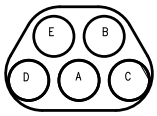












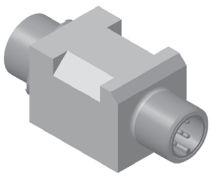
Part no.	Receptacle	(kg)
RDB-M5P-5B5	5 Pins	0.19
RDB-M5P-5B5-AU*	5 Pins	0.19

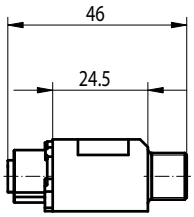
*AU = gold plated insert bushes

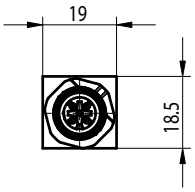
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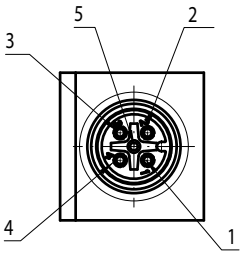
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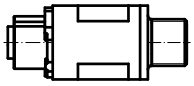
Electric plug, 5-PIN

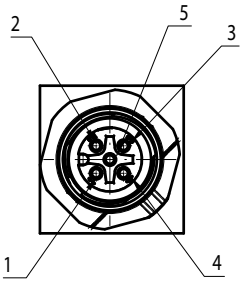






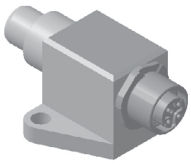


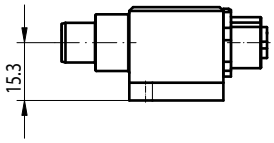


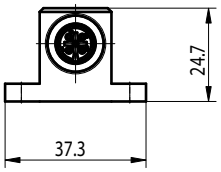


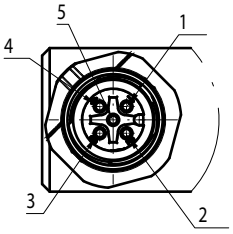
Part no.	Receptacle	(kg)
RDH-TDC-40-GM-EL5	5 Sockets	0.10

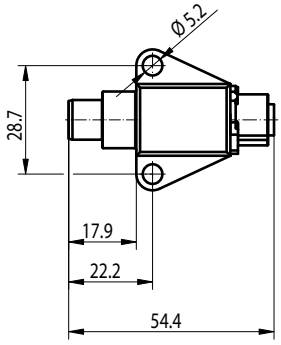
Electric plug, 5-PIN

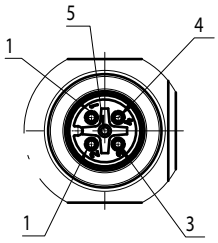








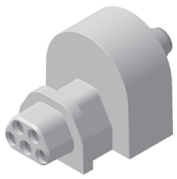


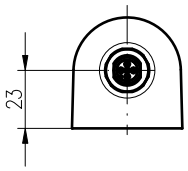


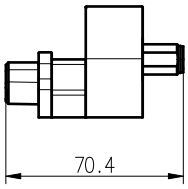
Part no.	Receptacle	(kg)
RDB-TDC-40-GM-EL5	5 Pins	0.10

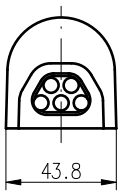
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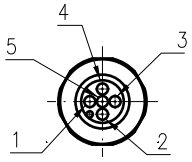
Electrical outlet, 5-PIN





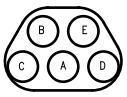






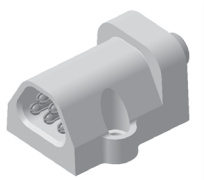
RDH-F5S-5-M12S

A	1	brown
B	3	blue
C	4	black
D	2	white
E	5	grey

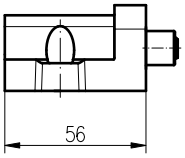


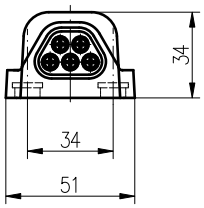
Part no.	Receptacle	(kg)
RDH-F5S-5-M12S	5 Sockets	0.086

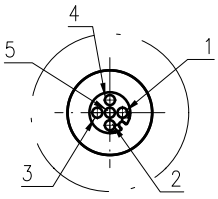
Electric plug, 5-PIN





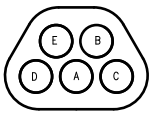






RDB-M5P-5-M12B

A	1	brown
B	3	blue
C	4	black
D	2	white
E	5	grey



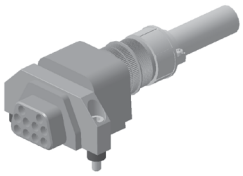
Part no.	Receptacle	(kg)
RDB-M5P-5-M12B	5 Pins	0.088

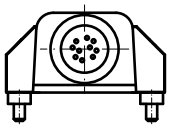
Subject to modification
Edition 01 / 2023 - 2024 Standard

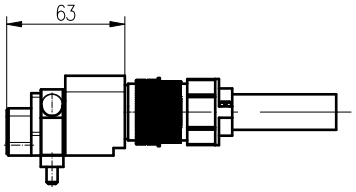
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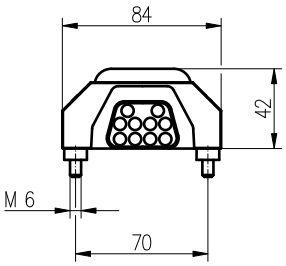
Quick release disconnect and connection

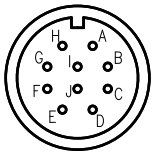
Electrical outlet, 10-PIN



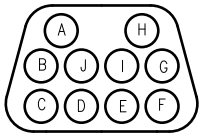






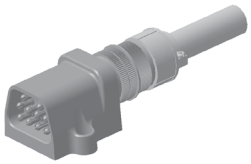


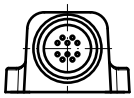


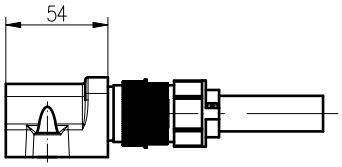


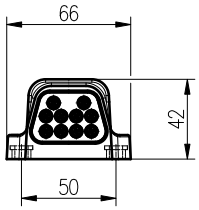
Part no.	Receptacle	(kg)
RDH-F10S-A10	10 Sockets	0.192

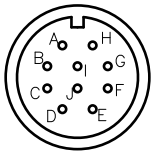
Electric plug, 10-PIN

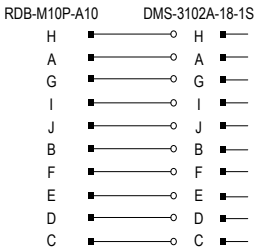


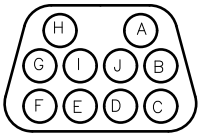








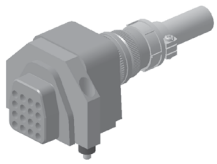


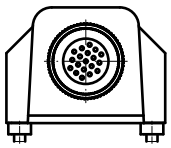


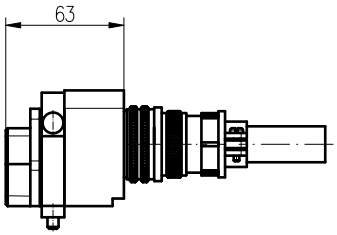
Part no.	Receptacle	(kg)
RDB-M10P-A10	10 Pins	0.19

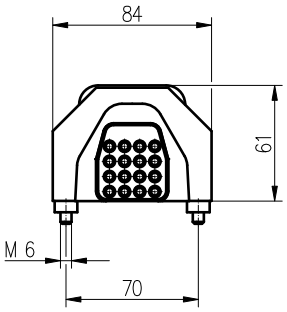
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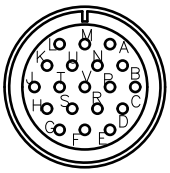
Electrical outlet, 16-PIN

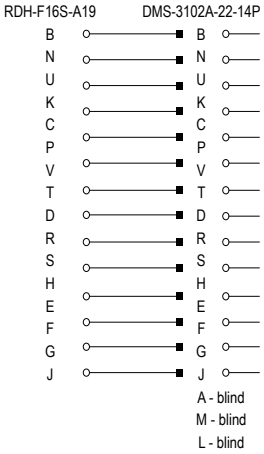


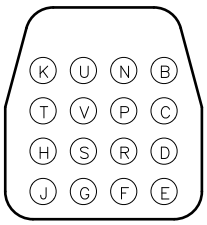






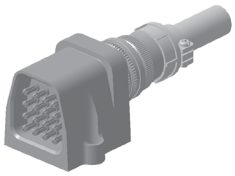


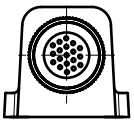


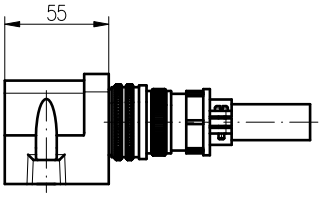


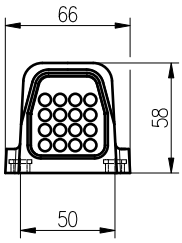
Part no.	Receptacle	(kg)
RDH-F16S-A19	16 Sockets	0.22

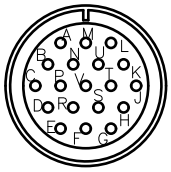
Electric plug, 16-PIN

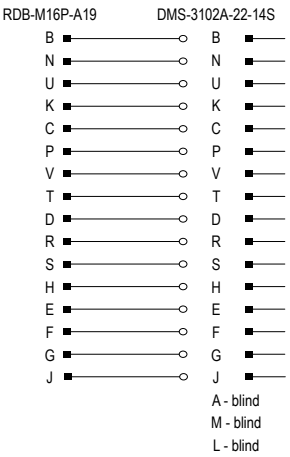


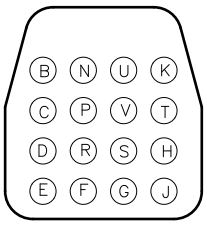












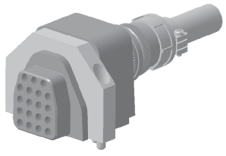
Part no.	Receptacle	(kg)
RDB-M16P-A19	16 Pins	0.22

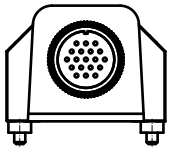
Subject to modification
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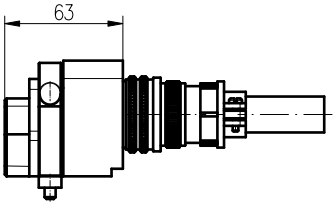
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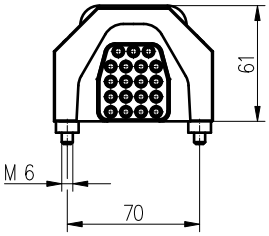
Quick release disconnect and connection

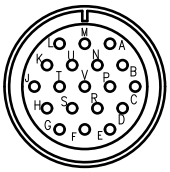
Electrical outlet, 19-PIN



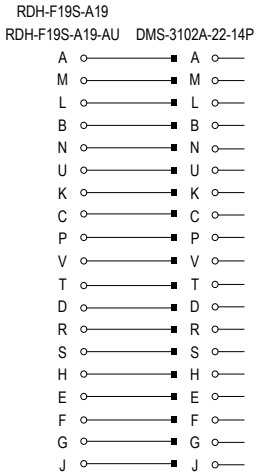


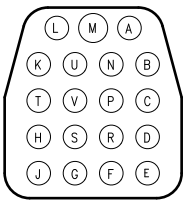






RDH-F19S-A19
RDH-F19S-A19-AU DMS-3102A-22-14P

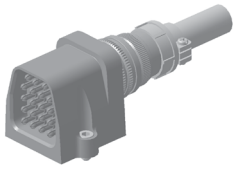


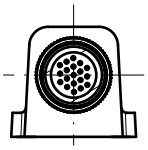


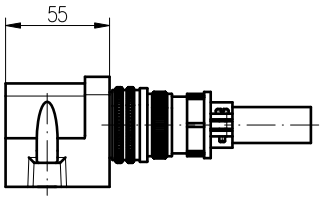
Part no.	Receptacle	(kg)
RDH-F19S-A19	19 Sockets	0.22
RDH-F19S-A19-AU*	19 Sockets	0.22

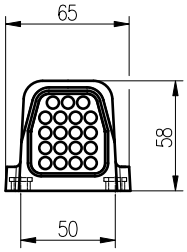
*AU = gold plated insert bushes

Electric plug, 19-PIN

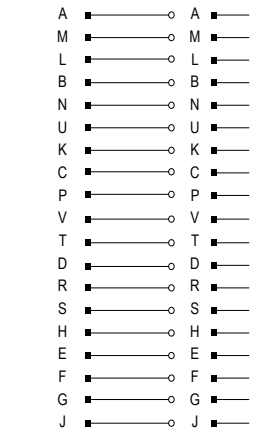


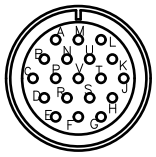


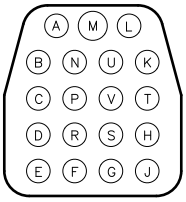




RDB-M19P-A19
RDB-M19P-A19-AU DMS-3102A-22-14S





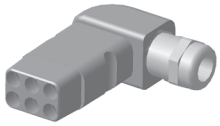


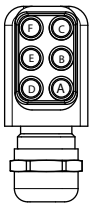
Part no.	Receptacle	(kg)
RDB-M19P-A19	19 Pins	0.22
RDB-M19P-A19-AU*	19 Pins	0.22

*AU = gold plated insert bushes

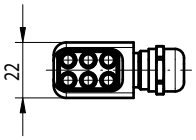
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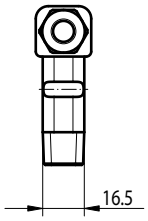
Electrical outlet, 6-PIN

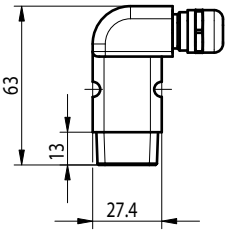




RDH-F6P-A6-W	Color of wire
A	PE withe
B	1 yellow
C	2 pink
D	3 grey
E	4 blue
F	5 brown

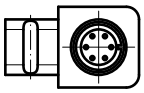


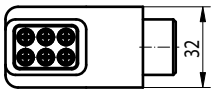


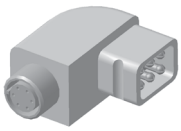


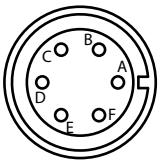
Part no.	Receptacle	(kg)
RDH-F6P-A6-W	6 Sockets	0.033

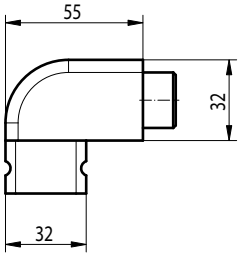
Electric plug, 6-PIN



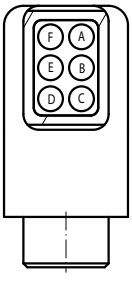








RDB-M6P-A6-W	DMS-3102A-14S-6S
B	B
E	E
C	C
A	A
D	D
F	F



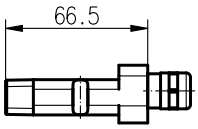
Part no.	Receptacle	(kg)
RDB-M6P-A6-W	6 Pins	0.102

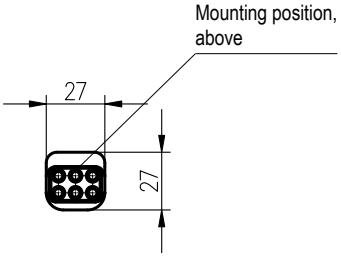
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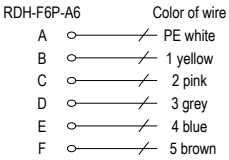
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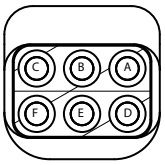
Electrical outlet, 6-PIN





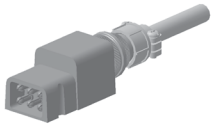




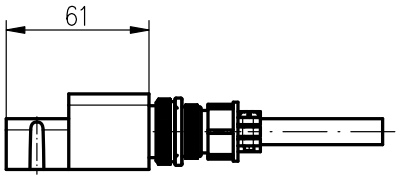


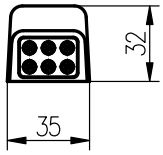
Part no.	Receptacle	(kg)
RDH-F6P-A6	6 Sockets	0.054

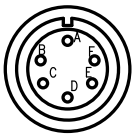
Electric plug, 6-PIN

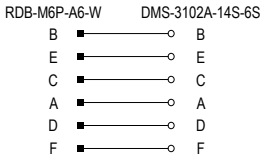


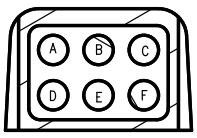








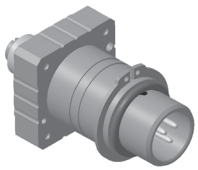


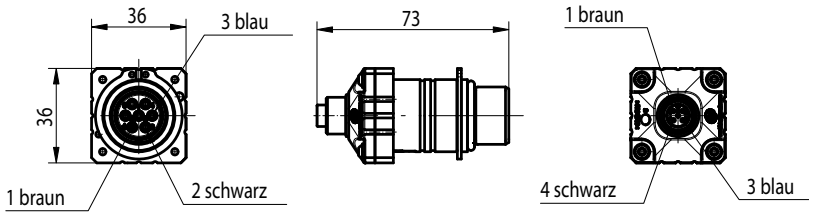


Part no.	Receptacle	(kg)
RDB-M6P-A6	6 Pins	0.102

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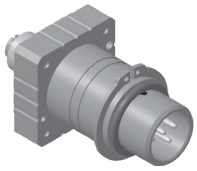
Electric plug, 3-PIN

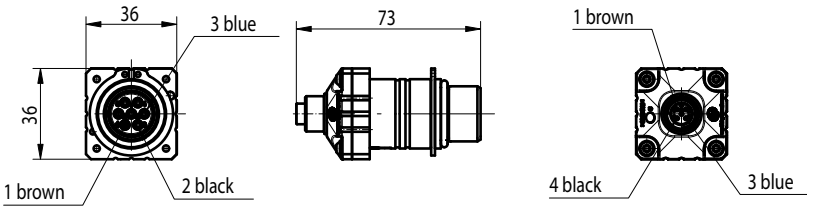




Part no.	Receptacle	(kg)
RDB-MC-3P-D-M12B	3 Pins	0.07

Electric plug, 4-PIN

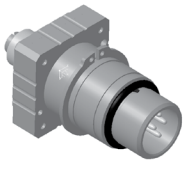


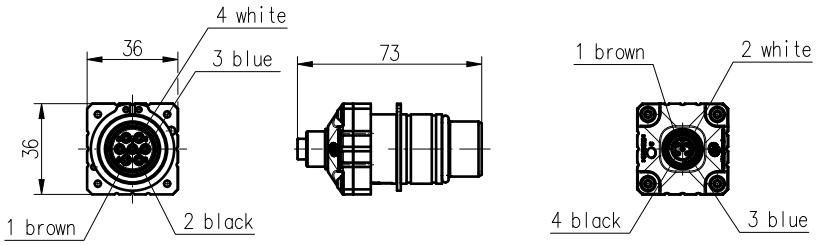


Part no.	Receptacle	(kg)
RDB-MC-4P-D-M12B	4 Pins	0.07

Pinbelegung: brown connect pins 1-6

Electric plug, 4-PIN

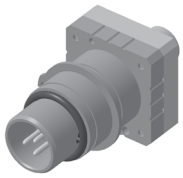


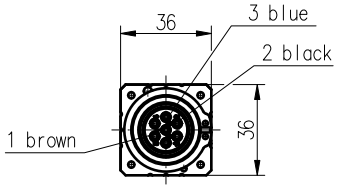


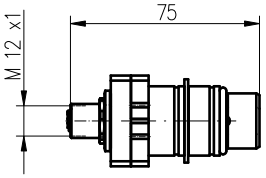
Part no.	Receptacle	(kg)
RDB-MC-4P-D-M12B-FSTA	4 Pins	0.07

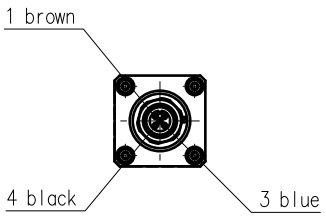
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Electric plug, 3-PIN



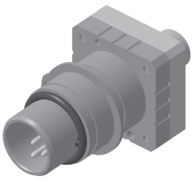


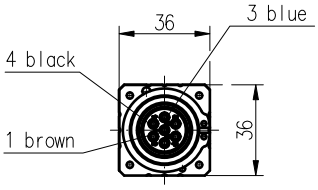


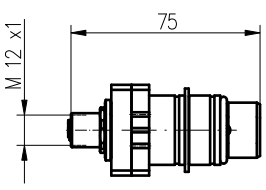


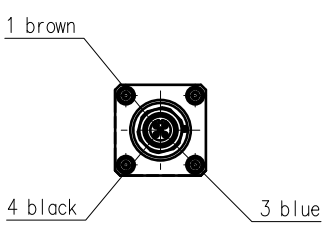
Part no.	Receptacle	(kg)
RDB-MC-EL3-03	3 Pins	0.07

Electric plug, 3-PIN



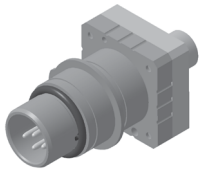


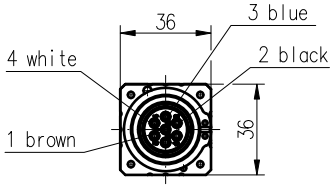


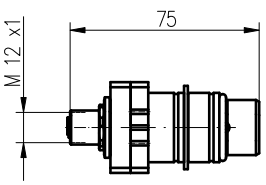


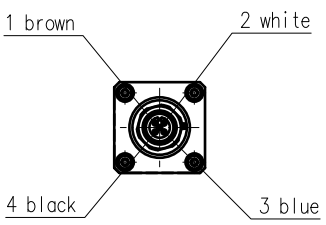
Part no.	Receptacle	(kg)
RDB-MC-EL3-03-FSTA	3 Pins	0.07

Electric plug, 4-PIN





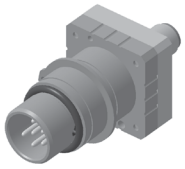


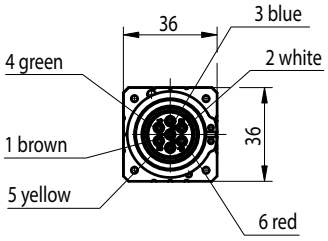


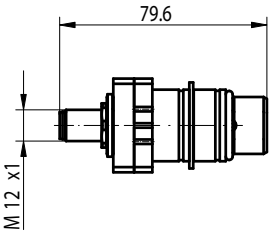
Part no.	Receptacle	(kg)
RDB-MC-EL4-01-FSTA	4 Pins	0.07

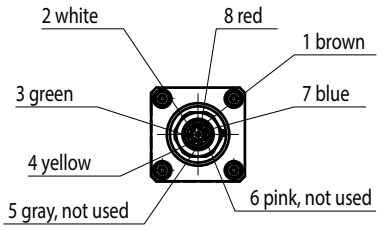
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Electric plug, 6-PIN



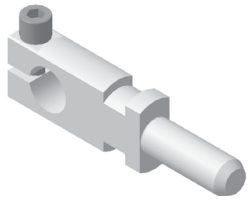




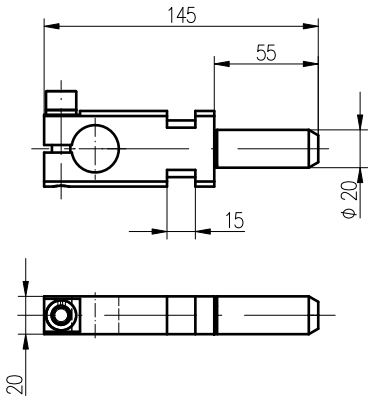


Part no.	Receptacle
RDB-MC-EL6-02	6 Pins

GT-Transfer press adapter

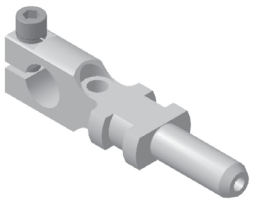


0.58 kg
Material: Steel

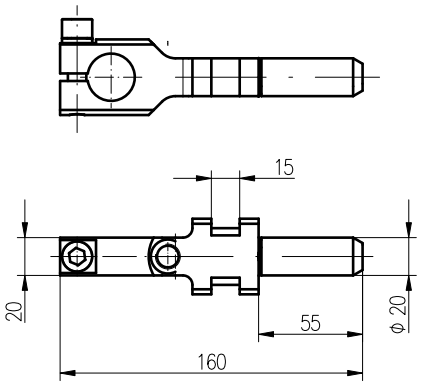


Part no.
GRS-T-25-145

GT-Transfer press adapter



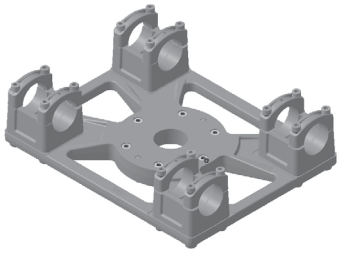
0.56 kg
Material: Steel



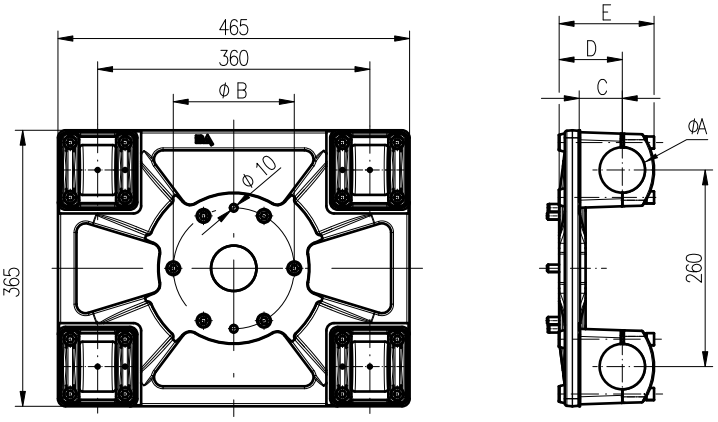
Part no.
GRS-T-25-160

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Robot mount, round

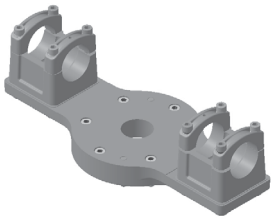


Material: Aluminium

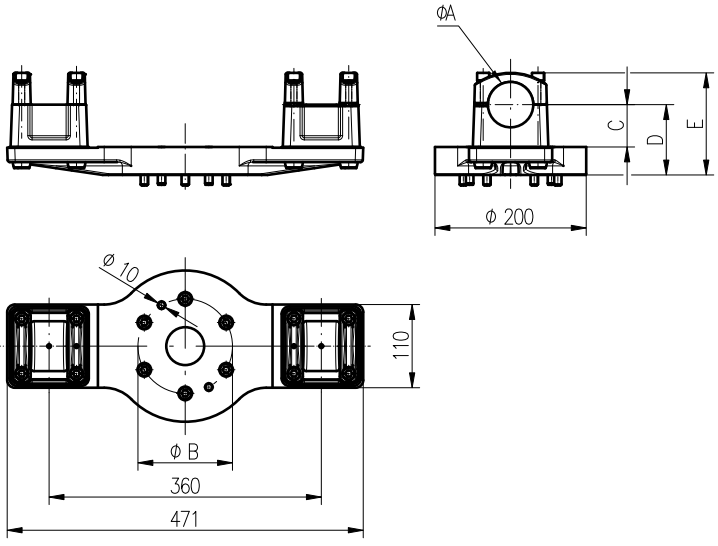


Part no.	A	Ø B	C	D	E	(kg)	Robot model
PLR-D-40-125-A	40	125	62	69.5	104.5	11.71	ABB IRB-6400
PLR-D-40-160-A	40	125	62	69.5	104.5	11.71	KUKA 760
PLR-D-60-125-A	60	160	76	83.5	125.5	12.89	ABB IRB 6400
PLR-D-60-160-A	60	160	76	83.5	125.5	12.89	KUKA 760
PLR-D-40-*-A	40	-	62	69.5	104.5	11.71	**
PLR-D-60-*-A	60	-	76	83.5	125.5	12.89	**

Robot mount, round



Material: Aluminium

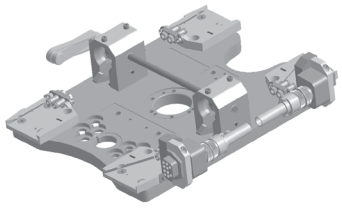


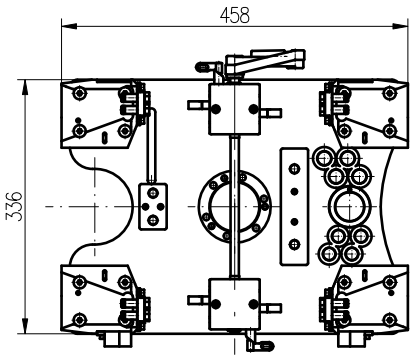
Part no.	Ø A	Ø B	C	D	E	(kg)	Robot model
PLR-E-40-125-A	40	125	42	79	114	6.67	ABB IRB-6400
PLR-E-40-160-A	40	125	42	79	114	6.67	KUKA 760
PLR-E-60-125-A	60	160	56	93	135	7.28	ABB IRB 6400
PLR-E-60-160-A	60	160	56	93	135	7.28	KUKA 760
PLR-E-40-*-A	40	-	42	79	114	6.67	**
PLR-E-60-*-A	60	-	56	93	135	7.28	**

Including fastening material (screws and straight pins) and eccentric ring
* With turned groove for eccentric ring and without geometry of drill holes for robot mount
** Please indicate on all inquiries or orders the necessary position of the drill holes for the robot connection.

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Robot mount with quick tooling changer

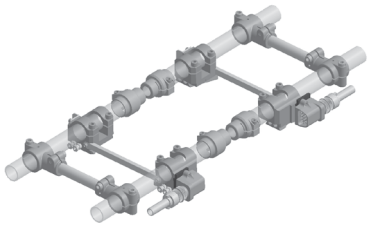


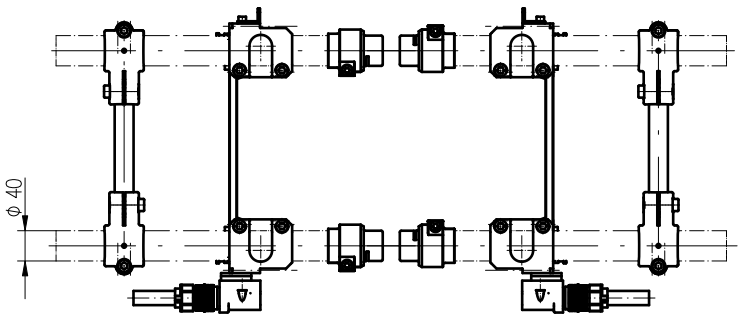


11.3 kg
Material: Aluminium

Part no.
PLR-D-TR-40-EL5-2

Double tooling for robot mount





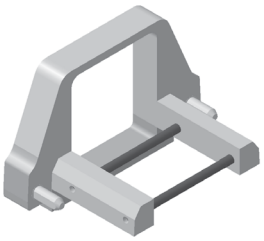
Material: Aluminium

Part no.
PLR-DT-TR-40-EL5-2

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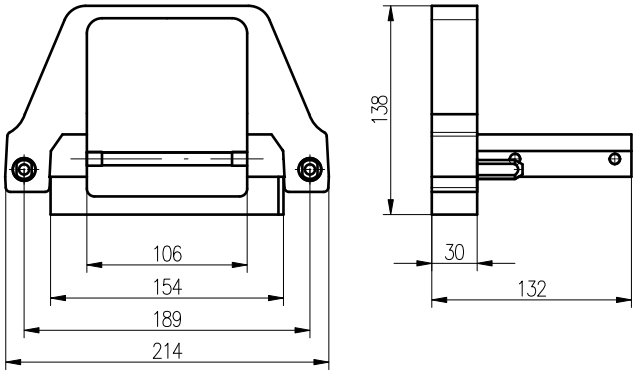
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Docking element

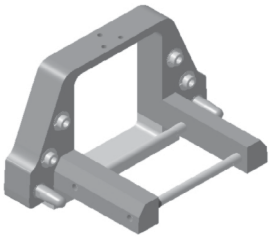


1.16 kg
Material: Aluminium

Part no.
AT-40-142-CAF

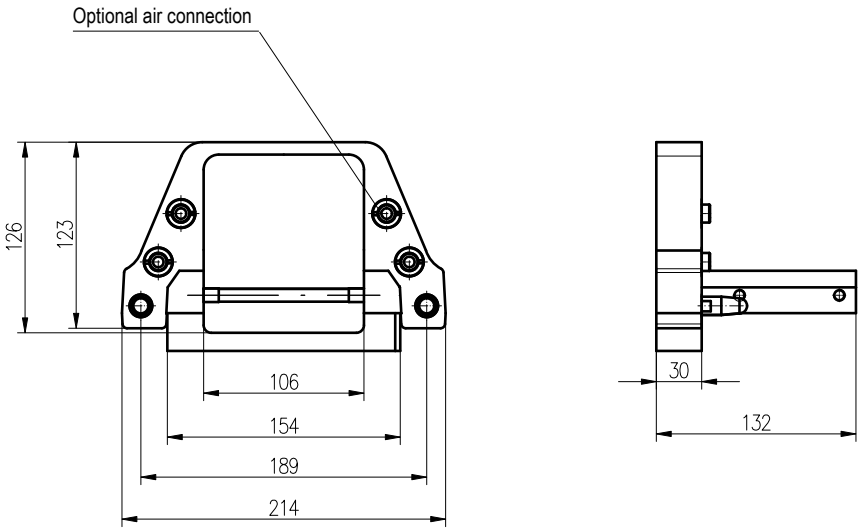


Docking element



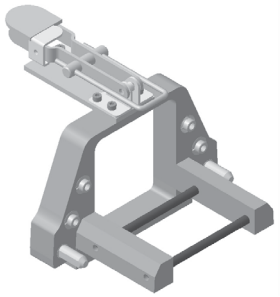
1.16 kg
Material: Aluminium

Part no.
AT-40-142-A4-CAF

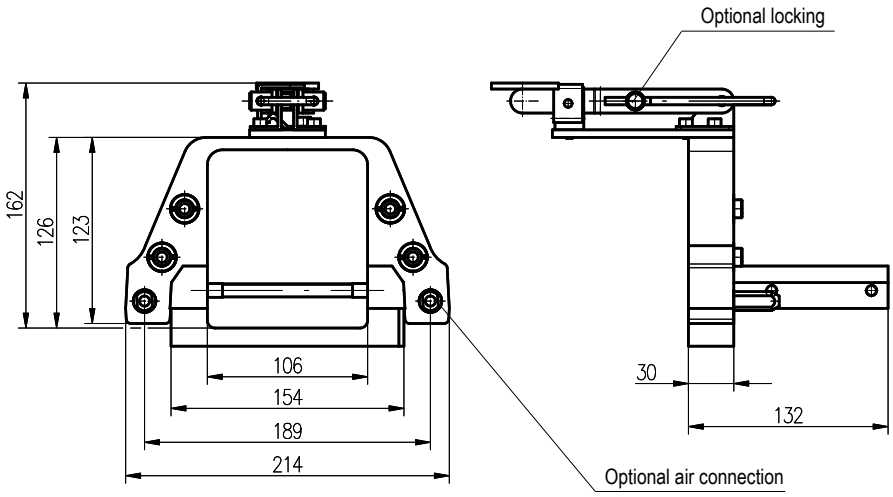


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Docking element

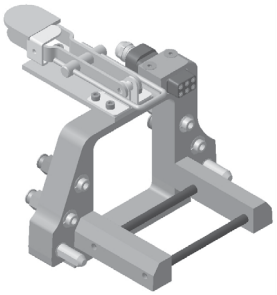


1.54 kg
Material: Aluminium

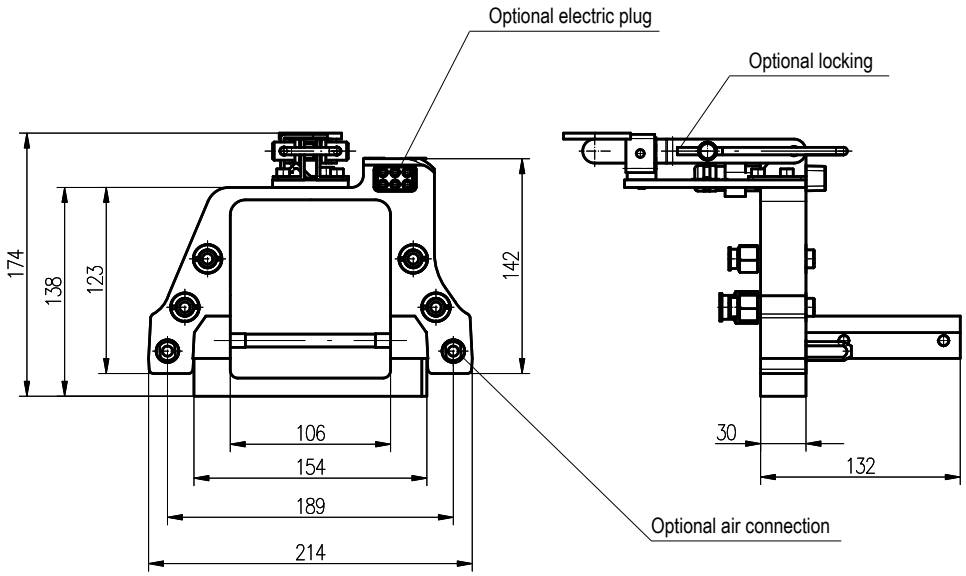


Part no.
AT-40-142-A4-V-CAF

Docking element



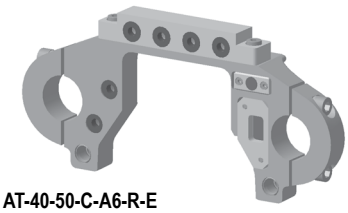
1.65 kg
Material: Aluminium



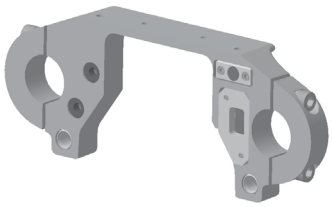
Part no.
AT-40-142-A4-EL6-V-CAF

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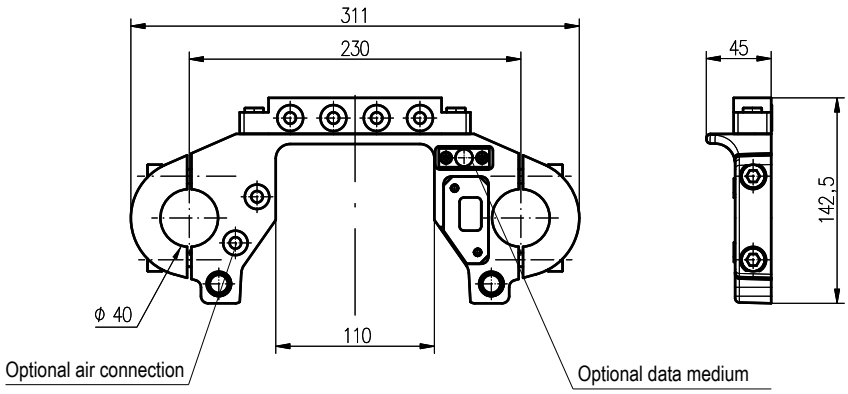
Air bracket for docking element



AT-40-50-C-A6-R-E
Material: Aluminium

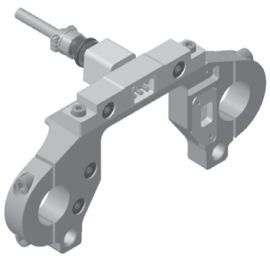


AT-40-50-C-A2-R-E
Material: Aluminium

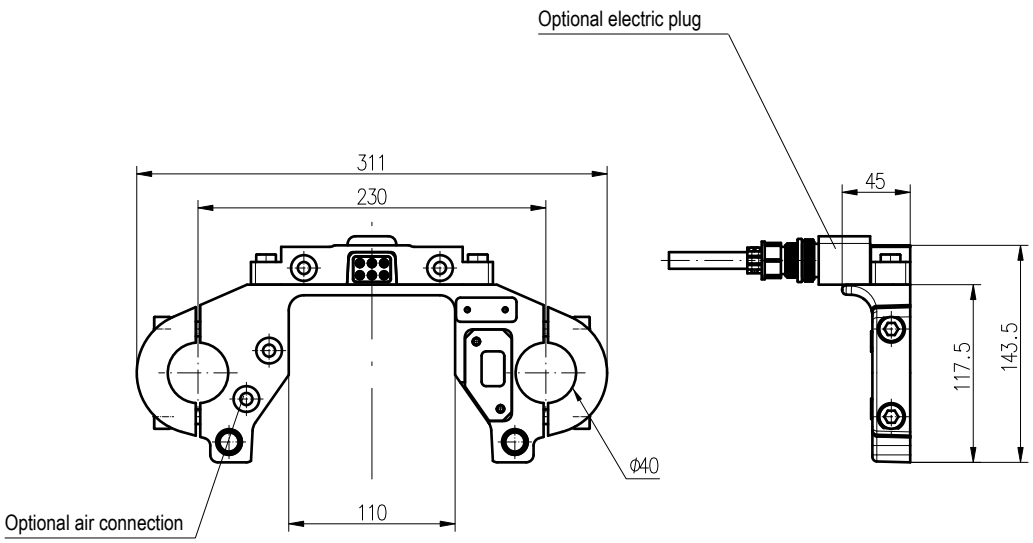


Ordering information			e.g.: AT-40-50-C-A6-R-E
AT-40-50-C	-	-R	-
	Optional air connection		Optional data medium
	↓		↓
	A2 (2 port)		E (Eprom)
	A6 (6 port)		

Air bracket



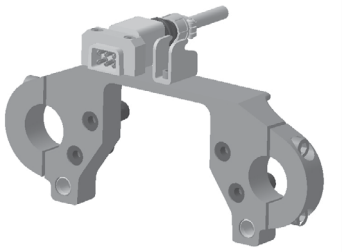
1.473 kg
Material: Aluminium



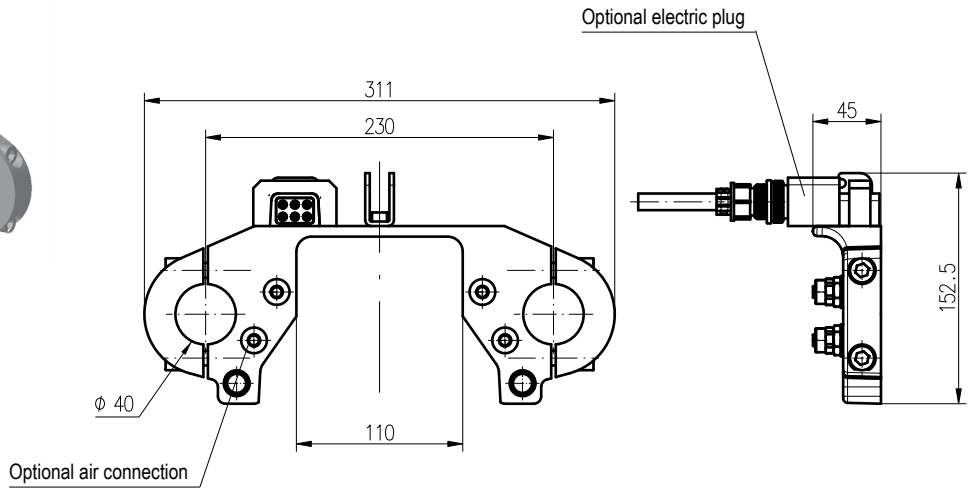
Part no.
AT-40-50-C-A4-EL6

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Air bracket for docking element



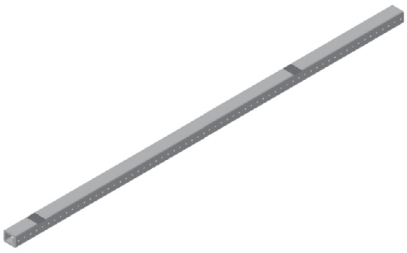
Material: Aluminium



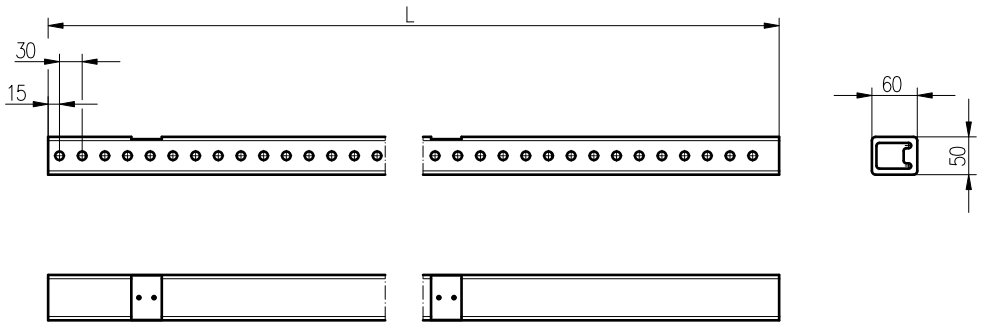
Ordering information				e.g.: AT-40-A4-V-EL6-CAF
AT-40	-	-V	-	-CAF
	Optional air connection		Optional electric plug	
	↓		↓	
	A4 (4 port)		EL5 (Plug 5 pins)	
			EL6 (Plug 6 pins)	

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Transfer gripper bar



Material: Aluminium

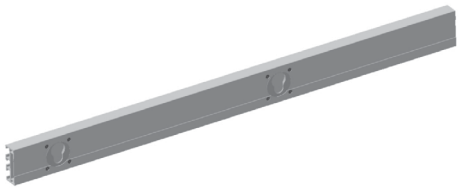


Part no.	Profile shape	Total length	kg/m
TGS-xxx-xxx-xxx	SKD-6593	L	4.3

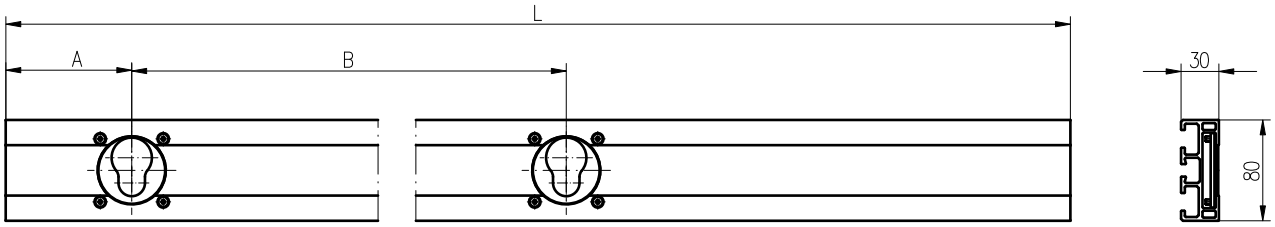
A complete gripper rail is made to customer specification.
The gripper rails are manufactured according to the customer with Ensat sockets or shaped thread.

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Transfer gripper bar



Material: Aluminium

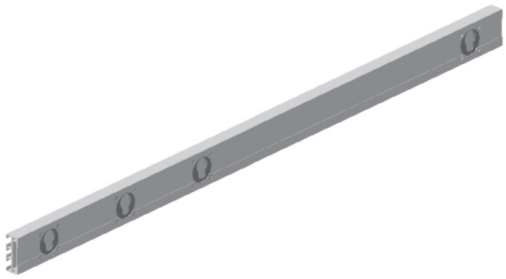


Part no.	Profile shape	Total length	Distance to the first lock plate	Distance between the lock plates	kg/m
TGS-G3080-L-A-B	G3080	L	A	B	1.98

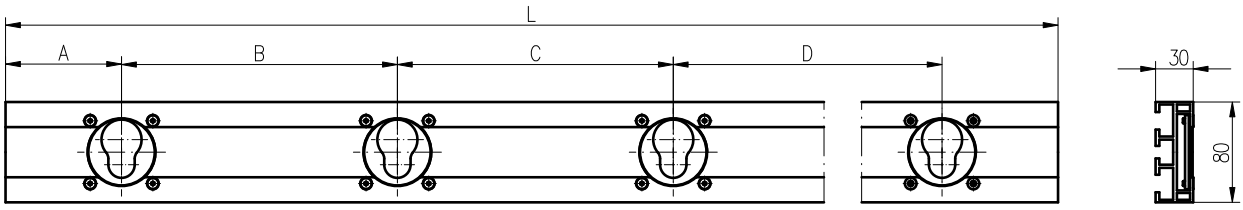
A complete gripper rail is made to customer specifications.
It is equipped with 2 lock plates.
From these positions is a special part no. assigned.

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Transfer gripper bar



Material: Aluminium

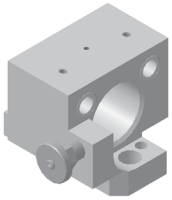


Part no.	Profile shape	Total length	Distance to the first lock plate	Distance between the lock plates	Distance between the lock plates	Distance between the lock plates	kg/m
TGS-G3080-L-A-B-C-D	G3080	L	A	B	C	D	1.98

A complete gripper rail is made to customer specifications.
You may be having 2 to max. 4 lock plates are fitted.
From these positions is a special part no. assigned.

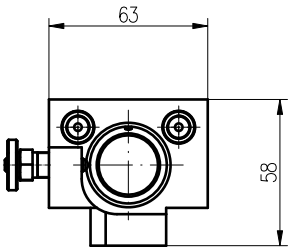
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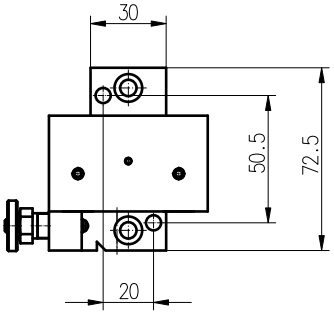
Multi-coupling for GT press



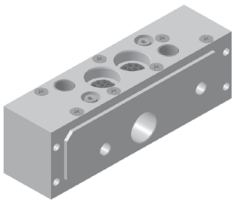
0.034 kg
Material: Aluminium

Part no.
MG2-A2-G1/8-EL7



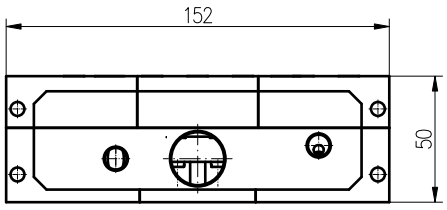


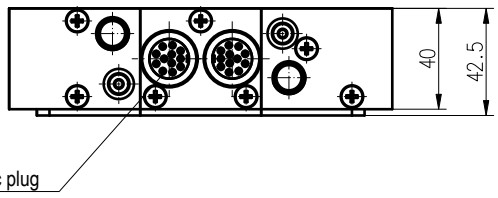
Multi-coupling



0.766 kg
Material: Aluminium

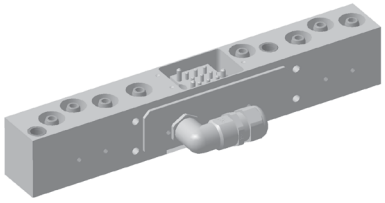
Part no.
MG2-G1/8-2EL12

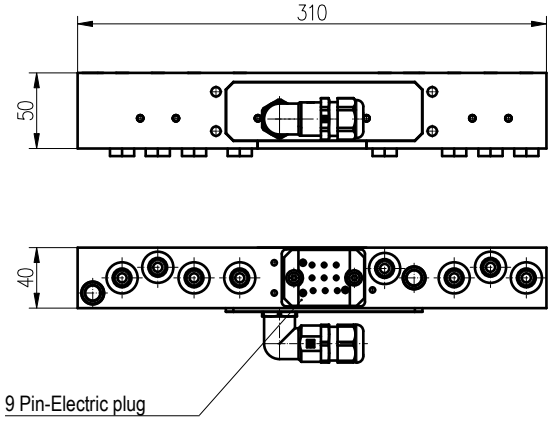




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Multi-coupling, TR 20.000 press, VW Wolfsburg

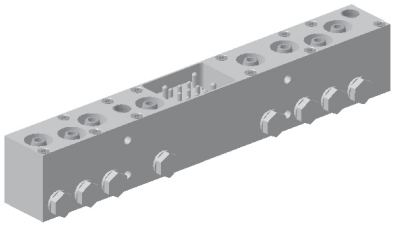


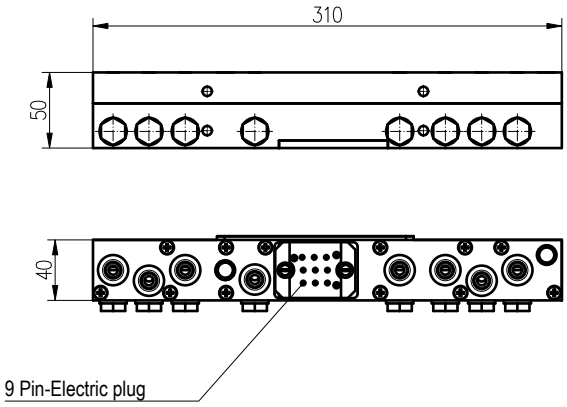


1.073 kg
Material: Aluminium

Part no.
MG8-G1/4-EL9-VW

Multi-coupling, TR 20.000 press, Audi



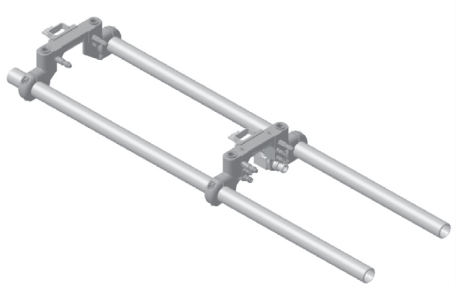


1.739 kg
Material: Aluminium

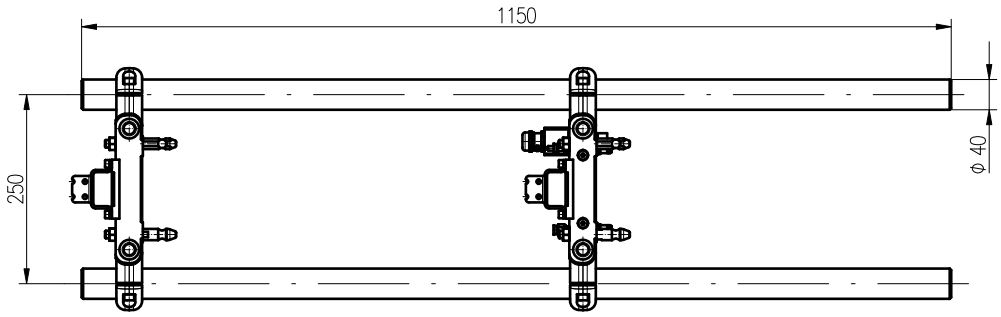
Part no.
MG8-G1/4-EL9

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Tooling bracket for automatic changing

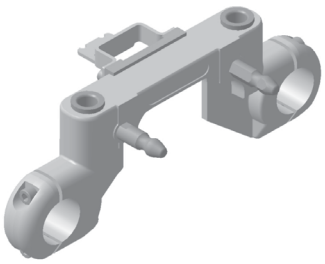


5.267 kg
Material: Aluminium

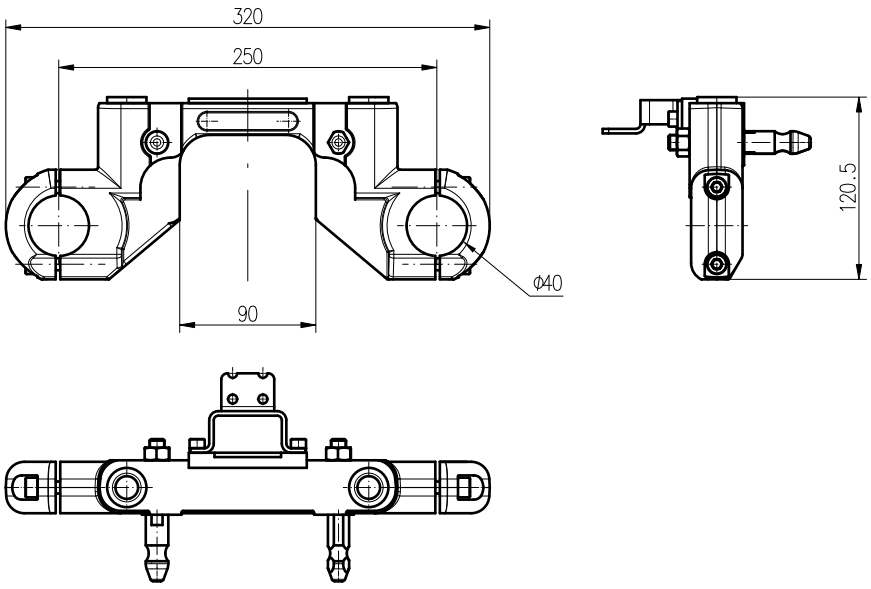


Part no.
CB80-DT-40-250-S4-EL7-1150

Tolling bracket



1.387 kg
Material: Aluminium

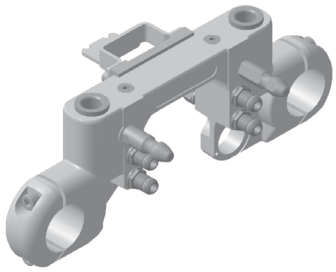


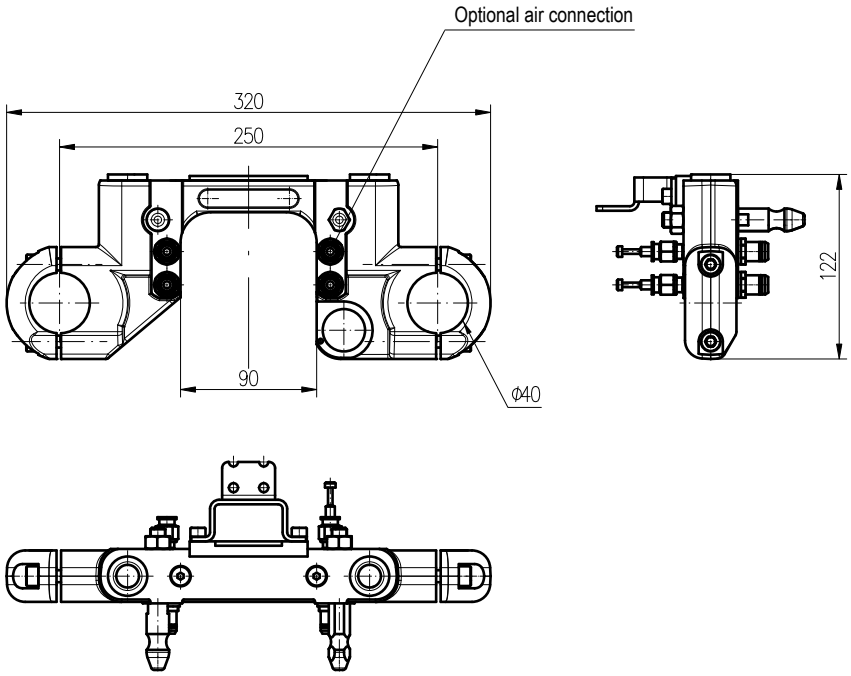
Part no.
CB80-40-01

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Tolling bracket

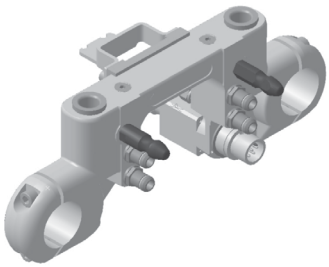


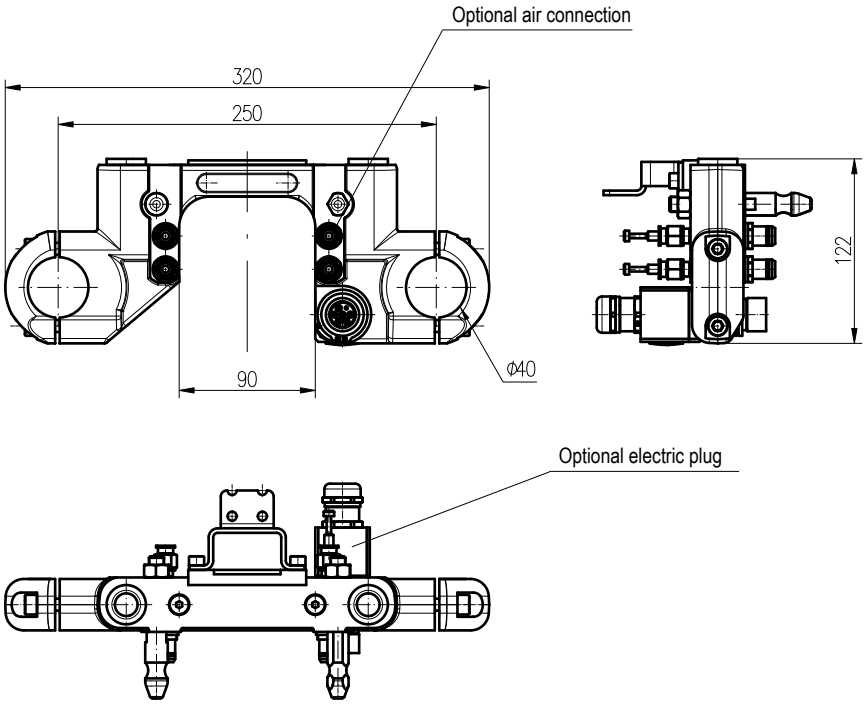


1.63 kg
Material: Aluminium

Part no.
CB80-40-01-A4

Tolling bracket



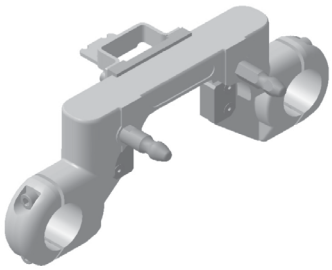


1.712 kg
Material: Aluminium

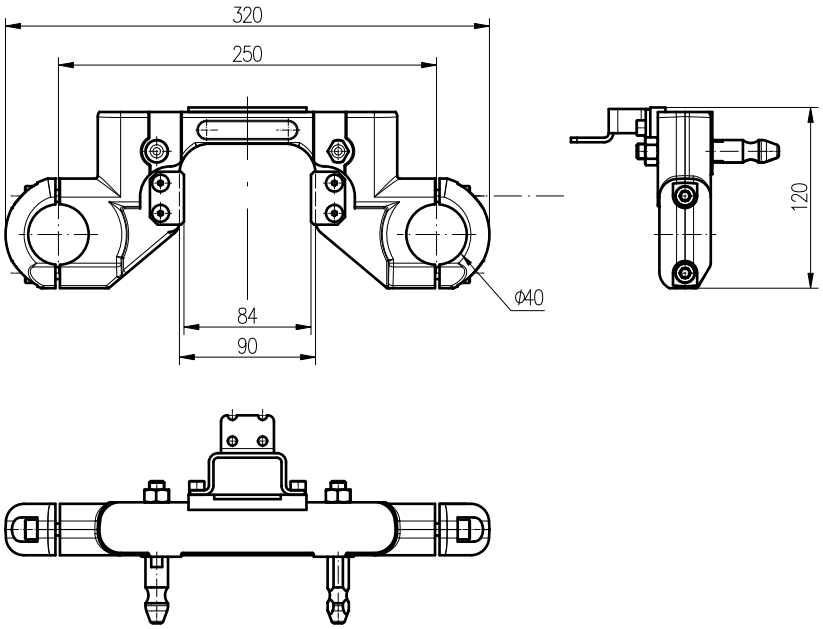
Part no.
CB80-40-01-A4-EL7

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Tolling bracket (change manually)

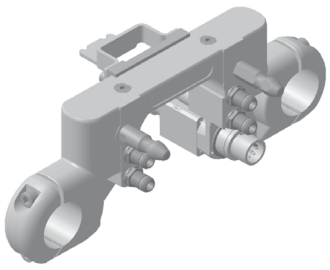


1.49 kg
Material: Aluminium

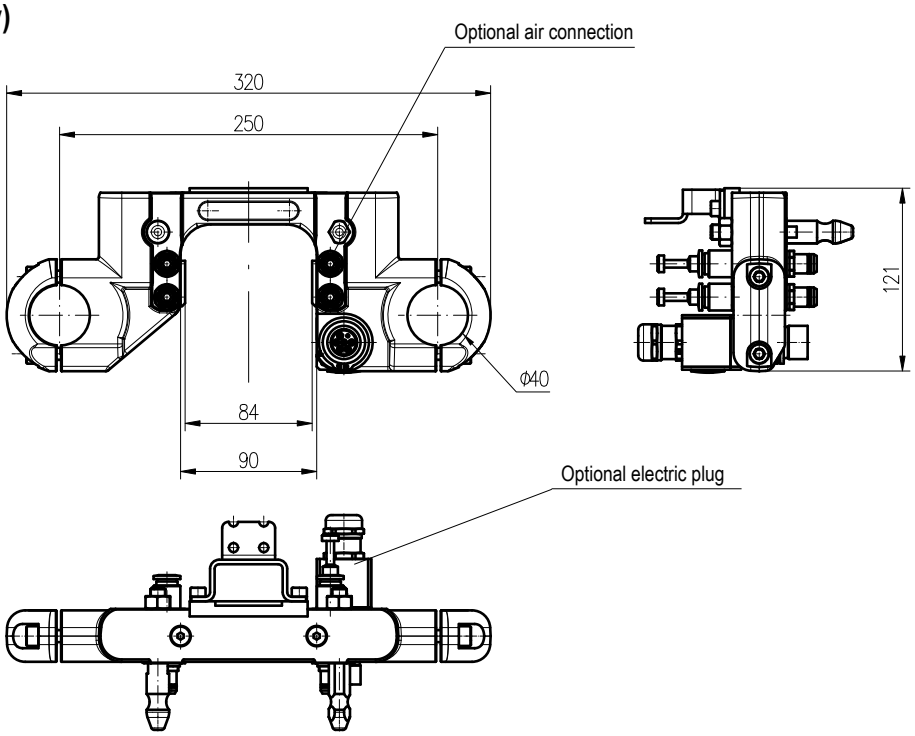


Part no.
CB80-40-01-MW

Tolling bracket (change manually)



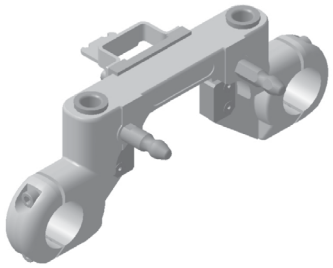
1.737 kg
Material: Aluminium

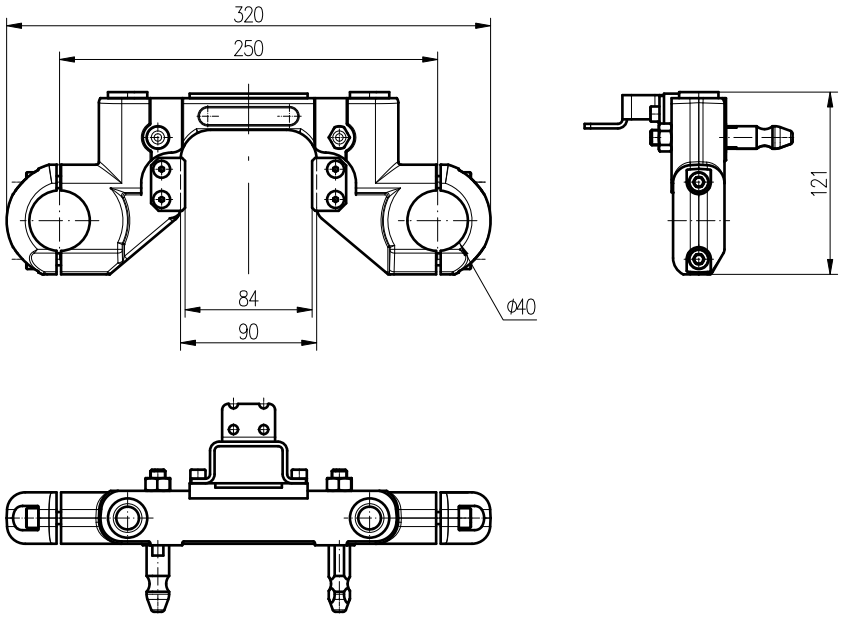


Part no.
CB80-40-01-MW-A4-EL7

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Tolling bracket (change manually)

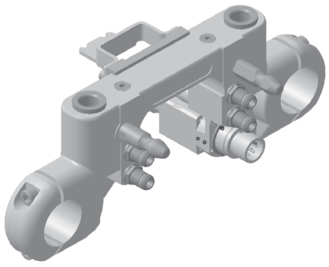


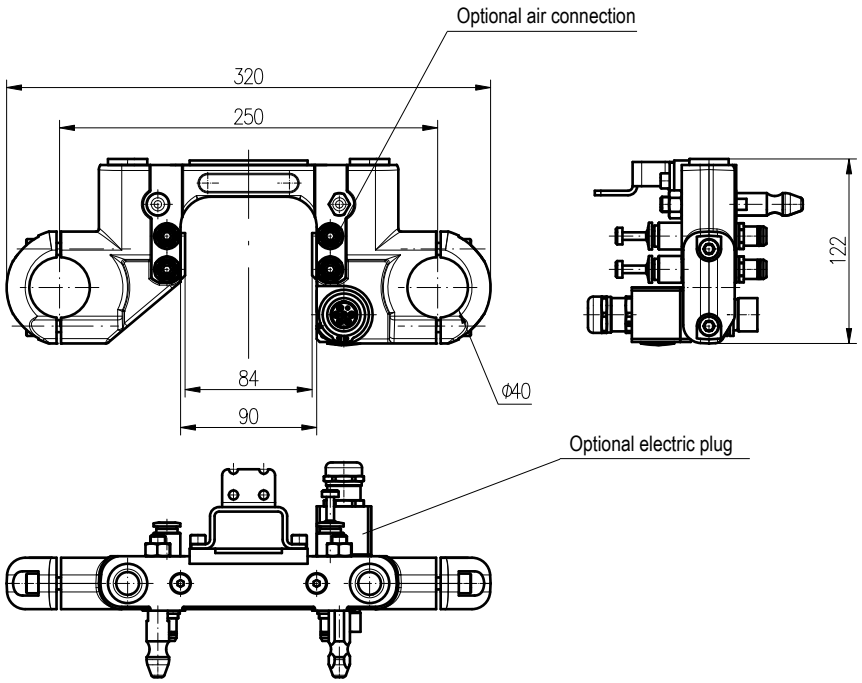


1.401 kg
Material: Aluminium

Part no.
CB80-40-01-MWAW

Tolling bracket (change manually)





1.73 kg
Material: Aluminium

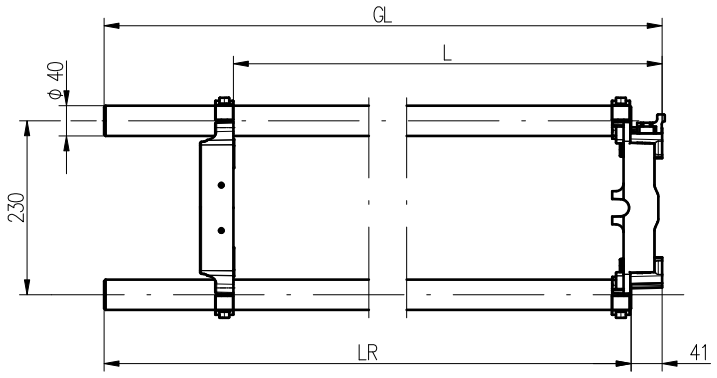
Part no.
CB80-40-01-MWAW-A4-EL7

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Double tooling for suction bar

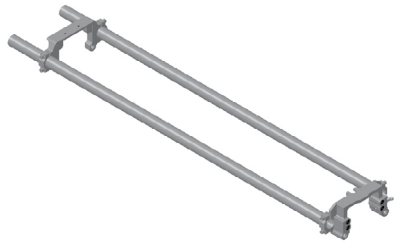


Material: Aluminium

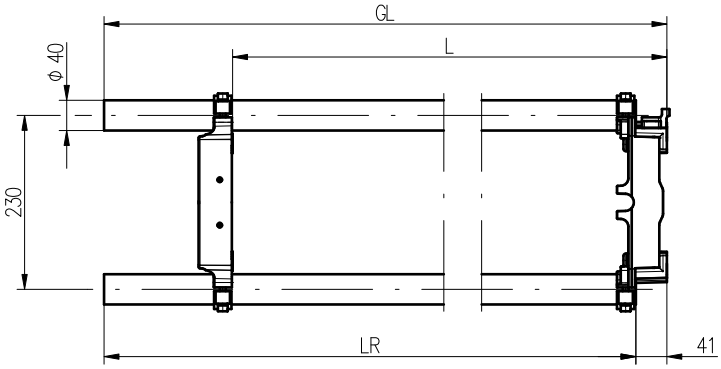


Part no.	L	LR	GL	(kg)
GRS-DT-40-230-LL1-L-1000	520	959	1000	3.95
GRS-DT-40-230-LL1-R-1000	520	959	1000	3.95
GRS-DT-40-230-LL1-L-1470	1300	1429	1470	4.84
GRS-DT-40-230-LL1-R-1470	1300	1429	1470	4.84
GRS-DT-40-230-LL1-L-1637	1300	1596	1637	5.15
GRS-DT-40-230-LL1-R-1637	1300	1596	1637	5.15

Double tooling for suction bar



Material: Aluminium / Carbon fibre

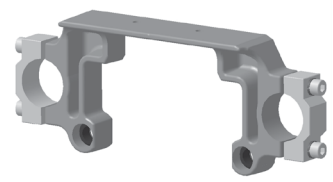


Part no.	L	LR	GL	(kg)
GRS-DT-40-230-LL3-L-640	520	599	640	3.148
GRS-DT-40-230-LL3-R-640	520	599	640	3.148
GRS-DT-40-230-LL3-L-1000	520	959	1000	3.821
GRS-DT-40-230-LL3-R-1000	520	959	1000	3.821
GRS-DT-40-230-LL3-L-1470	1300	1429	1470	4.698
GRS-DT-40-230-LL3-R-1470	1300	1429	1470	4.698
GRS-DT-40-230-LL3-L-1600	1300	1559	1600	4.943
GRS-DT-40-230-LL3-R-1600	1300	1559	1600	4.943
GRS-DT-40-230-LL3-L-1637	1300	1596	1637	5.010
GRS-DT-40-230-LL3-R-1637	1300	1596	1637	5.010

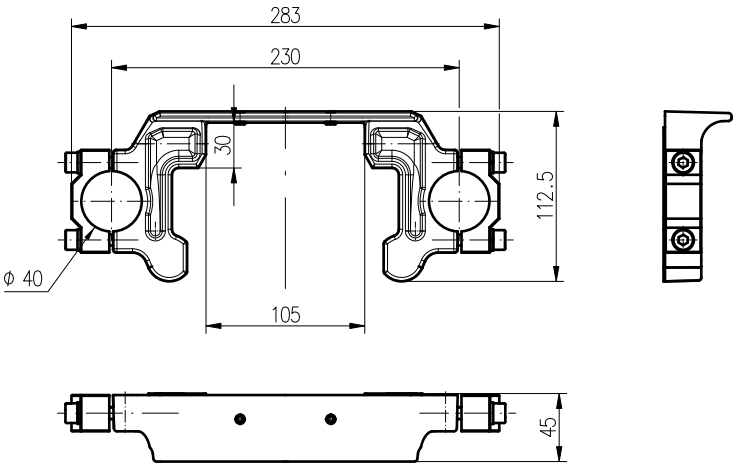
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Carrier tube mount

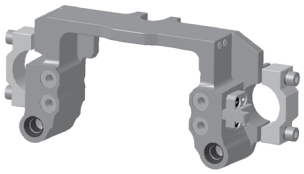


0.72 kg
Material: Aluminium

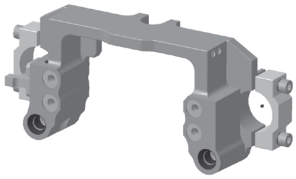


Part no.
GRS-40-50-L1

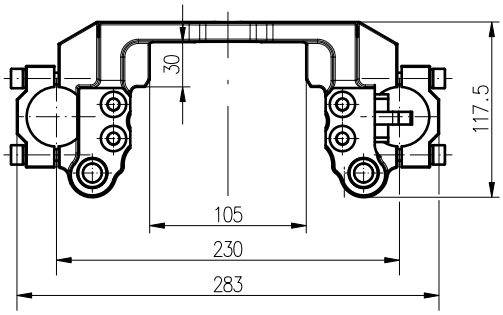
Air coupling for GRS press

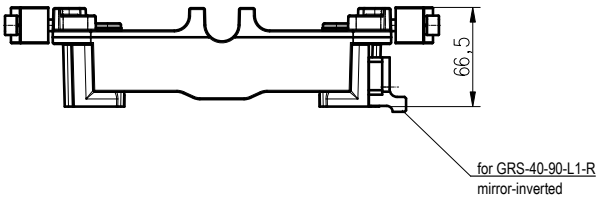


GRS-40-90-L1-L
Material: Aluminium



GRS-40-90-L1-R
Material: Aluminium

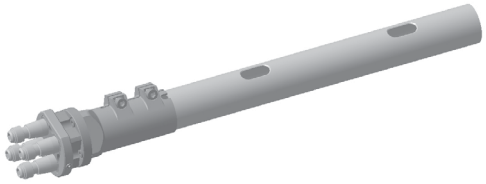




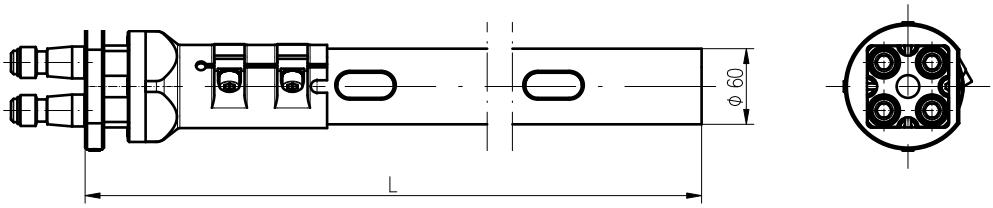
Part no.	(kg)
GRS-40-90-L1-L	1.34
GRS-40-90-L1-R	1.34

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Carrier tube for ISI 4-pin adapter

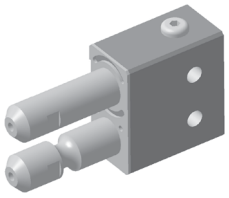


Material: Steel

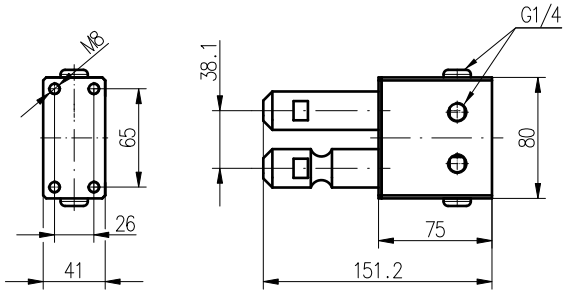


Ordering information	e.g.: ISI-4S-60-1000
ISI-4S-60	-L
	Length
	↓
	400 - 1500 (100mm Increments)

ISI-Norgren 2-pin adapter



1.285 kg
Material: Aluminium / Steel pins



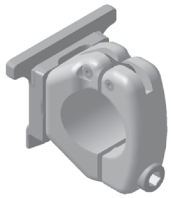
Part no.
ISI-2S-B-A2

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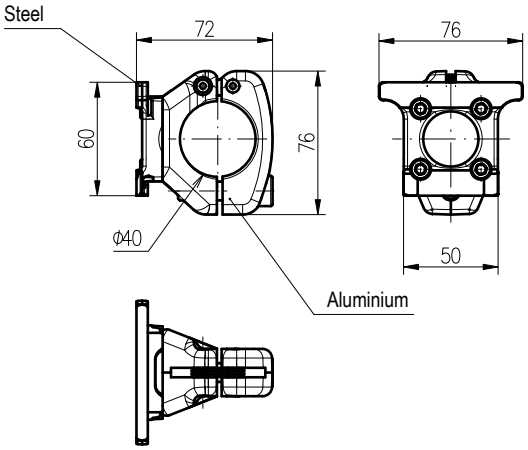
Quick release disconnect and connection

Tooling clamp

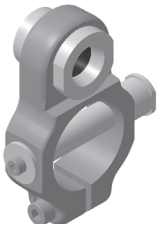


0.621 kg

Part no.
GRS-Z40-76-60

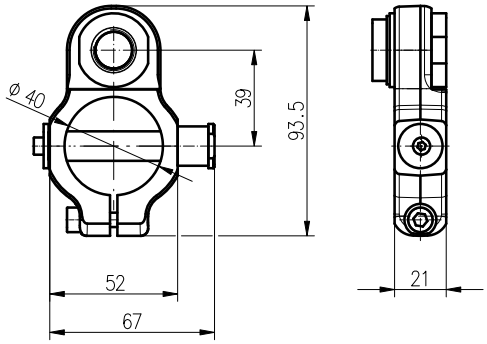


Adapter for air connection, left

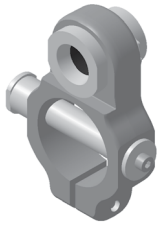


0.251 kg
Material: Aluminium

Part no.
GRS-40-39-A1-L

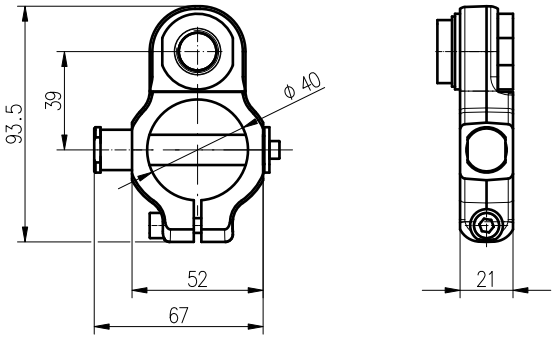


Adapter for air connection, right



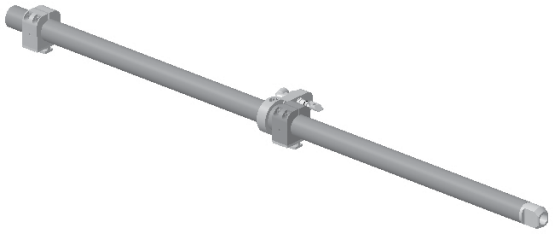
0.251 kg
Material: Aluminium

Part no.
GRS-40-39-A1-R

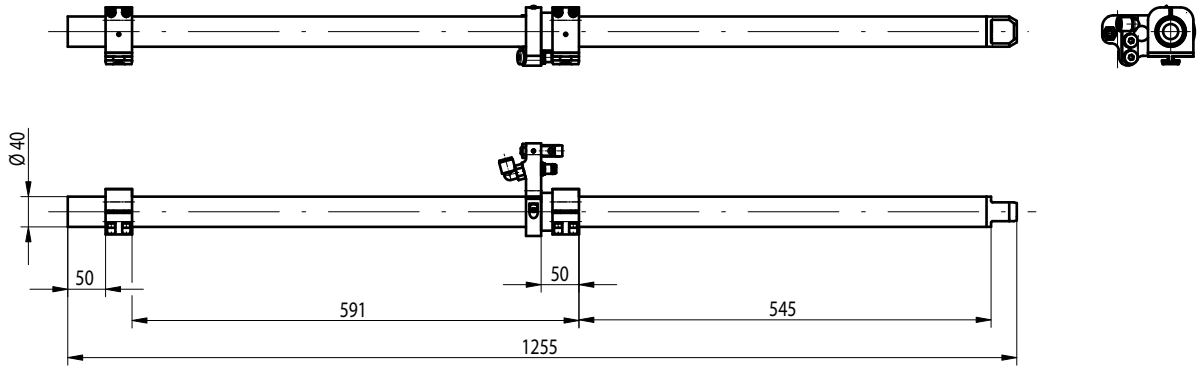


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PXL-single tooling, right

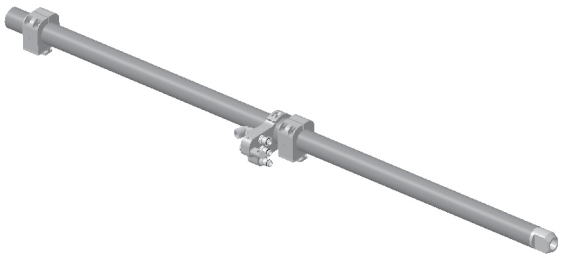


2.44 kg
Material: Aluminium

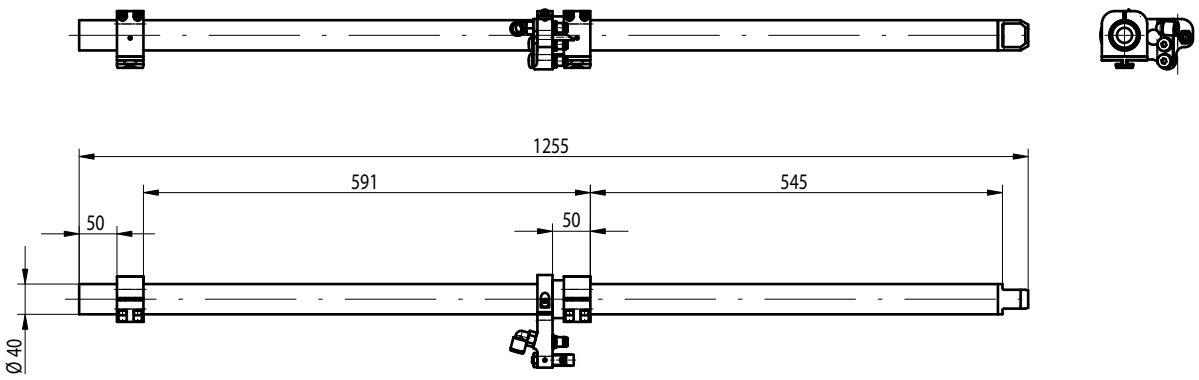


Part no.
CBF-ET-40-BRK03-R-591-1255*

PXL-single tooling, left



2.44 kg
Material: Aluminium



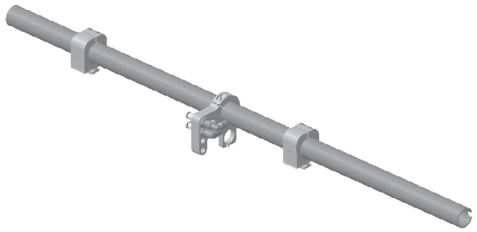
Part no.
CBF-ET-40-BRK03-L-591-1255*

*other variants on request

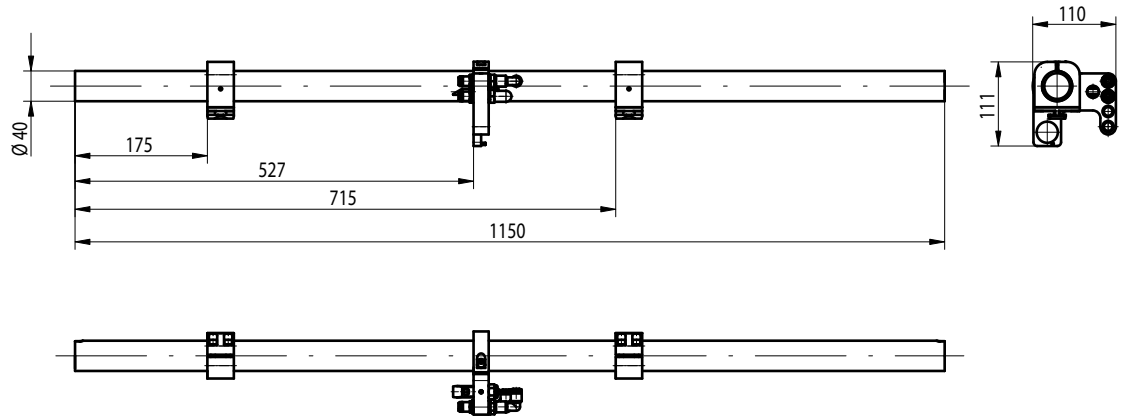
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Base tube for End of Line, right

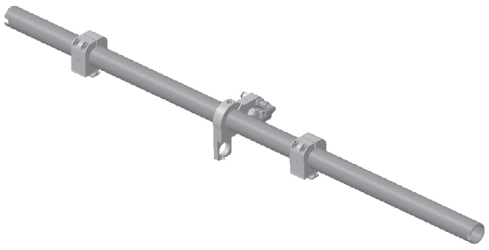


2.17 kg
Material: Aluminium

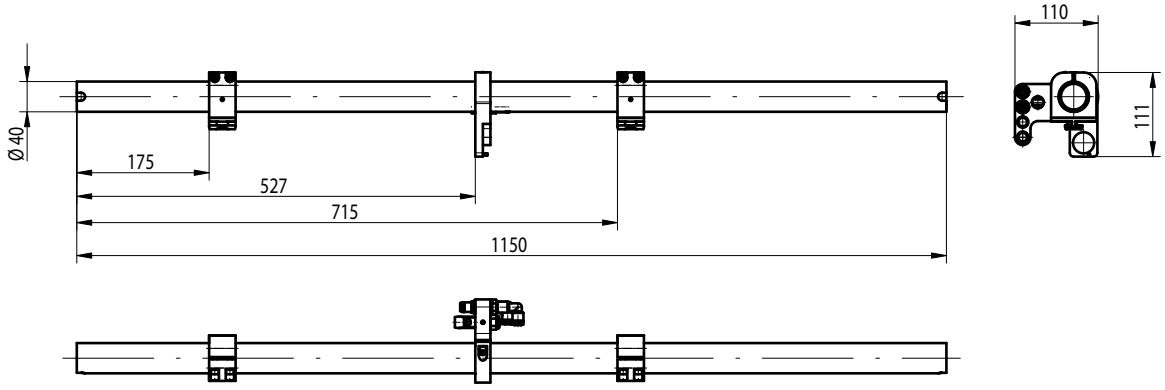


Part no.
CBF-ET-40-BRK19-R-1150*

Base tube for End of Line, left



2.17 kg
Material: Aluminium



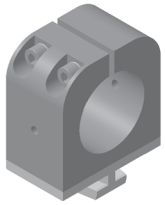
Part no.
CBF-ET-40-BRK19-L-1150*

*other variants on request

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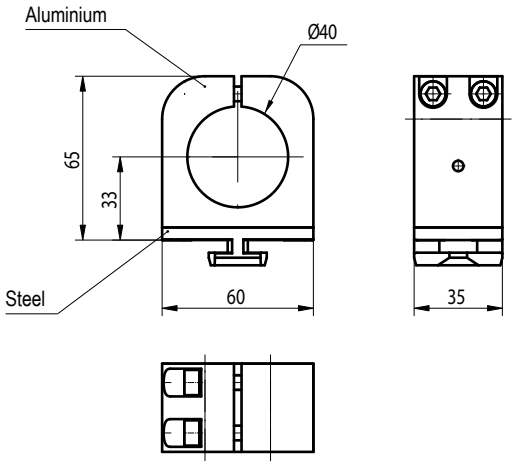
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Holder with T-guide

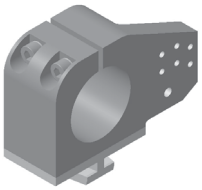


0.34 kg
Material: Aluminium / Steel

Part no.
ET-40-BRK-H

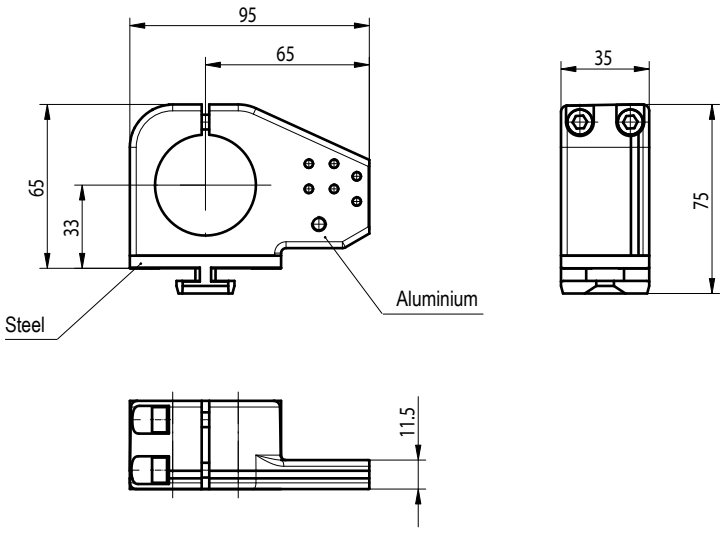


Holder with T guide and coding, left

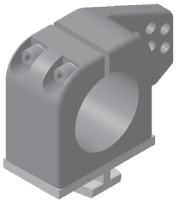


0.38 kg
Material: Aluminium / Steel

Part no.
ET-40-BRK-H-C-L

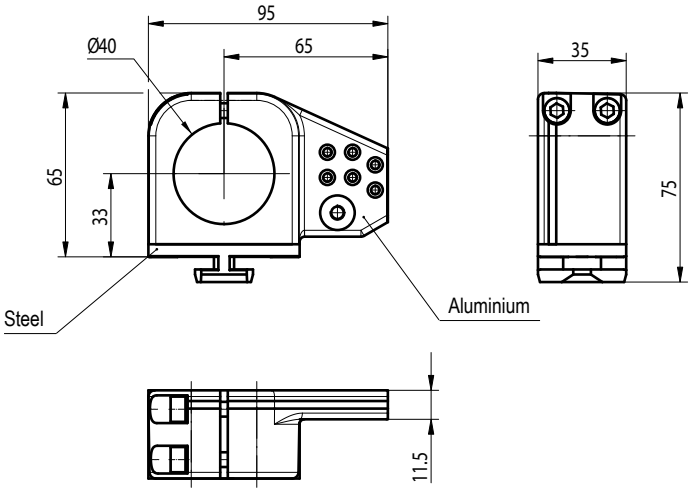


Holder with T guide and coding, right



0.38 kg
Material: Aluminium / Steel

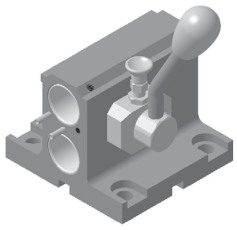
Part no.
ET-40-BRK-H-C-R



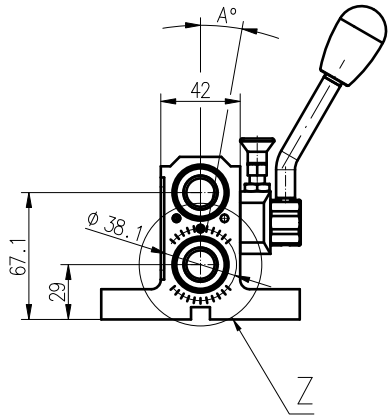
Subject to modification
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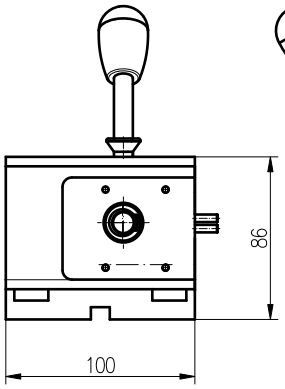
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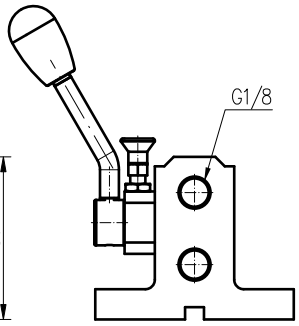
Coupling right with Code left

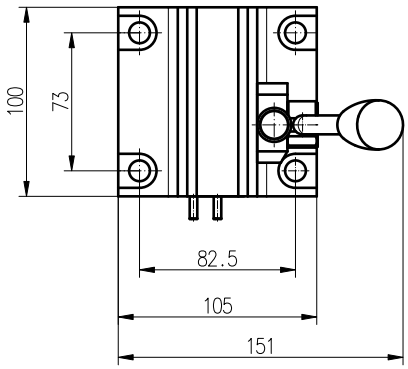


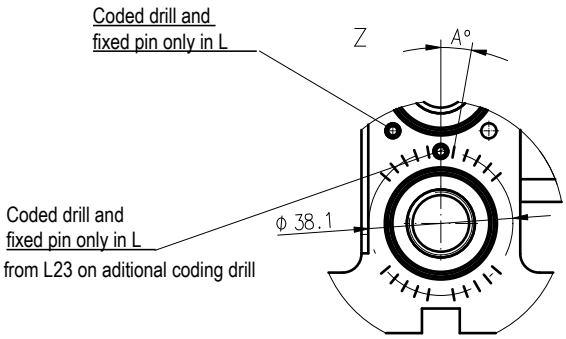
1.286 kg
Material: Aluminium











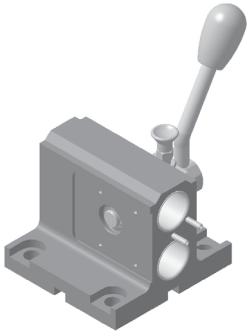
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-A2-L01	L01	L + 0°	2
ISI-2S-K-A2-L02	L02	L + 10°	
ISI-2S-K-A2-L03	L03	L + 20°	
ISI-2S-K-A2-L04	L04	L + 30°	
ISI-2S-K-A2-L05	L05	L + 40°	
ISI-2S-K-A2-L06	L06	L + 50°	
ISI-2S-K-A2-L07	L07	L + 130°	
ISI-2S-K-A2-L08	L08	L + 140°	
ISI-2S-K-A2-L09	L09	L + 150°	
ISI-2S-K-A2-L10	L10	L + 160°	
ISI-2S-K-A2-L11	L11	L + 170°	
ISI-2S-K-A2-L12	L12	L + 180°	
ISI-2S-K-A2-L13	L13	L +190°	
ISI-2S-K-A2-L14	L14	L + 200°	
ISI-2S-K-A2-L15	L15	L + 210°	
ISI-2S-K-A2-L16	L16	L + 220°	
ISI-2S-K-A2-L17	L17	L + 230°	
ISI-2S-K-A2-L18	L18	L + 310°	
ISI-2S-K-A2-L19	L19	L + 320°	
ISI-2S-K-A2-L20	L20	L + 330°	

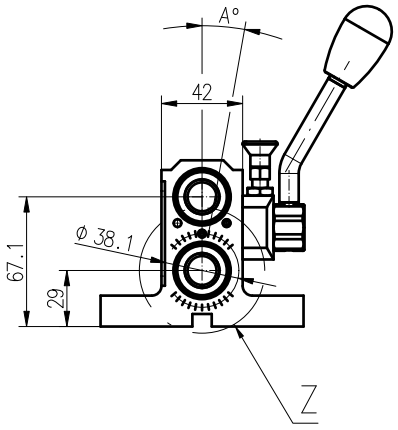
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-A2-L21	L21	L + 340°	2
ISI-2S-K-A2-L22	L22	L + 350°	
ISI-2S-K-A2-L23	L23	L + 0° + 30°	3
ISI-2S-K-A2-L24	L24	L + 10° + 40°	
ISI-2S-K-A2-L25	L25	L + 20° + 50°	
ISI-2S-K-A2-L26	L26	L + 0° + 130°	
ISI-2S-K-A2-L27	L27	L + 0° + 140°	
ISI-2S-K-A2-L28	L28	L + 0° + 150°	
ISI-2S-K-A2-L29	L29	L + 0° + 160°	
ISI-2S-K-A2-L30	L30	L + 0° + 170°	

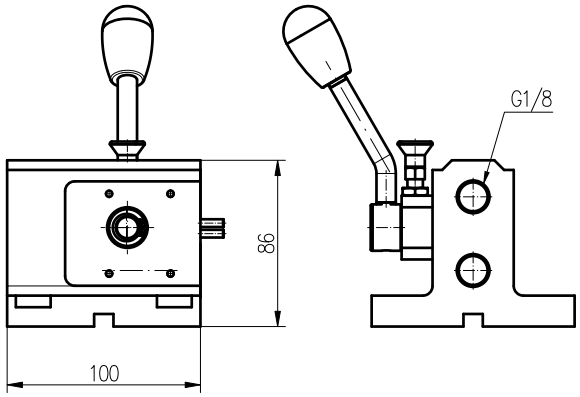
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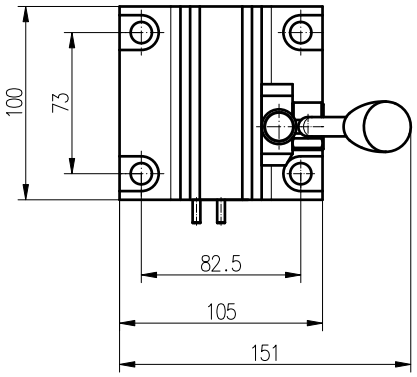
Coupling right with code right

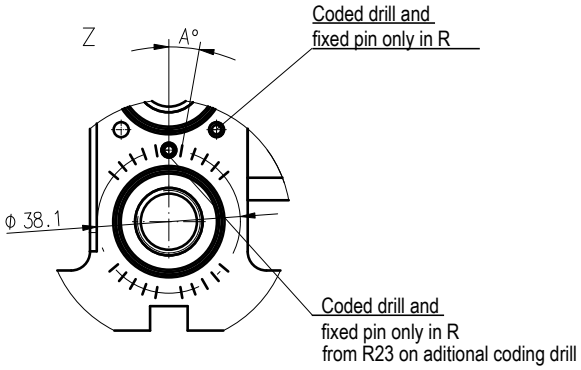






1.286 kg
Material: Aluminium





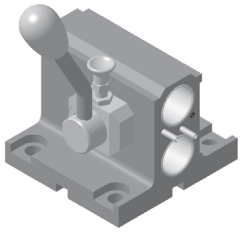
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-A2-R01	R01	R + 0°	2
ISI-2S-K-A2-R02	R02	R + 10°	
ISI-2S-K-A2-R03	R03	R + 20°	
ISI-2S-K-A2-R04	R04	R + 30°	
ISI-2S-K-A2-R05	R05	R + 40°	
ISI-2S-K-A2-R06	R06	R + 50°	
ISI-2S-K-A2-R07	R07	R + 130°	
ISI-2S-K-A2-R08	R08	R + 140°	
ISI-2S-K-A2-R09	R09	R + 150°	
ISI-2S-K-A2-R10	R10	R + 160°	
ISI-2S-K-A2-R11	R11	R + 170°	
ISI-2S-K-A2-R12	R12	R + 180°	
ISI-2S-K-A2-R13	R13	R +190°	
ISI-2S-K-A2-R14	R14	R + 200°	
ISI-2S-K-A2-R15	R15	R + 210°	
ISI-2S-K-A2-R16	R16	R + 220°	
ISI-2S-K-A2-R17	R17	R + 230°	
ISI-2S-K-A2-R18	R18	R + 310°	
ISI-2S-K-A2-R19	R19	R + 320°	
ISI-2S-K-A2-R20	R20	R + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-A2-R21	R21	R + 340°	2
ISI-2S-K-A2-R22	R22	R + 350°	
ISI-2S-K-A2-R23	R23	R + 0° + 30°	3
ISI-2S-K-A2-R24	R24	R + 10° + 40°	
ISI-2S-K-A2-R25	R25	R + 20° + 50°	
ISI-2S-K-A2-R26	R26	R + 0° + 130°	
ISI-2S-K-A2-R27	R27	R + 0° + 140°	
ISI-2S-K-A2-R28	R28	R + 0° + 150°	
ISI-2S-K-A2-R29	R29	R + 0° + 160°	
ISI-2S-K-A2-R30	R30	R + 0° + 170°	

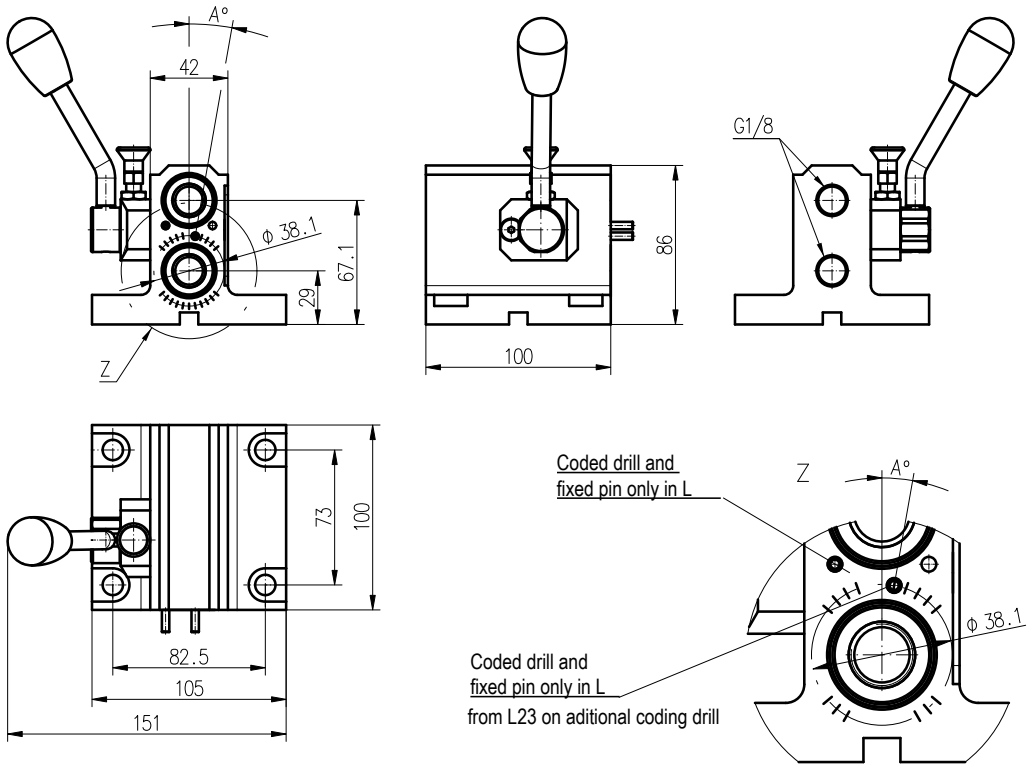
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Coupling, left with Code left



1.286 kg
Material: Aluminium



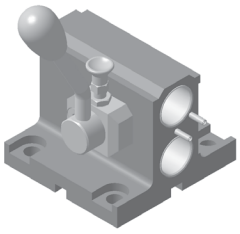
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-A2-L-L01	L01	L + 0°	2
ISI-2S-K-A2-L-L02	L02	L + 10°	
ISI-2S-K-A2-L-L03	L03	L + 20°	
ISI-2S-K-A2-L-L04	L04	L + 30°	
ISI-2S-K-A2-L-L05	L05	L + 40°	
ISI-2S-K-A2-L-L06	L06	L + 50°	
ISI-2S-K-A2-L-L07	L07	L + 130°	
ISI-2S-K-A2-L-L08	L08	L + 140°	
ISI-2S-K-A2-L-L09	L09	L + 150°	
ISI-2S-K-A2-L-L10	L10	L + 160°	
ISI-2S-K-A2-L-L11	L11	L + 170°	
ISI-2S-K-A2-L-L12	L12	L + 180°	
ISI-2S-K-A2-L-L13	L13	L +190°	
ISI-2S-K-A2-L-L14	L14	L + 200°	
ISI-2S-K-A2-L-L15	L15	L + 210°	
ISI-2S-K-A2-L-L16	L16	L + 220°	
ISI-2S-K-A2-L-L17	L17	L + 230°	
ISI-2S-K-A2-L-L18	L18	L + 310°	
ISI-2S-K-A2-L-L19	L19	L + 320°	
ISI-2S-K-A2-L-L20	L20	L + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-A2-L-L21	L21	L + 340°	2
ISI-2S-K-A2-L-L22	L22	L + 350°	
ISI-2S-K-A2-L-L23	L23	L + 0° + 30°	3
ISI-2S-K-A2-L-L24	L24	L + 10° + 40°	
ISI-2S-K-A2-L-L25	L25	L + 20° + 50°	
ISI-2S-K-A2-L-L26	L26	L + 0° + 130°	
ISI-2S-K-A2-L-L27	L27	L + 0° + 140°	
ISI-2S-K-A2-L-L28	L28	L + 0° + 150°	
ISI-2S-K-A2-L-L29	L29	L + 0° + 160°	
ISI-2S-K-A2-L-L30	L30	L + 0° + 170°	

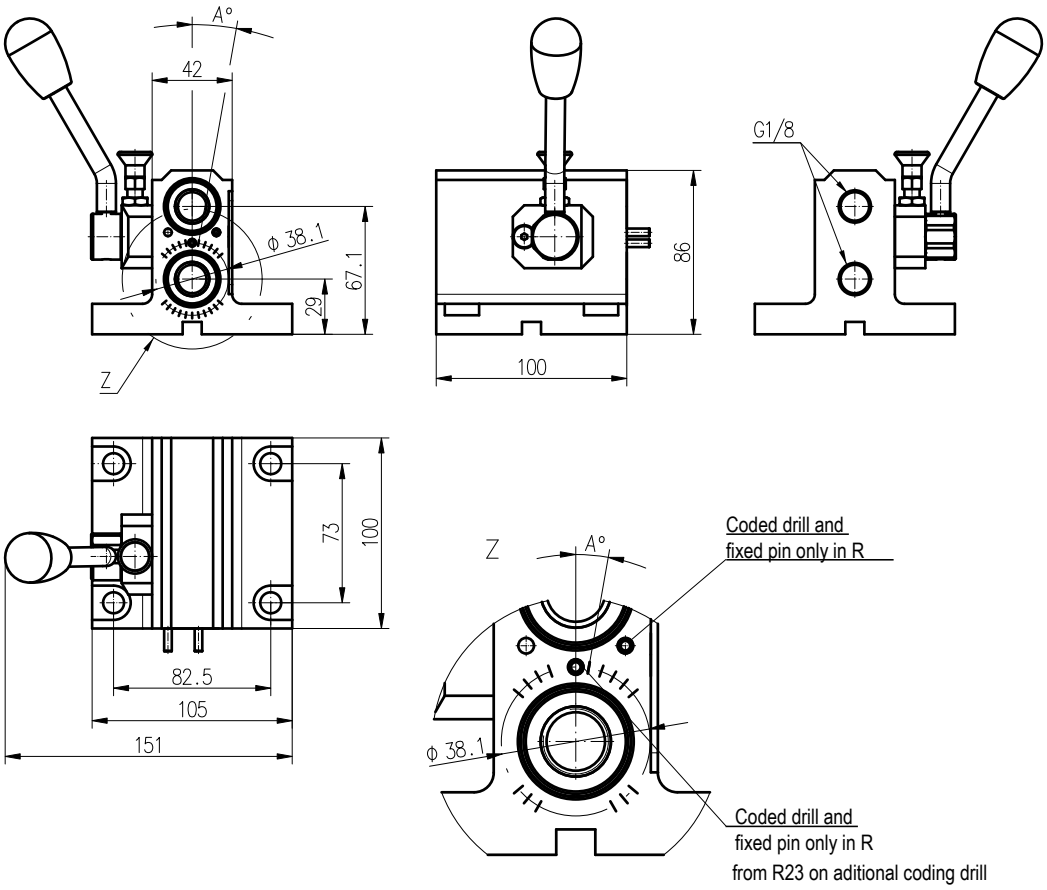
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Coupling, left with Code right



1.286 kg
Material: Aluminium



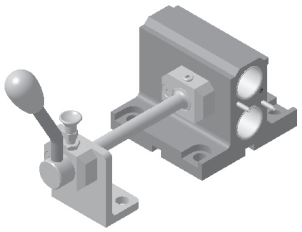
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-A2-L-R01	R01	R + 0°	2
ISI-2S-K-A2-L-R02	R02	R + 10°	
ISI-2S-K-A2-L-R03	R03	R + 20°	
ISI-2S-K-A2-L-R04	R04	R + 30°	
ISI-2S-K-A2-L-R05	R05	R + 40°	
ISI-2S-K-A2-L-R06	R06	R + 50°	
ISI-2S-K-A2-L-R07	R07	R + 130°	
ISI-2S-K-A2-L-R08	R08	R + 140°	
ISI-2S-K-A2-L-R09	R09	R + 150°	
ISI-2S-K-A2-L-R10	R10	R + 160°	
ISI-2S-K-A2-L-R11	R11	R + 170°	
ISI-2S-K-A2-L-R12	R12	R + 180°	
ISI-2S-K-A2-L-R13	R13	R +190°	
ISI-2S-K-A2-L-R14	R14	R + 200°	
ISI-2S-K-A2-L-R15	R15	R + 210°	
ISI-2S-K-A2-L-R16	R16	R + 220°	
ISI-2S-K-A2-L-R17	R17	R + 230°	
ISI-2S-K-A2-L-R18	R18	R + 310°	
ISI-2S-K-A2-L-R19	R19	R + 320°	
ISI-2S-K-A2-L-R20	R20	R + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-A2-L-R21	R21	R + 340°	2
ISI-2S-K-A2-L-R22	R22	R + 350°	
ISI-2S-K-A2-L-R23	R23	R + 0° + 30°	3
ISI-2S-K-A2-L-R24	R24	R + 10° + 40°	
ISI-2S-K-A2-L-R25	R25	R + 20° + 50°	
ISI-2S-K-A2-L-R26	R26	R + 0° + 130°	
ISI-2S-K-A2-L-R27	R27	R + 0° + 140°	
ISI-2S-K-A2-L-R28	R28	R + 0° + 150°	
ISI-2S-K-A2-L-R29	R29	R + 0° + 160°	
ISI-2S-K-A2-L-R30	R30	R + 0° + 170°	

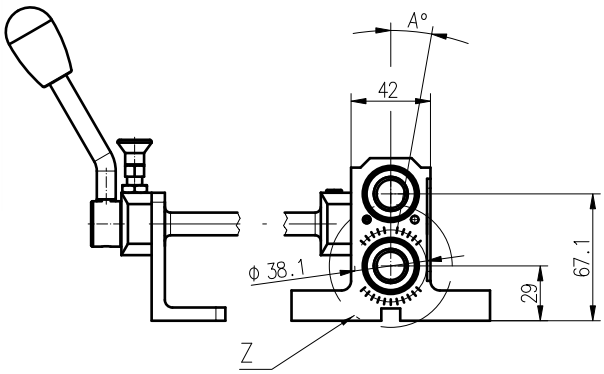
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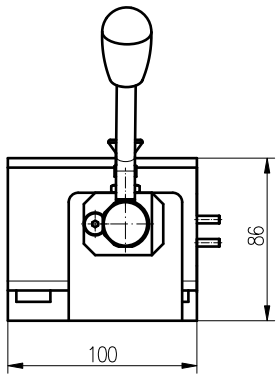
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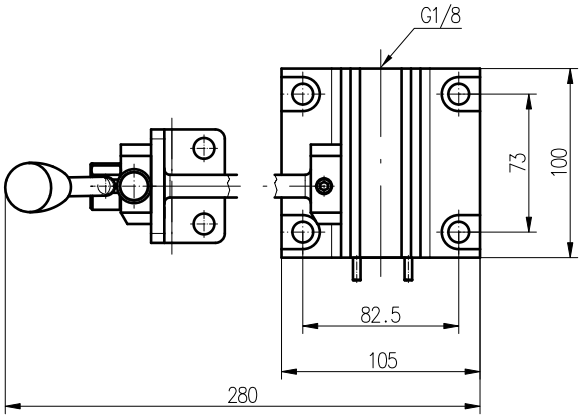
Coupling left with code left

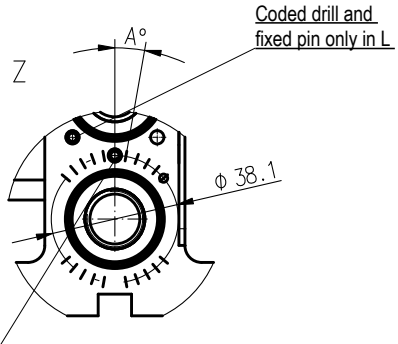


1.80 kg
Material: Aluminium









Coded drill and
fixed pin only in L
from R23 on aditional coding drill

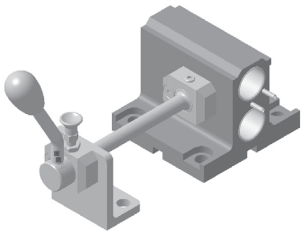
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM-L-L01	L01	L + 0°	2
ISI-2S-K-NSM-L-L02	L02	L + 10°	
ISI-2S-K-NSM-L-L03	L03	L + 20°	
ISI-2S-K-NSM-L-L04	L04	L + 30°	
ISI-2S-K-NSM-L-L05	L05	L + 40°	
ISI-2S-K-NSM-L-L06	L06	L + 50°	
ISI-2S-K-NSM-L-L07	L07	L + 130°	
ISI-2S-K-NSM-L-L08	L08	L + 140°	
ISI-2S-K-NSM-L-L09	L09	L + 150°	
ISI-2S-K-NSM-L-L10	L10	L + 160°	
ISI-2S-K-NSM-L-L11	L11	L + 170°	
ISI-2S-K-NSM-L-L12	L12	L + 180°	
ISI-2S-K-NSM-L-L13	L13	L +190°	
ISI-2S-K-NSM-L-L14	L14	L + 200°	
ISI-2S-K-NSM-L-L15	L15	L + 210°	
ISI-2S-K-NSM-L-L16	L16	L + 220°	
ISI-2S-K-NSM-L-L17	L17	L + 230°	
ISI-2S-K-NSM-L-L18	L18	L + 310°	
ISI-2S-K-NSM-L-L19	L19	L + 320°	
ISI-2S-K-NSM-L-L20	L20	L + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM-L-L21	L21	L + 340°	2
ISI-2S-K-NSM-L-L22	L22	L + 350°	
ISI-2S-K-NSM-L-L23	L23	L + 0° + 30°	3
ISI-2S-K-NSM-L-L24	L24	L + 10° + 40°	
ISI-2S-K-NSM-L-L25	L25	L + 20° + 50°	
ISI-2S-K-NSM-L-L26	L26	L + 0° + 130°	
ISI-2S-K-NSM-L-L27	L27	L + 0° + 140°	
ISI-2S-K-NSM-L-L28	L28	L + 0° + 150°	
ISI-2S-K-NSM-L-L29	L29	L + 0° + 160°	
ISI-2S-K-NSM-L-L30	L30	L + 0° + 170°	

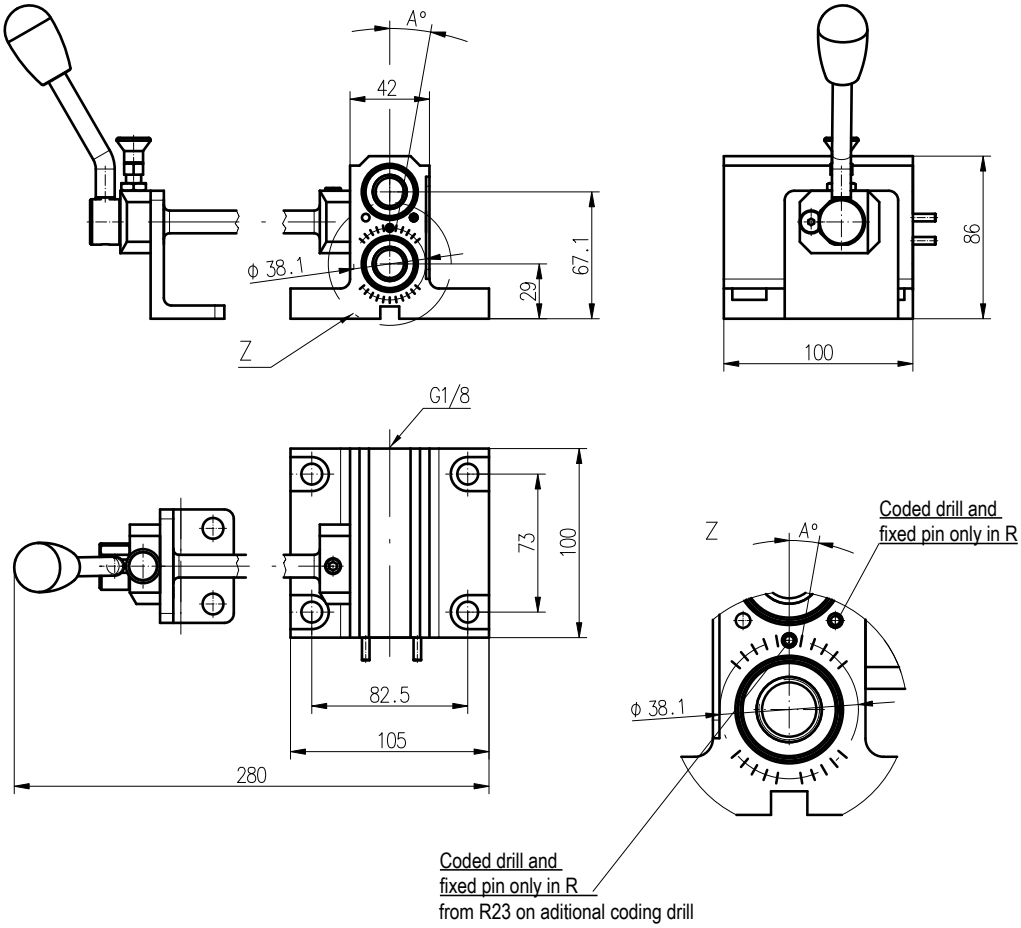
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Coupling left with code right



1.80 kg
Material: Aluminium



Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM-L-R01	L01	R + 0°	2
ISI-2S-K-NSM-L-R02	L02	R + 10°	
ISI-2S-K-NSM-L-R03	L03	R + 20°	
ISI-2S-K-NSM-L-R04	L04	R + 30°	
ISI-2S-K-NSM-L-R05	L05	R + 40°	
ISI-2S-K-NSM-L-R06	L06	R + 50°	
ISI-2S-K-NSM-L-R07	L07	R + 130°	
ISI-2S-K-NSM-L-R08	L08	R + 140°	
ISI-2S-K-NSM-L-R09	L09	R + 150°	
ISI-2S-K-NSM-L-R10	L10	R + 160°	
ISI-2S-K-NSM-L-R11	L11	R + 170°	
ISI-2S-K-NSM-L-R12	L12	R + 180°	
ISI-2S-K-NSM-L-R13	L13	R +190°	
ISI-2S-K-NSM-L-R14	L14	R + 200°	
ISI-2S-K-NSM-L-R15	L15	R + 210°	
ISI-2S-K-NSM-L-R16	L16	R + 220°	
ISI-2S-K-NSM-L-R17	L17	R + 230°	
ISI-2S-K-NSM-L-R18	L18	R + 310°	
ISI-2S-K-NSM-L-R19	L19	R + 320°	
ISI-2S-K-NSM-L-R20	L20	R + 330°	

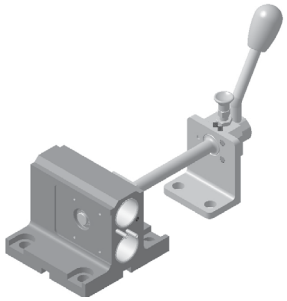
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM-L-R21	L21	R + 340°	2
ISI-2S-K-NSM-L-R22	L22	R + 350°	
ISI-2S-K-NSM-L-R23	L23	R + 0° + 30°	3
ISI-2S-K-NSM-L-R24	L24	R + 10° + 40°	
ISI-2S-K-NSM-L-R25	L25	R + 20° + 50°	
ISI-2S-K-NSM-L-R26	L26	R + 0° + 130°	
ISI-2S-K-NSM-L-R27	L27	R + 0° + 140°	
ISI-2S-K-NSM-L-R28	L28	R + 0° + 150°	
ISI-2S-K-NSM-L-R29	L29	R + 0° + 160°	
ISI-2S-K-NSM-L-R30	L30	R + 0° + 170°	

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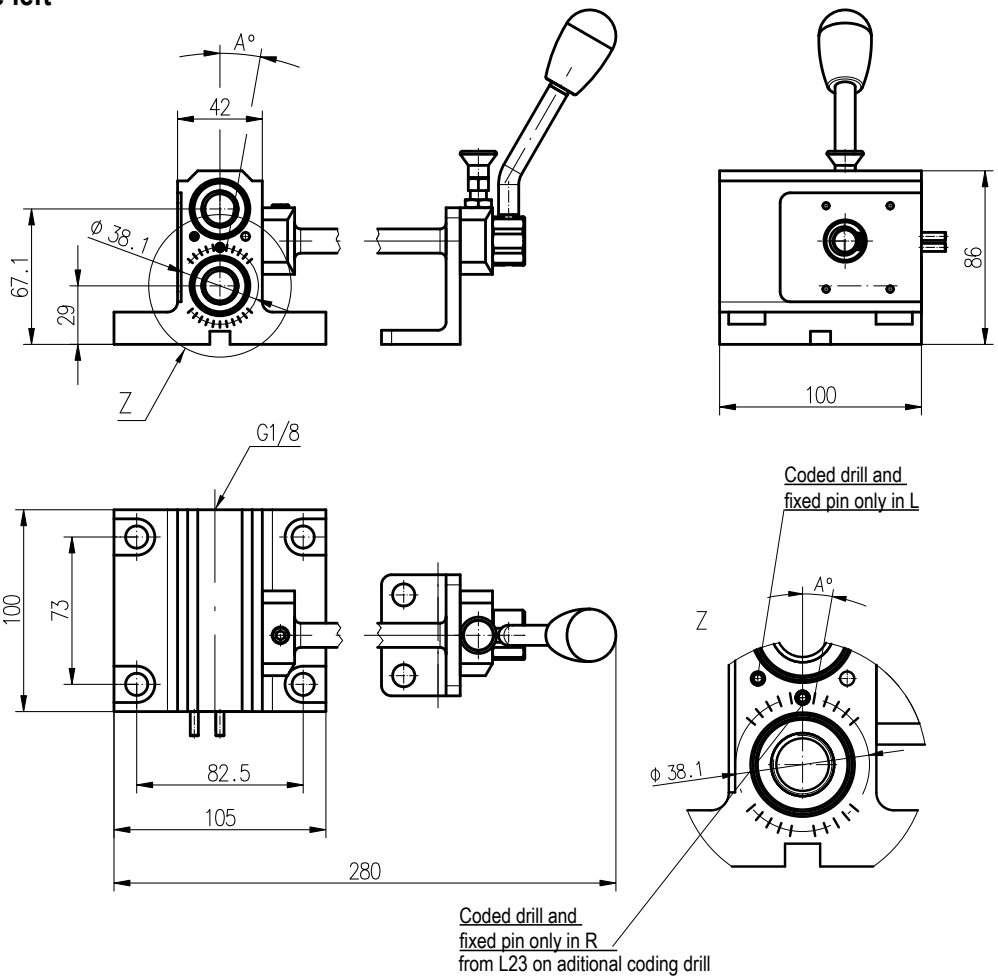
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Quick release disconnect and connection

Coupling right with code left



1.286 kg
Material: Aluminium



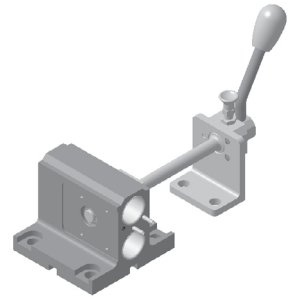
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM-R-L01	L01	L + 0°	2
ISI-2S-K-NSM-R-L02	L02	L + 10°	
ISI-2S-K-NSM-R-L03	L03	L + 20°	
ISI-2S-K-NSM-R-L04	L04	L + 30°	
ISI-2S-K-NSM-R-L05	L05	L + 40°	
ISI-2S-K-NSM-R-L06	L06	L + 50°	
ISI-2S-K-NSM-R-L07	L07	L + 130°	
ISI-2S-K-NSM-R-L08	L08	L + 140°	
ISI-2S-K-NSM-R-L09	L09	L + 150°	
ISI-2S-K-NSM-R-L10	L10	L + 160°	
ISI-2S-K-NSM-R-L11	L11	L + 170°	
ISI-2S-K-NSM-R-L12	L12	L + 180°	
ISI-2S-K-NSM-R-L13	L13	L +190°	
ISI-2S-K-NSM-R-L14	L14	L + 200°	
ISI-2S-K-NSM-R-L15	L15	L + 210°	
ISI-2S-K-NSM-R-L16	L16	L + 220°	
ISI-2S-K-NSM-R-L17	L17	L + 230°	
ISI-2S-K-NSM-R-L18	L18	L + 310°	
ISI-2S-K-NSM-R-L19	L19	L + 320°	
ISI-2S-K-NSM-R-L20	L20	L + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM-R-L21	L21	L + 340°	2
ISI-2S-K-NSM-R-L22	L22	L + 350°	
ISI-2S-K-NSM-R-L23	L23	L + 0° + 30°	3
ISI-2S-K-NSM-R-L24	L24	L + 10° + 40°	
ISI-2S-K-NSM-R-L25	L25	L + 20° + 50°	
ISI-2S-K-NSM-R-L26	L26	L + 0° + 130°	
ISI-2S-K-NSM-R-L27	L27	L + 0° + 140°	
ISI-2S-K-NSM-R-L28	L28	L + 0° + 150°	
ISI-2S-K-NSM-R-L29	L29	L + 0° + 160°	
ISI-2S-K-NSM-R-L30	L30	L + 0° + 170°	

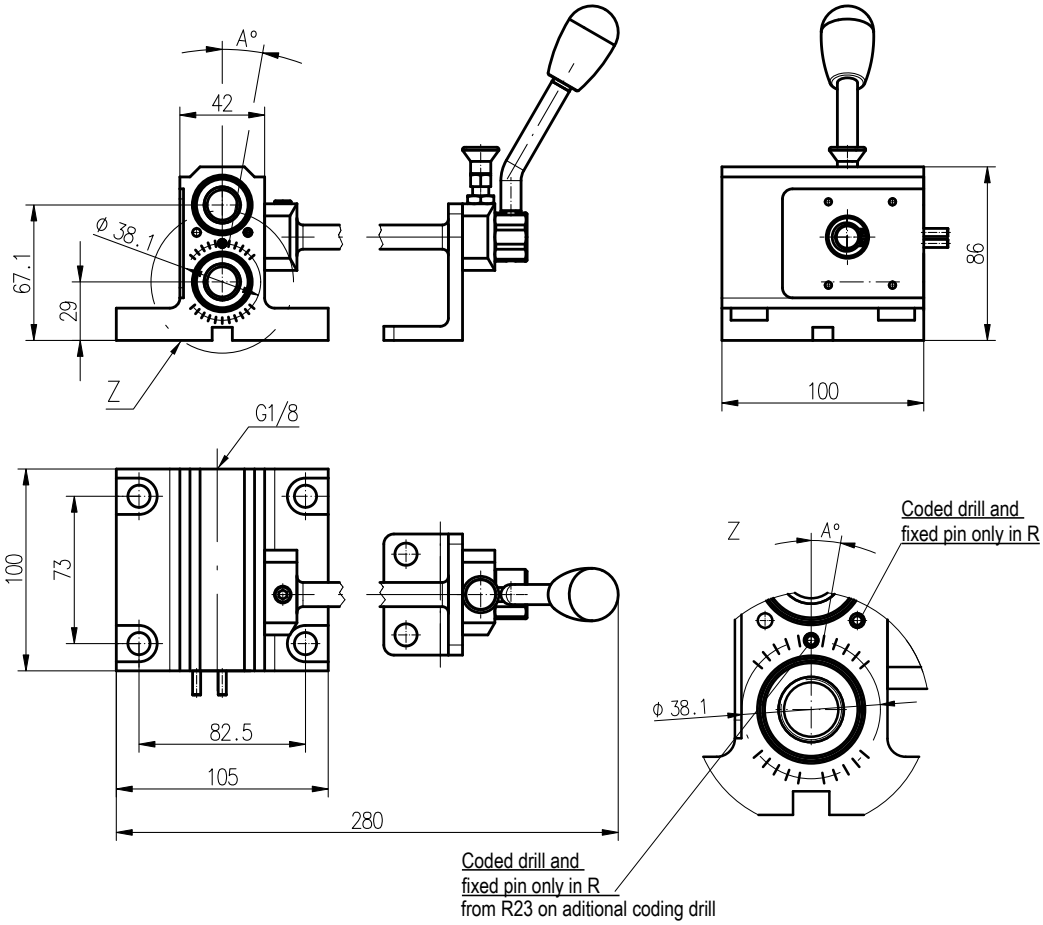
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Coupling right with code right



1.80 kg
Material: Aluminium



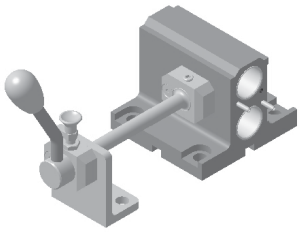
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM-R-R01	R01	R + 0°	2
ISI-2S-K-NSM-R-R02	R02	R + 10°	
ISI-2S-K-NSM-R-R03	R03	R + 20°	
ISI-2S-K-NSM-R-R04	R04	R + 30°	
ISI-2S-K-NSM-R-R05	R05	R + 40°	
ISI-2S-K-NSM-R-R06	R06	R + 50°	
ISI-2S-K-NSM-R-R07	R07	R + 130°	
ISI-2S-K-NSM-R-R08	R08	R + 140°	
ISI-2S-K-NSM-R-R09	R09	R + 150°	
ISI-2S-K-NSM-R-R10	R10	R + 160°	
ISI-2S-K-NSM-R-R11	R11	R + 170°	
ISI-2S-K-NSM-R-R12	R12	R + 180°	
ISI-2S-K-NSM-R-R13	R13	R +190°	
ISI-2S-K-NSM-R-R14	R14	R + 200°	
ISI-2S-K-NSM-R-R15	R15	R + 210°	
ISI-2S-K-NSM-R-R16	R16	R + 220°	
ISI-2S-K-NSM-R-R17	R17	R + 230°	
ISI-2S-K-NSM-R-R18	R18	R + 310°	
ISI-2S-K-NSM-R-R19	R19	R + 320°	
ISI-2S-K-NSM-R-R20	R20	R + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM-R-R21	R21	R + 340°	2
ISI-2S-K-NSM-R-R22	R22	R + 350°	
ISI-2S-K-NSM-R-R23	R23	R + 0° + 30°	3
ISI-2S-K-NSM-R-R24	R24	R + 10° + 40°	
ISI-2S-K-NSM-R-R25	R25	R + 20° + 50°	
ISI-2S-K-NSM-R-R26	R26	R + 0° + 130°	
ISI-2S-K-NSM-R-R27	R27	R + 0° + 140°	
ISI-2S-K-NSM-R-R28	R28	R + 0° + 150°	
ISI-2S-K-NSM-R-R29	R29	R + 0° + 160°	
ISI-2S-K-NSM-R-R30	R30	R + 0° + 170°	

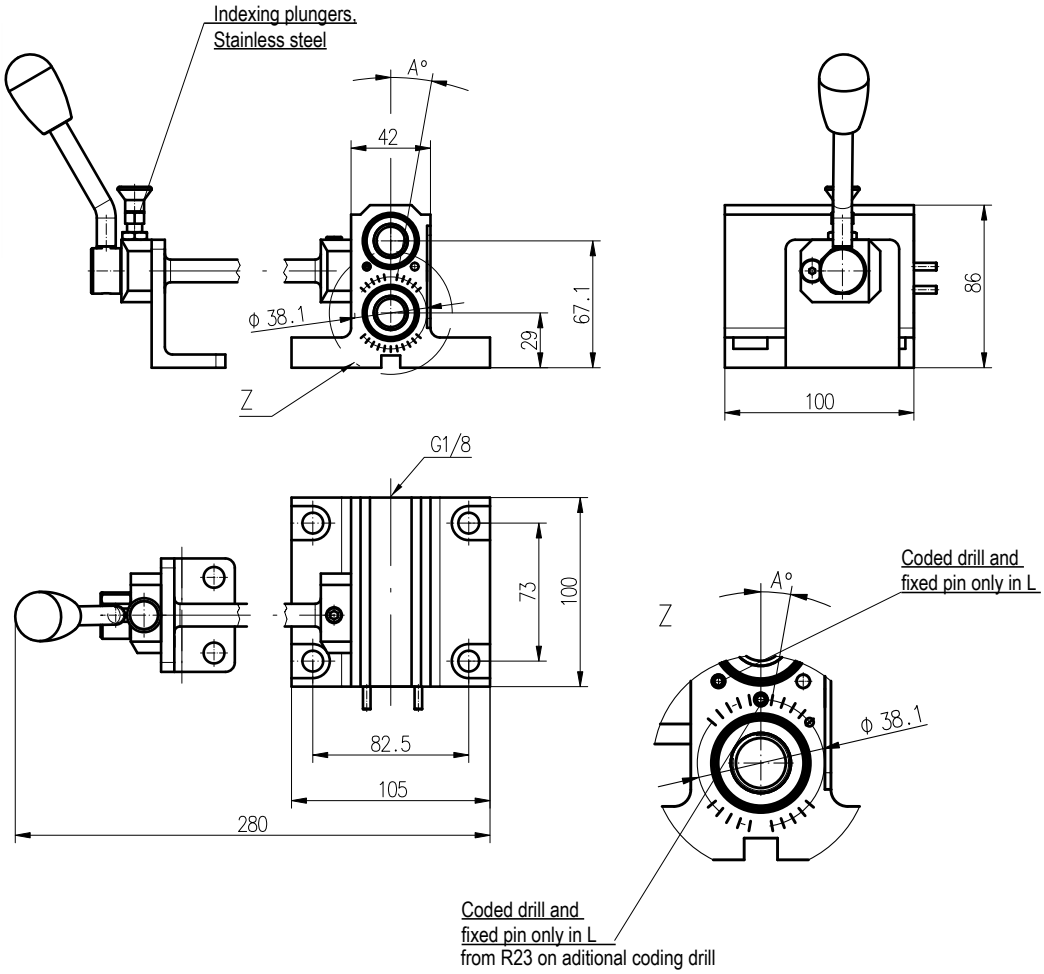
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Coupling left with code left



1.80 kg
Material: Aluminium



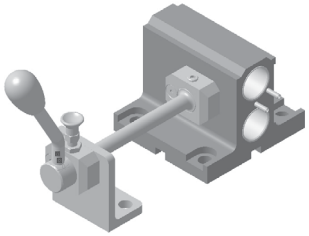
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM2-L-L01	L01	L + 0°	2
ISI-2S-K-NSM2-L-L02	L02	L + 10°	
ISI-2S-K-NSM2-L-L03	L03	L + 20°	
ISI-2S-K-NSM2-L-L04	L04	L + 30°	
ISI-2S-K-NSM2-L-L05	L05	L + 40°	
ISI-2S-K-NSM2-L-L06	L06	L + 50°	
ISI-2S-K-NSM2-L-L07	L07	L + 130°	
ISI-2S-K-NSM2-L-L08	L08	L + 140°	
ISI-2S-K-NSM2-L-L09	L09	L + 150°	
ISI-2S-K-NSM2-L-L10	L10	L + 160°	
ISI-2S-K-NSM2-L-L11	L11	L + 170°	
ISI-2S-K-NSM2-L-L12	L12	L + 180°	
ISI-2S-K-NSM2-L-L13	L13	L +190°	
ISI-2S-K-NSM2-L-L14	L14	L + 200°	
ISI-2S-K-NSM2-L-L15	L15	L + 210°	
ISI-2S-K-NSM2-L-L16	L16	L + 220°	
ISI-2S-K-NSM2-L-L17	L17	L + 230°	
ISI-2S-K-NSM2-L-L18	L18	L + 310°	
ISI-2S-K-NSM2-L-L19	L19	L + 320°	
ISI-2S-K-NSM2-L-L20	L20	L + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM2-L-L21	L21	L + 340°	2
ISI-2S-K-NSM2-L-L22	L22	L + 350°	
ISI-2S-K-NSM2-L-L23	L23	L + 0° + 30°	3
ISI-2S-K-NSM2-L-L24	L24	L + 10° + 40°	
ISI-2S-K-NSM2-L-L25	L25	L + 20° + 50°	
ISI-2S-K-NSM2-L-L26	L26	L + 0° + 130°	
ISI-2S-K-NSM2-L-L27	L27	L + 0° + 140°	
ISI-2S-K-NSM2-L-L28	L28	L + 0° + 150°	
ISI-2S-K-NSM2-L-L29	L29	L + 0° + 160°	
ISI-2S-K-NSM2-L-L30	L30	L + 0° + 170°	

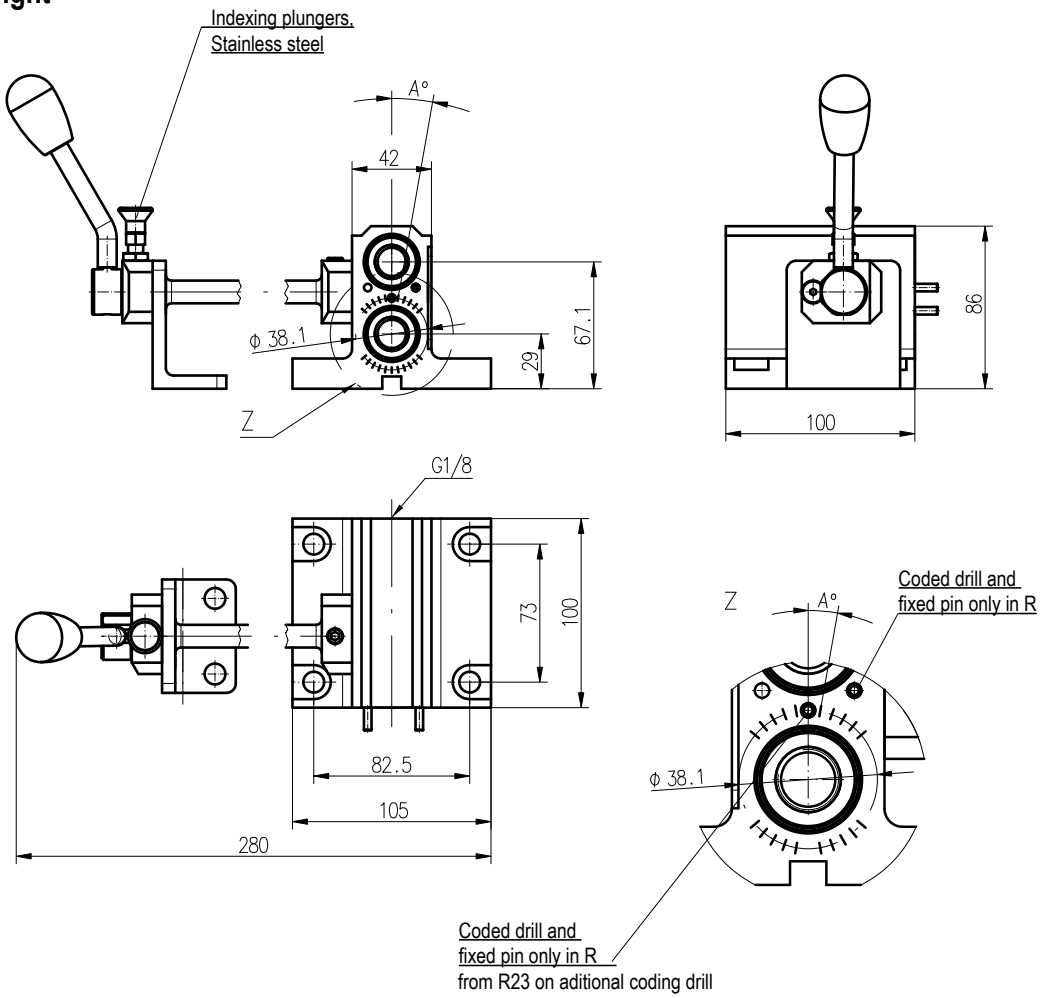
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Coupling left with code right



1.80 kg
Material: Aluminium



Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM2-L-R01	R01	R + 0°	2
ISI-2S-K-NSM2-L-R02	R02	R + 10°	
ISI-2S-K-NSM2-L-R03	R03	R + 20°	
ISI-2S-K-NSM2-L-R04	R04	R + 30°	
ISI-2S-K-NSM2-L-R05	R05	R + 40°	
ISI-2S-K-NSM2-L-R06	R06	R + 50°	
ISI-2S-K-NSM2-L-R07	R07	R + 130°	
ISI-2S-K-NSM2-L-R08	R08	R + 140°	
ISI-2S-K-NSM2-L-R09	R09	R + 150°	
ISI-2S-K-NSM2-L-R10	R10	R + 160°	
ISI-2S-K-NSM2-L-R11	R11	R + 170°	
ISI-2S-K-NSM2-L-R12	R12	R + 180°	
ISI-2S-K-NSM2-L-R13	R13	R +190°	
ISI-2S-K-NSM2-L-R14	R14	R + 200°	
ISI-2S-K-NSM2-L-R15	R15	R + 210°	
ISI-2S-K-NSM2-L-R16	R16	R + 220°	
ISI-2S-K-NSM2-L-R17	R17	R + 230°	
ISI-2S-K-NSM2-L-R18	R18	R + 310°	
ISI-2S-K-NSM2-L-R19	R19	R + 320°	
ISI-2S-K-NSM2-L-R20	R20	R + 330°	

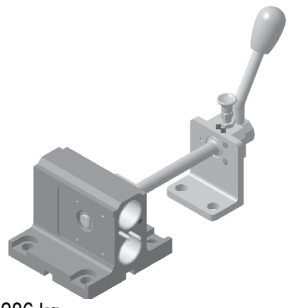
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM2-L-R21	R21	R + 340°	2
ISI-2S-K-NSM2-L-R22	R22	R + 350°	
ISI-2S-K-NSM2-L-R23	R23	R + 0° + 30°	3
ISI-2S-K-NSM2-L-R24	R24	R + 10° + 40°	
ISI-2S-K-NSM2-L-R25	R25	R + 20° + 50°	
ISI-2S-K-NSM2-L-R26	R26	R + 0° + 130°	
ISI-2S-K-NSM2-L-R27	R27	R + 0° + 140°	
ISI-2S-K-NSM2-L-R28	R28	R + 0° + 150°	
ISI-2S-K-NSM2-L-R29	R29	R + 0° + 160°	
ISI-2S-K-NSM2-L-R30	R30	R + 0° + 170°	

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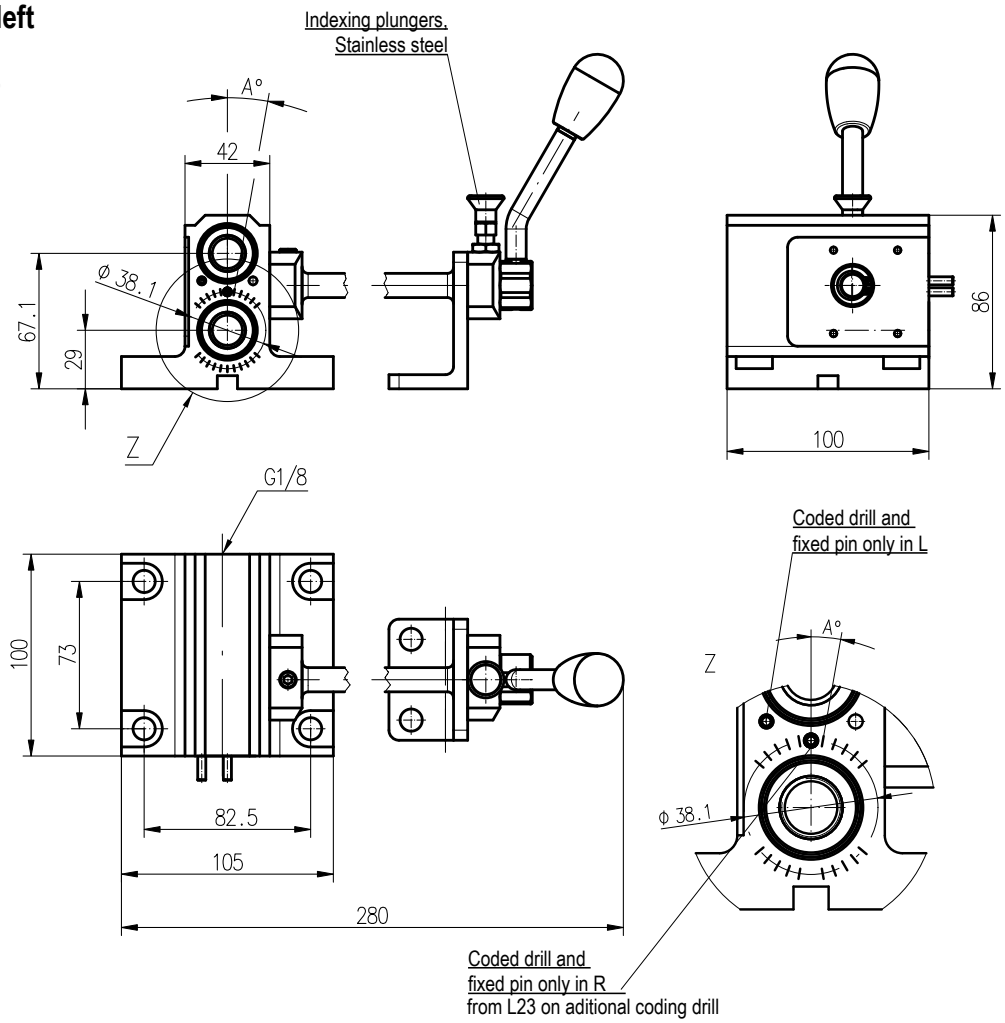
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Quick release disconnect and connection

Coupling right with code left



1.286 kg
Material: Aluminium



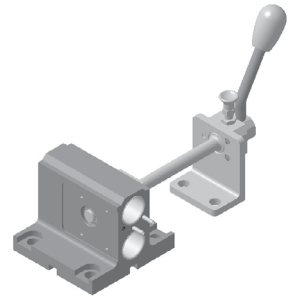
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM2-R-L01	L01	L + 0°	2
ISI-2S-K-NSM2-R-L02	L02	L + 10°	
ISI-2S-K-NSM2-R-L03	L03	L + 20°	
ISI-2S-K-NSM2-R-L04	L04	L + 30°	
ISI-2S-K-NSM2-R-L05	L05	L + 40°	
ISI-2S-K-NSM2-R-L06	L06	L + 50°	
ISI-2S-K-NSM2-R-L07	L07	L + 130°	
ISI-2S-K-NSM2-R-L08	L08	L + 140°	
ISI-2S-K-NSM2-R-L09	L09	L + 150°	
ISI-2S-K-NSM2-R-L10	L10	L + 160°	
ISI-2S-K-NSM2-R-L11	L11	L + 170°	
ISI-2S-K-NSM2-R-L12	L12	L + 180°	
ISI-2S-K-NSM2-R-L13	L13	L +190°	
ISI-2S-K-NSM2-R-L14	L14	L + 200°	
ISI-2S-K-NSM2-R-L15	L15	L + 210°	
ISI-2S-K-NSM2-R-L16	L16	L + 220°	
ISI-2S-K-NSM2-R-L17	L17	L + 230°	
ISI-2S-K-NSM2-R-L18	L18	L + 310°	
ISI-2S-K-NSM2-R-L19	L19	L + 320°	
ISI-2S-K-NSM2-R-L20	L20	L + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM2-R-L21	L21	L + 340°	2
ISI-2S-K-NSM2-R-L22	L22	L + 350°	
ISI-2S-K-NSM2-R-L23	L23	L + 0° + 30°	3
ISI-2S-K-NSM2-R-L24	L24	L + 10° + 40°	
ISI-2S-K-NSM2-R-L25	L25	L + 20° + 50°	
ISI-2S-K-NSM2-R-L26	L26	L + 0° + 130°	
ISI-2S-K-NSM2-R-L27	L27	L + 0° + 140°	
ISI-2S-K-NSM2-R-L28	L28	L + 0° + 150°	
ISI-2S-K-NSM2-R-L29	L29	L + 0° + 160°	
ISI-2S-K-NSM2-R-L30	L30	L + 0° + 170°	

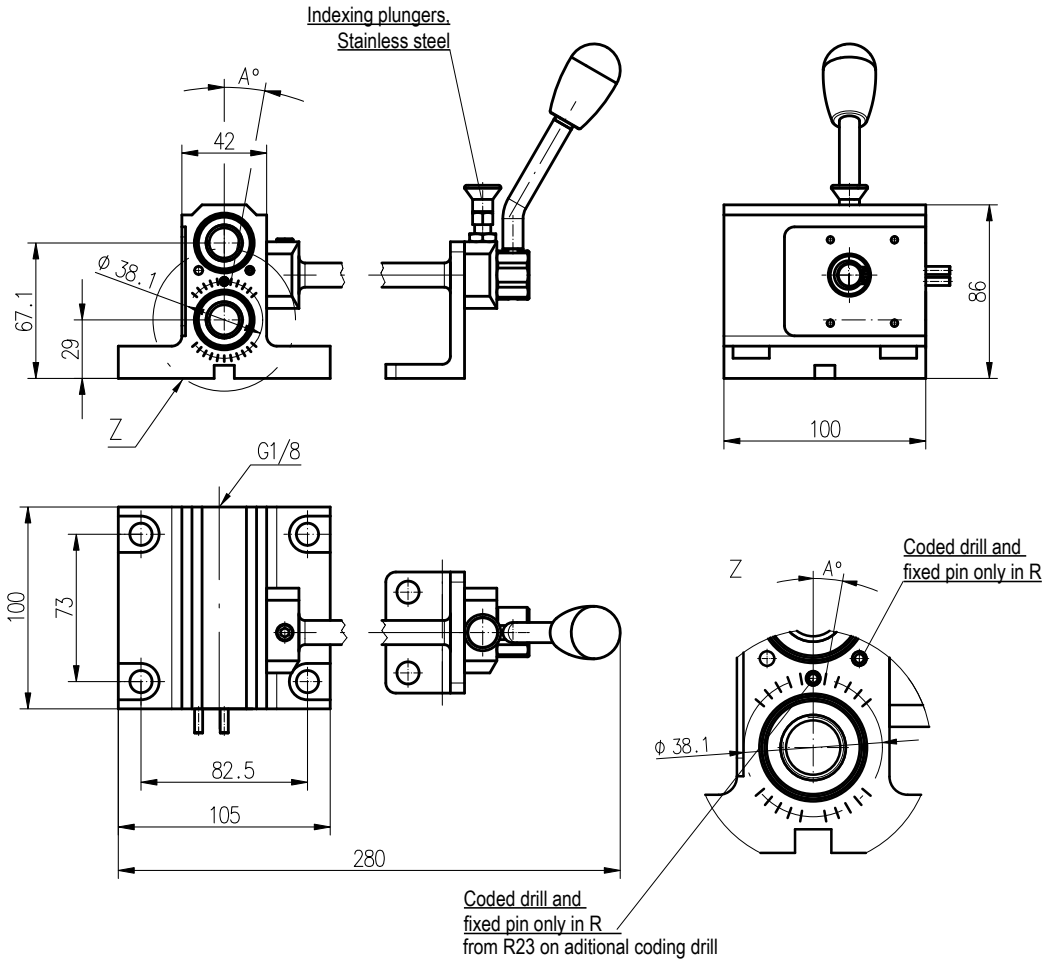
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Coupling right with code right



1.80 kg
Material: Aluminium



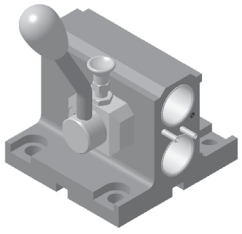
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM2-R-R01	R01	R + 0°	2
ISI-2S-K-NSM2-R-R02	R02	R + 10°	
ISI-2S-K-NSM2-R-R03	R03	R + 20°	
ISI-2S-K-NSM2-R-R04	R04	R + 30°	
ISI-2S-K-NSM2-R-R05	R05	R + 40°	
ISI-2S-K-NSM2-R-R06	R06	R + 50°	
ISI-2S-K-NSM2-R-R07	R07	R + 130°	
ISI-2S-K-NSM2-R-R08	R08	R + 140°	
ISI-2S-K-NSM2-R-R09	R09	R + 150°	
ISI-2S-K-NSM2-R-R10	R10	R + 160°	
ISI-2S-K-NSM2-R-R11	R11	R + 170°	
ISI-2S-K-NSM2-R-R12	R12	R + 180°	
ISI-2S-K-NSM2-R-R13	R13	R +190°	
ISI-2S-K-NSM2-R-R14	R14	R + 200°	
ISI-2S-K-NSM2-R-R15	R15	R + 210°	
ISI-2S-K-NSM2-R-R16	R16	R + 220°	
ISI-2S-K-NSM2-R-R17	R17	R + 230°	
ISI-2S-K-NSM2-R-R18	R18	R + 310°	
ISI-2S-K-NSM2-R-R19	R19	R + 320°	
ISI-2S-K-NSM2-R-R20	R20	R + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM2-R-R21	R21	R + 340°	2
ISI-2S-K-NSM2-R-R22	R22	R + 350°	
ISI-2S-K-NSM2-R-R23	R23	R + 0° + 30°	3
ISI-2S-K-NSM2-R-R24	R24	R + 10° + 40°	
ISI-2S-K-NSM2-R-R25	R25	R + 20° + 50°	
ISI-2S-K-NSM2-R-R26	R26	R + 0° + 130°	
ISI-2S-K-NSM2-R-R27	R27	R + 0° + 140°	
ISI-2S-K-NSM2-R-R28	R28	R + 0° + 150°	
ISI-2S-K-NSM2-R-R29	R29	R + 0° + 160°	
ISI-2S-K-NSM2-R-R30	R30	R + 0° + 170°	

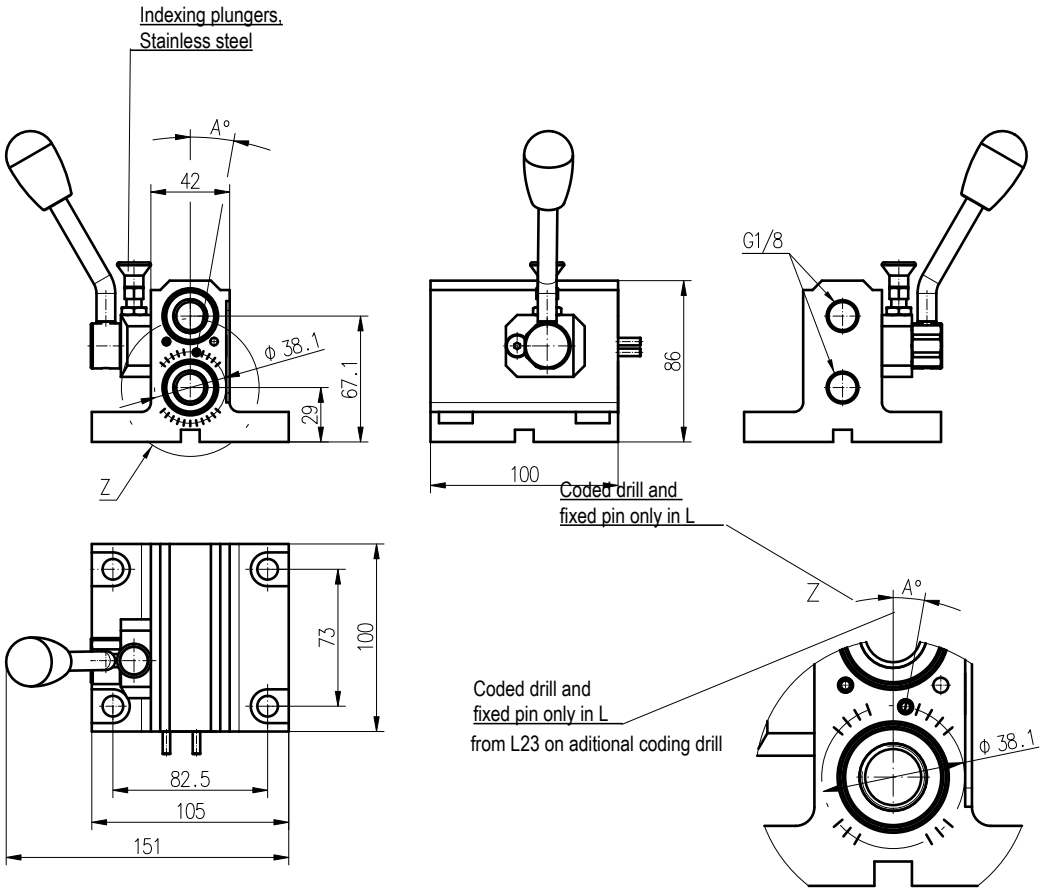
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Coupling, left with Code left



1.286 kg
Material: Aluminium



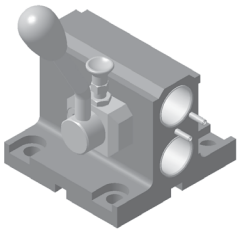
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM3-L-L01	L01	L + 0°	2
ISI-2S-K-NSM3-L-L02	L02	L + 10°	
ISI-2S-K-NSM3-L-L03	L03	L + 20°	
ISI-2S-K-NSM3-L-L04	L04	L + 30°	
ISI-2S-K-NSM3-L-L05	L05	L + 40°	
ISI-2S-K-NSM3-L-L06	L06	L + 50°	
ISI-2S-K-NSM3-L-L07	L07	L + 130°	
ISI-2S-K-NSM3-L-L08	L08	L + 140°	
ISI-2S-K-NSM3-L-L09	L09	L + 150°	
ISI-2S-K-NSM3-L-L10	L10	L + 160°	
ISI-2S-K-NSM3-L-L11	L11	L + 170°	
ISI-2S-K-NSM3-L-L12	L12	L + 180°	
ISI-2S-K-NSM3-L-L13	L13	L +190°	
ISI-2S-K-NSM3-L-L14	L14	L + 200°	
ISI-2S-K-NSM3-L-L15	L15	L + 210°	
ISI-2S-K-NSM3-L-L16	L16	L + 220°	
ISI-2S-K-NSM3-L-L17	L17	L + 230°	
ISI-2S-K-NSM3-L-L18	L18	L + 310°	
ISI-2S-K-NSM3-L-L19	L19	L + 320°	
ISI-2S-K-NSM3-L-L20	L20	L + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM3-L-L21	L21	L + 340°	2
ISI-2S-K-NSM3-L-L22	L22	L + 350°	
ISI-2S-K-NSM3-L-L23	L23	L + 0° + 30°	3
ISI-2S-K-NSM3-L-L24	L24	L + 10° + 40°	
ISI-2S-K-NSM3-L-L25	L25	L + 20° + 50°	
ISI-2S-K-NSM3-L-L26	L26	L + 0° + 130°	
ISI-2S-K-NSM3-L-L27	L27	L + 0° + 140°	
ISI-2S-K-NSM3-L-L28	L28	L + 0° + 150°	
ISI-2S-K-NSM3-L-L29	L29	L + 0° + 160°	
ISI-2S-K-NSM3-L-L30	L30	L + 0° + 170°	

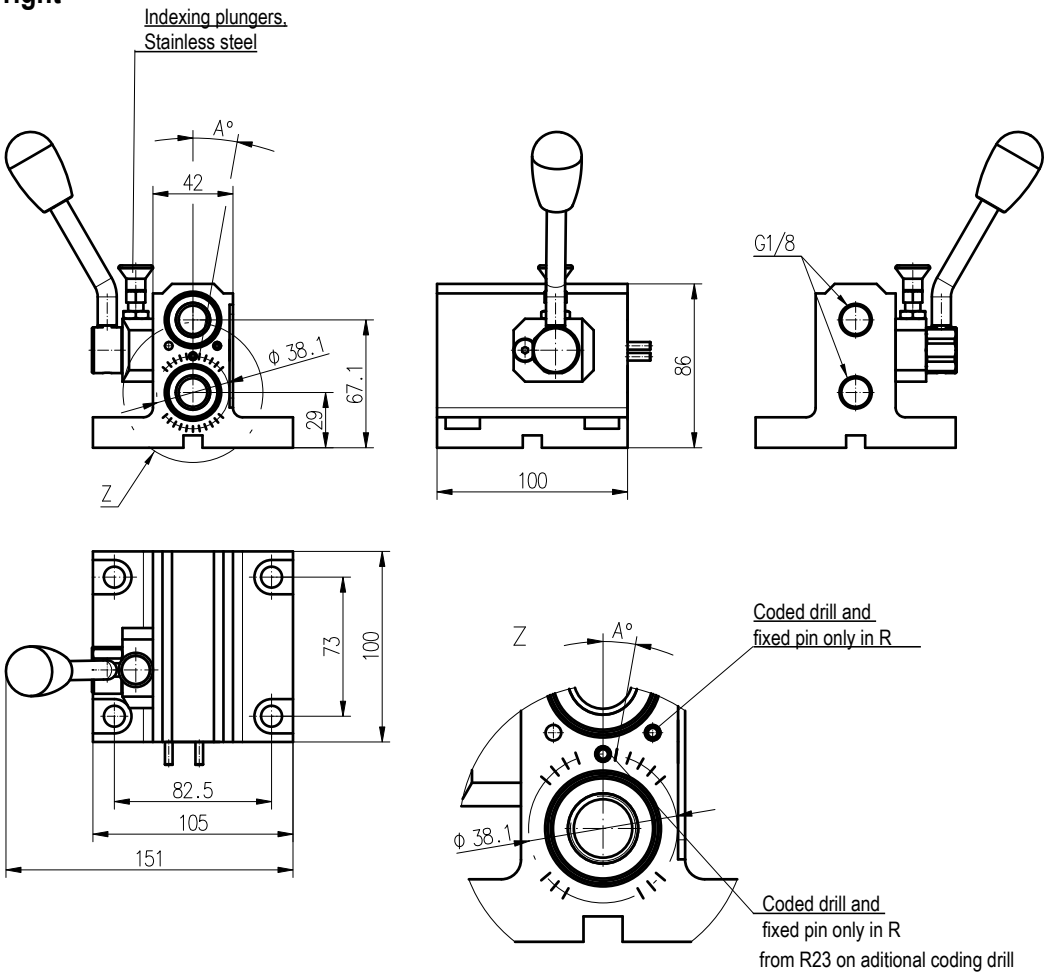
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Coupling, left with Code right



1.286 kg
Material: Aluminium



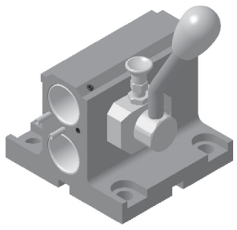
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM3-L-R01	R01	R + 0°	2
ISI-2S-K-NSM3-L-R02	R02	R + 10°	
ISI-2S-K-NSM3-L-R03	R03	R + 20°	
ISI-2S-K-NSM3-L-R04	R04	R + 30°	
ISI-2S-K-NSM3-L-R05	R05	R + 40°	
ISI-2S-K-NSM3-L-R06	R06	R + 50°	
ISI-2S-K-NSM3-L-R07	R07	R + 130°	
ISI-2S-K-NSM3-L-R08	R08	R + 140°	
ISI-2S-K-NSM3-L-R09	R09	R + 150°	
ISI-2S-K-NSM3-L-R10	R10	R + 160°	
ISI-2S-K-NSM3-L-R11	R11	R + 170°	
ISI-2S-K-NSM3-L-R12	R12	R + 180°	
ISI-2S-K-NSM3-L-R13	R13	R +190°	
ISI-2S-K-NSM3-L-R14	R14	R + 200°	
ISI-2S-K-NSM3-L-R15	R15	R + 210°	
ISI-2S-K-NSM3-L-R16	R16	R + 220°	
ISI-2S-K-NSM3-L-R17	R17	R + 230°	
ISI-2S-K-NSM3-L-R18	R18	R + 310°	
ISI-2S-K-NSM3-L-R19	R19	R + 320°	
ISI-2S-K-NSM3-L-R20	R20	R + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM3-L-R21	R21	R + 340°	2
ISI-2S-K-NSM3-L-R22	R22	R + 350°	
ISI-2S-K-NSM3-L-R23	R23	R + 0° + 30°	3
ISI-2S-K-NSM3-L-R24	R24	R + 10° + 40°	
ISI-2S-K-NSM3-L-R25	R25	R + 20° + 50°	
ISI-2S-K-NSM3-L-R26	R26	R + 0° + 130°	
ISI-2S-K-NSM3-L-R27	R27	R + 0° + 140°	
ISI-2S-K-NSM3-L-R28	R28	R + 0° + 150°	
ISI-2S-K-NSM3-L-R29	R29	R + 0° + 160°	
ISI-2S-K-NSM3-L-R30	R30	R + 0° + 170°	

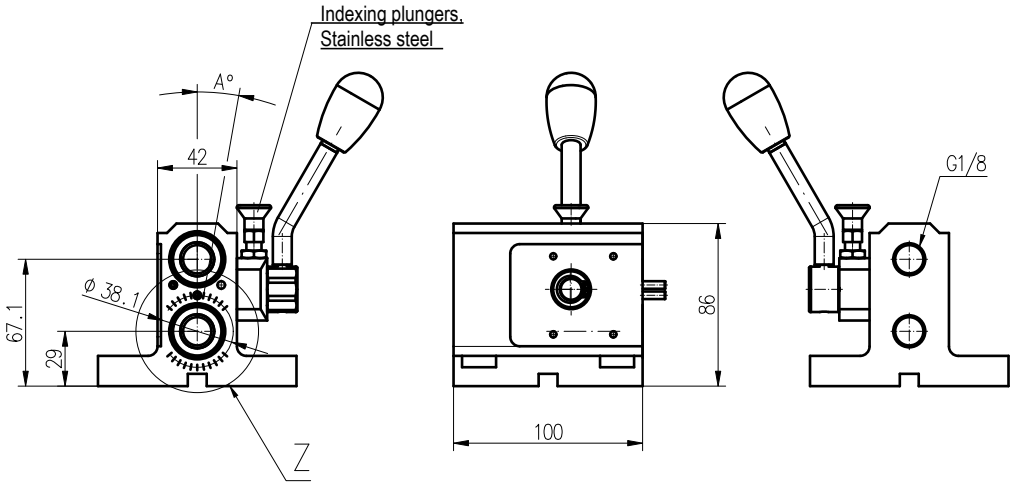
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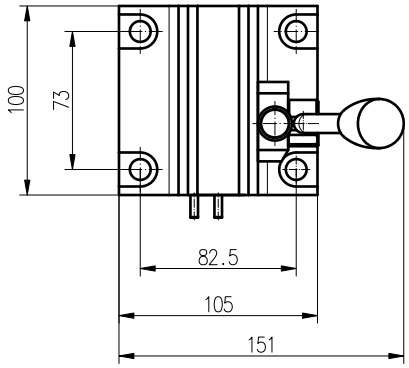
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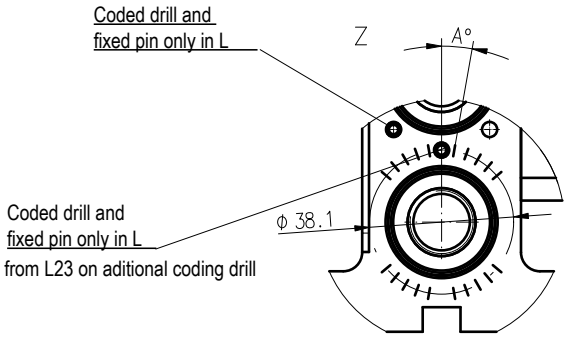
Coupling right with Code left



1.286 kg
Material: Aluminium







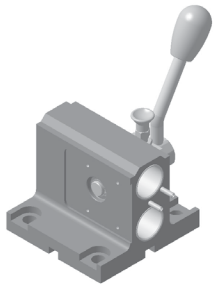
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM3-R-L01	L01	L + 0°	2
ISI-2S-K-NSM3-R-L02	L02	L + 10°	
ISI-2S-K-NSM3-R-L03	L03	L + 20°	
ISI-2S-K-NSM3-R-L04	L04	L + 30°	
ISI-2S-K-NSM3-R-L05	L05	L + 40°	
ISI-2S-K-NSM3-R-L06	L06	L + 50°	
ISI-2S-K-NSM3-R-L07	L07	L + 130°	
ISI-2S-K-NSM3-R-L08	L08	L + 140°	
ISI-2S-K-NSM3-R-L09	L09	L + 150°	
ISI-2S-K-NSM3-R-L10	L10	L + 160°	
ISI-2S-K-NSM3-R-L11	L11	L + 170°	
ISI-2S-K-NSM3-R-L12	L12	L + 180°	
ISI-2S-K-NSM3-R-L13	L13	L +190°	
ISI-2S-K-NSM3-R-L14	L14	L + 200°	
ISI-2S-K-NSM3-R-L15	L15	L + 210°	
ISI-2S-K-NSM3-R-L16	L16	L + 220°	
ISI-2S-K-NSM3-R-L17	L17	L + 230°	
ISI-2S-K-NSM3-R-L18	L18	L + 310°	
ISI-2S-K-NSM3-R-L19	L19	L + 320°	
ISI-2S-K-NSM3-R-L20	L20	L + 330°	

Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM3-R-L21	L21	L + 340°	2
ISI-2S-K-NSM3-R-L22	L22	L + 350°	
ISI-2S-K-NSM3-R-L23	L23	L + 0° + 30°	3
ISI-2S-K-NSM3-R-L24	L24	L + 10° + 40°	
ISI-2S-K-NSM3-R-L25	L25	L + 20° + 50°	
ISI-2S-K-NSM3-R-L26	L26	L + 0° + 130°	
ISI-2S-K-NSM3-R-L27	L27	L + 0° + 140°	
ISI-2S-K-NSM3-R-L28	L28	L + 0° + 150°	
ISI-2S-K-NSM3-R-L29	L29	L + 0° + 160°	
ISI-2S-K-NSM3-R-L30	L30	L + 0° + 170°	

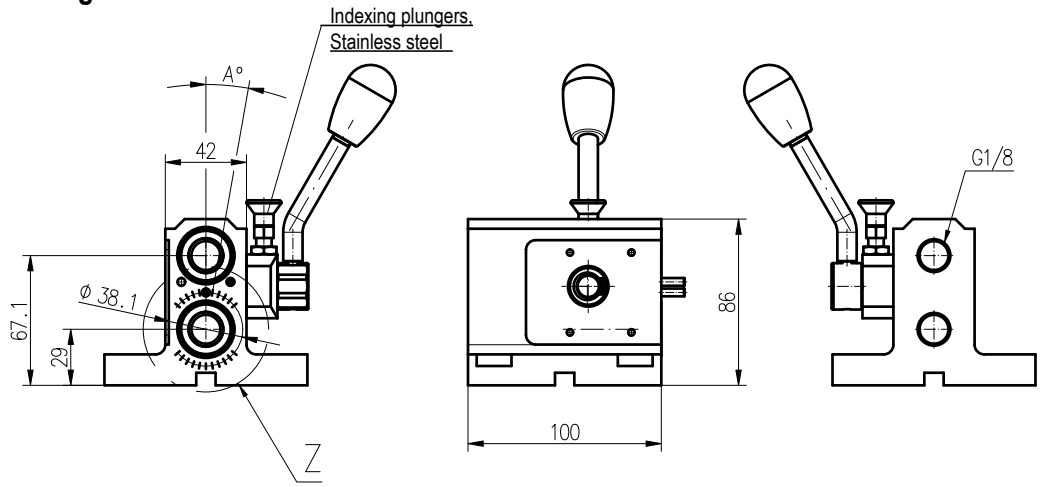
Subject to modification
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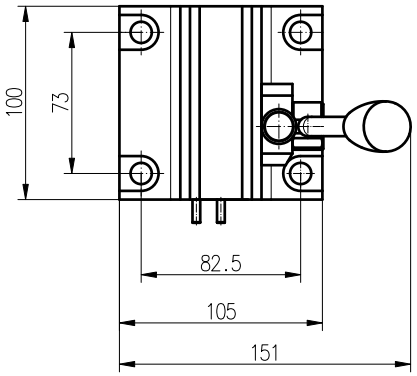
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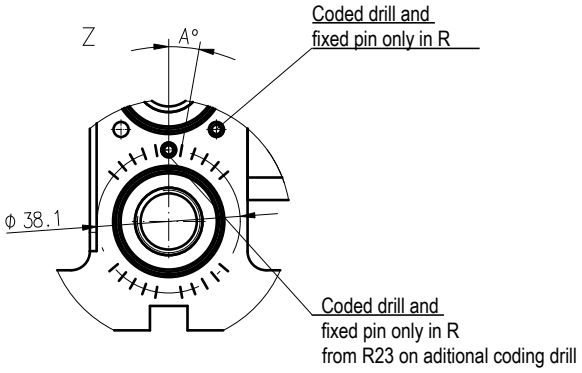
Coupling right with code right



1.286 kg
Material: Aluminium





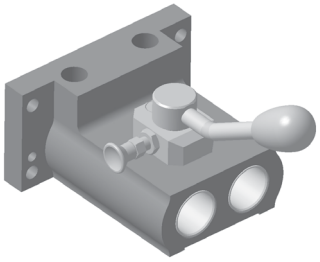


Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM3-R-R01	R01	R + 0°	2
ISI-2S-K-NSM3-R-R02	R02	R + 10°	
ISI-2S-K-NSM3-R-R03	R03	R + 20°	
ISI-2S-K-NSM3-R-R04	R04	R + 30°	
ISI-2S-K-NSM3-R-R05	R05	R + 40°	
ISI-2S-K-NSM3-R-R06	R06	R + 50°	
ISI-2S-K-NSM3-R-R07	R07	R + 130°	
ISI-2S-K-NSM3-R-R08	R08	R + 140°	
ISI-2S-K-NSM3-R-R09	R09	R + 150°	
ISI-2S-K-NSM3-R-R10	R10	R + 160°	
ISI-2S-K-NSM3-R-R11	R11	R + 170°	
ISI-2S-K-NSM3-R-R12	R12	R + 180°	
ISI-2S-K-NSM3-R-R13	R13	R +190°	
ISI-2S-K-NSM3-R-R14	R14	R + 200°	
ISI-2S-K-NSM3-R-R15	R15	R + 210°	
ISI-2S-K-NSM3-R-R16	R16	R + 220°	
ISI-2S-K-NSM3-R-R17	R17	R + 230°	
ISI-2S-K-NSM3-R-R18	R18	R + 310°	
ISI-2S-K-NSM3-R-R19	R19	R + 320°	
ISI-2S-K-NSM3-R-R20	R20	R + 330°	

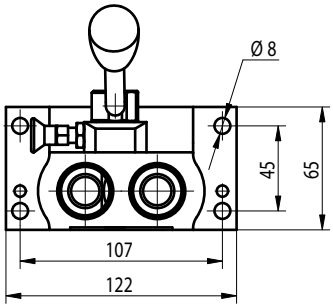
Part no.	Code Number	Pin position + A°	Qyuantity Pins
ISI-2S-K-NSM3-R-R21	R21	R + 340°	2
ISI-2S-K-NSM3-R-R22	R22	R + 350°	
ISI-2S-K-NSM3-R-R23	R23	R + 0° + 30°	3
ISI-2S-K-NSM3-R-R24	R24	R + 10° + 40°	
ISI-2S-K-NSM3-R-R25	R25	R + 20° + 50°	
ISI-2S-K-NSM3-R-R26	R26	R + 0° + 130°	
ISI-2S-K-NSM3-R-R27	R27	R + 0° + 140°	
ISI-2S-K-NSM3-R-R28	R28	R + 0° + 150°	
ISI-2S-K-NSM3-R-R29	R29	R + 0° + 160°	
ISI-2S-K-NSM3-R-R30	R30	R + 0° + 170°	

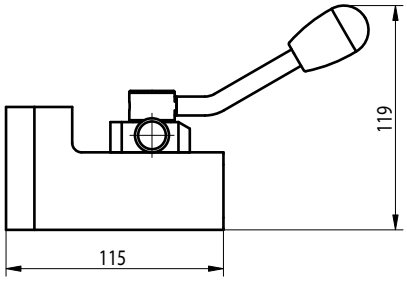
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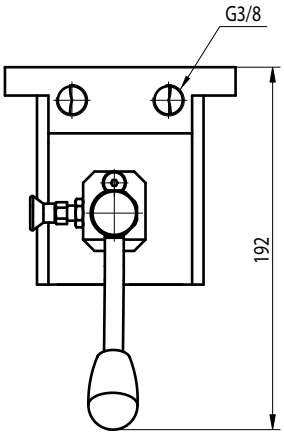
2 Pin Coupling with flange mounting



1.407 kg
Material: Aluminium



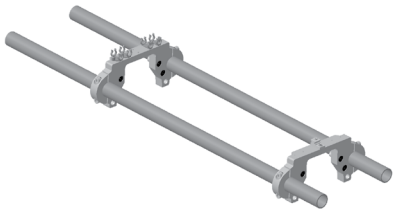


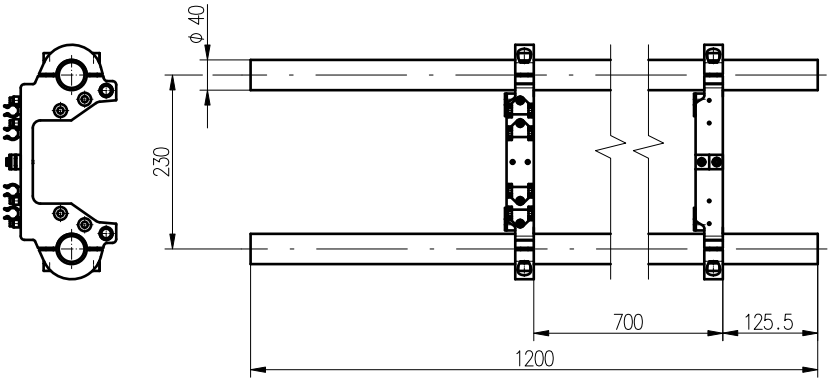


Part no.
ISI-2S-KF1-A2

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Double tooling

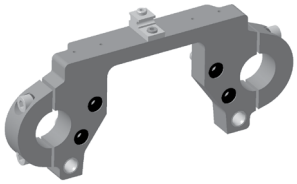


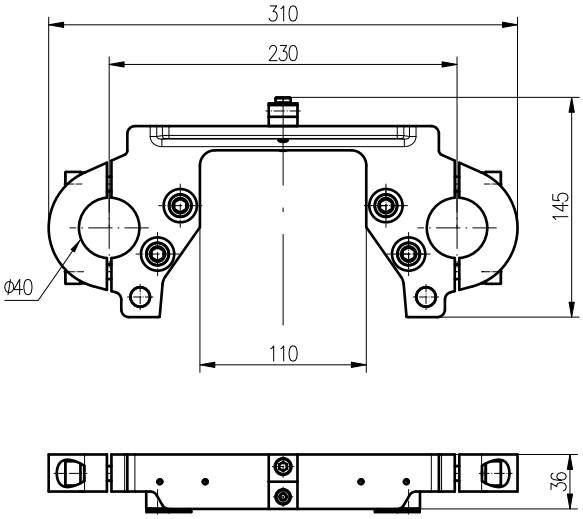


4.953kg
Material: Aluminium

Part no.
FOL-GRS-DT-40-A8-700-1200

Air bracket

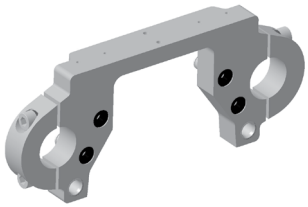


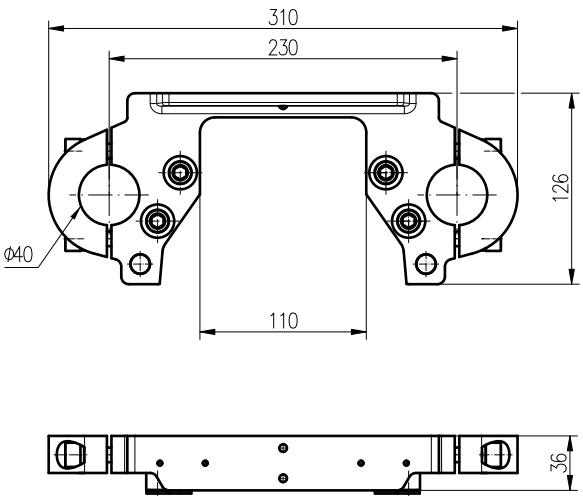


1.359 kg
Material: Aluminium

Part no.
FOL-GRS-40-128-A4-V

Air bracket





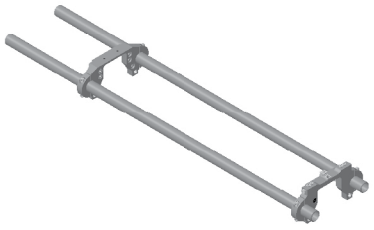
1.302 kg
Material: Aluminium

Part no.
FOL-GRS-40-128-A4

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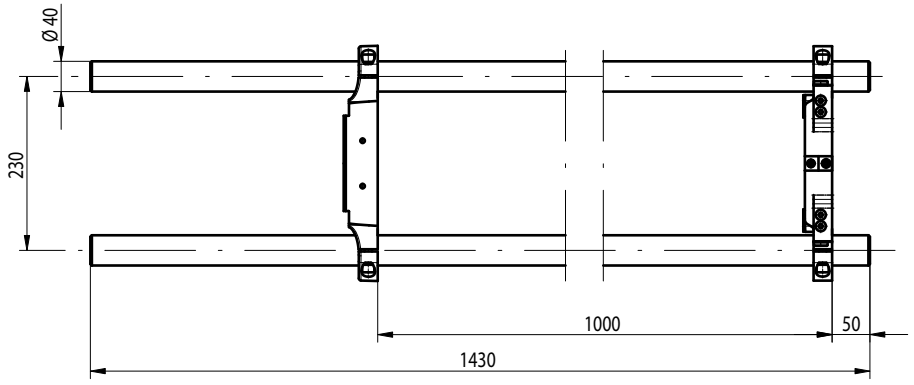
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Double tooling

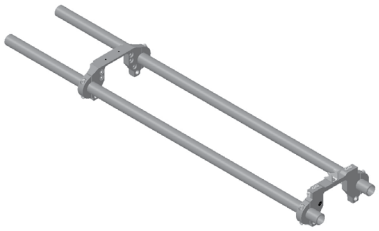


5.718 kg
Material: Aluminium

Part no.
FOL-GRS-DT-40-128-1430

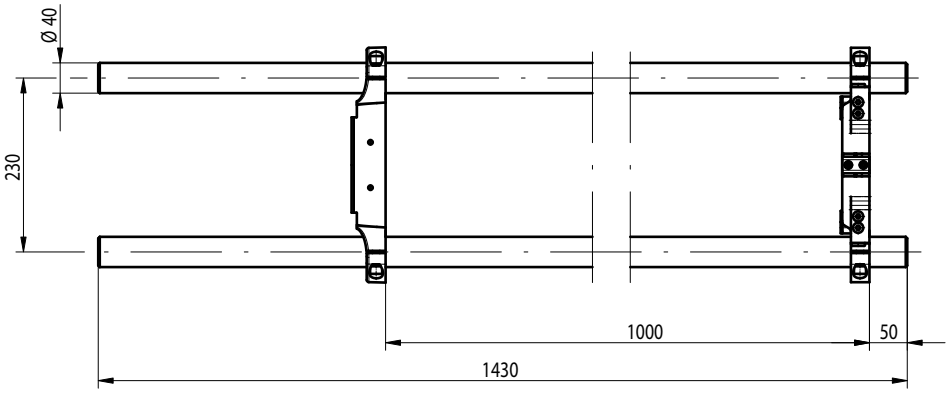


Double tooling

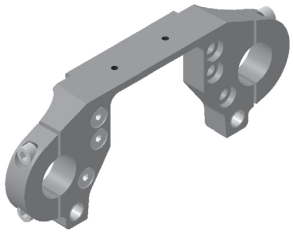


5.718 kg
Material: Aluminium

Part no.
FOL-GRS-DT-40-128-1430-MX

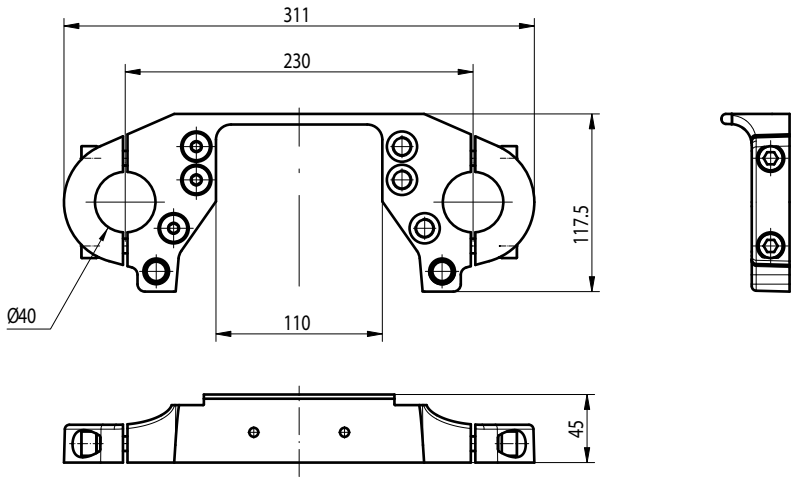


Bracket without air connection



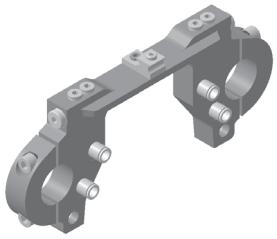
2.31 kg
Material: Aluminium

Part no.
FOL-GRS-40-128

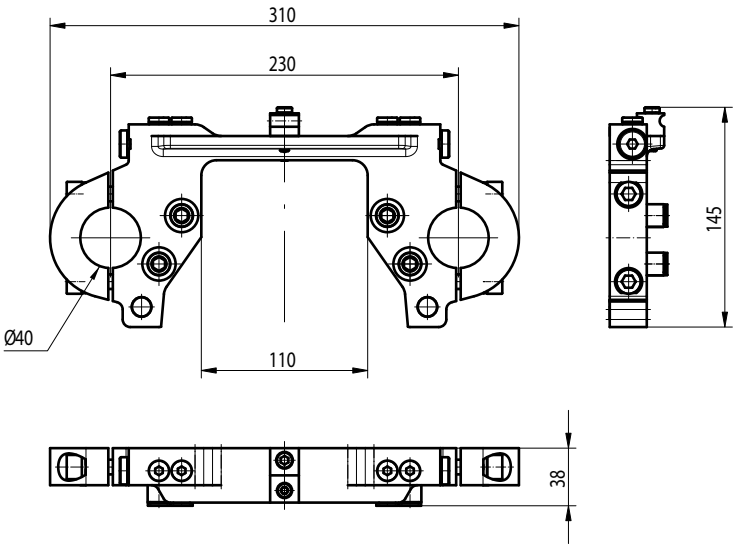


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Air bracket

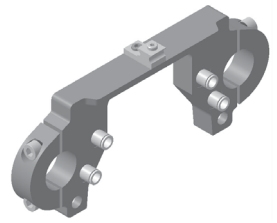


1.4 kg
Material: Aluminium

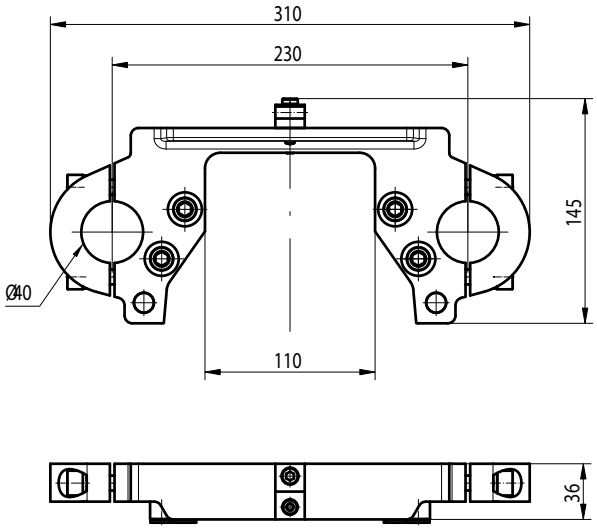


Part no.
FOL-GRS-40-128-A2-V

Air bracket

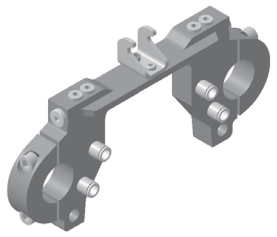


0.674 kg
Material: Aluminium

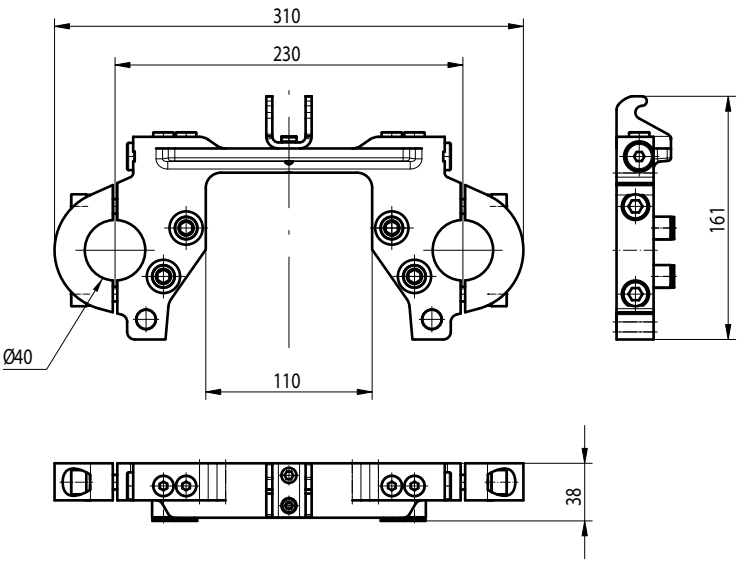


Part no.
FOL-GRS-40-128-A4-V

Air bracket



1.4 kg
Material: Aluminium



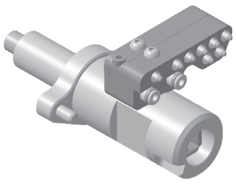
Part no.
FOL-GRS-40-128-A2-V-MX

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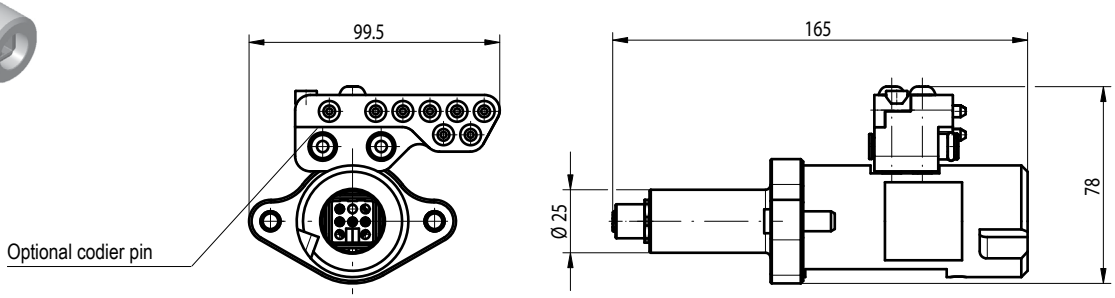
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Quick release disconnect and connection

Bayonet with coding

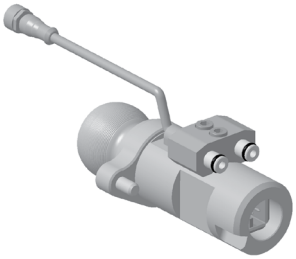


0.222 kg
Material: Aluminium / Steel

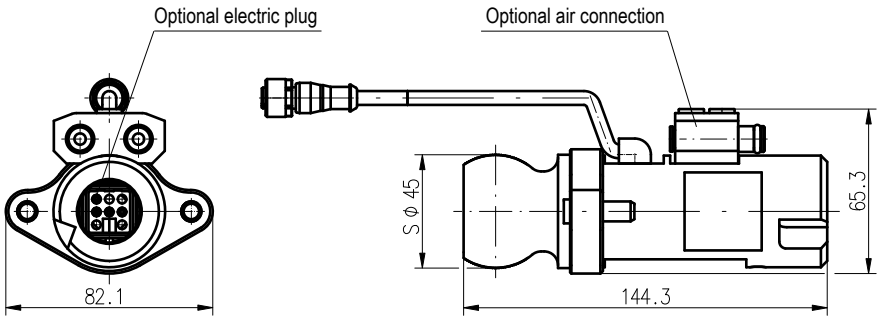


Part no.
CBC-25-A2-EL4-C

Bayonet without coding



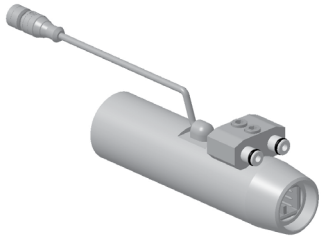
0.541 kg
Material: Aluminium / Steel



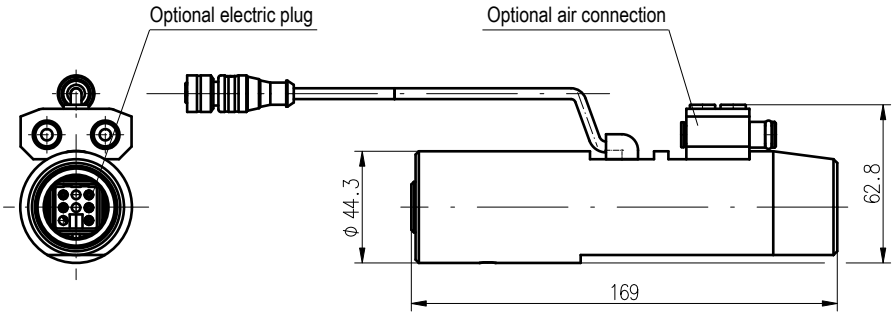
Part no.
CBC-K45-A2-6-EL4

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Bayonet without coding



1.327 kg
Material: Steel

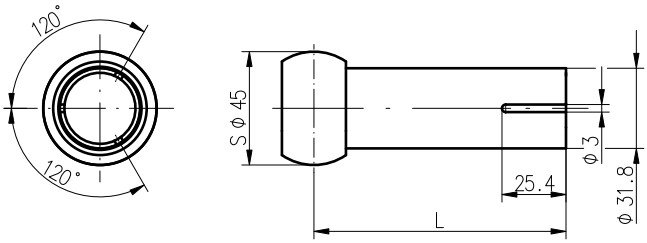


Part no.
CBC-44-A2-6-EL3

Sphere with tube and 3 grooves



Material: Steel

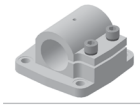
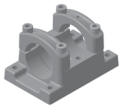


Ordering information	e.g.: CBC-K45-125-3-200
CBC-K45-125-3	-L
	Length
	↓
	100
	200
	300

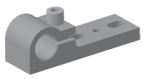
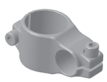
Other lengths upon request

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Clamps & Adapters

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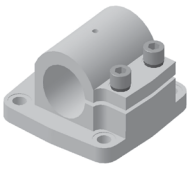
Clamps & Adapters

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	Clamp block for boom extension	213

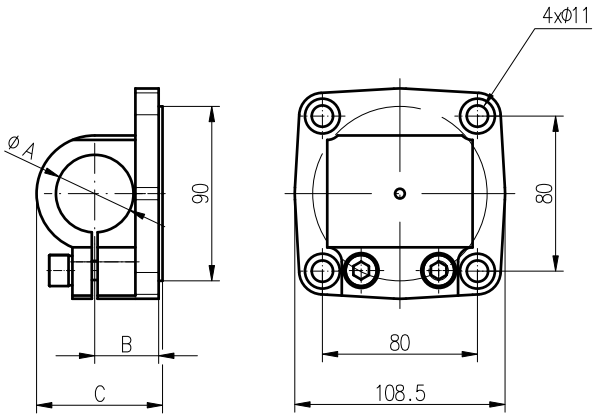
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Clamps & Adapters

Flange mount

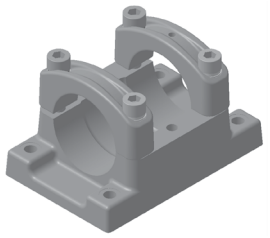


Material: Aluminium

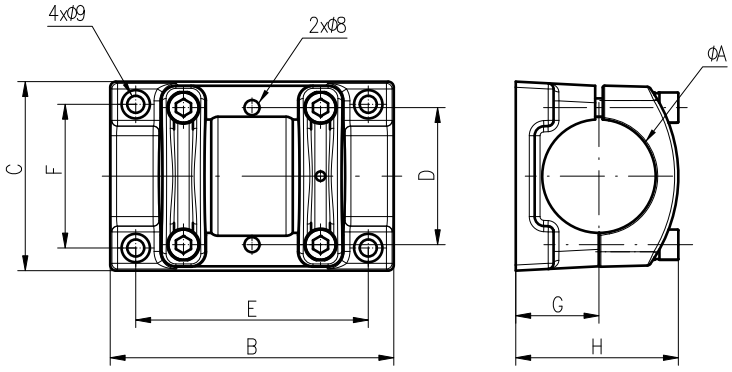


Part no.	Ø A	B	C	▮ (kg)
GFA-40	40	33	65	0.77
GFA-60	60	55	96	1.20

Flange mount, split type

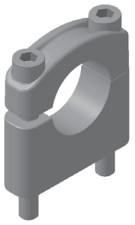


Material: Aluminium

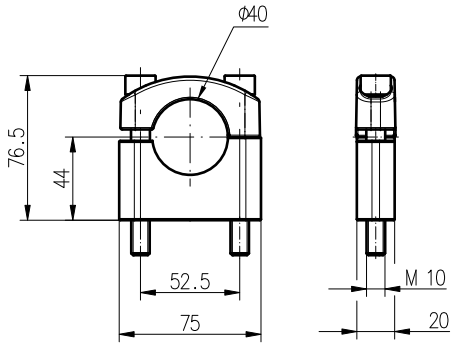


Part no.	Ø A	B	C	D	E	F	G	H	▮ (kg)
GFAR-40-110	40	110	110	90.0	80	80	31	66	0.75
GFAR-60-150	60	150	100	72.5	123	76	44	87	1.09

Flange mount, split type



▮ 0.301 kg
Material: Aluminium

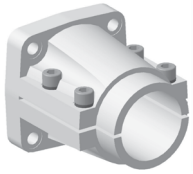


Part no.
GFAR-40-75-20-01

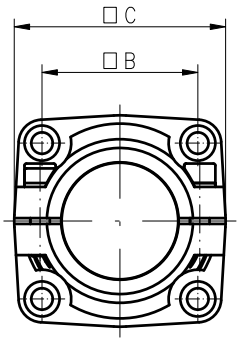
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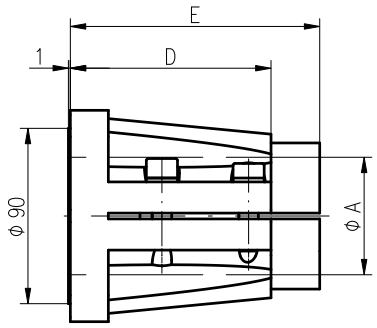
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Flange mount



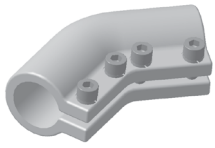
Material: Aluminium



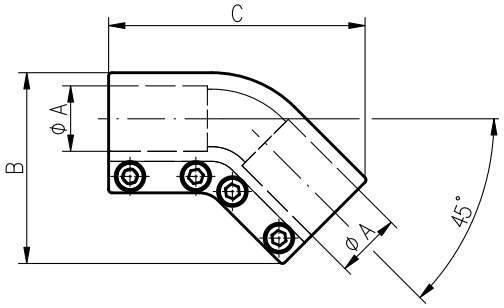


Part no.	Ø A	□ B	□ C	D	E	(kg)
KL-40-60F	40	60	84	91	-	1.20
KL-60-80F	60	80	109	129	129	1.52

Elbow 45°



Material: Aluminium

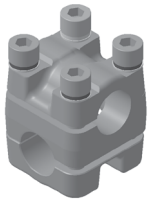


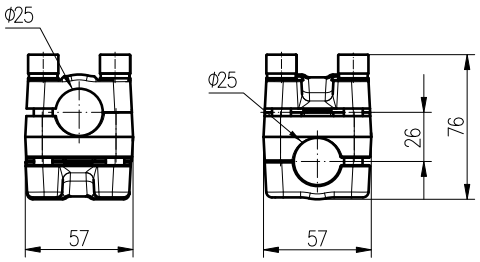
Part no.	Ø A	B	C	(kg)
DC-4040-45	40	116	156	0.73
DC-6060-45	60	165	229	1.73

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Clamp block, split type, round

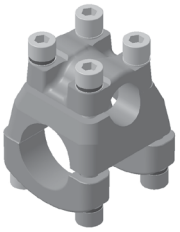


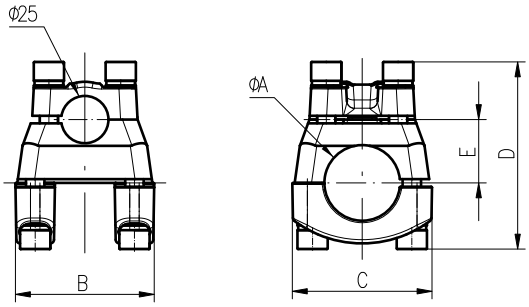


0.42 kg
Material: Aluminium

Part no..
KLR-25-25

Clamp block, split type, round



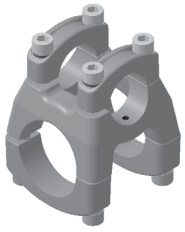


Material: Aluminium

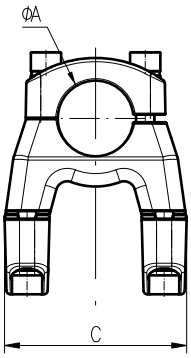
Part no.	Ø A	B	C	D	E	(kg)
KLR-25-40	25	73	74	99	33.5	0.66
KLR-25-60	40	96	96	118	45.5	0.98

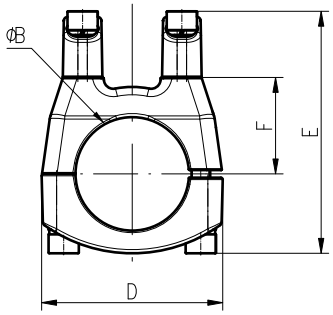
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Clamp block, split type, round



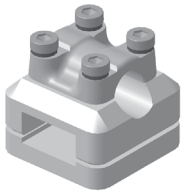
Material: Aluminium



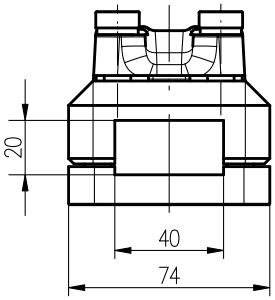


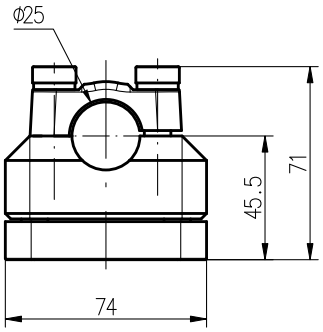
Part no.	Ø A	Ø B	C	D	E	F	(kg)
KLR-40-40	40	40	76	76	112	41	0,79
KLR-40-60	40	60	96	96	129	51	1,03
KLR-60-60	60	60	100	100	145	61	1,37

Clamp block, split type



Material: Aluminium



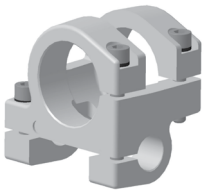


Part no.	(kg)
KLR-25-V2040	0.50

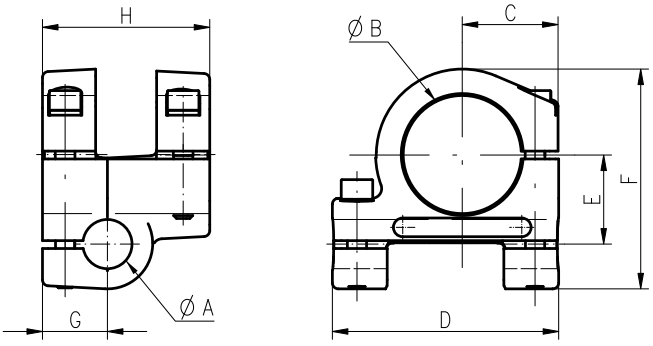
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Clamp block, open type



Material: Aluminium

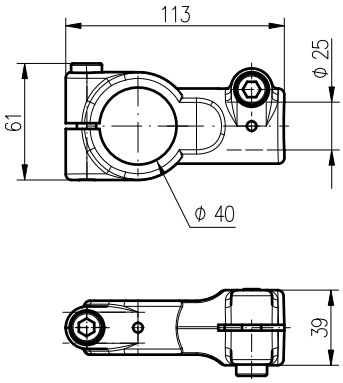


Part no.	Ø A	Ø B	C	D	E	F	G	H	(kg)
KLO-25-25	25	25	30	70	28	79.5	33	66	0.44
KLO-25-40	25	40	49	100	35	89	33	85	0.73
KLO-25-60	25	60	49	115	45.5	112	33	85	0.92
KLO-40-40	40	40	49	100	45.5	107	42.5	85	0.44
KLO-40-50	40	50	52	110	48	115	42	85	0.70
KLO-40-60	40	60	49	115	52.7	124	42.5	85	1.04
KLO-60-60	60	60	53	119	65	152	53	112	1.60

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Clamp collar, T-version



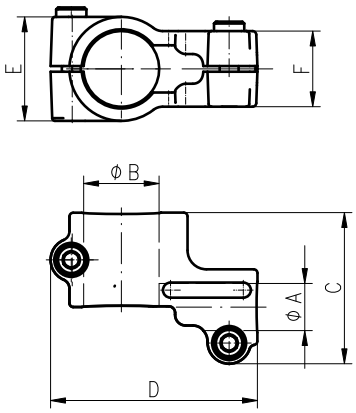


0.24 kg
Material: Aluminium

Part no.
TK-25-40-S

Clamp block for boom extension





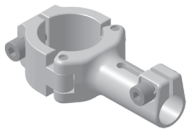
Material: Aluminium

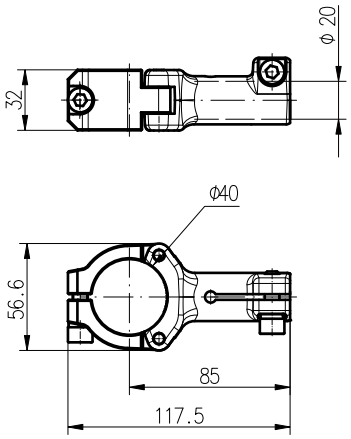
Part no.	Ø A	Ø B	C	D	E	F	(kg)
TK-25-40-O	25	40	80.0	109.5	55	50	0.38
TK-25-300-O	25	76.2	80.0	150.5	94	55	0.68
TK-40-300-O	40	76.2	88.5	169.5	94	55	0.69

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Clamp collar, T-version

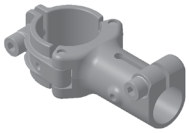


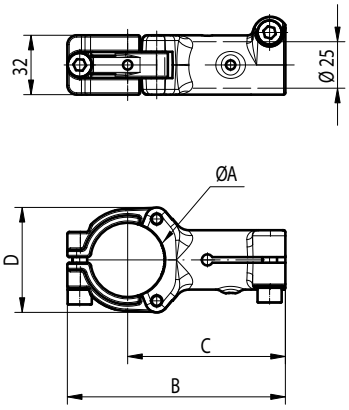


0.213 kg
Material: Aluminium

Part no.
TKA-20-2Z40

Clamp collar, T-version

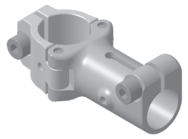


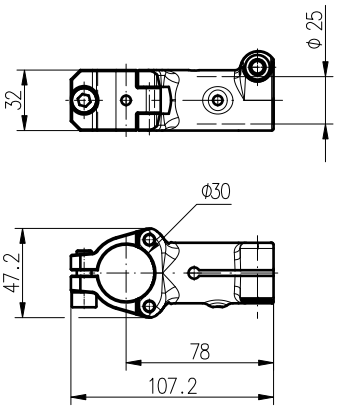


Material: Aluminium

Part no.	Ø A	B	Ø C	D	(kg)
TKA-25-2Z25	25	100.5	75.5	41.4	0.175
TKA-25-2Z40	40	117.5	85.0	57.0	0.215

Clamp collar, T-version



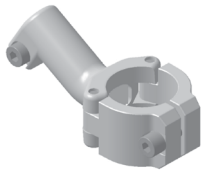


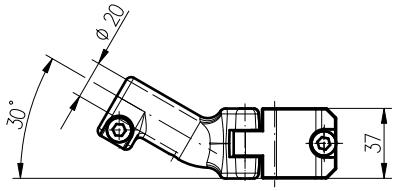
0.179 kg
Material: Aluminium

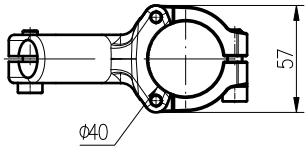
Part no.
TKA-25-2Z30

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Clamp collar, T-version, left



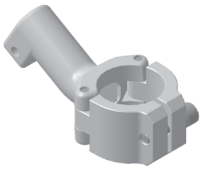


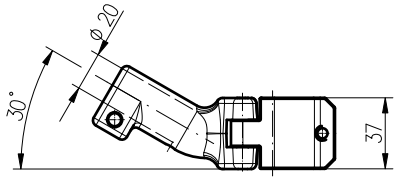


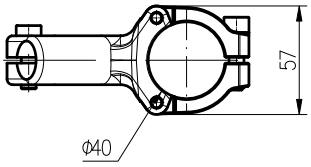
0.243 kg
Material: Aluminium

Part no.
TKA-20-2Z40-W30-L

Clamp collar, T-version, right







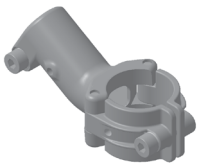
0.243 kg
Material: Aluminium

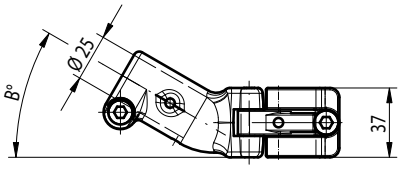
Part no.
TKA-20-2Z40-W30-R

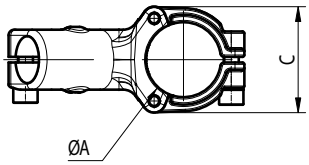
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Clamp collar, T-version, left



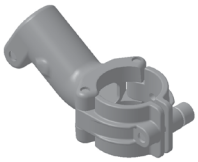


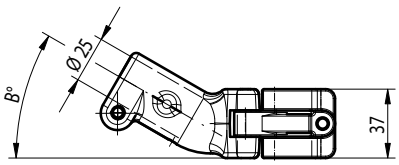


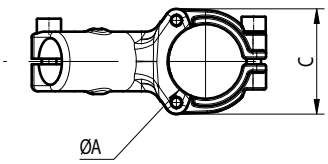
Material: Aluminium

Part no.	ØA	B°	C	(kg)
TKA-25-2Z40-W15-L	40	15°	57.0	0.240
TKA-25-2Z25-W30-L	25	30°	41.4	0.202
TKA-25-2Z40-W30-L	40	30°	57.0	0.241
TKA-25-2Z25-W45-L	25	45°	41.4	0.209
TKA-25-2Z40-W45-L	40	45°	57.0	0.252

Clamp collar, T-version, right





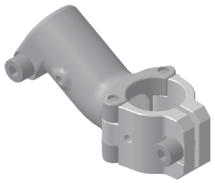


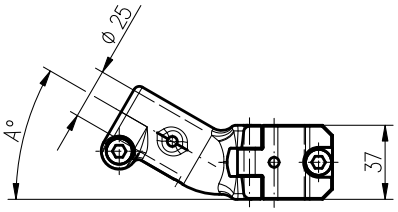
Material: Aluminium

Part no.	ØA	B°	C	(kg)
TKA-25-2Z40-W15-R	40	15°	57.0	0.240
TKA-25-2Z25-W30-R	25	30°	41.4	0.202
TKA-25-2Z40-W30-R	40	30°	57.0	0.241
TKA-25-2Z25-W45-R	25	45°	41.4	0.209
TKA-25-2Z40-W45-R	40	45°	57.0	0.252

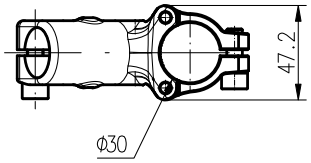
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Clamp collar, T-version, left



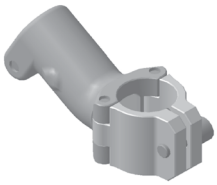


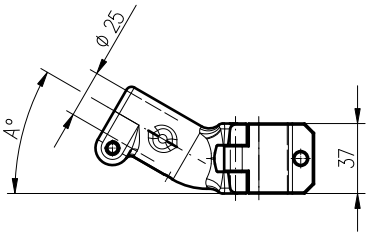
Material: Aluminium



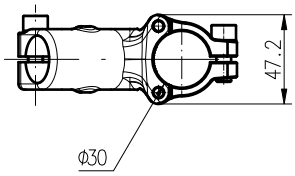
Part no.	A°	(kg)
TKA-25-2Z30-W30-L	30	0.201
TKA-25-2Z30-W45-L	45	0.212

Clamp collar, T-version, right





Material: Aluminium



Part no.	A°	(kg)
TKA-25-2Z30-W30-L	30	0.201
TKA-25-2Z30-W45-L	45	0.212

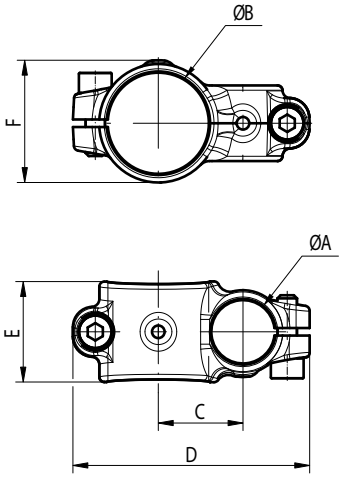
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Cross clamp

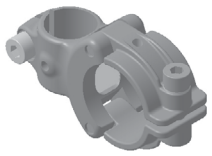


Material: Aluminium

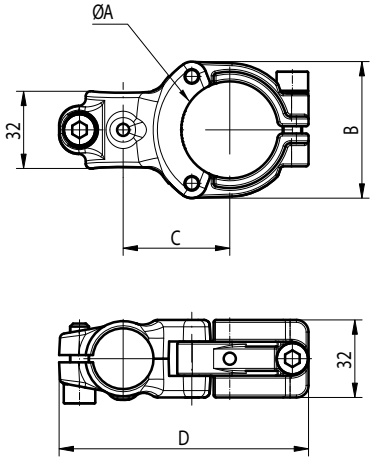


Part no.	Ø A	Ø B	C	D	E	F	(kg)
KKA-19-25	19	25	23.1	70	30	32.5	0.079
KKA-20-20	20	20	21.1	69	25	28.4	0.075
KKA-20-30	20	30	26.1	79	35	38.4	0.095
KKA-25-25	25	25	27.5	80	34	35	0.109
KKA-25-40	25	40	33.6	94	40	48.5	0.120
KKA-30-30	30	30	31.1	89	38.5	39.4	0.113
KKA-40-40	40	40	41.1	109	44.8	48.5	0.166

Cross clamp



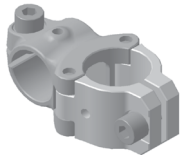
Material: Aluminium



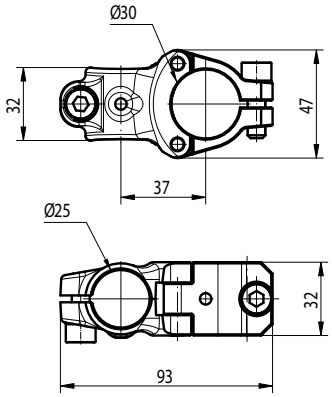
Part no.	ØA	B	C	D	(kg)
KKA-25-2Z25	25	41	33.5	85	0.145
KKA-25-2Z40	40	56	44.0	103	0.186

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Cross clamp



0.15 kg
Mat.: Aluminium

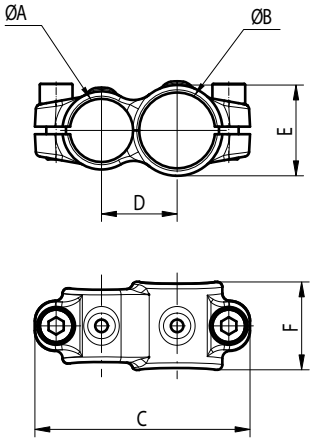


Part no.
KKA-25-2Z30

Parallelclamp



Material: Aluminium



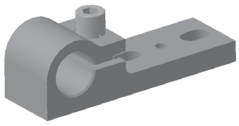
Part no.	Ø A	Ø B	C	D	E	F	(kg)
PKA-20-20	20	20	70.3	22.5	31.5	24.8	0.076
PKA-20-25	20	25	78.3	28.0	34.0	30.0	0.087
PKA-25-25	25	25	81.2	28.4	34.0	30.0	0.092
PKA-25-30	25	30	85.3	30.0	37.5	34.8	0.098
PKA-30-30	30	30	90.0	32.0	38.5	35.0	0.111

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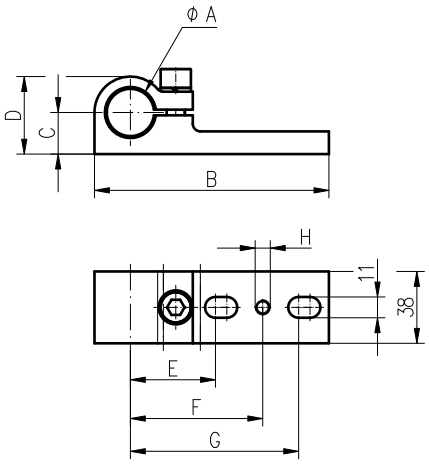
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Clamps & Adapters

Base clamp



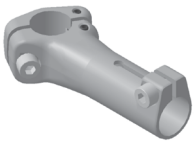
Material: Aluminium



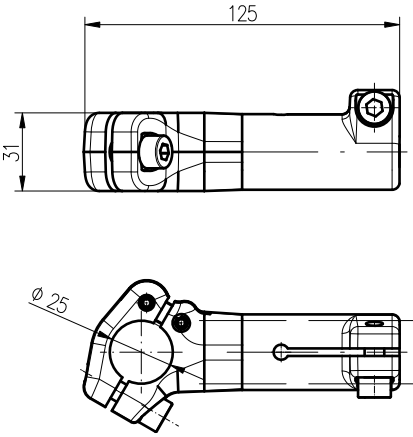
Part no.	Ø A	B	C	D	E	F	G	H	(kg)
BK-00-25	25	124	22	41	45	-	89	-	0.24
BK-00-25-M8	25	124	22	41	45	70	89	M8	0.23
BK-00-25-M10	25	124	22	41	45	70	89	M10	0.23
BK-00-40	40	138	29	56	46.5	-	96.5	-	0.29

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T-clamp collar

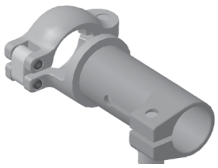


Material: Steel

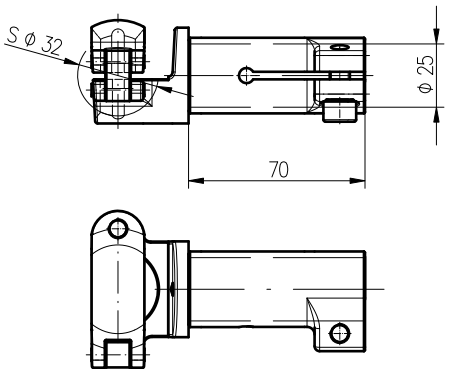


Part no.	(kg)
TKS-25-Z25-70	0.36

T-clamp collar



Material: Steel

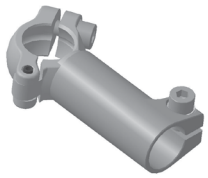


Part no.	(kg)
TKS-00-25-K32-70	0.40

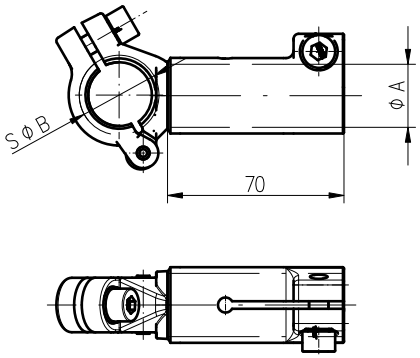
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T-clamp collar

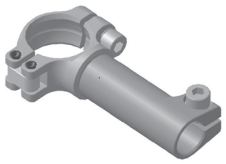


Material: Steel

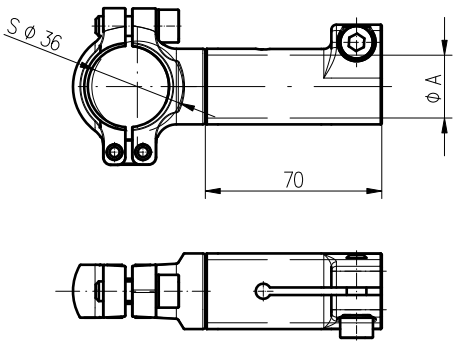


Part no.	Ø A	SØB	(kg)
TKS-20-K28-70	20	28.5	0.33
TKS-20-K32-70	20	32.0	0.40
TKS-25-K28-70	25	28.5	0.38
TKS-25-K32-70	25	32.0	0.42
TKS-30-K28-70	30	28.5	0.39
TKS-30-K32-70	30	32.0	0.30

T-clamp collar



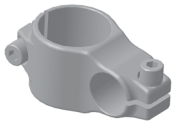
Material: Steel

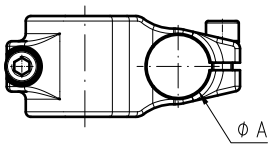


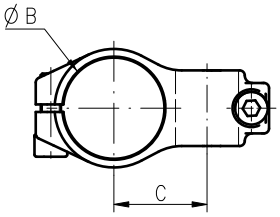
Part no.	Ø A	(kg)
TKS-20-K36-70	20	0.28
TKS-25-K36-70	25	0.38
TKS-30-K36-70	30	0.39

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Cross clamp



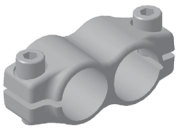


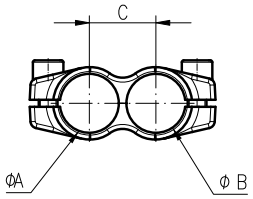


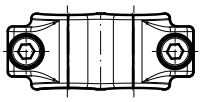
Material: Steel

Part no.	Ø A	Ø B	C	(kg)
KKS-16-16	16	16	18	0.06
KKS-20-20	20	20	22.5	0.14
KKS-20-25	20	25	25.5	0.18
KKS-20-30	20	30	28	0.20
KKS-20-40	20	40	37	0.28
KKS-25-25	25	25	27.5	0.20
KKS-25-30	25	30	29.7	0.22
KKS-25-40	25	40	37	0.26
KKS-25-50	25	50	38.5	0.40
KKS-25-60	25	60	44	0.50
KKS-30-30	30	30	32	0.28
KKS-30-40	30	40	36	1.00
KKS-30-60	30	60	48	2.95
KKS-40-40	40	40	43	0.41
KKS-40-50	40	50	47.5	0.40

Parallel clamp







Material: Steel

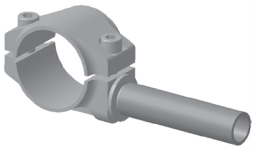
Part no.	Ø A	Ø B	C	(kg)
PKS-20-20	20	20	22.5	0.14
PKS-20-30	20	30	28.0	0.16
PKS-25-25	25	25	28.35	0.20
PKS-30-30	30	30	32.0	0.21
PKS-30-40	30	40	37.0	0.44

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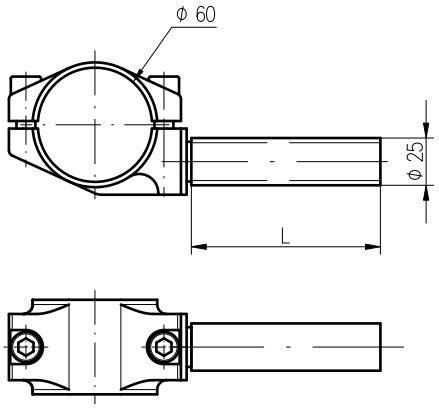
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Clamps & Adapters

Clamp block for boom extension



Material: Steel

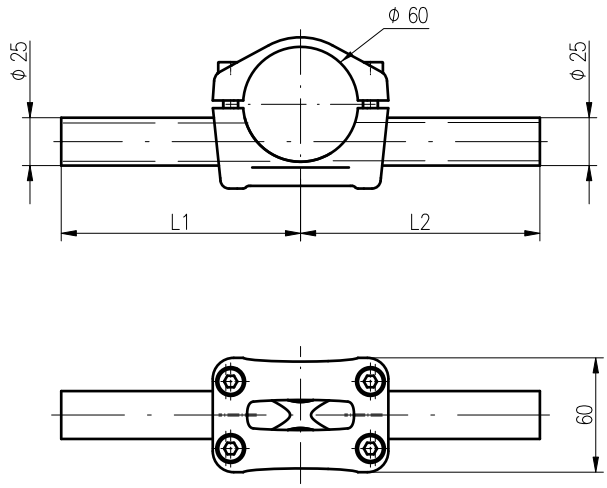


Ordering information	e.g.: SLS-Z60-25-200
SLS-Z60-25	-L
	↓
	300
	500

Clamp block for boom extension



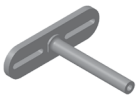
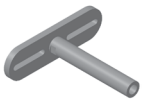
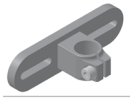
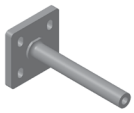
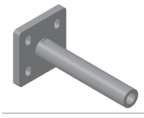
Material: Steel



Ordering information	e.g.: SLS-Z60-25-250-250	
SLS-Z60-25	-L1	-L2
	↓	↓
	250	250
	300	300
	500	500
	750	750
	800	800

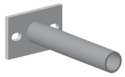
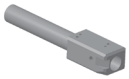
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Tooling tube & press adapter

Picture	Designation	Page
	Aluminium tubing	217
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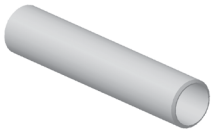
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Subject to modification
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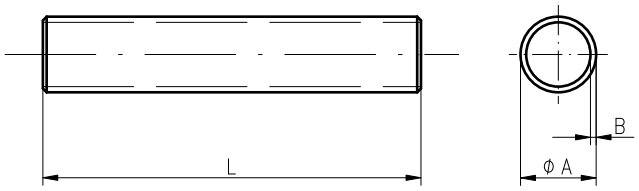
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Tooling tube & press adapter

Aluminium tubing



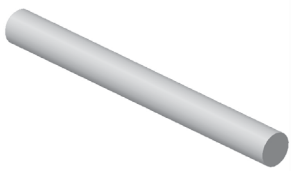
Material: Aluminium

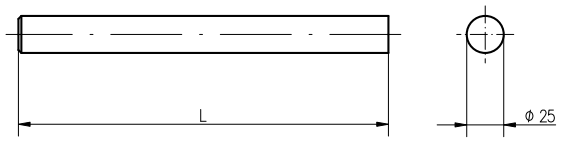


Ordering information		e.g.: PAT-40x3-1000
PAT	-A x B	-L
	Diameter x wall thickness	Length
	↓	↓
	16 x 3	150 - 6000 (25 mm Increments)
	20 x 2.5	
	25 x 3	
	25 x 5	
	40 x 3	
	40 x 6	
	60 x 5	
	60 x 6	
	60 x 8	

Part no.	kg/m
PAT-16x3	0.349
PAT-20x2.5	0.478
PAT-25x3	0.562
PAT-25x5	0.895
PAT-40x3	1.143
PAT-40x6	1.826
PAT-60x5	2.461
PAT-60x6	2.899
PAT-60x8	3.723

Aluminium bar





1.389 kg/m
Material: Aluminium

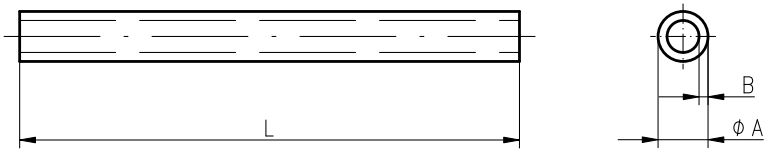
Ordering information	e.g.: PAB-25-1000
PAB-25	-L
	Length
	↓
	150 - 3000 (25 mm Increments)

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Carbon fiber tube



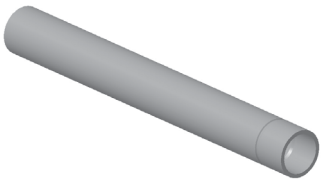
Material: Carbon fibre



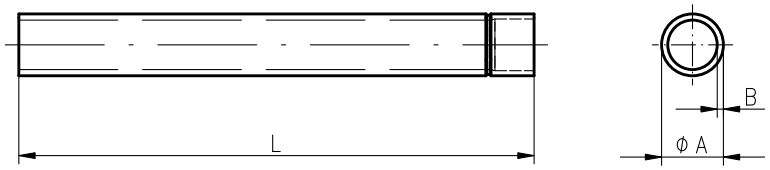
Ordering information		e.g.: PCT-40x5-1000
PCT	-A x B	-L
	Diameter x wall thickness	Length
	↓	↓
	20 x1,5	150 - 6000 (50 mm incrments)
	25 x 2	
	25 x 4,5	
	25 x 5	
	40 x 2	
	40 x 5	
	60 x 5	

Part no.	kg/m
PCT-20 x1.5	0.16
PCT-25 x 2	0.26
PCT-25 x 4.5	0.52
PCT-25 x 5	0.57
PCT-40 x 2	0.43
PCT-40 x 5	0.99
PCT-60 x 5	1.55

Aluminium tube for GSWE



Material: Aluminium



Ordering information		e.g.: GSWE-PAT-60x5-1000
GSWE-PAT	-A x B	-L
	Diameter x wall thickness	Length
	↓	↓
	60 x 5	150 - 6000 (100 mm Increments)
	60 x 6	
	60 x 8	

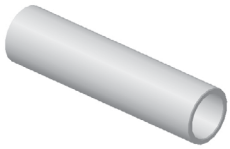
Part no.	kg/m
GSWE-PAT-60x5	2.461
GSWE-PAT-60x6	2.899
GSWE-PAT-60x8	3.723

Subject to modification
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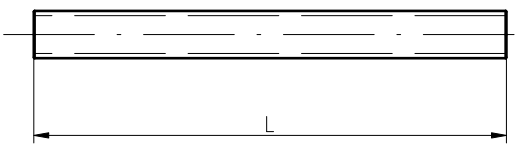
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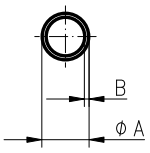
Tooling tube & press adapter

Steel tube



Material: Steel

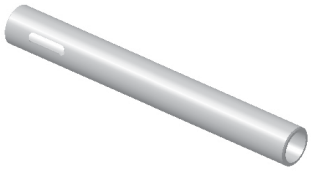




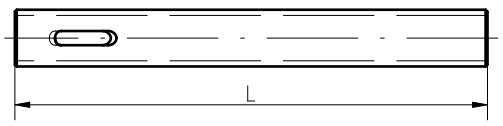
Ordering information	e.g.: PST-25x2.5-1000	
PST	-A x B	-L
	Diameter x wall thickness	Length
	↓	↓
	16 x 2.5	150 - 6000 (25 mm Increments)
	20 x 1.5	
	20 x 2.5	
	25 x 1.5	
	25 x 2.5	
	30 x 2.5	
	40 x 2.5	
	60 x 3.0	

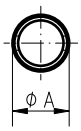
Part no.	kg/m
PST-16x2.5	0.83
PST-20x1.5	0.68
PST-20x2.5	1.08
PST-25x1.5	0.87
PST-25x2.5	1.39
PST-30x2.5	1.69
PST-40x2.5	2.30
PST-60x3.0	4.20

Boom with air supply



Material: Aluminium



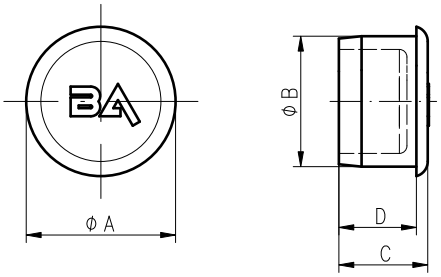


Ordering information	e.g.: BT1-40-7S-1000	
BT1	-A	-L
	Diameter	Length
	↓	↓
	40-7S	150 - 3000 (150 mm Increments)
	60-9S	

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Plastic cover



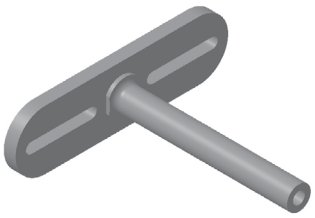


Part no.	Ø A	Ø B	C	D	(kg)
KAB-16x3	16	9.5	13.5	12.0	0.002
KAB-25x5	25	14.5	15.0	13.0	0.003
KAB-40x3	40	34.5	23.5	20.5	0.011
KAB-40x6	40	27.5	23.5	20.5	0.009
KAB-60x5	60	49.5	23.0	20.0	0.020
KAB-60x6	60	47.5	23.0	20.0	0.019

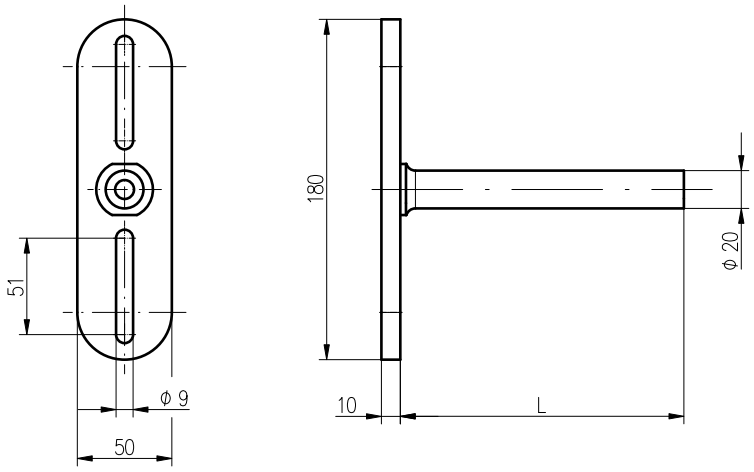
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Tooling tube & press adapter

Finger plate adapter



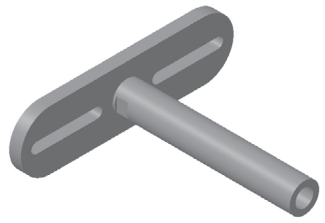
Material: Aluminium



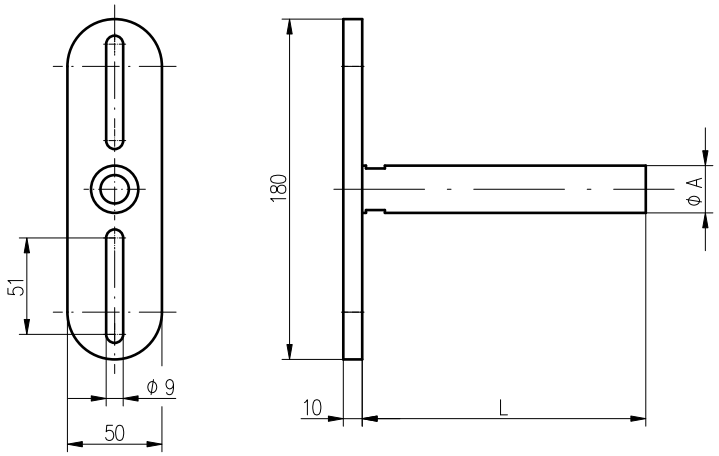
Ordering information	e.g.: ITSA-00-20-150
ITSA-00-20	-L
	Length
	↓
	50 - 250 (50 mm Increments)

Other lengths upon request

Finger plate adapter



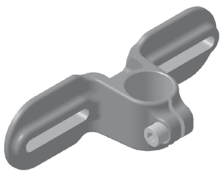
Material: Aluminium



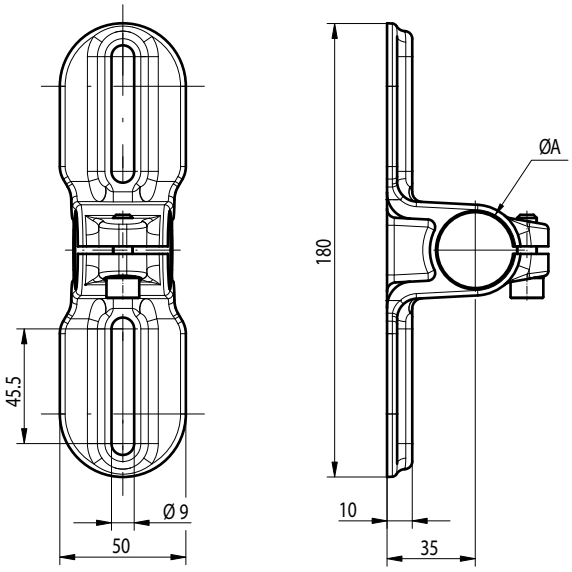
Ordering information		e.g.: ITSA-00-25-150
ITSA-00	-A	-L
	Diameter	Length
	↓	↓
	25	50 - 250 (50 mm Increments)
	30	Other lengths upon request

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Transfer press adapter

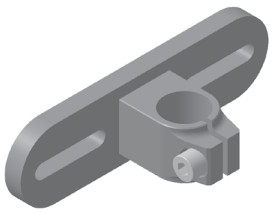


Material: Aluminium

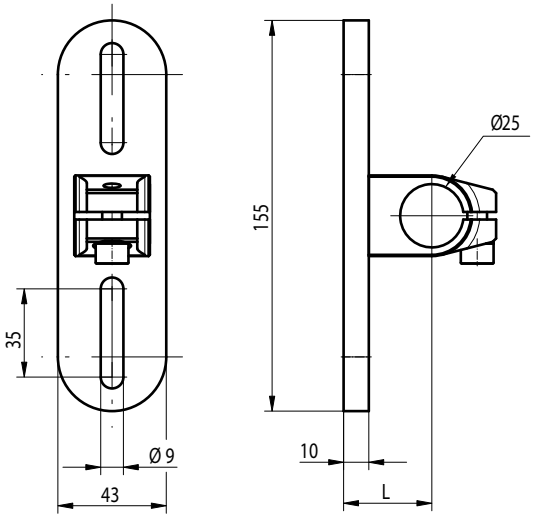


Part no.	Ø A	(kg)
ITSA-90-20	20	0.201
ITSA-90-30	30	0.209

Transfer press adapter



Material: Aluminium



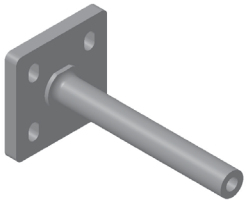
Part no	L	(kg)
ITSA-90-25	35	0.235
ITSA-90-25-65	65	0.327

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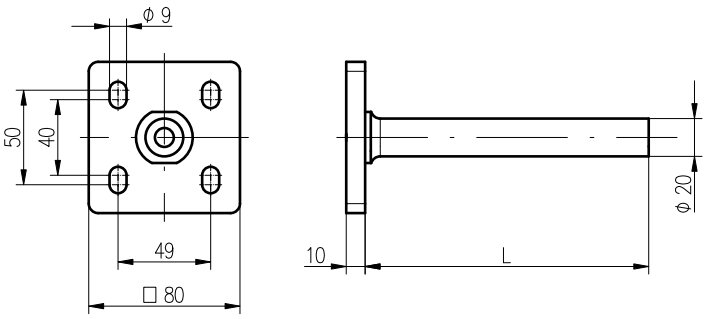
Subject to modification
Edition **01 / 2023 - 2024 Standard**

Tooling tube & press adapter

Finger plate adapter



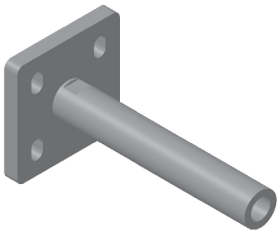
Material: Aluminium



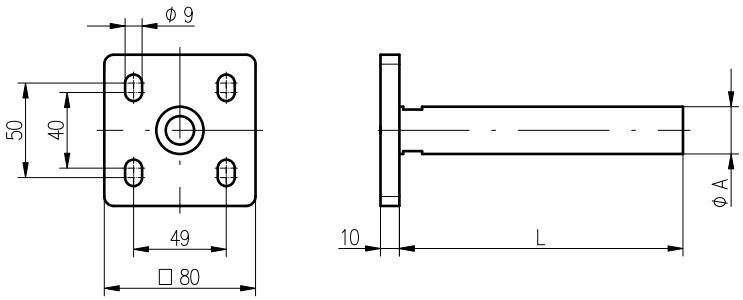
Ordering information	e.g.: STA-00-20-150
STA-00-20	-L
	Length
	↓
	50 - 250 (50 mm increments)

Other lengths upon request

Finger plate adapter



Material: Aluminium



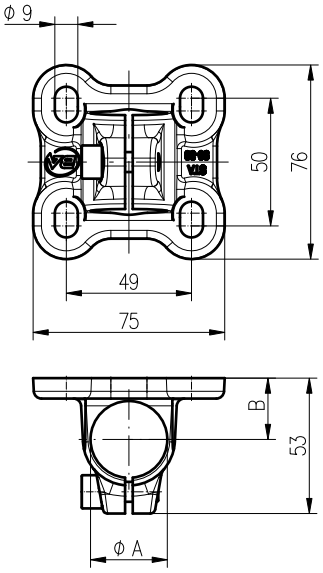
Ordering information		e.g.: STA-00-25-150
STA-00	-A	-L
	Diameter	Length
	↓	↓
	25	50 - 250 (50 mm Increments)
	30	Other lengths upon request

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Transfer press adapter

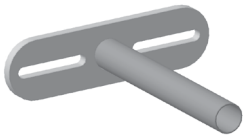


Material: Aluminium

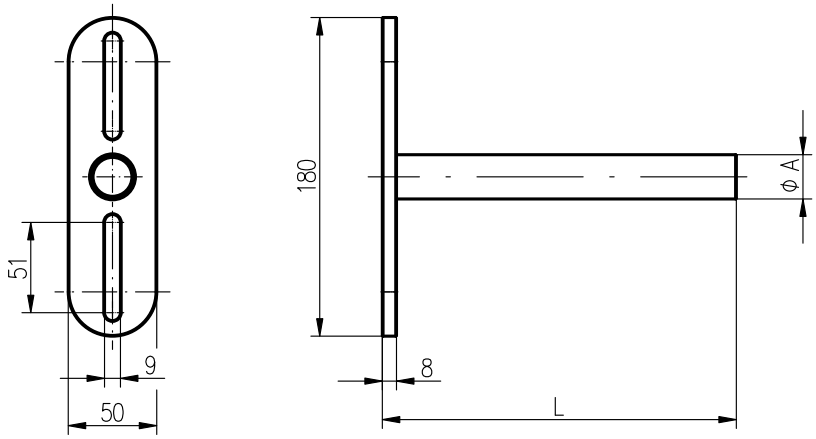


Part no.	Ø A	B	(kg)
STA-90-20	20	19.0	0.143
STA-90-25	25	21.5	0.151
STA-90-30	30	24.0	0.158

Transfer press adapter



Material: Steel



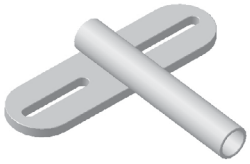
Ordering information			e.g.: ITS-25-00-150
ITS-	-A	-00	-L
	Diameter		Length
	↓		↓
	20		100 - 500 (50 mm Increments)
	25		
	30		

Subject to modification
Edition 01 / 2023 - 2024 Standard

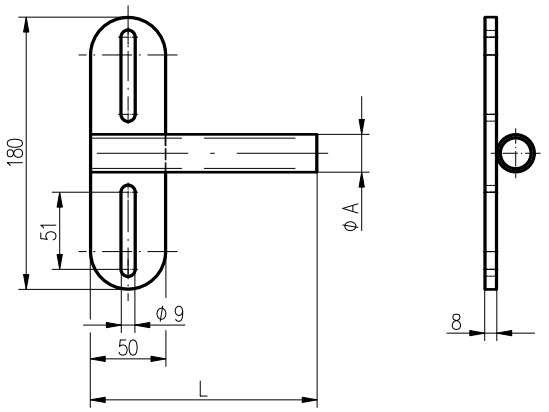
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Tooling tube & press adapter

Transfer press adapter

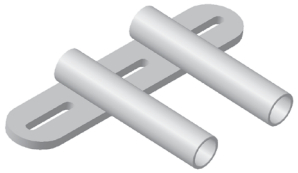


Material: Steel

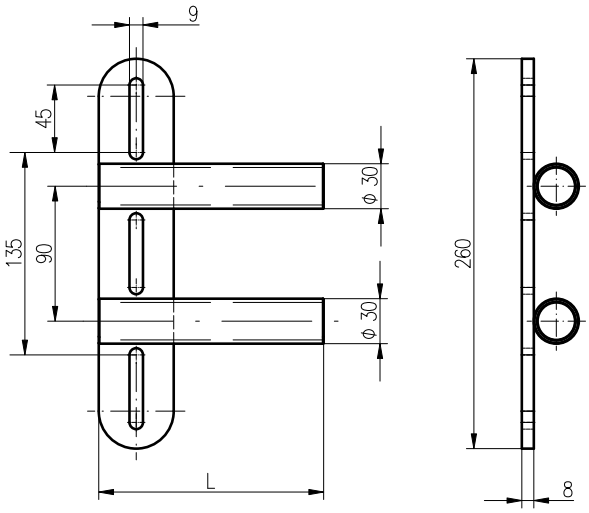


Ordering information			e.g.: ITS-25-90-150
ITS-	-A	-90	-L
	Diameter		Length
	↓		↓
	20		100 - 400 (50 mm Increments)
	25		Other lengths upon request
	30		

Transfer press adapter



Material: Steel

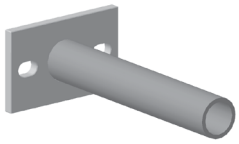


Ordering information		e.g.: ITS-90-30-30-150
ITS-90-30-30	-L	
	Length	
	↓	
	100 - 300 (50 mm Increments)	
	Other lengths upon request	

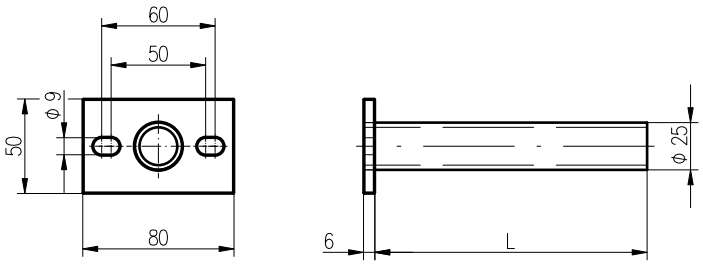
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Finger plate adapters



Material: Steel



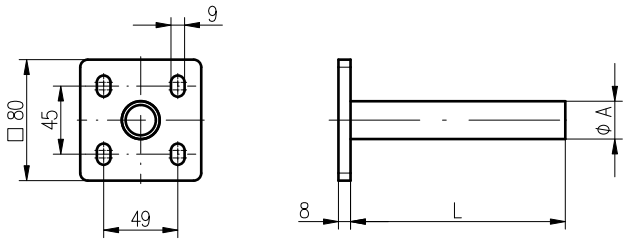
Ordering information	e.g.: STS-S-00-25-200
STS-S-00-25	-L
	Length
	↓
	100 - 500 (50 mm Increments)

Other lengths upon request

Transfer press adapter



Material: Steel



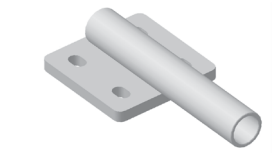
Ordering information			e.g.: STS-00-25-150-GD
STS-00	-A	-L	-GD
	Diameter	Length	
	↓	↓	
	16	100 - 400 (50 mm Increments)	
	20		
	25		
	30		

Subject to modification
Edition 01 / 2023 - 2024 Standard

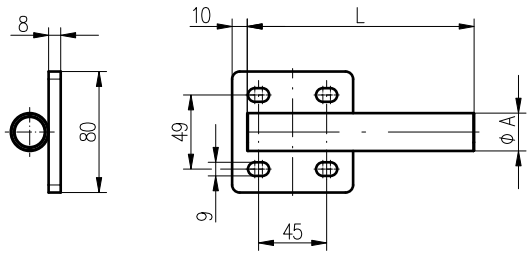
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Tooling tube & press adapter

Transfer press adapter

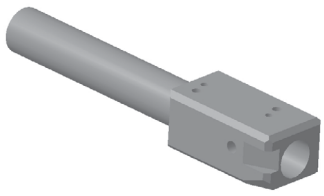


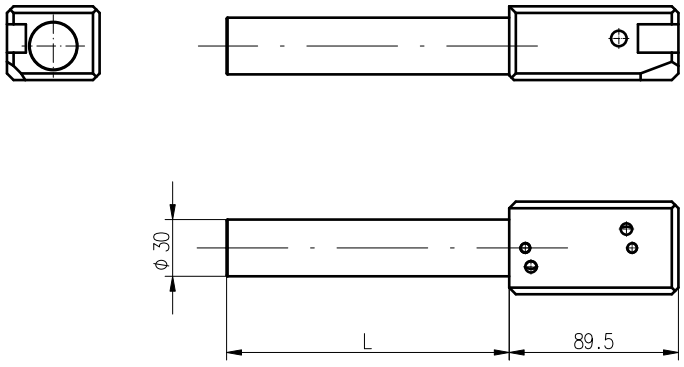
Material: Steel



Ordering information		e.g.: STS-90-25-150-GD	
STS-90	-A	-L	-GD
	Diameter	Length	
	↓	↓	
	16	100 - 400 (50 mm Increments)	
	20		
	25		
	30		

GT press adapter



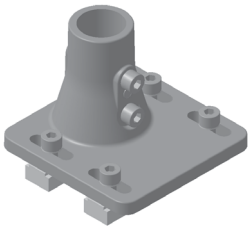


Part no.	L	(kg)	Material
ITA-30-39-90-100	100	1.09	Steel
ITA-30-39-90-150	150	1.18	
ITA-30-39-90-200	200	1.26	
ITA-30-39-90-150-HC	150	0.74	Aluminium

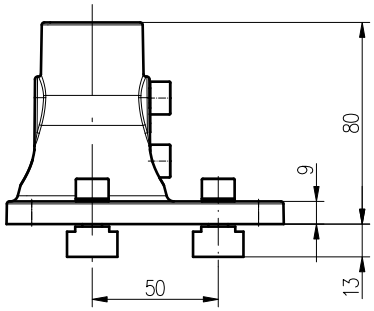
HC = hard-coated

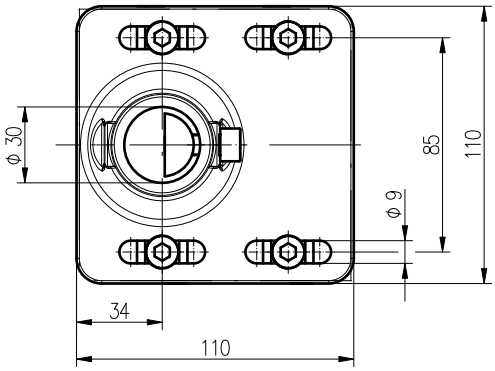
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Transfer press adapter for Gillet rail



0.758 kg
Material: Aluminium



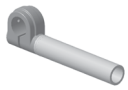
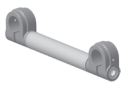
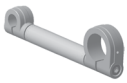


Part no.
ITA-G3080-30

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Swivel & extension arms

Picture	Designation	Page
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	Single end extension, 90°, with split clip, Bolt mount	240
	Single end extension, 90°, with split clip, Bolt mount	240

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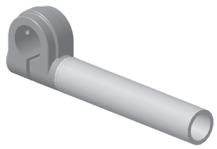
Picture	Designation	Page
	Connections for swivel unit	241
	Connections for swivel unit	241

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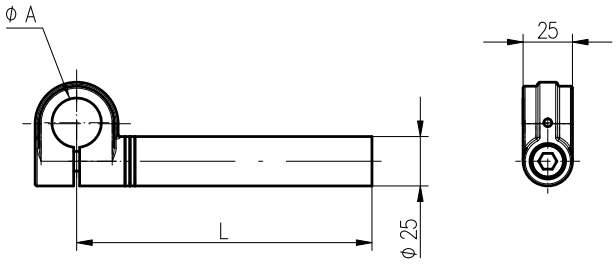
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Swivel & extension arms

Extension with end clamp



Material: Aluminium



Part no.	Ø A
ES25-19-L	19
ES25-25-L	25
ES25-40-L	40
ES25-60-L	60
ES25-19-M8-L	19
ES25-25-M8-L	25

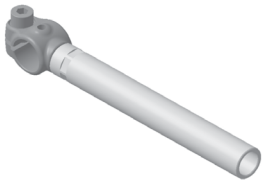
Ordering information e.g.: ES25-25-200 / ES25-25-M8-200

ES25	-A		-L
ES25	-A	- M8	-L

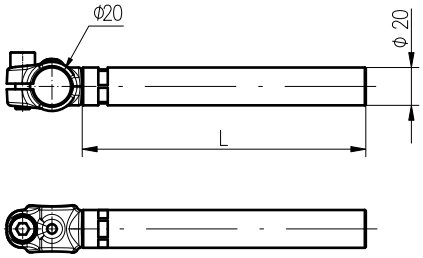
Diameter	Length
↓	↓
19	200
25	400
40	600
60	Other lengths upon request

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Extension with end clamp



Material: Aluminium



Part no.
ESA-90-20-20-L

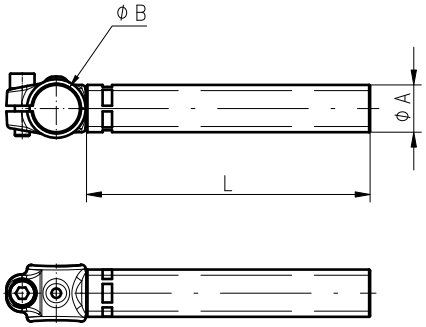
Ordering information	e.g.: ESA-90-20-20-200
ESA-90-20-20	-L
	Lenght
	↓
	200
	400
	600

Other lengths upon request

Extension with end clamp



Material: Aluminium



Part no.	Ø A	Ø B
ESA-90-25-25-L	25	25
ESA-90-30-30-L	30	30

Ordering information			e.g.: ESA-90-25-25-200
ESA-90	-A	-B	-L
	Diameter	Diameter	Length
	↓	↓	↓
	25	25	200
	30	30	400
			600

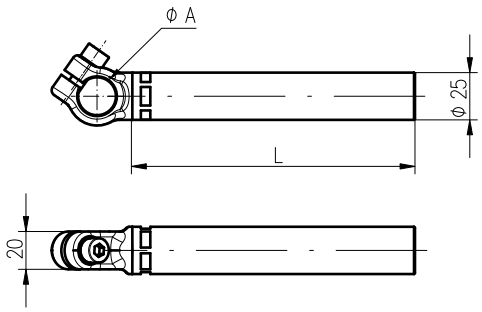
Other lengths upon request

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Extension with end clamp





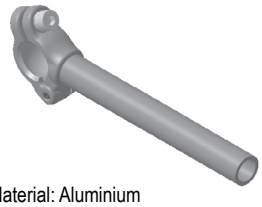
Material: Aluminium

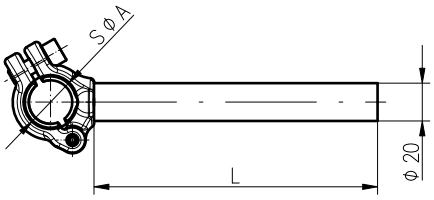
Part no.	Ø A
ESA-90-25-B19-L	19
ESA-90-25-B20-L	20

Ordering information	e.g..: ESA-90-25-B20-200	
ESA-90-25	-A	-L
	Diameter	Length
	↓	↓
	B19 (Ø19)	200
	B20 (Ø20)	400
		600

Other lengths upon request

Extension with end clamp, Ball mount





Material: Aluminium

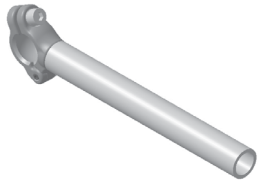
Part no.	SØ A
ESA-90-20-K28-L	28.5
ESA-90-20-K32-L	32.0

Ordering information	e.g.: ESA-90-20-K32-200	
ESA-90-20	-A	-L
	Diameter	Length
	↓	↓
	K28	200
	K32	400
		600

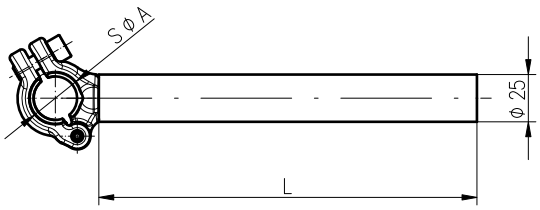
Other lengths upon request

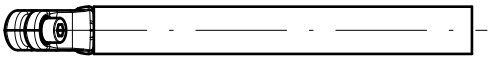
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Extension with end clamp, Ball mount



Material: Aluminium





Part no.	SØ A
ESA-90-25-K28-L	28.5
ESA-90-25-K32-L	32.0

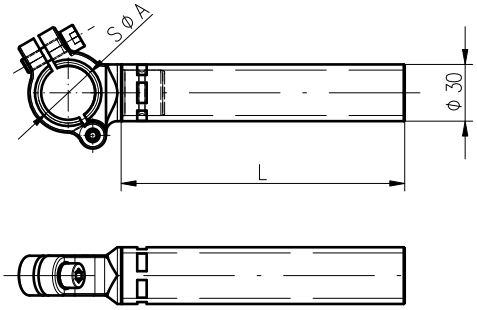
Ordering information		e.g.: ESA-90-25-K28-200
ESA-90-25	-A	-L
	Diameter	Length
	↓	↓
	K28	200
	K32	400
		600

Other lengths upon request

Extension with end clamp, Ball mount



Material: Aluminium



Part no.	SØ A
ESA-90-30-K32-L	32
ESA-90-30-K36-L	36

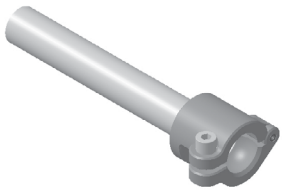
Ordering information		e.g.: ESA-90-30-K32-200
ESA-90-30	-A	-L
	Diameter	Length
	↓	↓
	K32	200
	K36	400
		600

Other lengths upon request

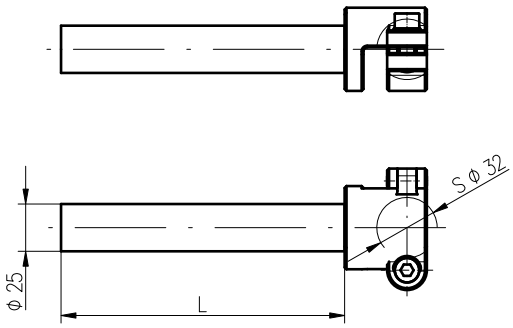
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Single end extension, with split clip, Ball mount



Material: Aluminium

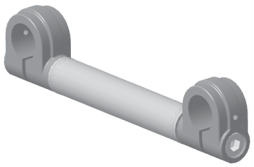


Ordering information	e.g.: ESA-00-25-K32-200
ESA-00-25-K32	-L
	Länge
	↓
	200
	400
	600

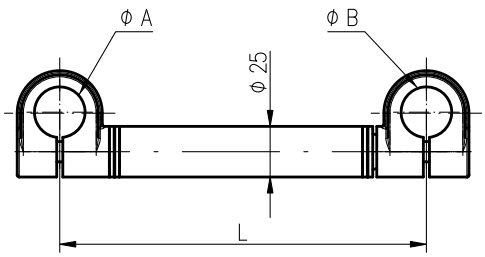
Other lengths upon request

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Swivel arm threaded at both ends



Material: Aluminium



Part no.	Ø A	Ø B
ED25-25-19-L	25	19
ED25-25-25-L	25	25
ED25-40-19-L	40	19
ED25-40-25-L	40	25
ED25-40-40-L	40	40
ED25-60-19-L	60	19
ED25-60-25-L	60	25
ED25-60-40-L	60	40

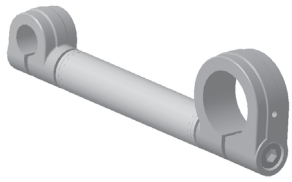
Ordering information		e.g.: ED25-25-25-200
ED25	-A-B	-L
	Diameter	Length
	↓	↓
	25-19	50 - 400 (25mm Increments)
	25-25	Other lengths upon request
	40-19	
	40-25	
	40-40	
	60-19	
	60-25	
	60-40	

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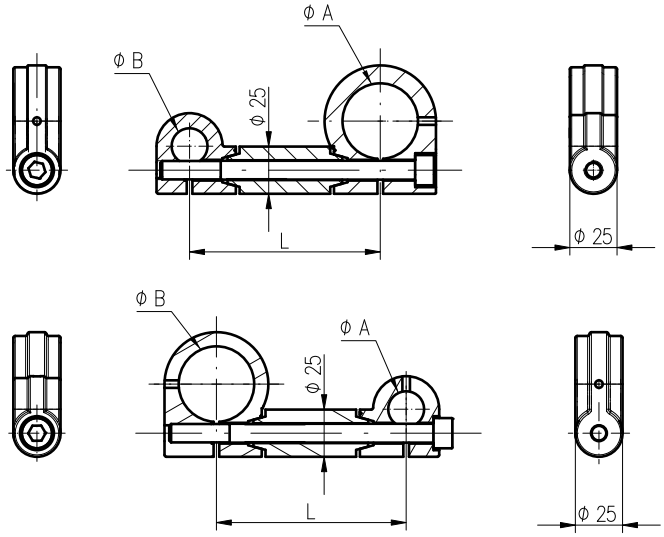
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Swivel & extension arms

Swivel arm with through bolt



Material: Aluminium



Part no.	Ø A	Ø B
SA25-19-20-*	19	20
SA25-20-19-*	20	19
SA25-19-25-*	19	25
SA25-25-19-*	25	19
SA25-25-25-*	25	25
SA25-19-40-*	19	40
SA25-20-40-*	20	40
SA25-25-40-*	25	40
SA25-40-19-*	40	19
SA25-40-20-*	40	20
SA25-40-25-*	40	25
SA25-40-40-*	40	40
SA25-19-60-*	19	60
SA25-25-60-*	25	60
SA25-40-60-*	40	60
SA25-60-19-*	60	19
SA25-60-25-*	60	25
SA25-60-40-*	60	40

Ordering information e.g.: SA25-40-19-200

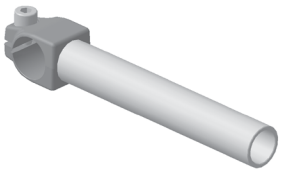
SA25	-A-B	-L
	Diameter	Length
	↓	↓
	19-20	50 - 200 (25mm Increments)
	20-19	
	19-25	
	25-19	
	25-25	
	19-40	
	20-40	
	25-40	
	40-19	
	40-20	
	40-25	
	40-40	

SA25	-A-B	-L
	Diameter	Length
	↓	↓
	19-60	50 (L=55 mm)
	25-60	75 (L=80mm)
	40-60	100 (L=105 mm)
	60-19	125 (L=130 mm)
	60-25	150 (L=155 mm)
	60-40	175 (L=180 mm)
		200 (L=205 mm)

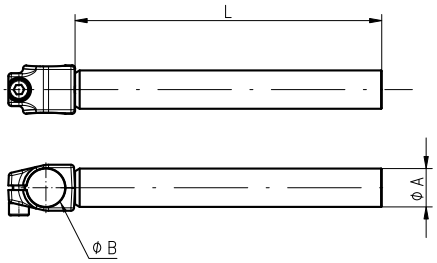
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Single end extension, 90°

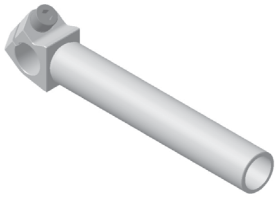


Material: Steel

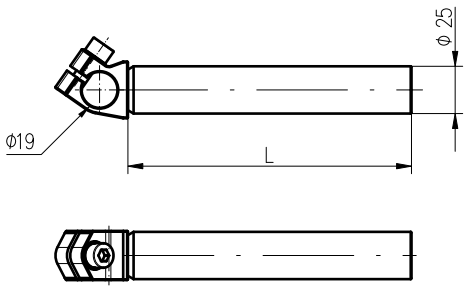


Ordering information			e.g.: ESS-90-25-25-200
ESS-90	-A	-B	-L
	Diameter	Diameter	Length
	↓	↓	↓
	20	20	200
	25	25	400
	30	30	600
		40	Other lengths upon request

Single end extension, Bolt mount



Material: Steel



Ordering information		e.g.: ESS-90-25-B19-200
ESS-90-25-B19	-L	
	Length	
	↓	
	200	
	400	
	600	

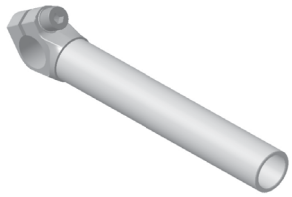
Other lengths upon request

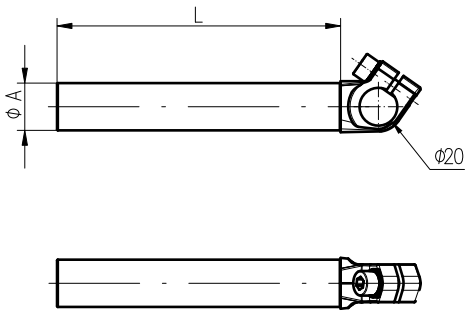
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Swivel & extension arms

Single end extension, Bolt mount



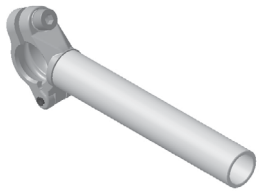


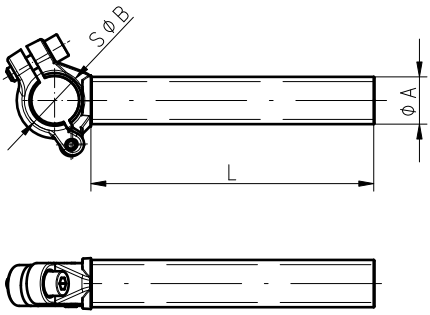
Material: Steel

Ordering information			e.g.: ESS-90-25-B20K-200
ESS-90	-A	-B20K	-L
	Diameter		Length
	↓		↓
	20		200
	25		400
	30		600

Other lengths upon request

Single end extension, 90°, with split clip, Bolt mount





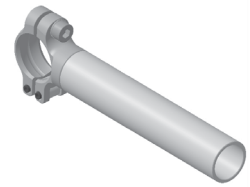
Material: Steel

Ordering information			e.g.: ESS-90-25-K28-200
ESS-90	-A	-B	-L
	Diameter	Diameter	Length
	↓	↓	↓
	20	K28	200
	25	K32	400
	30		600

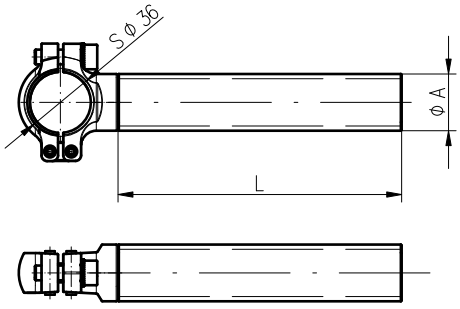
Other lengths upon request

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Single end extension, 90°, with split clip, Bolt mount

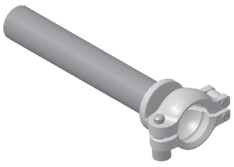


Material: Steel

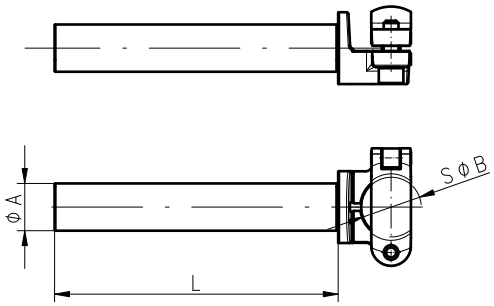


Ordering information			e.g.: ESS-90-25-K28-200
ESS-90	-A	-K36	-L
	Diameter		Length
	↓		↓
	20		200
	25		400
	30		600

Single end extension, 90°, with split clip, Bolt mount



Material: Steel



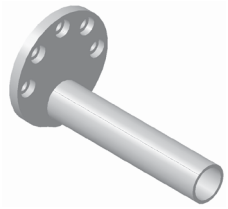
Ordering information			e.g.: ESS-00-25-K36-200
ESS-00	-A	-B	-L
	Diameter	Diameter	Length
	↓	↓	↓
	20	K28	200
	25	K32	400
	30	K36	600

Other lengths upon request

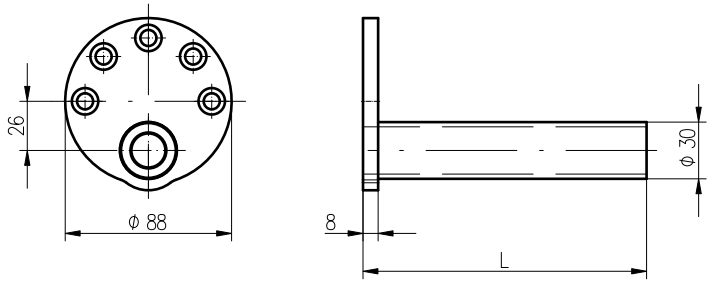
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Connections for swivel unit



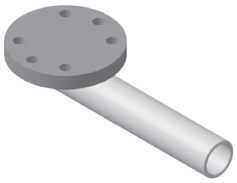
Material: Aluminium



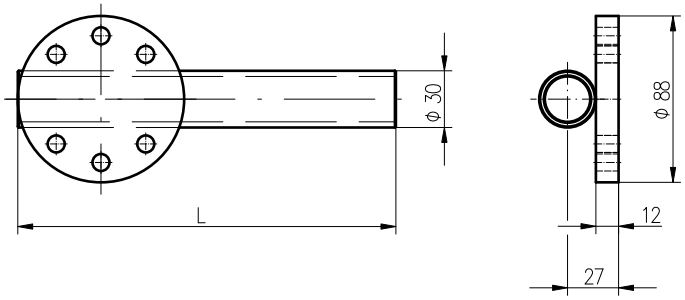
Part no.
BRCMA-00-70-30-L

Ordering information	e.g.: BRCMA-00-70-30-200
BRCMA-00-70-30	-L
	Length
	↓
	100 - 450 (50mm increments)

Connections for swivel unit



Material: Aluminium



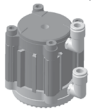
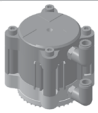
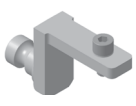
Part no.
BRCMA-90-70-30-L

Ordering information	e.g.: BRCMA-90-70-30-200
BRCMA-90-70-30	-L
	Length
	↓
	100 - 450 (50mm increments)

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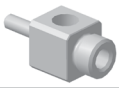
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Vacuum cups and connections

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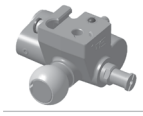
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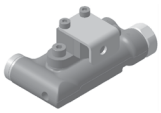
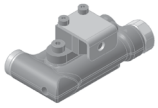
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Vacuum cups and connections

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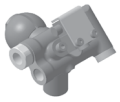
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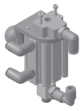
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Vacuum cups and connections

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Vacuum cups and connections

Vacuum cup type	Applications	Characteristics	Durometers
Bell suction cup, round **TYP PFG**  Page 253	For flat until convex surfaces, edges and limited 3D geometry. Aluminium and steel panels as well as outer parts with solid lubricant and oil. Optimal for panel loader. Plastic handling until 100 degrees. Combines holding forces of flat foot cups with the advantages of traction cups (increased stroke compared to PF cups).	Extremely wear resistant material TPU. Due to geometry of interior rips very high adhesion power resisting transverse forces. No surface damage on thin panels.	Shore 80 (yellow)
Bell suction cup, oval **TYP PFG**  Page 254	For flat until convex surfaces, edges and limited 3D geometry. Aluminium and steel panels as well as outer parts with solid lubricant and oil. Optimal for handling of smaller parts. Plastic handling until 100 degrees.	Extremely wear resistant material TPU. Due to geometry of interior rips very high adhesion power resisting transverse forces. No surface damage on thin panels.	Shore 80 (yellow)
Flatfoot cup, round **TYP PF**  Page 255	Flat or slightly curved parts. Al or VA material with sensitive surfaces. Outer surfaces of class „A“. Oily wet parts for the use in panels loaders, feeder systems destakers.	The interior rib foundation holds the part tight during the accelerated or decelerated transfer and avoids the pulling of dents.	Shore 55 (yellow)
Flatfoot cup, oval **TYP PF**  Page 256	Flat surfaces, aluminium or steel, small contact surfaces, oily or wet surfaces, outer surfaces of class „A“.	The interior rib foundation holds the part tight during the accelerated transfer or decelerated transfer and avoids the pulling of dents. In comparsion to the round cups the oval cup offers a greater contact area on smaller parts. Particularly interior parts (door, hood, etc.)	Shore 55 (yellow)
Traction cup, round **TYP HT**  Page 257	Destacker, prebend tools, loading and unloading feeders, destackers etc. Safe transport of the parts at high transportation speed. Soiled and oily surfaces. Wood, paper board containers, plastics, glass.	The sharpe of the cup allows accommondation of uneven or preshaped parts pf panels. The interior rib foundation holds the part tight during the accelerated or decelerated transfer and avoids the pulling of dents.	Shore 55 (yellow)

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Vacuum cup type	Applications	Characteristics	Durometers
Traction cup, oval **TYP HT**  Page 258	General light-duty operating conditions for parts with polished or painted surcfaces. Oval shape for good suctions power at small width of the parts.	Due to its flexible design the contact surface of the cup will accommodate parts with uneven, considerable contour. The belcup offers flexibility even under conditions of high acceleration, deceleration and rotations at high speed. Polished and painted surfaces can be use as a working surfaces without damaging. No damaging of sensitive surfaces by a soft seal.	Shore 55 (yellow)
Belcup, round **TYP BT**  Page 259	General light-duty operating condtions. erratically formed parts with polished or peintad surfaces. Wood, paper board containers, platics, glass.	Due to its flexible design the contact surface of the cup will accommodate parts with uneven, considerable contour. The belcup offers flexibility even under conditions of high acceleration, deceleration and rotations at high speed. Polished and painted surfaces can be use as a working surfaces without damaging. No damaging of sensitive surfaces by a soft seal.	Shore 55 (yellow)
Outer contour cup **TYP DM**  Page 260	Destackers Tubes, hydroforming loading and unloading grippers.	The long and relatively soft lip connects limberly to deformed plate structures. The contour cup is used in areas, where an exact transport and deposit of the part in the right position in essential. The interior rib foundation holds the part tight during the accelerated oe decelerated transfer and avoids the pulling of dents.	Shore 55 (yellow)

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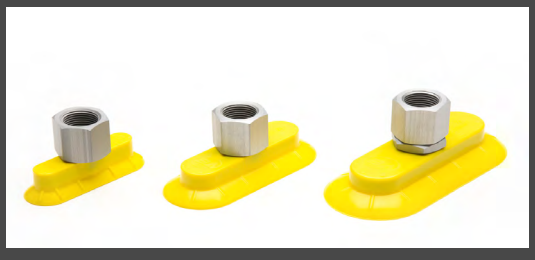


Maximum flexibility in part handling

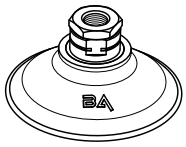
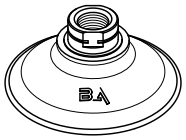
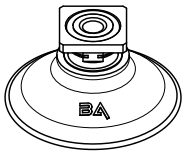
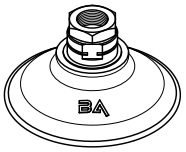
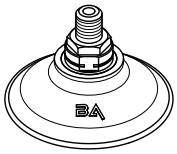
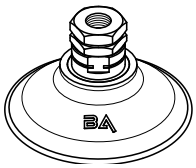
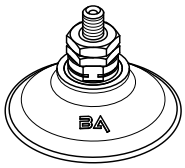
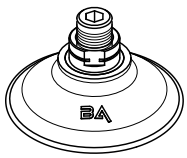
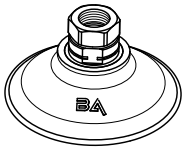
Servo-press machines and the newest automation technologies have accelerated production processes in press shops. Higher manipulation speed as a result of this upgrade demands vacuum cups with higher adhesion and friction forces as well as more flexibility. In order to meet these criteria, Bilsing Automation has developed a new generation of vacuum cups. The new generation was developed in addition to the standard 55 shore cups and extent the BILSING range of vacuum cups.

The new vacuum cups offer the following advantages:

- **Very high adhesion power resisting transverse forces**
- **Optimal adjustment with components' outlines**
- **No surface damage on components as a result of one-piece vacuum cup geometry**
- **Parts' position maintained even at emergency switch offs.**
- **Extreme resistance to wear and tear**
- **Can be used on aluminum, steel and plastic surfaces**
- **Green production by recyclable material**
- **Decreased weight compared to 55 shore cups**





Connection Description		Mount
	G 1/4“ internal thread	A
	G 3/8“ internal thread	B
	C-Mount	C
	G 3/8“ internal thread with SW22 Jam nut with SW22 (height = 6mm)	F
	M10 male thread with SW22	K
	G 1/4“ internal thread with SW22 Jam nut with SW22 (height = 6mm)	G
	M10 male thread with SW22 Jam nut with SW22 (height = 6mm)	N
	G 3/8“ male thread with SW22 and plastic insert	P
	G 3/8“ internal thread with SW22 Jam nut with SW22 (height = 9mm)	X

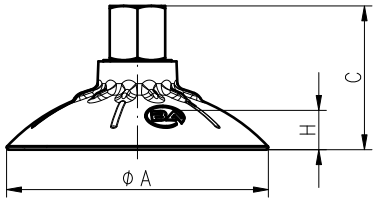
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Vacuum cups and connections

Bell suction cup, round





Part no.	Ø A	Ø A max.	C	H	Vol. cm³	convex	(kg)
20PFG	23.3	25.0	33.7	2.4	1.55	20	0.020
30PFG	33.78	35.9	35.0	4.3	3.2	17	0.020
40PFG	43.11	47.4	37.6	7.0	7.0	25	0.022
50PFG	53.5	58.7	42.2	7.2	14.1	26	0.030
60PFG	62.74	68.4	44.2	8.8	23.8	31	0.032
80PFG	84.0	92.03	48.0	13.2	50.4	35	0.044
100PFG	105.0	111.4	57.2	16.1	93.9	45	0.068

Amax. = Diameter in vacuum position
Vol. = Volume in ccm air
convex. = Minimum bending radius
H = travel

Mass in B-Mount

Technical data

Holding forces	vertical stroke at vacuum of			lateral forces parallel at vacuum of		
Part no.	-50kPa	-70kPa	-90kPa	-50kPa	-70kPa	-90kPa
30PFG	45	55	60	35	45	51
40PFG	45	74	81	49	70	79
50PFG	91	119	129	89	119	127
60PFG	140	172	184	148	165	179
80PFG	219	291	307	220	291	301
100PFG	309	429	439	341	421	430

measured holding forces on oiled, zinc-plated steel plate; Measurements in N

Depending on temperature and part surface as well as other parameter the real values can diversify.

Ordering information	e.g.: 60PFG-B-80	
Size	Mount*	Hardness in Shore
↓	↓	↓
20PFG	A	80 (yellow)
30PFG	B	
40PFG	C	
50PFG	F	
60PFG	K	
80PFG	P	
100PFG	X	

*See page 252 for vacuum cup mounts

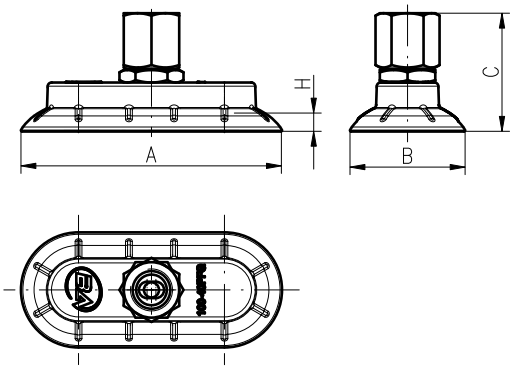
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25 up to +100°
Shore hardness	80°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol
Capacities	silicone-free

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Bell suction cup, oval





Part no.	AxB	AxB max.	C	H	(kg)
55-12PFG	53 x 13	55 x 15.5	36.8	1.9	0.022
60-20PFG	64 x 22	66 x 24	38.5	4.6	0.029
80-30PFG	84 x 34	86 x 36	39.1	5.7	0.039
100-40PFG	104 x 44	107 x 46	45.7	7.3	0.062

AxBmax. = diameter in vacuum position

Technical data

Holding force	vertical stroke at vacuum of			lateral forces parallel at vacuum of		
Part no.	-50kPa	-70kPa	-90kPa	-50kPa	-70kPa	-90kPa
55-12PFG	13	20	25	3	5	7
60-20PFG	70	95	115	35	50	75
80-30PFG	125	170	190	75	80	95
100-40PFG	220	285	350	120	135	160

measured holding forces on oiled, zinc-plated steelt plate; Measurements in N, longitudinal to the tensile direction

Ordering information		e.g.: 60-20PFG-B-80
Size	Mount	Hardness in shore
↓	↓	↓
55-12PFG	A	80 (yellow)
60-20PFG	B	
80-30PFG	C	
100-40PFG	F	
	K	
	P	
	X	

See page 252 for vacuum cup mounts

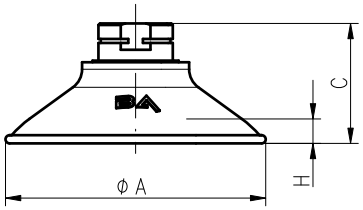
Material	TPU
max. allowable temperature	-30 up to +100°
Shore hardness	80°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol
Capacities	silicone-free

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Flat foot cups, round





Part no.	Ø A	Ø A max.	C	H	Vol.	convex	(kg)
30PF	32	35	36.0	3	2.243	20	0.022
60PF	62	66	34.0	6	16.63	45	0.028
80PF	84	88	35.0	8	39.51	60	0.045
100PF	102	108	40.5	10	71.25	75	0.158
125PF	128	136	48.5	11	139.0	95	0.153

Amax. = Diameter in vacuum position
Vol. = Volume in ccm air
convex. = Minimum bending radius
H = travel

Technical data

Holding force	vertical stroke at vacuum of			lateral forces parallel at vacuum of		
Part no.	-50kPa	-70kPa	-90kPa	-50kPa	-70kPa	-90kPa
30PF	40	50	55	22	24	32
60PF	105	130	155	65	75	85
80PF	165	215	240	105	120	140
100PF	235	300	365	125	145	210
125PF	420	505	605	155	195	245

measured holding forces on oiled, zinc-plated steel plate; Measurements in N

Ordering information e.g.: 80PF-B-55

Size	Mount	
↓	↓	↓
30PF	A	55 (yellow)
60PF	B	
80PF	C	
100PF	F	
125PF	K	
	P	
	X	

See page 252 for vacuum cup mounts

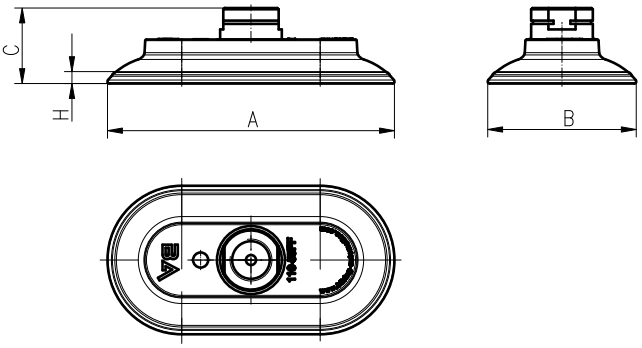
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25 up to +100°
Shore hardness	55°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

Subject to modification
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Flat foot cups, oval





Part no.	AxB	AxB max.	C	H	Vol.	convex	(kg)
55-12PF	50x12	52x14	34	2.5	1.2	9	0.021
60-30PF	64x34	66x36	28	3.5	5.77	35	0.013
80-40PF	84x44	86x47	29	4.5	12.9	40	0.047
110-55PF	114x59	117x62	30	5.5	29.9	65	0.067

Amax. = Diameter in vacuum position
Vol. = Volume in ccm air
convex. = Minimum bending radius
H = travel

Technical data

Holding force	vertical stroke at vacuum of			lateral forces parallel at vacuum of		
Part no.	-50kPa	-70kPa	-90kPa	-50kPa	-70kPa	-90kPa
50-12PF	15	30	35	15	20	30
60-30PF	70	95	115	35	50	75
80-40PF	125	170	190	75	80	95
110-55PF	220	285	350	120	135	160

measured holding forces on oiled, zinc-plated steelt plate; Measurements in N, longitudinal to the tensile direction

Ordering information		e.g.: 60-30PF-B-55
Size	Mount	Hardness in shore
↓	↓	↓
55-12PF	A	55 (yellow)
60-30PF	B	
80-40PF	C	
110-55PF	F	
	K	
	P	
	X	

See page 252 for vacuum cup mounts

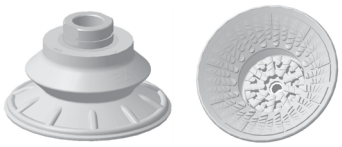
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25 up to +100°
Shore hardness	55°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

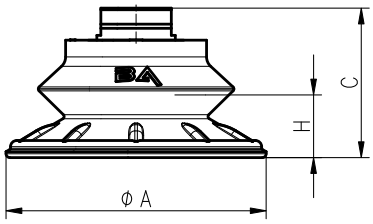
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Vacuum cups and connections

Traction cups, round





Part no.	Ø A	Ø A max.	C	H	Vol.	Bieger.	(kg)
22HT	22.6	25.4	25.4	6.2	2.5	12	0.006
30HT	32.6	33.9	28.4	9.4	5.74	16	0.008
40HT	40	41	40.0	9.5	6.921	20	0.024
50HT	52	55.3	37.8	11.9	16.15	22	0.029
60HT	60	62	49.5	13.0	23.34	25	0.050
80HT	80	83	46.5	19.5	54.85	40	0.055
100HT	100	103	53.0	23.0	107.9	60	0.102

Amax. = diameter in vacuum position
Vol. = volume in ccm air
Bieger. = minimum bending radius
H = travel

Technical data

Holding force	vertical stroke at vacuum of			lateral forces parallel at vacuum of		
Part no.	-50kPa	-70kPa	-90kPa	-50kPa	-70kPa	-90kPa
22HT	11	17	21	1	2	3
30HT	26	35	41	7	11	14
40HT	50	60	70	35	40	45
50HT	70	88	104	40	46	55
60HT	105	120	130	75	85	100
80HT	175	205	235	105	120	140
100HT	250	305	355	110	160	190

measured holding forces on oiled, zinc-plated steelt plate; Measurements in N

Ordering information	e.g.: 80HT-B-55
Size	Mount	Hardness in shore
↓	↓	↓
22HT	A	55 (yellow)
30HT	B	
40HT	C	
50HT	F	
60HT	K	
80HT	P	
100HT	X	

See page 252 for vacuum cup mounts

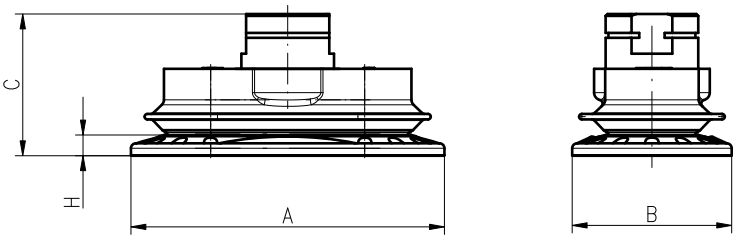
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25 up to +100°
Shore hardness	55°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

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Traction cups, oval





Part no.	AxB	AxB max.	C	H	Vol.	convex.	(kg)
60-30HT	63x34	64x36	34.0	6.0	7.96	28	0.039
80-40HT	82x41	83x44	36.5	9.5	19.7	30	0.048
110-55HT	113x57	114x59	43.5	12.0	50.5	50	0.097

Amax. = Diameter in vacuum position
Vol. = Volume in ccm air
convex. = Minimum bending radius
H = travel

Technical data

Holding force	vertical stroke at vacuum of			lateral forces parallel at vacuum of		
Part no.	-50kPa	-70kPa	-90kPa	-50kPa	-70kPa	-90kPa
60-30HT	60	65	75	45	50	55
80-40HT	80	100	140	75	80	95
110-55HT	160	200	250	105	130	160

measured holding forces on oiled, zinc-plated steelt plate; Measurements in N, longitudinal to the tensile direction

Ordering information		e.g.: 60-30HT-B-55
Size	Mount	Hardness in shore
↓	↓	↓
60-30HT	A	55 (yellow)
80-40HT	B	
110-55HT	C	
	F	
	K	
	P	
	X	

See page 252 for vacuum cup mounts

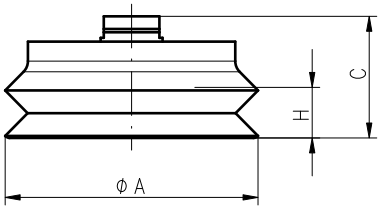
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25 up to +100°
Shore hardness	55°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

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Belcup, round





Part no.	Ø A	Ø A max.	C	H	Vol.	convex	(kg)
30BT	30.5	31.0	40.0	11.0	5.114	12	0.01
40BT	41.5	41.7	36.0	9.2	13.4	20	0.038
50BT	53.0	56.2	48.5	18.3	29.66	25	0.061
75BT	75.0	77.0	48.5	18.3	72.24	50	0.093
100BT	100.0	101.0	48.0	18.5	143.5	65	0.16
125BT	124.0	126.1	48.0	16.7	230.8	150	0.254

Amax. = Diameter in vacuum position
Vol. = Volume in ccm air
convex. = Minimum bending radius
H = travel

Technical data

Holding force	vertical stroke at vacuum of			lateral forces parallel at vacuum of		
Part no.	-50kPa	-70kPa	-90kPa	-50kPa	-70kPa	-90kPa
30BT	14	20	44	12	23	28
40BT	55	75	90	35	40	50
50BT	90	120	150	50	60	65
75BT	170	220	270	80	90	95
100BT	320	400	470	105	125	145
125BT	470	595	715	145	165	200

measured holding forces on oiled, zinc-plated steelt plate; Measurements in N

Ordering information e.g.: 75BT-B-55

Size	Mount	Hardness in shore
↓	↓	↓
30BT	A	55 (yellow)
40BT	B	
50BT	C	
75BT	F	
100BT	K	
125BT	P	
	X	

See page 252 for vacuum cup mounts

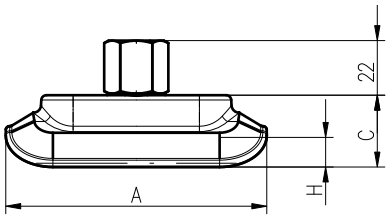
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25 up to +100°
Shore hardness	55°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

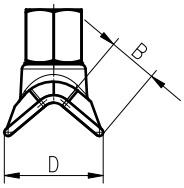
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Outer contour cup, oval







Part no.	A	B	C	D	H	Vol.	(kg)
50-15DM	50	15	17	23	10	3.8	0.074
75-20DM	72	20	20	25	12	7.5	0.081
100-25DM	101	25	26	39	14	18.2	0.091

Vol. = Volume in ccm air
H = Travel

Technical data

Holding force	vertical stroke at vacuum of			Lateral forces parallel at vacuum of		
Part no.	-50kPa	-70kPa	-90kPa	-50kPa	-70kPa	-90kPa
50-15DM	30	40	55	20	25	30
75-20DM	70	80	100	40	55	60
100-25DM	140	165	205	95	115	145

Holding force gemessen auf geöltem verzinktem Stahlblech, Werte in N, längs zur Zugrichtung

Ordering information		e.g.: 75-20DM-B-55
Size	Mount*	Hardness in shore
↓	↓	↓
50-15DM	A	55 (yellow)
75-20DM	B	
100-25DM	C	
	F	
	K	
	P	
	X	

See page 252 for vacuum cup mounts

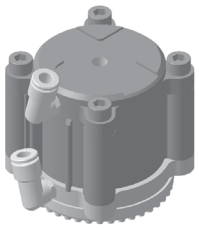
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25 up to +100°
Shore hardness	55°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

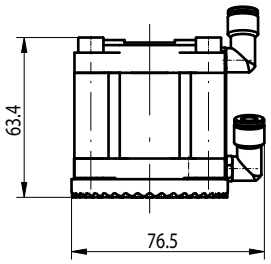
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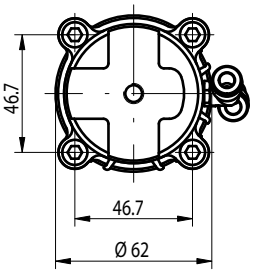
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Vacuum cups and connections

Pneumatic magnet







0.488 kg
Material: Aluminium

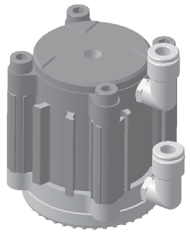
Part no.
MA-50-M5-6S

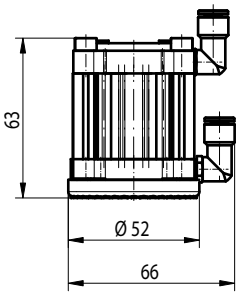
Technical Data

operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	177 N
max. holding force (2 mm Blank)	317 N
max. holding force (3 mm Bank)	327 N
Lateral force (2 mm Blank)	119 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 70°C

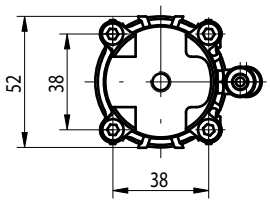
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Pneumatic magnet





0.402 kg
Material: Aluminium



Part no.
MA-40-M5-6S

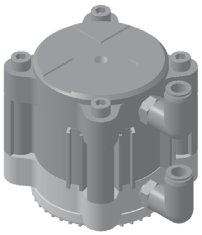
Technical Data

operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	140 N
max. holding force (2 mm Blank)	170 N
max. holding force (3 mm Bank)	200 N
Lateral force (2 mm Blank)	44 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 70°C

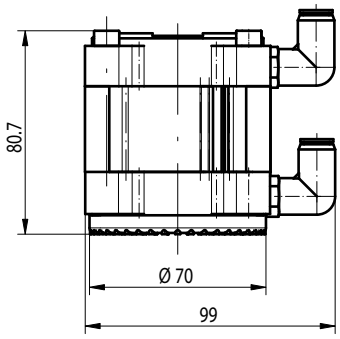
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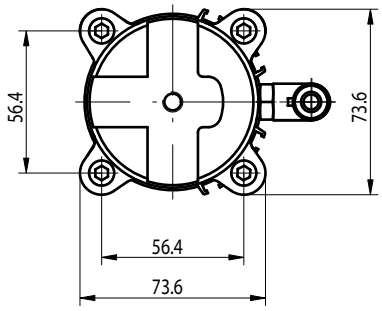
Vacuum cups and connections

Pneumatic magnet



1.14 kg
Material: Aluminium





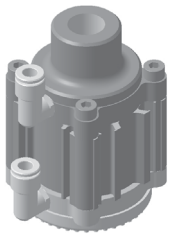
Part no.
MA-63-G18-6S

Technical Data

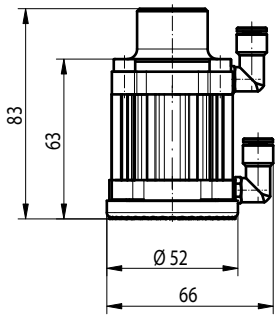
operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	270 N
max. holding force (2 mm Blank)	320 N
max. holding force (3 mm Bank)	340 N
Lateral force (2 mm Blank)	107 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 70°C

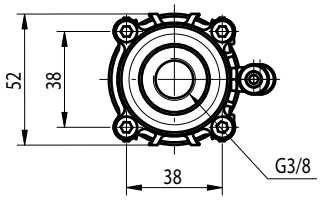
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Pneumatic magnet with 3/8 inch thread



0.445 kg
Material: Aluminium





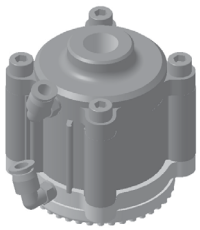
Part no.
MA-40-M5-6S-G38i

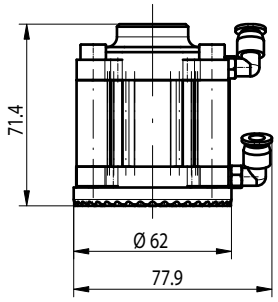
Technical Data

operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	140 N
max. holding force (2 mm Blank)	170 N
max. holding force (3 mm Bank)	200 N
Lateral force (2 mm Blank)	44 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 70°C

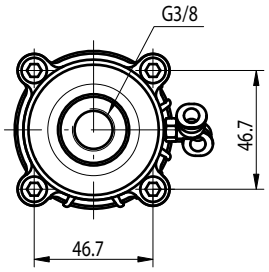
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Pneumatic magnet with 3/8 inch thread





0.506 kg
Material: Aluminium



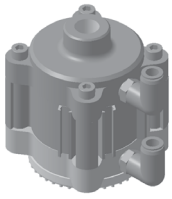
Part no.
MA-50-M5-6S-G38i

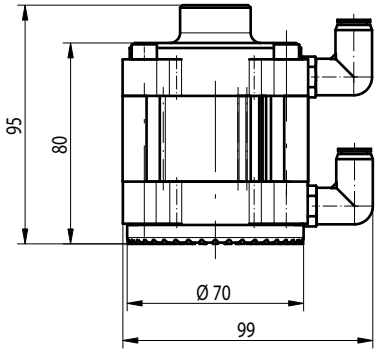
Technical Data

operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	177 N
max. holding force (2 mm Blank)	317 N
max. holding force (3 mm Bank)	327 N
Lateral force (2 mm Blank)	119 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 70°C

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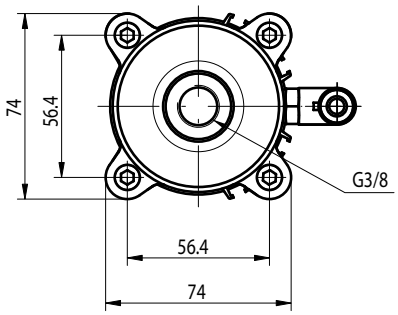
Pneumatic magnet with 3/8 inch thread





1.16 kg
Material: Aluminium

Part no.
MA-63-G18-6S-G38i



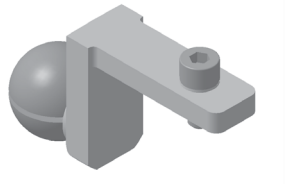
Technical Data

operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	270 N
max. holding force (2 mm Blank)	320 N
max. holding force (3 mm Bank)	340 N
Lateral force (2 mm Blank)	107 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 70°C

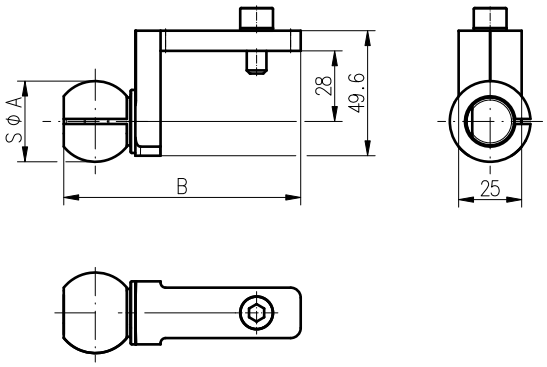
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Vacuum cups and connections

Holder for Magnet

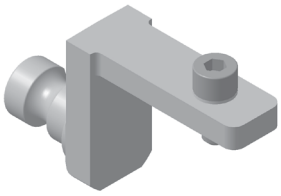


Material: Aluminium

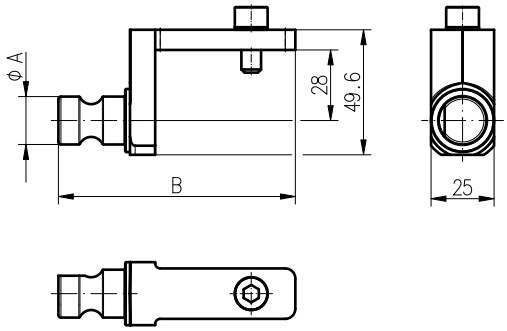


Part no.	S Ø A	B	(kg)	Magnet model
HA-MA-40-K28	28.5	84.0	0.10	MA-40-M5-6S
HA-MA-40-K32	32.0	84.0	0.11	
HA-MA-50-K28	28.5	87.5	0.10	MA-50-M5-6S
HA-MA-50-K32	32.0	87.5	0.11	
HA-MA-63-K28	28.5	94.0	0.10	MA-63-G18-6S
HA-MA-63-K32	32.0	94.0	0.11	

Holder for Magnet



Material: Aluminium



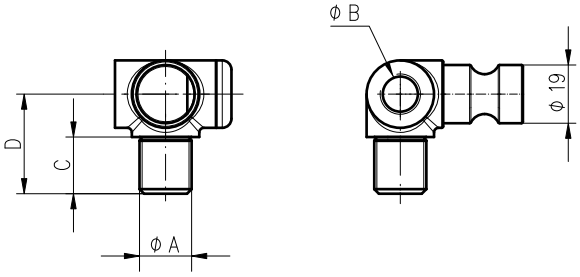
Part no.	Ø A	B	(kg)	Magnet model
HA-MA-40-B19	19.0	84.0	0.09	MA-40-M5-6S
HA-MA-40-B20	20.0	86.1	0.09	
HA-MA-50-B19	19.0	87.5	0.09	MA-50-M5-6S
HA-MA-50-B20	20.0	89.6	0.09	
HA-MA-63-B19	19.0	94.0	0.09	MA-63-G18-6S
HA-MA-63-B20	20.0	96.1	0.09	

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Port only adapter



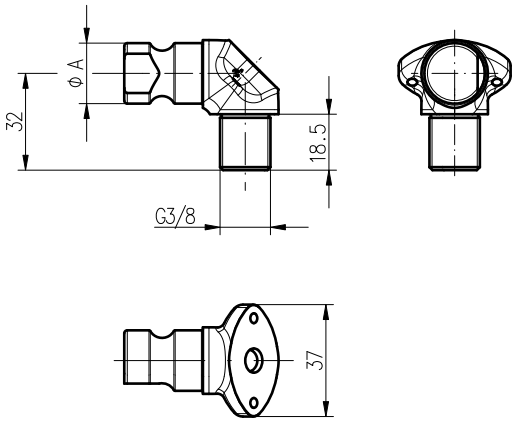


Material: Aluminium

Part no.	Ø A	Ø B	C	D	(kg)	Shut-off plug
PA-19-LR-G3/8	G 3/8	G 1/4	18.5	32.0	0.06	VS-1/4-I6KT
PA-19-LR-G1/4	G 1/4	G 1/4	15.0	28.5	0.06	VS-1/4-I6KT
PA-19-LR-G3/8-B	G 3/8	G 3/8	15.0	28.5	0.06	VS-3/8-I6KT

Port only adapter





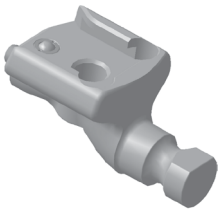
Material: Aluminium

Part no.	Ø A	(kg)
PA-B19-G38a-AM-LR	19	0.049
PA-B20-G38a-AM-LR	20	0.052

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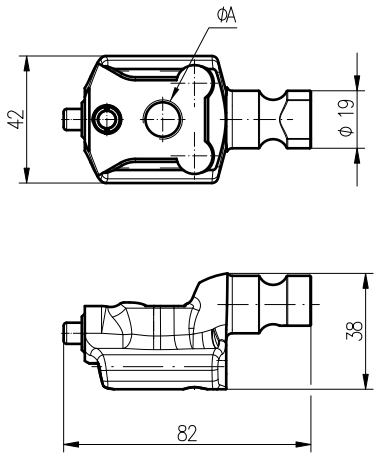
Vacuum cups and connections

Port only adapter for vacuum cups with C-mount



Material: Aluminium

Part no.	Ø A	(kg)
PA-19-C-G1/8	G 1/8	0.08
PA-19-C-G1/4	G 1/4	0.08

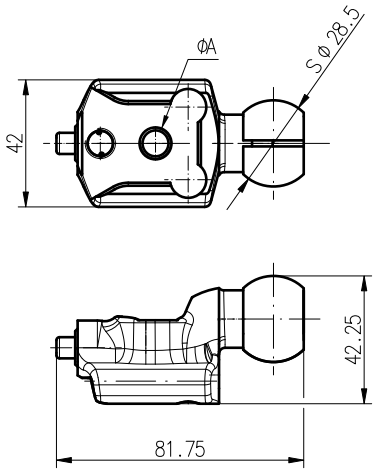


Port only adapter for vacuum cups with C-mount



Material: Aluminium

Part no.	SØ A	(kg)
PA-K28-C-G1/8	G 1/8	0.108
PA-K28-C-G1/4	G 1/4	0.106

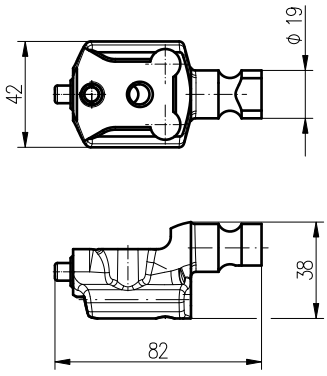


Port only adapter for vacuum cups with C-mount



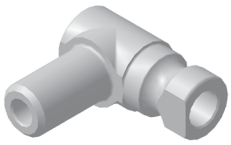
0.11 kg
Material: Aluminium

Part no.
PA-B19-C

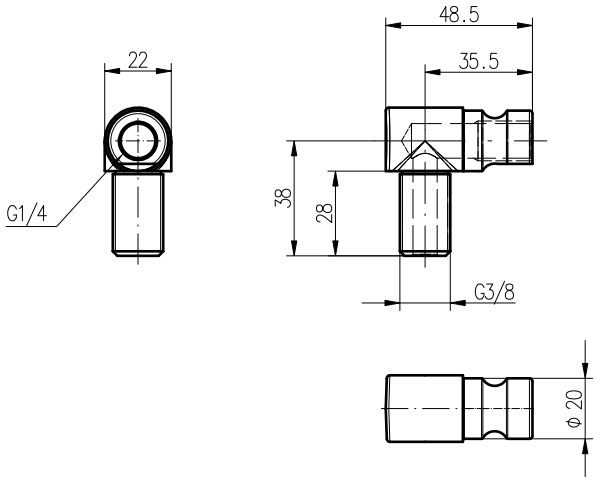


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Port only adapter

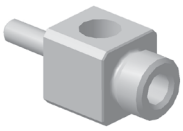


0.05 kg
Material: Aluminium

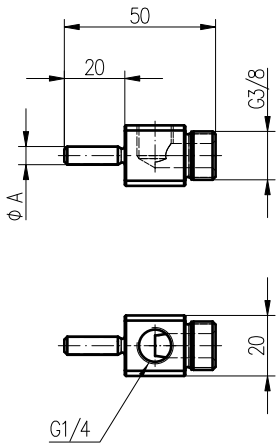


Part no.
PA-B20K-G3/8a

Port only adapter



Material: Aluminium

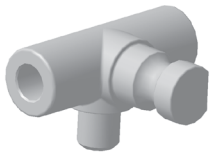


Part no.	Ø A	(kg)
PA-G3/8-G1/4-M6	M6	0.07
PA-G3/8-G1/4-M8	M8	0.07

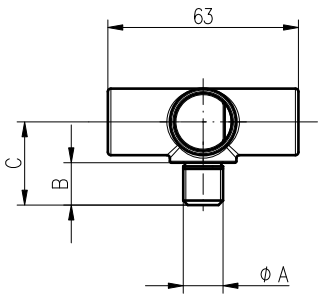
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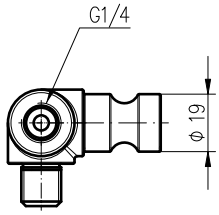
Vacuum cups and connections

Venturi



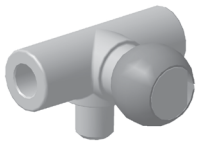
Material: Aluminium



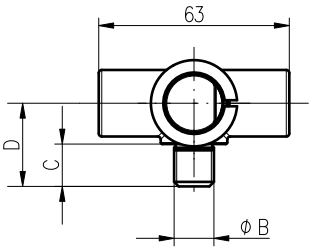


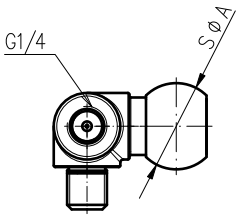
Part no.	Ø A	B	C	(kg)
VMA-19-G1/4	G1/4	14.0	27.5	0.107
VMA-19-G3/8	G3/8	18.5	32.0	0.111

Venturi



Material: Aluminium





Part no.	SØ A	Ø B	C	D	(kg)
VMA-K28-G1/4	28.5	G1/4	14.0	27.5	0.107
VMA-K28-G3/8	28.5	G3/8	18.5	32.0	0.111
VMA-K32-G1/4	32.0	G1/4	14.0	27.5	0.110

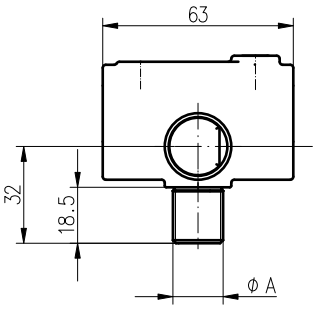
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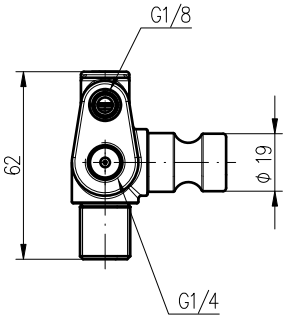
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Venturi with blowoff



Material: Aluminium



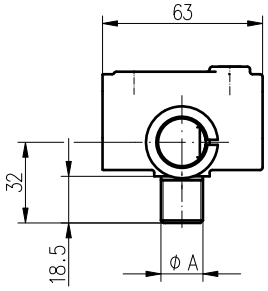


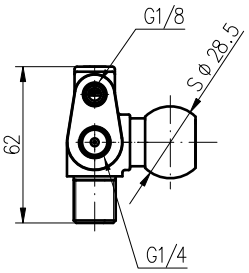
Part no.	Ø A	(kg)
VMA-19-BO-G1/4	G1/4	0.107
VMA-19-BO-G3/8	G3/8	0.111

Venturi with blowoff



Material: Aluminium





Part no.	Ø A	(kg)
VMA-K28-BO-G1/4	G1/4	0.20
VMA-K28-BO-G3/8	G3/8	0.20

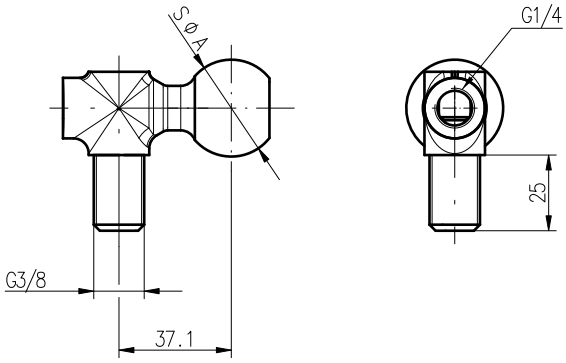
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Vacuum cups and connections

Vacuum mount, with air



Material: Aluminium

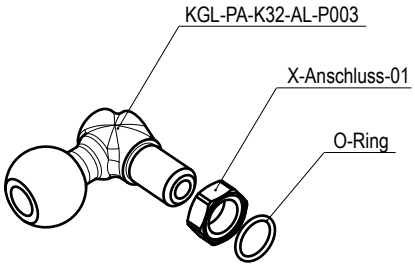


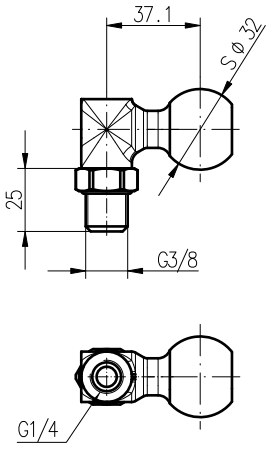
Part no.	S Ø A	(kg)
KGL-PA-K28-AL-P001	28.5	0.071
KGL-PA-K32-AL-P001	32.0	0.088

Port only adapter with ball and lock nut



0.085 kg
Material: Aluminium



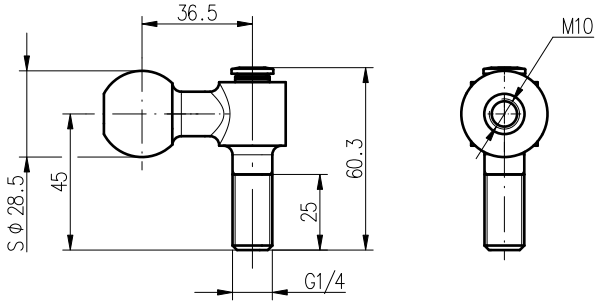


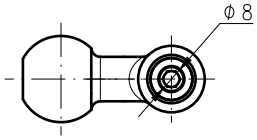
Part no.
KGLA-PA-K32-G38a-3-K

Port Only Adapter with ball mount



0.075 kg
Material: Aluminium





Part no.
PA-K28-G14-QS-8-45

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Spring cup mounts





SCM-	40-		G14	…	…	…
				W-	NR-	A
	↓					
	Travel [mm]	19	↓	↓	↓	↓
		40				
		75				
		95				
			Air connection G1/4			
				Spring strength [mm]	… = medium	
					W = soft	
					Rotation lock	… = without
						NR = with
						Cup mount
						… = G 3/8
						A = G 1/4

Spring cup mounts





SCM-	40-		G14	…	…	…
				K28	NR-	A
	↓					
	Travel [mm]	19	↓	↓	↓	↓
		40				
		75				
		95				
			Air connection G1/4			
				Spring strength [mm]	K28 = Ø 28,5	
					K32 = Ø 32	
					Rotation lock	… = without
						NR = with
						Cup mount
						… = G 3/8
						A = G 1/4

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Vacuum cups and connections

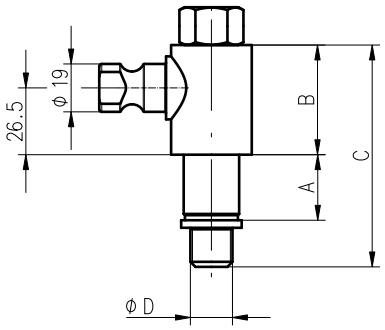
Spring cup mounts

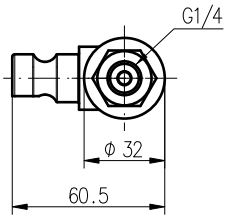


SCM-19-G14
Material: Aluminium



SCM-19-G14-NR
Material: Aluminium





non rotating

Part no.	A Travel	B	C	D	(kg)
SCM-19-G14-NR	19	43.5	88.0	G 3/8	0.19
SCM-19-G14-NR-A	19	43.5	88.0	G 1/4	0.19
SCM-19-G14-W-NR	19	43.5	88.0	G 3/8	0.19
SCM-19-G14-W-NR-A	19	43.5	88.0	G 1/4	0.19
SCM-40-G14-NR	40	82.5	145.5	G 3/8	0.26
SCM-40-G14-NR-A	40	82.5	145.5	G 1/4	0.26
SCM-40-G14-W-NR	40	82.5	145.5	G 3/8	0.26
SCM-40-G14-W-NR-A	40	82.5	145.5	G 1/4	0.26
SCM-75-G14-NR	75	142.0	246.5	G 3/8	0.41
SCM-75-G14-NR-A	75	142.0	246.5	G 1/4	0.41
SCM-75-G14-W-NR	75	142.0	246.5	G 3/8	0.41
SCM-75-G14-W-NR-A	75	142.0	246.5	G 1/4	0.41
SCM-95-G14-NR	95	142.0	261.0	G 3/8	0.47
SCM-95-G14-NR-A	95	142.0	261.0	G 1/4	0.47
SCM-95-G14-W-NR	95	142.0	261.0	G 3/8	0.47
SCM-95-G14-W-NR-A	95	142.0	261.0	G 1/4	0.47

rotating

Part no.	A Travel	B	C	D	(kg)
SCM-19-G14	19	43.5	88.0	G 3/8	0.19
SCM-19-G14-A	19	43.5	88.0	G 1/4	0.19
SCM-19-G14-W	19	43.5	88.0	G 3/8	0.19
SCM-19-G14-A	19	43.5	88.0	G 1/4	0.19
SCM-40-G14	40	82.5	145.5	G 3/8	0.26
SCM-40-G14-A	40	82.5	145.5	G 1/4	0.26
SCM-40-G14-W	40	82.5	145.5	G 3/8	0.26
SCM-40-G14-W-A	40	82.5	145.5	G 1/4	0.26
SCM-75-G14	75	142.0	246.5	G 3/8	0.41
SCM-75-G14-A	75	142.0	246.5	G 1/4	0.41
SCM-75-G14-W	75	142.0	246.5	G 3/8	0.41
SCM-75-G14-W-A	75	142.0	246.5	G 1/4	0.41
SCM-95-G14	95	142.0	261.5	G 3/8	0.47
SCM-95-G14-W	95	142.0	261.5	G 1/4	0.47
SCM-95-G14-A	95	142.0	261.5	G 3/8	0.47
SCM-95-G14-W-A	95	142.0	261.5	G 1/4	0.47

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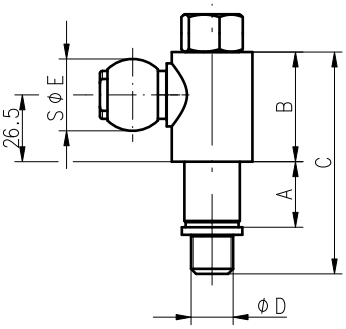
Spring cup mounts



SCM-19-G14-K28
Material: Aluminium

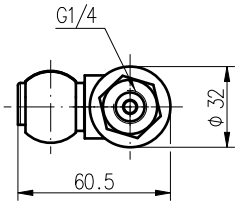


SCM-19-G14-K28-NR
Material: Aluminium



non rotating

Part no.	A Travel	B	C	D	SØE	(kg)
SCM-19-G14-K28-NR	19	43.5	88.0	G 3/8	28.5	0.19
SCM-19-G14-K28-NR-A	19	43.5	88.0	G 1/4	28.5	0.19
SCM-19-G14-K32-NR	19	43.5	88.0	G 3/8	32.0	0.19
SCM-40-G14-K28-NR	40	82.5	145.5	G 3/8	28.5	0.26
SCM-40-G14-K28-NR-A	40	82.5	145.5	G 1/4	28.5	0.26
SCM-40-G14-K32-NR	40	82.5	145.5	G 3/8	32.0	0.26
SCM-75-G14-K28-NR	75	142.0	246.5	G 3/8	28.5	0.41
SCM-75-G14-K28-NR-A	75	142.0	246.5	G 1/4	28.5	0.41
SCM-75-G14-K32-NR	75	142.0	246.5	G 3/8	32.0	0.41
SCM-95-G14-K28-NR	95	142.0	261.0	G 3/8	28.5	0.47
SCM-95-G14-K28-NR-A	95	142.0	261.0	G 1/4	28.5	0.47
SCM-95-G14-K32-NR	95	142.0	261.0	G 3/8	32.0	0.47

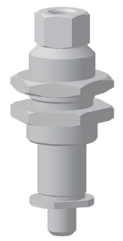


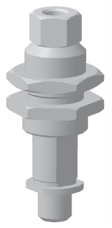
rotating

Part no.	A Travel	B	C	D	SØE	(kg)
SCM-19-G14-K28	19	43.5	88.0	G 3/8	28.5	0.19
SCM-19-G14-K28-A	19	43.5	88.0	G 1/4	28.5	0.19
SCM-19-G14-K32	19	43.5	88.0	G 3/8	32.0	0.19
SCM-19-G14-K32-A	19	43.5	88.0	G 1/4	32.0	0.19
SCM-40-G14-K28	40	82.5	145.5	G 3/8	28.5	0.26
SCM-40-G14-K28-A	40	82.5	145.5	G 1/4	28.5	0.26
SCM-40-G14-K32	40	82.5	145.5	G 3/8	32.0	0.26
SCM-75-G14-K28	75	142.0	246.5	G 3/8	28.5	0.41
SCM-75-G14-K28-A	75	142.0	246.5	G 1/4	28.5	0.41
SCM-75-G14-K32	75	142.0	246.5	G 3/8	32.0	0.41
SCM-95-G14-K28	95	142.0	261.0	G 3/8	28.5	0.47
SCM-95-G14-K28-A	95	142.0	261.0	G 1/4	28.5	0.47
SCM-95-G14-K32	95	142.0	261.0	G 3/8	32.0	0.47

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Spring cup mounts

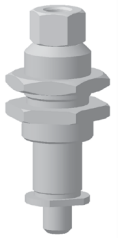




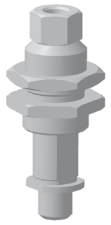
RCM-	40-	…	…	…
		W-	NR-	A
	↓			
	Travel [mm]: 19	↓	↓	↓
	Travel [mm]: 40			
	Travel [mm]: 75			
	Travel [mm]: 95			
		Spring strength [mm]: … = medium		
		Spring strength [mm]: W = soft		
			Rotation lock: … = without	
			Rotation lock: NR = with	
				Cup mount: … = G 3/8
				Cup mount: A = G 1/4

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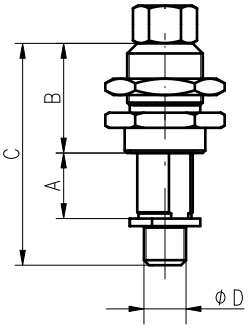
Spring cup mounts

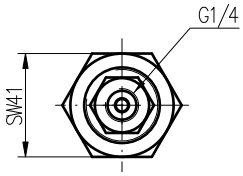


RCM-19
Material: Aluminium



RCM-19-NR
Material: Aluminium





non rotating

Part no.	A Travel	B	C	D	(kg)
RCM-19-NR	19	43.5	88.0	G 3/8	0.17
RCM-19-NR-A	19	43.5	88.0	G 1/4	0.17
RCM-19-W-NR	19	43.5	88.0	G 3/8	0.17
RCM-19-W-NR-A	19	43.5	88.0	G 1/4	0.17
RCM-40-NR	40	82.5	145.5	G 3/8	0.25
RCM-40-NR-A	40	82.5	145.5	G 1/4	0.25
RCM-40-W-NR	40	82.5	145.5	G 3/8	0.25
RCM-40-W-NR-A	40	82.5	145.5	G 1/4	0.25
RCM-75-NR	75	142.0	246.5	G 3/8	0.32
RCM-75-NR-A	75	142.0	246.5	G 1/4	0.32
RCM-75-W-NR	75	142.0	246.5	G 3/8	0.32
RCM-75-W-NR-A	75	142.0	246.5	G 1/4	0.32
RCM-95-NR	95	142.0	261.0	G 3/8	0.47
RCM-95-NR-A	95	142.0	261.0	G 1/4	0.47
RCM-95-W-NR	95	142.0	261.0	G 3/8	0.47
RCM-95-W-NR-A	95	142.0	261.0	G 1/4	0.47

rotating

Part no.	A Travel	B	C	D	(kg)
RCM-19	19	43.5	88.0	G 3/8	0.17
RCM-19-A	19	43.5	88.0	G 1/4	0.17
RCM-19-W	19	43.5	88.0	G 3/8	0.17
RCM-19-W-A	19	43.5	88.0	G 1/4	0.17
RCM-40	40	82.5	145.5	G 3/8	0.25
RCM-40-A	40	82.5	145.5	G 1/4	0.25
RCM-40-W	40	82.5	145.5	G 3/8	0.25
RCM-40-W-A	40	82.5	145.5	G 1/4	0.25
RCM-75	75	142.0	246.5	G 3/8	0.32
RCM-75-A	75	142.0	246.5	G 1/4	0.32
RCM-75-W	75	142.0	246.5	G 3/8	0.32
RCM-75-W-A	75	142.0	246.5	G 1/4	0.32
RCM-95	95	142.0	261.5	G 3/8	0.47
RCM-95-W	95	142.0	261.5	G 1/4	0.47
RCM-95-A	95	142.0	261.5	G 3/8	0.47
RCM-95-W-A	95	142.0	261.5	G 1/4	0.47

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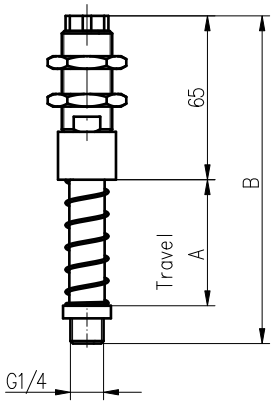
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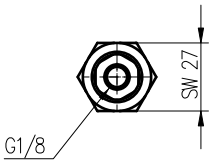
Vacuum cups and connections

Spring cup mounts



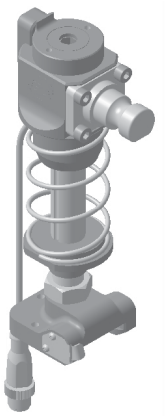
Material: Aluminium



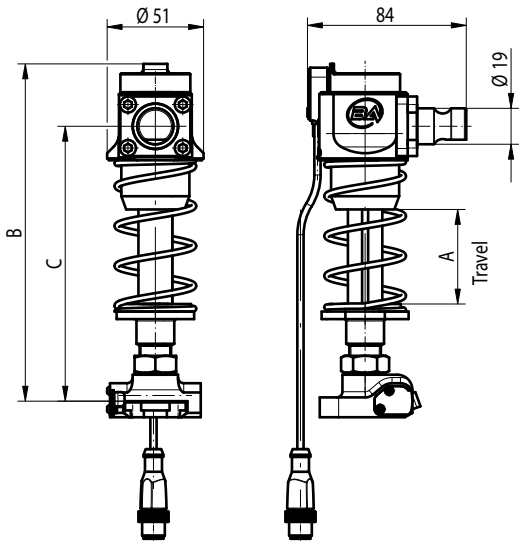


Part no.	A	B	(kg)
RCMA-M20-G14a-50	50	130	0.221
RCMA-M20-G14a-70	70	150	0.237

Spring cup mounts, with crash control



Material: Aluminium



Part no.	A Travel	B	C	(kg)
RCMA-C-50-NR-ACK-AB19-V7	50	209.3	145.4	0.758
RCMA-C-100-NR-ACK-AB19-V7	100	259.3	195.4	0.860

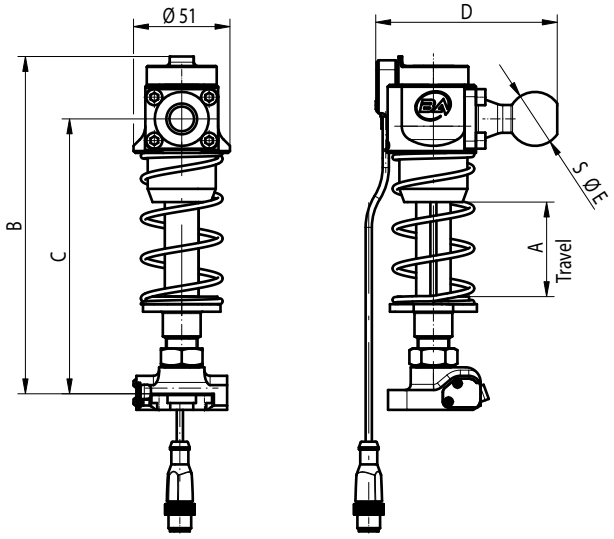
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Spring cup mounts, with crash control

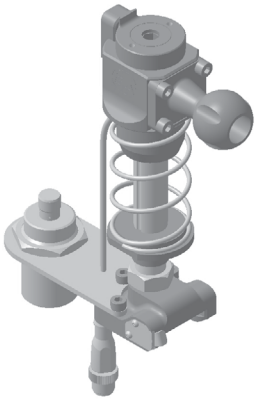


Material: Aluminium

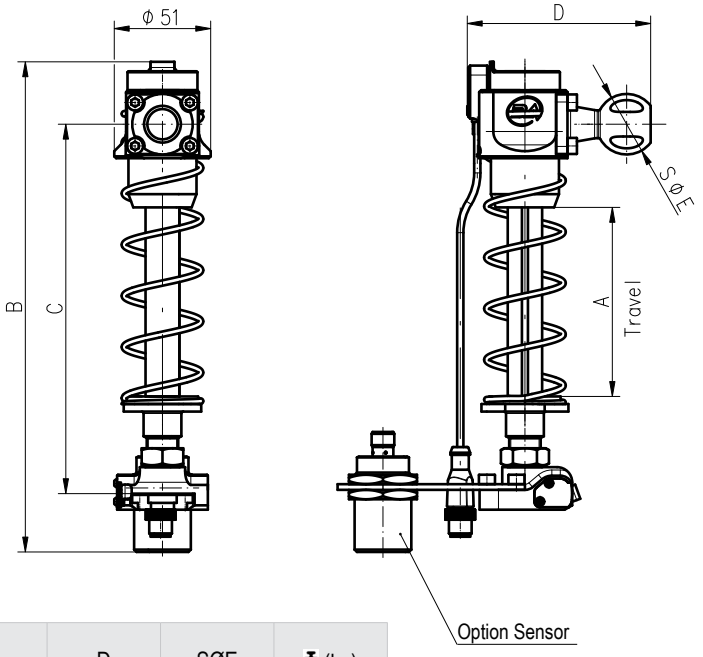


Part no.	A Travel	B	C	D	SØE	(kg)
RCMA-C-50-NR-ACK-AK28-V7	50	209.3	145.4	96	28.5	0.778
RCMA-C-100-NR-ACK-AK28-V7	100	259.3	195.4			0.877
RCMA-C-50-NR-ACK-AK32-V7	50	209.3	145.4	96	32.0	0.783
RCMA-C-100-NR-ACK-AK32-V7	100	259.3	195.4			0.883

Spring cup mounts, with crash control and inductive sensor



Material: Aluminium



Part no.	A Travel	B	C	D	SØE	(kg)
RCMA-C-50-NR-ACK-AK28-SG-V7	50	209.3	145.4	96	28.5	0.968
RCMA-C-100-NR-ACK-AK28-SG-V7	100	259.3	195.4			1.078
RCMA-C-50-NR-ACK-AK32-SG-V7	50	209.3	145.4	96	32.0	0.973
RCMA-C-100-NR-ACK-AK32-SG-V7	100	259.3	195.4			1.084

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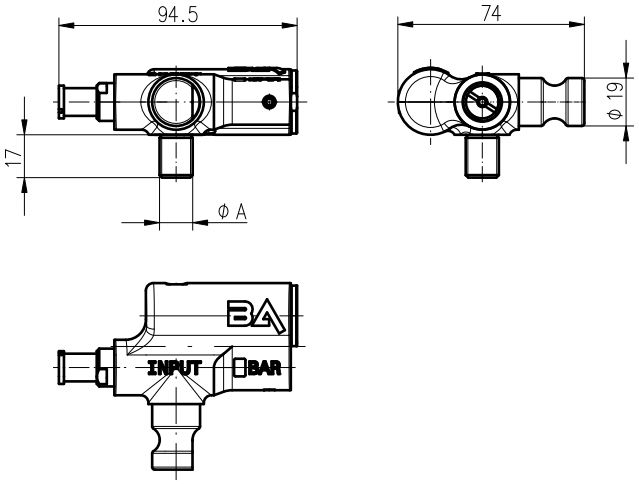
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Vacuum cups and connections

Venturi automatic ventilation



Material: Aluminium

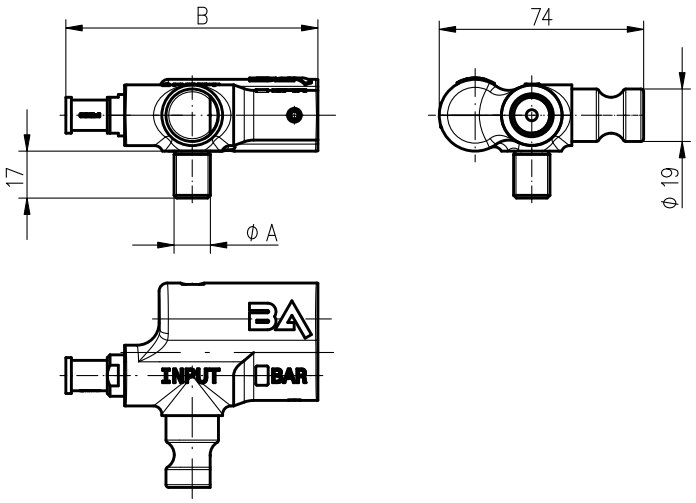


Part no.	Ø A	(kg)
VMA-19-ABO3-G1/4	G 1/4	0.130
VMA-19-ABO3-G3/8	G 3/8	0.164

Venturi pneumatic ventilation



Material: Aluminium

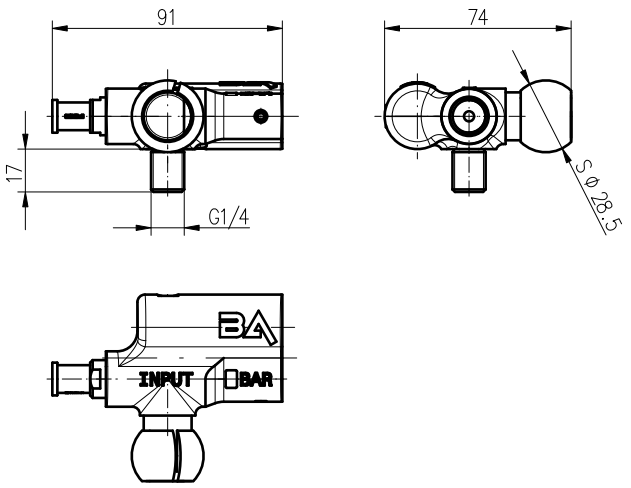


Part no.	Ø A	B	(kg)
VMA-19-MBO6-G1/4	G 1/4	91.25	0.155
VMA-19-MBO6-G3/8	G 3/8	91.5	0.164

Venturi pneumatic ventilation



0.2 kg
Material: Aluminium



Part no.
VMA-K28-MBO6-G1/4

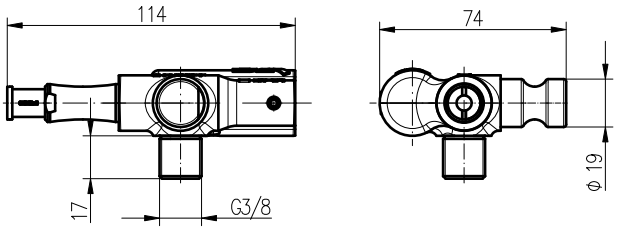
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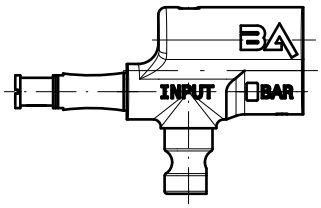
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Venturi pneumatic ventilation



0.151 kg
Material: Aluminium



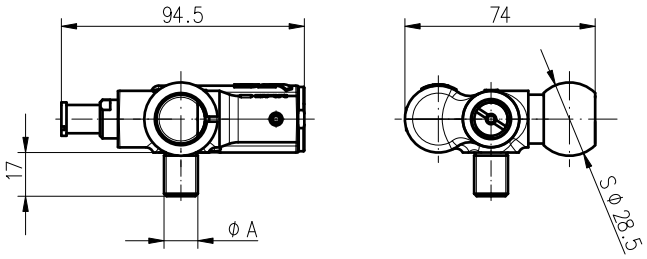


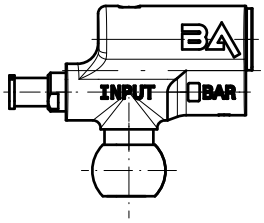
Part no.
VMA-19-MBO6-SI-G3/8

Venturi automatic ventilation



Material: Aluminium

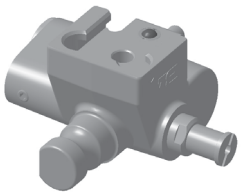




Part no.	Ø A	(kg)
VMA-19-ABO3-G1/4	G 1/4	0.162
VMA-19-ABO3-G3/8	G 3/8	0.164

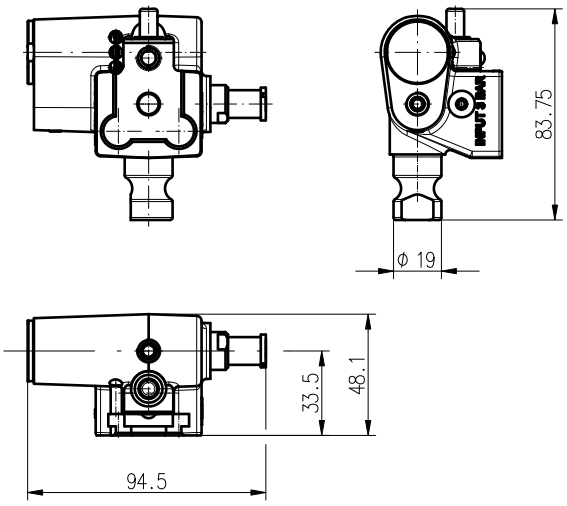
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Venturi automatic ventilation

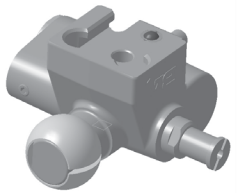


0.26 kg
Material: Aluminium

Part no.
VMA-19-ABO6-C

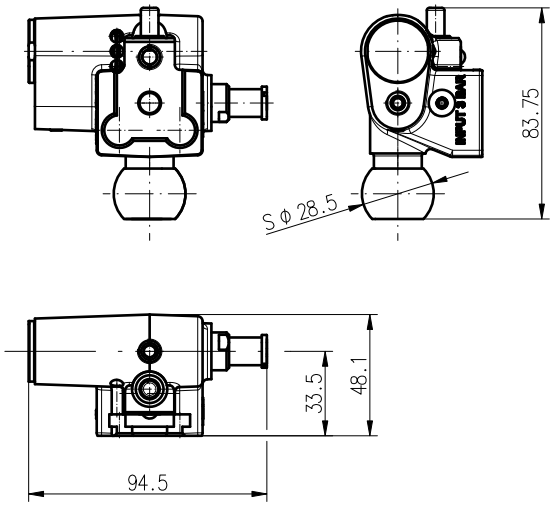


Venturi automatic ventilation

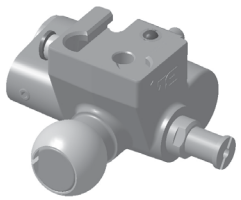


0.32 kg
Material: Aluminium

Part no.
VMA-K28-ABO-C

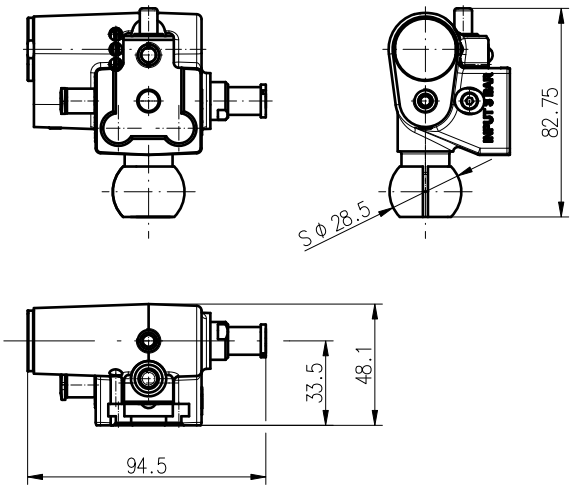


Venturi automatic ventilation



0.35 kg
Material: Aluminium

Part no.
VMA-K28-ABO3-C-VAF



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Venturi, Technical Data

Technical Data

Description	Unit	Value
Feed pressure. max.	MPA	0.7
Temperature range	°C	-10...80
Weight	g	ca. 160
Material		AL, NBR, PA, SS

Conversion

Pressure bar	Value
1	100.000 Pa
1	100 kPa
1	0.1m Pa

Vacuum flow

Feed pressure	Air consumption	Vacuum flow (Nl*/s) at different vacuum levels (-kPa)									Max. Vacuum
MPa	Nl/s	0	10	20	30	40	50	60	70	80	-kPa
0.17	0.29	0.57	0.40	0.22	0.15	0.07	-	-	-	-	49
0.22	0.34	0.64	0.48	0.29	0.20	0.14	0.08	0.02	-	-	64
0.314	0.44	0.68	0.60	0.44	0.27	0.19	0.14	0.10	0.06	0.03	90

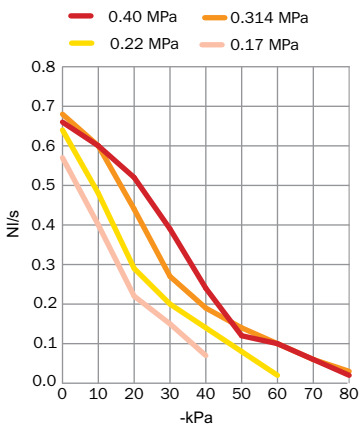
Evacuation time

Feed pressure	Air consumption	Evacuation time (Nl*/s) to reach different vacuum levels (-kPa)								Max. Vacuum
MPa	Nl/s	10	20	30	40	50	60	70	80	-kPa
0.17	0.29	0.28	0.56	1.13	2.13	-	-	-	-	49
0.22	0.34	0.20	0.42	0.85	1.50	2.30	3.00	-	-	64
0.314	0.44	0.17	0.32	0.58	1.10	1.80	2.70	4.00	6.40	90

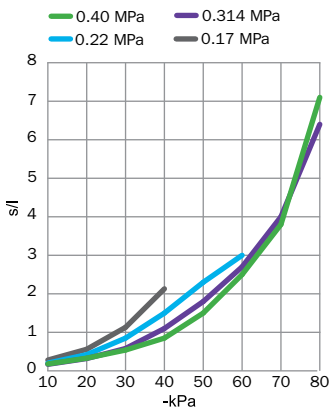
Blow flow

Feed pressure	Air consumption	Blow off (Nl*/s) at different pressure levels (-kPa)												Max. Vakuum
MPa	Nl/s	0	20	40	60	70	80	90	100	110	120	130	140	-kPa
0.6	0.75	1.37	1.36	1.13	1.12	1.03	1.03	1.03	1.03	1.00	0.95	0.86	0.79	1.40

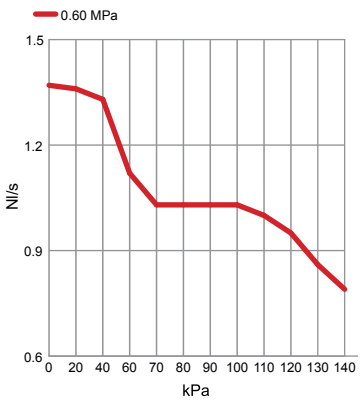
Vacuum flow



Evacuation time



Blow off



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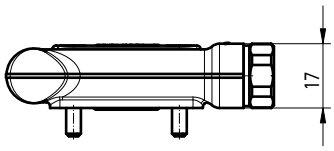
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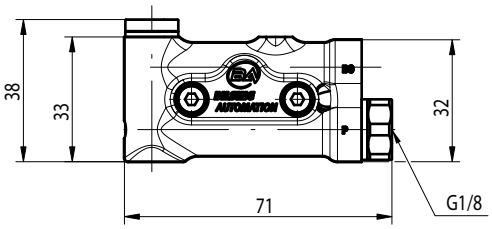
Venturi, blow off, low air



0.095kg
Material: Aluminium

Part no.
VMA-BO6



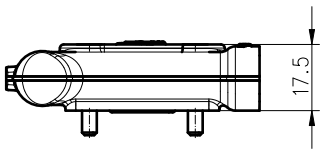


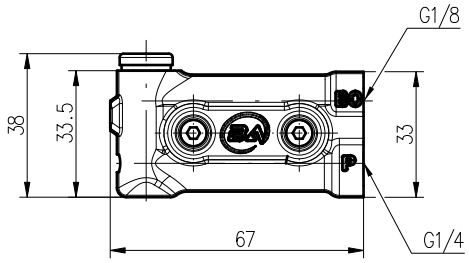
Venturi with bypass, blow off



0.084 kg
Material: Aluminium

Part no.
VMA-BO6-BP



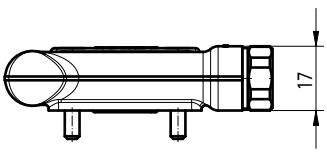


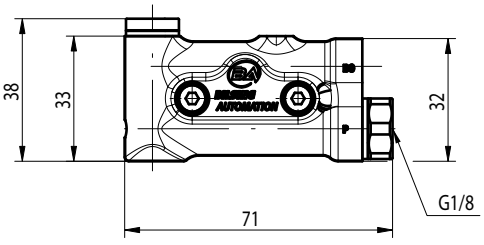
Venturi, blow off, low air



0.095 kg
Material: Aluminium

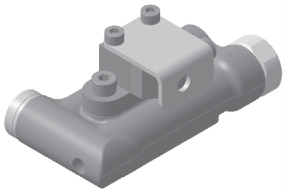
Part no.
VMA-MBO6

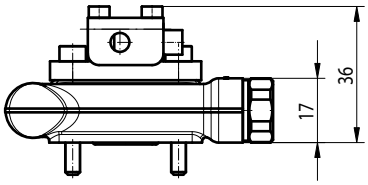


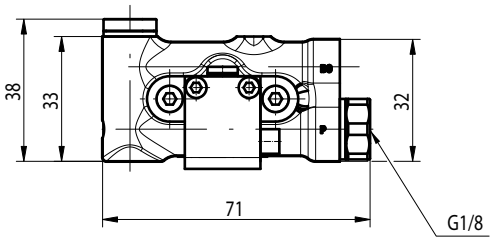


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Venturi with electric vacuum query



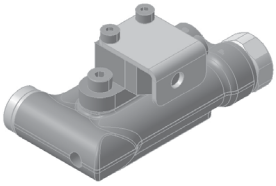


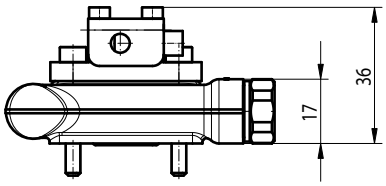


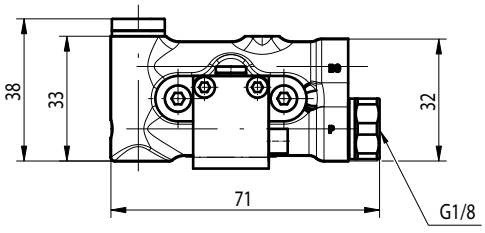
0.115 kg
Material: Aluminium

Part no.
VMA-BO6-EVAF

Venturi with electric vacuum query, low air







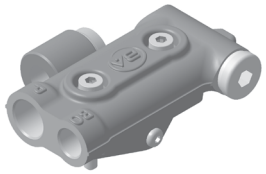
0.107 kg
Material: Aluminium

Part no.
VMA-MBO6-EVAF

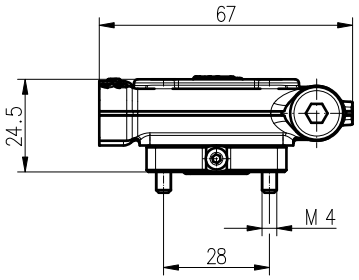
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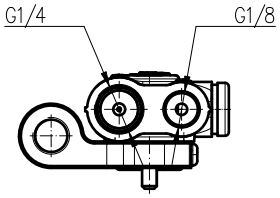
Vacuum cups and connections

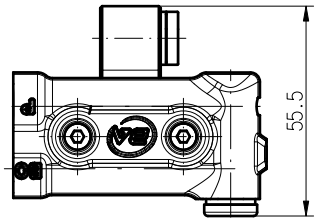
Venturi with holder for sensor support, left



0.119 kg
Material: Aluminium





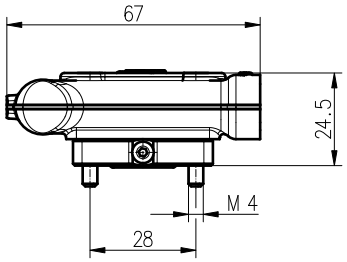


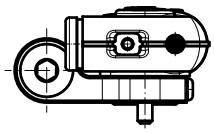
Part no.
VMA-BO6-BP-S-L

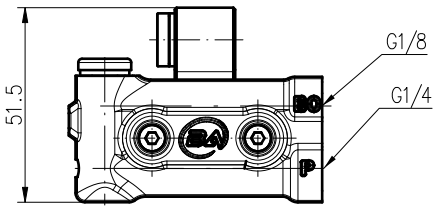
Venturi with holder for sensor support, right



0.119 kg
Material: Aluminium



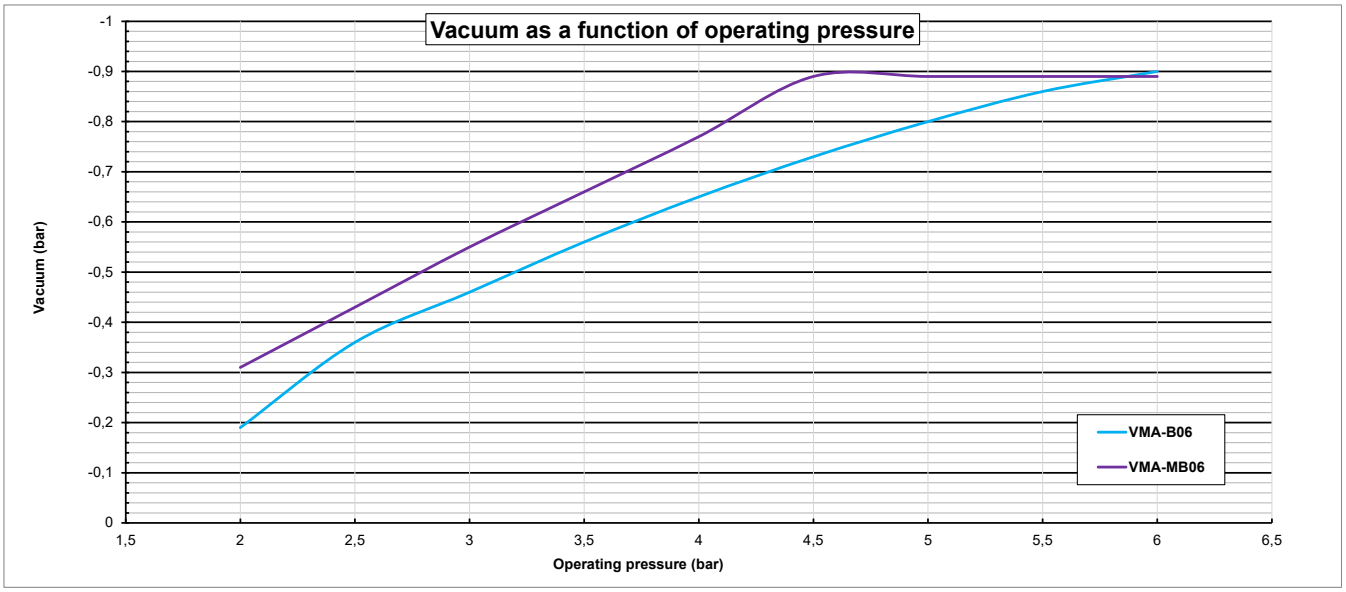


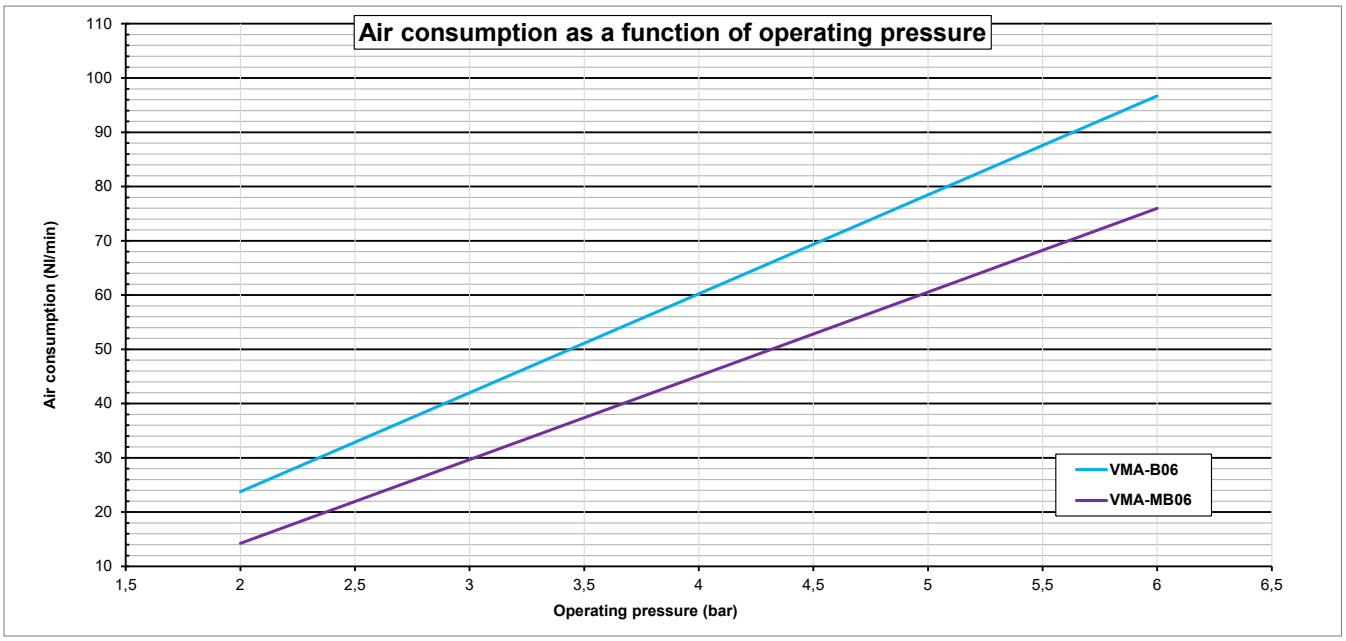


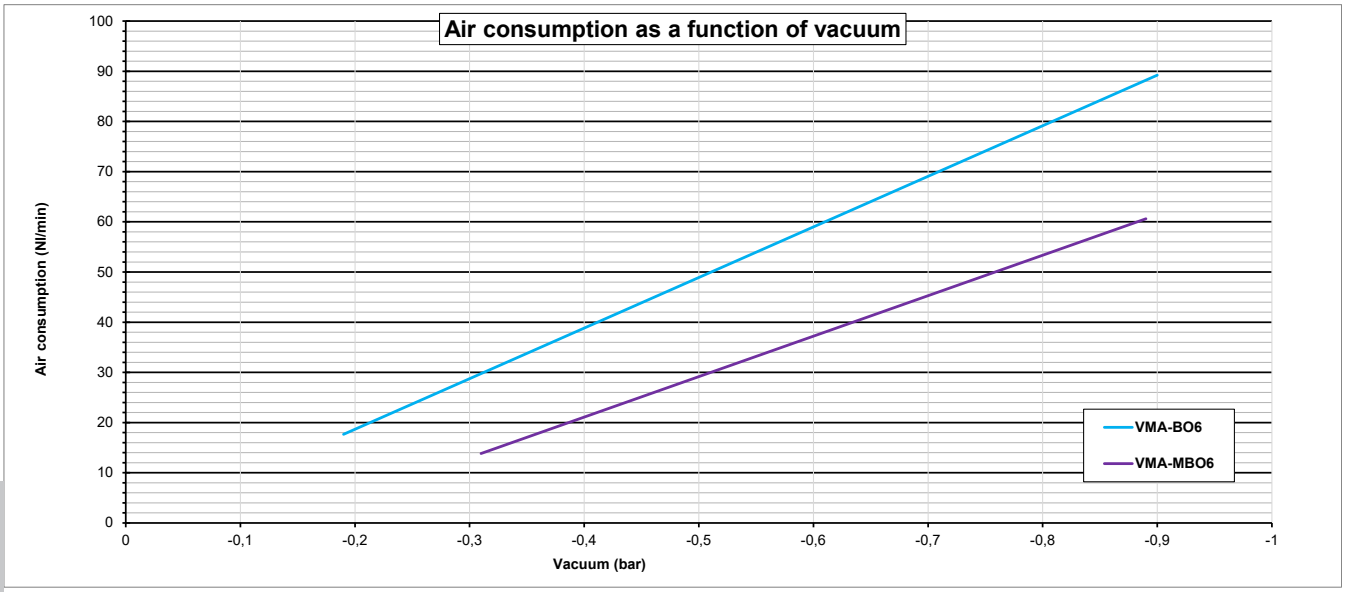
Part no.
VMA-BO6-BP-S-R

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Venturi, Technical Data

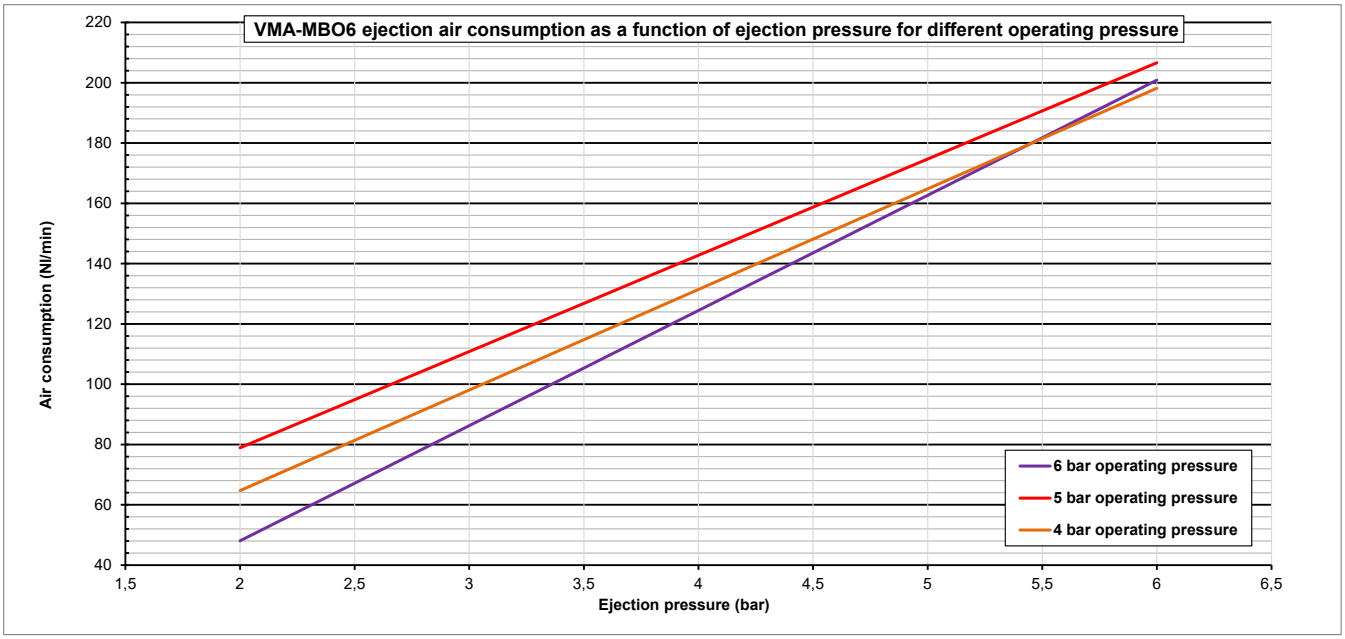


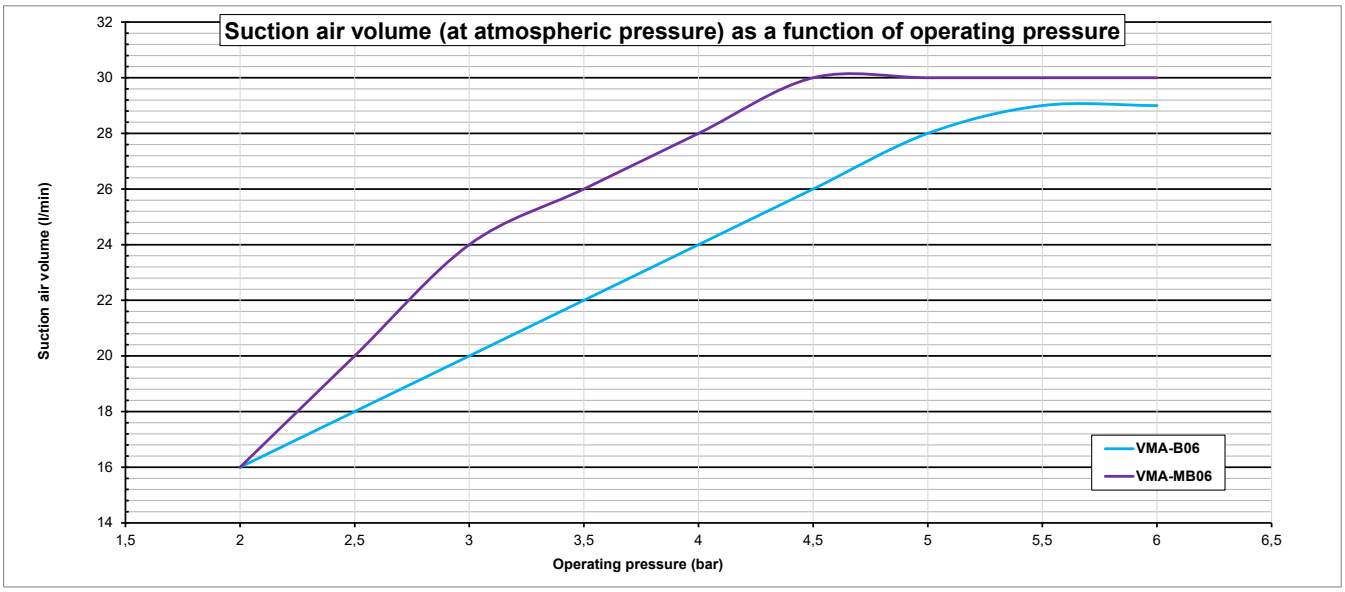




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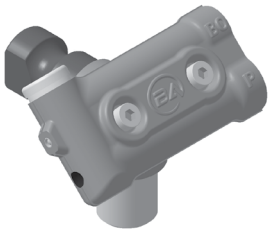
Venturi, Technical Data



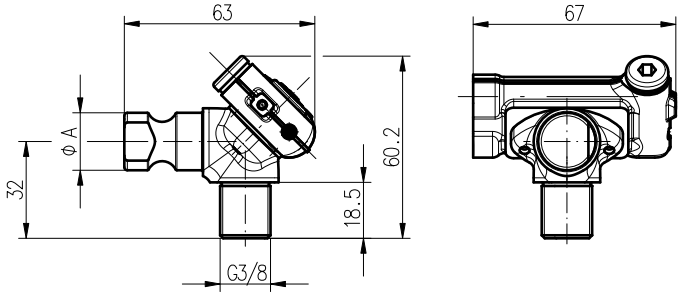


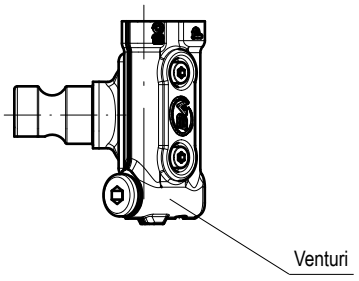
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Adapter with venturi, left



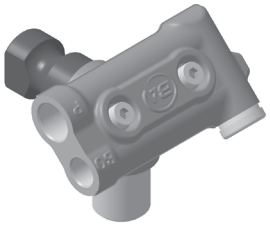
Material: aluminum



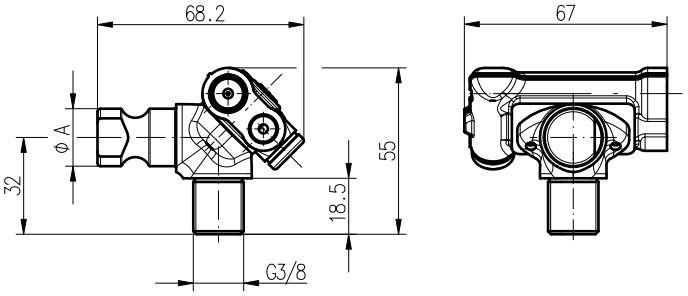


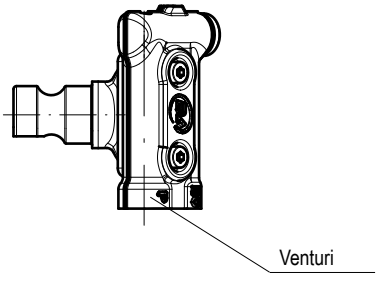
Part no.	Ø A	Venturi	(kg)
VMA-B19-BO6-G38a-L	19	VMA-BO6	0.144
VMA-B20-BO6-G38a-L	20		0.147
VMA-B19-BO6-BP-G38a-L	19	VMA-BO6-BP	0.133
VMA-B20-BO6-BP-G38a-L	20		0.133
VMA-B19-MBO6-G38a-L	19	VMA-MBO6	0.137
VMA-B20-MBO6-G38a-L	20		0.140

Adapter with venturi, right



Material: aluminum





Part no.	Ø A	Venturi	(kg)
VMA-B19-BO6-G38a-R	19	VMA-BO6	0.144
VMA-B20-BO6-G38a-R	20		0.147
VMA-B19-BO6-BP-G38a-R	19	VMA-BO6-BP	0.133
VMA-B20-BO6-BP-G38a-R	20		0.133
VMA-B19-MBO6-G38a-R	19	VMA-MBO6	0.137
VMA-B20-MBO6-G38a-R	20		0.140

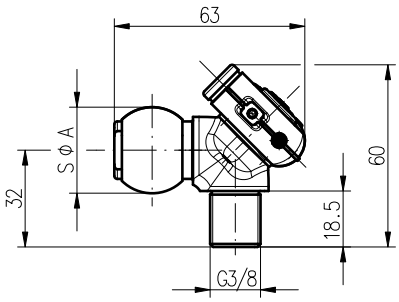
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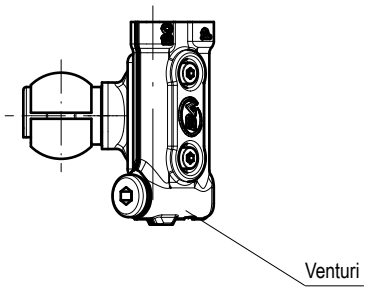
Vacuum cups and connections

Adapter with venturi, left



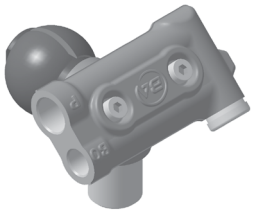
Material: Aluminium



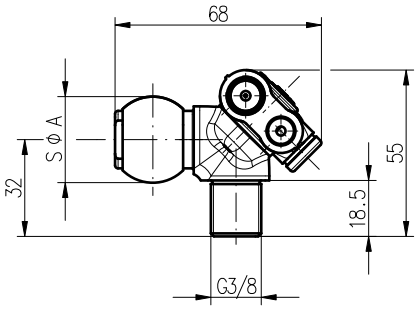


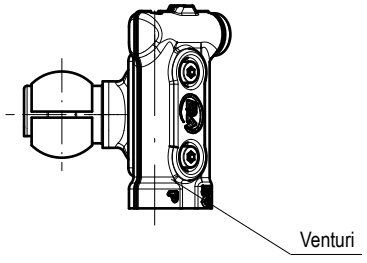
Part no.	S Ø A	Venturi	(kg)
VMA-K28-BO6-G38a-L	28.5	VMA-BO6	0.162
VMA-K32-BO6-G38a-L	32.0		0.168
VMA-K28-BO6-BP-G38a-L	28.5	VMA-BO6-BP	0.146
VMA-K32-BO6-BP-G38a-L	32.0		0.158
VMA-K28-MBO6-G38a-L	28.5	VMA-MBO6	0.162
VMA-K32-MBO6-G38a-L	32.0		0.168

Adapter with venturi, right



Material: Aluminium



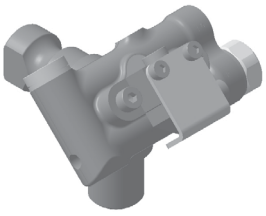


Part no.	S Ø A	Venturi	(kg)
VMA-K28-BO6-G38a-R	28.5	VMA-BO6	0.162
VMA-K32-BO6-G38a-R	32.0		0.168
VMA-K28-BO6-BP-G38a-R	28.5	VMA-BO6-BP	0.146
VMA-K32-BO6-BP-G38a-R	32.0		0.158
VMA-K28-MBO6-G38a-R	28.5	VMA-MBO6	0.162
VMA-K32-MBO6-G38a-R	32.0		0.168

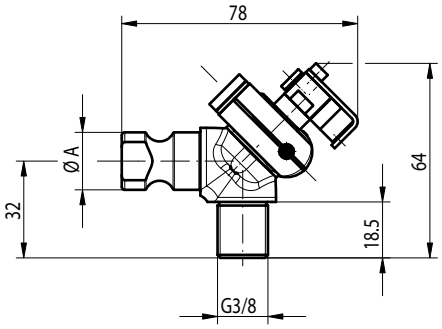
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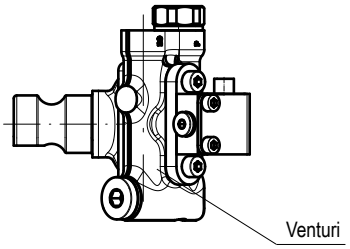
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Adapter with venturi and electric vacuum query, left



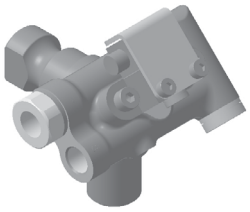
Material: aluminum



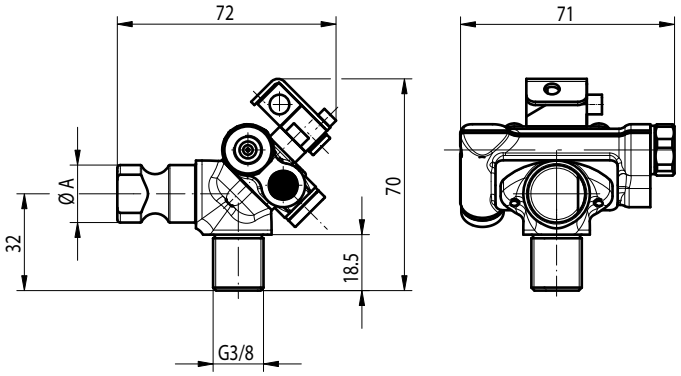


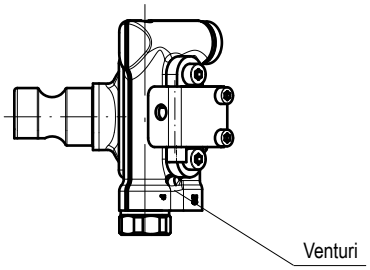
Part no.	Ø A	Venturi	(kg)
VMA-B19-BO6-G38a-L-EVAF	19	VMA-BO6-EVAF	0.164
VMA-B20-BO6-G38a-L-EVAF	20		0.156
VMA-B19-MBO6-G38a-L-EVAF	19	VMA-MBO6-EVAF	0.156
VMA-B20-MBO6-G38a-L-EVAF	20		0.159

Adapter with venturi and electric vacuum query, right



Material: aluminum



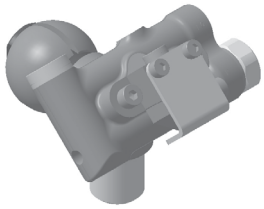


Part no.	Ø A	Venturi	(kg)
VMA-B19-BO6-G38a-R-EVAF	19	VMA-BO6-EVAF	0.164
VMA-B20-BO6-G38a-R-EVAF	20		0.156
VMA-B19-MBO6-G38a-R-EVAF	19	VMA-MBO6-EVAF	0.156
VMA-B20-MBO6-G38a-R-EVAF	20		0.159

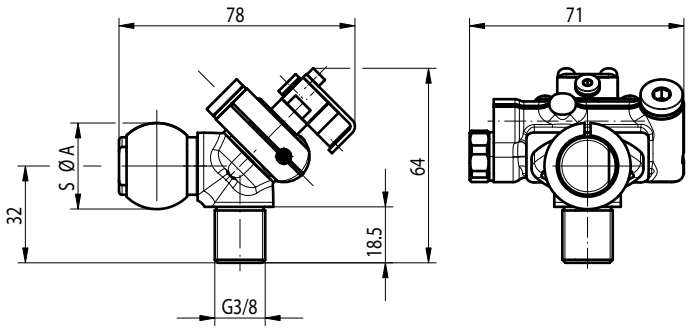
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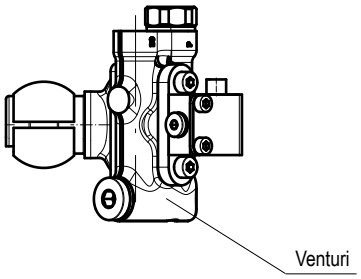
Vacuum cups and connections

Adapter with venturi and electric vacuum query, left



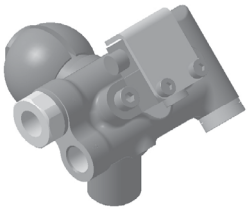
Material: aluminum



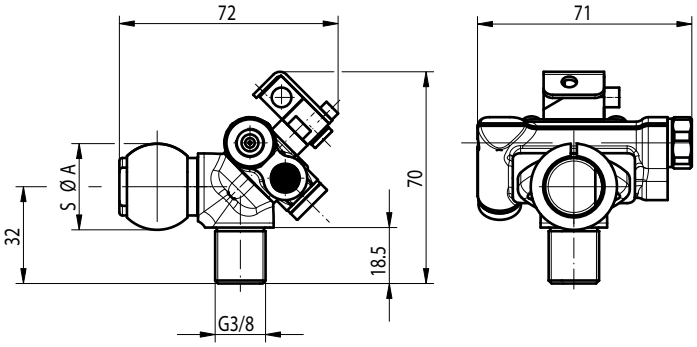


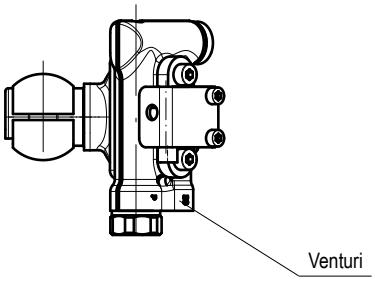
Part no.	S Ø A	Venturi	(kg)
VMA-K28-BO6-G38a-L-EVAF	28.5	VMA-BO6-EVAF	0.177
VMA-K32-BO6-G38a-L-EVAF	32.0		0.189
VMA-K28-MBO6-G38a-L-EVAF	28.5	VMA-MBO6-EVAF	0.170
VMA-K32-MBO6-G38a-L-EVAF	32.0		0.181

Adapter with venturi and electric vacuum query, right



Material: aluminum





Part no.	S Ø A	Venturi	(kg)
VMA-K28-BO6-G38a-R-EVAF	28.5	VMA-BO6-EVAF	0.177
VMA-K32-BO6-G38a-R-EVAF	32.0		0.189
VMA-K28-MBO6-G38a-R-EVAF	28.5	VMA-MBO6-EVAF	0.170
VMA-K32-MBO6-G38a-R-EVAF	32.0		0.181

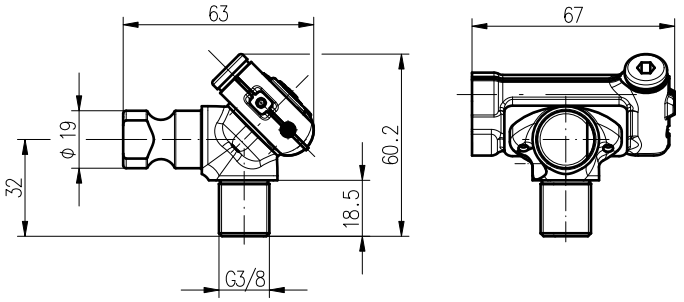
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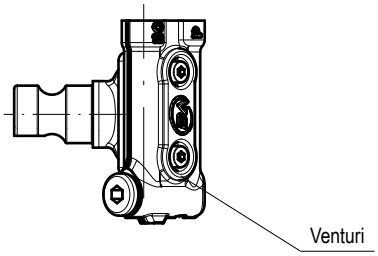
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Adapter with Venturi and vacuum detection, left



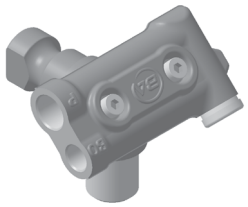
Material: Aluminium



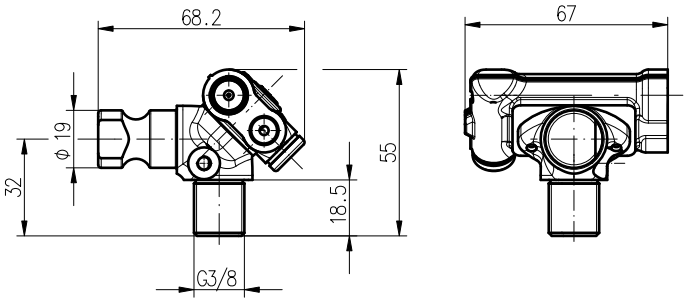


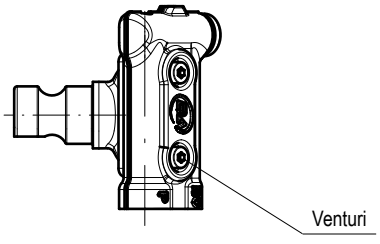
Part no.	Venturi	(kg)
VMA-B19-BO6-G38a-L-VAF	VMA-BO6	0.143
VMA-B19-BO6-BP-G38a-L-VAF	VMA-BO6-BP	0.132
VMA-B19-MBO6-G38a-L-VAF	VMA-MBO6	0.136

Adapter with Venturi and vacuum detection, right



Material: Aluminium



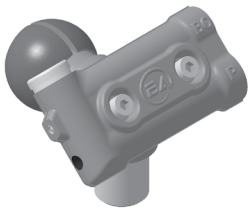


Part no.	Venturi	(kg)
VMA-B19-BO6-G38a-R-VAF	VMA-BO6	0.143
VMA-B19-BO6-BP-G38a-R-VAF	VMA-BO6-BP	0.132
VMA-B19-MBO6-G38a-R-VAF	VMA-MBO6	0.136

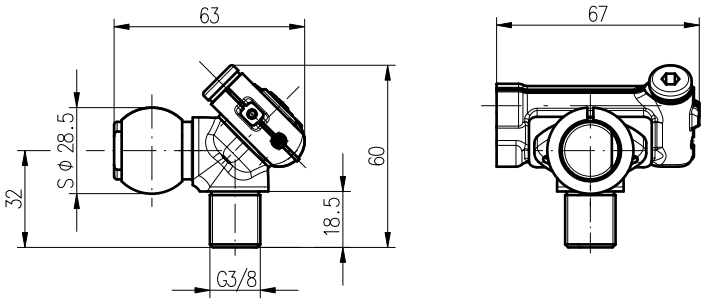
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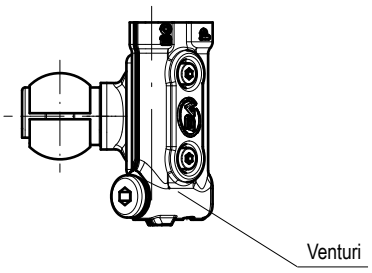
Vacuum cups and connections

Adapter with Venturi and vacuum detection, left



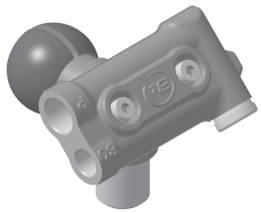
Material: Aluminium



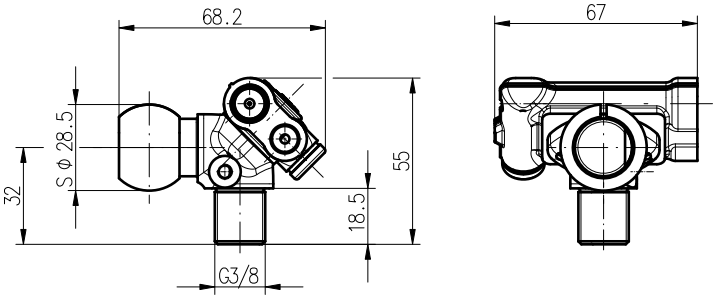


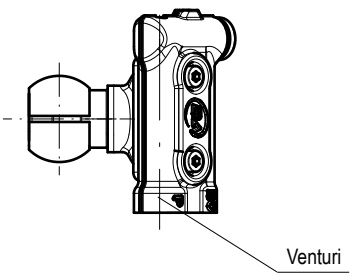
Part no.	Venturi	(kg)
VMA-K28-BO6-G38a-L-VAF	VMA-BO6	0.157
VMA-K28-BO6-BP-G38a-L-VAF	VMA-BO6-BP	0.145
VMA-K28-MBO6-G38a-L-VAF	VMA-MBO6	0.149

Adapter with Venturi and vacuum detection, right



Material: Aluminium



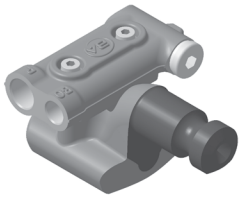


Part no.	Venturi	(kg)
VMA-K28-BO6-G38a-R-VAF	VMA-BO6	0.157
VMA-K28-BO6-BP-G38a-R-VAF	VMA-BO6-BP	0.145
VMA-K28-MBO6-G38a-R-VAF	VMA-MBO6	0.149

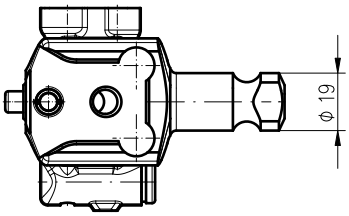
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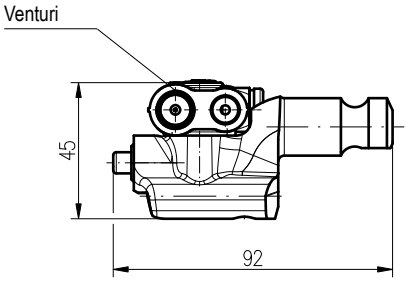
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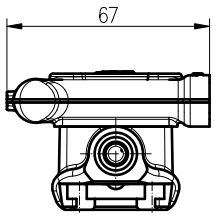
Port only adapter with venturi for vacuum cups with C-mount, left



Material: Aluminium

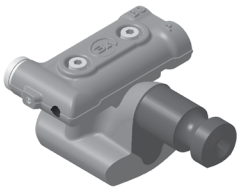




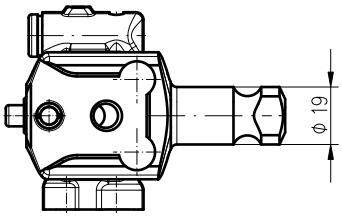


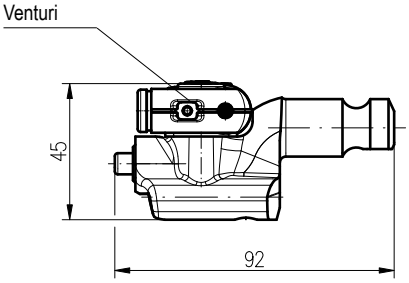
Part no.	Venturi	(kg)
VMA-B19-BO6-C-DB-L	VMA-BO6	0.209
VMA-B19-BO6-BP-C-DB-L	VMA-BO6-BP	0.197
VMA-B19-MBO6-C-DB-L	VMA-MBO6	0.201

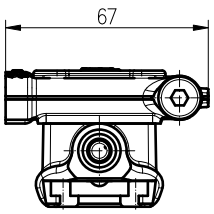
Port only adapter with venturi for vacuum cups with C-mount, right



Material: Aluminium



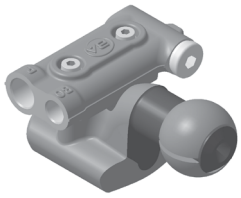




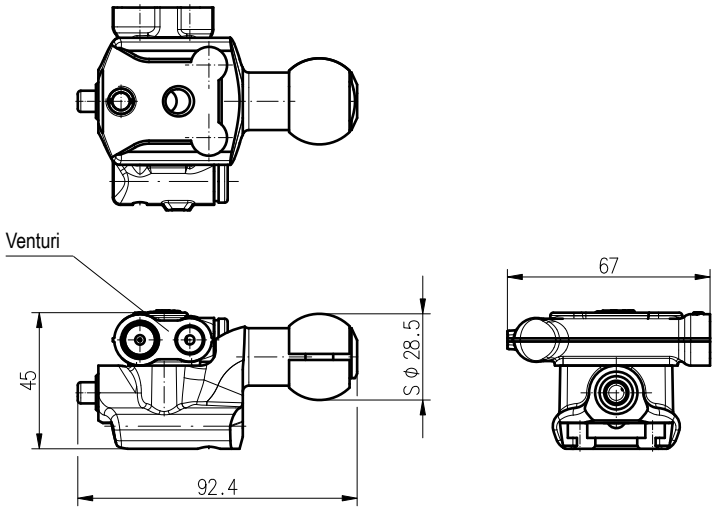
Part no.	Venturi	(kg)
VMA-B19-BO6-C-DB-R	VMA-BO6	0.209
VMA-B19-BO6-BP-C-DB-R	VMA-BO6-BP	0.197
VMA-B19-MBO6-C-DB-R	VMA-MBO6	0.201

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Port only adapter with Venturi with C-mount & vacuum detection, left



Material: Aluminium

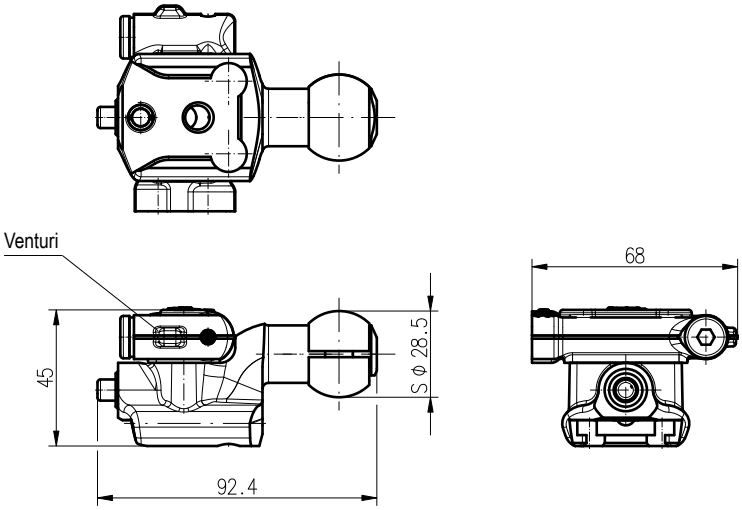


Part no.	Venturi	(kg)
VMA-K28-BO6-C-DB-L	VMA-BO6	0.222
VMA-K28-BO6-BP-C-DB-L	VMA-BO6-BP	0.210
VMA-K28-MBO6-C-DB-L	VMA-MBO6	0.214

Port only adapter with Venturi with C-mount & vacuum detection, right



Material: Aluminium

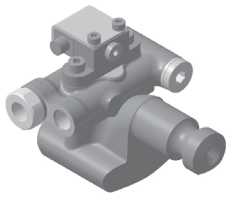


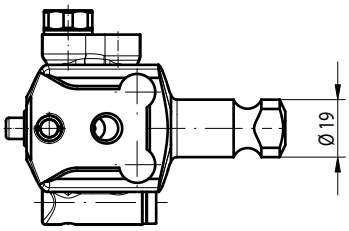
Part no.	Venturi	(kg)
VMA-K28-BO6-C-DB-R	VMA-BO6	0.222
VMA-K28-BO6-BP-C-DB-R	VMA-BO6-BP	0.210
VMA-K28-MBO6-C-DB-R	VMA-MBO6	0.214

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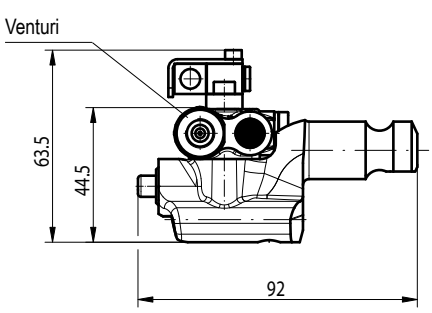
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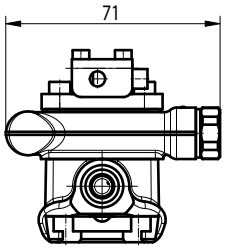
Port Only Adapter with Venuri for Vacuum Cups with C mount venturi & electric vacuum query, Left





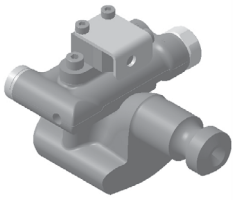
Material: Aluminium

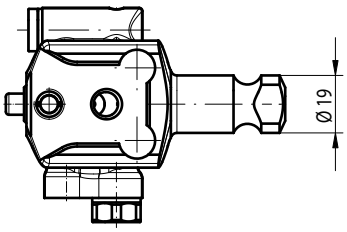




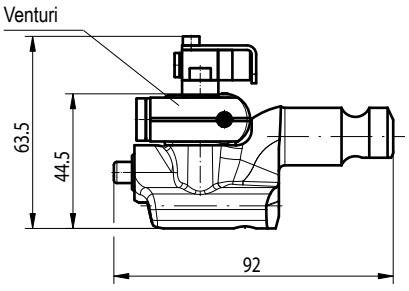
Part no.	Venturi	♟ (kg)
VMA-B19-BO6-C-DB-L-EVAF	VMA-BO6-EVAF	0.241
VMA-B19-MBO6-C-DB-L-EVAF	VMA-MBO6-EVAF	0.234

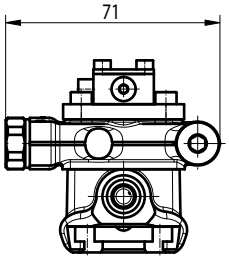
Port Only Adapter with Venuri for Vacuum Cups with C mount venturi & electric vacuum query, Right





Material: Aluminium



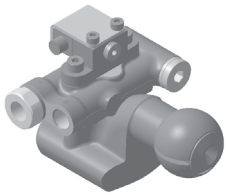


Part no.	Venturi	♟ (kg)
VMA-B19-BO6-C-DB-R-EVAF	VMA-BO6-EVAF	0.241
VMA-B19-MBO6-C-DB-R-EVAF	VMA-MBO6-EVAF	0.234

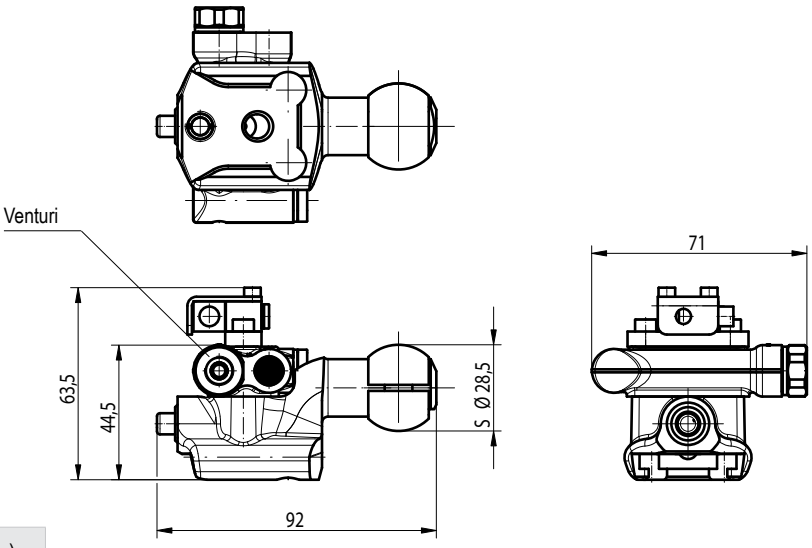
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Vacuum cups and connections

Port Only Adapter with Venuri for Vacuum Cups with C mount venturi & electric vacuum query, Left

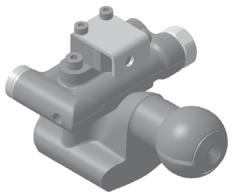


Material: Aluminium

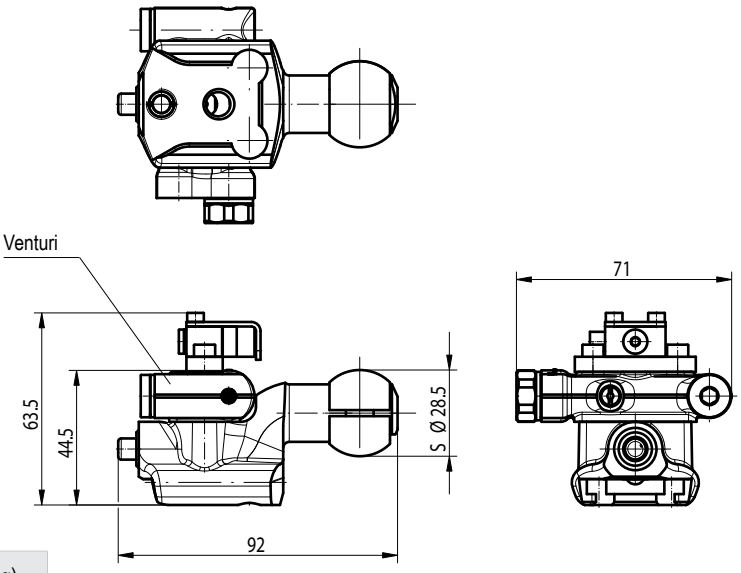


Part no.	Venturi	(kg)
VMA-K28-BO6-C-DB-L-EVAF	VMA-BO6-EVAF	0.241
VMA-K28-MBO6-C-DB-L-EVAF	VMA-MBO6-EVAF	0.234

Port Only Adapter with Venuri for Vacuum Cups with C mount venturi & electric vacuum query, Right



Material: Aluminium

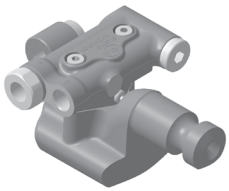


Part no.	Venturi	(kg)
VMA-K28-BO6-C-DB-R-EVAF	VMA-BO6-EVAF	0.241
VMA-K28-MBO6-C-DB-R-EVAF	VMA-MBO6-EVAF	0.234

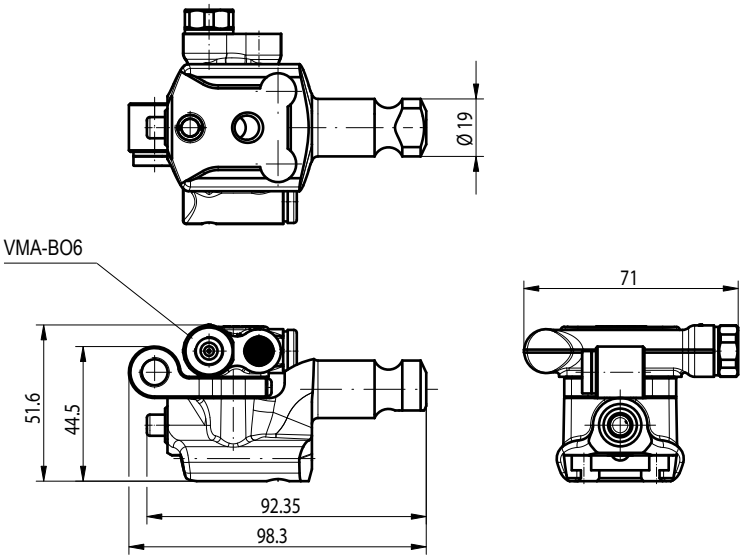
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Port only adapter with venturi for vacuum cups with C-mount, left

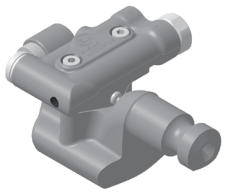


0.244 kg
Material: Aluminium

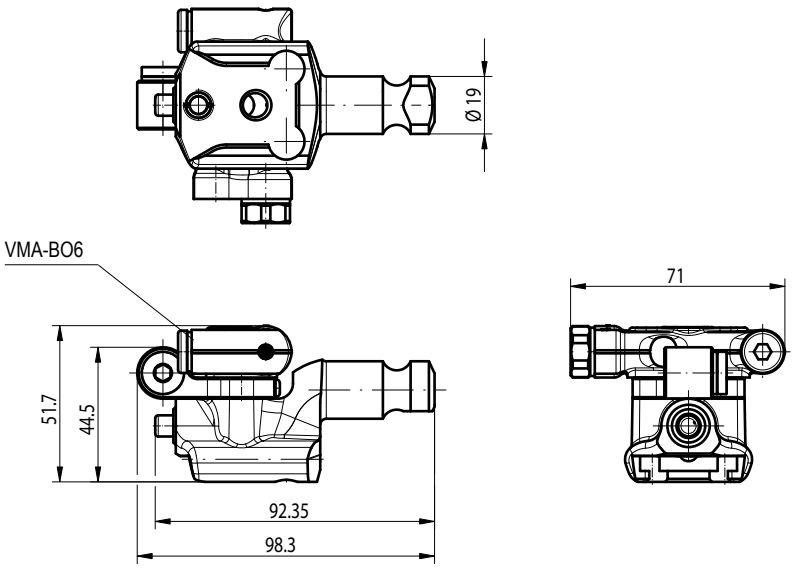


Part no.
VMA-B19-BO6-C-DB-S-L

Port only adapter with venturi for vacuum cups with C-mount, right



0.244 kg
Material: Aluminium

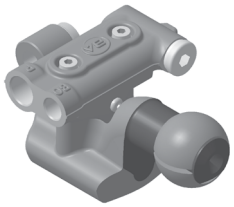


Part no.
VMA-B19-BO6-C-DB-S-R

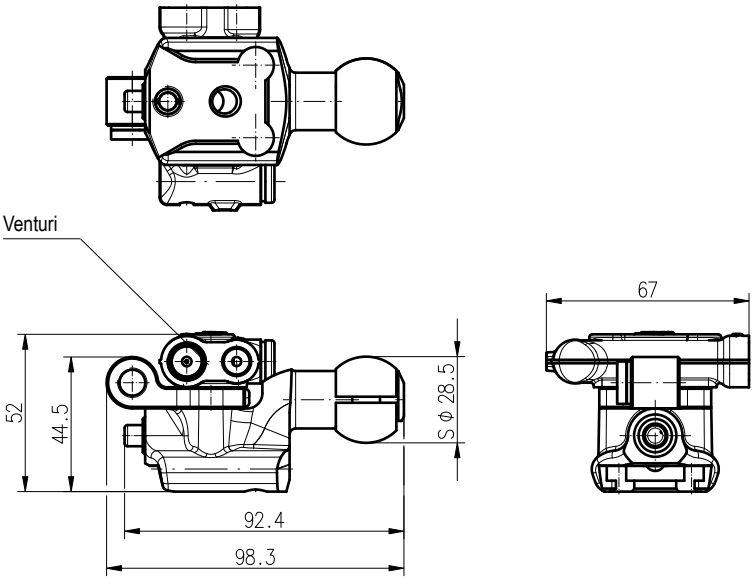
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Vacuum cups and connections

Port only adapter with venturi for vacuum cups with C-mount, left



Material: Aluminium

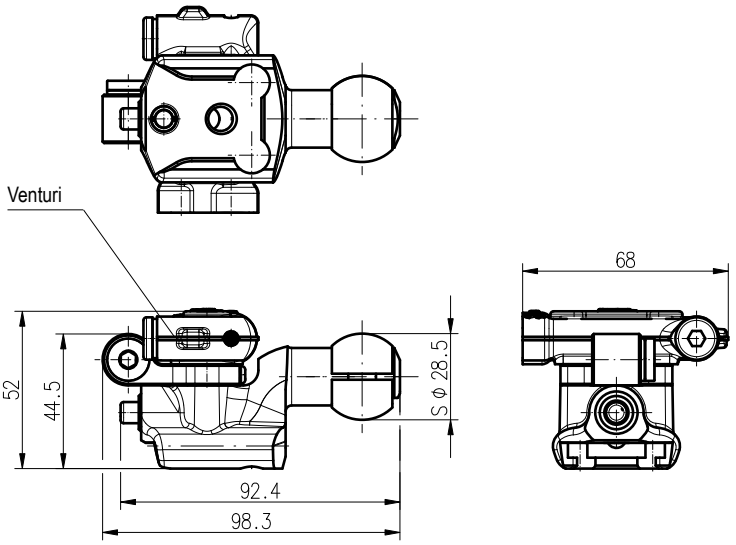


Part no.	Venturi	(kg)
VMA-K28-BO6-C-DB-S-L	VMA-BO6	0.257
VMA-K28-BO6-BP-C-DB-S-L	VMA-BO6-BP	0.246

Port only adapter with venturi for vacuum cups with C-mount, right



Material: Aluminium



Part no.	Venturi	(kg)
VMA-K28-BO6-C-DB-S-R	VMA-BO6	0.257
VMA-K28-BO6-BP-C-DB-S-R	VMA-BO6-BP	0.246

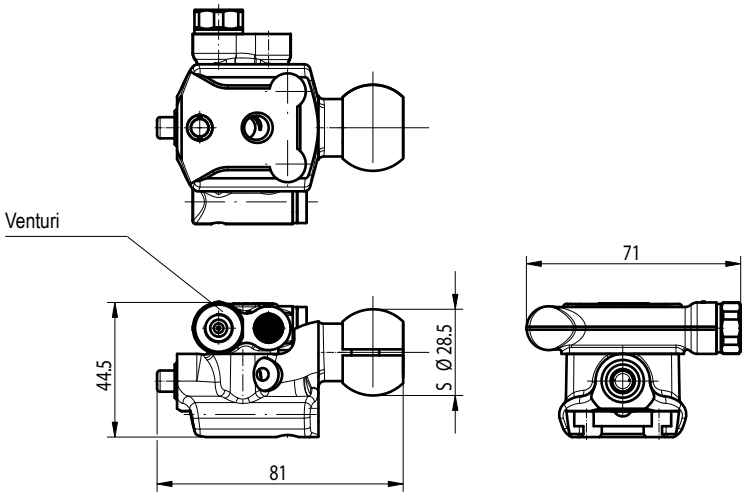
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Port Only Adapter with Venuri for Vacuum Cups with C mount venturi & vacuum detection, left



Material: Aluminium

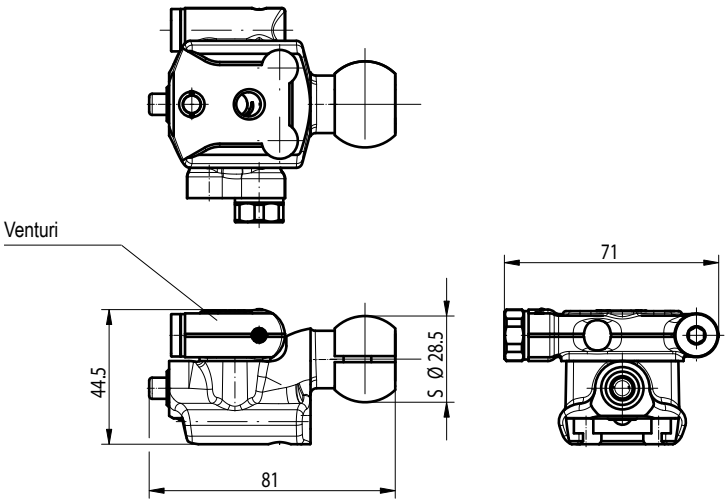


Part no.	Venturi	(kg)
VMA-K28-BO6-C-VAF-L	VMA-BO6	0.211
VMA-K28-MBO6-C-VAF-L	VMA-MBO6	0.203

Port Only Adapter with Venuri for Vacuum Cups with C mount venturi & vacuum detection, right



Material: Aluminium



Part no.	Venturi	(kg)
VMA-K28-BO6-C-VAF-R	VMA-BO6	0.211
VMA-K28-MBO6-C-VAF-R	VMA-MBO6	0.203

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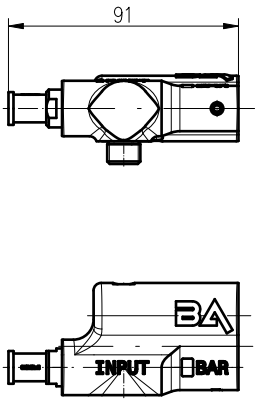
Vacuum cups and connections

Venturi pneumatic ventilation



0.133 kg
Material: Aluminium

Part no.
VMA-SCM-MBO3-G1/4

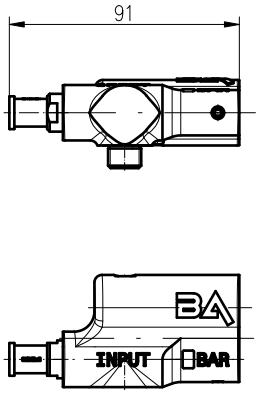


Venturi pneumatic ventilation



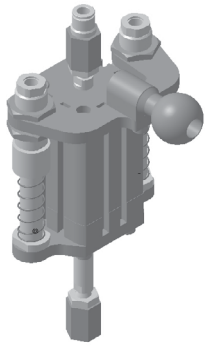
0.133 kg
Material: Aluminium

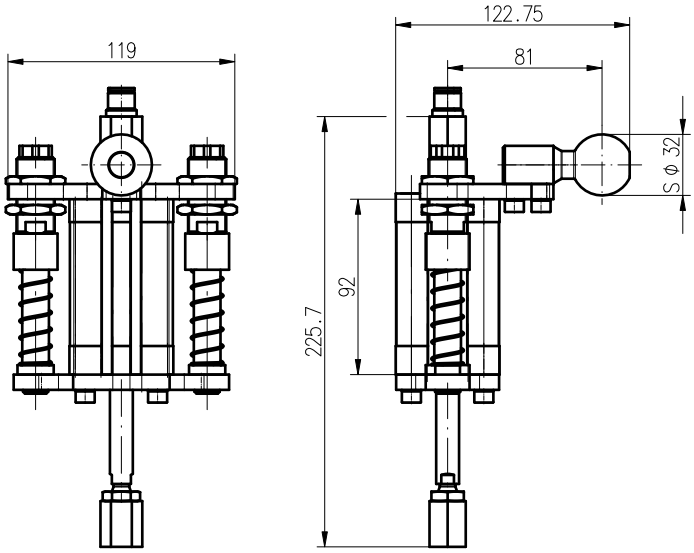
Part no.
VMA-SCM-MBO6-G1/4



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Blank seperator

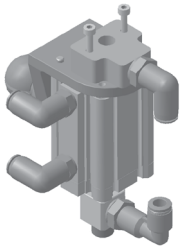


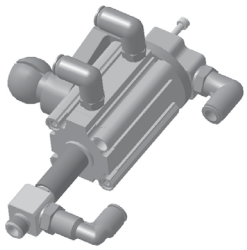


1.48 kg
Material: Aluminium

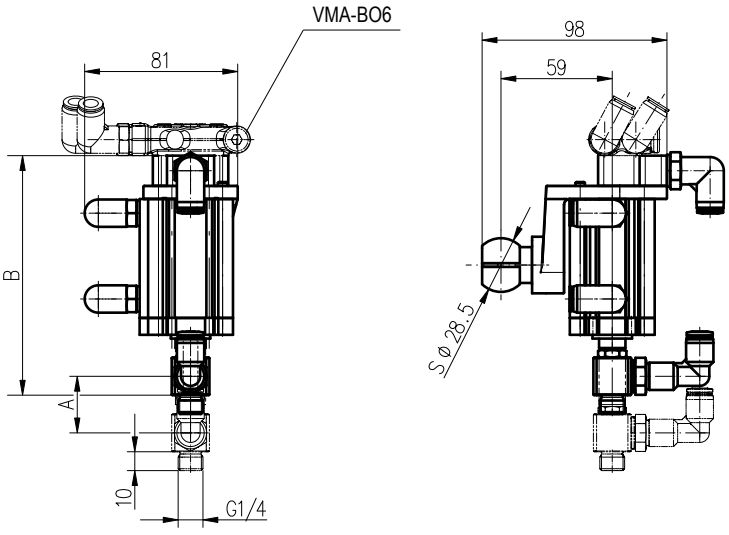
Part no.
PVE-K32-40-50-PPS

Lifting device of vacuum cup





extended position



Part no.	A Stroke	B	(kg)
PVE-K28-CDQ2KB32-15DZ-G14	15	112	0.632
PVE-K28-CDQ2KB32-30DZ-G14	30	127	0.681
PVE-K28-CDQ2KB32-50DZ-G14	50	147	0.767
PVE-K28-CDQ2KB32-75DZ-G14	75	172	0.875

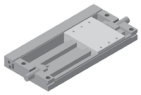
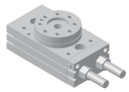
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Pneumatic Components

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	Angled screw-in plug, rotatable	311
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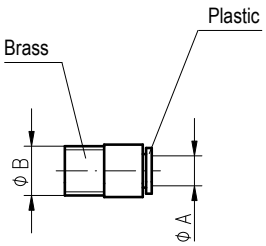
Picture	Designation	Page
	Connector plug	315
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	Plug-in nipple	316
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Push-in fitting, straight



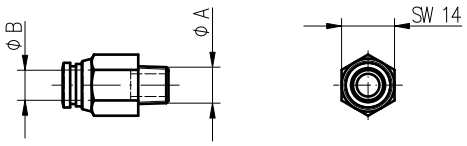


Part no.	Ø A	Ø B	(kg)
KQ2S06-01AS	6	1/8	0.007
KQ2S08-01AS	8		0.010
KQ2S10-01AS	10		0.012
KQ2S06-02AS	6	1/4	0.013
KQ2S08-02AS	8		0.014
KQ2S10-02AS	10		0.012
KQ2S12-02AS	12		0.021

Part no.	Ø A	Ø B	(kg)
QS-G1/8-6-I	6	1/8	0.011
QS-G1/8-8-I	8		0.013
QS-G1/8-10-I	10		0.020
QS-G1/4-6-I	6	1/4	0.018
QS-G1/4-8-I	8		0.022
QS-G1/4-10-I	10		0.022

Push-in fittings, straigth



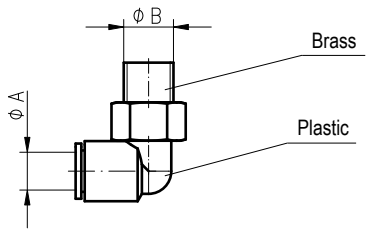


Part no.	Ø A	Ø B	(kg)
QS-G1/8-6	1/8	6	0.091
QS-G1/8-8		8	0.014
QS-G1/4-6	1/4	6	0.018
QS-G1/4-8		8	0.016
QS-G1/4-10		10	0.022

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Push-in fitting, L-shape



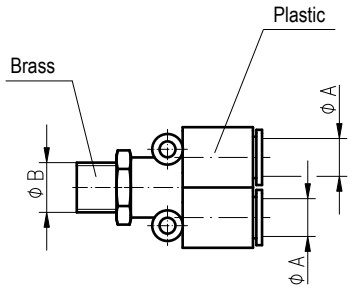


Part no.	Ø A	Ø B	(kg)
KQ2L06-01AS	6	1/8	0.005
KQ2L08-01AS	8		0.006
KQ2L10-01AS	10		0.011
KQ2L06-02AS	6	1/4	0.015
KQ2L08-02AS	8		0.018
KQ2L10-02AS	10		0.022
KQ2L12-02AS	12		0.024

Part no.	Ø A	Ø B	(kg)
QSL-G1/8-6	6	1/8	0.015
QSL-G1/8-8	8		0.018
QSL-G1/4-6	6	1/4	0.024
QSL-G1/4-8	8		0.026
QSL-G1/4-10	10		0.032
QSL-G1/4-12	12		0.051

Push-in fitting, Y-shape





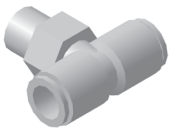
Part no.	Ø A	Ø B	(kg)
KQ2U06-01AS	6	1/8	0.010
KQ2U08-01AS	8		0.016
KQ2U10-01AS	10		0.026
KQ2U06-02AS	6	1/4	0.019
KQ2U08-02AS	8		0.021
KQ2U10-02AS	10		0.026
KQ2U12-02AS	12		0.036

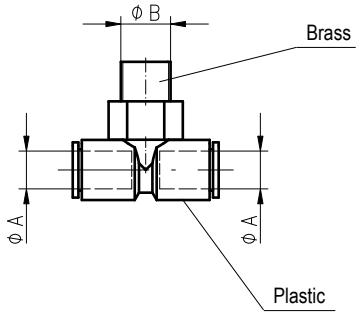
Part no.	Ø A	Ø B	(kg)
QSY-G1/8-6	6	1/8	0.018
QSY-G1/8-8	8		0.023
QSY-G1/4-6	6	1/4	0.028
QSY-G1/4-8	8		0.031
QSY-G1/4-10	10		0.041

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Push-in fitting, T-shape



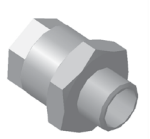


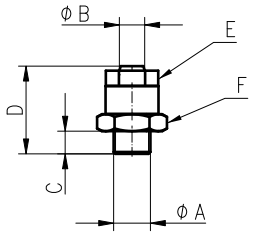
Part no.	Ø A	Ø B	(kg)
KQ2T06-01AS	6	1/8	0.006
KQ2T08-01AS	8		0.008
KQ2T10-01AS	10		0.014
KQ2T06-02AS	6	1/4	0.016
KQ2T08-02AS	8		0.019
KQ2T10-02AS	10		0.024
KQ2T12-02AS	12		0.027

Part no.	Ø A	Ø B	(kg)
QST-G1/8-6	6	1/8	0.018
QST-G1/8-8	8		0.022
QST-G1/4-6	6	1/4	0.027
QST-G1/4-8	8		0.031
QST-G1/4-10	10		0.039
QST-G1/4-12	12		0.058

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Straight screw, coupling, rotatable

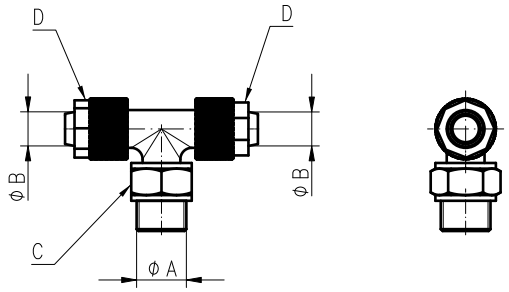




Part no.	Ø A	Ø B	C	D	E	F	(kg)
GEV-1/8-6x4-SCH	G 1/8	6	5.5	24.0	SW10	SW13	0.017
GEV-1/8-8x6-SCH	G 1/8	8	6.0	23.5	SW12	SW13	0.023
GEV-1/8-8x6-SCH-SW15	G 1/8	8	6.0	26.0	SW12	SW15	0.023
GEV-1/8-10x8-SCH	G 1/8	10	6.0	26.0	SW14	SW14	0.026
GEV-1/4-6x4-SCH	G 1/4	6	8.0	25.5	SW10	SW17	0.015
GEV-1/4-8x6-SCH	G 1/4	8	8.0	25.5	SW12	SW17	0.025
GEV-1/4-10x8-SCH	G 1/4	10	8.0	29.0	SW14	SW16	0.029
GEV-3/8-6x4-SCH	G 3/8	6	8.0	27.0	SW12	SW16	0.032
GEV-3/8-8x6-SCH	G 3/8	8	7.5	28.0	SW12	SW19	0.029
GEV-3/8-10x8-SCH	G 3/8	10	8.0	30.0	SW19	SW14	0.035

T-type screw-in plug, rotatable



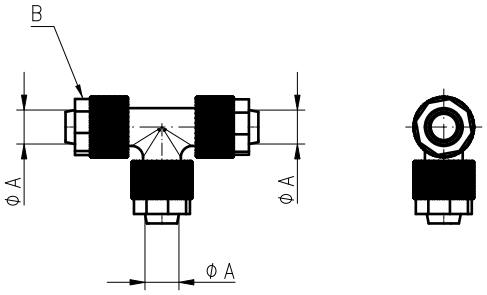


Part no.	Ø A	Ø B	C	D	(kg)
TEVDZ-1/8-6x4-SCH	G 1/8	6	SW14	SW10	0.033
TEVDZ-1/4-6x4-SCH	G 1/4	6	SW17	SW12	0.038
TEVDZ-1/4-8x6-SCH	G 1/4	8	SW16	SW14	0.045
TEVDZ-1/4-10x8-SCH	G 1/4	10	SW17	SW12	0.052

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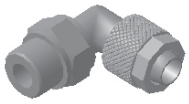
T-connector

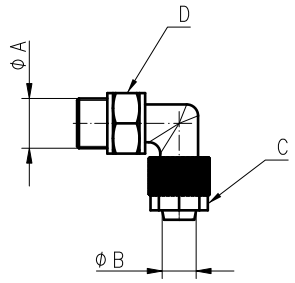




Part no.	Ø A	B	(kg)
TVB-6x4-SCH	6	SW14	0.030
TVB-8x6-SCH	8	SW16	0.037
TVB-10x8-SCH	10	SW17	0.049

Angled screw-in plug, rotatable



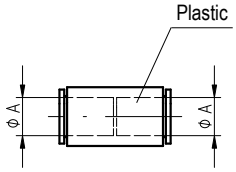


Part no.	Ø A	Ø B	C	D	(kg)
WEVD-1/8-6x4-SCH	G 1/8	6	SW10	SW14	0.023
WEVD-1/8-8x6-SCH	G 1/8	8	SW13	SW12	0.030
WEVD-1/4-6x4-SCH	G 1/4	6	SW10	SW16	0.030
WEVD-1/4-8x6-SCH	G 1/4	8	SW12	SW16	0.033
WEVD-1/4-10x8-SCH	G 1/4	10	SW14	SW16	0.043

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Push-in connector, straight

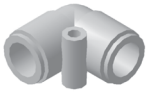


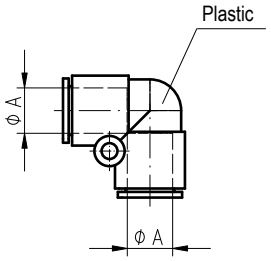


Part no.	Ø A	(kg)
KQ2H06-00A	6	0.004
KQ2S08-00A	8	0.004
KQ2S10-00A	10	0.006
KQ2S12-00A	12	0.008

Part no.	Ø A	(kg)
QS-6	6	0.007
QS-8	8	0.010
QS-10	10	0.016
QS-12	12	0.022

Push-in connector, L-shape





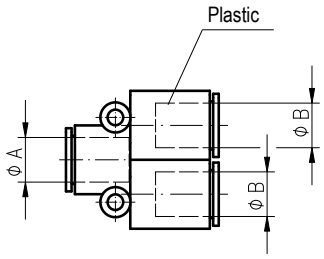
Part no.	Ø A	(kg)
KQ2L06-00A	6	0.005
KQ2L08-00A	8	0.005
KQ2L10-00A	10	0.007
KQ2L12-00A	12	0.010

Part no.	Ø A	(kg)
QSL-6	6	0.008
QSL-8	8	0.010
QSL-10	10	0.017
QSL-12	12	0.025

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Push-in fitting, Y-shape



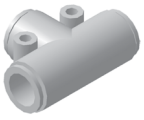


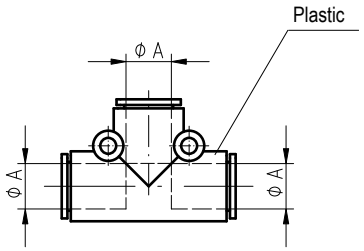
Part no.	Ø A	Ø B	(kg)
KQ2U06-00A	6	6	0.008
KQ2U08-00A	8	8	0.007
KQ2U10-00A	10	10	0.011
KQ2U10-12A	12	10	0.016
KQ2U-12-00A	12	12	0.013

Part no.	Ø A	Ø B	(kg)
QSY-6	6	6	0.011
QSY-8	8	8	0.016
QSY-10	10	10	0.026
QSY-10-8	10	8	0.020
QSY-12	12	12	0.037

Part no.	Ø A	Ø B	(kg)
YV.00.06.06	6	6	0.014
YV.00.06.08	8	8	0.008

Push-in fitting, T-shape





Part no.	Ø A	(kg)
KQ2T06-00A	6	0.008
KQ2T08-00A	8	0.007
KQ2T10-00A	10	0.011
KQ2T12-00A	12	0.016

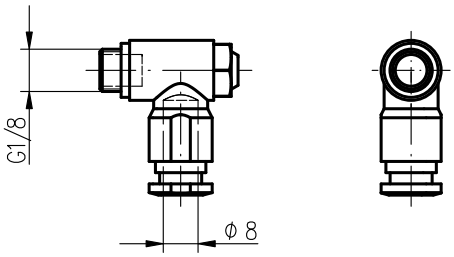
Part no.	Ø A	(kg)
QST-6	6	0.011
QST-8	8	0.016
QST-10	10	0.025
QST-12	12	0.036

Part no.	Ø A	(kg)
TA.00.06.06	6	0.014
TA.00.08.08	8	0.008

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Flow control valve



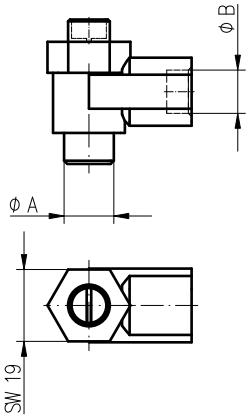


Part no.
GRLA-1/8-QS-8-D

Part no.
AS2201F-01-08S

Flow control valve



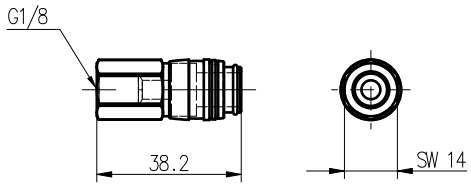


Part no.	Ø A	Ø B	(kg)
AS2200-G01D-DPH00748	G1/8	G1/8	0.029
AS2200-G02D-DPH00749	G1/4	G1/4	0.064

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Coupling socket

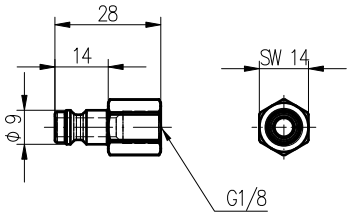




Part no.
KD3-1/8-i

Connector plug

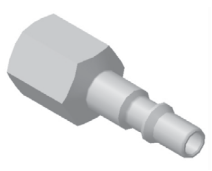


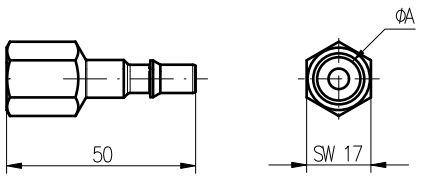


Part no.
KS3-1/8-i

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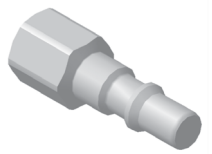
Plug-in nipple

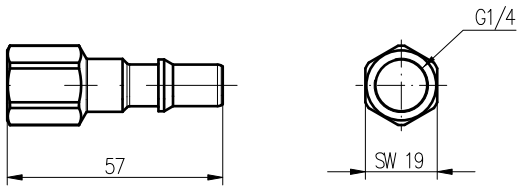




Part no.	ØA
RBE06.6100	G1/8
RBE06:6101	G1/4

Plug-in nipple

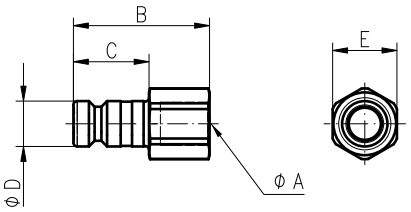




Part no.
RBE08.6101

Plug-in nipple





Part no.	ØA	B	C	ØD	E	(kg)
LP-004-1-WR510-11	G1/8	29	16	8.5	SW14	0.018
LP-006-1-WR513-11	G1/4	36	20	12.0	SW17	0.028

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Pneumatic tube



Plastic tubing, standard
Ambient temperature: -20°...60°C
operating pressure at 20°C : 0,8MPa
Material: polyurethane

Part no.	Outside-Ø	Inside-Ø	Color	Length (m)
TU0604-BU-20	6	4	blue	20
TU0604-C-20			claer	
TU0604-R-20			red	
TU0805-BU-20	8	5	blue	
TU0805-C-20			clear	
TU0805-G-20			green	
TU0805-R-20			red	
TU0805-W-20			withe	
TU0805-Y-20			yellow	
TU1065-BU-20	10	6.5	blue	
TU1208-BU-20	12	8	blue	

Pneumatic tube



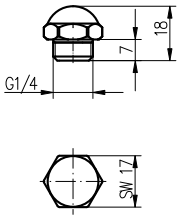
Plasting tubing, standard
Ambient temperature: -35°...60°C
Temperature dependent operating pressure: -0,95...+10 bar
Material: polyurethane

Part no.	Outside-Ø	Inside-Ø	Farbe	Length (m)
PUN-6x1-GE	6	4	yellow	50
PUN-6x1-GN	6	4	green	
PUN-6x1-RT	6	4	red	
PUN-6x1-SW	6	4	black	
PUN-8x1.25-GE	8	5.7	yellow	
PUN-8x1.25-GN	8	5.7	green	
PUN-8x1.25-RT	8	5.7	red	
PUN-8x1.25-SW	8	5.7	black	
PUN-10x1.5-GE	10	7	yellow	
PUN-10x1.5-GN	10	7	green	
PUN-10x1.5-RT	10	7	red	
PUN-10x1.5-SW	10	7	black	

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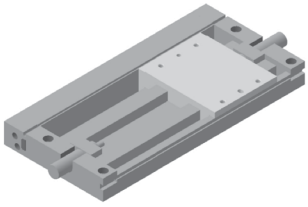
Silencer, brass

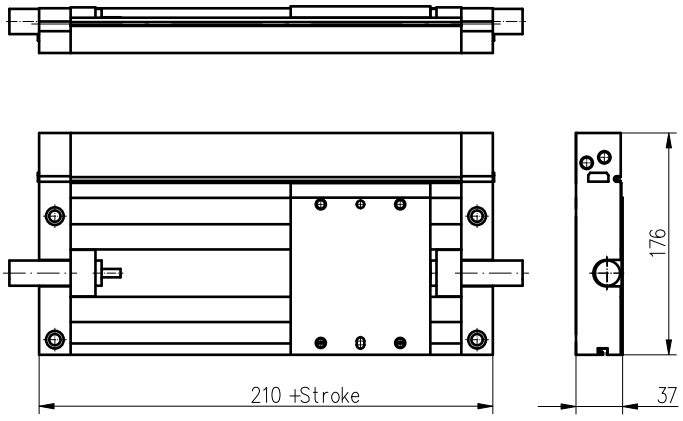




Part no.
SDD-G1/4-MS

Mechanically Jointed Rodless cylinder (SMC)

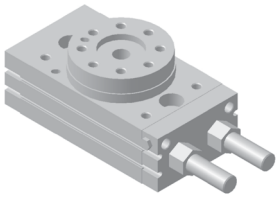


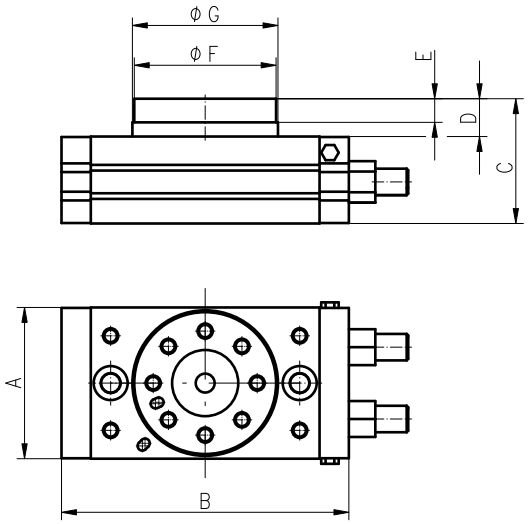


Part no.	Stroke	(kg)
MY2HT25TGF-50H	50	2.77
MY2HT25TGF-100H	100	3.19
MY2HT25TGF-150H	150	3.61
MY2HT25TGF-200H	200	4.03

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Rotary Table

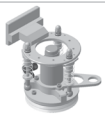




Part no.	A	B	C	D	E	Ø F	Ø G	(kg)	
EMSQB50-A	80	152	66	20	12.0	75	77	2.10	with adjustment bolt
EMSQB50-R	80	152	66	20	12.0	75	77	2.10	with internal shock absorber
EMSQB70-A	84	170	75	22	12.5	88	90	2.89	with adjustment bolt
EMSQB70-R	84	170	75	22	12.5	88	90	2.89	with internal shock absorber
EMSQB100-R	95	189	86	27	14.5	98	100	2.89	with internal shock absorber

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Proximity switch mounts

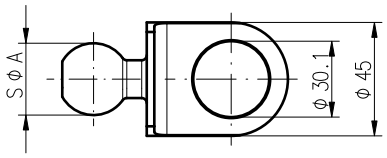
Picture	Designation	Page
	Holder for spring cup mounts and proximity switch mounts	323
	Holder for spring cup mounts and proximity switch mounts	323
	Holder for spring cup mounts and proximity switch mounts	324
	Holder for spring cup mounts and proximity switch mounts	324
	Holder for spring cup mounts and proximity switch mounts	325
	Holder for spring cup mounts and proximity switch mounts	325
	Adapter for spring-mounted double blank detector	326
	Adapter for spring-mounted double blank detector	326
	Vacuum cup for double blank detector	327
	Holder for spring-mounted double blank detector	327
	Spring-mounted double blank detector with belcup	328
	Belcup for Spring-mounted double blank detector	328
	Spring-mounted double blank detector with belcup (Stall prevention)	329
	Spring-mounted double blank detector with flat foot cup	330
	Flat foot cup for Spring-mounted double blank detector	330

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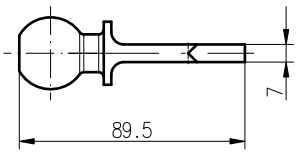
Proximity switch mounts

Holder for spring cup mounts and proximity switch mounts





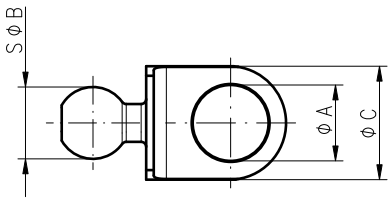
Material: Aluminium



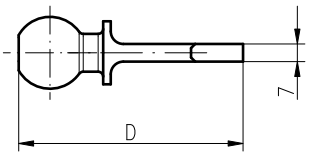
Part no.	SØ A	(kg)
SAPA-I-30-K28	28.5	0.067
SAPA-I-30-K32	32.0	0.076

Holder for spring cup mounts and proximity switch mounts





Material: Steel

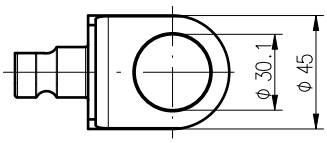


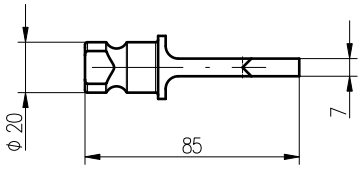
Part no.	Ø A	SØ B	C	D	(kg)
SAPS-I-30-K28	30.1	28.5	45	89.5	0.187
SAPS-I-30-K32	30.1	32.0	45	89.5	0.216
SAPS-I-M2015-K28	M20x1.5	28.5	34	76.0	0.153

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Holder for spring cup mounts and proximity switch mounts





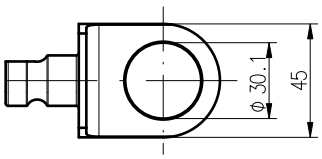


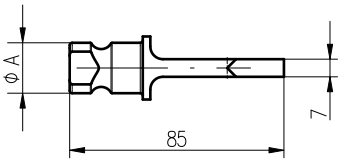
0.06 kg
Material: Aluminium

Part no.
SAPA-I-30-B20

Holder for spring cup mounts and proximity switch mounts







0.174 kg
Material: Steel

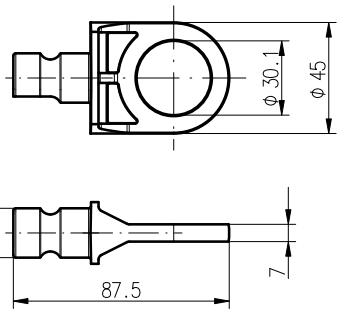
Part no.	Ø A	B	(kg)
SAPS-I-30-B19	19	85.0	0.171
SAPS-I-30-B20	20	87.5	0.174

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Proximity switch mounts

Holder for spring cup mounts and proximity switch mounts



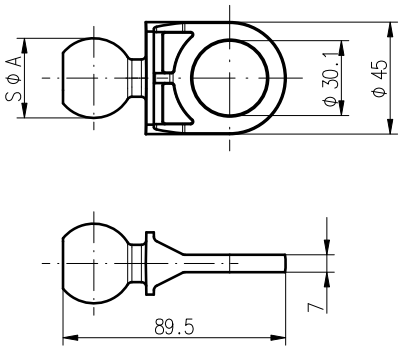


Material: PA6-GF30

Part no.	ØA	(kg)
SAPP-I-30-B19	19	0.018
SAPP-I-30-B20	20	0.019

Holder for spring cup mounts and proximity switch mounts





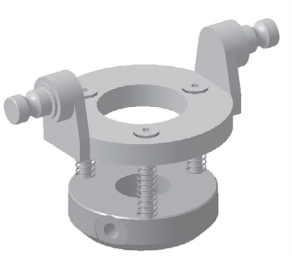
Material: PA6-GF30

Part no.	SØA	(kg)
SAPP-I-30-K28	28.5	0.029
SAPP-I-30-K32	32.0	0.033

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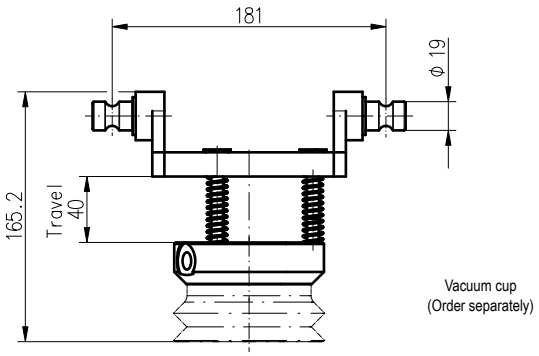
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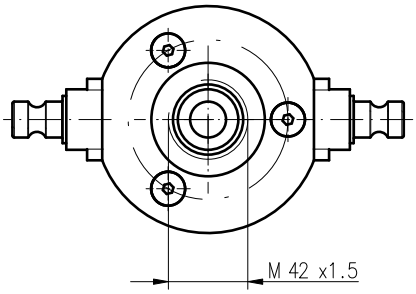
Adapter for spring-mounted double blank detector



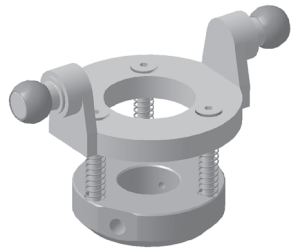
1.15 kg
Material: Aluminium

Part no.
825SM-4215-01



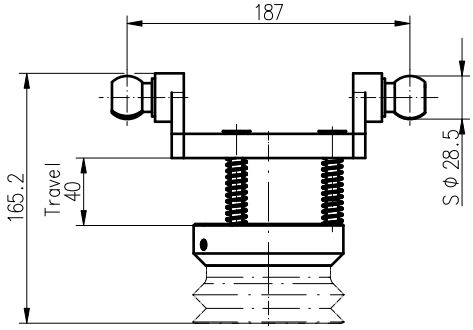


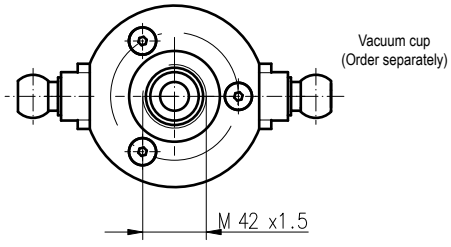
Adapter for spring-mounted double blank detector



1.15 kg
Material: Aluminium

Part no.
825SM-4215-01-K28



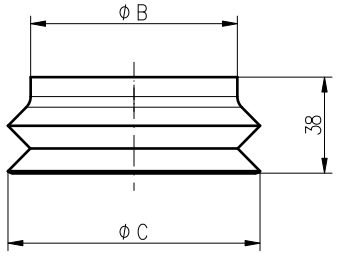


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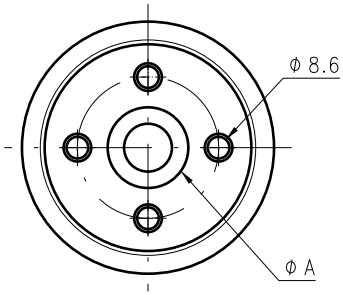
Proximity switch mounts

Vacuum cup for double blank detector



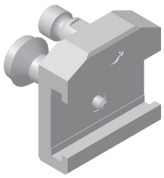


Part no.	Ø A	Ø B	Ø C	(kg)
100BT-4215-*	42	85	100	0.12
125BT-4215-*	54	109	125	0.20

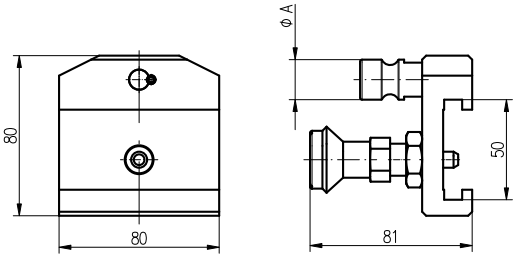


Ordering information	e.g.: 100BT-4215-55
Size	Hardness in shore
↓	↓
100BT-4215	55 (yellow)
125BT-54075	

Holder for spring-mounted double blank detector



Material: Aluminium

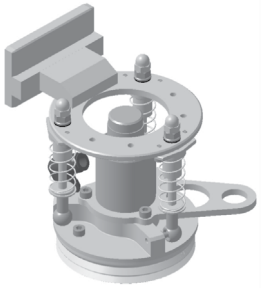


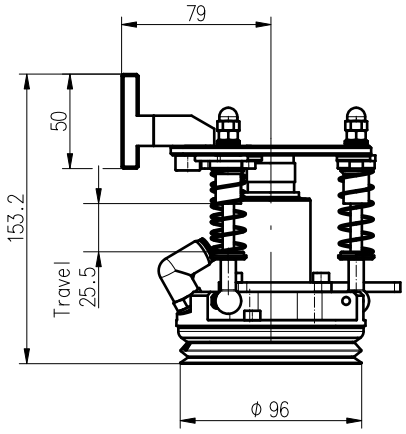
Part no.	Ø A	(kg)
825SM-4215-05-AP	19	0.32
825SM-4215-05-AP-B20	20	0.32

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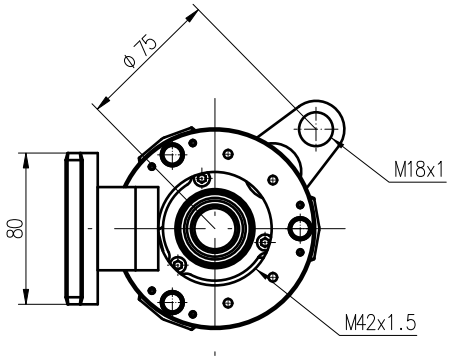
Spring-mounted double blank detector with belcup





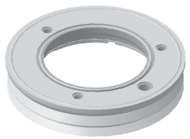
Material: Aluminium

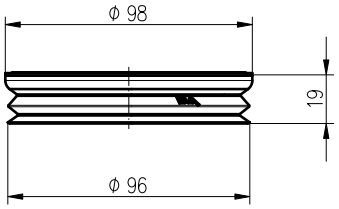
Part no.	(kg)
825SM-4215-DBT-*	0.726



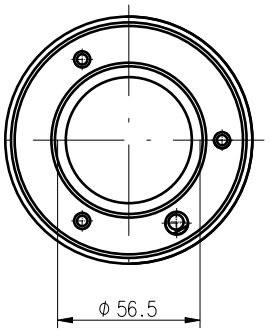
Ordering information	e.g.: 825SM-4215-DBT-55
825SM-4215	-
	Hardness in shore
	↓
	55 (yellow)

Belcup for Spring-mounted double blank detector





Part no.	(kg)
100DBT-4215-*	0.726



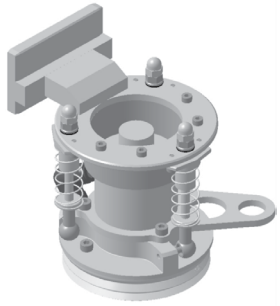
Ordering information	e.g.: 100DBT-4215-55
100DBT-4215	Hardness in shore
	↓
	55 (yellow)

Subject to modification
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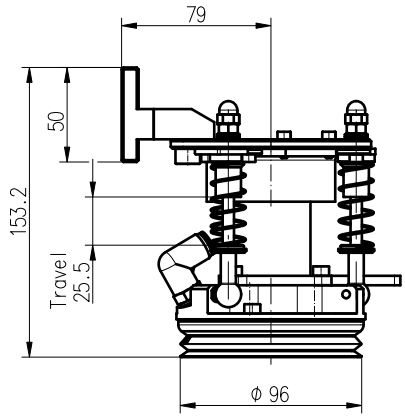
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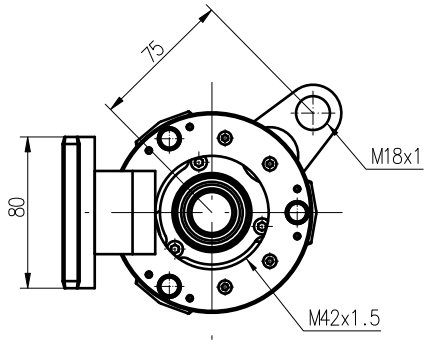
Proximity switch mounts

Spring-mounted double blank detector with belcup (Stall prevention)



Material: Aluminium



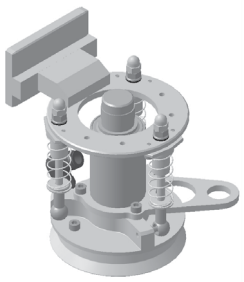


Part no.	(kg)
825SM-4215-DBT-KS-*	0.726

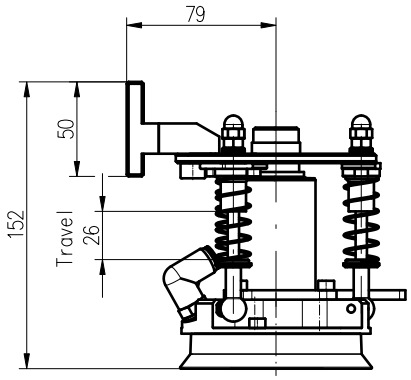
Ordering information	e.g.: 825SM-4215-DBT-KS-55
825SM-4215-DBT-KS	-
	Hardness in shore
	↓
	55 (yellow)

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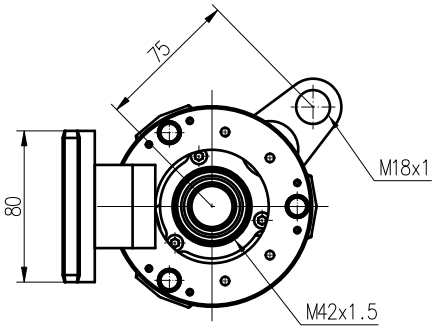
Spring-mounted double blank detector with flat foot cup



Material: Aluminium

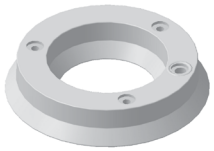


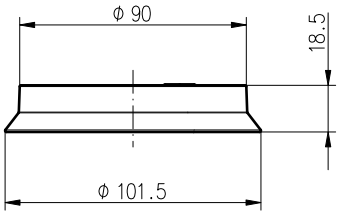
Part no.	(kg)
825SM-4215-DBTF-*	0.708



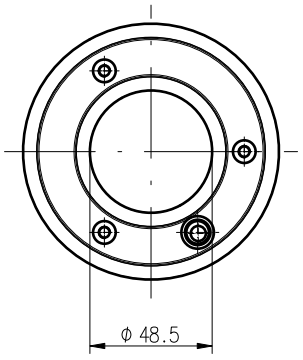
Ordering information	e.g.: 825SM-4215-DBTF-55
825SM-4215-DBTF	-
	Hardness in shore
	↓
	55 (yellow)

Flat foot cup for Spring-mounted double blank detector





Part no.	(kg)
100DBTF-4215-*	0.726

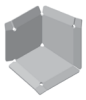


Ordering information	e.g.: 100DBTF-4215-55
100DBTF-4215	-
	Hardness in shore
	↓
	55 (yellow)

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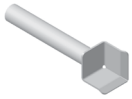
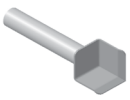
Shovel and connections

Picture	Designation	Page
	Shovel	335
	Shovel	335
	Shovel	336
	Shovel for hold-down, left	337
	Shovel for hold-down, right	337
	Shovel for transfer press without sensor, left	338
	Shovel for transfer press without sensor, right	338
	Shovel for transfer press with sensor, left	339
	Shovel for transfer press with sensor, right	339
	Shovel for transfer press without sensor, left	340
	Shovel for transfer press without sensor, right	340
	Shovel for transfer press with sensor, left	341
	Shovel for transfer press with sensor, right	341
	Shovel for transfer press without sensor, left	342
	Shovel for transfer press without sensor, right	342
	Shovel for transfer press with sensor, left	343

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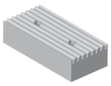
Shovel and connections

Picture	Designation	Page
	Shovel for transfer press with sensor, right	343
	Shovel for transfer press without sensor, left	344
	Shovel for transfer press without sensor, right	344
	Shovel for transfer press with sensor, left	345
	Shovel for transfer press with sensor, right	345
	Shovel, left	346
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	Shovel with ball mount, left	347
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	Shovel	349
	Ball adapter plate	350
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	Shovel adapters	350
	Pad support	351
	Pad support	351

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Shovel and connections

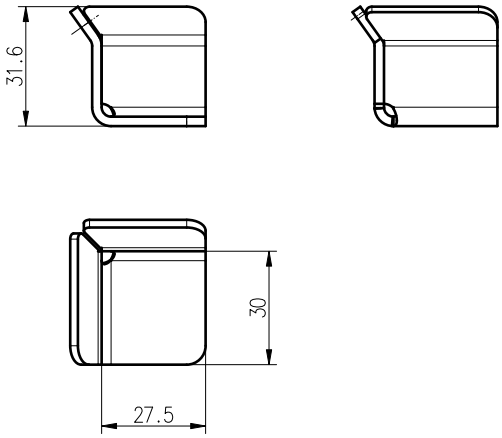
Picture	Designation	Page
	Nest pad guide	352
	Nest pad guide	352
	Shovel adapters	353
	Shovel adapters	353
	Rib top pads	354
	Plastic insert for sensors	354

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Shovel and connections

Shovel



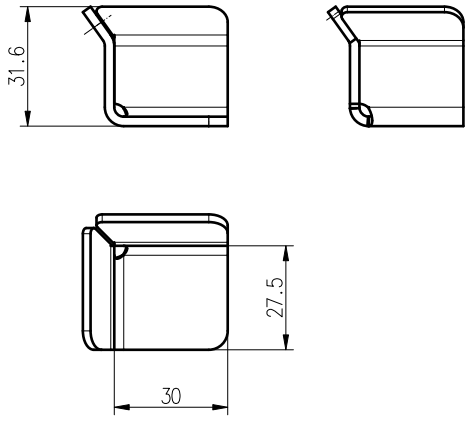


0.029 kg
Material: Steel

Part no.
SH-00-303030-L

Shovel



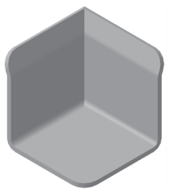


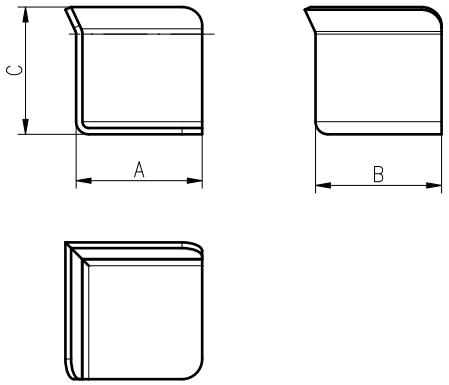
0.029 kg
Material: Steel

Part no.
SH-00-303030-R

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Shovel





Material: Steel

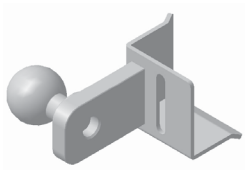
Part no.	A	B	C	(kg)
SH-00-404040-LR	42.5	42.5	42.5	0.095
SH-00-505050-LR	50	50.0	50.0	0.14
SH-00-606060-LR	61	61.0	67.5	0.23

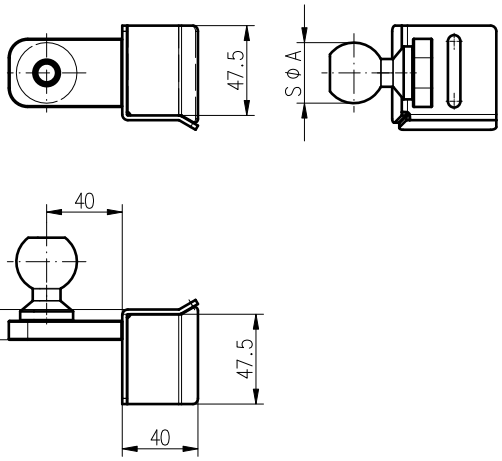
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Shovel and connections

Shovel for hold-down, left



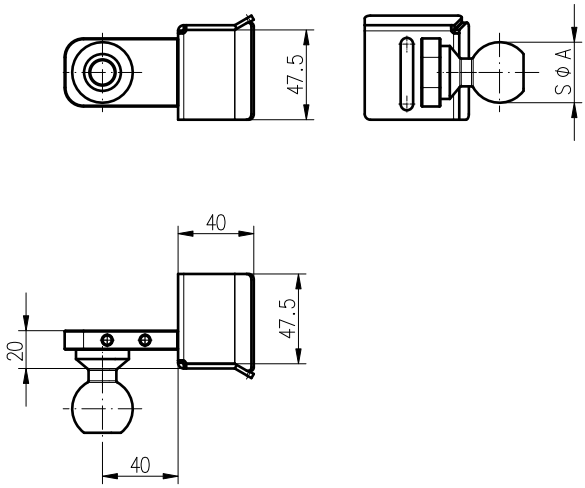


Material: Steel

Part no.	S ØA	(kg)
SH-K28-40-474740-L-N	28.5	0.394
SH-K32-40-474740-L-N	32.0	0.425
SH-K36-40-474740-L-N	36.0	0.446

Shovel for hold-down, right



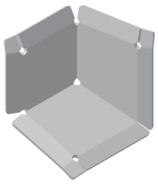


Material: Steel

Part no.	S ØA	(kg)
SH-K28-40-474740-R-N	28.5	0.394
SH-K32-40-474740-R-N	32.0	0.425
SH-K36-40-474740-R-N	36.0	0.446

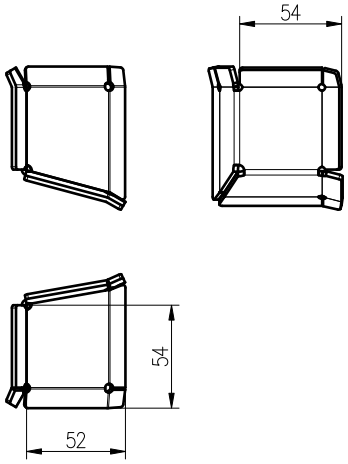
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Shovel for transfer press without sensor, left

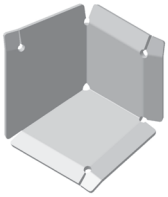


0.188 kg
Material: Steel

Part no.
SH-00-545855-L

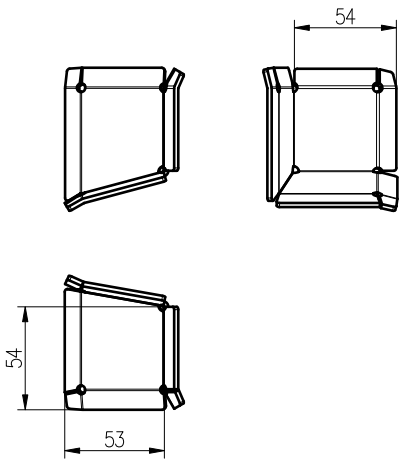


Shovel for transfer press without sensor, right



0.188 kg
Material: Steel

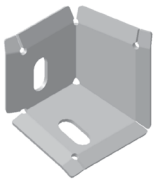
Part no.
SH-00-545855-R



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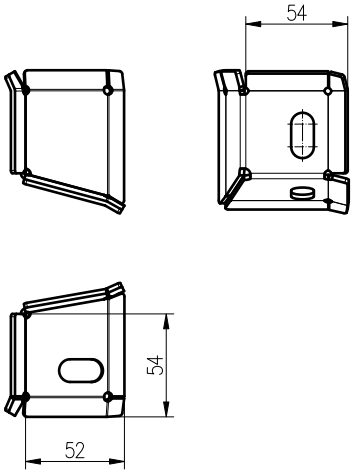
Shovel and connections

Shovel for transfer press with sensor, left

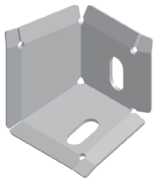


0.178 kg
Material: Steel

Part no.
SH-00-545855-L-S

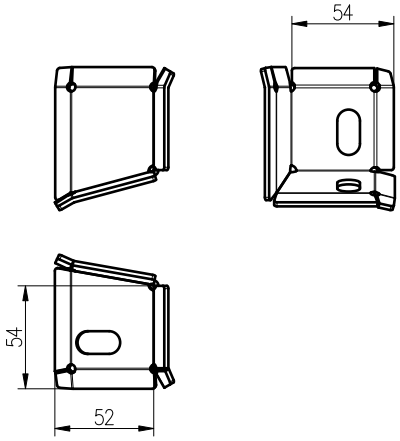


Shovel for transfer press with sensor, right



0.178 kg
Material: Steel

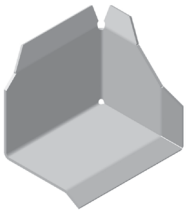
Part no.
SH-00-545855-R-S

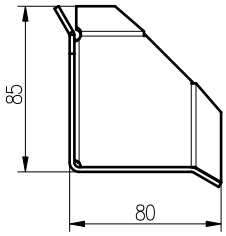


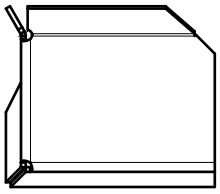
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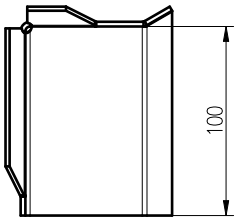
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Shovel for transfer press without sensor, left





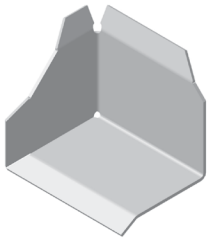


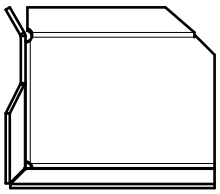


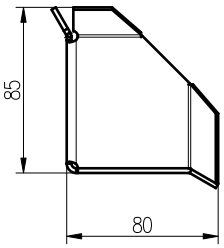
0.42 kg
Material: Steel

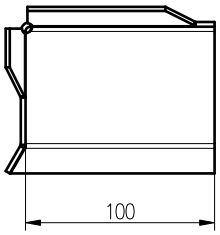
Part no.
SH-00-1008580-L

Shovel for transfer press without sensor, right









0.42 kg
Material: Steel

Part no.
SH-00-1008580-R

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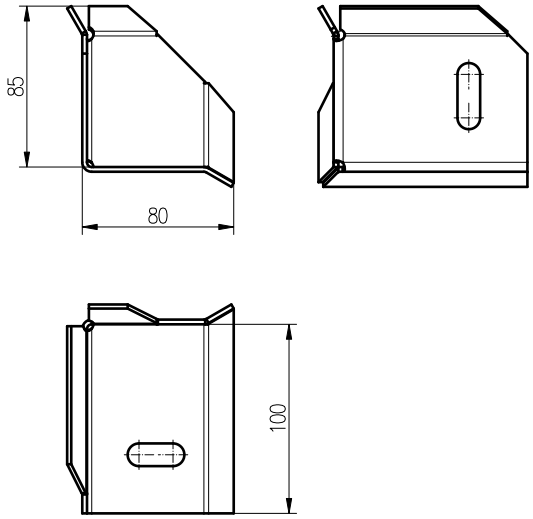
Shovel and connections

Shovel for transfer press with sensor, left

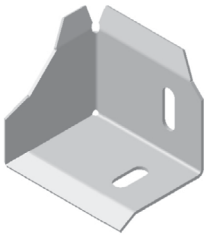


0.41 kg
Material: Steel

Part no.
SH-00-1008580-L-S

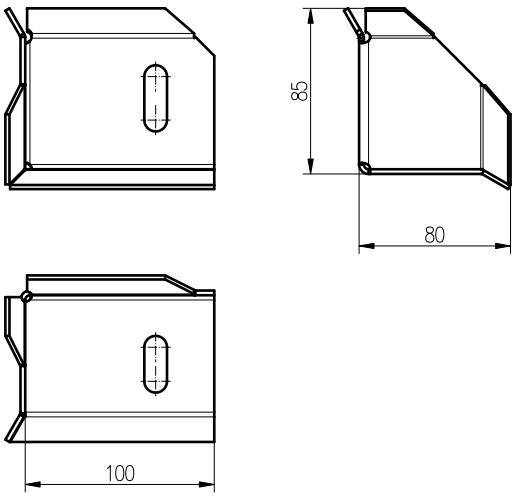


Shovel for transfer press with sensor, right



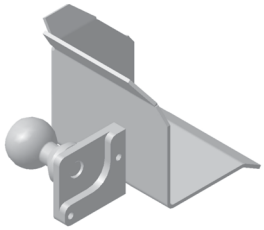
0.41 kg
Material: Steel

Part no.
SH-00-10085100-R-S

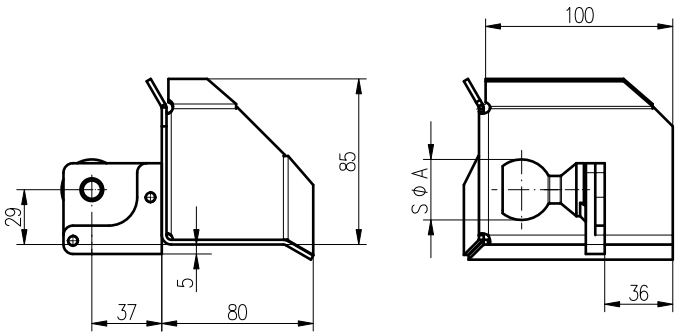


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Shovel for transfer press without sensor, left

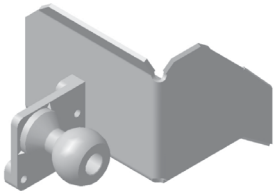


Material: Steel

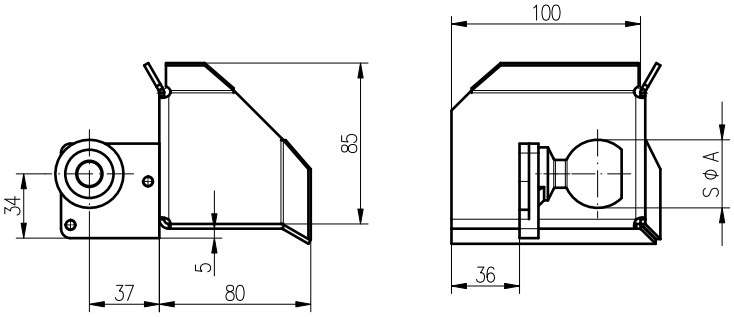


Part no.	S ØA	(kg)
SH-K28-1008580-L	28.5	0.69
SH-K32-1008580-L	32.0	0.68
SH-K36-1008580-L	36.0	0.75

Shovel for transfer press without sensor, right



Material: Steel

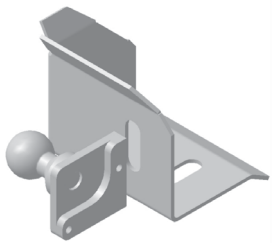


Part no.	S ØA	(kg)
SH-K28-1008580-R	28.5	0.69
SH-K32-1008580-R	32.0	0.68
SH-K36-1008580-R	36.0	0.75

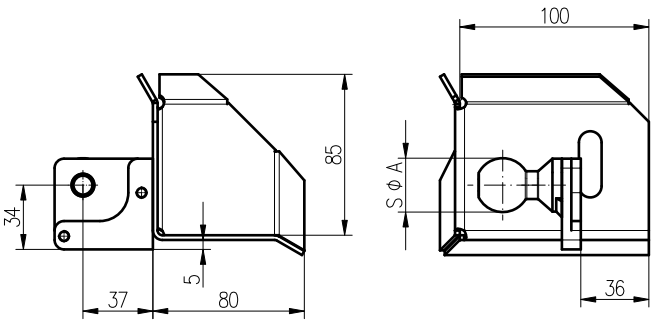
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Shovel and connections

Shovel for transfer press with sensor, left

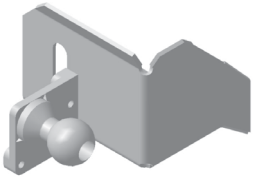


Material: Steel

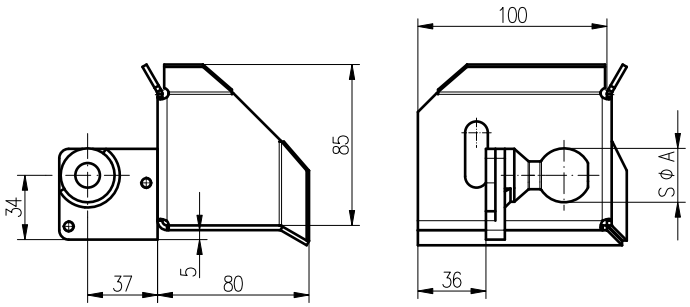


Part no.	S ØA	(kg)
SH-K28-1008580-L-S	28.5	0.69
SH-K32-1008580-L-S	32.0	0.68
SH-K36-1008580-L-S	36.0	0.75

Shovel for transfer press with sensor, right



Material: Steel

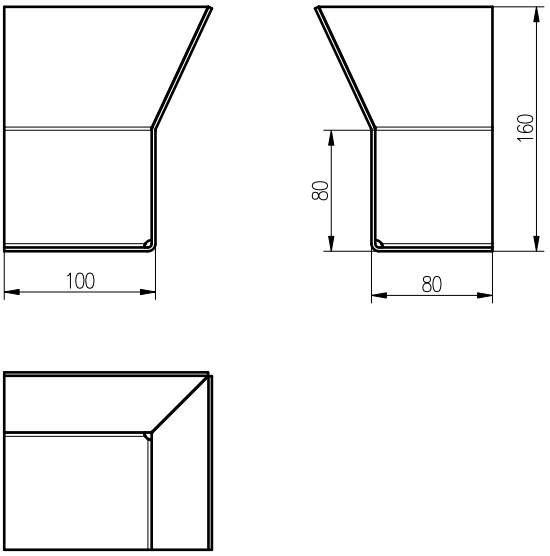


Part no.	S ØA	(kg)
SH-K28-1008580-R-S	28.5	0.69
SH-K32-1008580-R-S	32.0	0.68
SH-K36-1008580-R-S	36.0	0.75

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Shovel for transfer press without sensor, left

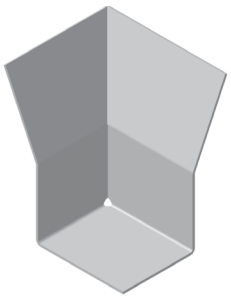


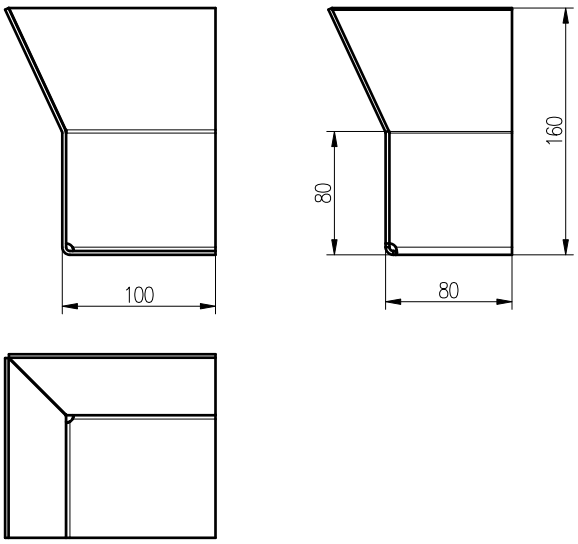


0.79 kg
Material: Steel

Part no.
SH-00-10080160-L

Shovel for transfer press without sensor, right





0.79 kg
Material: Steel

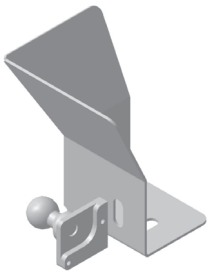
Part no.
SH-00-10080160-R

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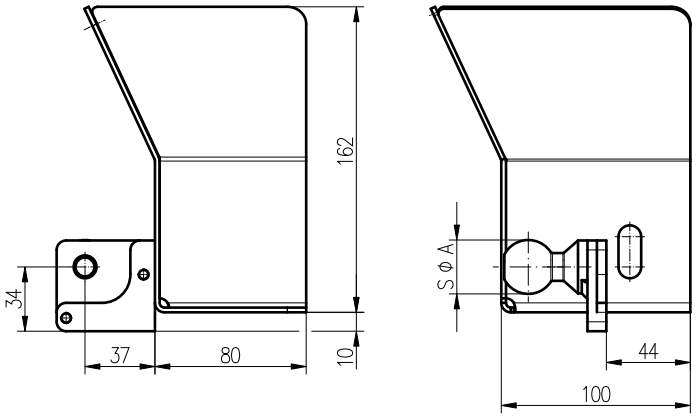
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Shovel and connections

Shovel for transfer press with sensor, left

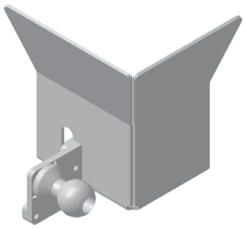


Material: Steel

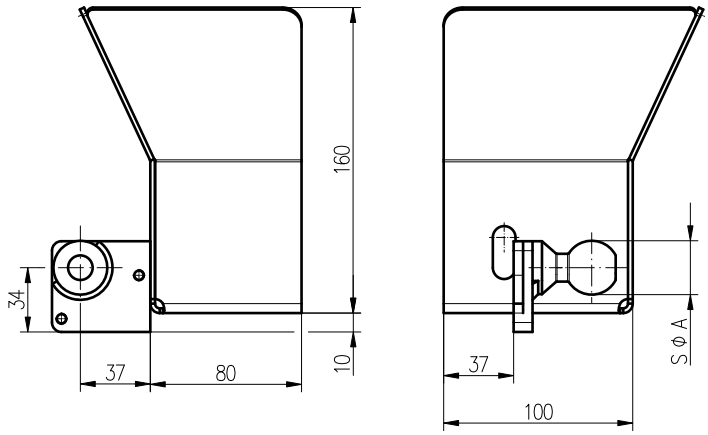


Part no.	S ØA	(kg)
SH-K28-10080160-L-S	28.5	1.05
SH-K32-10080160-L-S	32.0	1.07
SH-K36-10080160-L-S	36.0	1.18

Shovel for transfer press with sensor, right



Material: Steel

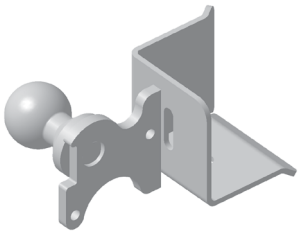


Part no.	S ØA	(kg)
SH-K28-10080160-R-S	28.5	1.05
SH-K32-10080160-R-S	32.0	1.07
SH-K36-10080160-R-S	36.0	1.18

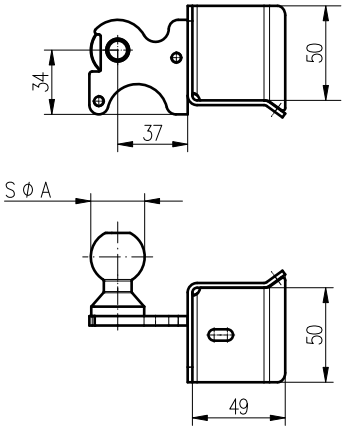
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Shovel, left

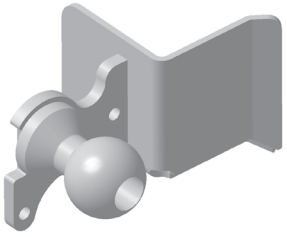


Material: Steel

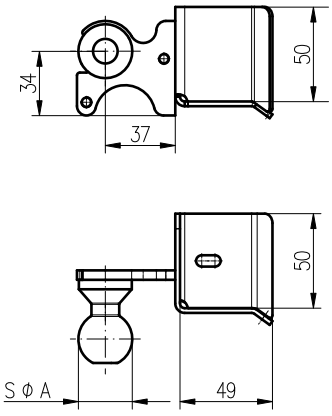


Part no.	S ØA	(kg)
SH-K28-505050-L-S	28.5	0.342
SH-K32-505050-L-S	32.0	0.373
SH-K36-505050-L-S	36.0	0.394

Shovel, right



Material: Steel

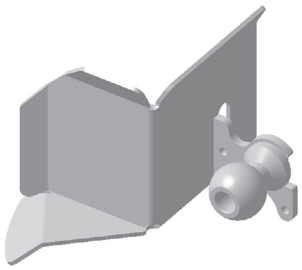


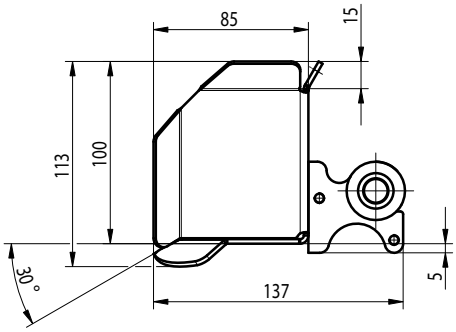
Part no.	S ØA	(kg)
SH-K28-505050-R-S	28.5	0.342
SH-K32-505050-R-S	32.0	0.373
SH-K36-505050-R-S	36.0	0.394

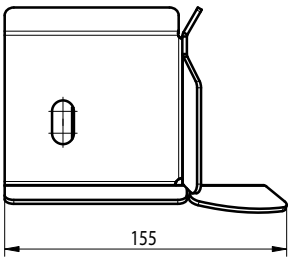
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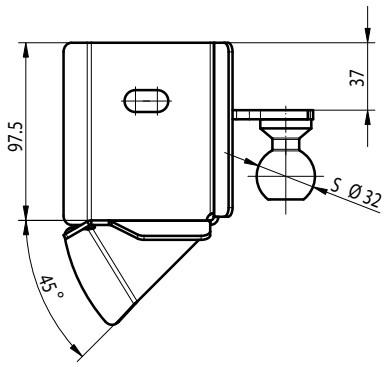
Shovel and connections

Shovel with ball mount, left





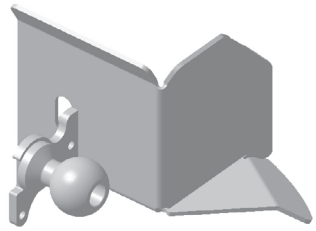


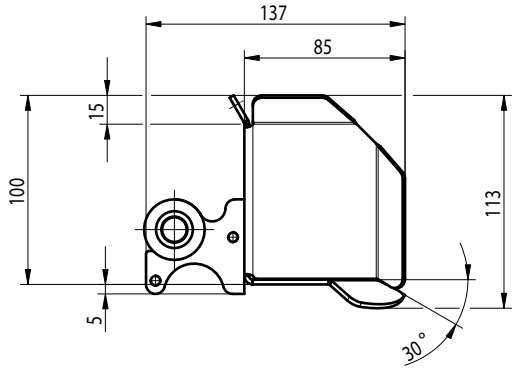


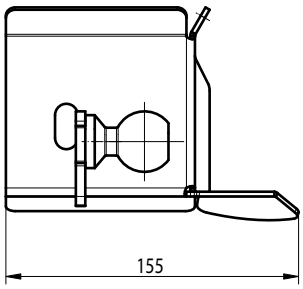
0.769 kg
Material: Steel

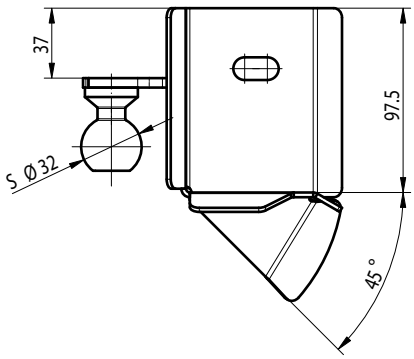
Part no.
SH-K32-SA100-15-L-S

Shovel with ball mount, right







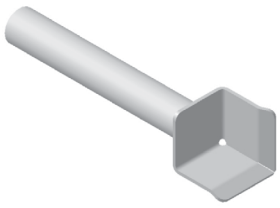


0.769 kg
Material: Steel

Part no.
SH-K32-SA100-15-R-S

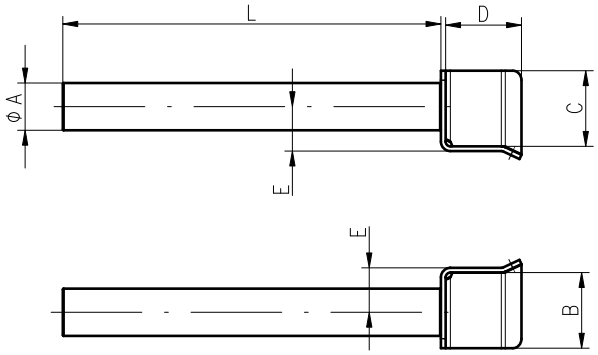
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Shovel



SH-25-150-404040-LR

Material: Steel



Part no.	ØA	B	C	D	E
SH-20-L-303030-LR	20	30	32.5	31.5	16
SH-20-L-404040-LR	20	40	40	40	16
SH-20-L-505050-LR	20	50	50	50	16
SH-25-L-404040-LR	25	40	40	40	23.5
SH-25-L-606060-LR	25	61	61	67.5	18.5

Ordering information e.g.: SH-20-200-404040-L

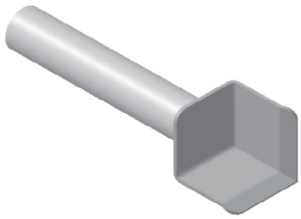
SH	-A	-L	-	-LR
	Diameter	Length	Shovel size	
	↓	↓	↓	
	20	100 - 400	303030	
	25	Other lengths upon request	404040	
			505050	
			606060	

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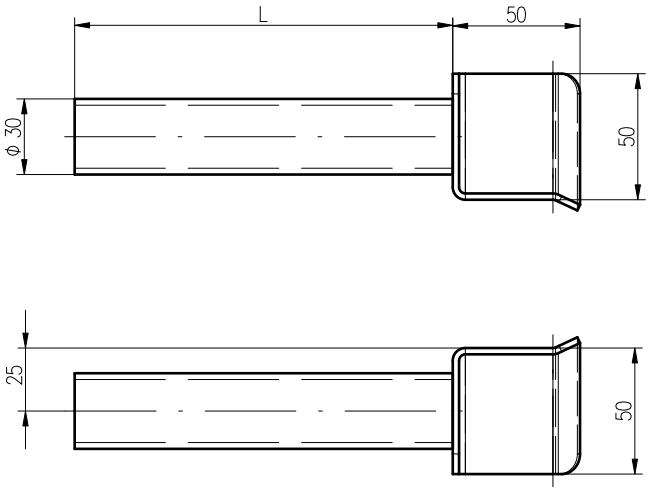
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Shovel and connections

Shovel



Material: Steel



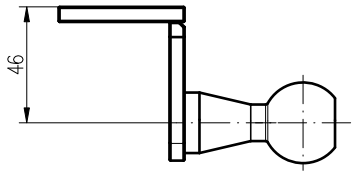
Ordering information			e.g.: SH-30-200-505050-LR
SH-30	-L	-	-LR
	Lenght	Shovel size	
	↓	↓	
	100 - 400 (100 mm increments)	505050	

Other lengths upon request

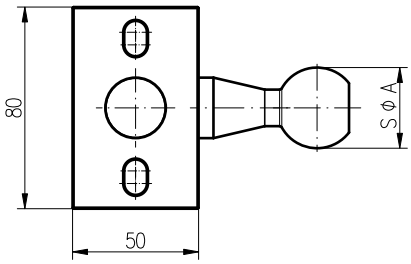
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Ball adapter plate



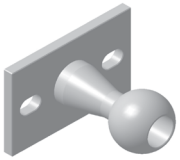


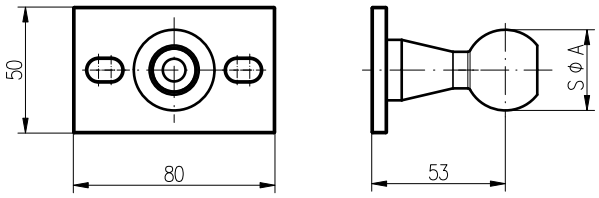
Material: Steel



Part no.	S ØA	(kg)
KGL-PL-00-K28-80	28.5	0.46
KGL-PL-00-K32-80	32.0	0.47
KGL-PL-00-K36-80	36.0	0.49

Ball adapter plate



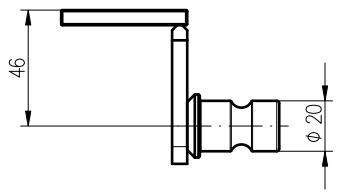


Material: Steel

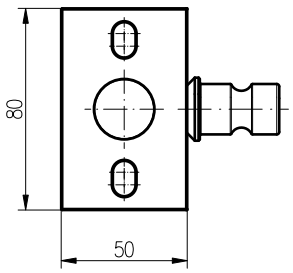
Part no.	S ØA	(kg)
KGL-PL-90-K28-80	28.5	0.34
KGL-PL-90-K32-80	32.0	0.35
KGL-PL-90-K36-80	36.0	0.37

Shovel adapters





0.40 kg
Material: Steel

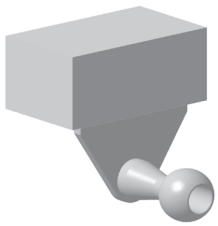


Part no.
KGL-PL-00-B20-80

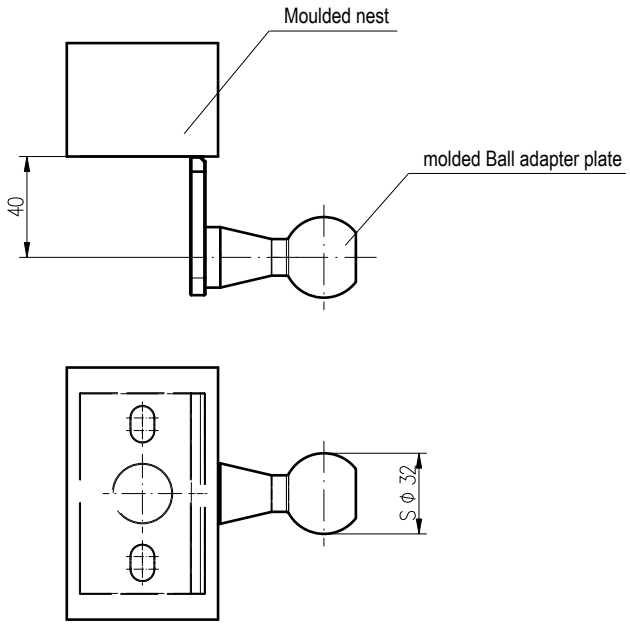
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Shovel and connections

Pad support



Material: Steel

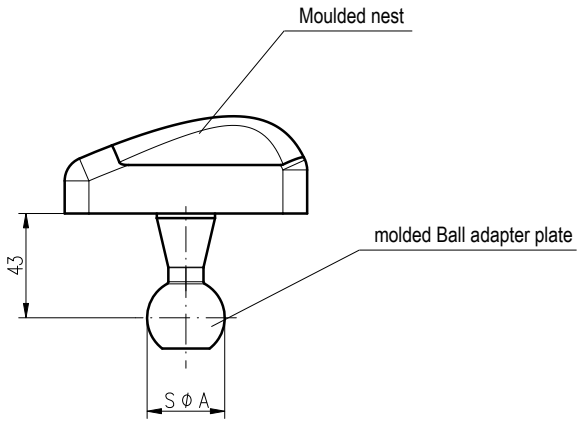


Part no.
KGL-PL-00-K32-80-FA

Pad support



Material: Steel



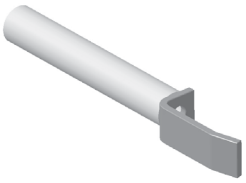
Part no.	SØA
KGL-PL-90-K28-80-FA	28.5
KGL-PL-90-K32-80-FA	32.0
KGL-PL-90-K36-80-FA	36.0

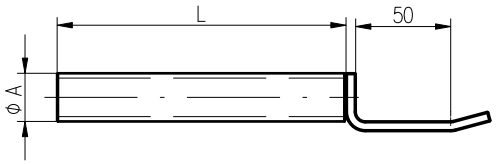
Part no.	Designation
PN265-A	Componente A
PN265-B	Componente B
Seperation spray	Seperation spray
Cleaner	Cleaning spray 400 ml box
Fermit	Plastic putty

* Component-specific production

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Nest pad guide

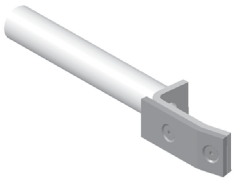


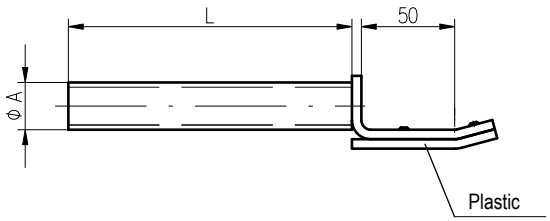


Material: Steel

Ordering information			e.g.: NPG-410-25-50-200
NPG-410	-A	-50	-L
	Diameter		Length
	↓		↓
	20		150 - 400 (50mm increments)
	25		
	30		

Nest pad guide





Material: Steel

Ordering information				e.g.: NPG-410-25-50-200-A
NPG-410	-A	-50	-L	-A
	Diameter		Length	
	↓		↓	
	20		150 - 400 (50mm increments)	
	25			
	30			

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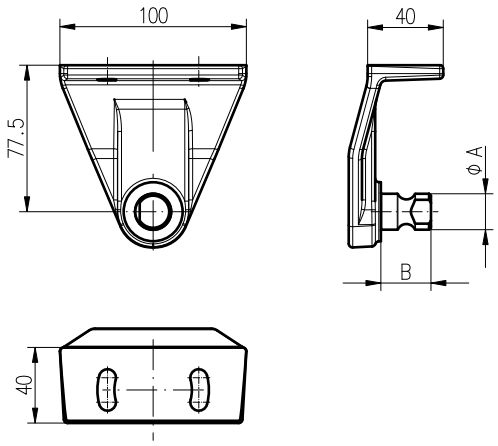
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Shovel and connections

Shovel adapters



Material: Steel

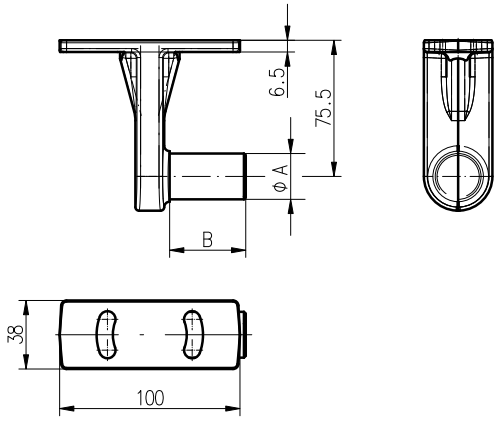


Part no.	Ø A	B	(kg)
EST-00-19-410	19	26.5	0.24
EST-00-25-410	25	26.5	0.26

Shovel adapters



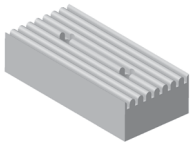
Material: Steel



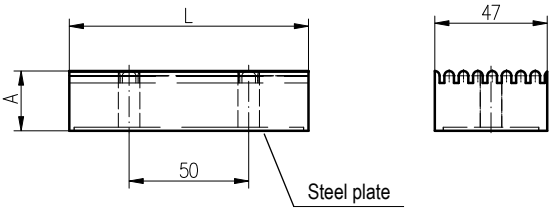
Part no.	Ø A	B	(kg)
EST-90-19-410	19	26.5	0.22
EST-90-25-410	25	42.2	0.26

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Rib top pads

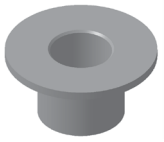


Material: NBR

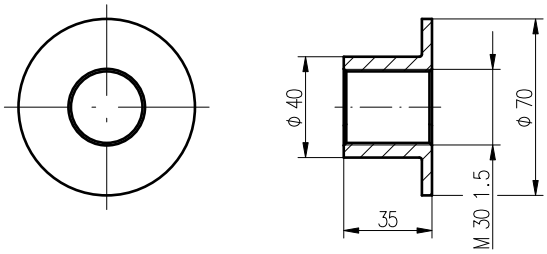


Ordering information			e.g.: RT-25-150-55
RT	-A	-L	-
	Height	Length	Durometer
	↓	↓	↓
	12	100 - 300 (50mm increments)	55 (yellow)
	25		
	50		
	75		

Plastic insert for sensors



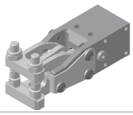
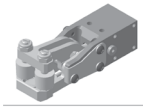
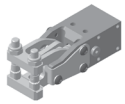
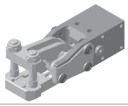
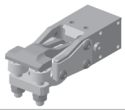
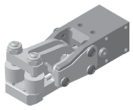
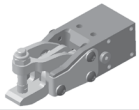
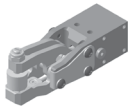
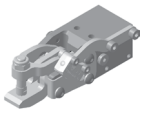
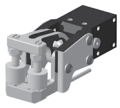
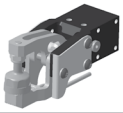
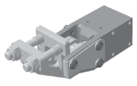
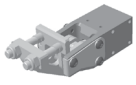
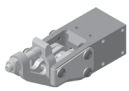
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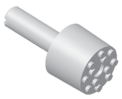
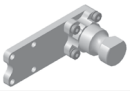
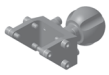
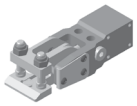
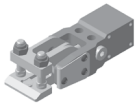
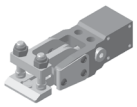
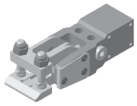
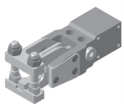
Part no.
FA-S-M3015-35-01

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Pneumatic clamp and connections

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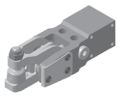
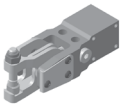
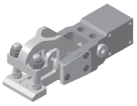
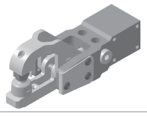
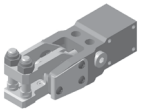
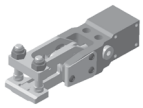
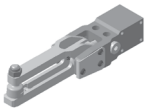
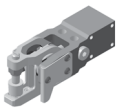
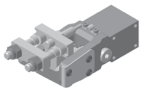
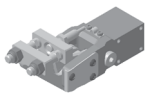
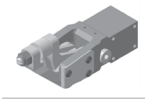
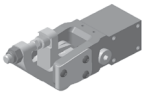
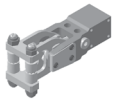
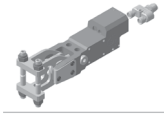
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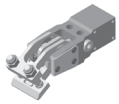
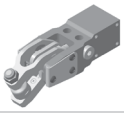
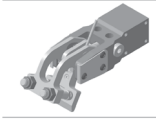
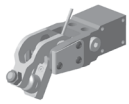
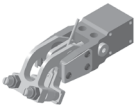
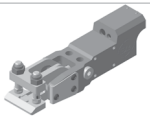
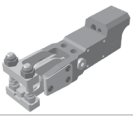
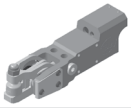
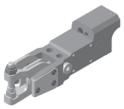
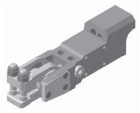
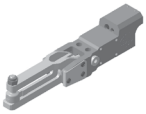
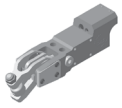
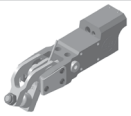
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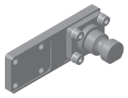
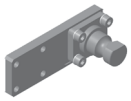
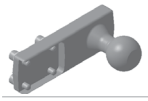
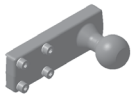
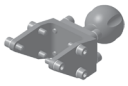
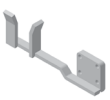
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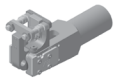
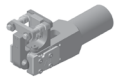
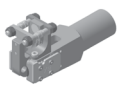
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Subject to modification
Edition 01 / 2023 - 2024 Standard

Pneumatic clamp and connections

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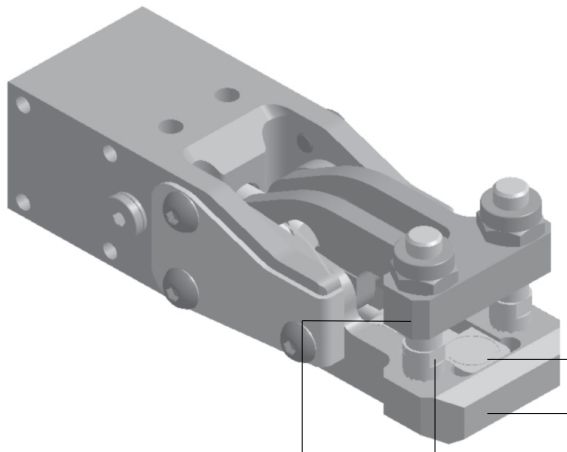
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Pneumatic clamp and connections

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Ordering information PSB-15



PSB	- 15	- I	- 01	- 35	- 03	- SP03	- FB	- S
Pneumatic clamp both-sided opening	Housing size: 15	Housing style: I, L	Execution: 01 = 2 Finger self-locking; 02 = 1 Finger self-locking	Aperture angle Upper jaw	Aperture angle Lower jaw	Clamping pin up	Fixed jaw: FB; Block jaw: B	Sensor

PSB-15

Clamping force at 6 bar: 550 N

Air consumption at 6 bar / double stroke: < 0,06 dm³

Multiple connections

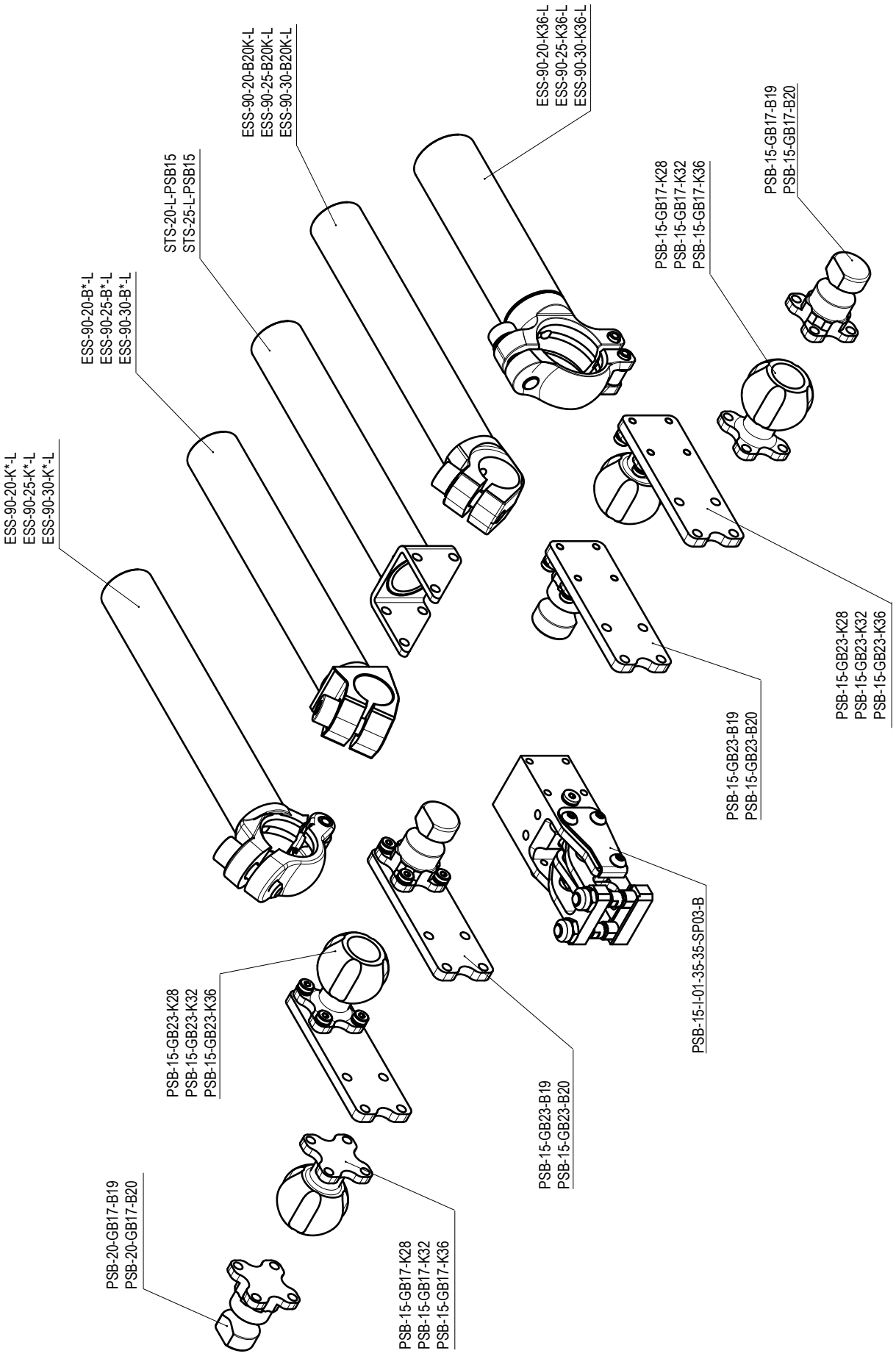
Connecting link guide

Self-locking

High strength aluminium

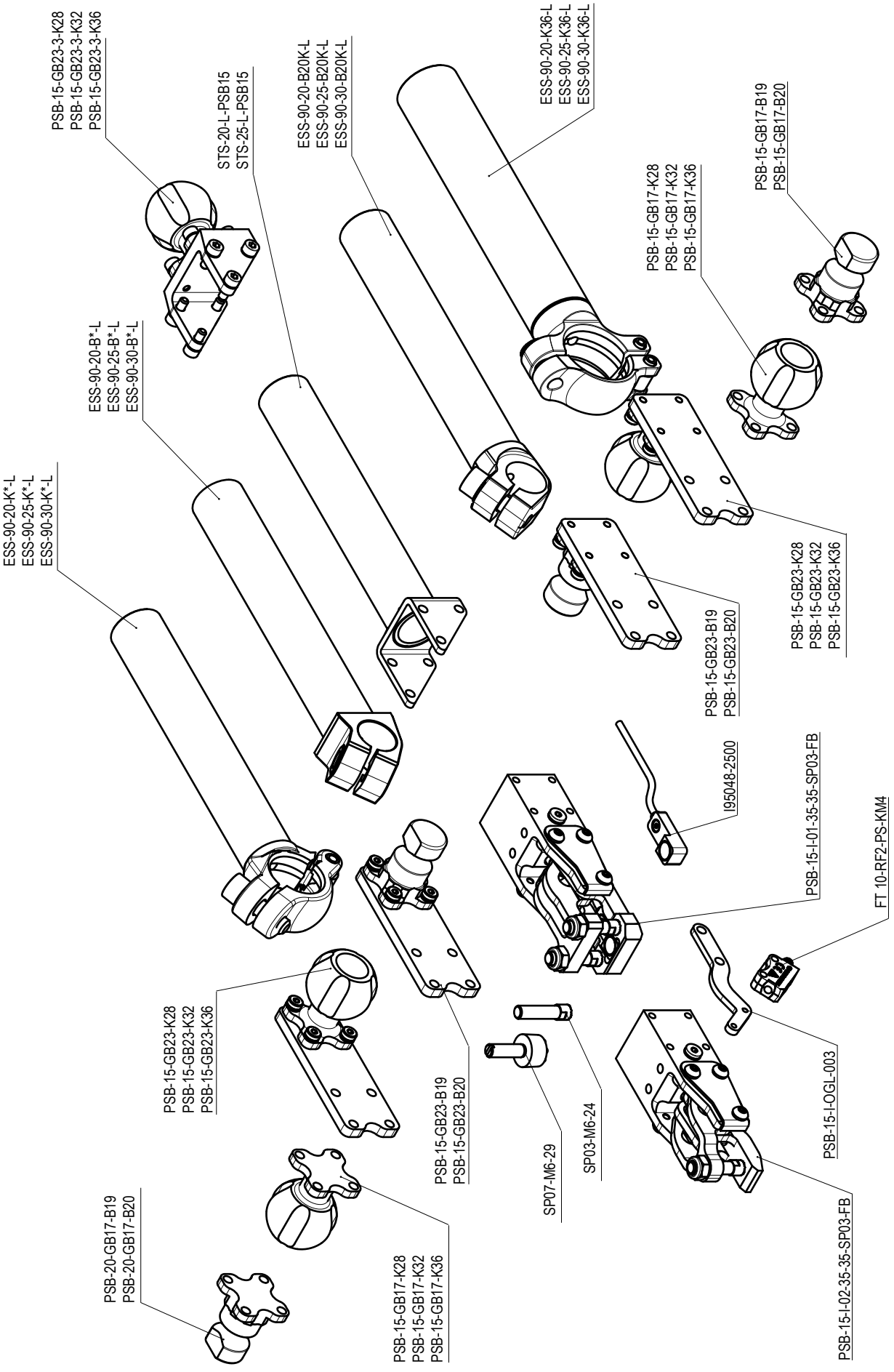
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PSB-15-I-01-35-35-SP03-B with connections



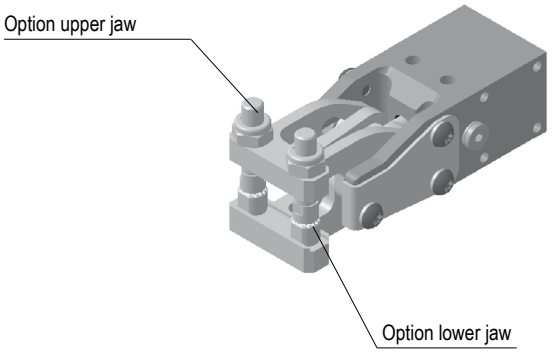
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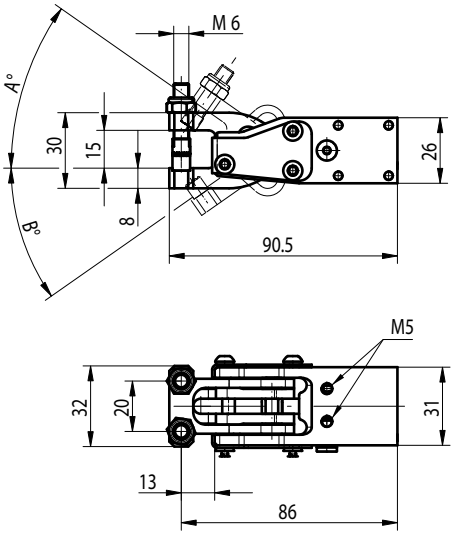
PSB-15-I-...-...-...-SP03-FB(-S) with connections



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Pneumatic clamp, PSB-15-I-01-35-35-SP03-B

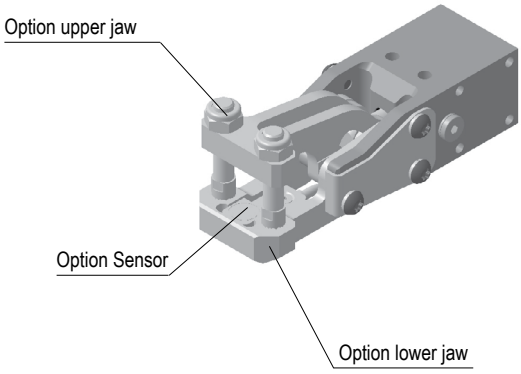


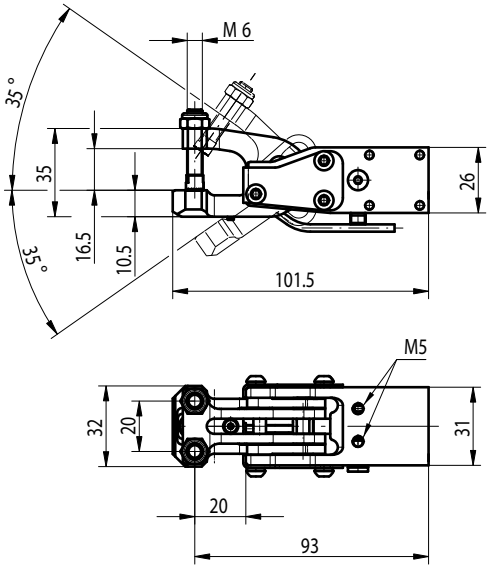


self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PSB-15-I-01-35-35-SP03-B	35	35	SP03	B	-	0.223

Pneumatic clamp, PSB-15-I-01-35-35-SP03-FB(-S)





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PSB-15-I-01-35-3-SP03-FB	35	3	SP03	FB	-	0.250
PSB-15-I-01-35-35-SP03-FB		35				
PSB-15-I-01-35-35-SP03-FB-S					S	

Option upper jaw (Clamping pin)	Part no.
SP03	SP03-M6-32

Option lower jaw	Part no.
B	PS-30-I-GD-P003

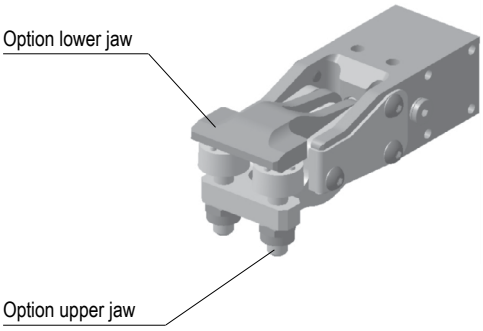
Option Sensor	Part no.
S	PSB-S-2500-PSB-15

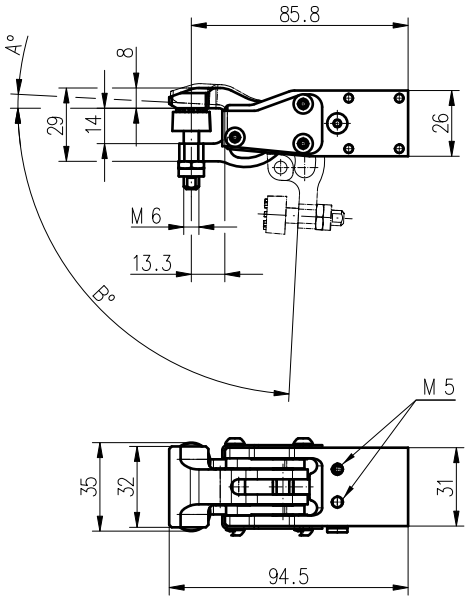
Option of upper jaw / Option Sensor: Dimensions see separate data sheet
Execution with other clamping pins on request

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Pneumatic clamp, PSB-15-I-01-3-87-SP07-FB

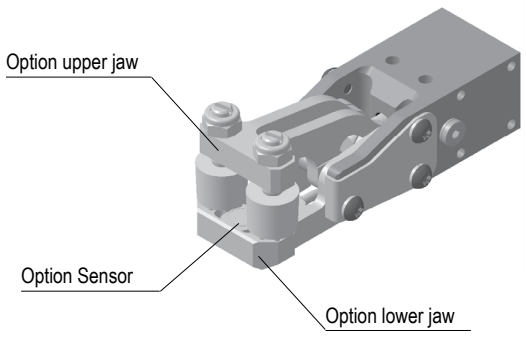


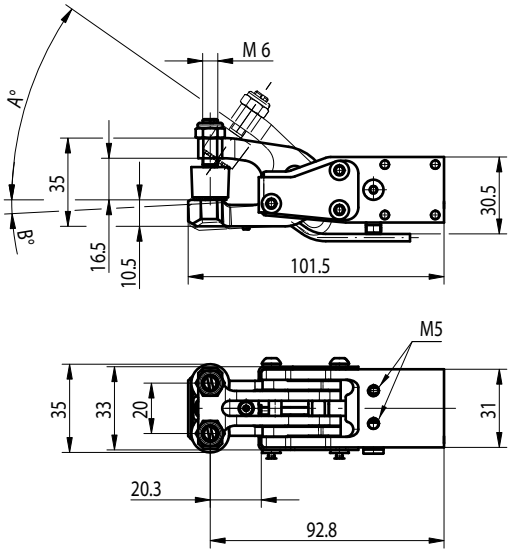


self-locking

Part no.	Aperture angle A°	Aperture angle A°	Option of upper jaw	Option of lower jaw	(kg)
PSB-15-I-01-3-87-SP07-FB	3	87	SP07	FB	0.233

Pneumatic clamp, PSB-15-I-01-...-...-SP07-FB(-S)





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PSB-15-I-01-35-3-SP07-FB	35	3	SP07	FB	-	0.258
PSB-15-I-01-35-3-SP07-FB-S					-S	
PSB-15-I-01-35-35-SP07-FB		35			-	
PSB-15-I-01-35-35-SP07-FB-S					S	

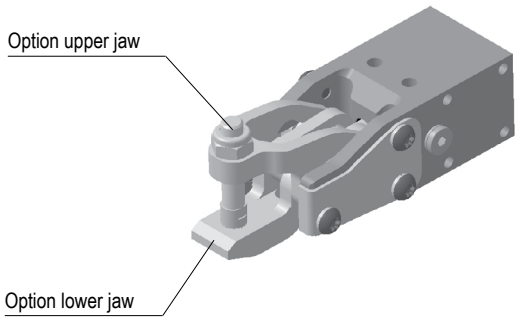
Option upper jaw (Clamping pin)	Part no.
SP07	SP07-M6-32

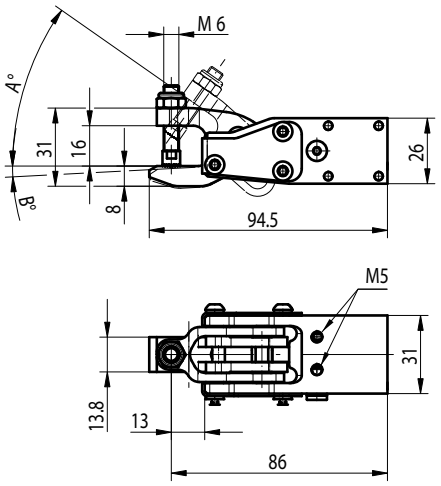
Option Sensor	Part no.
S	PSB-S-2500-PSB-15

Option of upper jaw / Option Sensor: Dimensions see separate data sheet
Execution with other clamping pins on request

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Pneumatic clamp, PSB-15-I-02-35-3-SP03-FB





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PSB-15-I-02-35-3-SP03-FB	35	3	SP03	FB	-	0.198

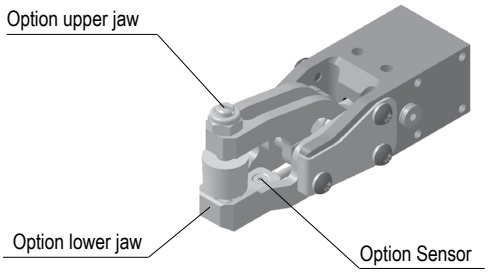
Option upper jaw (Clamping pin)	Part no.
SP03	SP03-M6-32

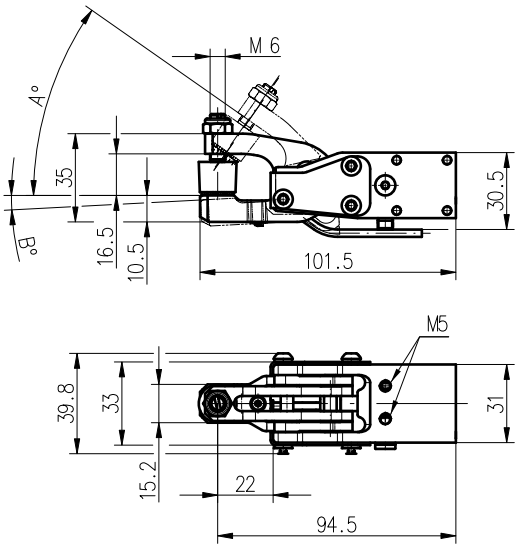
Option of upper jaw / Option Sensor: Dimensions see separate data sheet
Execution with other clamping pins on request

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Pneumatic clamp, PSB-15-I-02-...-3-SP07-FB-S(1)





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PSB-15-I-02-35-3-SP07-FB-S	35	3	SP07	FB	S	0.215
PSB-15-I-02-35-3-SP07-FB-S1					S1	
PSB-15-I-02-35-3-SP14-FB-S			SP14		S	0.225
PSB-15-I-02-35-3-SP14-FB-S1					S1	
PSB-15-I-02-83-3-SP07-FB-S	83		SP07		S	0.215
PSB-15-I-02-83-3-SP07-FB-S1					S1	
PSB-15-I-02-83-3-SP14-FB-S			SP14		S	0.225
PSB-15-I-02-83-3-SP14-FB-S1					S1	

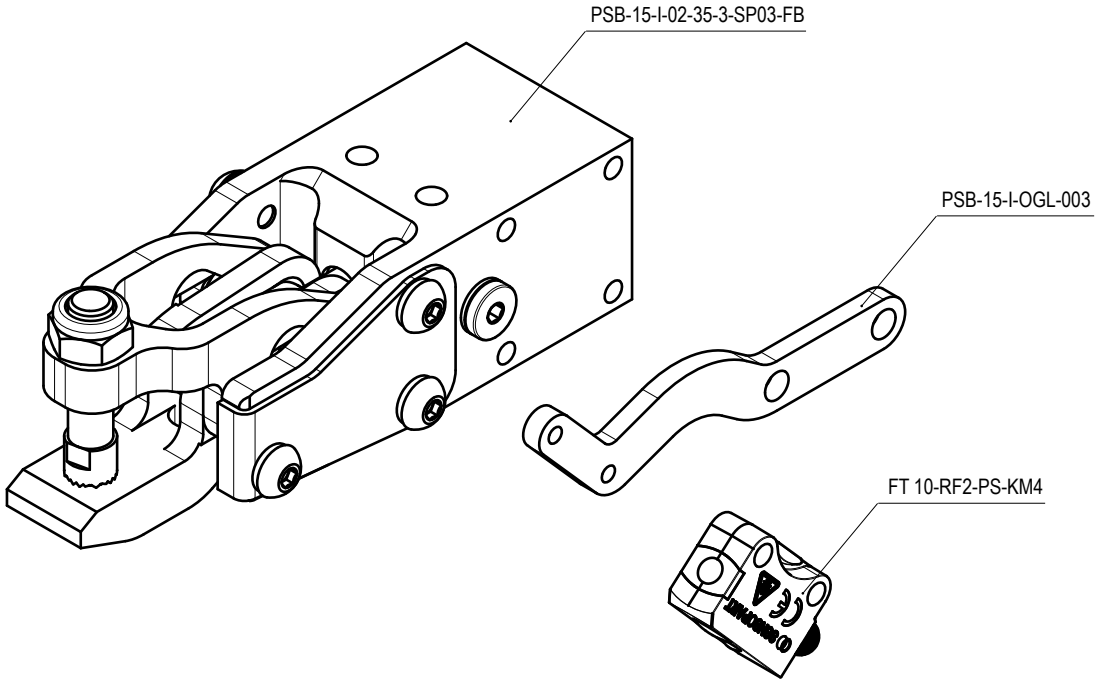
Option upper jaw (Clamping pin)	Part no.
SP07	SP07-M6-32
SP14	SP14-M6-32

Option Sensor	Part no.
S	PSB-S-2500-PSB-15
S1	PSB-S1-200-PSB-15

Option of upper jaw / Option Sensor: Dimensions see separate data sheet
Execution with other clamping pins on request

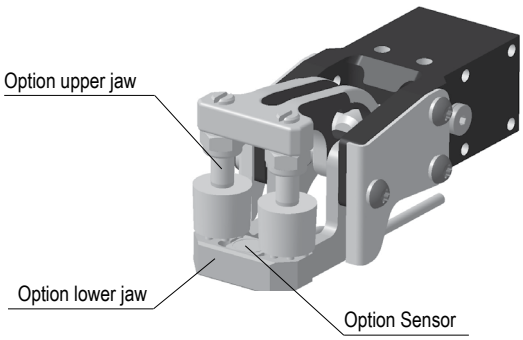
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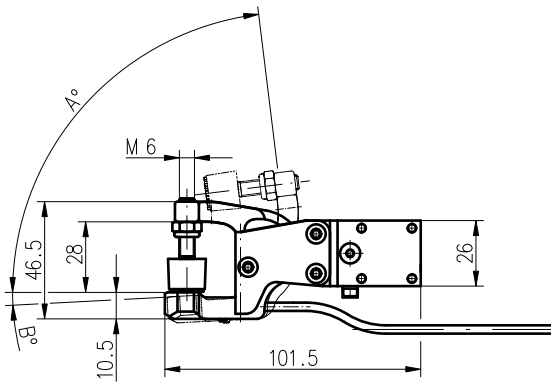
PSB-15-I-02-35-3-SP03-FB-S2



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Pneumatic clamp, PSB-15-I-45





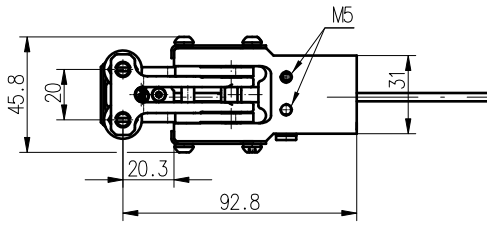


illustration PSB-15-I-45-83-3-SP07-FB-S

self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option sensor	▮ (kg)
PSB-15-I-45-83-3-SP03-FB	83	3	SP03	FB	-	0.276
PSB-15-I-45-83-3-SP03-FB-S					S	0.281
PSB-15-I-45-83-3-SP03-FB-S1					S1	0.287
PSB-15-I-45-83-3-SP07-FB			SP07		-	0.276
PSB-15-I-45-83-3-SP07-FB-S					S	0.281
PSB-15-I-45-83-3-SP07-FB-S1					S1	0.287

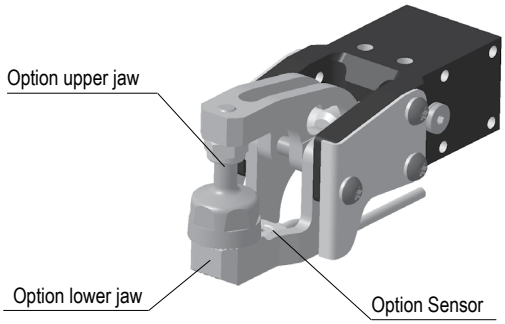
Option upper jaw (Clamping pin)	Part no.
SP03	SP03-M6-40
SP07	SP07-M6-37

Option Sensor	Part no.
S	PSB-S-2500-PSB-15
S1	PSB-S1-200-PSB-15

Option of upper jaw / Option Sensor: Dimensions see separate data sheet
Execution with other clamping pins on request

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Pneumatic clamp, PSB-15-I-46



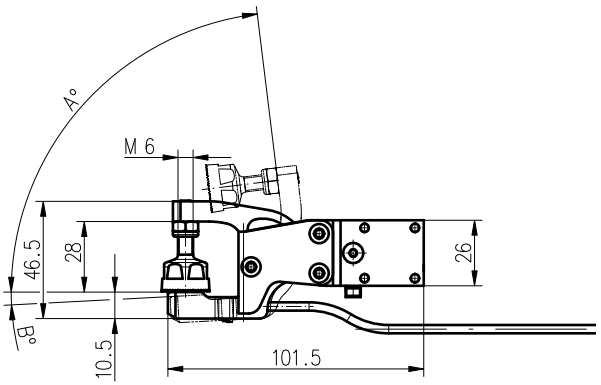
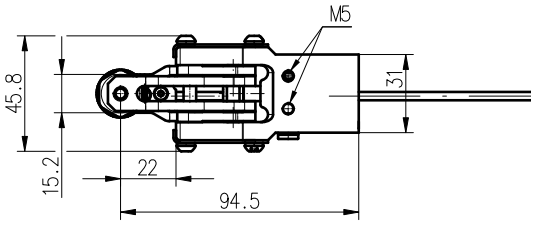


illustration PSB-15-I-46-83-3-SP14-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PSB-15-I-46-83-3-SP07-FB	83	3	SP07	FB	-	0.236
PSB-15-I-46-83-3-SP07-FB-S					S	0.241
PSB-15-I-46-83-3-SP07-FB-S1					S1	0.246
PSB-15-I-46-83-3-SP14-FB			SP14		-	0.245
PSB-15-I-46-83-3-SP14-FB-S					S	0.250
PSB-15-I-46-83-3-SP14-FB-S1					S1	0.256

Option upper jaw (Clamping pin)	Part no.
SP07	SP07-M6-37
SP14	SP14-M6-36

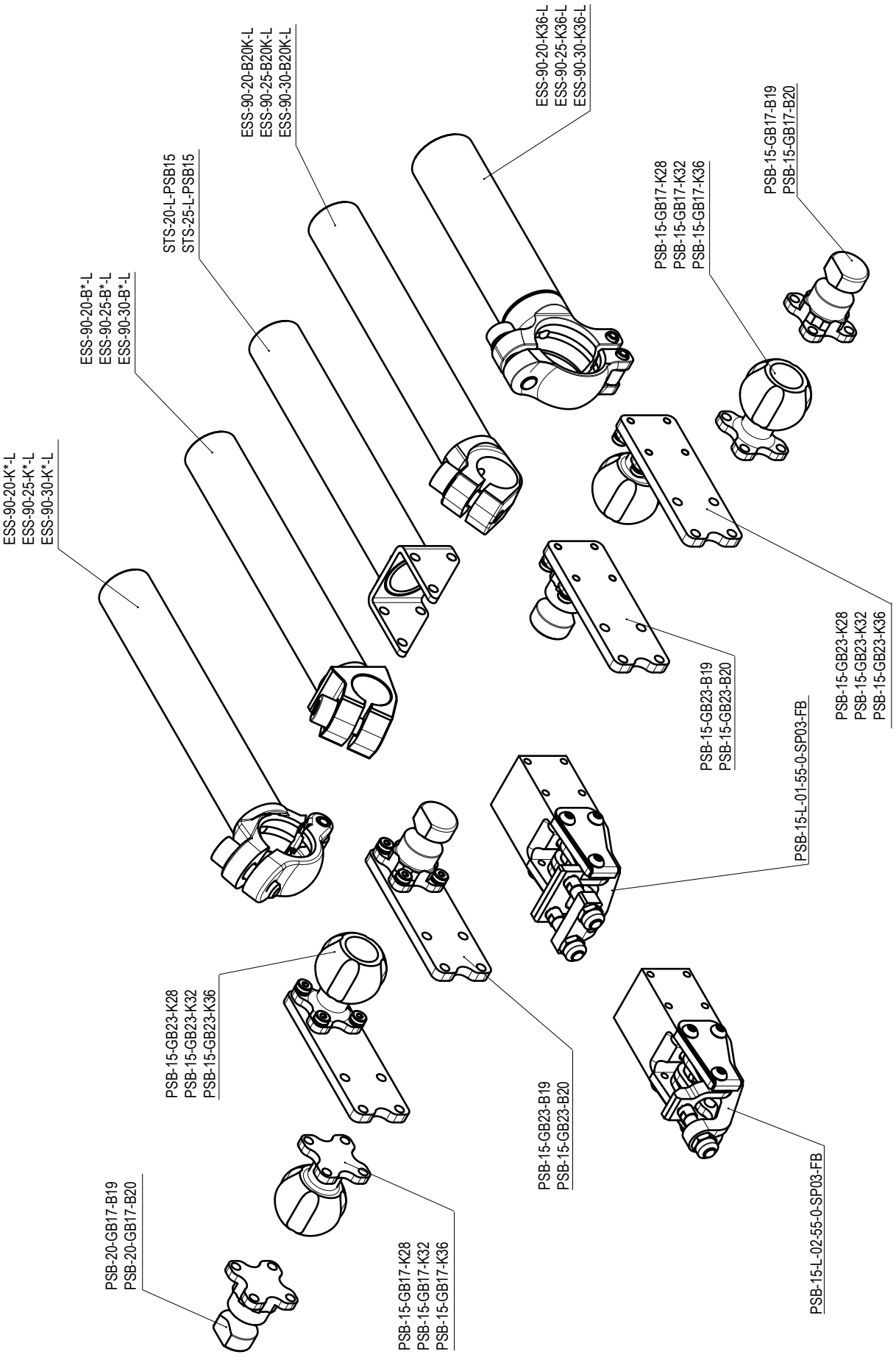
Option Sensor	Part no.
S	PSB-S-2500-PSB-15
S1	PSB-S1-200-PSB-15

Option of upper jaw / Option Sensor: Dimensions see separate data sheet
Execution with other clamping pins on request

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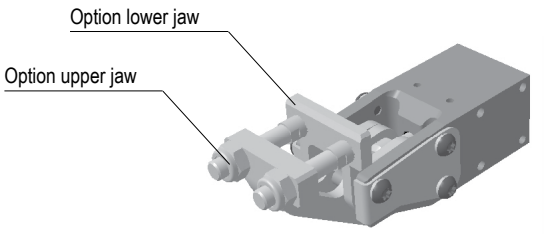
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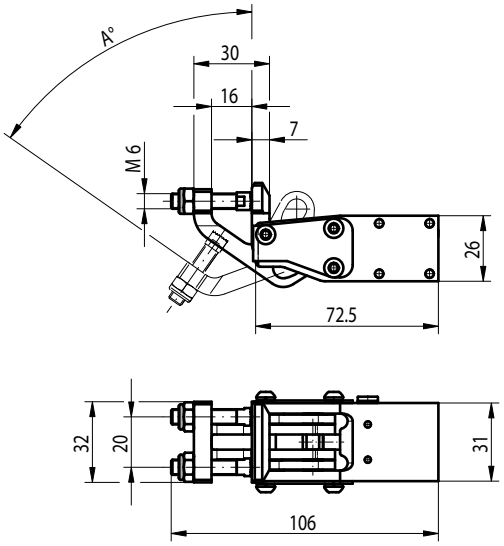
PSB-15-L-...-55-0-SP03-FB with connections



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Pneumatic clamp, PSB-15-L-01-55-0-SP03-FB

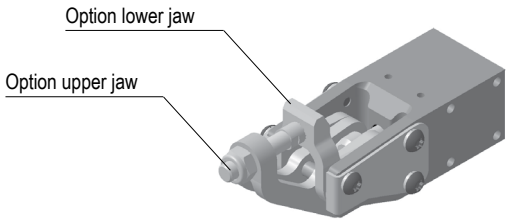


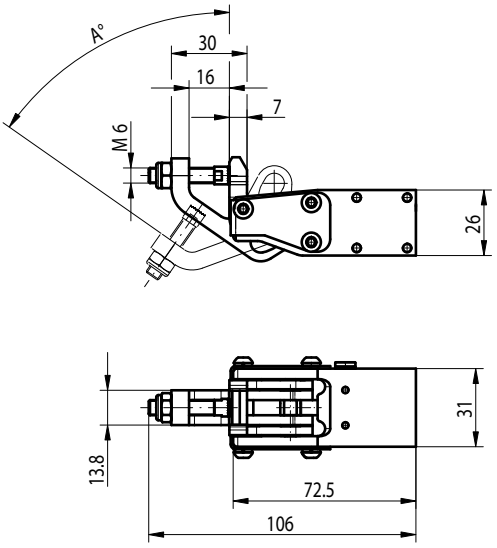


self-locking

Part no.	Aperture angle A°	Aperture angle lower jaw	Option of upper jaw	Option of lower jaw	(kg)
PSB-15-L-01-55-0-SP03-FB	55	0	SP03	FB	0.222

Pneumatic clamp, PSB-15-L-02-55-0-SP03-FB





self-locking

Part no.	Aperture angle A°	Aperture angle lower jaw	Option of upper jaw	Option of lower jaw	(kg)
PSB-15-L-02-55-0-SP03-FB	55	0	SP03	FB	0.195

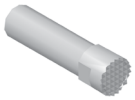
Option upper jaw (Clamping pin)	Part no.
SP03	SP03-M6-32

Option of upper jaw / Option Sensor: Dimensions see separate data sheet
Execution with other clamping pins on request

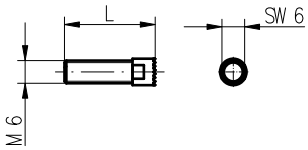
Subject to modification
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Gripper jaw

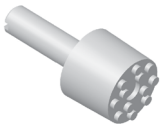


Material: Steel

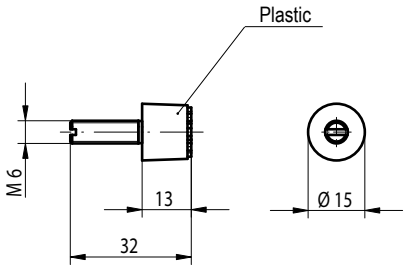


Part no.	L	(kg)
SP03-M6-24	24	0.006
SP03-M6-28	28	0.007

Clamping pin



0.008 kg
Material: Steel / Plastic



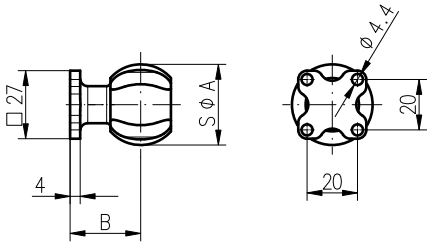
Part no.
SP07-M6-32

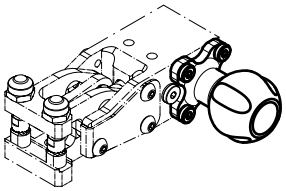
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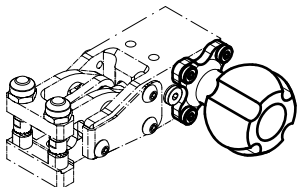
Ball mount



Material: Aluminium

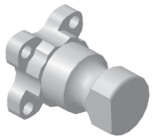




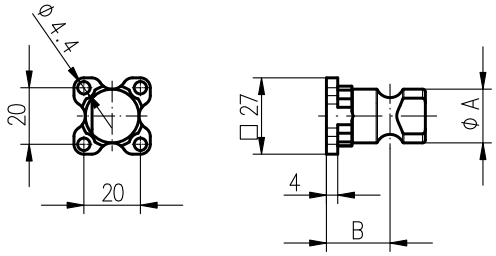


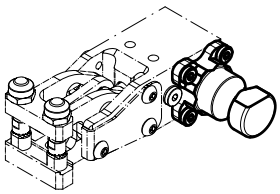
Part no.	S Ø A	B	(kg)
PSB-15-GB17-K28	28.5	25	0.031
PSB-15-GB17-K32	32.0	27	0.039
PSB-15-GB17-K36	36.0	29	0.052

Bolt mount



Material: Aluminium

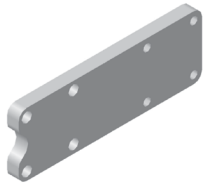


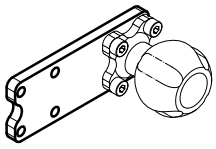


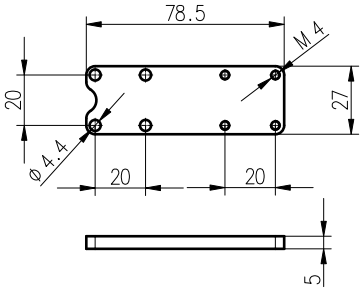
Part no.	Ø A	(kg)
PSB-15-GB17-B19	19	0.029
PSB-15-GB17-B20	20	0.039

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Mounting plate for Ball / Bolt mount



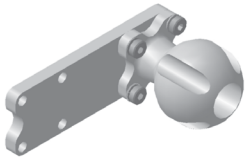




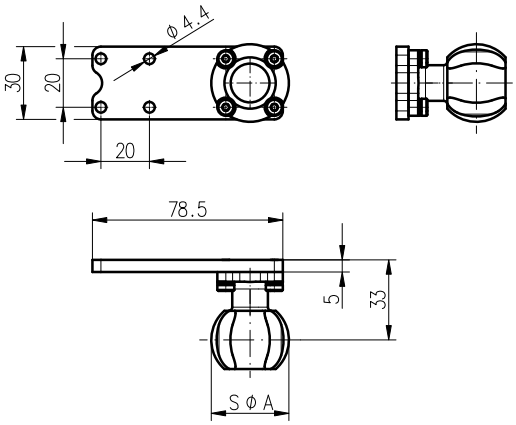
0.027 kg
Material: Aluminium

Part no.
PSB-15-GB23-P001

Mounting plate with ball

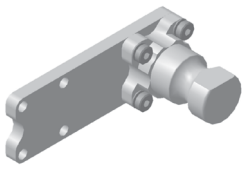


Material: Aluminium

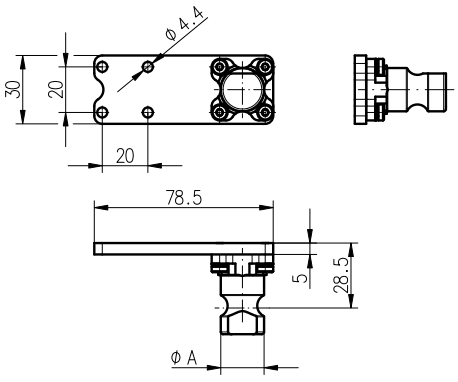


Part no.	S Ø A	(kg)
PSB-15-GB23-K28	28.5	0.058
PSB-15-GB23-K32	32.0	0.067
PSB-15-GB23-K36	36.0	0.079

Mounting plate with bolt



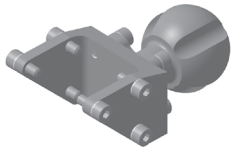
Material: Aluminium



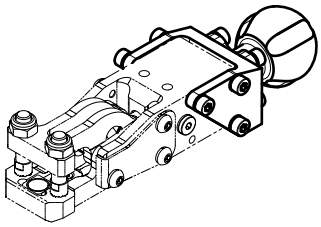
Part no.	Ø A	(kg)
PSB-15-GB23-B19	19	0.118
PSB-15-GB23-B20	20	0.120

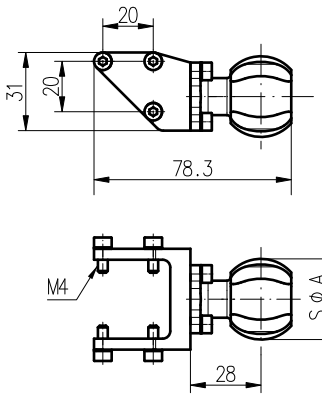
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Mounting plate with ball



Material: Aluminium



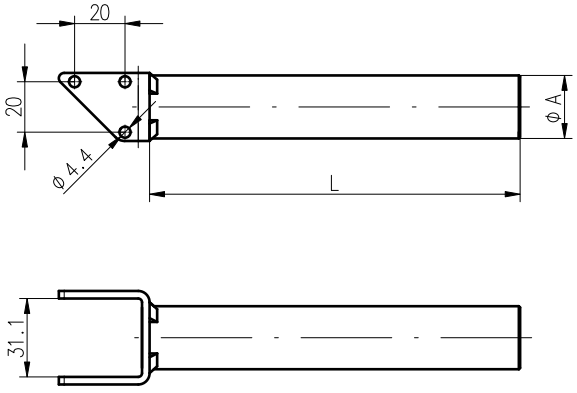


Part no.	S Ø A	(kg)
PSB-15-GB23-3-K28	28.5	0.093
PSB-15-GB23-3-K32	32.0	0.097
PSB-15-GB23-3-K36	36.0	0.109

Gripper connections



Material: Steel



Ordering information			e.g.: STS-25-200-PSB15
STS-	-A	-L	-PSB15
	Diameter	Length	
	↓	↓	
	20	200	
	25	400	
		600	

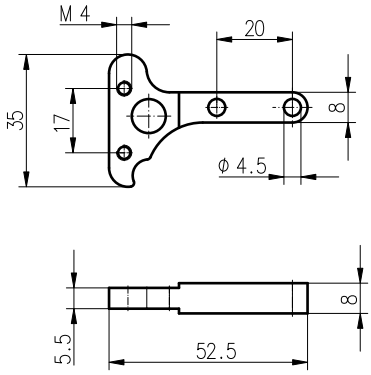
Other lengths upon request

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Mount for angle light barrier



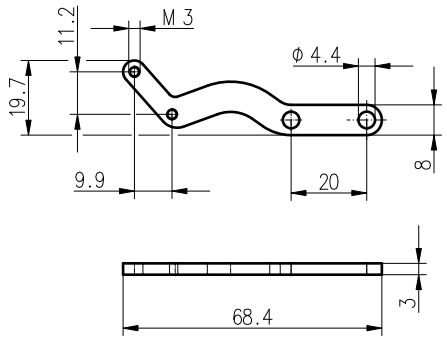


0.010 kg
Material: Aluminium

Part no.
PSB-15-I-OGL-002

Holder panel-sensor



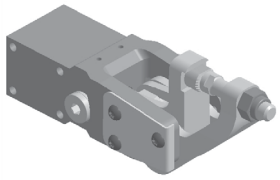


0.004 kg
Material: Aluminium

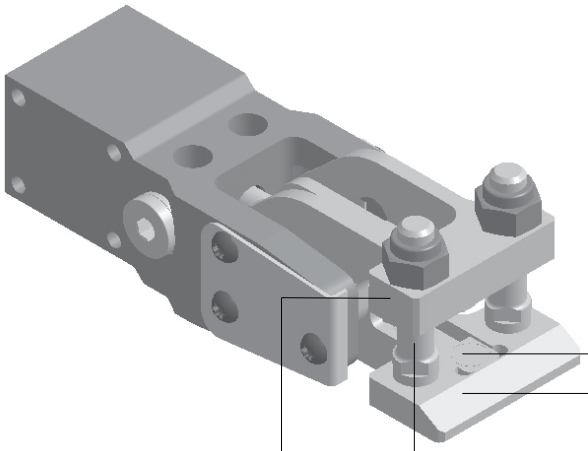
Part no.
PSB-15-I-OGL-003

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Ordering example PSB-20



Housing style L, 1 Finger: PSB-20-L-02-35-3-SP03-B



PSB	-	20	-	I	-	01	-	35	-	03	-	SP03	-	FB	-	S

- PSB: Pneumatic clamp both-sided opening
- 20: Housing size
- I: Housing style
  - I
  - L
- 01: Execution
  - 01 = 2 Finger self-locking
  - 02 = 1 Finger self-locking
  - 51 = 2 Finger without self-locking
  - 52 = 1 Finger without self-locking
- 35: Aperture angle upper jaw
  - 20
  - 54
  - 80
  - 87
- 03: Aperture angle Lower jaw
  - 03
  - 10
  - 35
  - 54
  - 80
- SP03: Clamping pin
- FB: Fixed jaw / Block jaw
  - FB
  - B
- S: Sensor

PSB-20

Clamping force at 6 bar: 800 N (self-locking)
480N (without self locking)

Air consumption at 6 bar / double stroke: 0,1 dm³

Multiple connections

Connecting link guide

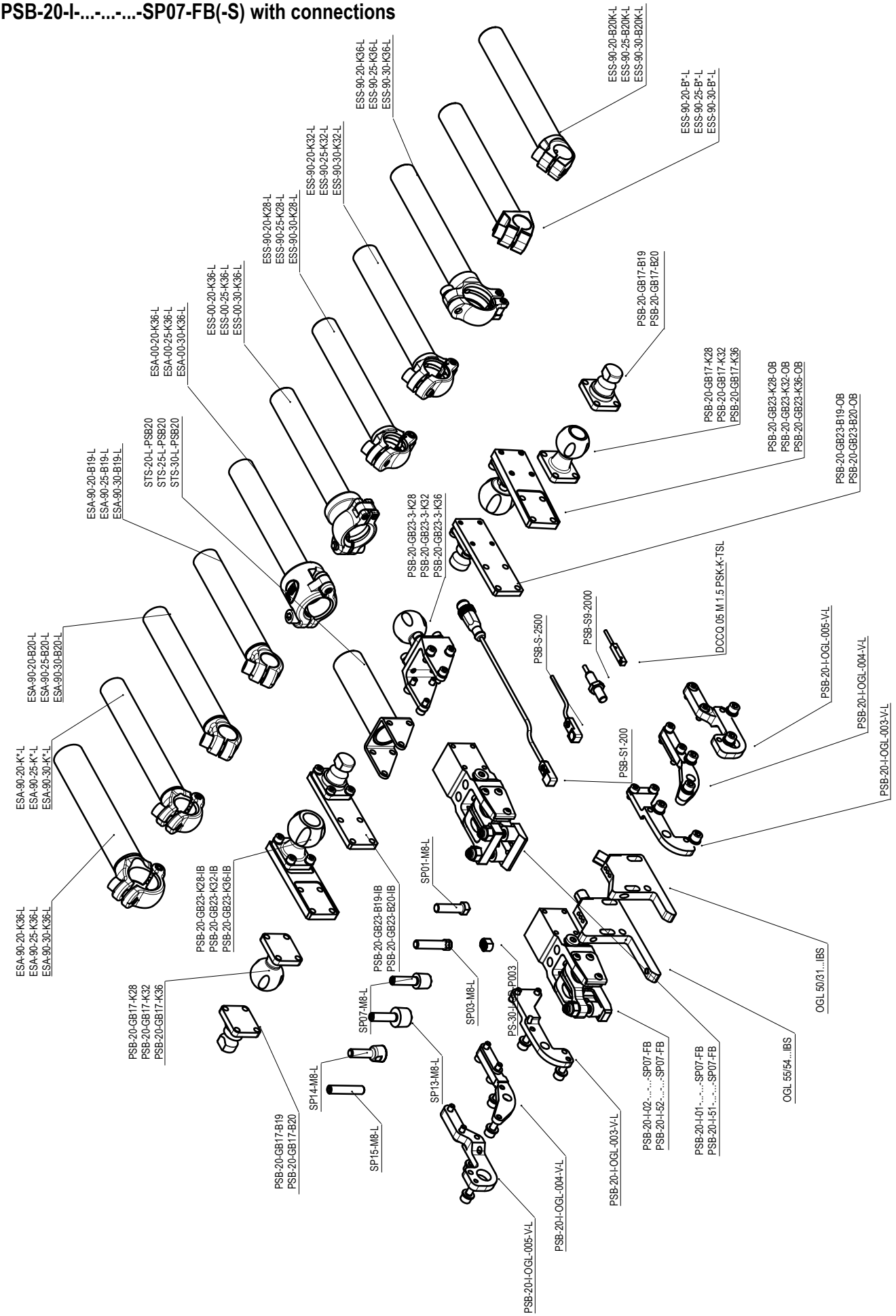
Self-locking

High strength aluminium

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PSB-20-I-...-...-...-SP07-FB(-S) with connections



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Pneumatic clamp, PSB-20-I-01-20 / PSB-20-I-01(51)-35

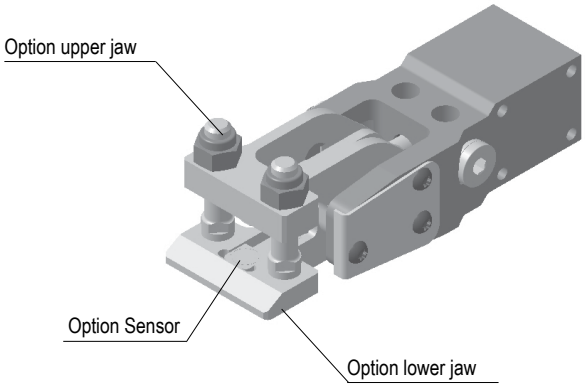
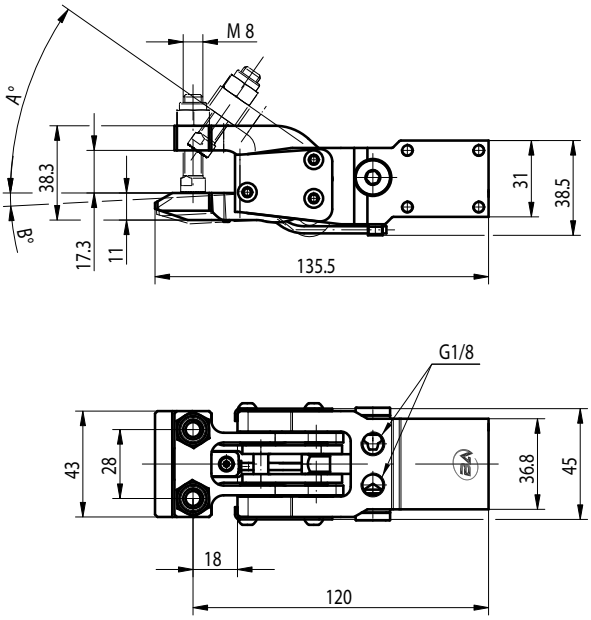


illustration PSB-20-I-01-35-3-SP03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	▮ (kg)
PSB-20-I-01-20-3-SP03-FB	20	3	SP03	FB	-	0.541
PSB-20-I-01-20-3-SP03-FB-S					S	
PSB-20-I-01-35-3-SP03-FB	35				-	
PSB-20-I-01-35-3-SP03-FB-S					S	
PSB-20-I-01-35-3-SP03-FB-S1					S1	
PSB-20-I-01-35-3-SP07-FB			SP07		-	0.542
PSB-20-I-01-35-3-SP07-FB-S					S	
PSB-20-I-01-35-3-SP13-FB			SP13		-	0.543
PSB-20-I-01-35-3-SP13-FB-S					S	
PSB-20-I-01-35-3-SP15-FB			SP15		-	0.531
PSB-20-I-01-35-3-SP15-FB-S					S	
PSB-20-I-01-35-35-SP03-FB		35	SP03		-	0.541
PSB-20-I-01-35-35-SP03-FB-S					S	
PSB-20-I-01-35-35-SP07-FB			SP07		-	0.542
PSB-20-I-01-35-35-SP07-FB-S					S	
PSB-20-I-01-35-35-SP13-FB			SP13		-	0.543
PSB-20-I-01-35-35-SP13-FB-S					S	

without self-locking

PSB-20-I-51-35-3-SP03-FB	35	3	SP03	FB	-	0.541
PSB-20-I-51-35-3-SP03-FB-S					S	
PSB-20-I-51-35-3-SP03-FB-S1					S1	

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40
SP07	SP07-M8-38
SP13	SP13-M8-38
SP15	SP15-M8-40

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-01-54

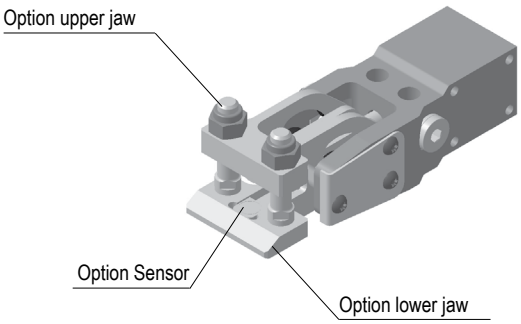
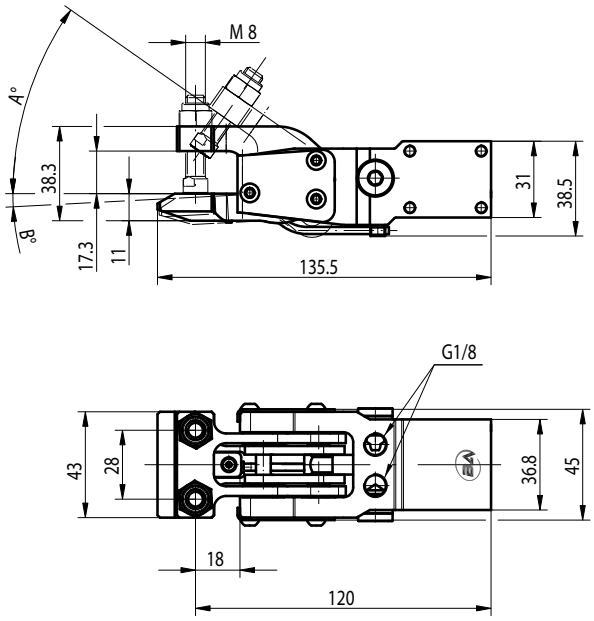


illustration PSB-20-I-01-54-3-SP03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-01-54-3-SP13-FB	54	3	SP13	FB	-	0,543
PSB-20-I-01-54-3-SP13-FB-S					S	
PSB-20-I-01-54-54-SP03-FB		54	SP03		-	0,541
PSB-20-I-01-54-54-SP03-FB-S					S	
PSB-20-I-01-54-54-SP07-FB			SP07		-	0,542
PSB-20-I-01-54-54-SP07-FB-S					S	
PSB-20-I-01-54-54-SP13-FB			SP13		-	0,543
PSB-20-I-01-54-54-SP13-FB-S					S	

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40
SP07	SP07-M8-38
SP13	SP13-M8-38

Option Sensor	Part no.
S	PSB-S-2500

Option of upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-01(51)-87

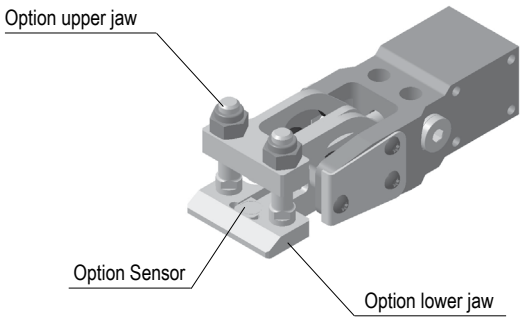
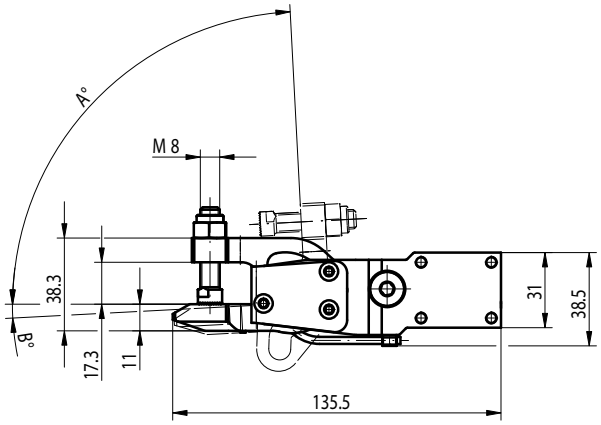
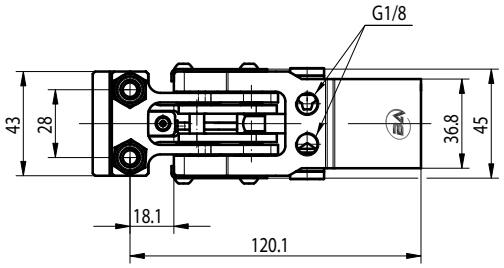


Abbildung PSB-20-I-01-87-3-SP03-FB-S





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-01-87-10-SP03-FB	87	10	SP03	FB	-	0.541
PSB-20-I-01-87-10-SP03-FB-S					S	
PSB-20-I-01-87-10-SP03-FB-S1					S1	
PSB-20-I-01-87-10-SP13-FB			SP13		-	0.543
PSB-20-I-01-87-10-SP13-FB-S					S	
PSB-20-I-01-87-3-SP03-FB		3	SP03		-	0.541
PSB-20-I-01-87-3-SP03-FB-S					S	
PSB-20-I-01-87-3-SP03-FB-S1					S1	
PSB-20-I-01-87-3-SP07-FB			SP07		-	0.542
PSB-20-I-01-87-3-SP07-FB-S					S	
PSB-20-I-01-87-3-SP07-FB-S1					S1	
PSB-20-I-01-87-3-SP13-FB			SP13		-	0.543
PSB-20-I-01-87-3-SP13-FB-S					S	
PSB-20-I-01-87-3-SP13-FB-S1					S1	
PSB-20-I-01-87-3-SP15-FB			SP15		-	0.531
PSB-20-I-01-87-3-SP15-FB-S					S	
PSB-20-I-01-87-3-SP15-FB-S1					S1	

without self-locking

PSB-20-I-51-87-3-SP03-FB	87	3	SP03	FB	-	0.541
PSB-20-I-51-87-3-SP03-FB-S					S	
PSB-20-I-51-87-3-SP03-FB-S1					S1	
PSB-20-I-51-87-3-SP13-FB			SP13		-	0.543
PSB-20-I-51-87-3-SP13-FB-S					S	
PSB-20-I-51-87-3-SP13-FB-S1					S1	

Option of upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40
SP07	SP07-M8-39
SP13	SP13-M8-39
SP15	SP15-M8-40

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option of upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-01-35 / PSB-20-I-01-87

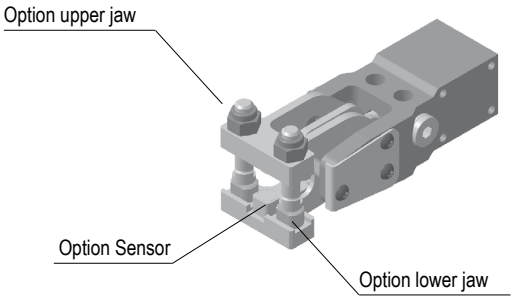
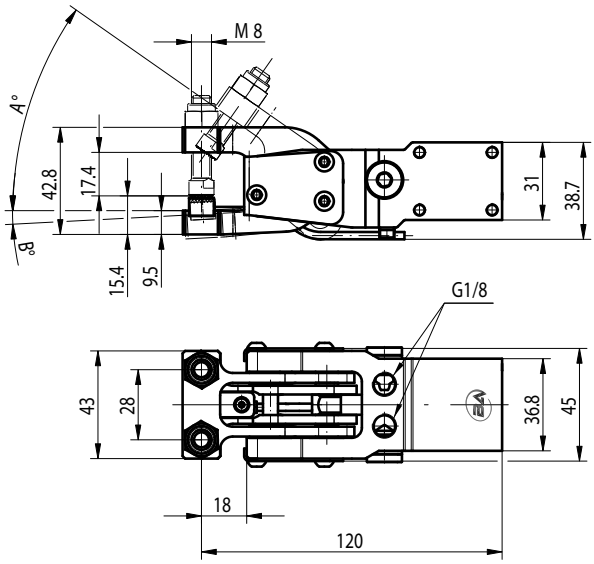


illustration PSB-20-I-01-35-3-SP03-B-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-01-35-3-SP03-B	35	3	SP03	B	-	0.550
PSB-20-I-01-35-3-SP03-B-S					S	
PSB-20-I-01-35-3-SP07-B			SP07		-	0.546
PSB-20-I-01-35-3-SP07-B-S					S	
PSB-20-I-01-35-35-SP03-B		35	SP03		-	0.550
PSB-20-I-01-35-35-SP03-B-S					S	
PSB-20-I-01-35-35-SP13-B			SP13		-	0.551
PSB-20-I-01-35-35-SP13-B-S					S	
PSB-20-I-01-35-35-SP15-B			SP15		-	0.545
PSB-20-I-01-35-35-SP15-B-S	87				S	
PSB-20-I-01-87-3-SP03-B		3	SP03		-	0.550
PSB-20-I-01-87-3-SP03-B-S					S	
PSB-20-I-01-87-3-SP03-B-S1					S1	

Option upper jaw (clamping pin)	Teile-Nr.
SP03	SP03-M8-40
SP07	SP07-M8-38
SP13	SP13-M8-38
SP15	SP15-M8-40

Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-02(52)

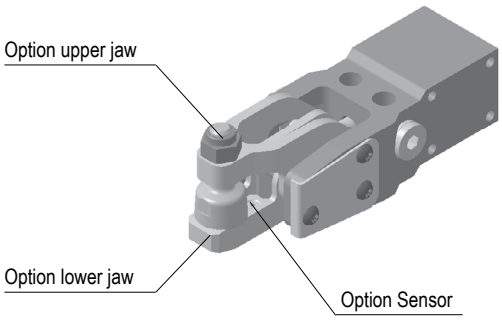
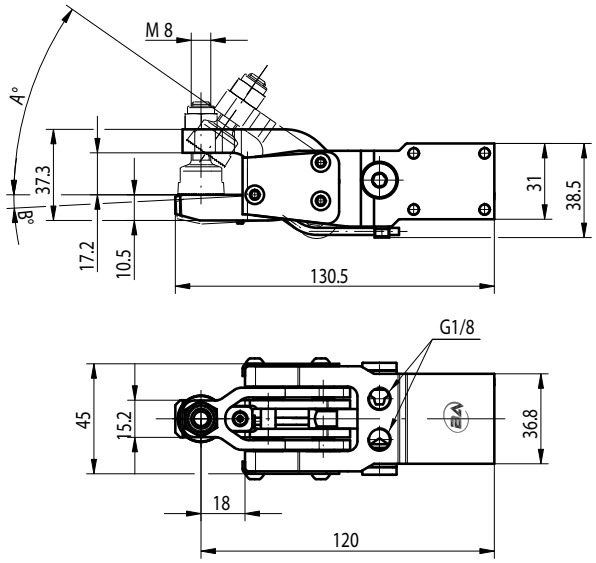


illustration PSB-20-I-52-35-3-SP14-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	⧫ (kg)
PSB-20-I-02-35-3-SP13-FB	35	3	SP13	FB	-	0.446
PSB-20-I-02-35-3-SP13-FB-S					S	
PSB-20-I-02-35-3-SP14-FB			SP14		-	0.452
PSB-20-I-02-35-3-SP14-FB-S					S	
PSB-20-I-02-35-3-SP14-FB-S1					S1	

without self-locking

PSB-20-I-52-35-3-SP13-FB	35	3	SP13	FB	-	0.446
PSB-20-I-52-35-3-SP13-FB-S					S	
PSB-20-I-52-35-3-SP13-FB-S1					S1	
PSB-20-I-52-35-3-SP14-FB			SP14		-	0.452
PSB-20-I-52-35-3-SP14-FB-S					S	
PSB-20-I-52-87-3-SP13-FB	87		SP13		-	0.446
PSB-20-I-52-87-3-SP13-FB-S					S	
PSB-20-I-52-87-3-SP14-FB			SP14		-	0.452
PSB-20-I-52-87-3-SP14-FB-S					S	
PSB-20-I-52-87-3-SP14-FB-S1					S1	
PSB-20-I-52-87-3-SP07-FB-S1			SP07		S1	0.446

Option upper jaw (clamping pin)	Part no.
SP07	SP07-M8-34
SP13	SP13-M8-34
SP14	SP14-M8-38

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-02-20 / PSB-20-I-02-35

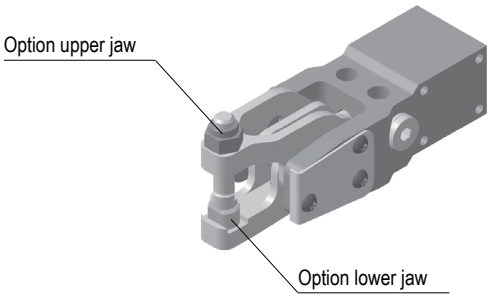
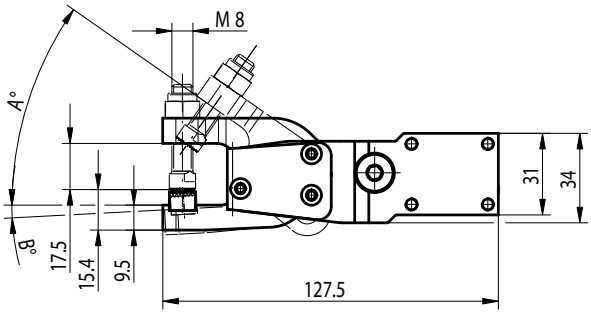
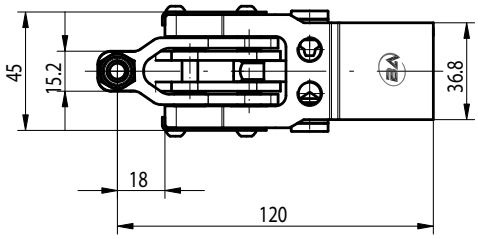


illustration PSB-20-I-02-35-3-SP03-B





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-02-20-3-SP07-B	20	3	SP07	B	-	0.467
PSB-20-I-02-35-3-SP03-B	35		SP03			
PSB-20-I-02-35-3-SP07-B			SP07			
PSB-20-I-02-35-35-SP03-B			SP03			
PSB-20-I-02-35-35-SP15-B			SP15			0.464

Option upper jaw (clamping pin)	Teile-Nr.
SP03	SP03-M8-40
SP07	SP07-M8-38
SP15	SP15-M8-40

Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option upper jaw: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-03-62

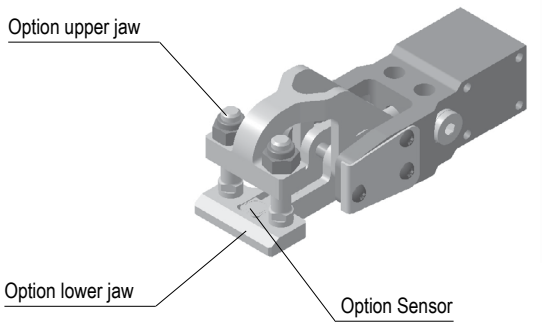
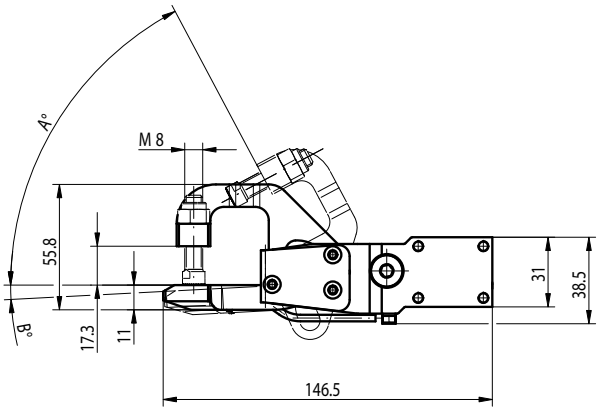
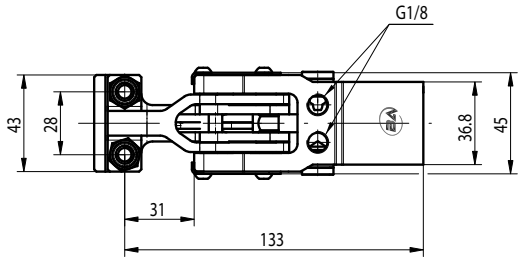


illustration PSB-20-I-03-62-3-SP03-FB-S





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	▟ (kg)
PSB-20-I-03-62-3-SP03-FB	62	3	SP03	FB	-	0.600
PSB-20-I-03-62-3-SP03-FB-S					S	
PSB-20-I-03-62-3-SP07-FB			SP07		-	0.601
PSB-20-I-03-62-3-SP07-FB-S					S	
PSB-20-I-03-62-3-SP13-FB			SP13		-	0.603
PSB-20-I-03-62-3-SP13-FB-S					S	
PSB-20-I-03-62-3-SP15-FB			SP15		-	0.597
PSB-20-I-03-62-3-SP15-FB-S					S	

Option upper jaw (clamping pin)	Teile-Nr.
SP03	SP03-M8-40
SP07	SP07-M8-38
SP13	SP13-M8-38
SP15	SP15-M8-40

Option Sensor	Part no.
S	PSB-S-2500

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-04-62

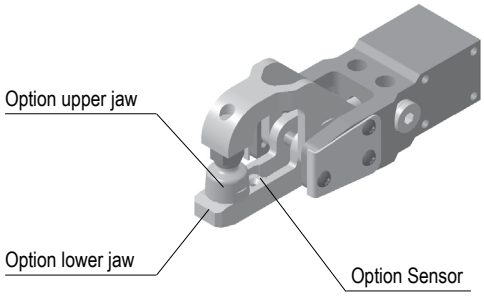
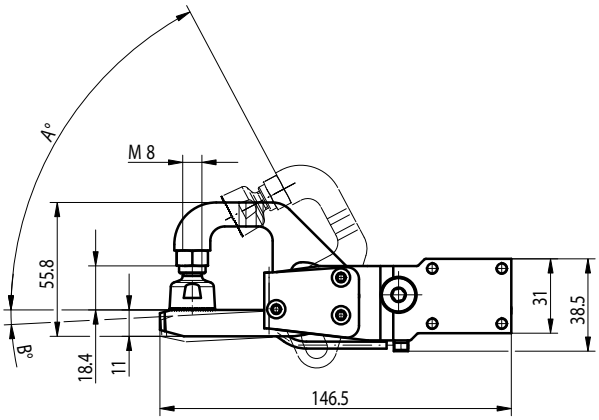
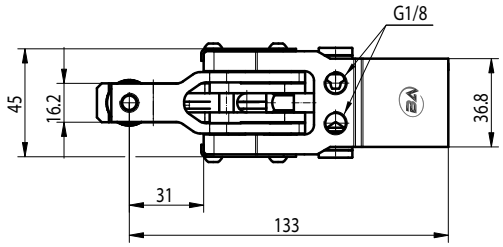


illustration PSB-20-I-04-62-3-SP14-FB-S





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-04-62-3-SP13-FB-S1	62	3	SP13	FB	S1	0.524
PSB-20-I-04-62-3-SP14-FB			SP14		-	
PSB-20-I-04-62-3-SP14-FB-S					S	
PSB-20-I-04-62-3-SP14-FB-S1					S1	

Option upper jaw (clamping pin)	Teile-Nr.
SP13	SP13-M8-38
SP14	SP14-M8-38

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-09(59)

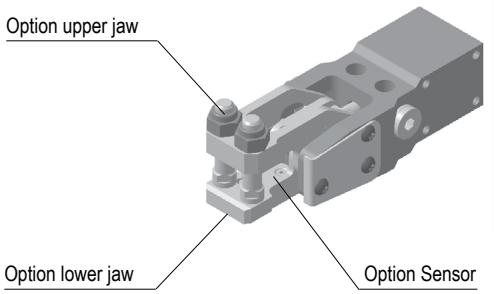
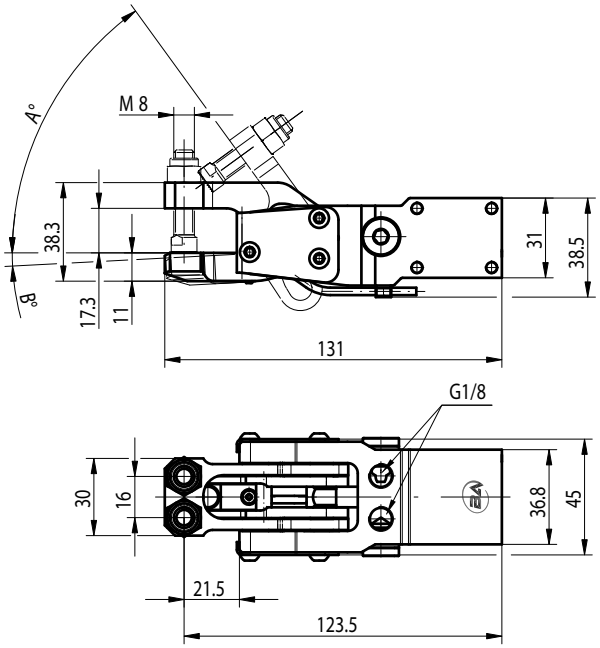


illustration PSB-20-I-09-54-3-SP03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-09-54-3-SP03-FB	54	3	SP03	FB	-	0.505
PSB-20-I-09-54-3-SP03-FB-S					S	
PSB-20-I-09-87-3-SP03-FB	87	3	SP03	FB	-	0.505
PSB-20-I-09-87-3-SP03-FB-S					S	
PSB-20-I-09-87-3-SP03-FB-S1					S1	
PSB-20-I-09-87-3-SP07-FB			SP07		-	0.498
PSB-20-I-09-87-3-SP07-FB-S					S	
PSB-20-I-09-87-3-SP07-FB-S1					S1	

without self-locking

PSB-20-I-59-87-3-SP03-FB	87	3	SP03	FB	-	0.505
PSB-20-I-59-87-3-SP03-FB-S					S	
PSB-20-I-59-87-3-SP03-FB-S1					S1	

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40
SP07	SP07-M8-38

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-11

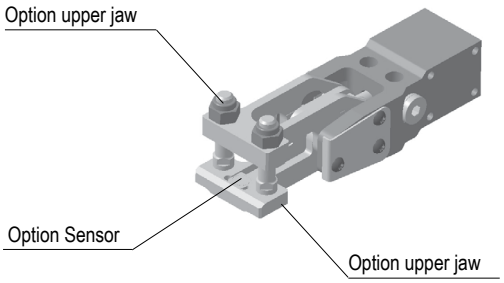
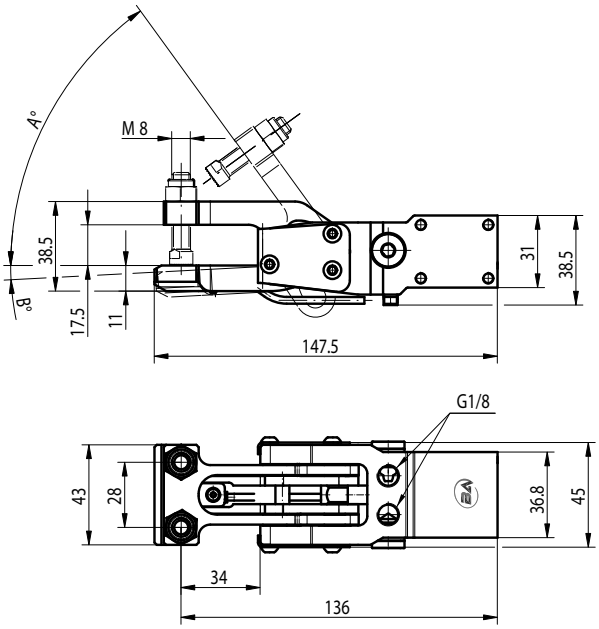


illustration PSB-20-I-11-54-3-SP03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-11-54-3-SP03-FB	54	3	SP03	FB	-	0.560
PSB-20-I-11-54-3-SP03-FB-S					S	
PSB-20-I-11-54-3-SP03-FB-S1					S1	
PSB-20-I-11-54-3-SP07-FB			SP07		-	0.562
PSB-20-I-11-54-3-SP07-FB-S					S	
PSB-20-I-11-54-3-SP07-FB-S1					S1	
PSB-20-I-11-54-3-SP13-FB			SP13		-	0.564
PSB-20-I-11-54-3-SP13-FB-S					S	
PSB-20-I-11-54-3-SP13-FB-S1					S1	
PSB-20-I-11-87-3-SP03-FB	87		SP03		-	0.560
PSB-20-I-11-87-3-SP03-FB-S					S	
PSB-20-I-11-87-3-SP03-FB-S1					S1	
PSB-20-I-11-87-3-SP15-FB			SP15		-	0.554
PSB-20-I-11-87-3-SP15-FB-S					S	
PSB-20-I-11-87-3-SP15-FB-S1					S1	

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40
SP07	SP07-M8-38
SP13	SP13-M8-38
SP15	SP15-M8-40

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-22

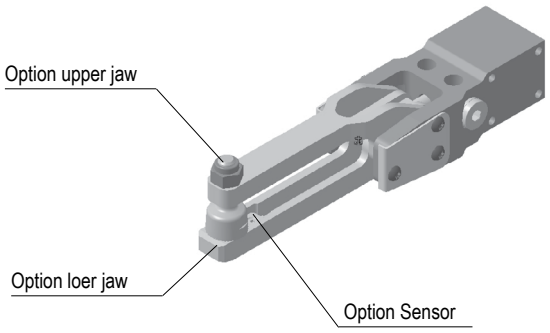
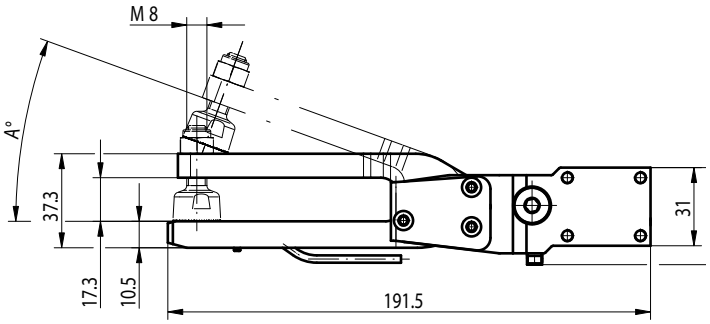
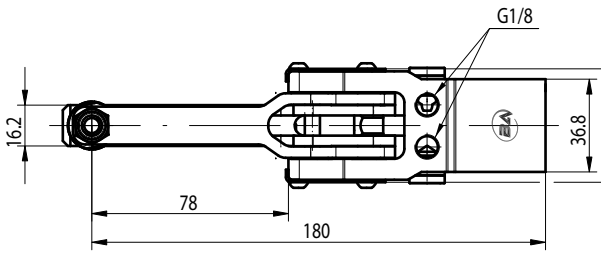


illustration PSB-20-I-22-20-0-SP14-FB-S





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-22-20-0-SP13-FB	20	0	SP13	FB	-	0.573
PSB-20-I-22-20-0-SP13-FB-S					S	
PSB-20-I-22-20-0-SP13-FB-S1					S1	
PSB-20-I-22-20-0-SP14-FB			SP14		-	0.581
PSB-20-I-22-20-0-SP14-FB-S					S	
PSB-20-I-22-20-0-SP14-FB-S1					S1	

Option upper jaw (clamping pin)	Part no.
SP13	SP13-M8-38
SP14	SP14-M8-38

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-45

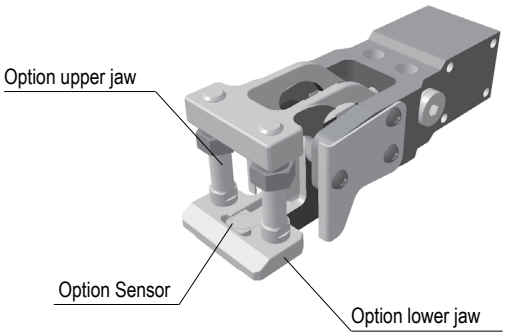
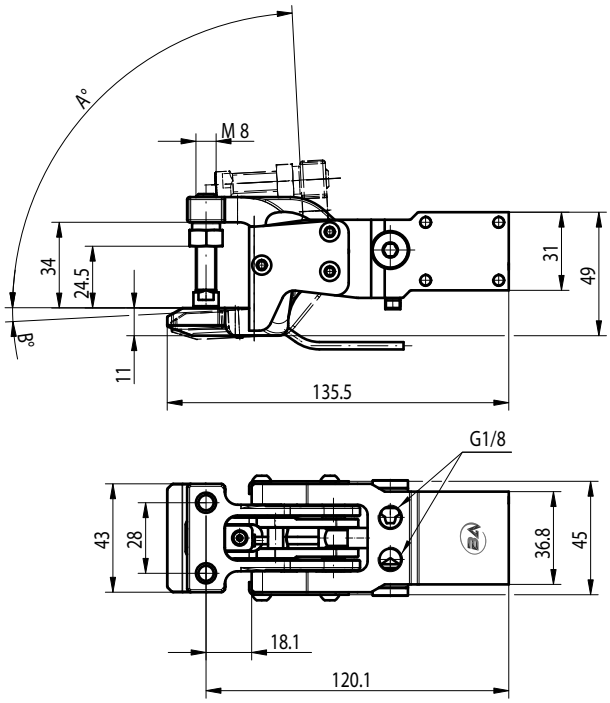


illustration PSB-20-I-45-87-3-SP03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-45-87-3-SP03-FB	87	3	SP03	FB	-	0.556
PSB-20-I-45-87-3-SP03-FB-S					S	0.561
PSB-20-I-45-87-3-SP03-FB-S1					S1	0.567
PSB-20-I-45-87-3-SP07-FB			SP07		-	0.557
PSB-20-I-45-87-3-SP07-FB-S					S	0.562
PSB-20-I-45-87-3-SP07-FB-S1					S1	0.568
PSB-20-I-45-87-3-SP13-FB			SP13		-	0.569
PSB-20-I-45-87-3-SP13-FB-S					S	0.564
PSB-20-I-45-87-3-SP13-FB-S1					S1	0.570
PSB-20-I-45-87-3-SP15-FB			SP15		-	0.553
PSB-20-I-45-87-3-SP15-FB-S					S	0.558
PSB-20-I-45-87-3-SP15-FB-S1					S1	0.564

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-45
SP07	SP07-M8-48
SP13	SP13-M8-48
SP15	SP15-M8-45

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option of upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-46(96)

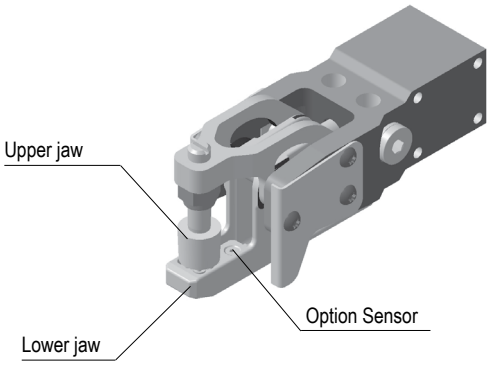
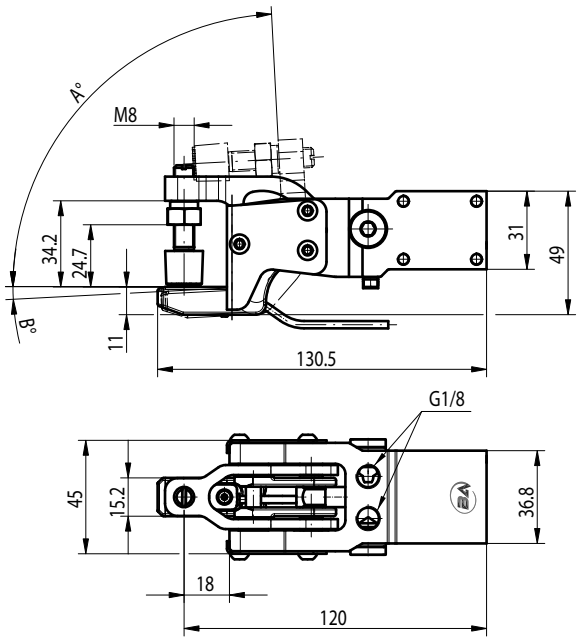


illustration PSB-20-I-46-87-3-SP07-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-46-87-3-SP07-FB	87	3	SP07	FB	-	0.457
PSB-20-I-46-87-3-SP07-FB-S					S	0.462
PSB-20-I-46-87-3-SP07-FB-S1					S1	0.468
PSB-20-I-46-87-3-SP13-FB			SP13		-	0.458
PSB-20-I-46-87-3-SP13-FB-S					S	0.463
PSB-20-I-46-87-3-SP13-FB-S1					S1	0.469
PSB-20-I-46-87-3-SP14-FB			SP14		-	0.464
PSB-20-I-46-87-3-SP14-FB-S					S	0.470
PSB-20-I-46-87-3-SP14-FB-S1					S1	0.475

without self-locking

PSB-20-I-96-87-3-SP07-FB	87	3	SP07	FB	-	0.457
PSB-20-I-96-87-3-SP07-FB-S					S	0.462
PSB-20-I-96-87-3-SP07-FB-S1					S1	0.468
PSB-20-I-96-87-3-SP13-FB			SP13		-	0.458
PSB-20-I-96-87-3-SP13-FB-S					S	0.463
PSB-20-I-96-87-3-SP13-FB-S1					S1	0.469
PSB-20-I-96-87-3-SP14-FB			SP14		-	0.464
PSB-20-I-96-87-3-SP14-FB-S					S	0.470
PSB-20-I-96-87-3-SP14-FB-S1					S1	0.475

Option of upper jaw	Part no.
SP07	SP07-M8-44
SP13	SP13-M8-44
SP14	SP14-M8-45

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option of upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-95-87

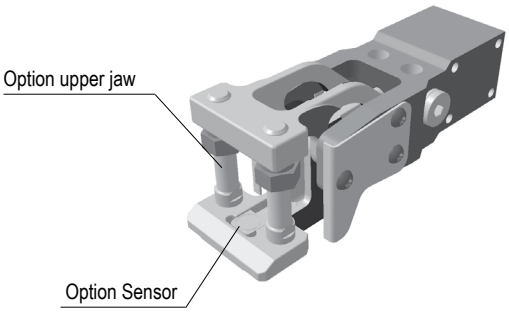
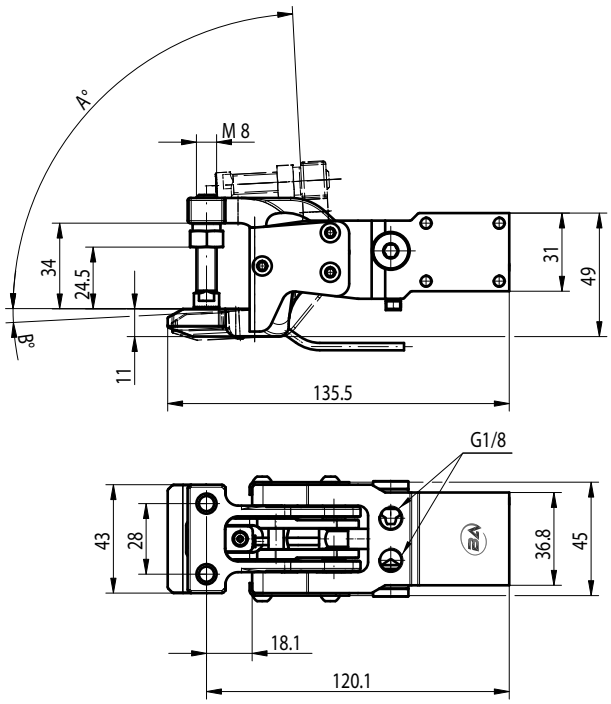


illustration PSB-20-I-95-87-3-SP03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-95-87-3-SP03-FB	87	3	SP03	FB	-	0.556
PSB-20-I-95-87-3-SP03-FB-S					S	0.561
PSB-20-I-95-87-3-SP03-FB-S1					S1	0.567
PSB-20-I-95-87-3-SP07-FB			SP07		-	0.557
PSB-20-I-95-87-3-SP07-FB-S					S	0.562
PSB-20-I-95-87-3-SP07-FB-S1					S1	0.568
PSB-20-I-95-87-3-SP13-FB			SP13		-	0.559
PSB-20-I-95-87-3-SP13-FB-S					S	0.564
PSB-20-I-95-87-3-SP13-FB-S1					S1	0.570
PSB-20-I-95-87-3-SP15-FB			SP15		-	0.553
PSB-20-I-95-87-3-SP15-FB-S					S	0.558
PSB-20-I-95-87-3-SP15-FB-S1					S1	0.564

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-45
SP07	SP07-M8-48
SP13	SP13-M8-48
SP15	SP15-M8-45

Option Sensor	Part no.
S	PSB-S-2500
S1	PSB-S1-200

Option of upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-L-01(51)

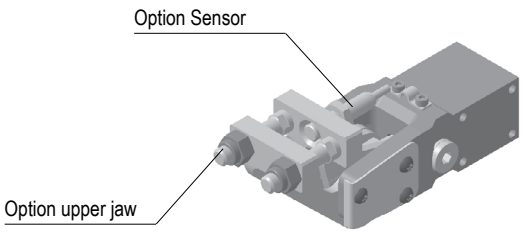
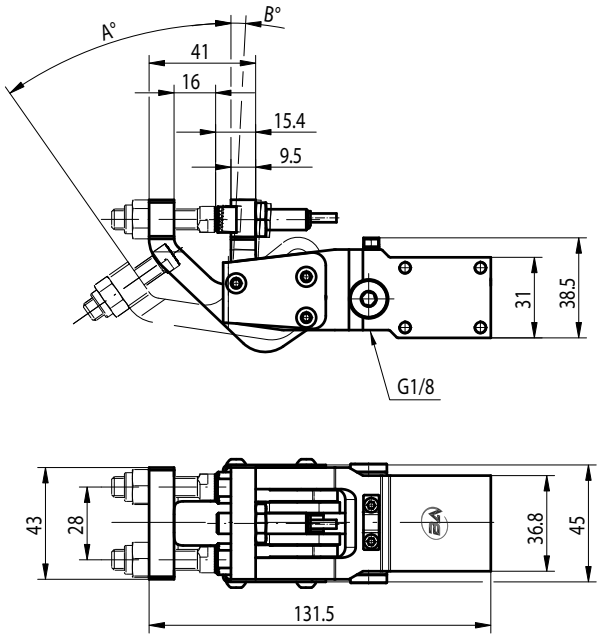


illustration PSB-20-L-51-62-3-SP13-FB-S9



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-L-01-62-3-SP13-FB	62	3	SP13	FB	-	0.534
PSB-20-L-01-62-3-SP13-FB-S9					S9	0.544
PSB-20-L-01-62-3-SP15-FB			SP15		-	0.532
PSB-20-L-01-62-3-SP15--FB-S9					S9	0.542

without self-locking

PSB-20-L-51-62-3-SP03-FB	62	3	SP03	FB	-	0.545
PSB-20-L-51-62-3-SP03-FB-S9					S9	0.555

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40
SP13	SP13-M8-38
SP15	SP13-M8-40

Option Sensor	Part no.
S9	PSB-S-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp and connections

Pneumatic clamp, PSB-20-L-01(51)

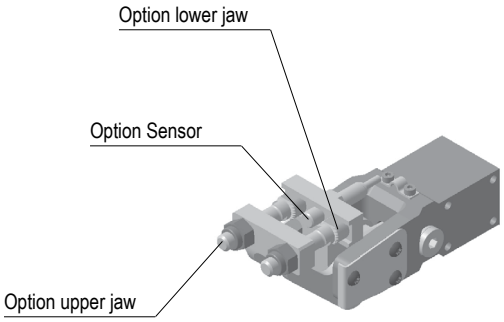
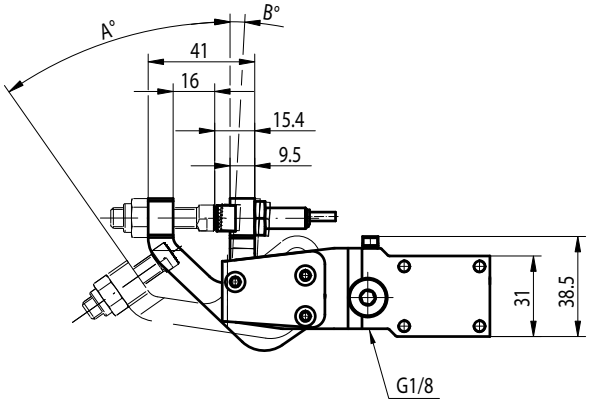
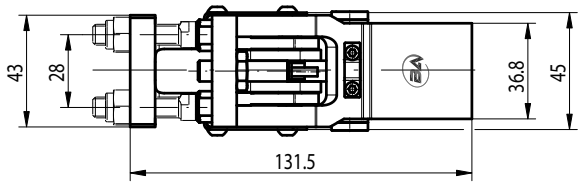


illustration PSB-20-L-01-35-3-SP03-B-S9





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	▮ (kg)
PSB-20-L-01-35-3-SP03-B	35	3	SP03	B	-	0.538
PSB-20-L-01-35-3-SP03-B-S9					S9	0.548
PSB-20-L-01-35-3-SP07-B			SP07		-	0.565
PSB-20-L-01-35-3-SP07-B-S9					S9	0.575
PSB-20-L-01-35-3-SP13-B			SP13		-	0.571
PSB-20-L-01-35-3-SP13-B-S9					S9	0.581
PSB-20-L-01-62-3-SP03-B	62		SP03		-	0.538
PSB-20-L-01-62-3-SP03-B-S9					S9	0.548

without self-locking

PSB-20-L-51-35-3-SP03-B	35	3	SP03	B	-	0.538

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40
SP07	SP07-M8-38
SP13	SP13-M8-38

Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option Sensor	Part no.
S9	PSB-S-200

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-L-02-62

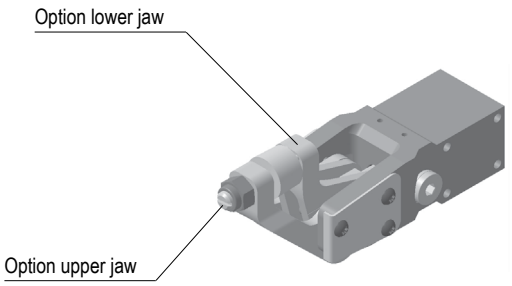
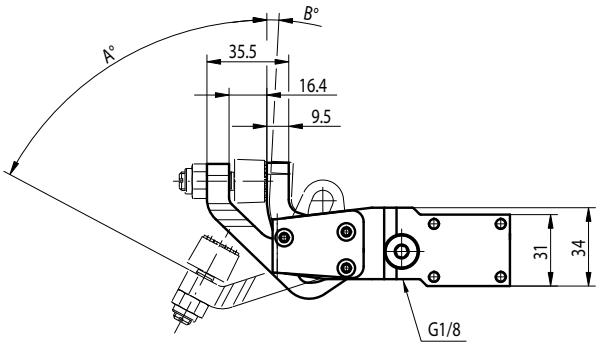
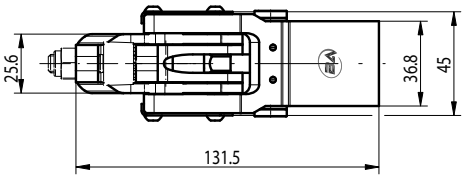


illustration PSB-20-L-02-62-3-SP13-FB





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-L-02-62-3-SP13-FB	62	3	SP13	FB	-	0.476
PSB-20-L-02-62-3-SP15-FB			SP15			0.473

Option upper jaw (clamping pin)	Part no.
SP13	SP13-M8-38
SP15	SP15-M8-40

Option upper jaw: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-L-02(52)

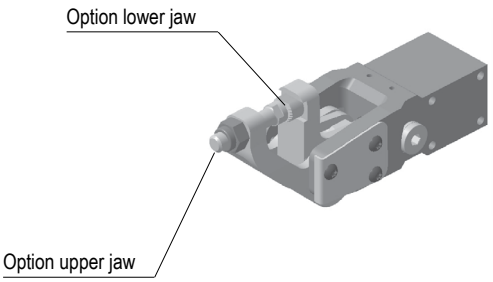
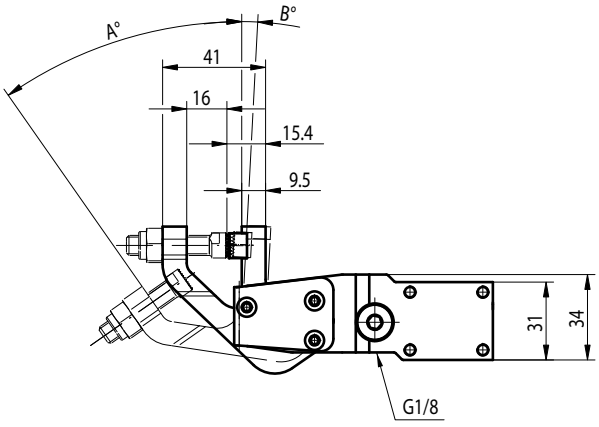
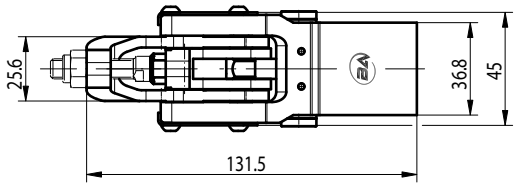


illustration PSB-20-L-02-35-3-SP03-B





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-L-02-35-3-SP03-B	35	3	SP03	B	-	0.490
PSB-20-L-02-35-3-SP13-B			SP13			
PSB-20-L-02-35-35-SP03-B		35	SP03			
PSB-20-L-02-35-35-SP13-B			SP13			

without self-locking

PSB-20-L-52-35-3-SP03-B	35	3	SP03	B	-	0.490

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40
SP13	SP13-M8-38

Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option upper jaw: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-01-80-80

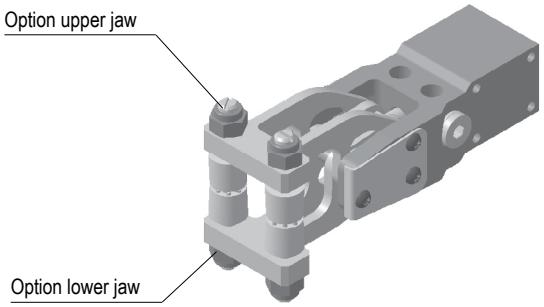
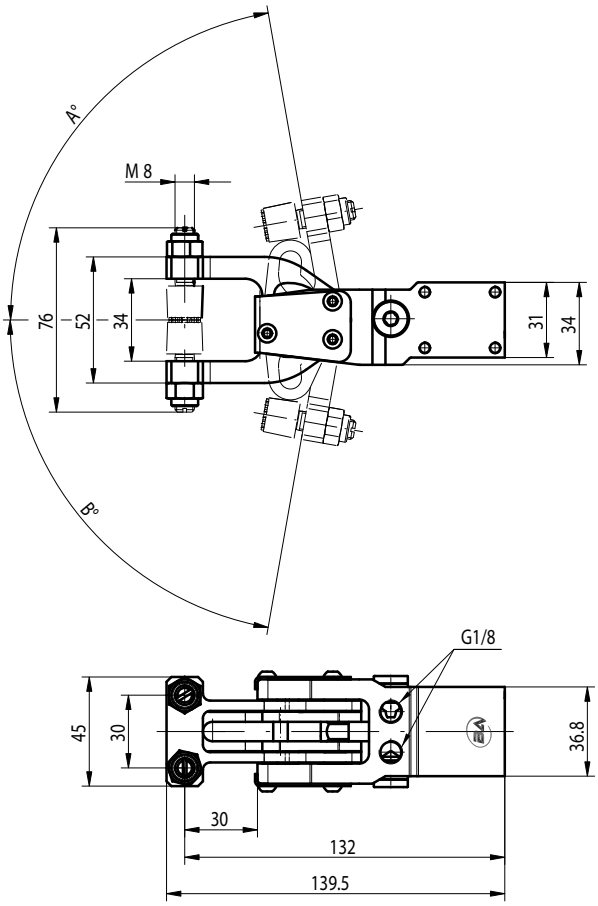


illustration PSB-20-I-01-80-80-SP07-SP07



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-01-80-80-SP07-SP07	80	80	SP07	SP07	-	0,583
PSB-20-I-01-80-80-SP15-SP15			SP15	SP15		

Option upper jaw (clamping pin)	Part no.
SP07	SP07-M8-38
SP15	SP15-M8-40

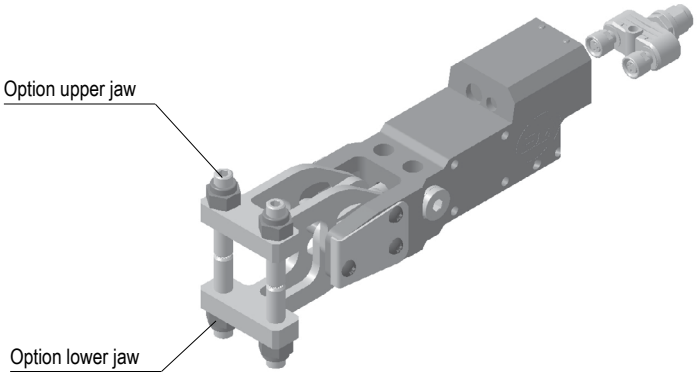
Option lower jaw (clamping pin)	Part no.
SP07	SP07-M8-38
SP15	SP15-M8-40

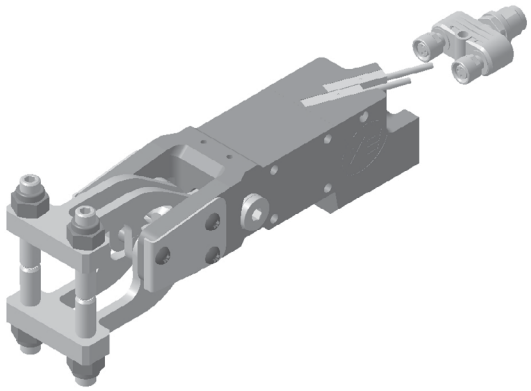
Option upper jaw / Option lower jaw: Dimensions see separate data sheet

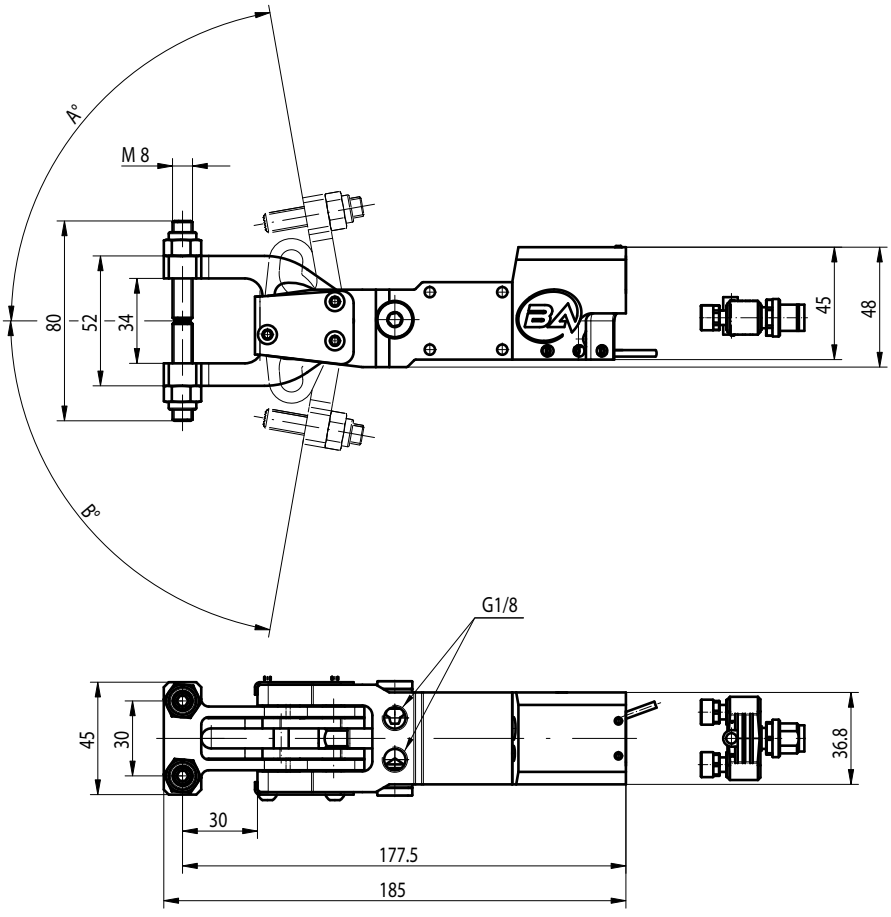
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Pneumatic clamp, PSB-20-I-01-80-80-SP15-SP15-S3







self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-01-80-80-SP15-SP15-S3	80	80	SP15	SP15	S3	0,728

Option Oberbacke (Spannstift)	Part no.
SP15	SP15-M8-40

Option Unterbacke (Spannstift)	Part no.
SP15	SP15-M8-40

Option Sensor	Part no.
S3	DCCQ 05 M 1.5 PSK-K-TSL

Option upper jaw / Option lower jaw: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-A30-01(51)-62

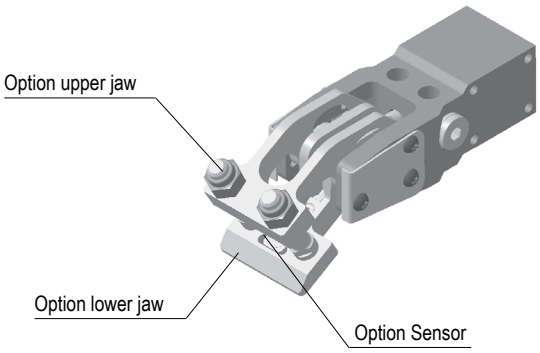
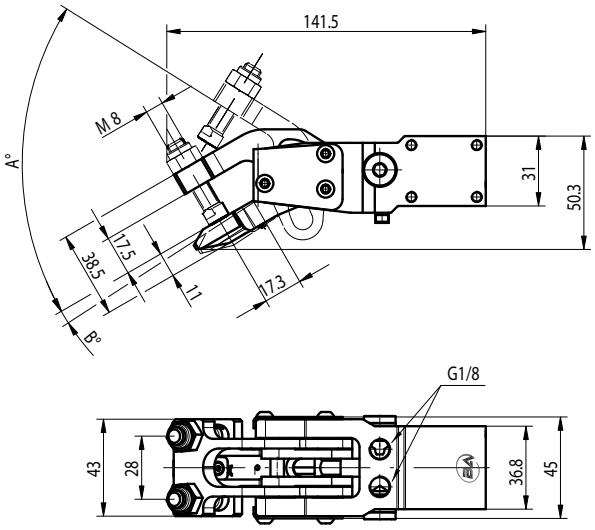


illustration PSB-20-A30-01-62-3-SP03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-A30-01-62-3-SP03-FB	62	3	SP03	FB	-	0.556
PSB-20-A30-01-62-3-SP03-FB-S					S	

without self-locking

PSB-20-A30-51-62-3-SP03-FB	62	3	SP03	FB	-	0.556
PSB-20-A30-51-62-3-SP03-FB-S					S	

Option upper jaw (Clamping pin)	Part no.
SP03	SP03-M8-40

Option Sensor	Part no.
S	PSB-S-2500

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp and connections

Pneumatic clamp, PSB-20-A30-02

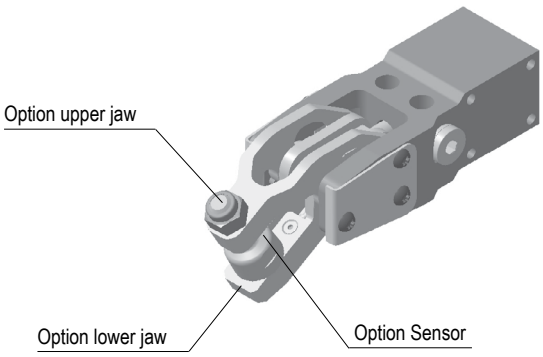
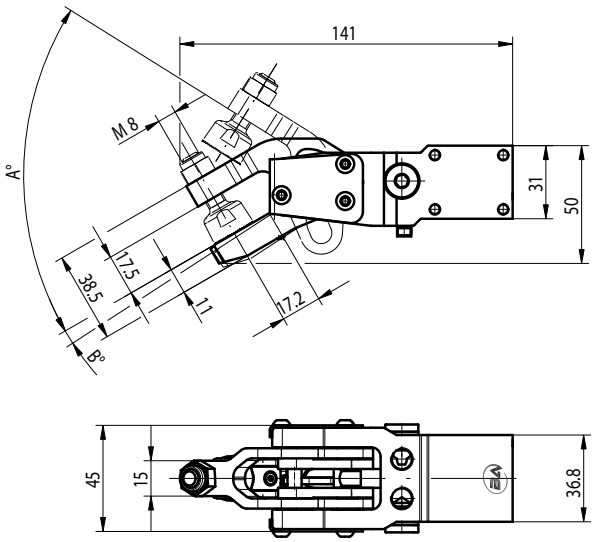


illustration PSB-20-A30-02-62-3-SP14-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	▮ (kg)
PSB-20-A30-02-62-3-SP07-FB	62	3	SP07	FB	-	0.474
PSB-20-A30-02-62-3-SP07-FB-S					S	
PSB-20-A30-02-62-3-SP14-FB			SP14	FB	-	0.481
PSB-20-A30-02-62-3-SP14-FB-S					S	

Option upper jaw (Clamping pin)	Part no.
SP07	SP07-M8-38
SP14	SP14-M8-38

Option Sensor	Part no.
S	PSB-S-2500

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-A60-01(51)

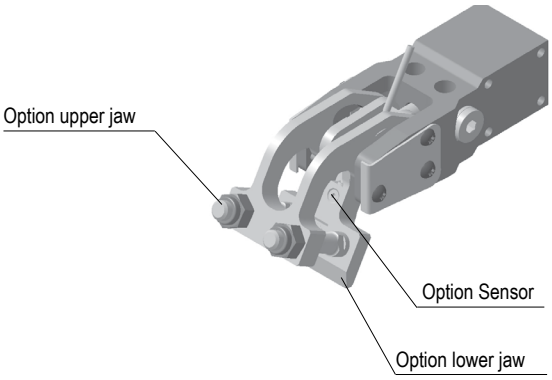
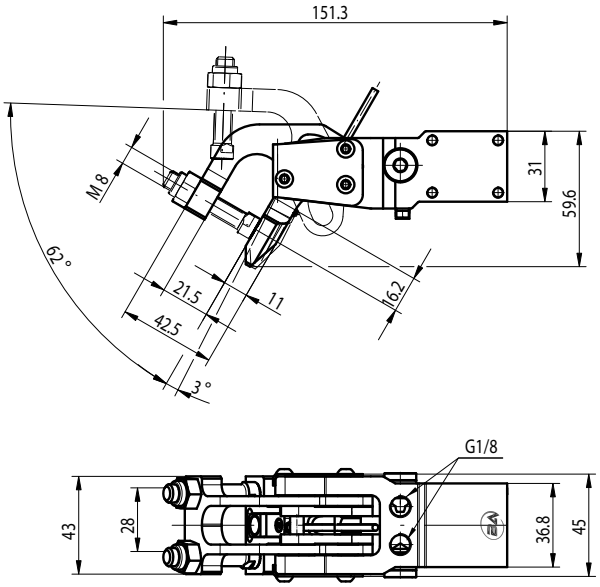


illustration PSB-20-A60-01-62-3-SP03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	▟ (kg)
PSB-20-A60-01-62-3-SP03-FB	62	3	SP03	FB	-	0.563
PSB-20-A60-01-62-3-SP03-FB-S					S	
PSB-20-A60-01-62-3-SP07-FB			SP07		-	0.564
PSB-20-A60-01-62-3-SP07-FB-S					S	
PSB-20-A60-01-62-3-SP14-FB			SP14		-	0.579
PSB-20-A60-01-62-3-SP14-FB-S					S	
PSB-20-A60-01-62-3-SP15-FB			SP15		-	0.560
PSB-20-A60-01-62-3-SP15-FB-S					S	

without self-locking

PSB-20-A60-51-62-3-SP03-FB	62	3	SP03	FB	-	0.563
PSB-20-A60-51-62-3-SP03-FB-S					S	

Option upper jaw (Clamping pin)	Part no.
SP03	SP03-M8-45
SP07	SP07-M8-43
SP14	SP14-M8-45
SP15	SP15-M8-45

Option Sensor	Part no.
S	PSB-S-2500

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-A60-02(52)

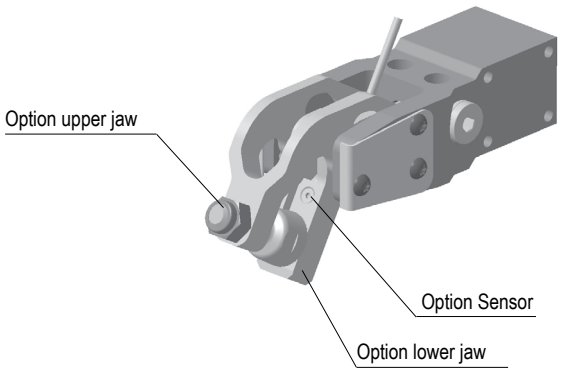
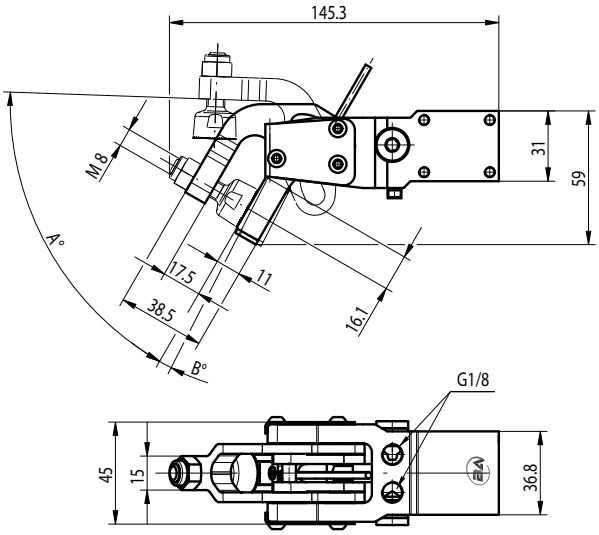


illustration PSB-20-A60-02-62-3-SP14-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	▮ (kg)
PSB-20-A60-02-62-3-SP07-FB	62	3	SP07	FB	-	0.477
PSB-20-A60-02-62-3-SP07-FB-S					S	
PSB-20-A60-02-62-3-SP13-FB			SP13		-	0.478
PSB-20-A60-02-62-3-SP13-FB-S					S	
PSB-20-A60-02-62-3-SP14-FB			SP14		-	0.484
PSB-20-A60-02-62-3-SP14-FB-S					S	

without self-locking

PSB-20-A60-52-62-3-SP14-FB	62	3	SP14	FB	-	0.484
PSB-20-A60-52-62-3-SP14-FB-S					S	

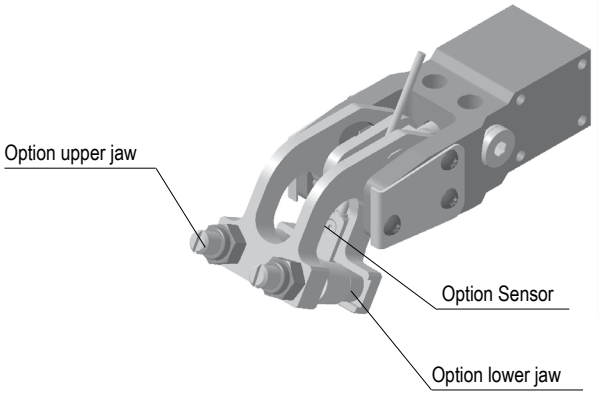
Option upper jaw (Clamping pin)	Part no.
SP07	SP07-M8-43
SP13	SP13-M8-43
SP14	SP14-M8-38

Option Sensor	Part no.
S	PSB-S-2500

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-A60-01



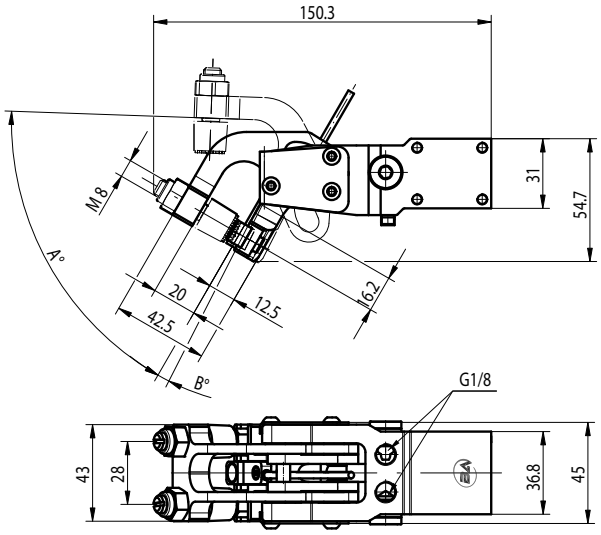


illustration PSB-20-A60-01-62-3-SP07-B-S

self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-A60-01-62-3-SP07-B	62	3	SP07	B	-	0.567
PSB-20-A60-01-62-3-SP07-B-S					S	

Option upper jaw (Clamping pin)	Part no.
SP07	SP07-M8-38

Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option Sensor	Part no.
S	PSB-S-2500

Option upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-I-01

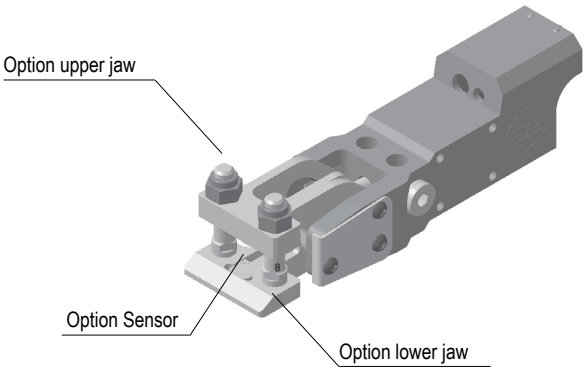
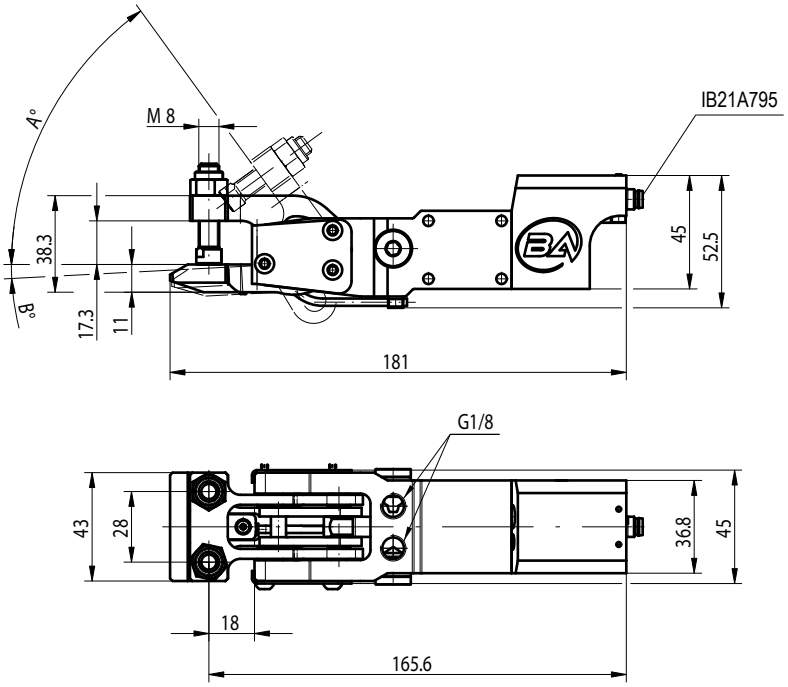


illustration PSBD-20-I-01-54-3-03-FB-S



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-I-01-35-35-03-FB	35	35	SP03	FB	-	0.664
PSBD-20-I-01-35-35-03-FB-S					S	
PSBD-20-I-01-54-3-03-FB	54	3			-	
PSBD-20-I-01-54-3-03-FB-S					S	
PSBD-20-I-01-87-3-03-FB	87				-	
PSBD-20-I-01-87-3-03-FB-S					S	

without self-locking

PSBD-20-I-51-87-3-03-FB	87	3	SP03	FB	-	0.664

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40

Option Sensor	Part no.
S	PSB-S-2500

Option of upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-I-51

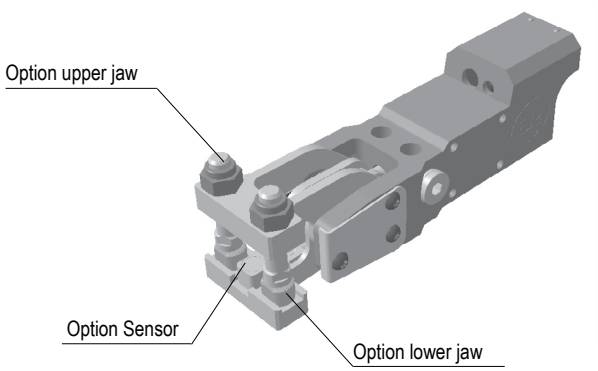
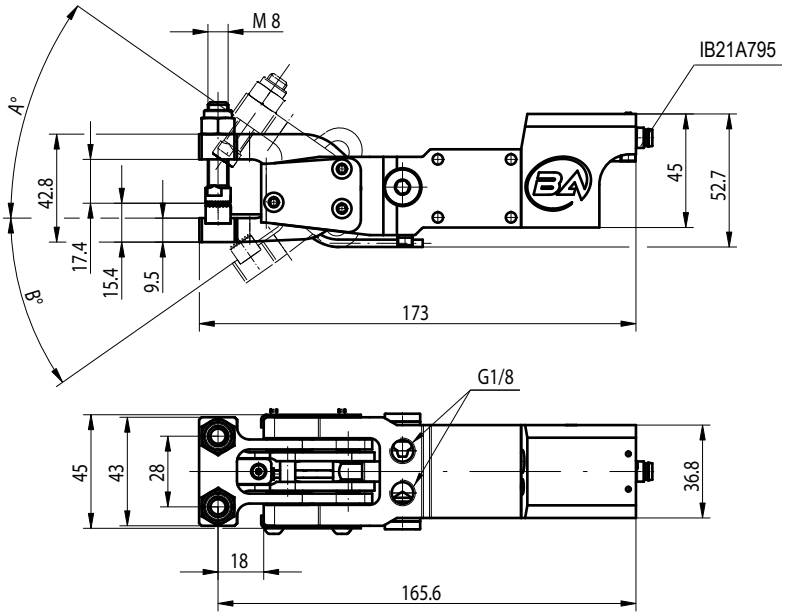


illustration PSBD-20-I-51-35-35-03-FB-S



without self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-I-51-35-35-03-B	35	35	SP03	B	-	0.675
PSBD-20-I-51-35-35-03-B-S					S	

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40

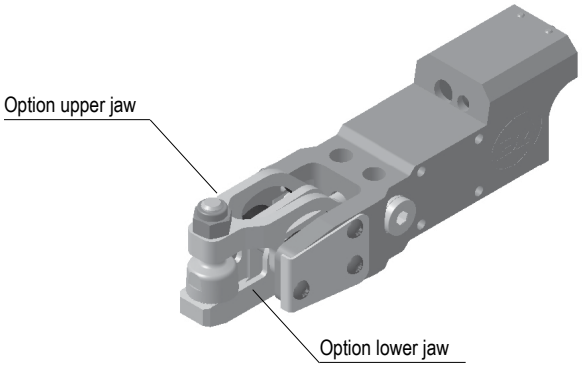
Option lower jaw	Part no.
B	PS-30-I-GD-P003

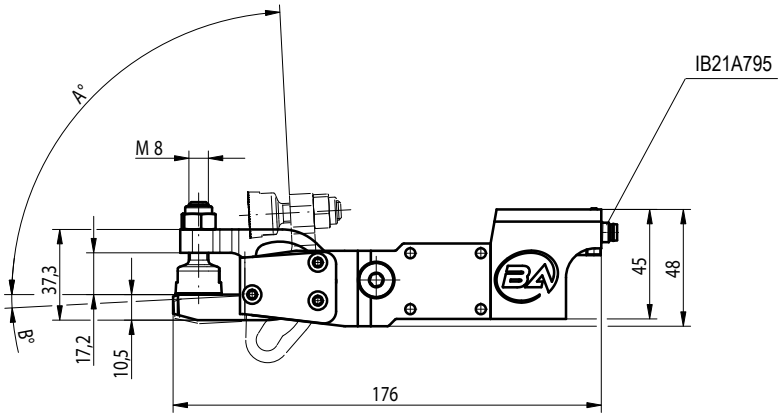
Option Sensor	Part no.
S	PSB-S-2500

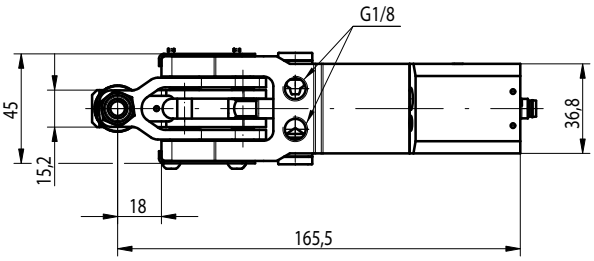
Option of upper jaw / Option Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-I-59-87-3-14-FB







without self-locking

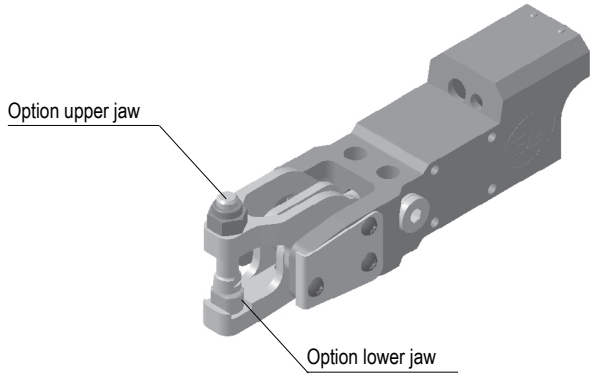
Part no.	Aperture angle upper jaw	Aperture angle lower jaw	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-I-52-87-3-14-FB	87°	3°	SP14	FB	-	0.568

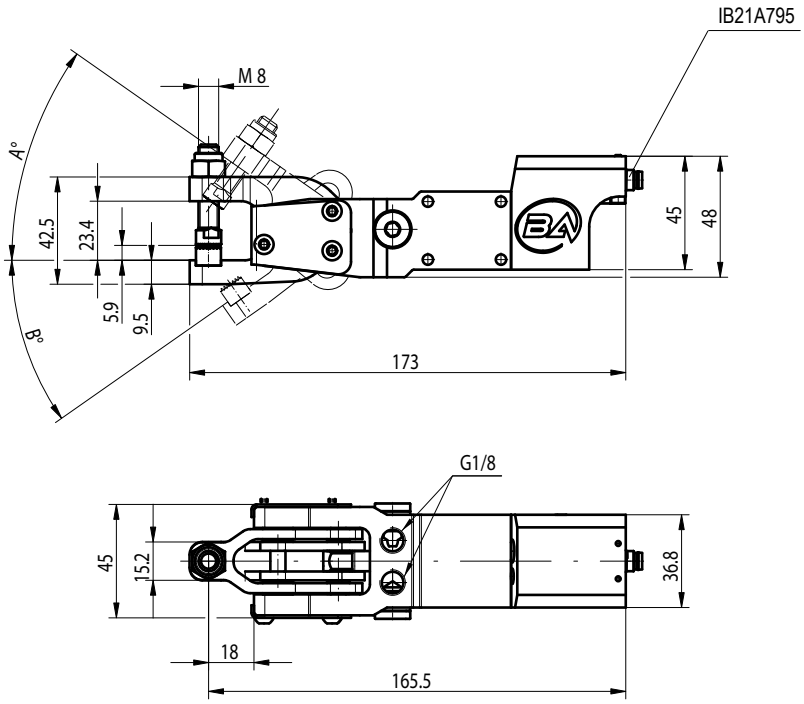
Option upper jaw (clamping pin)	Part no.
SP14	SP14-M8-38

Option of upper jaw Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-I-52-35-35-03-B





without self-locking

Part no.	Aperture angle upper jaw	Aperture angle lower jaw	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-I-52-35-35-03-B	59	3	SP03	B	-	0.593

Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40

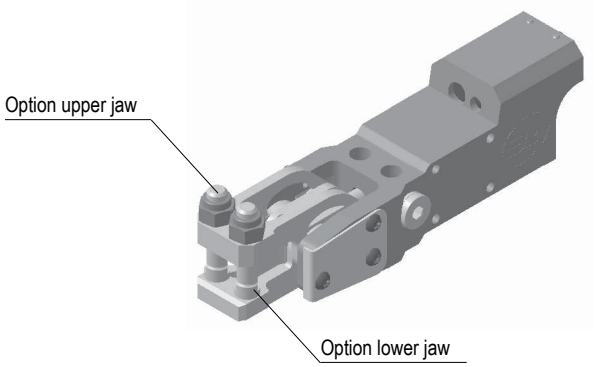
Option lower jaw	Part no.
B	PS-30-I-GD-P003

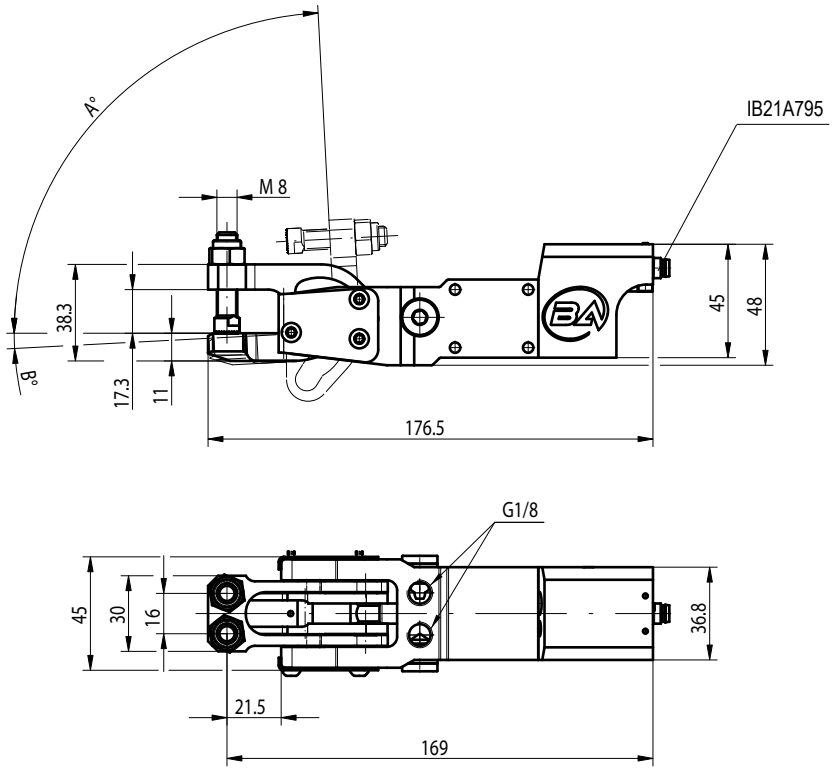
Option of upper jaw / lower jaw: Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-I-59-87-3-03-FB





without self-locking

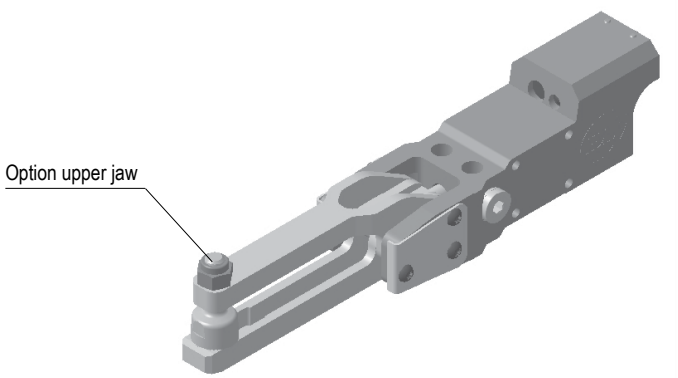
Part no.	Aperture angle upper jaw	Aperture angle lower jaw	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-I-59-87-3-03-FB	87	3	SP03	FB	-	0.623

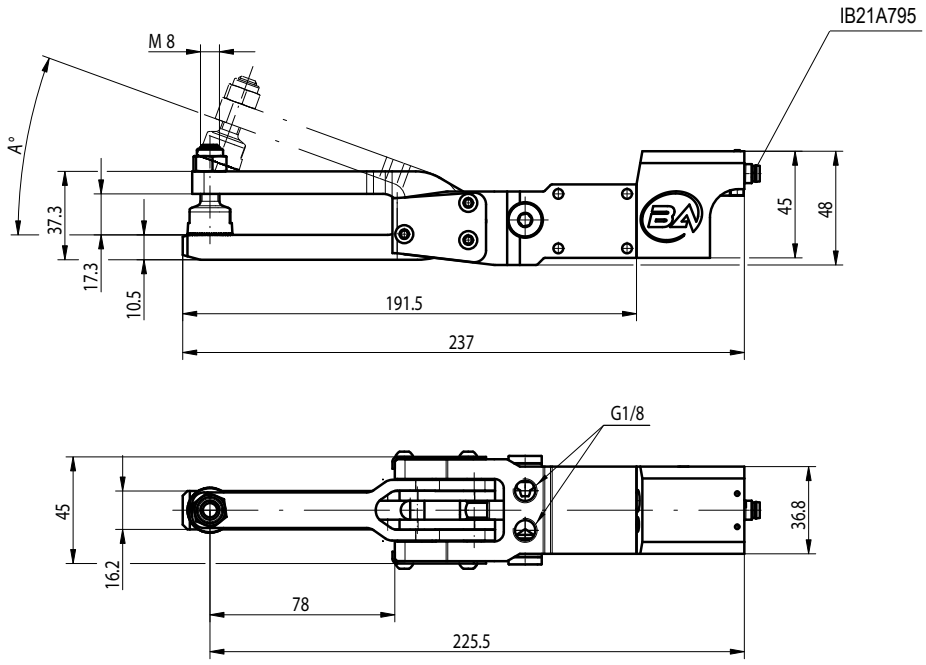
Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40

Option of upper jaw. Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-I-72-20-0-14-FB





without self-locking

Part no.	Aperture angle upper jaw	Aperture angle lower jaw	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-I-72-20-0-14-FB	20	0	SP14	FB	-	0.700

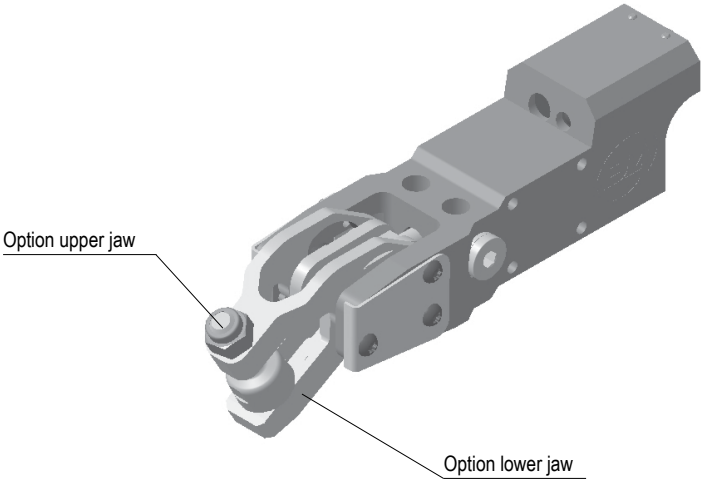
Option upper jaw (clamping pin)	Part no.
SP14	SP14-M8-38

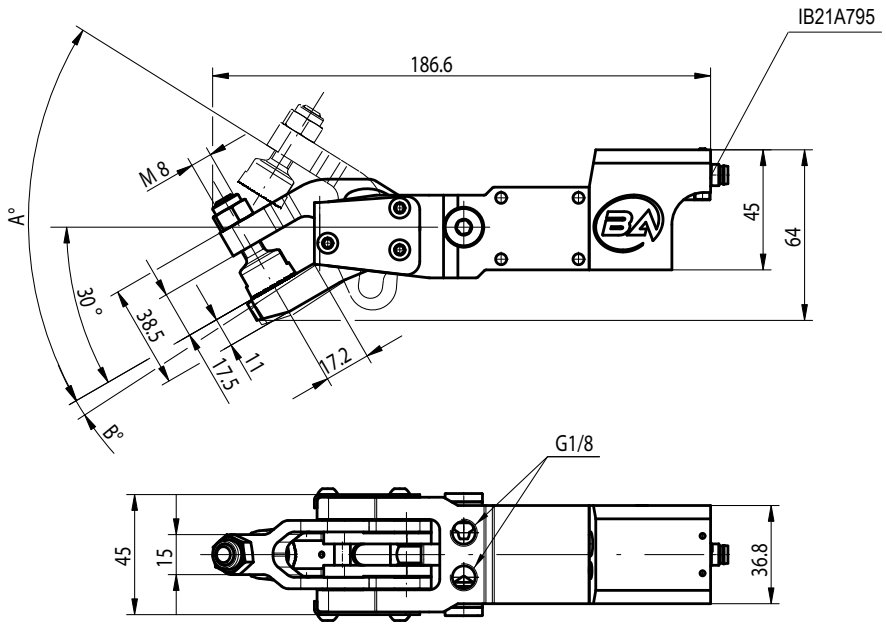
Option of upper jaw. Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-A30-52-62-3-14-FB





without self-locking

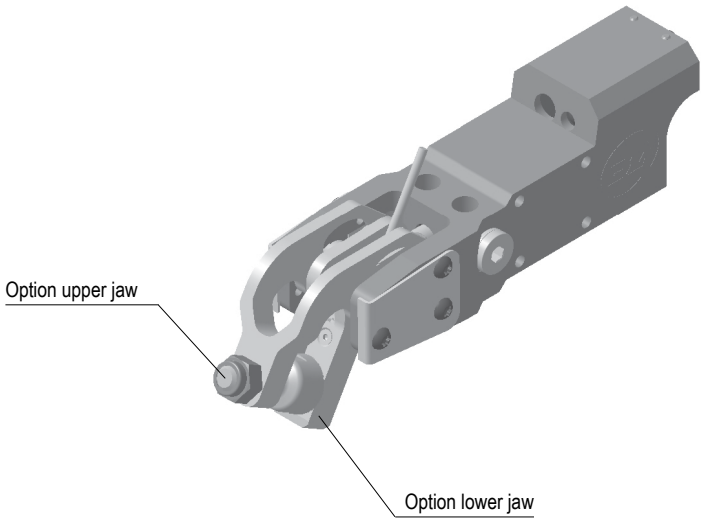
Part no.	Aperture angle upper jaw	Aperture angle lower jaw	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-A30-52-62-3-14-FB	62	3	SP14	FB	-	0.598

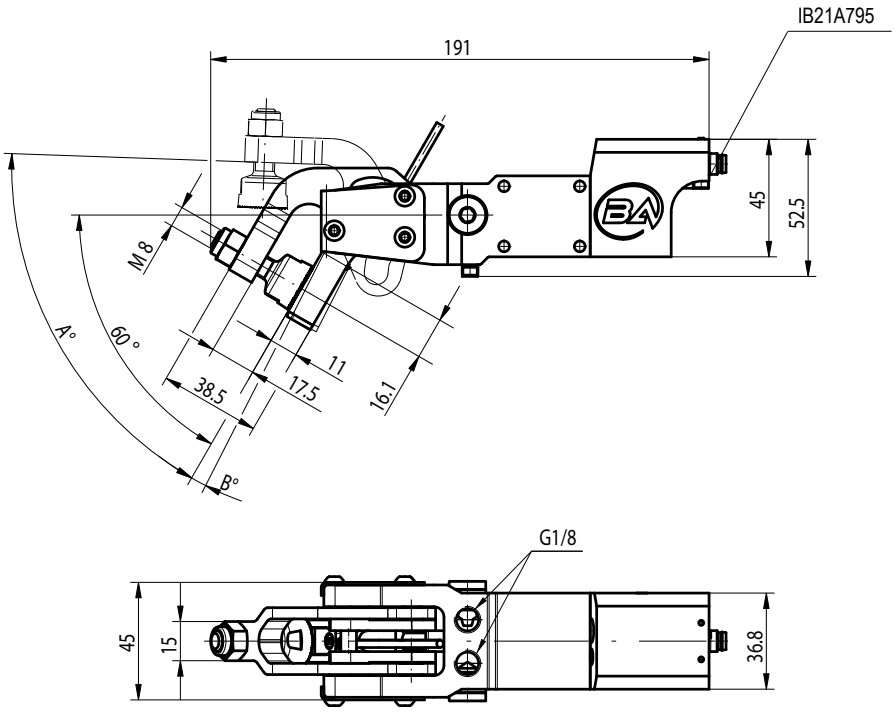
Option upper jaw	Part no.
SP14	SP14-M8-38

Option upper jaw: Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-A60-52-62-3-14-FB(-S)





without self-locking

Part no.	Aperture angle upper jaw	Aperture angle lower jaw	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-A60-52-62-3-14-FB	62	3	SP14	FB	-	0.567
PSBD-20-A60-52-62-3-14-FB-S					S	

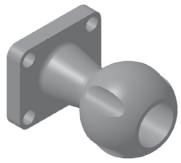
Option upper jaw	Part no.
SP14	SP14-M8-38

Option Sensor	Part no.
S	PSB-S-2500

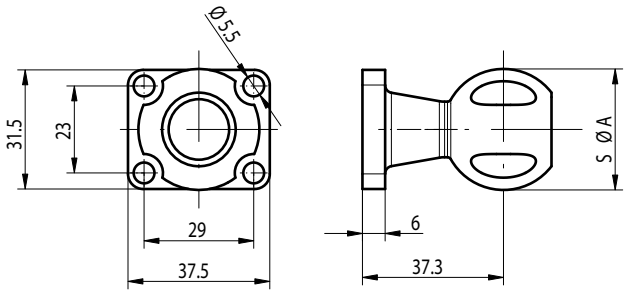
Option upper jaw / Sensor: Dimensions see separate data sheet

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Ball mount

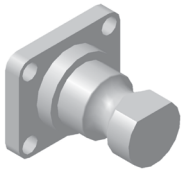


Material: Aluminium

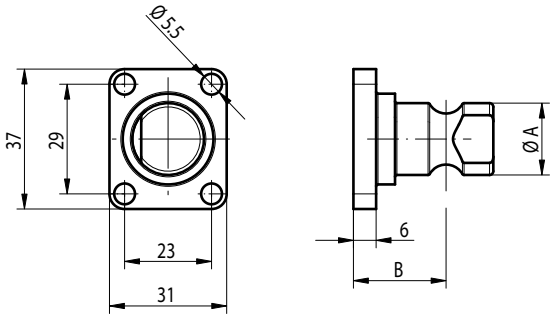


Part no.	S Ø A	(kg)
PSB-20-GB17-K28	28.5	0.058
PSB-20-GB17-K32	32.0	0.065
PSB-20-GB17-K36	36.0	0.067

Bolt mount



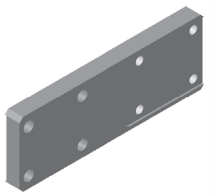
Material: Aluminium

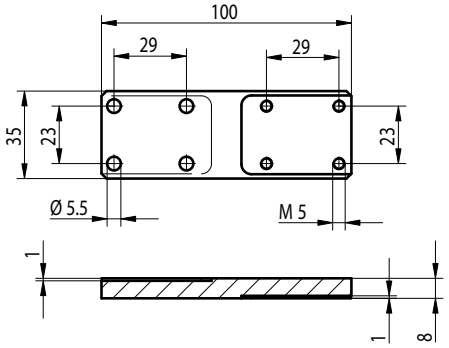


Part no.	Ø A	B	(kg)
PSB-20-GB17-B19	19	24.5	0.08
PSB-20-GB17-B20	20	27.5	0.09

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Mounting plate for Ball / Bolt mount

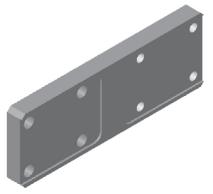


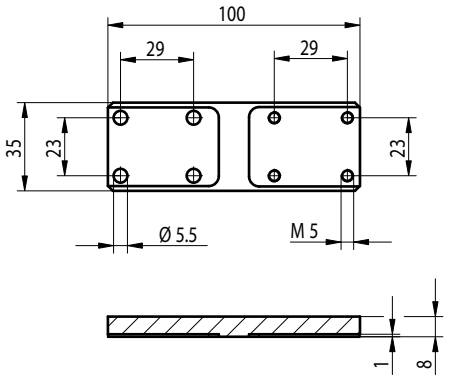


0.065 kg
Material: Aluminium

Part no.
PSB-20-GB23-P003

Mounting plate for Ball / Bolt mount



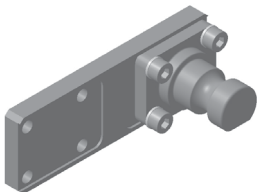


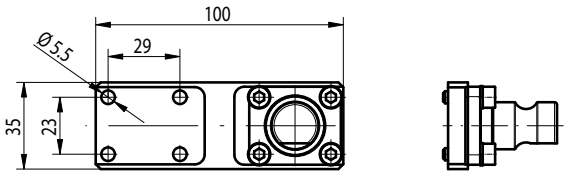
0.065 kg
Material: Aluminium

Part no.
PSB-20-GB23-P004

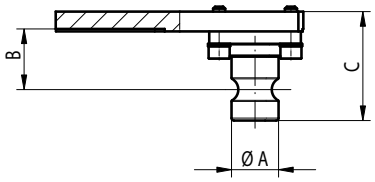
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Mounting plate with bolt, inside



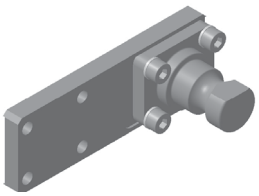


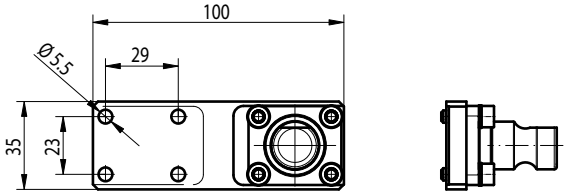
Material: Aluminium



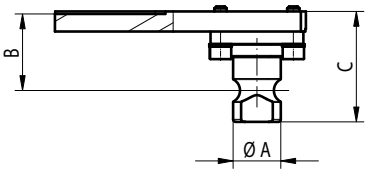
Part no.	Ø A	B	C	(kg)
PSB-20-GB23-B19-IB	19	30.5	44.0	0.127
PSB-20-GB23-B20-IB	20	33.5	49.5	0.132

Mounting plate with bolt, outside





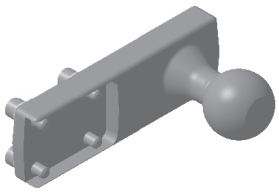
Material: Aluminium

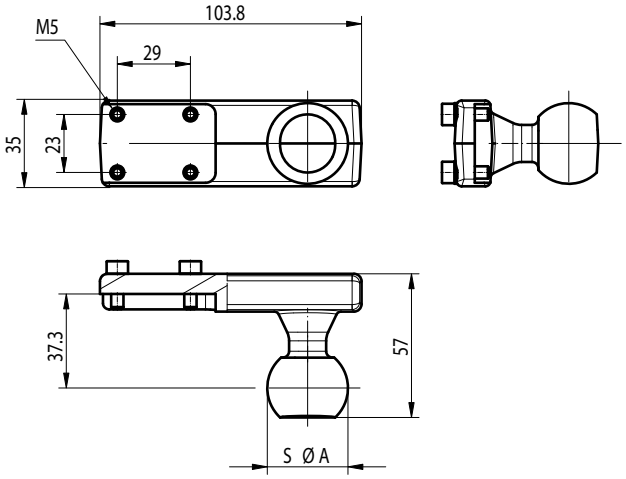


Part no.	Ø A	B	C	(kg)
PSB-20-GB23-B19-OB	19	30.5	44.0	0.127
PSB-20-GB23-B20-OB	20	33.5	49.5	0.132

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Mounting plate with ball, inside



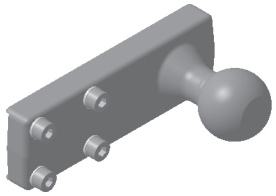


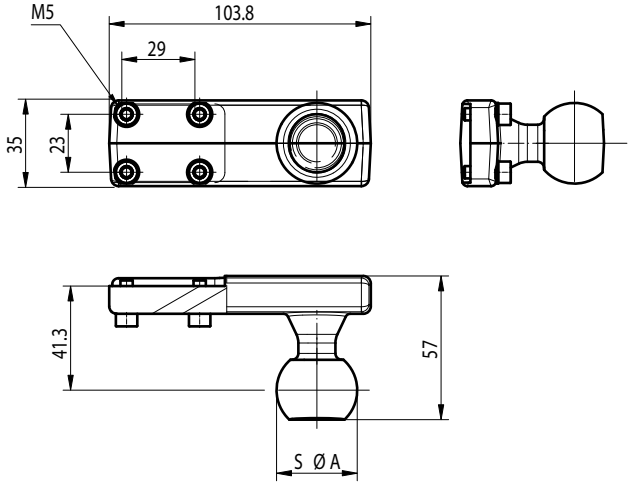
Material: Aluminium

Part no.	SØ A	(kg)
PSB-20-GB23-K28-IB	28.5	0.171
PSB-20-GB23-K32-IB	32.0	0.182
PSB-20-GB23-K36-IB*	36.0	0.154

* PSB-20-GB23-K36-IB is in two parts

Mounting plate with ball, outside





Material: Aluminium

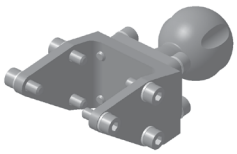
Part no.	SØ A	(kg)
PSB-20-GB23-K28-OB	28.5	0.182
PSB-20-GB23-K32-OB	32.0	0.193
PSB-20-GB23-K36-OB *	36.0	0.154

* PSB-20-GB23-K36-OB is in two parts

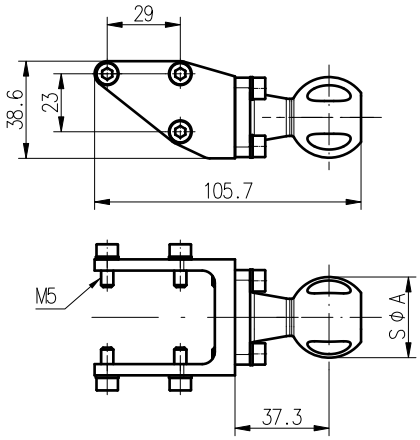
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Pneumatic clamp and connections

Mounting plate with ball



Material: Aluminium

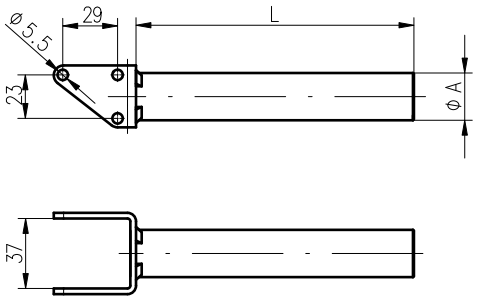


Part no.	S Ø A	▮ (kg)
PSB-20-GB23-3-K28	28.5	0.164
PSB-20-GB23-3-K32	32.0	0.169
PSB-20-GB23-3-K36	36.0	0.178

Gripper connections



Material: Steel

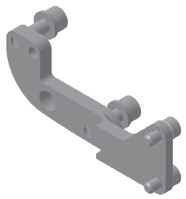


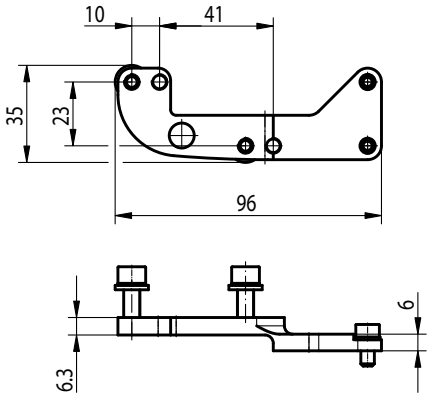
Ordering information		e.g.: STS-25-200-PSB20	
STS-	-A	-L	-PSB20
	Diameter	Length	
	↓	↓	
	20	200	
	25	400	
	30	600	

Other lengths upon request

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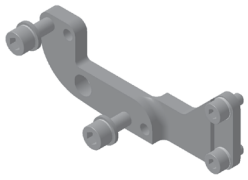
Mount for angle light barrier, right

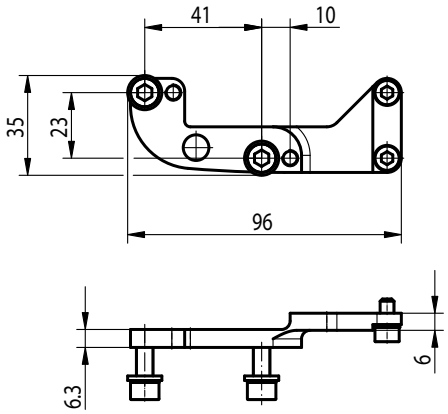




Part no.	Material	(kg)
PSB-20-I-OGL-003-V-R	Aluminium	0,052
PSB-20-I-OGL-S-003-V-R	Steel	0,107

Mount for angle light barrier, left

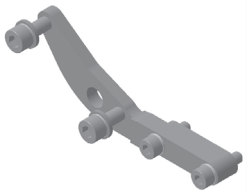




Part no.	Material	(kg)
PSB-20-I-OGL-003-V-L	Aluminium	0.052
PSB-20-I-OGL-S-003-V-L	Steel	0.107

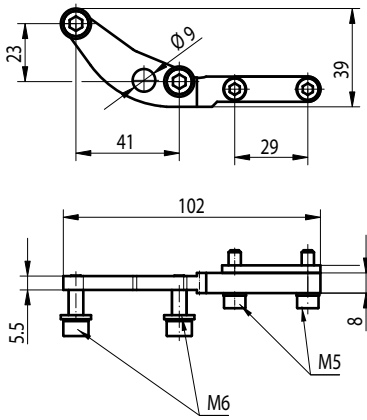
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Mount for angle light barrier, left

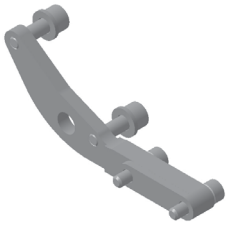


0.05 kg
Material: Aluminium

Part no.
PSB-20-I-OGL-004-V-L

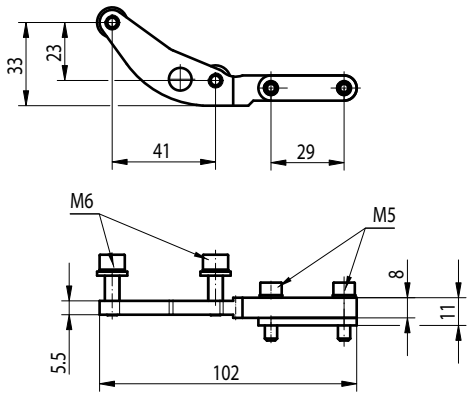


Mount for angle light barrier, right



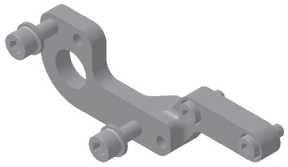
0.05 kg
Material: Aluminium

Part no.
PSB-20-I-OGL-004-V-R



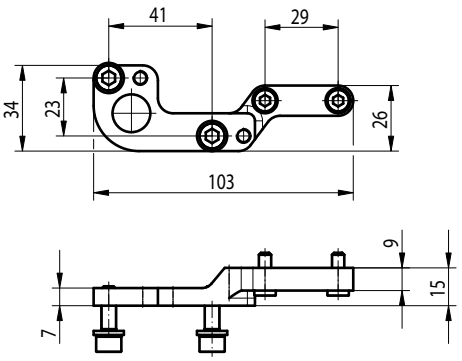
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Mount for angle light barrier, left

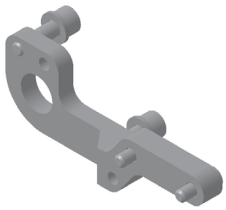


0.061 kg
Material: Aluminium

Part no.
PSB-20-I-OGL-005-V-L

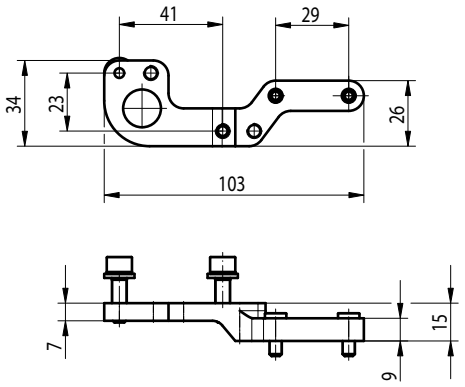


Mount for angle light barrier, right



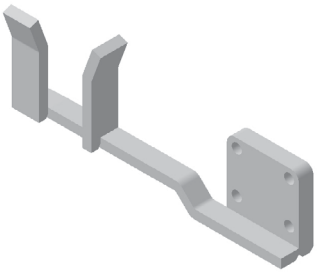
0.061 kg
Material: Aluminium

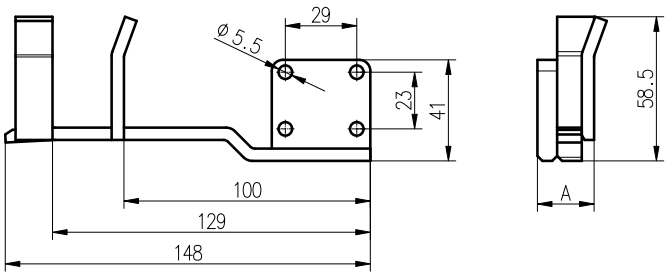
Part no.
PSB-20-I-OGL-005-V-R



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Arrestor rod, left

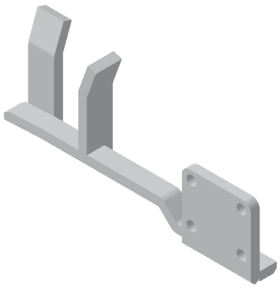


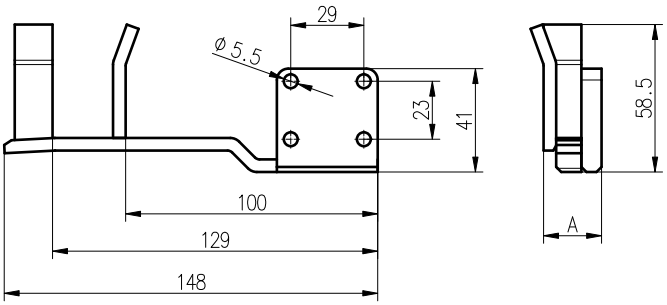


Material: Steel

Part no.	A	(kg)
PSB-20-AKD03-L	20	0.188
PSB-20-AKD04-L	23	0.211

Arrestor rod, right



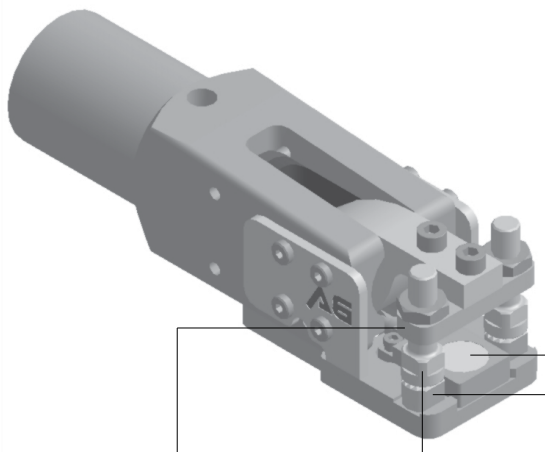


Material: Steel

Part no.	A	(kg)
PSB-20-AKD03-R	20	0.188
PSB-20-AKD04-R	23	0.211

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Ordering example PS-40-I



PS	-	40	-	I	-	40	-	SP03	-	B	-	S
↓		↓		↓		↓		↓		↓		↓
Pneumatik clamp		Housing size	40	Housing style	I	= 2 Finger	Aperture angle	40	Clamping pin up		Block jaw	B		Sensor	S
					I2	= 1 Finger					fixed jaw	FB		Sensor left	SL
					I9	= 2 Finger					Clamping pin down	SP03		Sensor right	SR
					I22	= 1 Finger									

PS-40-I-40

Clamping force at 5 bar : 600 N

Air consumption at 6 bar / double stroke: 0,2 dm³

Multiple connections

Connecting link guide

Self-locking

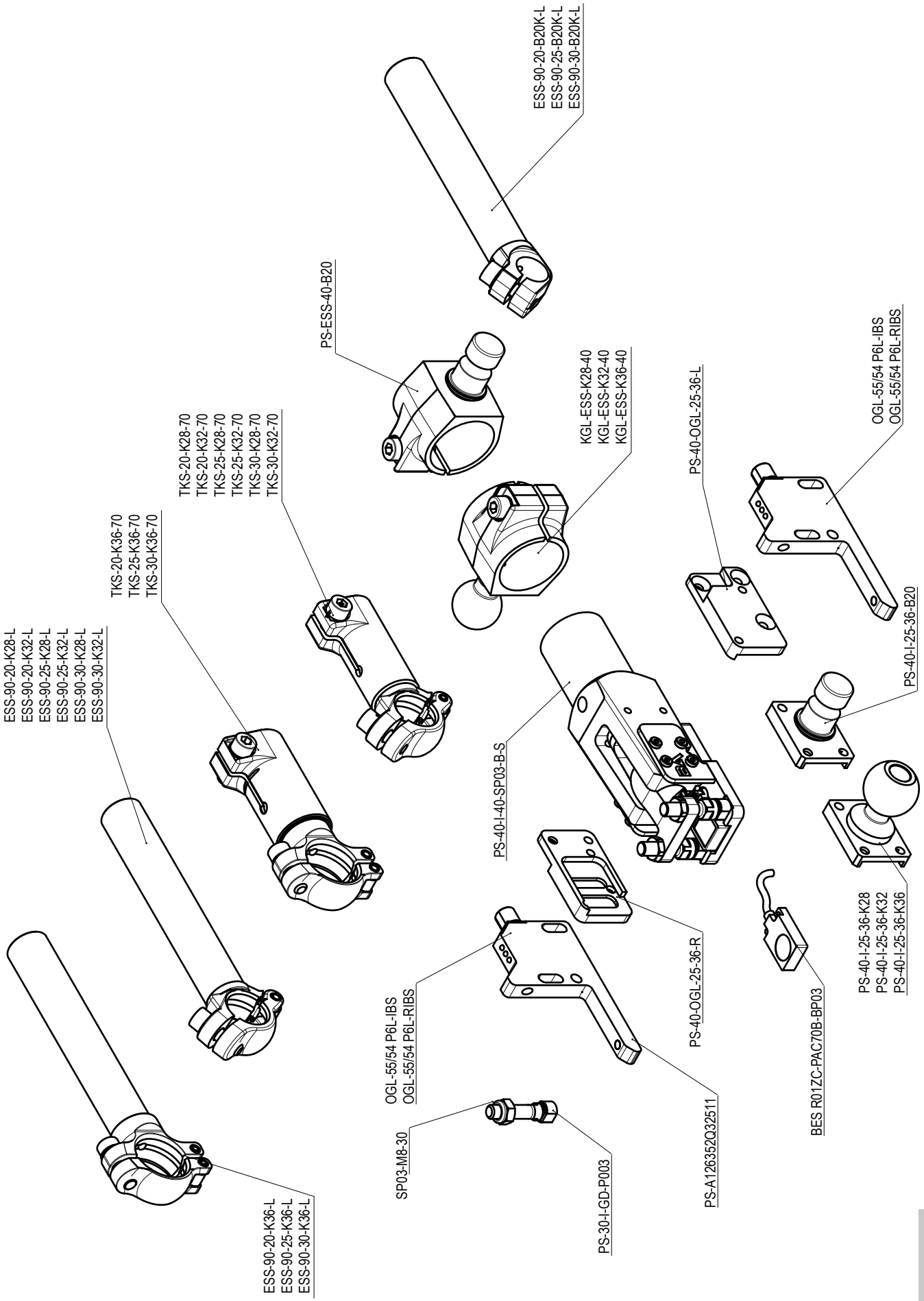
High strength aluminium

Other sizes upon request

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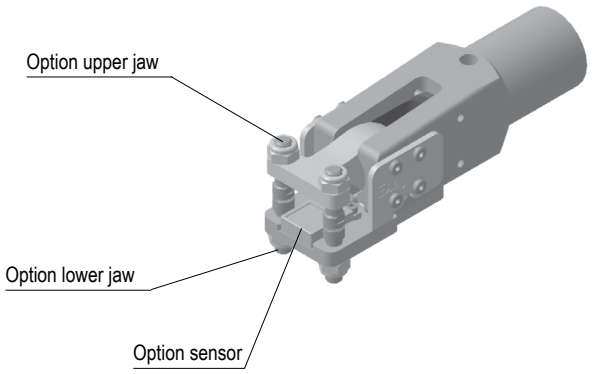
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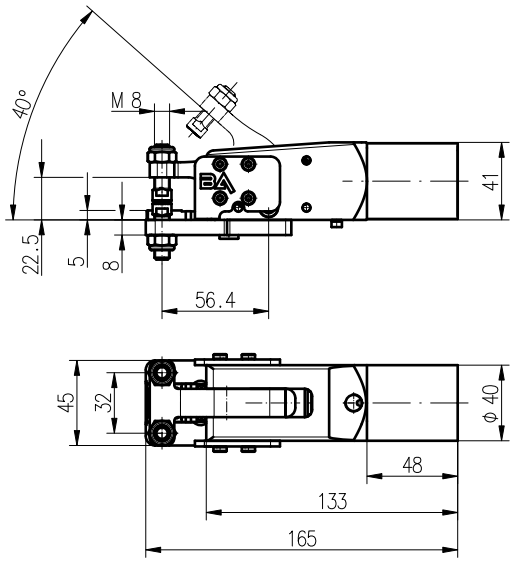
PS-40-I-40-SP03-B(-S) with connections



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Pneumatic clamp, PS-40-I-40-SP03-SP03(-S)





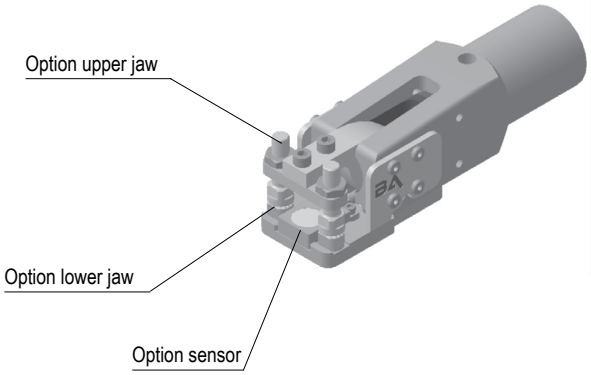
Part no.	Aperture angle°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PS-40-I-40-SP03-SP03	40	SP03	SP03	-	0.576
PS-40-I-40-SP03-SP03-S				S	

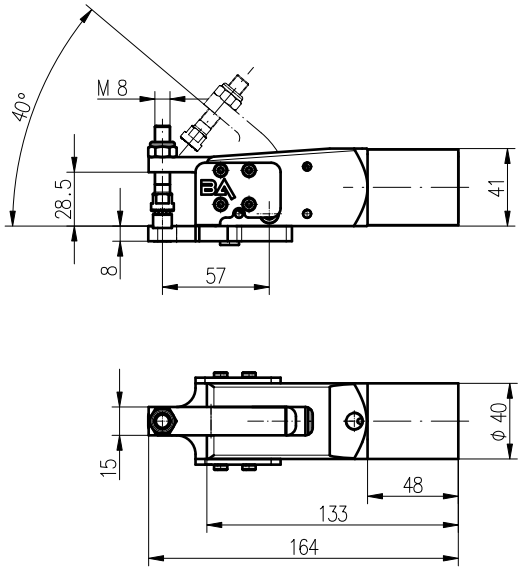
Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-30

Option lower jaw (clamping pin*)	Part no.
SP03	SP03-M8-30

Option Sensor	Part no.
S	BES R01ZC-PAC70B-BP03

Pneumatic clamp, PS-40-I-40-SP03-B(-S)





Part no.	Aperture angle°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PS-40-I-40-SP03-B	40	SP03	B	-	1.66
PS-40-I-40-SP03-B-S				S	

Option upper jaw (clamping pin*)	Part no.
SP03	SP03-M8-35

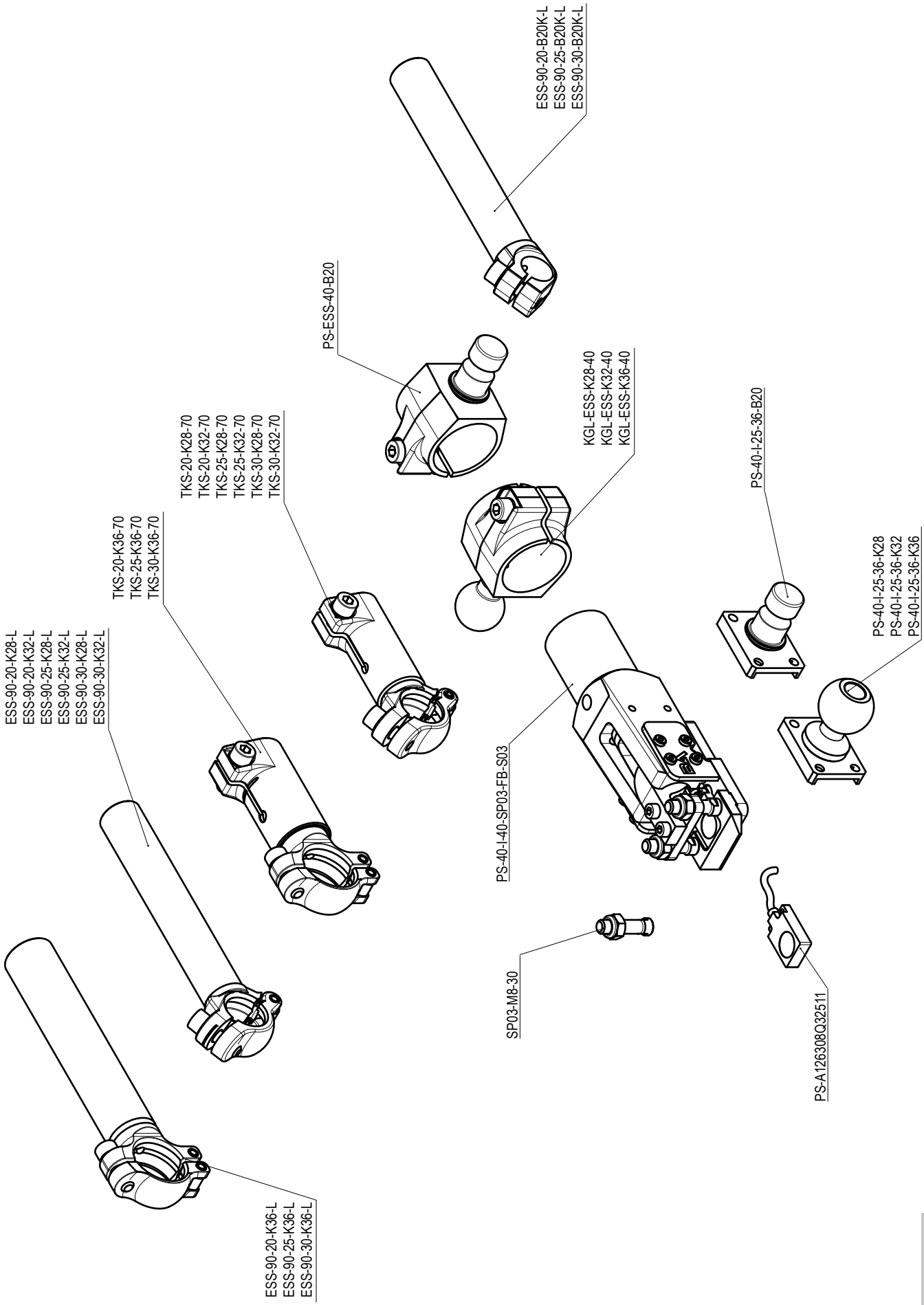
Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option Sensor	Part no.
S	BES R01ZC-PAC70B-BP03

*Execution with other clamping pins on request
Option upper jaw / Option lower jaw / Option Sensor: Dimensions see separate data sheet

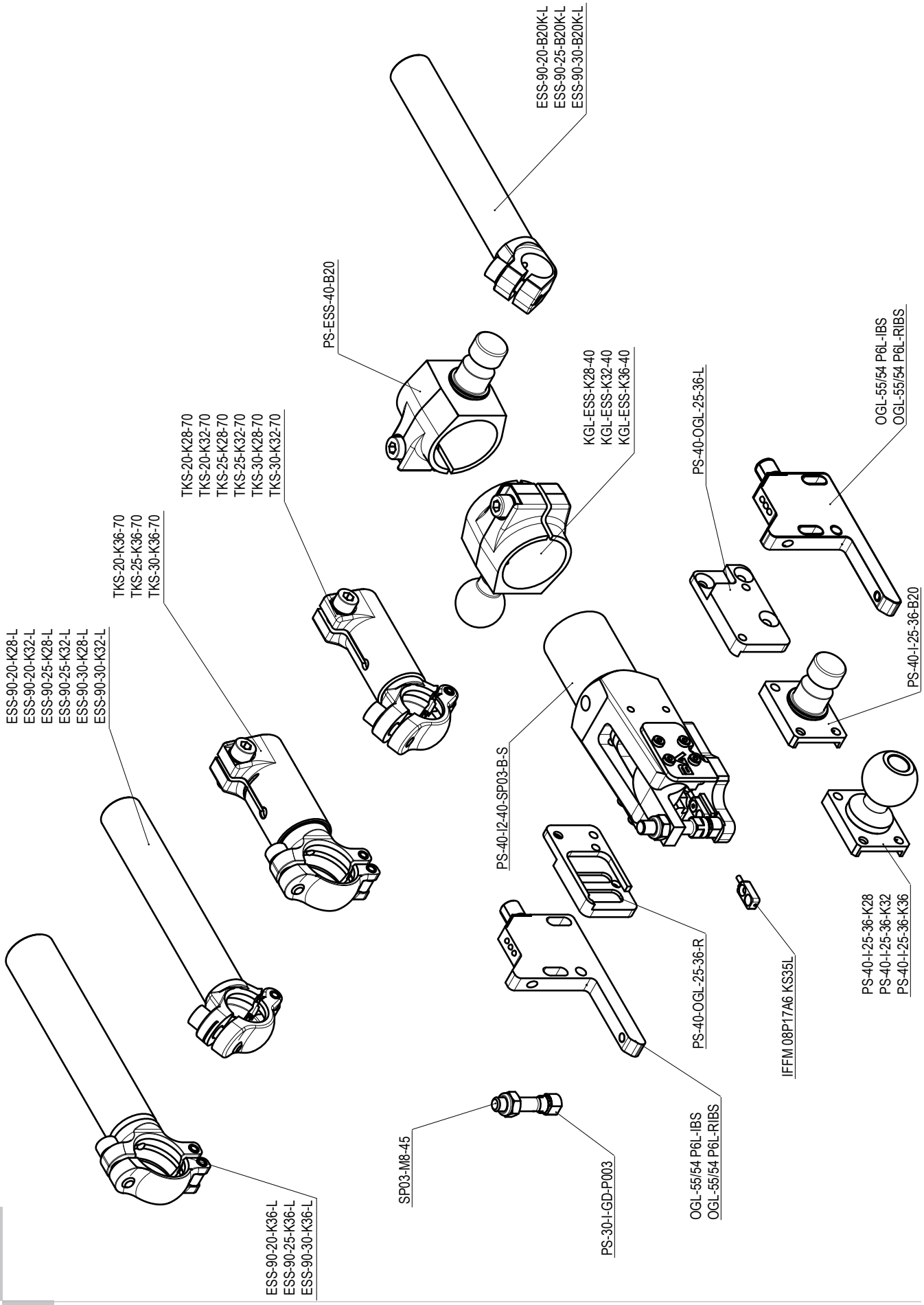
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PS-40-I-40-SP03-FB(-S) with connections



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PS-40-I2-40-SP03-B(-S) with connections

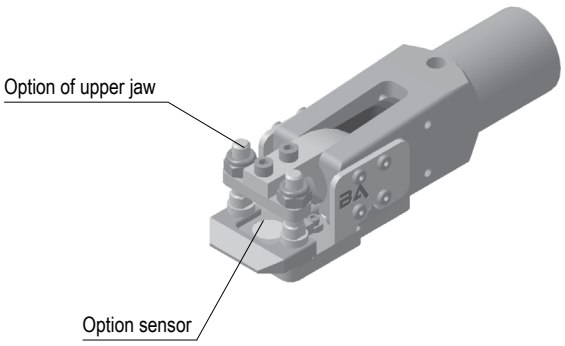


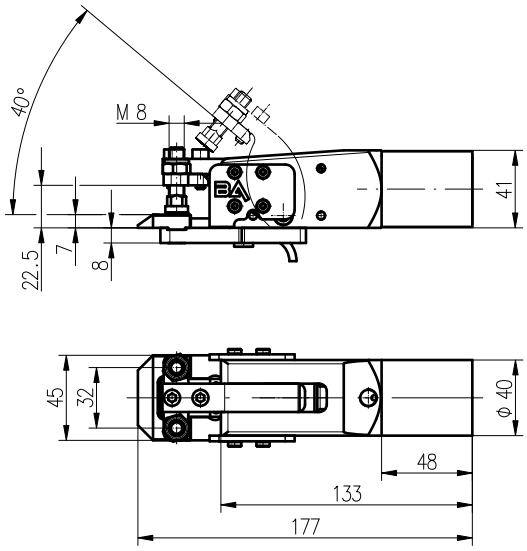
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Pneumatic clamp and connections

Pneumatic clamp, PS-40-I-40-SP03-FB(-S03)



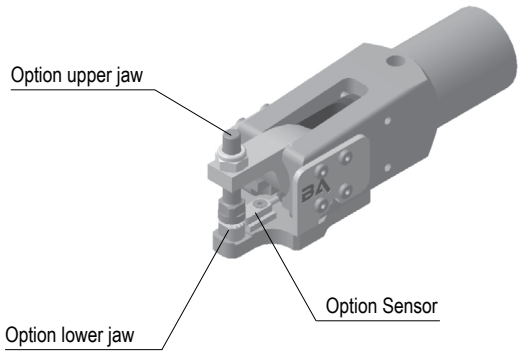


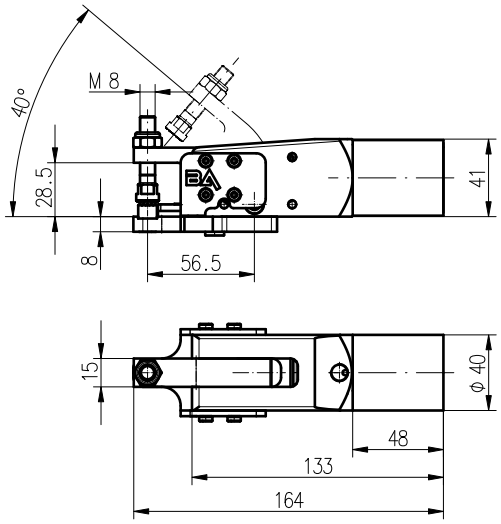
Part no.	Aperture angle°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PS-40-I-40-SP03-FB	40	SP03	FB	-	1.66
PS-40-I-40-SP03-FB-S				S	

Option upper jaw (clamping pin*)	Part no.
SP03	SP03-M8-40

Option Sensor	Part no.
S	PS-A126308Q320511

Pneumatic clamp, PS-40-I2-40-SP03-B(-S)





Part no.	Aperture angle°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PS-40-I2-40-SP03-B	40	SP03	B	-	1.10
PS-40-I2-40-SP03-B-S				S	

Option upper jaw (clamping pin*)	Part no.
SP03	SP03-M8-40

Option lower jaw	Part no.
B	PS-30-I-GD-P003

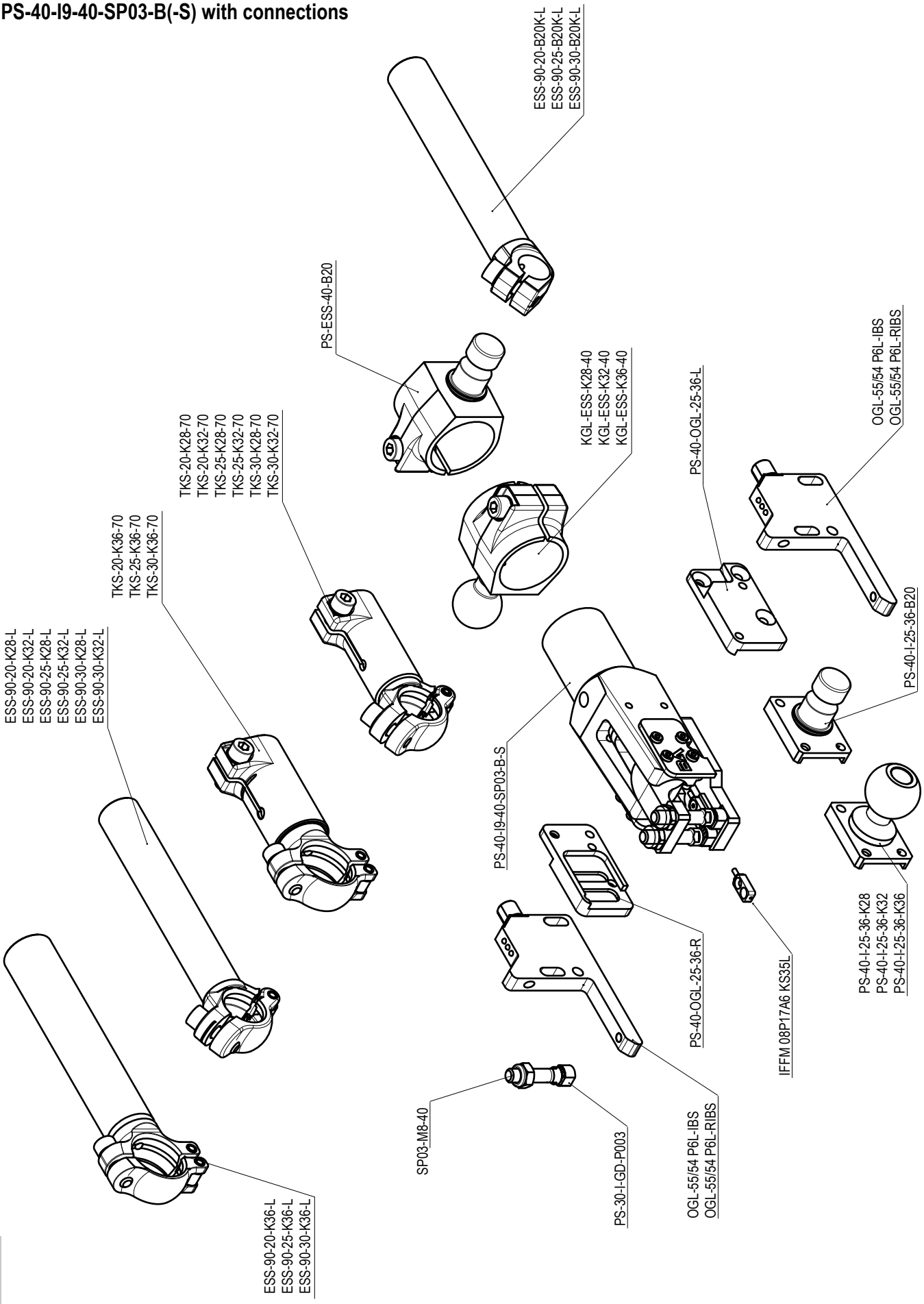
Option Sensor	Part no.
S	IFFM 08P17A6/KS35L

*Execution with other clamping pins on request
Option upper jaw / Option lower jaw / Option Sensor: Dimensions see separate data sheet

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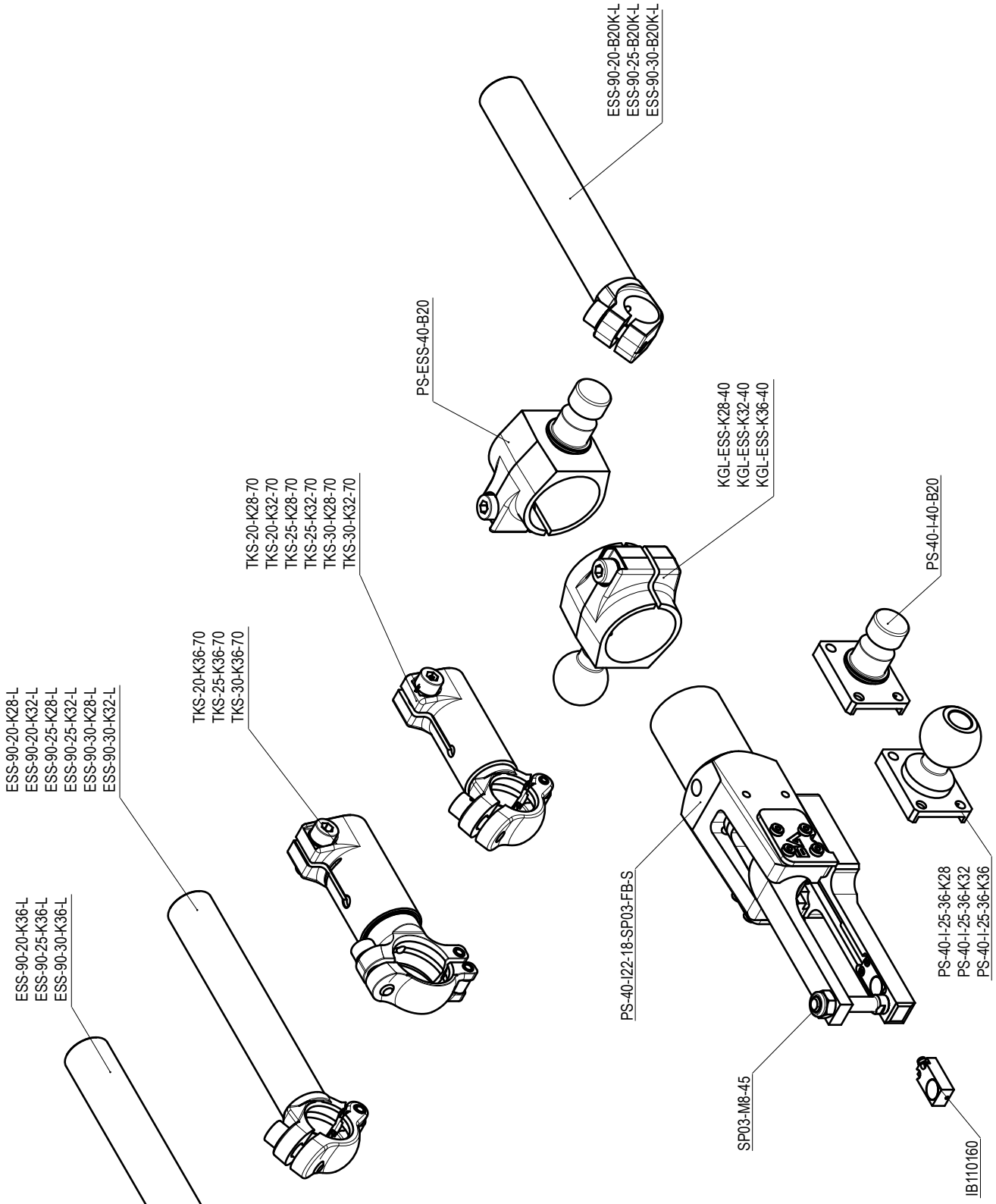
PS-40-I9-40-SP03-B(-S) with connections



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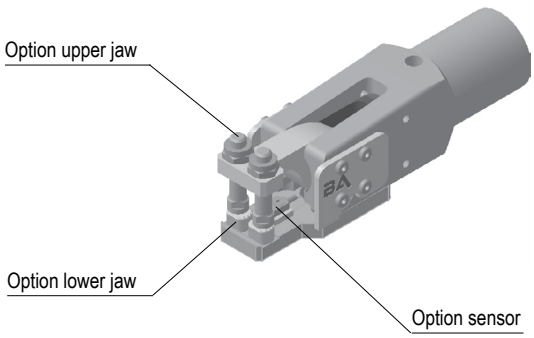
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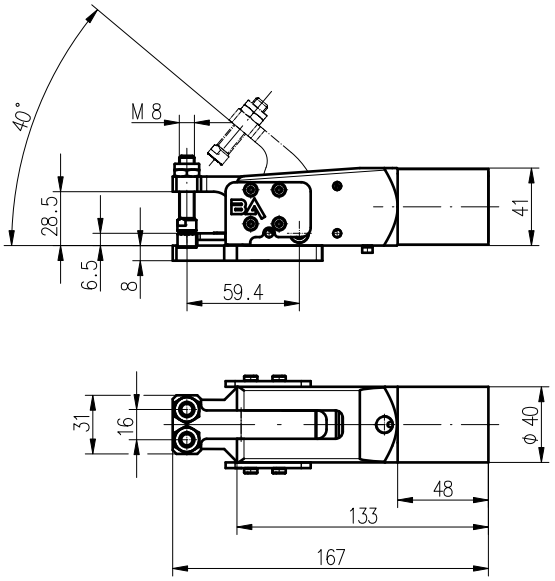
PS-40-I22-18-SP03-FB(-S) with connections



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Pneumatic clamp, PS-40-I9-40-SP03-(-S)





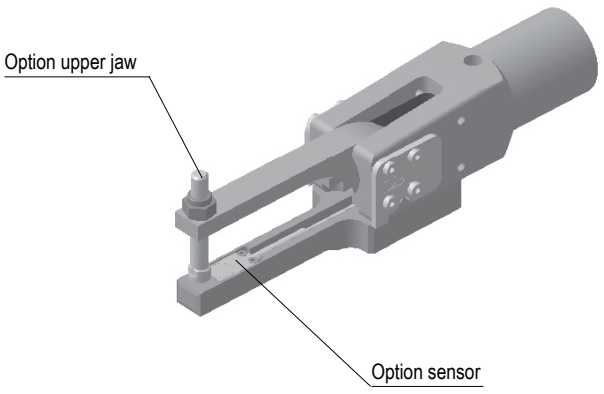
Part no.	Aperture angle°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PS-40-I9-40-SP03-B	40	SP03	B	-	0. 84
PS-40-I9-40-SP03-B-S				S	

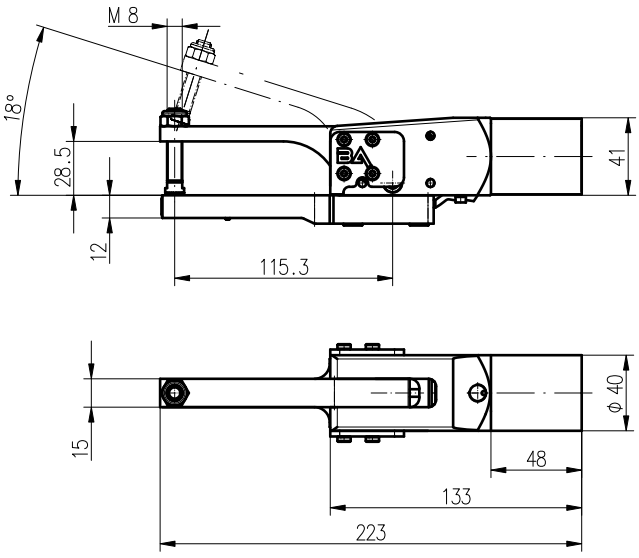
Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-40

Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option Sensor	Part no.
S	IFFM 08P17A6 L

Pneumatic clamp, PS-40-I22-18-SP03-FB(-S)





Part no.	Aperture angle°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PS-40-I22-18-SP03-FB	18	SP03	FB	-	1.183
PS-40-I22-18-SP03-FB-S				S	

Option upper jaw (clamping pin*)	Part no.
SP03	SP03-M8-45

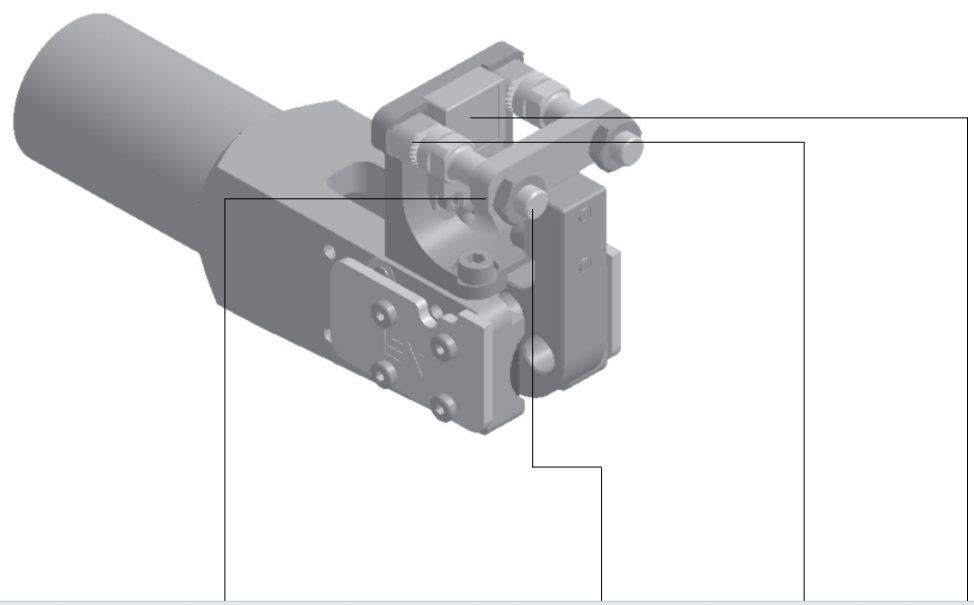
Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option Sensor	Part no.
S	IB110160

*Execution with other clamping pins on request
Option upper jaw / Option lower jaw / Option Sensor: Dimensions see separate data sheet

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Ordering example PS-40-L



PS	-	40	-	L	-	90-2	-	SP03	-	B	-	S
↓												
Pneumatik clamp		↓		↓		↓		↓		↓		↓
		Housing size	40			Aperture angle	90					
				Housing style	L = 2 Finger			Clamping pin up				
										Block jaw	B	

Sensor	S
Sensor left	SL
Sensor right	SR

PS-40-L*

Clamping force at 5 bar : 600 N

Air consumption at 6 bar / double stroke: 0,2 dm³

Multiple connections

Connecting link guide

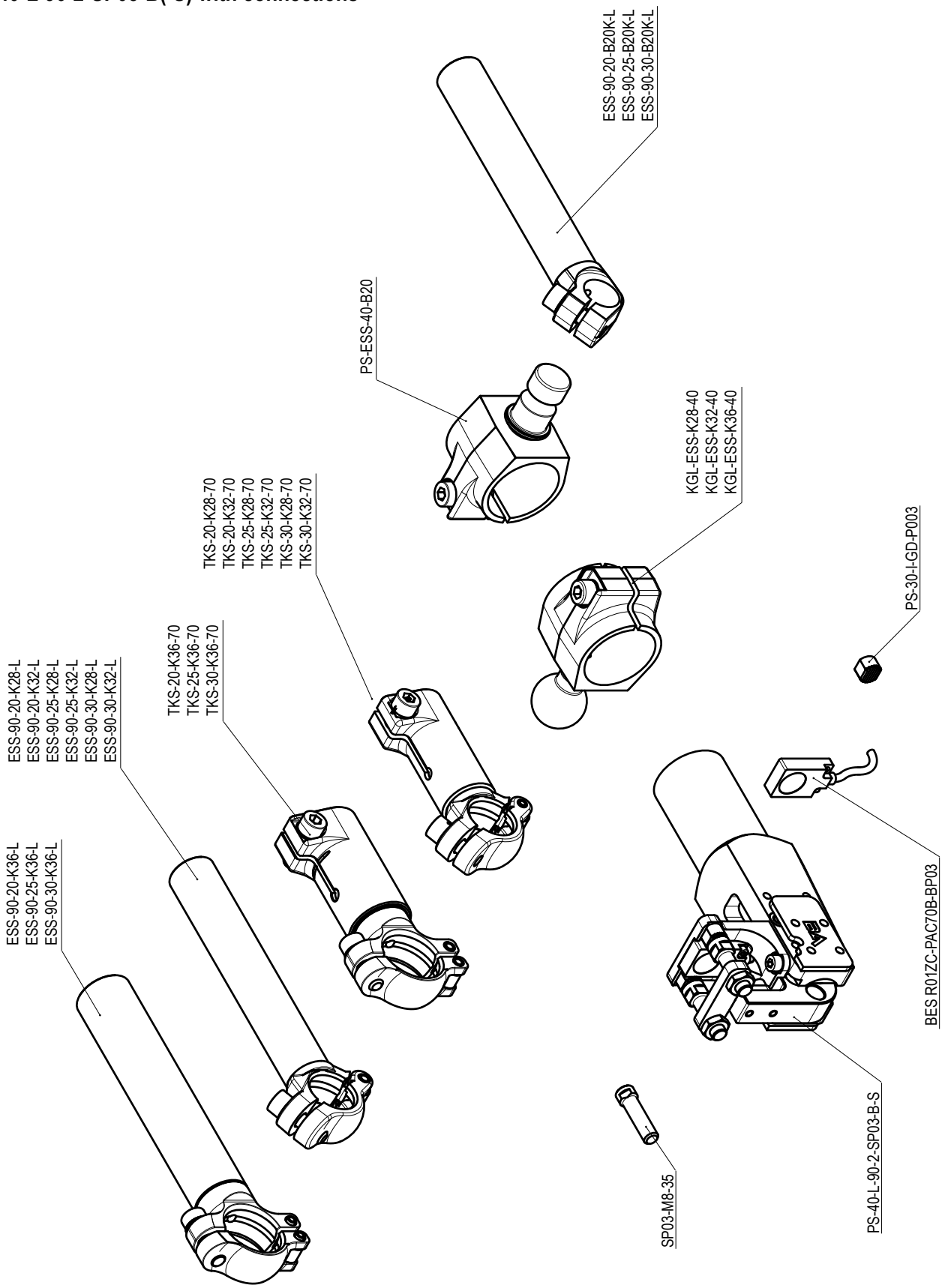
Self-locking

High strength aluminium

Other sizes upon request

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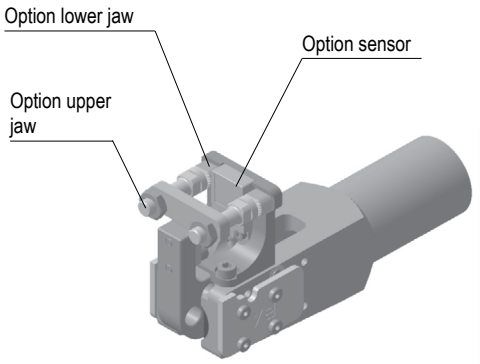
PS-40-L-90-2-SP03-B(-S) with connections

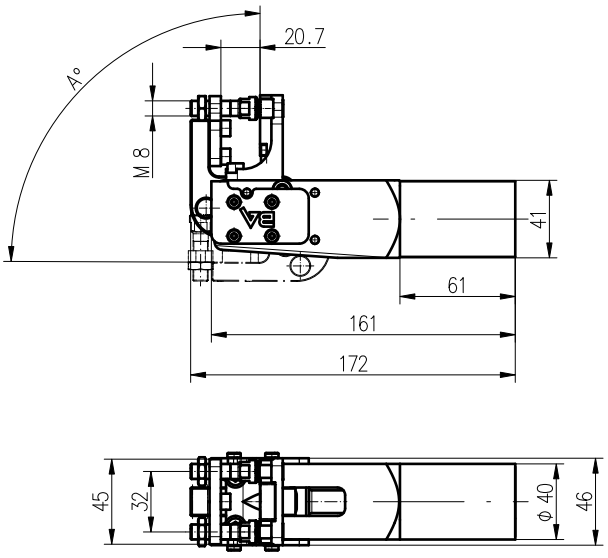


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Pneumatic clamp, PS-40-L-90-2-SP03-B(-S)





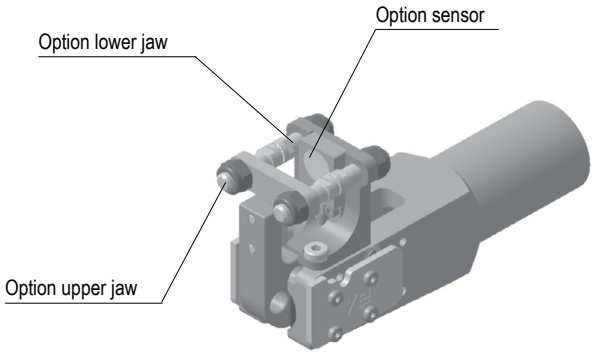
Part no.	Aperture angle°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PS-40-L-90-2-SP03-B	90°	SP03	B	-	0.85
PS-40-L-90-2-SP03-B-S				S	

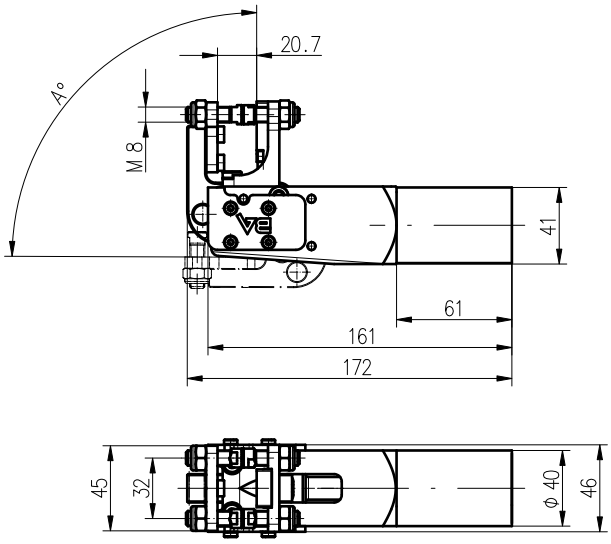
Option upper jaw (clamping pin)	Part no.
SP03	SP03-M8-35

Option lower jaw	Part no.
B	PS-30-I-GD-P003

Option Sensor	Part no.
S	BES R01ZC-PAC70B-BP03

Pneumatic clamp, PS-40-L-90-2-SP03-SP03(-S)





Part no.	Aperture angle	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PS-40-L-90-2-SP03-SP03	90°	SP03	SP03	-	0.92
PS-40-L-90-2-SP03-SP03-S				S	

Option upper jaw (clamping pin*)	Part no.
SP03	SP03-M8-30

Option lower jaw (clamping pin*)	Part no.
SP03	SP03-M8-30

Option Sensor	Part no.
S	BES R01ZC-PAC70B-BP03

*Execution with other clamping pins on request
Option upper jaw / Option lower jaw / Option Sensor: Dimensions see separate data sheet

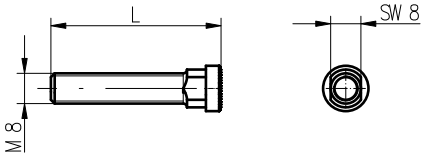
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Clamping pin



Material: Steel

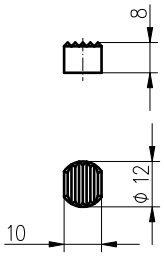


Part no.	L	(kg)
SP03-M8-23	23	0.011
SP03-M8-30	30	0.014
SP03-M8-35	35	0.016
SP03-M8-45	45	0.020
SP03-M8-55	55	0.024

Block jaw



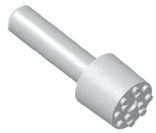
0.006 kg
Material: Steel



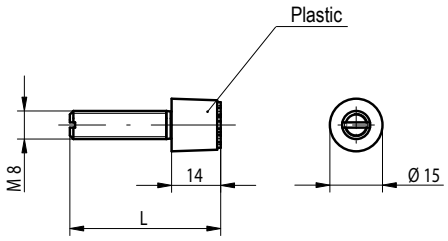
Part no.
PS-30-I-GD-P003

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Clamping pin

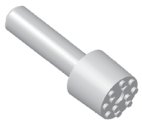


Material: Steel / Plastic

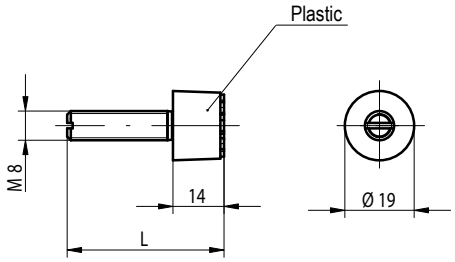


Part no.	L	(kg)
SP07-M8-38	38	0.015
SP07-M8-43	43	0.017
SP07-M8-48	48	0.019

Clamping pin



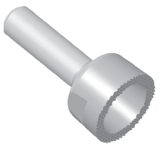
Material: Steel / Plastic



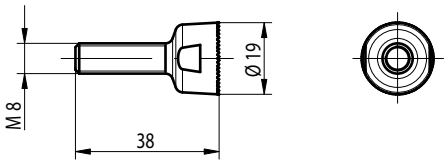
Part no.	L	(kg)
SP13-M8-38	38	0.016
SP13-M8-43	43	0.018
SP13-M8-48	48	0.020

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Clamping pin



0.024 kg
Material: Steel

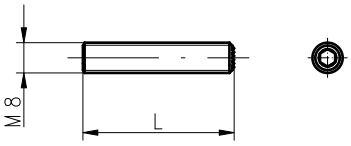


Part no.
SP14-M8-38

Clamping pin



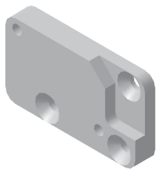
Material: Steel

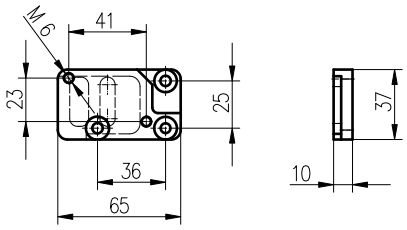


Part no.	L	(kg)
SP15-M8-25	25	0.009
SP15-M8-30	30	0.011
SP15-M8-35	35	0.013
SP15-M8-40	40	0.015
SP15-M8-45	45	0.017
SP15-M8-55	55	0.021

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Sensor holder, left

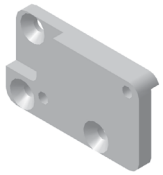


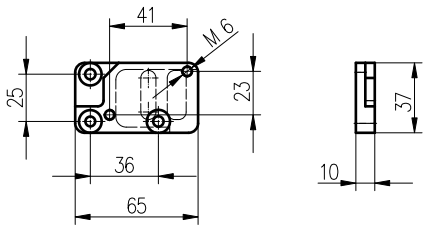


0.05 kg
Material: Aluminium

Part no.
PS-40-OGL-25-36-L

Sensor holder, right



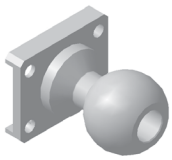


0.05 kg
Material: Aluminium

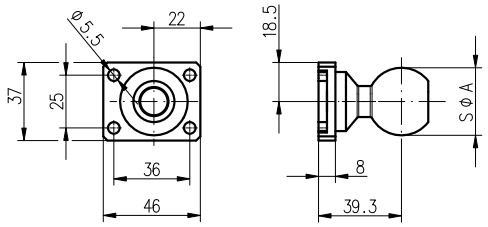
Part no.
PS-40-OGL-25-36-R

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Ball mount

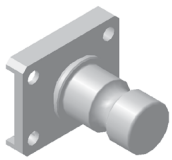


Material: Steel

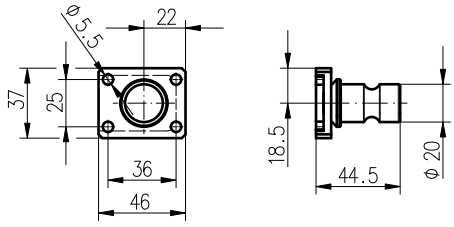


Part no.	SØ A	▮ (kg)
PS-40-I-25-36-K28	28.5	0.188
PS-40-I-25-36-K32	32.0	0.218
PS-40-I-25-36-K36	36.0	0.240

Bolt mount



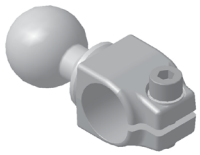
▮ 0.149 kg
Material: Steel

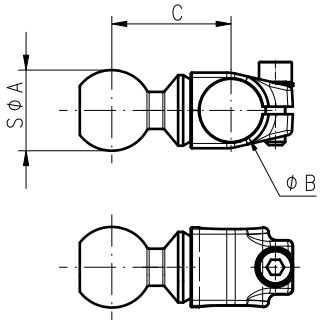


Part no.
PS-40-I-40-B20

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Ball mount for pneumatic clamp

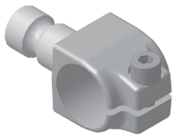


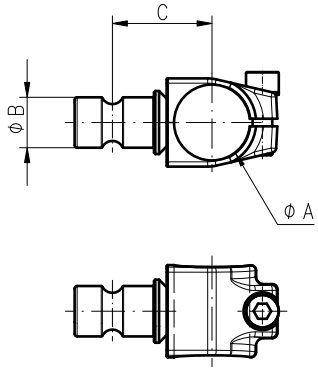


Material: Steel

Part no.	S Ø A	Ø B	C	(kg)
KGL-ESS-K28-20	28.5	20	42.6	0.193
KGL-ESS-K28-25	28.5	25	45.6	0.227
KGL-ESS-K28-30	28.5	30	48.2	0.262
KGL-ESS-K28-40	28.5	40	54.0	0.458
KGL-ESS-K32-25	32.0	25	46.8	0.278
KGL-ESS-K32-30	32.0	30	49.3	0.446
KGL-ESS-K32-40	32.0	40	55.3	0.502
KGL-ESS-K36-30	36.0	30	51.3	0.322
KGL-ESS-K36-40	36.0	40	57.3	0.514

Bolt mount for pneumatic clamp



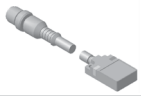
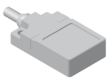
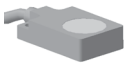


Material: Steel

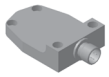
Part no.	Ø A	Ø B	C	(kg)
PS-ESS-30-B19	30	19	39.5	0.230
PS-ESS-30-B20	30	20	39.5	0.238
PS-ESS-40-B19	40	19	45.5	0.422
PS-ESS-40-B20	40	20	45.5	0.431

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Electric

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	Sensor	447
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	Sensor	455
	Sensor	456
	Sensor	457
	Sensor	457
	Sensor	458
	Sensor	458
	Sensor	459
	Sensor	459

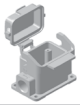
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	Sensor	460
	Sensor	460
	Photoelectric proxmity sensor	461
	Sensor	462
	Sensor	463
	Sensor	463
	Angle light barrier	464
	Angle light barrier	464
	Angle light barrier	465
	Angle light barrier	465
	Angle light barrier	466
	Angle light barrier	466
	Angle light barrier	467
	Angle light barrier	467
	Inductive Proximity switch	468
	Connector with cable	468

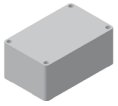
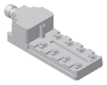
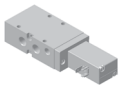
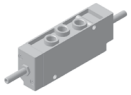
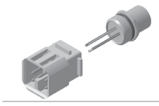
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Electric

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	Connector	473
	Data carrier	474
	Hood	474
	Male insert	474
	Crimp contact	475
	Male insert	475
	Housing surface mounting	475
	Housing surface mounting	476

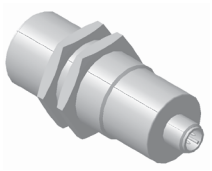
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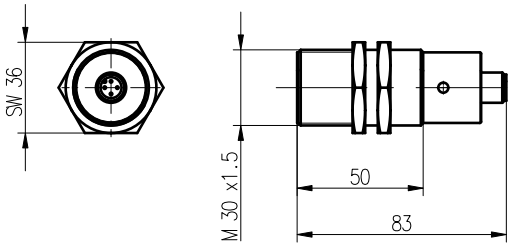
Picture	Designation	Page
	Male insert	476
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	Variables	481
	Cable harness	482

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Sensor





Part no.
BES 516-327-S4-C

Common Data

Mounting in steel	shielded
Rated operating distance Sn	10mm
Assured operating distance Sa	0...8.1mm
Repeatability R	<= 5%
Hysteresis	<= 15%
Function indication yes	
Ambient temperature range	-25...+70°C
Polution Degree	3
IEC-Code	I1A30AP2
Time delay before availability	<= 10ms

Mechanical Data

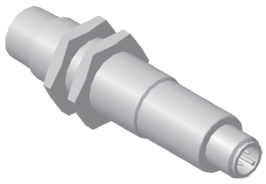
Measurements BxHxT or DxT	M30x1.5 x 83mm
Housing material	nickel plated brass
Material of sensing face	PA 12
Degree of protection	IP68 acc. BWN Pr 20IP
Connection	Connector S4
Schock:	Halfsinus, 30 gn, 11ms
Vibration:	55 Hz, 1mm Amplitude, 3 x 30
Minutes	

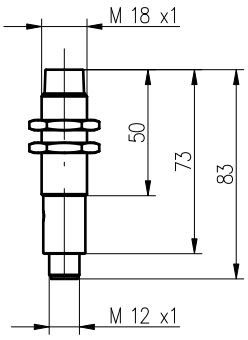
Electrical Data

Current type	DC
Wiring	3-Wire
switching function	normally-open
Output signal	PNP
Rated opertional voltage	24 DCV
Rated opertional current	200mA
Supply voltage	10...30 DCV
Ripple	<= 15%
max. switching frequency	300Hz
No-load supply current	<= 25/<= 12mA
Off-state current	<= 80µA
Voltage drop	<= 2.5/-V
Short circuit protection yes	
Protected against polarity reversal yes	

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Sensor





Part no.
BES 516-360-G-S4-H

Characteristic data

Assured operating distance	Sa 13
Eff. switching distance Sr	16 mm
Tolerance Sr	±10 %
Hysteresis H max. (in % of Sr)	15 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of Sr)	10 %
Switching freq. f max.	80 Hz
Ready delay tv max.	10 ms
Utilisation category	DC 13
Function indicator	Yes
Power indicator	No
Short-circuit protected	Yes
Protected against polarity reversal	Yes
Protected against miswiring	Yes
Enclosure Type per IEC 60529	IP68 according to BWN PR 20
Protection class	II
Principle of operation Inductive	

Electrical data

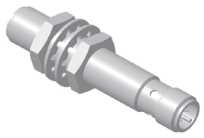
Operating voltage	10...55 V DC
Ripple max. (% of Ue)	15
Rated operating voltage Ue DC	24 V
Voltage drop static max.	2,5 V
Rated insulation voltage Ui	250 AC
Effective operating current Ie	200 mA
No-load current Io damped max.	15 mA
Max. no-load cur. Io undamped	5 mA
Off-state current Ir max.	80 µA
Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra 33.0k + D	
Load capacitance max. (at Ue) 1 µF	

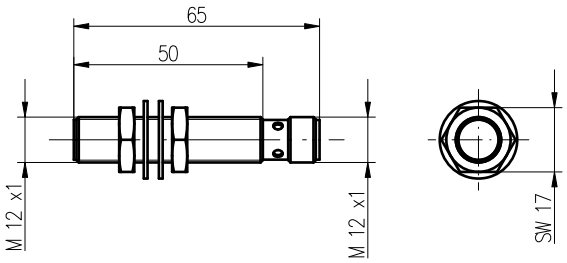
Mechanical data

Connection type	Connector
Connector type	M12x1-S04
Housing material	CuZn
Oberflächenschutz	Nickel-plated
Sensing surface material	PA 12
Mounting length	40 mm
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3

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Sensor

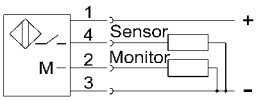




Part no.
BES M12MI-PSC40B-S04G-M01

Connection diagram

PNP



Characteristic data

Assured operating distance Sa	3,2
Eff. switching distance Sr	4 mm
Tolerance Sr	±10 %
Hysteresis H max. (in % of Sr)	15 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of Sr)	10%
Switching freq. f max.	1000 Hz
Ready delay tv max.	10 ms
Utilisation category	DC 13
Function indicator	Yes
Power indicator	No
Short-circuit protected	Yes
Protected against polarity reversal	Yes
Protected against miswiring	Yes
Enclosure Type per IEC 60529	IP68 according to BWN PR 20
Protection class	II
Principle of operation	Inductive

Electricle data

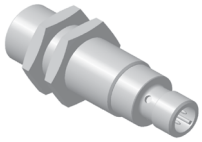
Operating voltage	10...30 V DC
Ripple max. (% of Ue)	15
Rated operating voltage Ue DC	24 V
Voltage drop static max.	2,5 V
Rated insulation voltage Ui	250 AC
Effective operating current Ie	200 mA
No-load current Io damped max.	12 mA
Max. no-load cur. Io undamped	5 mA
Off-state current Ir max.	10 µA
Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra	33.0k + D
Load capacitance max. (at Ue)	0,5 µF

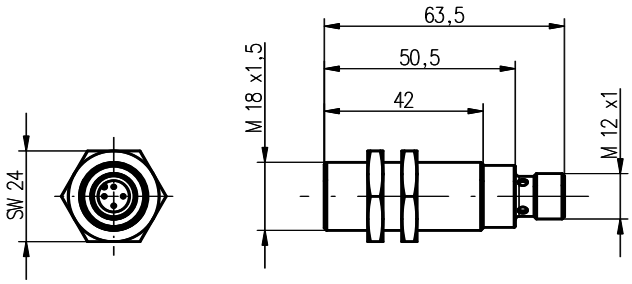
Mechanical data

Connection type	Connector
Connector type	M12x1-S04
Housing material	CuZn
Oberflächenschutz	Nickel-free coating
Sensing surface material	LCP
Mounting length	50 mm
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3
Tightening torque	10 Nm / 15 Nm

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Sensor

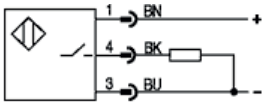




Part no.
BES M18MG1-PSC12B-S04G

Connection diagram

PNP

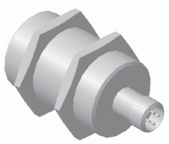


Characteristic data	
Assured operating distance Sa	9,6
Eff. switching distance Sr	12 mm
Tolerance Sr	±10 %
Hysteresis H max. (in % of Sr)	10 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of Sr)	10%
Switching freq. f max.	500 Hz
Ready delay tv max.	50 ms
Utilisation category	DC 13
Function indicator	Yes
Power indicator	No
Short-circuit protected	Yes
Protected against polarity reversal	Yes
Protected against miswiring	Yes
Enclosure Type per IEC 60529	IP67
Principle of operation	Inductive
Electrical data	
Operating voltage	10...30 V DC
Ripple max. (% of Ue)	20
Rated operating voltage Ue DC	24 V
Voltage drop static max.	2 V
Rated insulation voltage Ui	75 DC

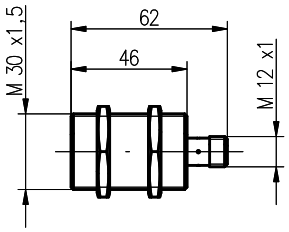
Effective operating current Ie	200 mA
No-load current Io damped max.	10 mA
Max. no-load cur. Io undamped	10 mA
Off-state current Ir max.	100 µA
Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra	47.0k
Load capacitance max. (at Ue)	1 µF
Mechanical data	
Connection type	Connector
Connector type	M12x1-S04
Housing material	CuZn
Oberflächenschutz	Chrome-plated
Sensing surface material	PBT
Mounting length	42 mm
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3
Tightening torque	25 Nm

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Sensor

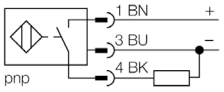






Part no.
Bi15U-M30-AP6X-H1141

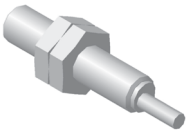
Connection diagram
PNP

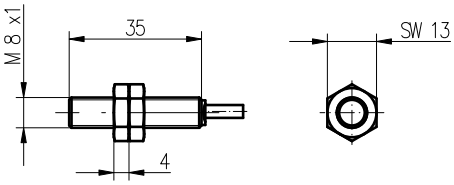


Rated operating distance Sn	15 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperaturdrift	10 %
	≤ ± 15 %, ≤ -25 °C v ï +70 °C
Hysteresis	3…15 %
Ambient temperature	-30…+85 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % Uss
DC rated operational current	≤ 200 mA
No-load current I0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at Ie	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Protection class	÷
Switching frequency	1 kHz
Design	threaded barrel, M30 x 1.5
Dimensions	62 mm
Housing material	metal, CuZn, chrome-plated
Material active face	Plastic, LCP
Max. tightening torque housing nut	75 Nm
Connection	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED yellow

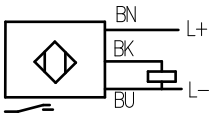
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Sensor





Connection diagram



Part no.
PSB-S9-2000

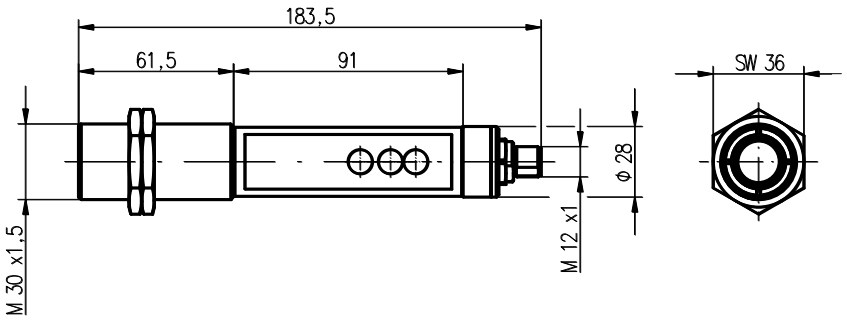
Technical data	**DC pnp**
Service voltage:	10...30 V DC
Electrical design:	3-Leiter DC PNP; 2-Leiter DC PNP/NPN
Output function:	Schließer
Ampacity :	100 mA
Length:	37 mm
Mounting:	flush mountable
Operating distance:	3 mm
Switching frequency:	1000 Hz
Mount:	PVC-cable / 2 m; 3 x 0,14 mm²
Ambient temperature:	0...70 °C
Protection degree:	IP 67
Switch state display:	LED yellow

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Temperature sensor





Part no.
TW2000

Application

Application	asphalt, coated metal, liquids, glass, rubber, wood, ceramics, plastics, lacquers, food products, paper, fabric

Electrical data

Electrical design	DC PNP
Operating voltage [V]	18...32 DC; to SELV/PELV
Current consumption [mA]	< 50
Insulation resistance [MΩ]	> 100 (500 V DC)
Protection class	III
Reverse polarity protection	yes

Outputs

Output	Switching output, Analogue output
Output function	normally open / closed programmable
Current rating [mA]	150
Voltage drop [V]	< 2.5
Short-circuit protection	pulsed
Short-circuit proof	yes
Overload protection	yes
Analogue output	4...20 mA
Max. load [Ω]	500

Measuring / setting range

Measuring range	0...999.5 °C
wave length range [µm]	8...14

Accuracy / deviations

Accuracy	< ± 1 %
Repeatability [K]	1

Reaction times

Power-on delay time [s]	< 1
Response time Switching output [ms]	< 100

Software / programming

Adjustment of the switch point	Programming buttons
Programming options Analogue range;	NO / NC; switch-on / switch-off delay; damping, peak hold

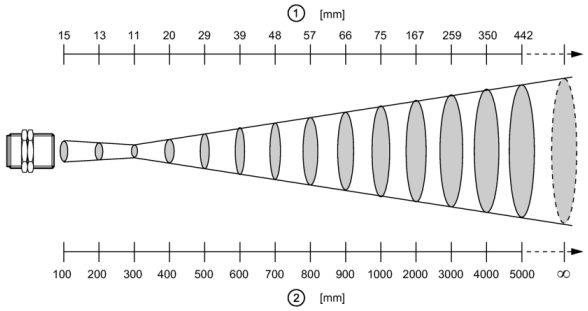
Environment

Ambient temperature [°C]	0...65
Storage temperature [°C]	-20..80
Max. relative air humidity	< 95 % (non condensing)
Protection	IP 65

Displays / operating elements

Display	Display unit 2 x LED yellow Switching status 1 x LED yellow Function display 7-segment LED display 4-digit Measured values 7-segment LED display 4-digit
Operating elements	3 Pushbuttons

Measuring range / distance [mm]

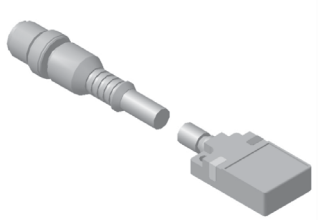


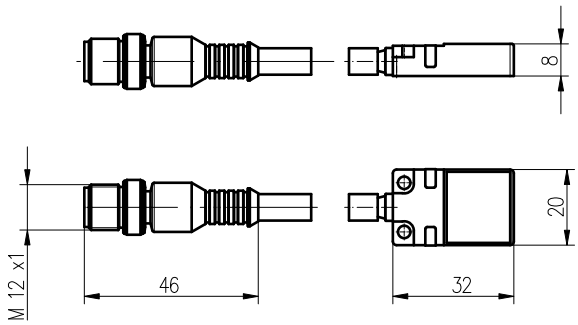
1: diameter of the measured spot; 2: measuring distance

Setting range	
Set point, SP	1...999.5 °C 34...1831 °F
Reset point, rP	0...998.5 °C 32...1829 °F
Analogue start point, ASP	0...799.5 °C 32...1471 °F
Analogue end point, AEP	200...999.5 °C 392...1831 °F
in steps of	0.5 °C 1 °F
Resolution	
Switching output [K]	0.5
Analogue output [K]	0.2; + 0.03 % of the set measuring span
Display [K]	0.5

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Sensor





Part no.
BES R01ZC-PAC70B-BP00.2-GS04

Characteristic data

Rated operating distance Sn	7 mm
Tolerance Sr	±10 %
Assured operating distance Sa	0...5,6 mm
Hysteresis H max. (in % of Sr)	15 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of Sr)	10%
Switching freq. f max.	150 Hz
Ready delay tv max.	20 ms
Utilisation category	DC 13
Function indicator	Yes
Power-on indicator	Yes
Funktion protected	Yes
Enclosure IEC 60529	IP67
Protected against polarity reversal	Yes
Protected against reverse connection	Yes

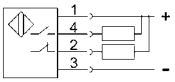
Electrical data

Operating voltage	10...30V DC
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Voltage drop static max.	2,5 V
Rated insulation voltage Ui	75 DC V
Effective operating current Ie	200 mA
No-load current Io damped	15 mA
No-load current Io undamped	15 mA
Off-state current Ir max.	80 µA
Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra	33.0k + D
Load capacitance max. (at Ue)	1 µF
Principle of operation	Inductive

Mechanical data

Housing material	GD-Zn
Sensing surface material	PA 12
Connection type	Cable with connector, M12x1
Connector type	M12X1-S04
Cable jacket material	PVC
Cable diameter D max.	3,9 mm
Cable short designation	LiFY11Y-O
Cable length	0,2 m
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3

Connection diagram



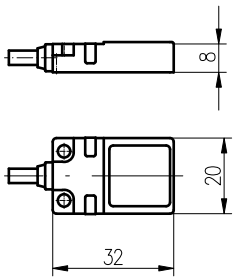
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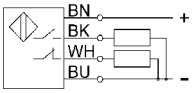
Sensor



Part no.
BES R01ZC-PAC70B-BP03



Connection diagram



Characteristic data

Eff. switching distance Sr	7 mm
Tolerance Sr	±10 %
Assured operating distance Sa	5,6 mm
Hysteresis H max. (in % of Sr)	15 %
Repeat accur. R max. (% of Sr)	5 %
Ambient temperature	-25...70 °C
Temp. drift max. (% of Sr)	10%
Switching freq. f max.	150 Hz
Ready delay tv max.	20 ms
Utilisation category	DC 13
Function indicator	Yes
Power-on indicator	Yes
Short-circuit protected	Yes
Degree of protection as per IEC 60529	IP67
Protected against polarity reversal	Yes
Protected against reverse connection	Yes

Electrical data

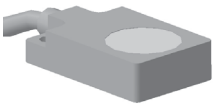
Operating voltage	
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Voltage drop static max.	2,5 V
Rated insulation voltage Ui	75 DC V
Effective operating current Ie	200 mA
No-load current Io damped	15 mA
No-load current Io undamped	15 mA
Off-state current Ir max.	80 µA
Minimum operating current Im	0 mA
Rated short circuit current	100 A
Output resistance Ra	33.0k + D
Load capacitance max. (at Ue)	1 µF
Principle of operation	Inductive

Mechanical data

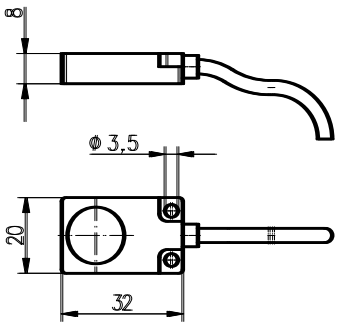
Housing material	GD-Zn
Sensing surface material	PA 12
Connection type	Cable
Cable jacket material	PUR
Cable diameter D max.	3,8 mm
Cable short designation	LiFYY11Y-O
Cable length	3 m
Number of conductors	4
Conductor cross-section	0.14 mm²
Shock rating	Shock, half-sinus, 30 gn, 11ms
Vibration rating	55 Hz, 1 mm ampl., 3x30 min
Degree of contamination	3

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Sensor

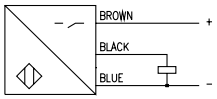


Part no.	(kg)
PS-A126352Q32511	0.07



Connection diagram

PNP



Electrical Data

Supply voltage	10-30 V DC
Maximum load current	200 mA
Maximum load current	< 20 mA
Voltage drop	< 2 V
Current requirements	< 70 µA
Temperature range	-25 to 70° C
Hysteresis	3 to 15 %
Repetition accuracy	< 5 %

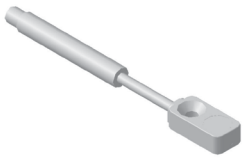
Particular protections

Short circuit protection
Overload protection
Reverse polarity protection
Power on pulse suppression
IP 67
Output state visualisation LEDs
Green LED (power)
Red LED (closed)
yellow LED (open)

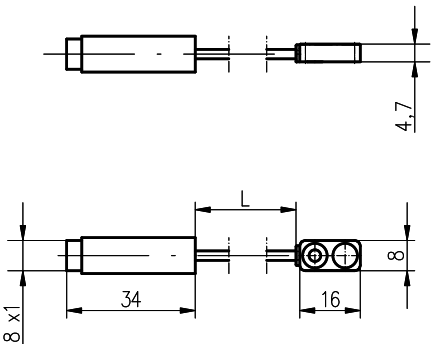
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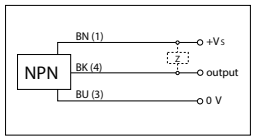
Sensor



Part no.
IFFM 08P17A6/KS35L



Connection diagram



General data

mounting type	flush
nominal sensing distance Sn	2 mm
Hysteresis	2...20 % von Sr
output indicator	LED red

Electrical Data

switching frequency	< 5 kHz
voltage supply range +Vs	10...30 VDC
current consumption max. (no load)	12mA
output circuit	PNP make function (NO)
voltage drop Vd	< 2 VDC
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

Mechanical data

type	rectangular
material (sensing face)	PBT
housing material	die-cast zinc nickel plated
dimension	8 mm
housing length	16 mm
connection types	cable, 2 m

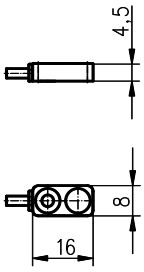
Environment

operating temperature	-25...+75°C
protection class	IP 67

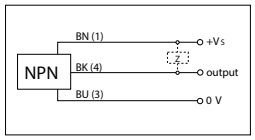
Sensor



Part no.
IFFM 08P17A6/L



Connection diagram



General data

mounting type	flush
nominal sensing distance Sn	2 mm
Hysteresis	2...20 % von Sr
output indicator	LED red

Electrical Data

switching frequency	< 5 kHz
voltage supply range +Vs	10...30 VDC
current consumption max. (no load)	12mA
output circuit	PNP make function (NO)
voltage drop Vd	< 2 VDC
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

Mechanical data

type	rectangular
material (sensing face)	PBT
housing material	die-cast zinc nickel plated
dimension	8 mm
housing length	16 mm
connection types	cable, 2 m

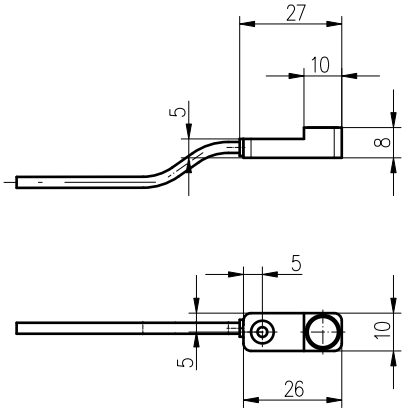
Environment

operating temperature	-25...+75°C
protection class	IP 67

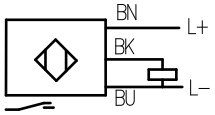
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Sensor





Connection diagram



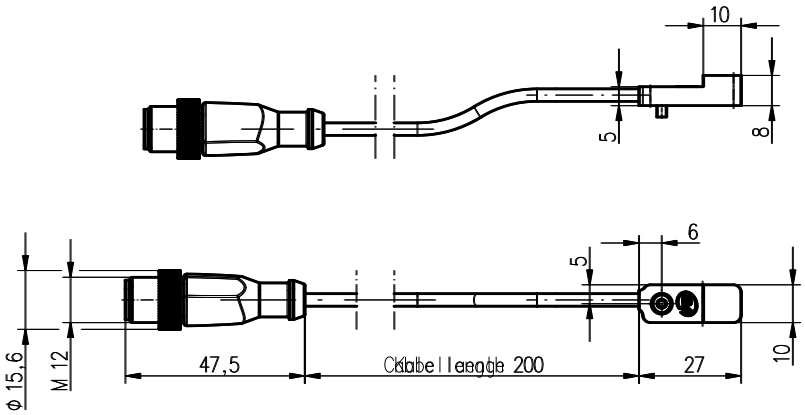
Part no.
PSB-S-2000

Technical data	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 10
Protection class	III
Reverse polarity protection	yes
Outputs	
Output function	normally open
Voltage drop [V]	< 2,5
Current rating [mA]	100
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	100

Range	
Sensing range [mm]	4
Operating distance [mm]	0...3,24
Accuracy / deviations	
Hysteresis [% von Sr]	1...15
Environment	
Ambient temperature [°C]	0...50
Protection	IP 67

Sensor



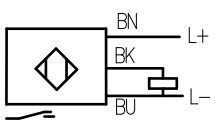


Part no.
PSB-S1-200

Technical data	DC PNP
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 10
Protection class	III
Reverse polarity protection	yes
Outputs	
Output function	normally open
Voltage drop [V]	< 2,5
Current rating [mA]	100
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	100

Range	
Sensing range [mm]	4
Operating distance [mm]	0...3,24
Accuracy / deviations	
Hysteresis [% von Sr]	1...15
Environment	
Ambient temperature [°C]	0...50
Protection	IP 67

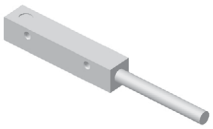
Connection diagram

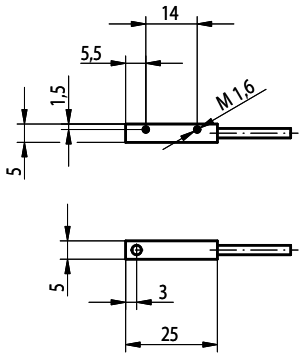


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Sensor



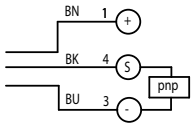


Part no.
DCCQ 05 M 1.5 PSK-K-TSL

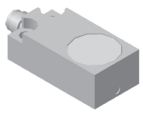
Electrical Data

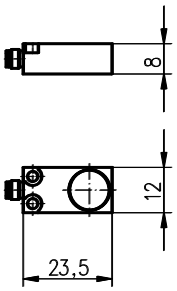
Operating principle	Inductive
Evalation	digital
Operating distance	1,5 mm
Supply voltage	10-35 V DC
Internal power consumption	< 1 mA
Operating frequency	3000 Hz
Hysteresis	5 %
Voltage drop	< 2,0 V
Temperature range	-25 to 70° C
Insulation voltage endurance	500 V
Protection degree	IP67

Connection diagram

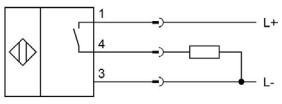


Sensor





Connection diagram

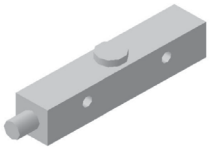


Part no.
IB110160

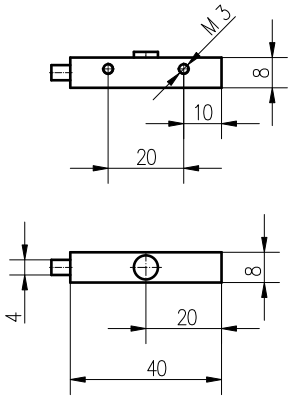
Technical data	**DC pnp**
Service voltage	10 ... 30V DC
Current consumption (ohne Last)	< 10mA
Voltage drop (max Last)	< 2V
Ampacity (max. Last)	200mA
Switching frequency	2000Hz max.
Operating distance Sn	4mm
Hysteresis	3 ... 20% von Sn
Anzeige (Schaltzustand)	LED rot
Protection degree (EN 60529)	IP67
Ambient temperature	-25 ... +75°C
Mount	Compatible with M5 type connectors

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Sensor



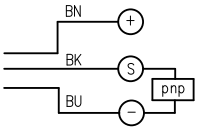
Part no.
DCQZ 08 M 1.5 PSLK



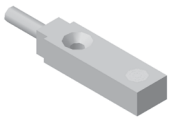
Electrical Data

Operating principle	Inductive
Evalation	digital
Operating distance	1,5 mm
Supply voltage	10-35 V DC
Internal power consumption	< 6 mA
Operating frequency	2000 Hz
Hysteresis	3 ... 15 %
Voltage drop	< 2,0 V
Temperature range	-25 to 70° C
Insulation voltage endurance	500 V
Protection degree	IP67

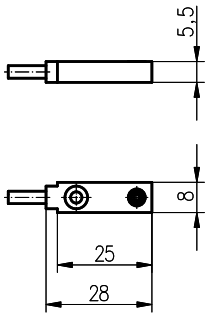
Connection diagram



Sensor

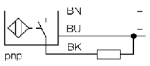


Part no.
Ni3.5-Q5.5-AP6X



Connection diagram

PNP



Rated operating distance Sn	3.5 mm
Mounting condition	non-flush
Assured sensing range	(0,81 x Sn) mm
Correction factors	St37 = 1, V2A ~ 0.7, Ms ~ 0.4, Al ~ 0.3
Repeatability	≤ 2 %
Temperaturdrift	10 %
Hysteresis	3…15 %
Ambient temperature	-25…+70 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % Uss
DC rated operational current	≤ 150 mA
No-load current	I0 ≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at Ie	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Switching frequency	2 kHz

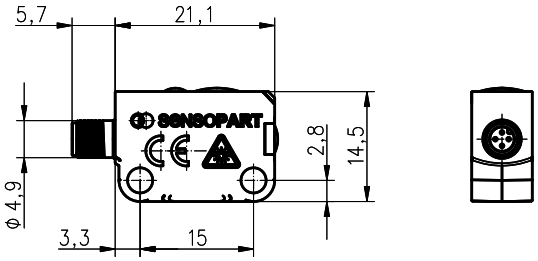
Design	rectangular, Q5.5
Dimensions	28x 8x 5.5 mm
Housing material Plastic,	PP-GF20
Tightening torque fixing screw	0.5 Nm
Connection	cable
Cable quality	3 mm, LifYY-11Y, PUR, 2 m
Cable cross section	3 x 0.14 mm2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Switching state	LED yellow

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Photoelectric proxmity sensor





Part no.
FT 10-RF2-PS-KM4

Optical data	
Scanning distance	2 … 15 mm 2 … 30 mm 2 … 50 mm
Used light	LED, red, 650 nm

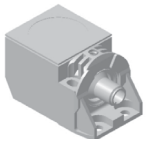
Electrical data	
Operating voltage, +UB	10 … 30 V DC
No-load current, I0	≤ 20 mA
Output current, Ie	≤ 50 mA
Protective circuits	Reverse-polarity protection, UB / short-circuit protection (Q)
Protection class	2
Power On Delay	< 300 ms
Switching output Q	PNP/NPN (see Selection Table)
Output function	N.O. /N.C.
Switching frequency f (ti/tp 1:1)	≤ 1000 Hz
Response time	500 µs
Control input IN	+UB = N.C. - UB / open = N.O.

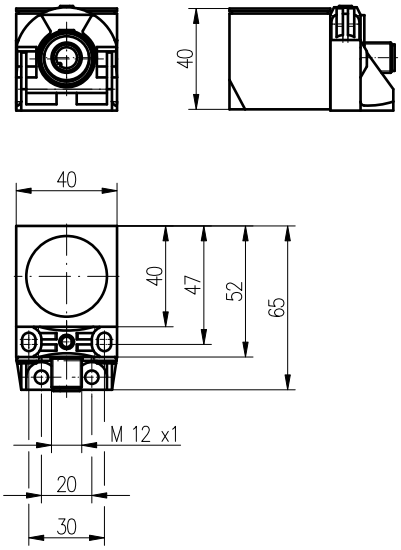
Functions	
Indicator LED, green	Operating voltage indicator
Indicator LED, yellow	Switching output indicator
Adjustment possibilities	N.O. / N.C. via control input

Mechanical data	
Dimensions	21,1 x 14,6 x 8 mm
Enclosure rating	IP 674
Material, housing	PUR
Material, front screen	PMMA
Ambient temperature: operation	-20 … +60 °C
Ambient temperature: storage	-20 … +80 °C
Weight (cable device)	approx.. 22 g
Weight (pigtail)	approx.. 10 g

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Sensor





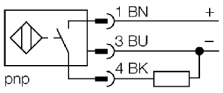
Part no.
Ni35U-CK40-AP6X2-H1141

-

Rated operating distance	**Sn35 mm**
Mounting condition	non-flush, partially embeddable
Assured switching	distance ≤ (0,81 x Sn) mm
Repeatability	≤ 2 % of full scale
Temperature drift	10 %
	≤ ± 20 %, ≤ -25 °C v ï +70 °C
Hysteresis	3…15 %
Ambient temperature	-30…+85 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % Uss
DC rated operational current	≤ 200 mA
No-load current I0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at Ie	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Protective insulation	÷
Switching frequency	0.25 kHz
Design	rectangular, CK40
Dimensions	65 x 40 x 40 mm
	variable orientation of active face in 5 directions
Housing material	plastic, PBT, black
Connection male,	M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed.99) 40 °C
Power-on indication	2 LEDs green
Switching state	LED yellow
Included in scope of supply	Fixing clamp BS4-CK40

Connection diagram

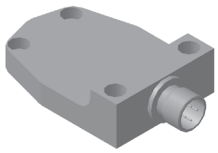
PNP

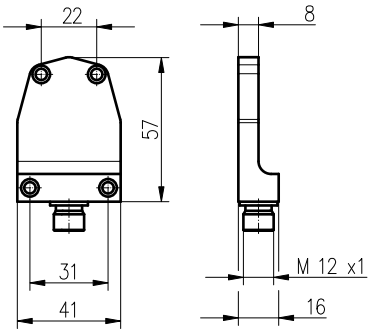


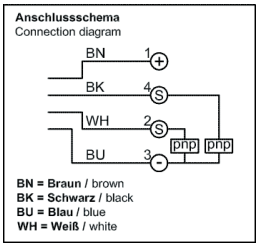
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Sensor





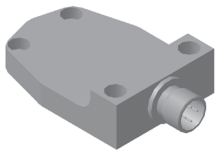


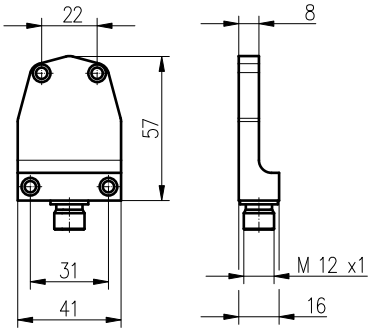
Part no.	(kg)
DC 10208	0.04

Electrical Data

Supply voltage	10-35 V DC
Maximum load current	200 mA
Internal power consumption	< 20 mA
Operating frequency	2000 Hz
Hysteresis	3 ... 15 %
Temperature range	-25 to 70° C
Insulation voltage endurance	500 V
Protection degree	IP67

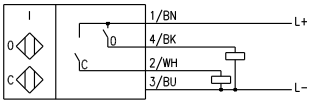
Sensor





Connection diagram

PNP



Part no.	(kg)
A-126305Q570111	0.04

Electrical Data

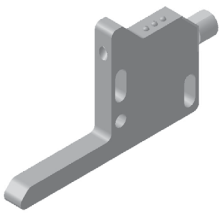
Supply voltage	10-30 V DC
Maximum load current	200 mA
Maximum load current	< 20 mA
Voltage drop	< 2 V
Current requirements	< 70 µA
Temperature range	-25 to 70° C
Hysteresis	3 to 15 %
Repetition accuracy	< 5 %

Particular protections

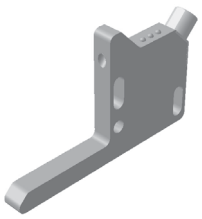
Short circuit protection
Overload protection
Reverse polarity protection
Power on pulse suppression
IP 67
Output state visualisation LEDs
Green LED (power)
Red LED (closed)
yellow LED (open)

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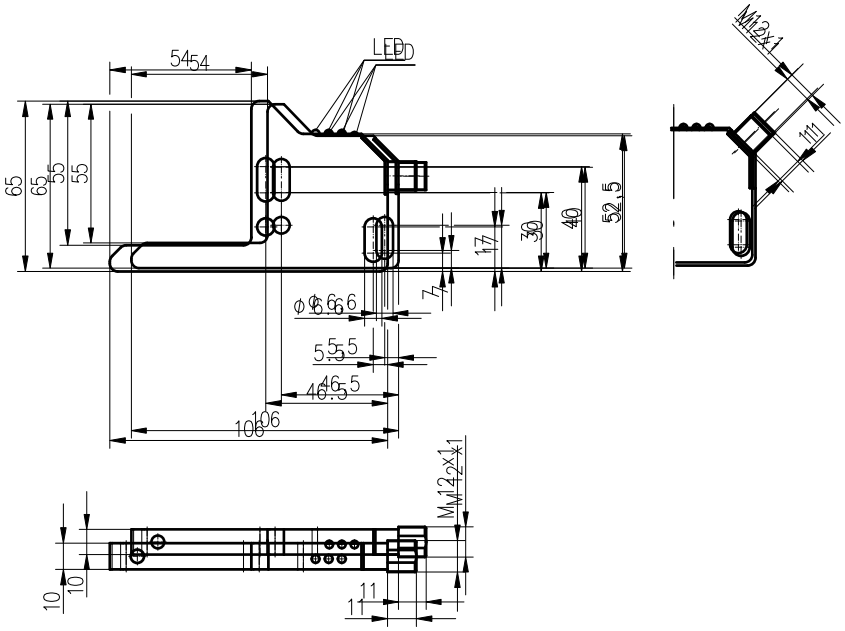
Angle light barrier



OGL 55/54 P6L-IBS

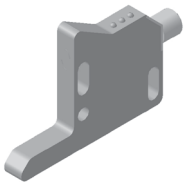


OGL 55/54 P6L-RIBS/PE

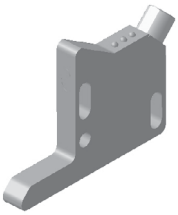


Part no.	Function	Connector
OGL 55/54 P6L-IBS	PNP	4 Pin
OGL 55/54 P6L-RIBS/PE	PNP	5 Pin

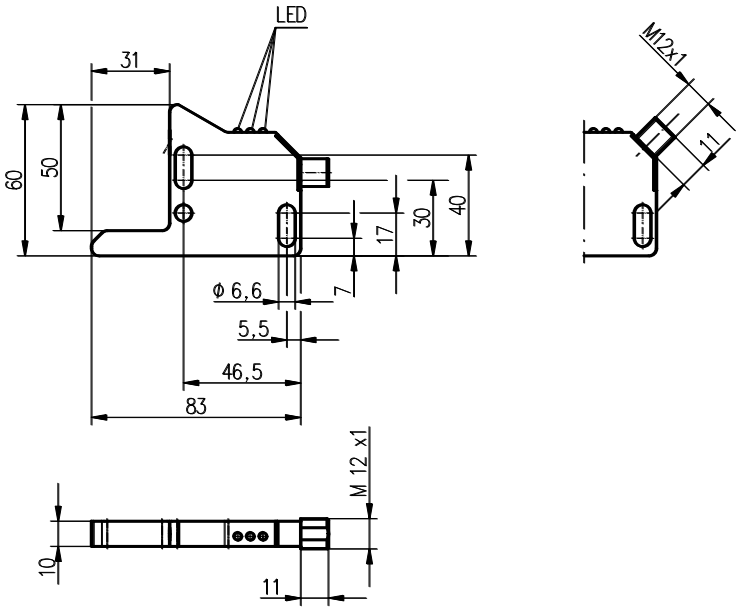
Angle light barrier



OGL 50/31 P6L-IBS



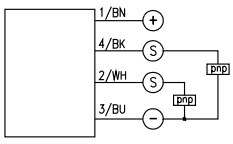
OGL 50/31 P6L-RIBS/PE



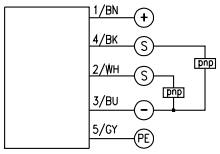
Part no.	Function	Connector
OGL 50/31 P6L-IBS	PNP	4 Pin
OGL 50/31 P6L-RIBS/PE	PNP	5 Pin

TECHNICAL INFORMATION (typ.)	**+20°C, 24V DC**
Design	Angle
Emitted	light Red, 660 nm, clocked
Service voltage	10 ... 35 V DC
Internal power consumption	< 45 mA
Sensitivity adjustment	no setting elements
Switching output	pnp, 200 mA, NO
Contamination output	pnp, 200 mA
Operating frequency	200 Hz
Ambient temperature	-10 … +60 °C
Ambient light immunity	50 kLx
Protection class	IP 67
Casing material	die-cast zinc
Connection	Connector, M12

Connection diagram
IBS / RIBS



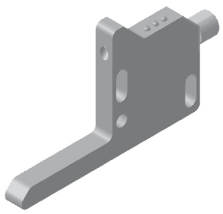
Connection diagram
RIBS/PE



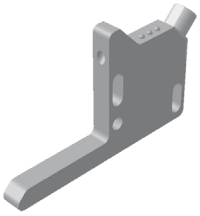
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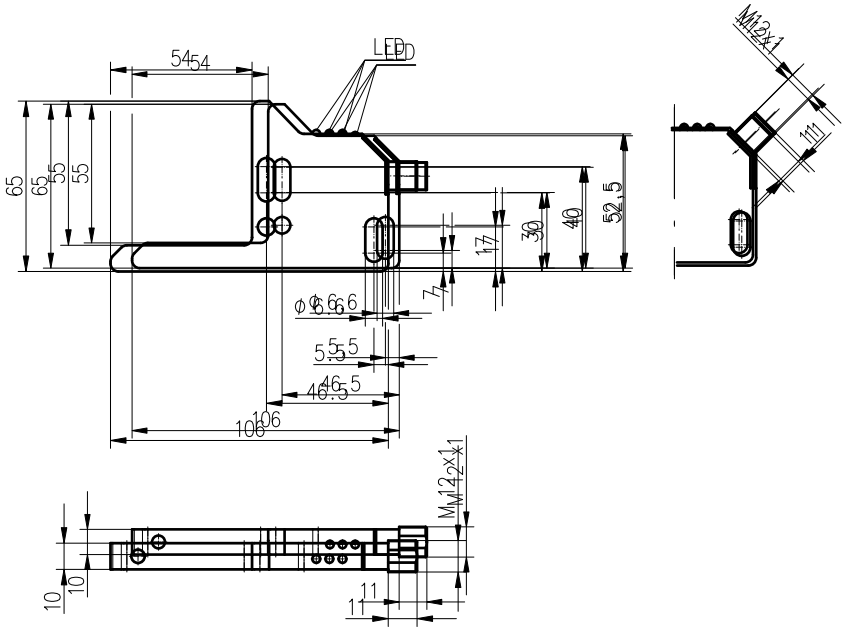
Angle light barrier



OGL 55/54 P6L-IBS/PE

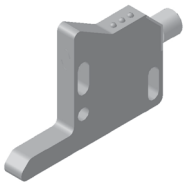


OGL 55/54 P6L-RIBS/PE

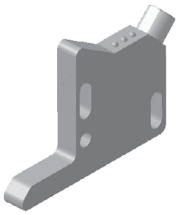


Part no.	Function	Connector
OGL 55/54 P6L-IBS/PE	PNP	5 Pin
OGL 55/54 P6L-RIBS/PE	PNP	5 Pin

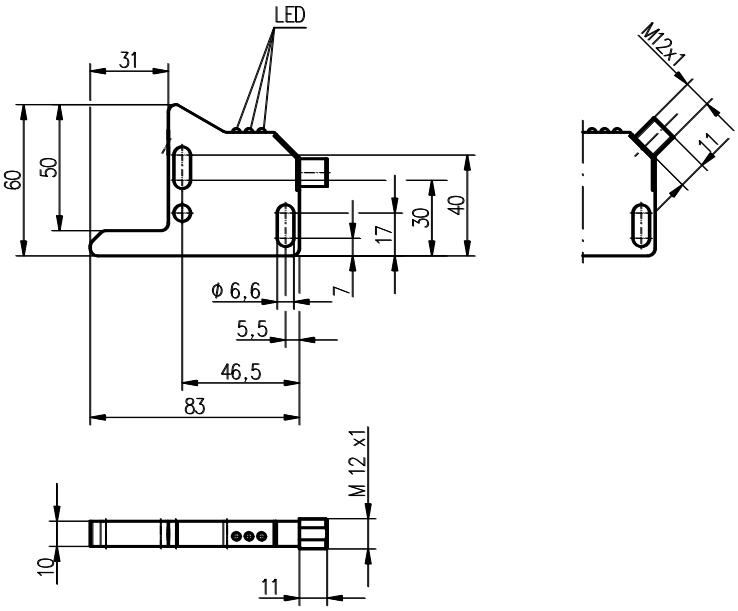
Angle light barrier



OGL 50/31 P6L-IBS/PE



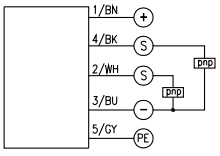
OGL 50/31 P6L-RIBS/PE



Part no.	Function	Connector
OGL 50/31 P6L-IBS/PE	PNP	5 Pin
OGL 50/31 P6L-RIBS/PE	PNP	5 Pin

Connection diagram

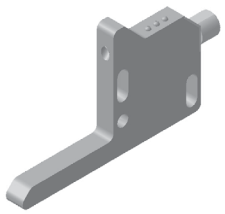
IBS/PE RIBS/PE



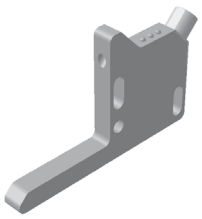
TECHNICAL INFORMATION (typ.)	**+20°C, 24V DC**
Design	Angle
Emitted	light Red, 660 nm, clocked
Service voltage	10 ... 35 V DC
Internal power consumption	< 45 mA
Sensitivity adjustment	no setting elements
Switching output	pnp, 200 mA, NO
Contamination output	pnp, 200 mA
Operating frequency	200 Hz
Ambient temperature	-10 ... +60 °C
Ambient light immunity	50 kLx
Protection class	IP 67
Casing material	die-cast zinc
Connection	Connector, M12, 5-poled

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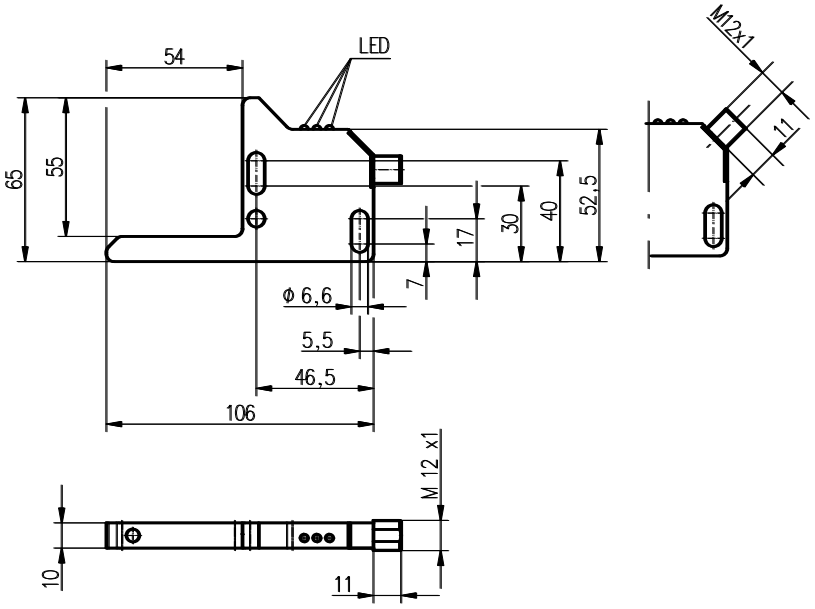
Angle light barrier



OGL 55/54-0 P2K-IBS

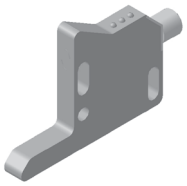


OGL 55/54-0 P2K-RIBS

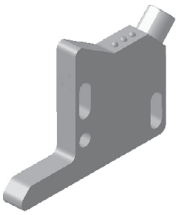


Part no.	Function	Connector
OGL 55/54-0 P2K-IBS	PNP	4 Pin
OGL 55/54-0 P2K-RIBS	PNP	5 Pin

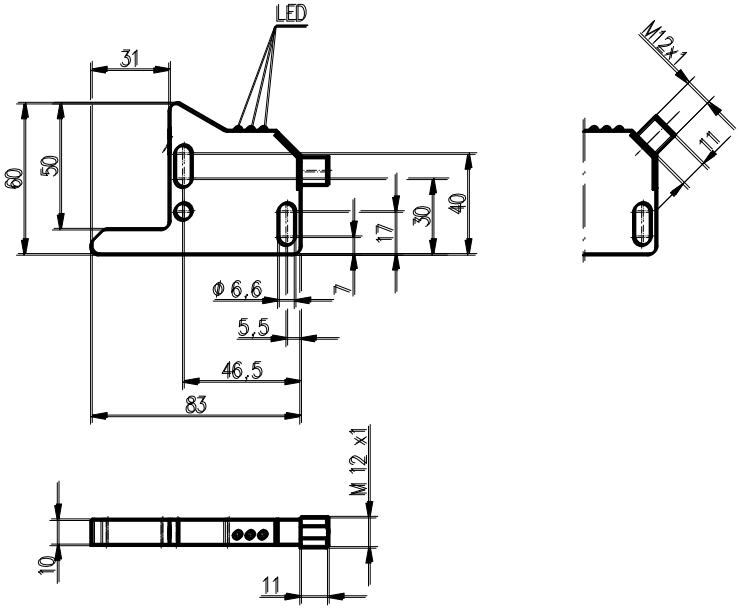
Angle light barrier



OGL 50/31-0 P2K-IBS

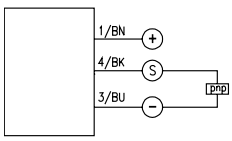


OGL 50/31- P2K-RIBS



Part no.	Function	Connector
OGL 50/31-0 P2K-IBS	PNP	4 Pin
OGL 50/31-0 P2K-RIBS	PNP	5 Pin

Connection diagram
IBS / RIBS

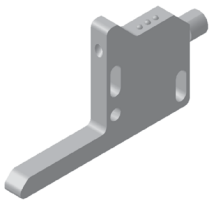


TECHNICAL INFORMATION (typ.)	**+20°C, 24V DC**
Design	Angle
Emitted	light Infrared
Service voltage	10 ... 35 V DC
Internal power consumption	< 20 mA
Sensitivity adjustment	no setting elements
Switching output	pnp, 200 mA, NO
Operating frequency	50 Hz
Ambient temperature	-10 … +60 °C
Ambient light immunity	50 kLx
Protection class	IP 67
Casing material	die-cast zinc
Connection	Connector, M12, 4-poled

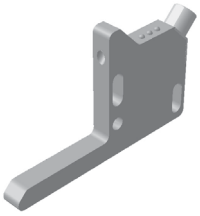
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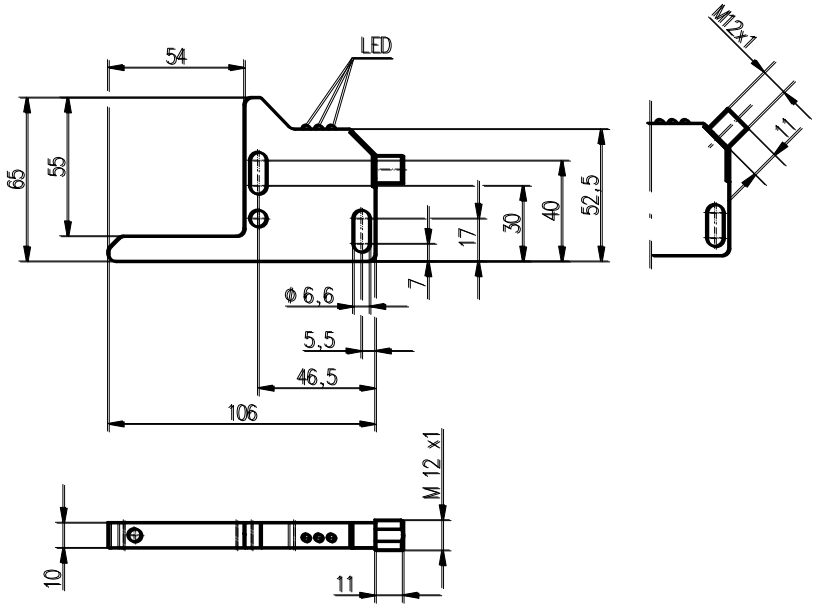
Angle light barrier



OGL 55/54-0 P6L-IBS

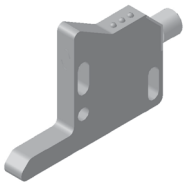


OGL 55/54-0 P6L-RIBS/PE

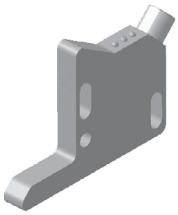


Part no.	Function	Connector
OGL 55/54-0 P6L-IBS	PNP	4 Pin
OGL 55/54-0 P6L-RIBS/PE	PNP	5 Pin

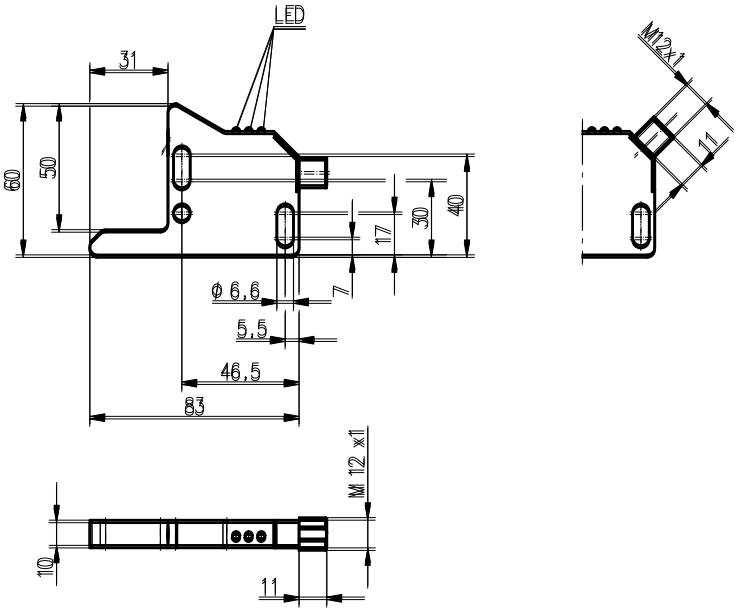
Angle light barrier



OGL 50/31-0 P6L-IBS



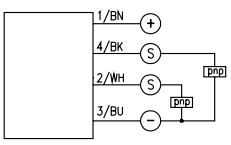
OGL 50/31-0 P6L-RIBS/PE



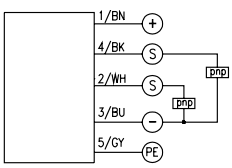
Part n o.	Function	Connector
OGL 50/31-0 P6L-IBS	PNP	4 Pin
OGL 50/31-0 P6L-RIBS/PE	PNP	5 Pin

TECHNICAL INFORMATION (typ.)	**+20°C, 24V DC**
Design	Angle
Emitted	light Infrared, 870 nm, clocked
Service voltage	10 ... 35 V DC
Internal power consumption	< 45 mA
Sensitivity adjustment	no setting elements
Switching output	pnp, 200 mA, NO
Contamination output	pnp, 200 mA
Operating frequency	100 Hz
Ambient temperature	-10 … +60 °C
Ambient light immunity	50 kLx
Protection class	IP 67
Casing material	die-cast zinc
Connection	Connector, M12, 5-poled

Connection diagram
IBS / RIBS

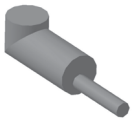


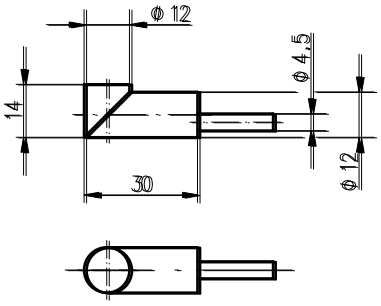
Connection diagram
RIBS/PE



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Inductive Proximity switch





Part no.
LD12.2103.4

Elekctrical Data

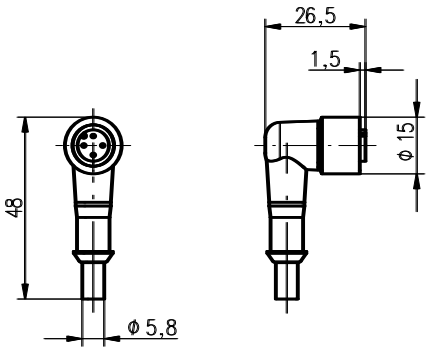
Voltage range	10...30 V DC
Nominal woltage	24 VDC
Ripple voltage	±10 %
Individual inpunt current NC active / passive	< 1 mA / < 15 mA
Individual inpunt current NO active / passive	< 15 mA / < 1 mA
Residual stress	< 2VDC @ 200 mA
Repitition rate of sensing	≤ 1000 Hz
Repitition rate of sensing, specially types	≤ 800 Hz
Output voltage rise	> 2 V/us
Operating time	100%s
Polarity protection	included

Environmentally Characteristics

Switching hystersis	typ. 0,1mm
Reproduceybility	≤ 0,01 mm
Temperature drift	≤ 4 µm/°C
Temperature range	-30°C bis +70°C
Protection	IP67, IEC 60529
Cable length	2m

Connector with cable



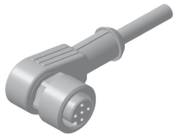


Part no.
BKS-S 20-4-03

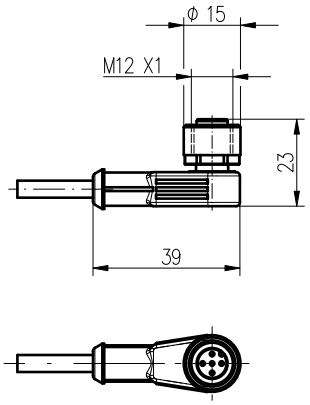
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Angel plug



Part no.
7000-12381-2230500



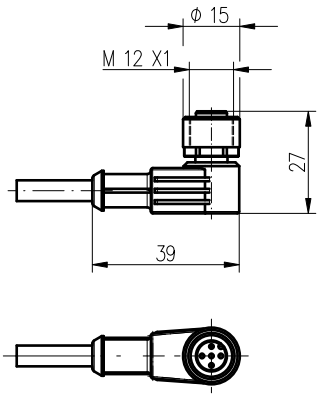
Technische Daten

Protection	IP67 when plugged and screwed down (EN 60529)
Operating voltage	max. 24 V DC ±25 %
Operating current per contact	max. 4 A
Locking of ports	Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing
Temperature range	-30...+80 °C, depending on cable quality

Angel plug



Part no.
7000-12341-8621000



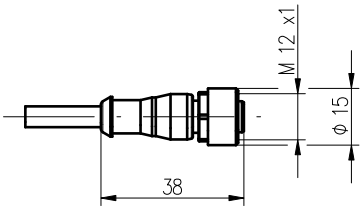
Technische Daten

Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Operating voltage	max. 250 V AC/DC
Operating current per contact	max. 4 A
Locking of ports	Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing
Temperature range	-25...+85 °C, depending on cable quality

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Connector





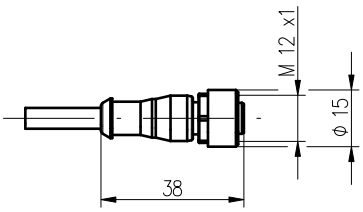
Part no.
7000-12221-2340500

Technical data

Operating voltage	max. 250 V AC/DC
Operating current per contact	max. 4 A
Locking of ports	Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing
Protection	IP67 inserted and tightened (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

Connector





Part no.
7000-12221-2240500

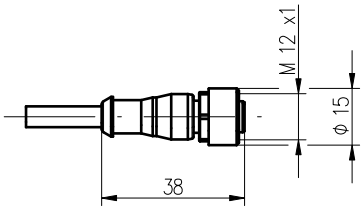
Technical data

Operating voltage	max. 250 V AC/DC
Operating current per contact	max. 4 A
Locking of ports	Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing
Protection	IP67 inserted and tightened (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

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Connector





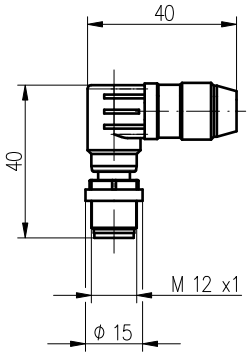
Part no.
7000-12221-2240500

Technical data

Operating voltage	24 v DC ±25%
Operating current per contact	max. 4 A
Locking of ports	Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing
Protection	IP67 inserted and tightened (EN 60529)
Temperature range	-5...+80 °C

Connector





Part no.
7000-12561-0000000

Technical data

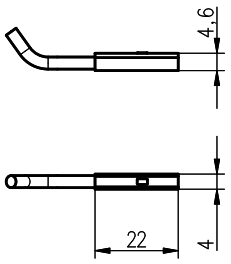
Operating voltage max.	32 V AC/DC
Operating current per contact max.	4 A
Connection cross section	0.25...0.5 mm² (conductor diameter min. 0.1 mm)
Sealing range (cable diameter)	4...5.1 mm
Wire isolation	VC, PP, TPE
Outer wire diameter	1.2...1.6 mm
Locking of ports	Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C

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Solid state switch



0.036 kg



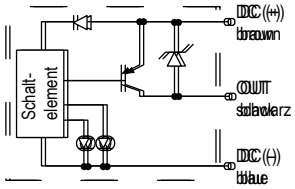
Part no.
D-M9PAL

Technical data

Model	3-wire, PNP
Lead Wire Length	3 m
Maximum ambient temperature	60 °C
Minimum ambient temperature	-10 °C
General power supply	4.5 to 28 V DC
Conform to the European RoHS Directive	conform
Approvals	CE, UL

Connection diagram

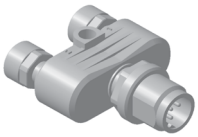
PNP

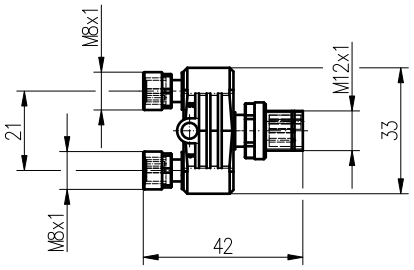


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Connector





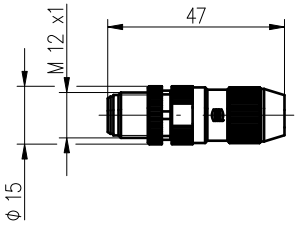
Part no.
7000-41201-0000000

Technical data

Operating voltage	max. 60 V AC/DC
Operating current per contact	max. 4 A
Locking of ports	Screw thread M8/M12 × 1 mm (recommended torque 0.4/0.6 Nm), self-securing
Protection	IP67 inserted and tightened (EN 60529)
Temperature range	-25...+85 °C

Connector





Part no.
7000-12491-0000000

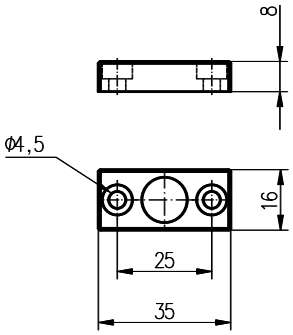
Technical data

Operating voltage	max. 32 V AC/DC
Operating current per contact	max. 4 A
Connection cross section	0.14...0.34 mm² (conductor diameter min. 0.1 mm)
Sealing range (cable diameter)	2.9...5.1 mm
Wire isolation	PVC, PP, TPE
Outer wire diameter	1.0...1.6 mm
Locking of ports	Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing
Protection	IP65 and IP67 inserted and tightened (EN 60529)
Temperature range	-25...+85 °C

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Data carrier

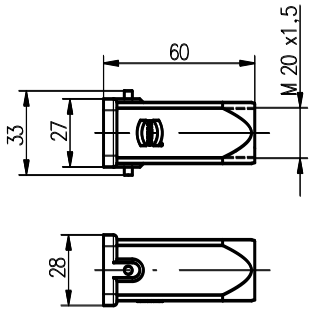




Part no.
CIS3-P35X16

Hood

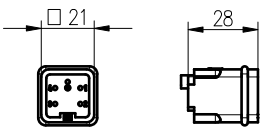




Part no.
19 20 003 1440

Male insert



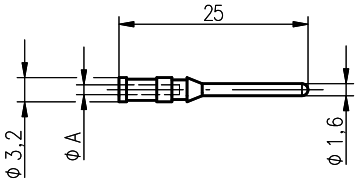


Part no.
09 20 004 2611

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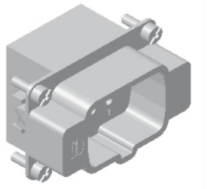
Crimp contact

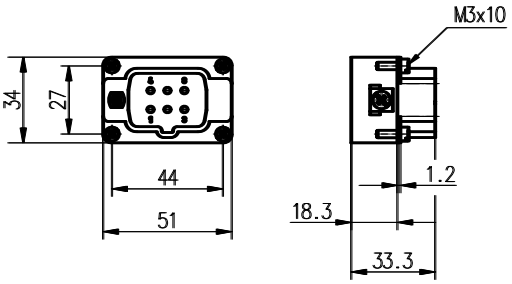




Part no.	ØA
09 15 000 6102	1.45
09 15 000 6105	1.30

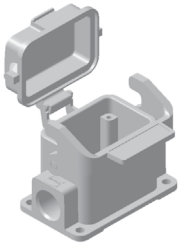
Male insert

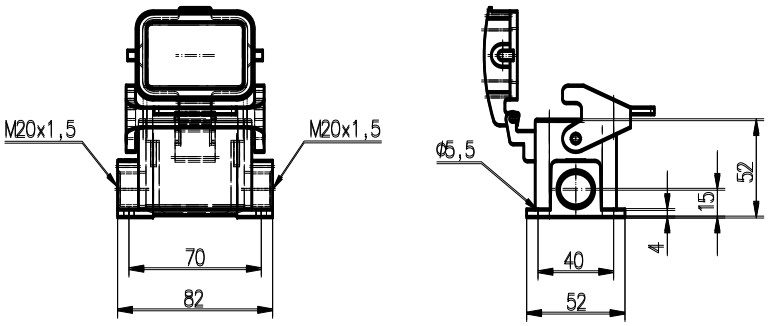




Part no.
09 33 006 2602

Housing surface mounting

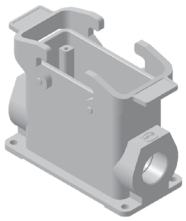


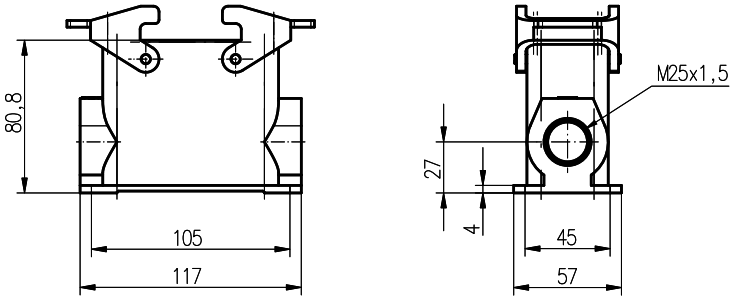


Part no.
19 30 006 1295

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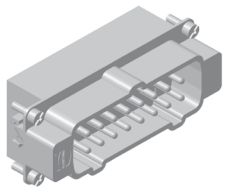
Housing surface mounting

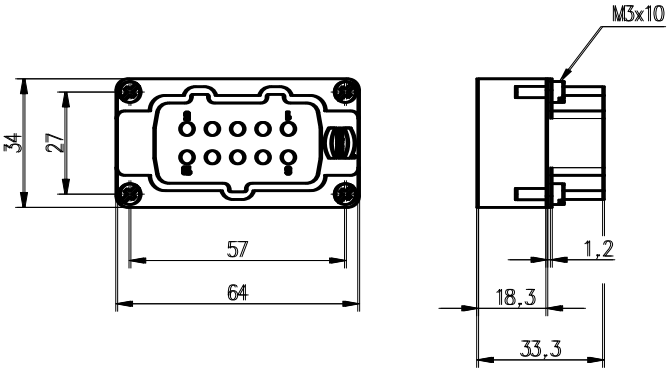




Part no.
19 30 016 0271

Male insert



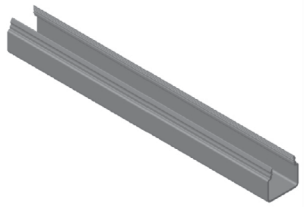


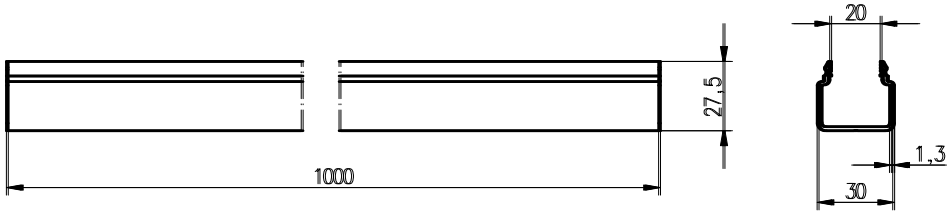
Part no.
09 33 006 2601

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Cable channel

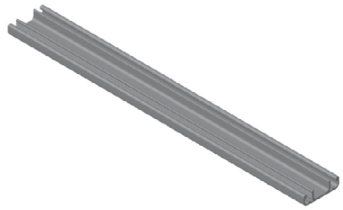


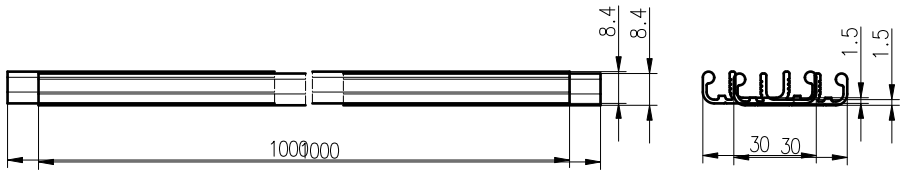


0.30 kg
Material: Aluminium

Part no.
0.0.451.44

Cover profile



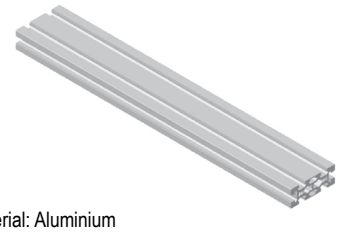


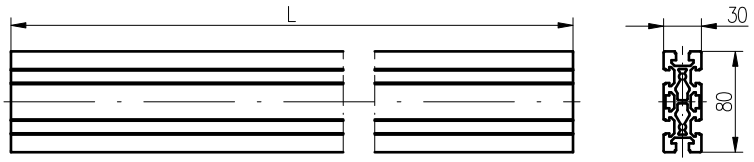
0.23 kg
Material: Aluminium

Part no.
7.0.002.85

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Carrier rail (Rose & Krieger)

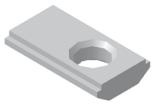


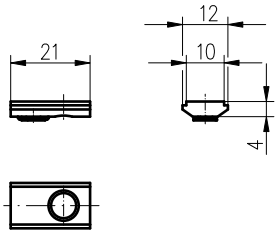


Material: Aluminium

Part no.	L	(kg)
F-30x80-1400	1400	4.35
F-30x80-5000	5000	15.5

Sliding block



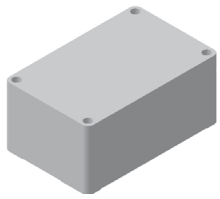


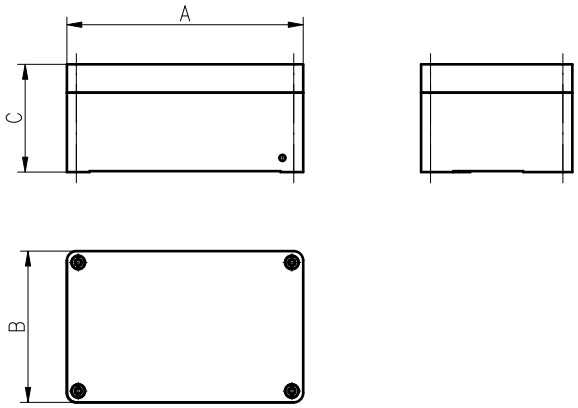
0.006 kg
Material: Steel

Part no.
4006213

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Enclosures



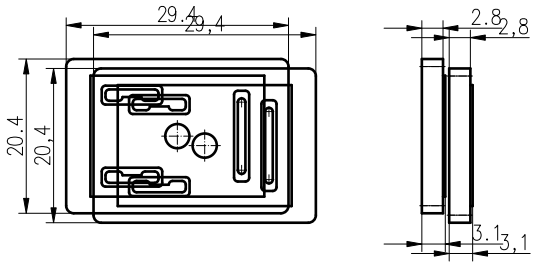


Material: Aluminium

Part no.	A	B	C	(kg)
9529140000	100	70	45	0.310
9529150000	125	80	57	0.466

Illuminating seal





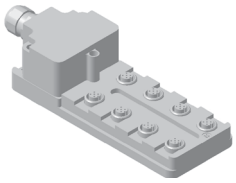
Part no.
MF-LD-12-24-DC

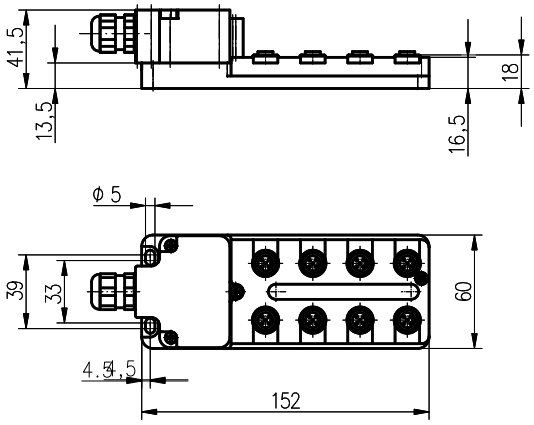
Technical data

Switching position display	LED
Operating voltage range	DC12 ... 24 V
Rated out put of illuminating seal	0,05 W
Protection class	IP65
Ambient temperature	-25 ... 85 °C
Weight	1,6 g
Protective earth conductor connection	yes
Housing material	TPE-U(PU

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Sensor-Actuator-Interface





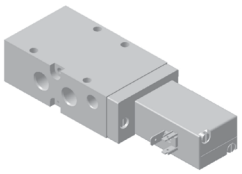
Part no.	(kg)
SAI-8-MH-5P M12 ZF III	0.60

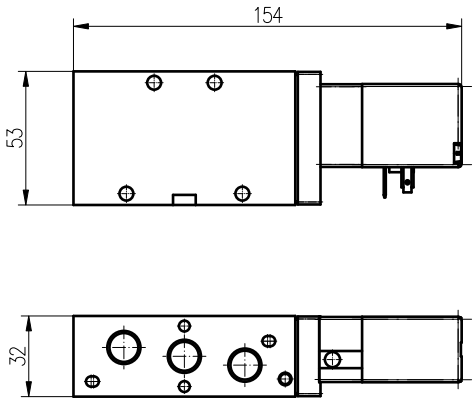
General data			
Connection type PE	Tension clamp connection	Number of contact sockets	8
Fire behaviour	V-0	Contact tube diameter	M12
No. of poles	5	Storage space	gross
Plugging cycles	≤ 50	Pollution severity	3
Cable gland	M 20	Distributor outlet	Hood version with M20 outlet
Insulation resistance	109 Ω	Rated voltage , max.	30 V
Rated voltage , min.	10 V	Electrical isolation available	Yes
Test voltage	1 kV	Current per signal	2 A
Total current	10 A	Max. current-carrying capacity per slot	4 A
Housing main material	Pocan (base module), Zinc diecast (hood)	Housing colour	Silver
Screw socket	CuZn, nickel-plated	Hood sealing material	Foamed PUR
Contact material	CuZn	Contact surface	Gold-plated
Contact carrier material	PBT (UL 94 V0)	Clamping range, rated connection,	max. 1.5 mm²
Clamping range, rated connection,	min. 0.08 mm²	Conductor O.D.	10 - 14mm
Conductor O.D., max.	14 mm	Conductor O.D., min.	10 mm
LED initiator	Yes	LED	Yes
LED colour for indicating operation	green	LED colour for I/O function	yellow

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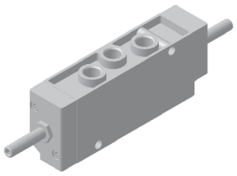
Variables

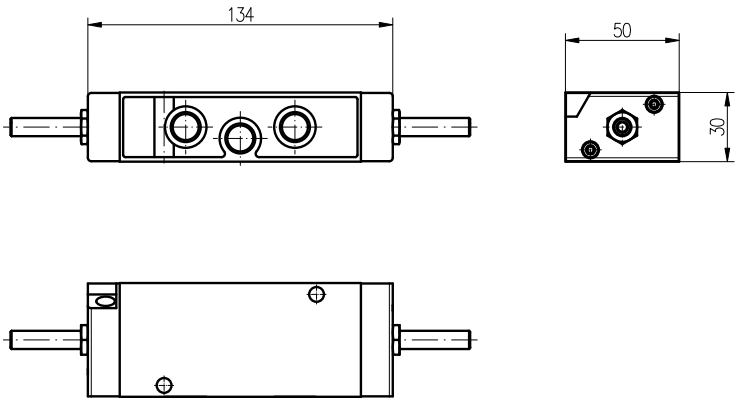




Part no.
MVH-5-1/4-B

Variables

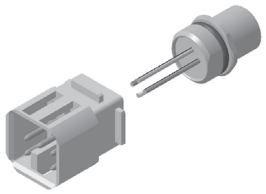


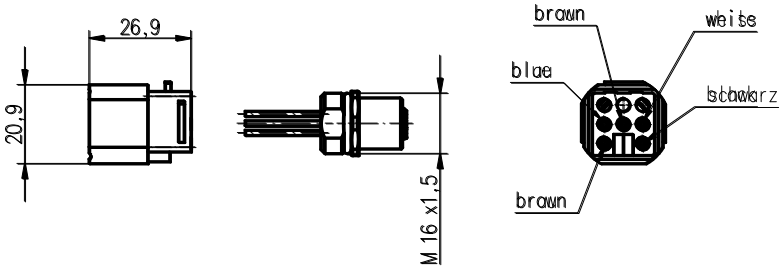


Part no.
JMFH-5-1/4

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Cable harness





0.018 kg
Material: Aluminium

Part no.
CBC-25-EL5

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Carbon fibre gripper modules

Picture	Designation	Page
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	Tooling carrier with tapered carbon tube	486
	Tooling carrier with tapered carbon tube	487
	Tooling carrier with tapered carbon tube	488
	Loading and unloading beam, Carbon fibre	489
	Interpress beam for 4 tooling series 40, Carbon	490
	Interpress beam for 4 tooling series 40, Carbon	491
	Destacking beam for multiplex tooling series 40	492
	Centering robot beam, Carbon	493
	Destacking beam for 4 tooling series 40	494
	Carbon beam telescopic bar	495

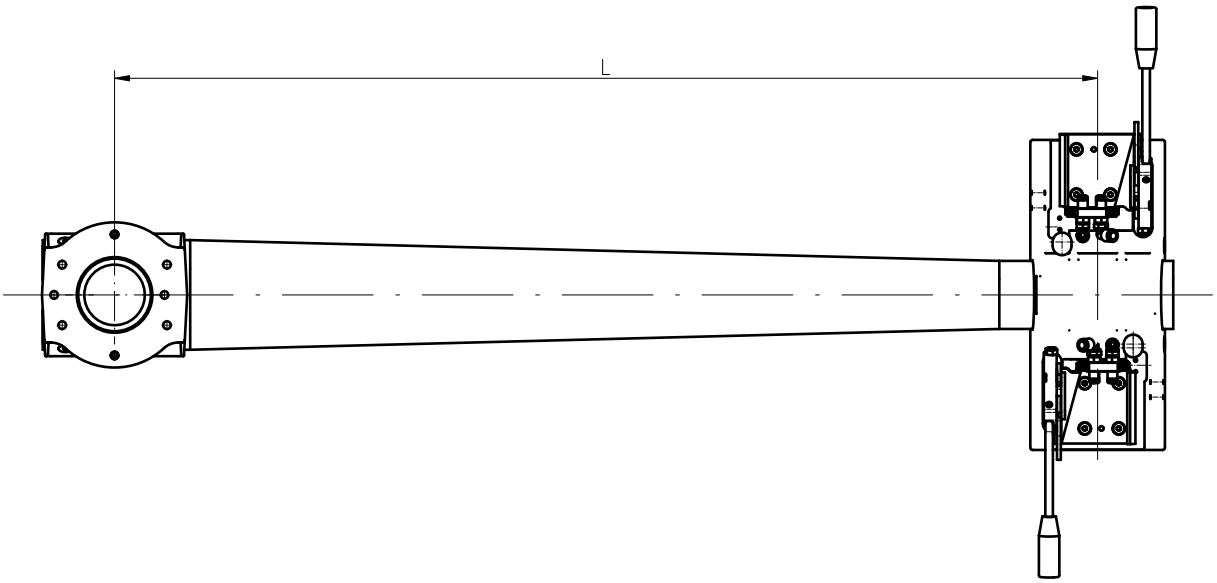
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Tooling carrier with tapered carbon tube



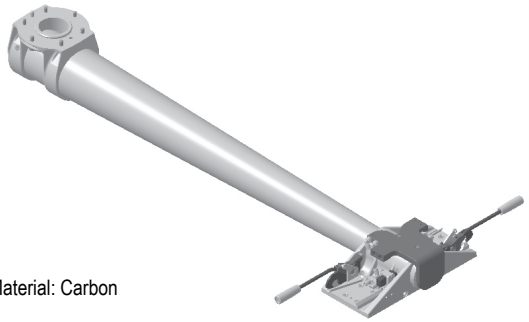
Material: Carbon



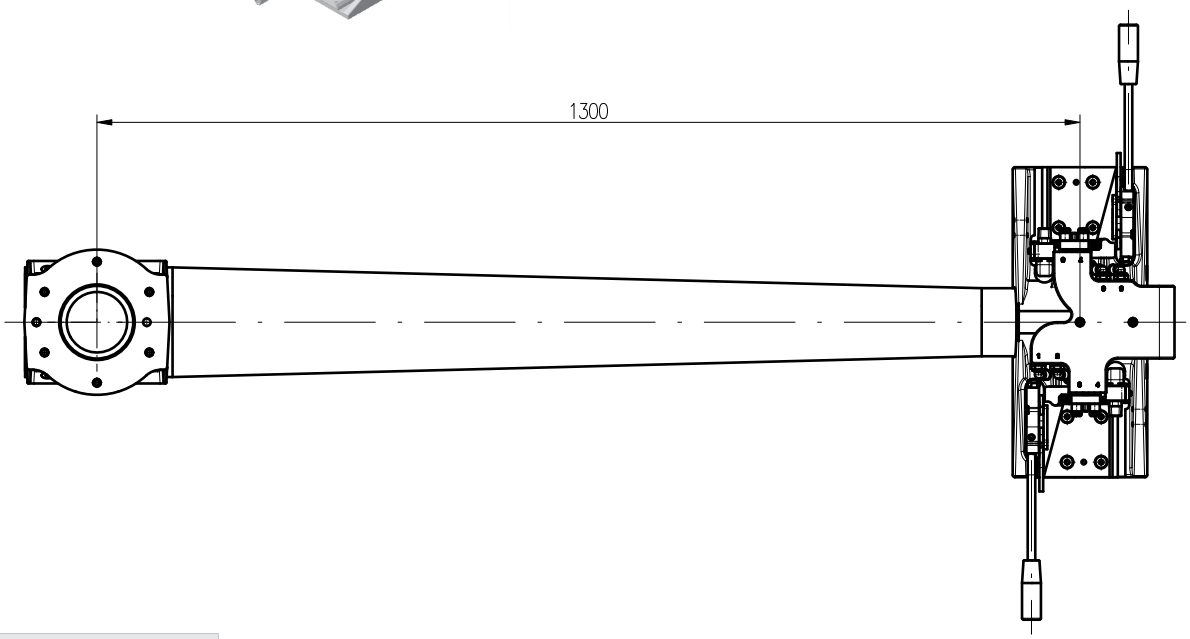
Part no.	L
GMC-TR-40-95-01-1300	1300
GMC-TR-40-95-01-1700	1700
GMC-TR-40-95-01-1900	1900

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Tooling carrier with tapered carbon tube



Material: Carbon

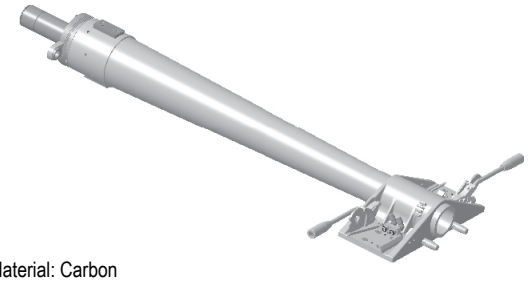


Part no.
GMC-TR-40-95-01-1300-2EL6

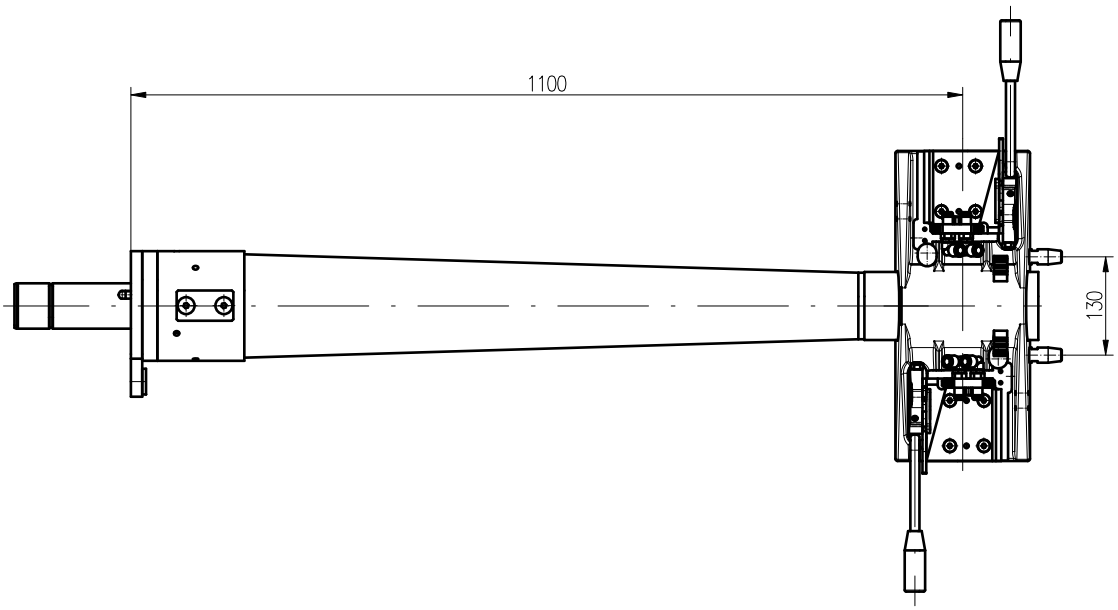
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Carbon fibre gripper modules

Tooling carrier with tapered carbon tube



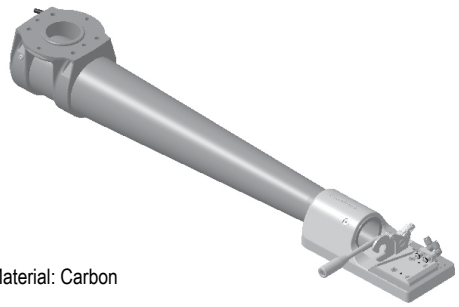
Material: Carbon



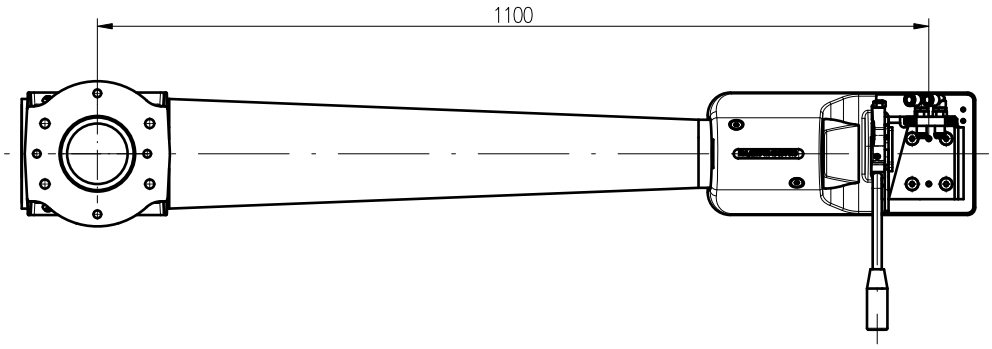
Part no.
GMC-TR-40-95-04-1100

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Tooling carrier with tapered carbon tube



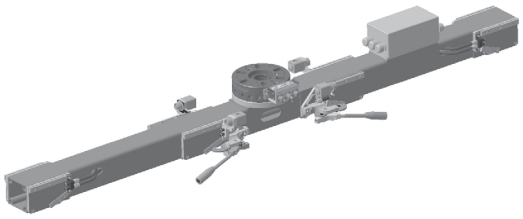
Material: Carbon



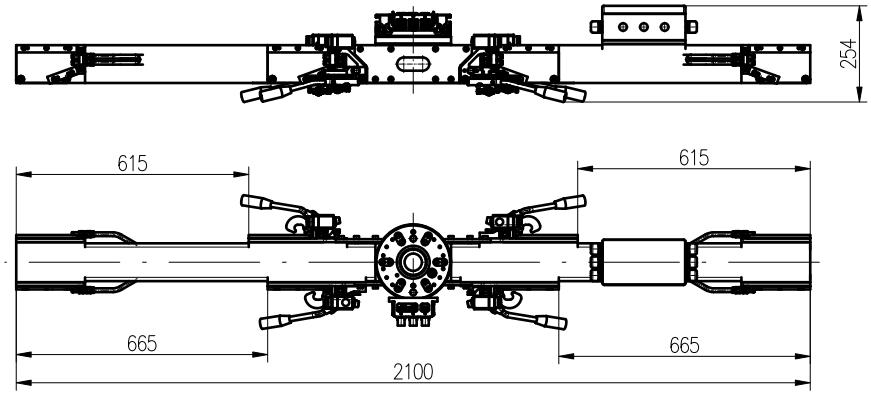
Part no.
GMC-TR-40-95-06-1100

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Loading and unloading beam, Carbon fibre



Weight up on request
Material: Carbon fibre

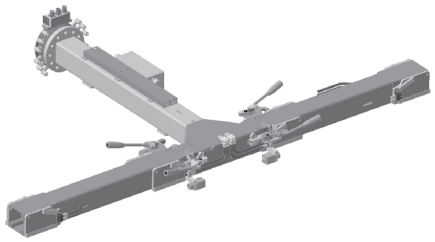


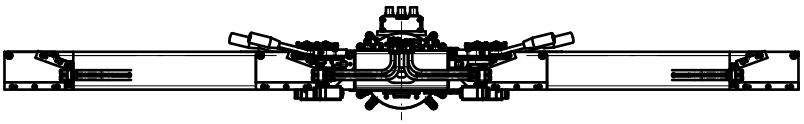
Part no.
GMC-TR-07

may be modified to customers requirements
mount pattern to be specified

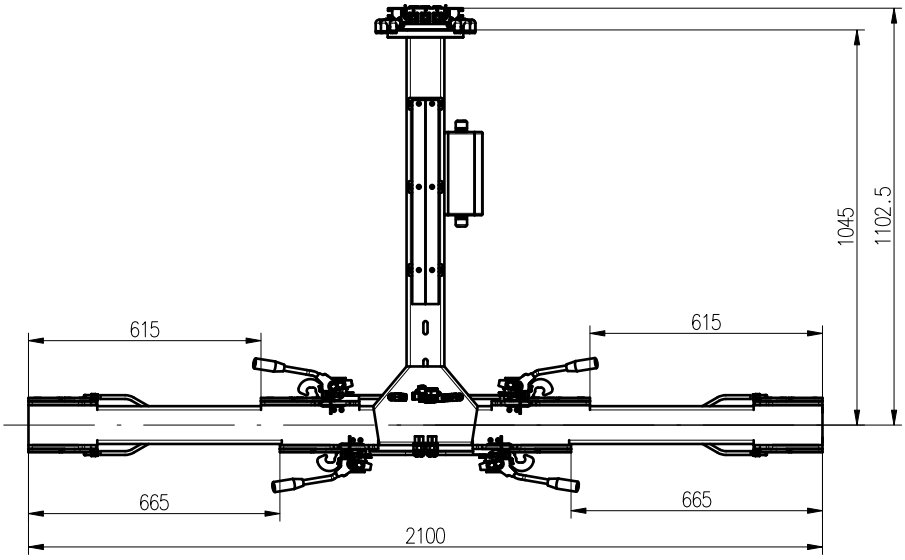
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Interpress beam for 4 tooling series 40, Carbon





Weight up on request
Material: Carbon fibre



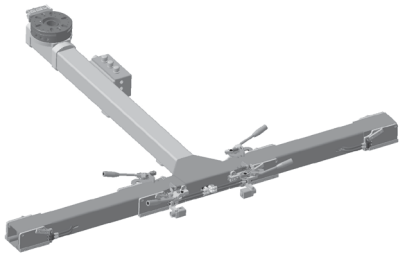
Part no.
GMC-TR-08

may be modified to customers requirements
mount pattern to be specified

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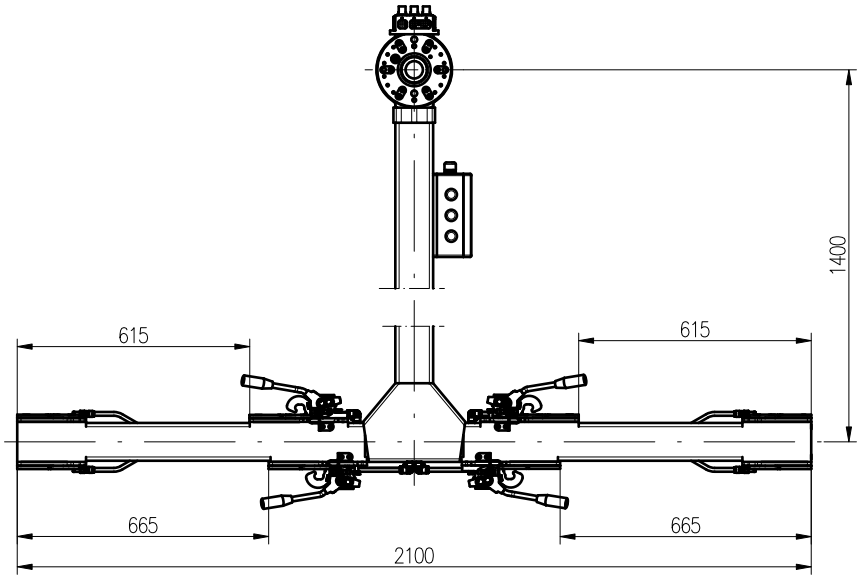
Carbon fibre gripper modules

Interpress beam for 4 tooling series 40, Carbon





Weight up on request
Material: Carbon fibre

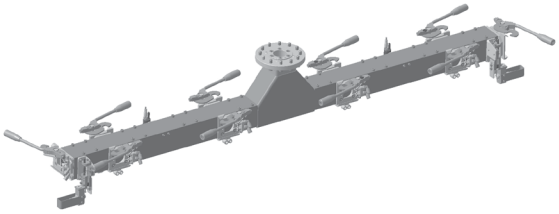


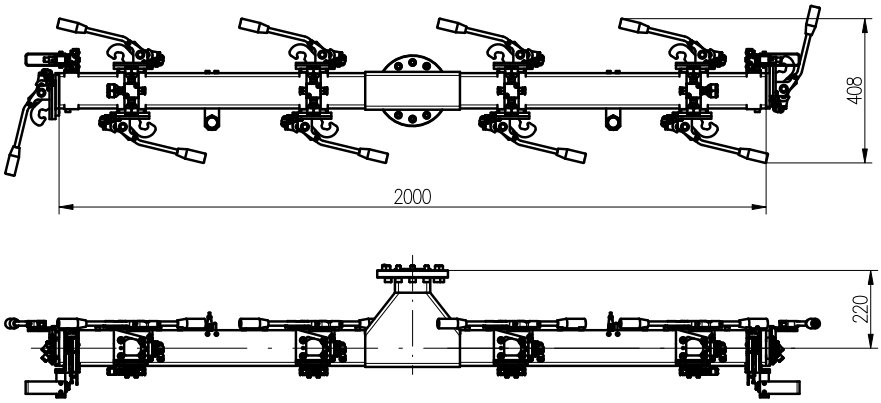
Part no.
GMC-TR-09

may be modified to customers requirements
mount pattern to be specified

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Destacking beam for multiplex tooling series 40





Weight up on request
Material: Carbon fibre

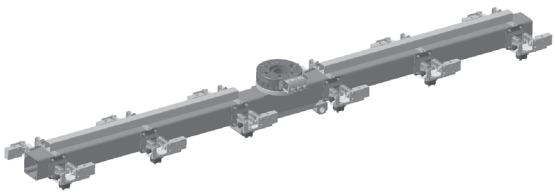
Part no.
GMC-TR-10

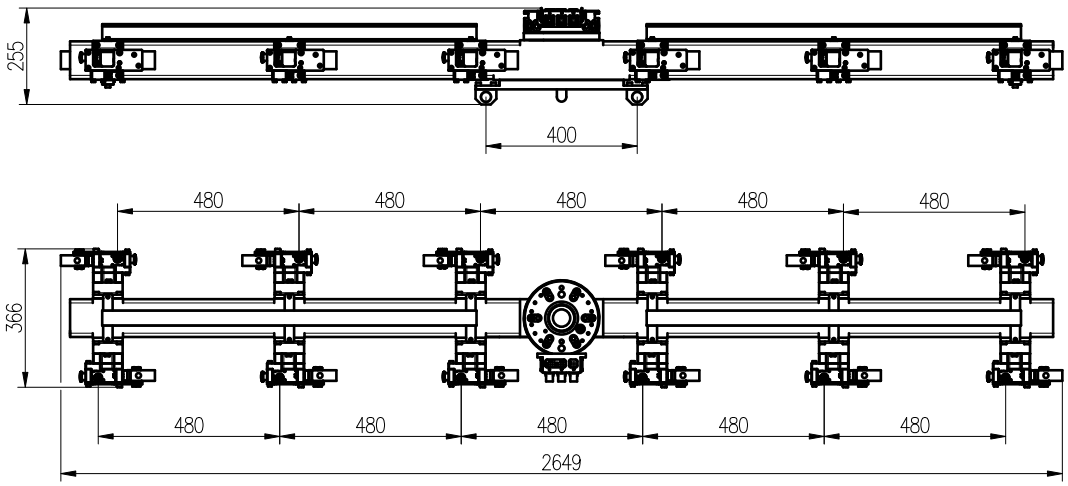
may be modified to customers requirements
mount pattern to be specified

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Centering robot beam, Carbon





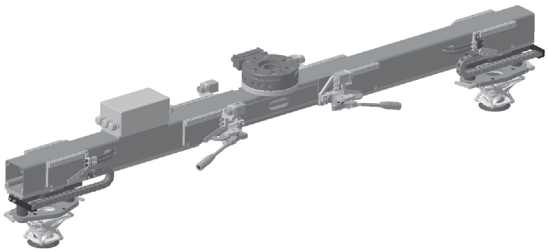
Weight up on request
Material: Carbon fibre

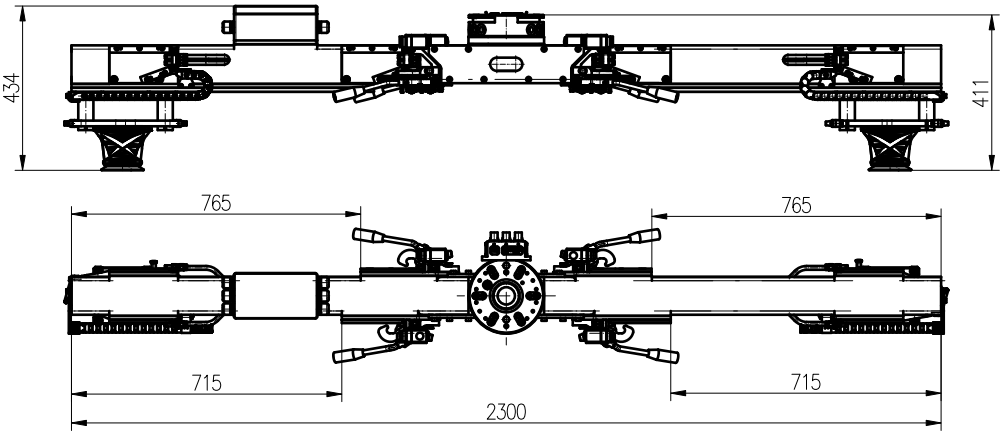
Part no.
GMC-TR-13

may be modified to customers requirements
mount pattern to be specified

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Destacking beam for 4 tooling series 40





Weight up on request
Material: Carbon fibre

Part no.
GMC-TR-14

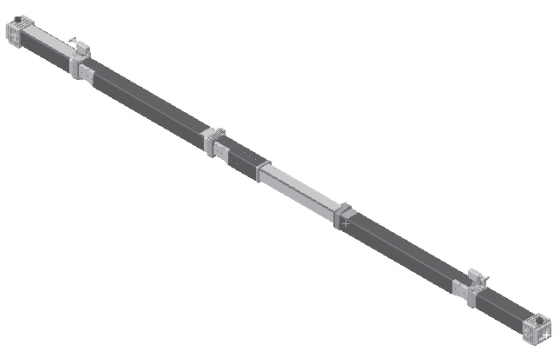
may be modified to customers requirements
mount pattern to be specified

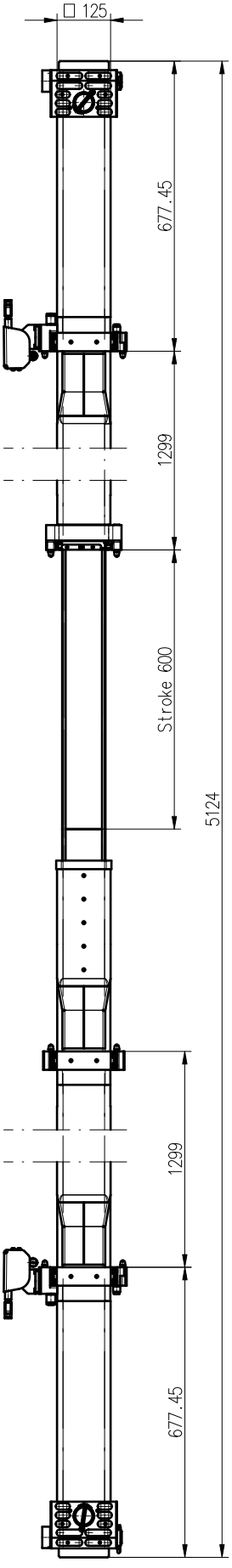
Subject to modification
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Carbon fibre gripper modules

Carbon beam telescopic bar





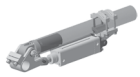
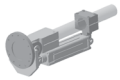
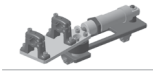
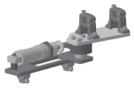
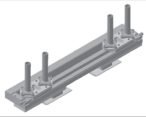
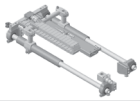
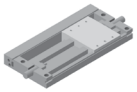
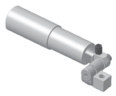
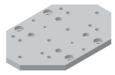
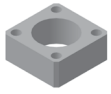
Weight up on request
Material: Carbon fibre

Part no.
GMC-GRS-125-600-5150

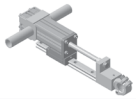
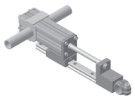
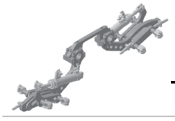
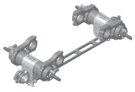
may be modified to customers requirements
mount pattern to be specified

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Function and motion elements

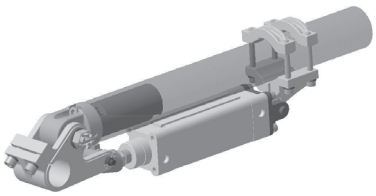
Picture	Designation	Page
	45°/90° Wrist rotate unit	499
	90° Wrist rotate unit	499
	45° / 90° axial rotate unit	500
	Tilt unit, left	501
	Tilt unit, right	501
	Shift unit	502
	Shift unit	503
	Shift unit on CFK-Balken, left / right	504
	Mechanically Jointed Rodless cylinder	505
	Mechanically Jointed Rodless cylinder	505
	Rod clevis mount	506
	Tabu Room Cylinder	506
	Toolingplate	507
	Standard base	507
	Distance plate	508
	Distance plate	508

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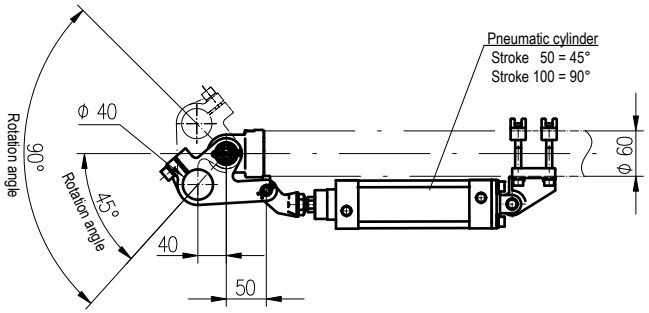
Picture	Designation	Page
	Shift unit	509
	Shift unit	509
	Tilt unit, 90 ° to the beam, double	510
	Tilt unit, 90 ° to the beam, single	510
	Compact swivel unit for twin tooling	511
	Feed gripper	512

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45°/90° Wrist rotate unit

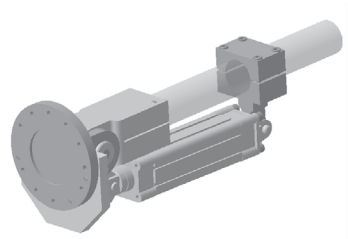


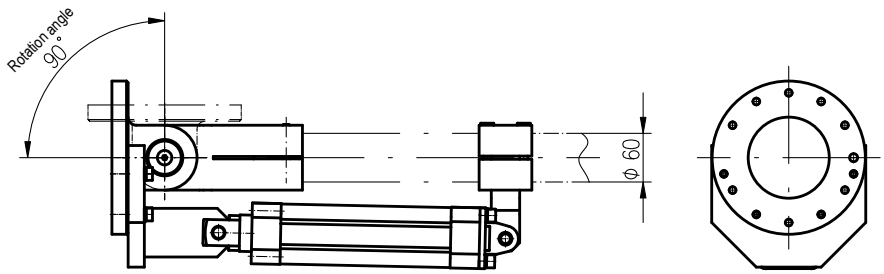
Material: Aluminium



Ordering information			e.g.: WRWM-4560-63
WRWM	-	60	-
	Max. rotation		Cylinder bore
	↓		↓
	45°		50
	90°		63

90° Wrist rotate unit



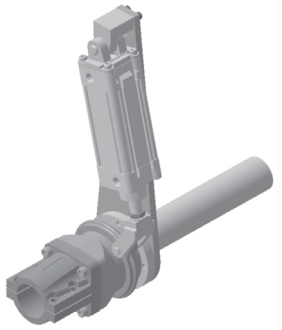


Material: Aluminium

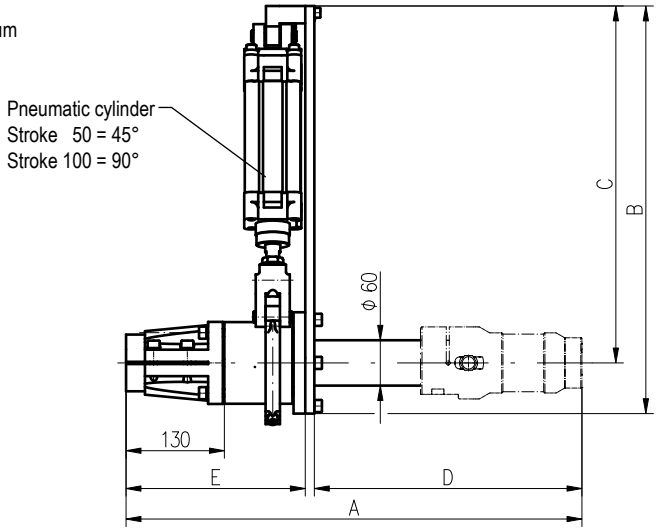
Part no.
WRWM-9060-80-FORD

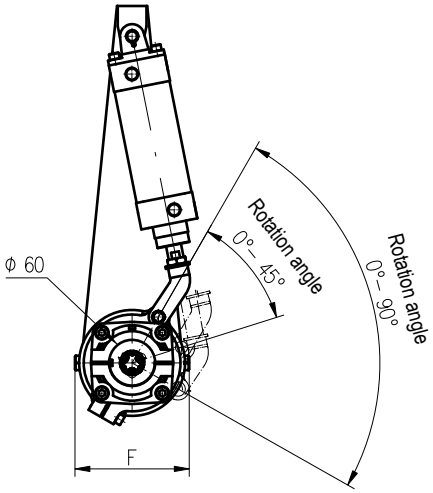
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45° / 90° axial rotate unit



Material: Aluminium





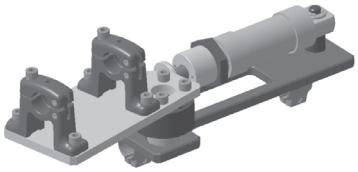
Part no.	A	B	C	D	E	F	(kg)*
BRCM-xx60-50	465	526	443.5	220	237	149.5	9.06
BRCM-xx60-63	578	553	472.0	353	212	151.1	9.51

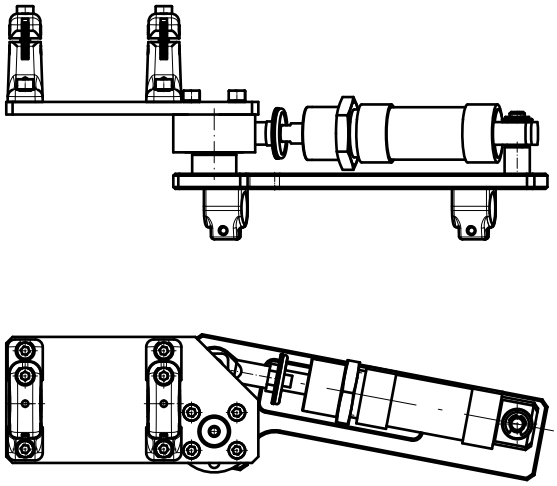
*Weight incl. 50 mm cylinder

Ordering information			e.g.: BRCM-4560-63
BRCM	-	-60	-
	max. rotation		Cylinder bore
	↓		↓
	45°		50
	90°		63

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Tilt unit, left

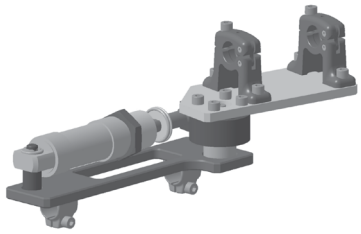


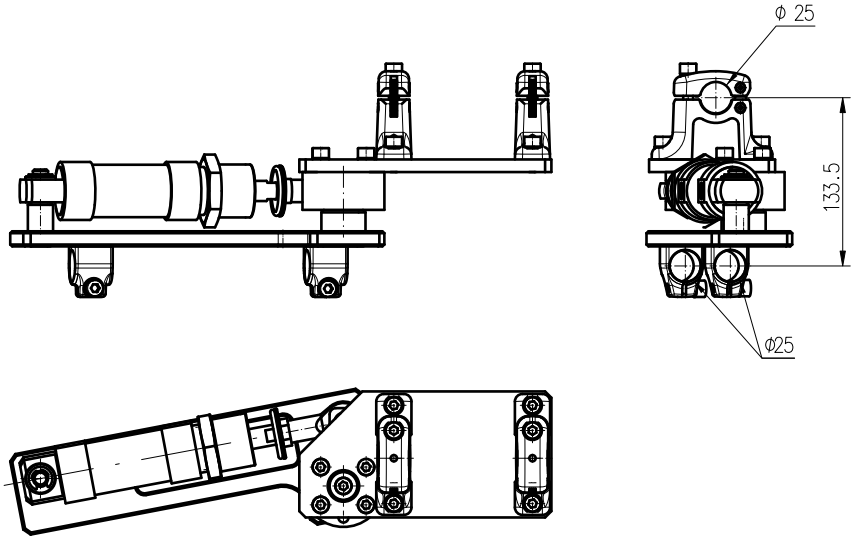


3.79 kg
Material: Aluminium

Part no.
TSE-25-01-L

Tilt unit, right



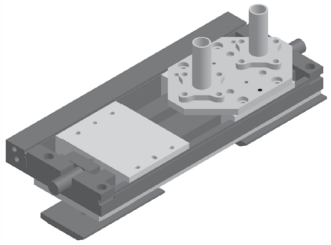


3.79 kg
Material: Aluminium

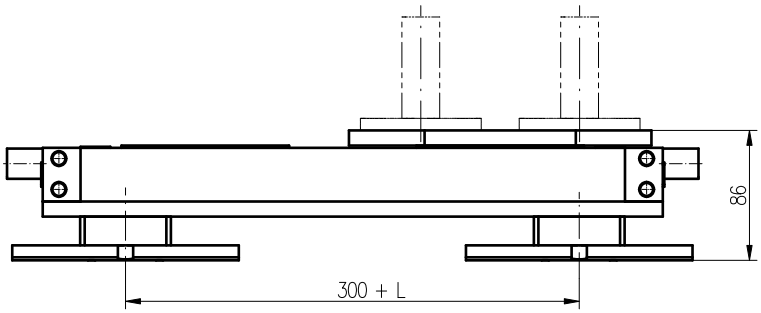
Part no.
TSE-25-01-R

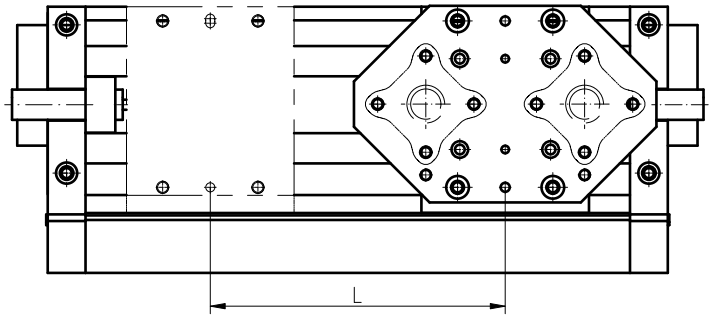
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Shift unit



Material: Aluminium

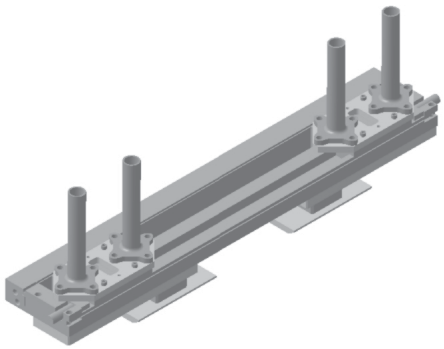




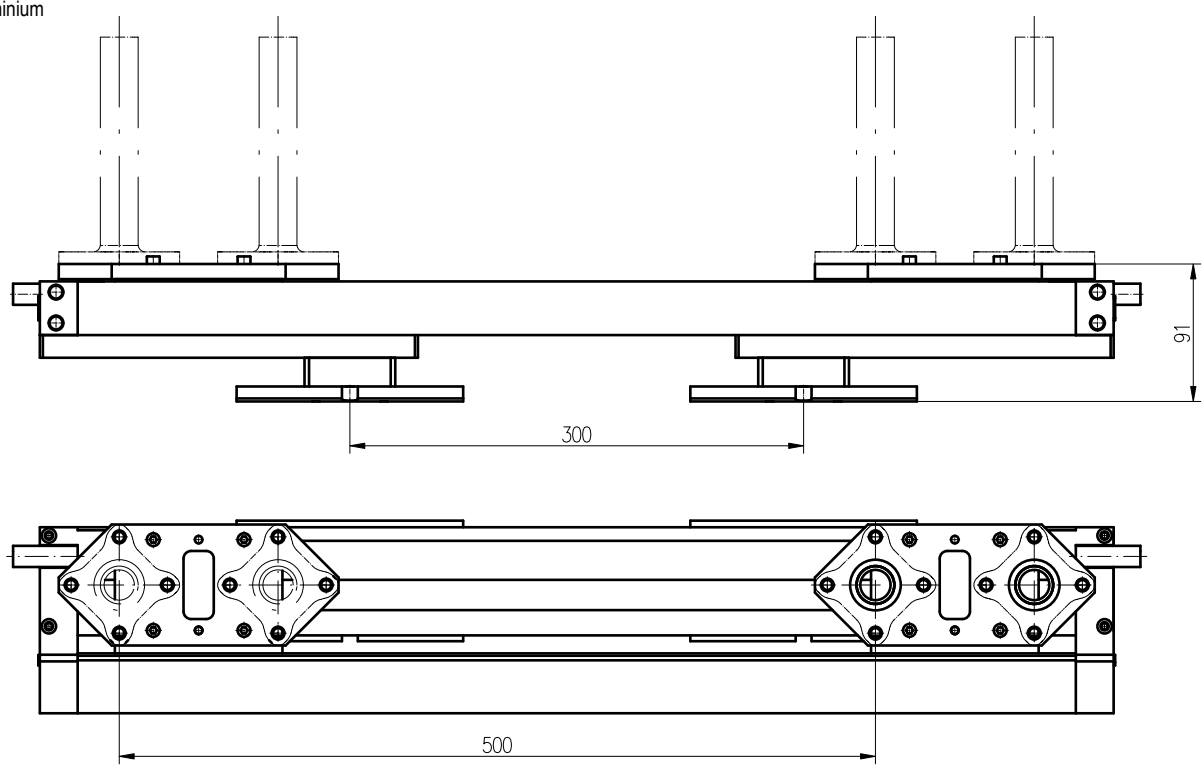
Ordering information		e.g.: VE-200-01
VE	-L	-01
	Stroke	
	↓	
	50	
	100	
	150	
	200	
	250	
	300	

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Shift unit



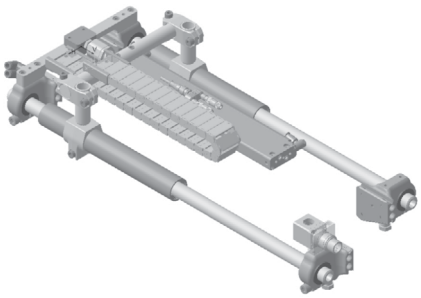
Material: Aluminium



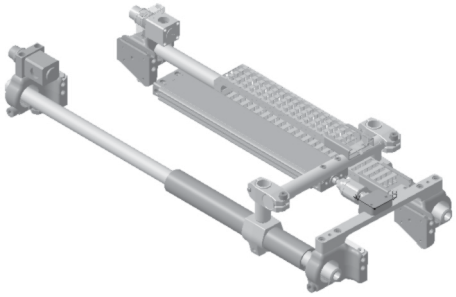
Part no.
VE-500-01

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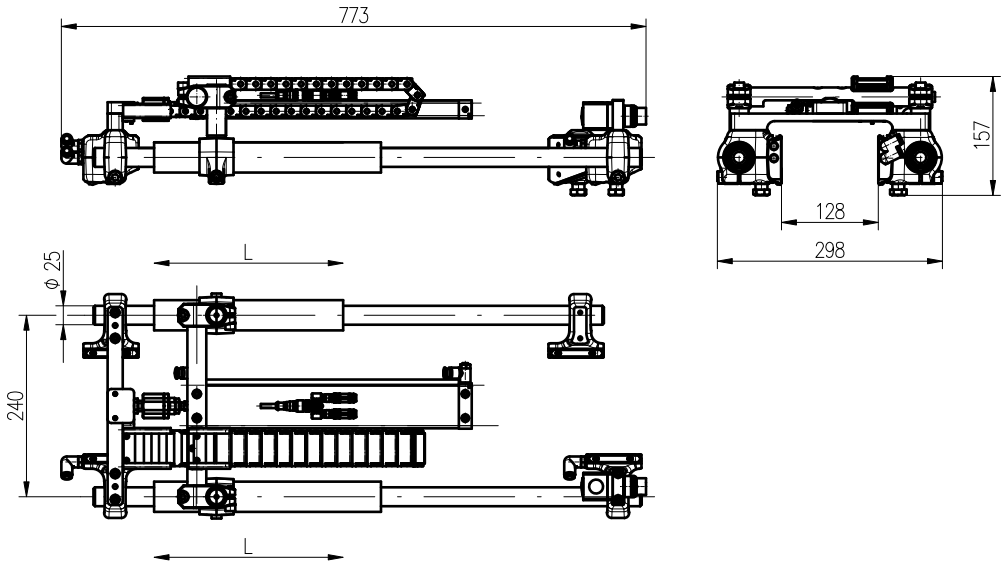
Shift unit on CFK-Balken, left / right



GMC-DT-VE-DK-300-L



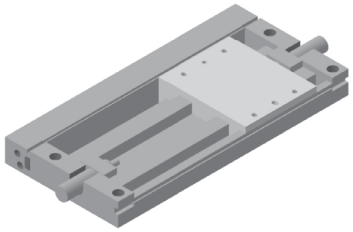
GMC-DT-VE-DK-300-R



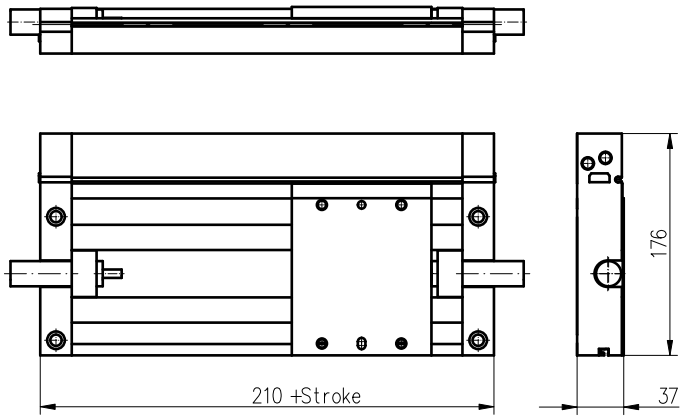
Ordering information	e.g.: GMC-DT-VE-DK-150-L	
GMC-DT-VE-DK-	-L	-
	Stroke	
	↓	↓
	50 - 300 mm	L (left)
		R (right)

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Mechanically Jointed Rodless cylinder

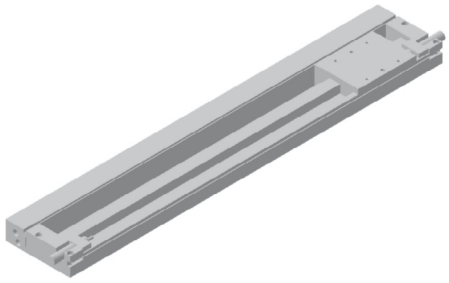


Material: Aluminium

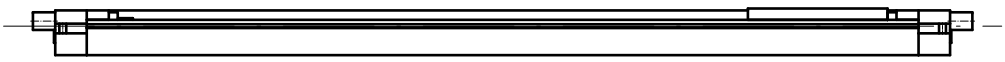


Part no.	Stroke	(kg)
MY2HT25TFG-100H	100	4.92
MY2HT25TFG-150H	150	5.53
MY2HT25TFG-200H	200	6.14
MY2HT25TFG-250H	250	6.75
MY2HT25TFG-300H	300	7.36

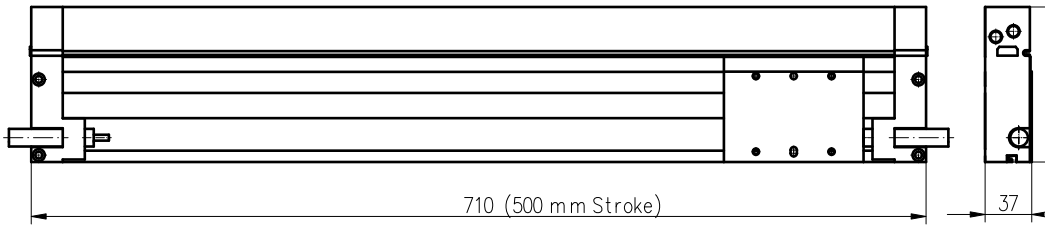
Mechanically Jointed Rodless cylinder



6.64 kg
Material: Aluminium

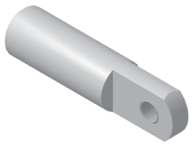


Part no.
MY2H25TFG-500H

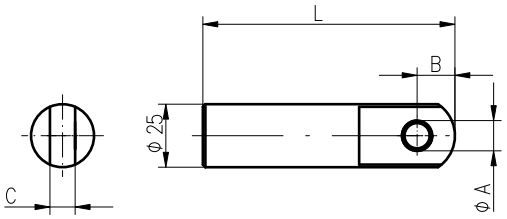


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Rod clevis mount



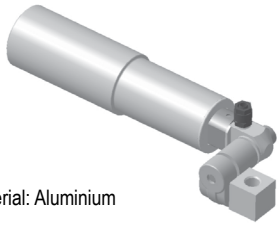
Material: Aluminium



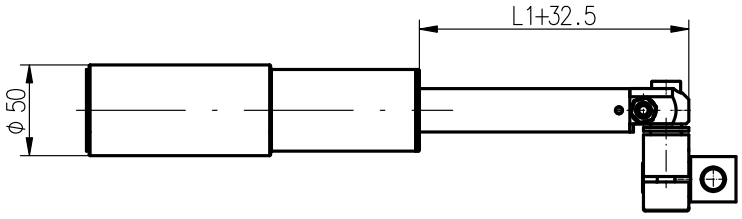
Part no.	Ø A	B	C	L
ADVU-32-10-L	10	15	10	100-500*
ADVU-50-12-L	12	15	12	100-500*
ADVU-80-16-L	16	19	16	100-500*

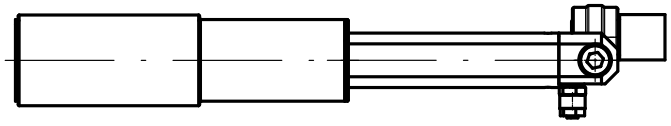
*Increments 100mm

Tabu Room Cylinder



Material: Aluminium

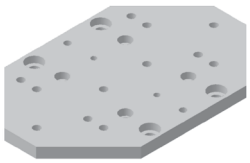




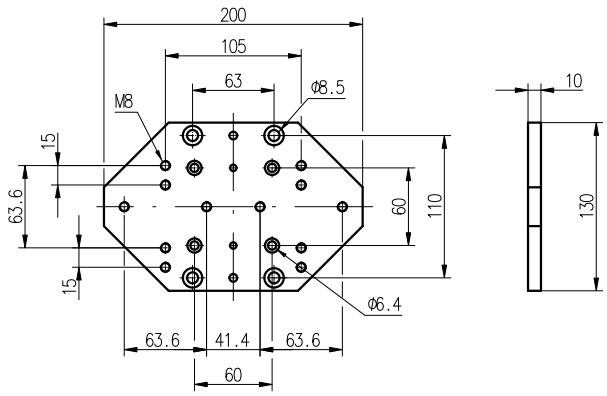
Ordering information	e.g.: GRS-PSW-VV-150
GRS-PSW-VV-	-L1
	Stroke
	↓
	100
	125
	150
	175
	200
	225
	250

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Toolingplate

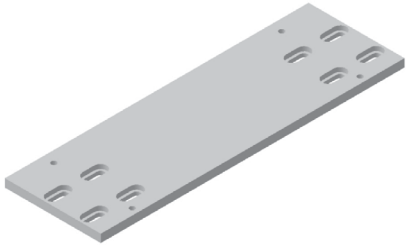


0.542 kg
Mat.: Aluminium

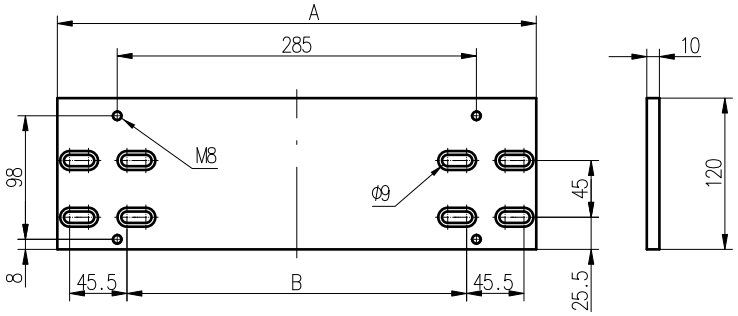


Part no.
VE-TP-P001

Standard base



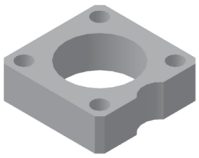
Material: Aluminium



Part no.	A	B	(kg)
VE-GP-P001	380	285	1.165
VE-GP-P002	465	435	1.421
VE-GP-P003	510	485	1.584
VE-GP-P004	410	385	1.258

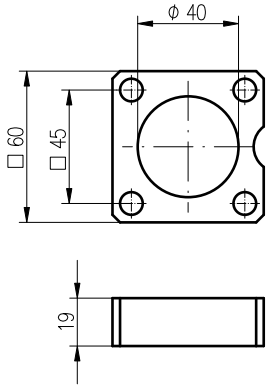
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Distance plate

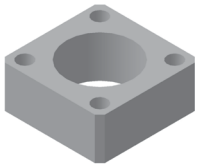


1.80 kg
Material: Aluminium

Part no.
GRS-60-60-19

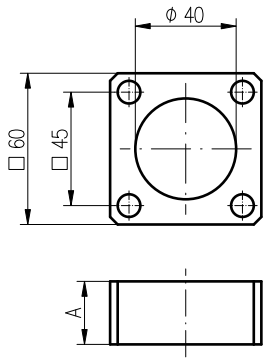


Distance plate



Material: Aluminium

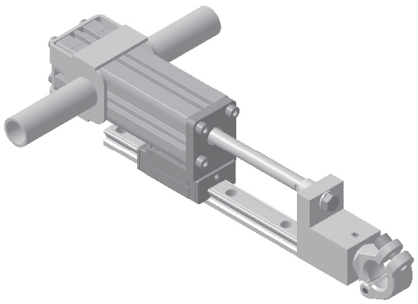
Part no.	A	(kg)
GRS-60-60-25	25	0.140
GRS-60-60-40	40	0.224



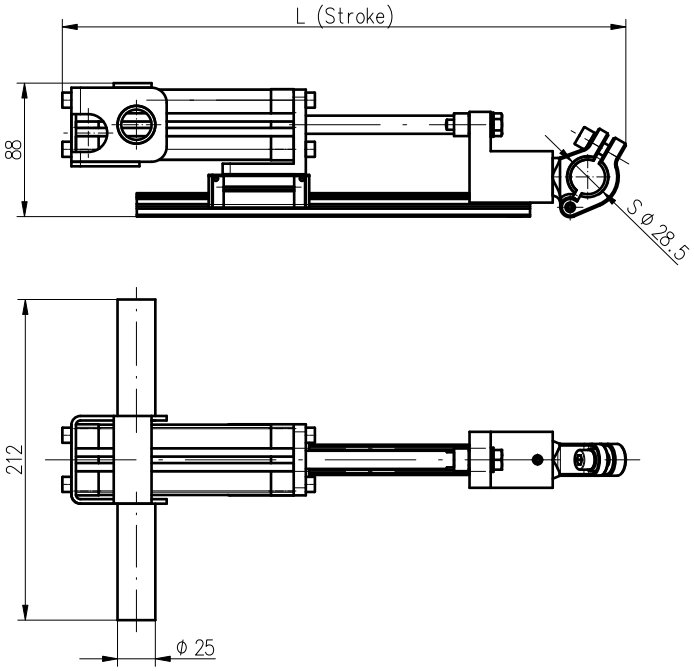
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Function and motion elements

Shift unit

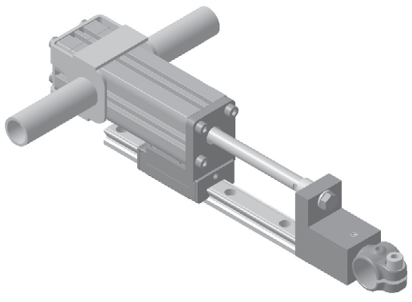


Material: Aluminium

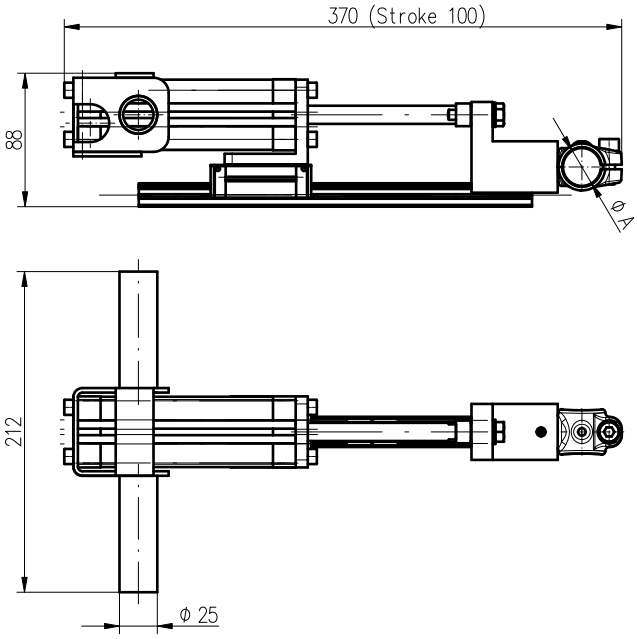


Part no.	L	Stroke	(kg)
PSB-20-VE-K28-32-50-25	266	50	1.742
PSB-20-VE-K28-32-100-25	370	100	2.239
PSB-20-VE-K28-32-150-25	470	150	2.412

Shift unit



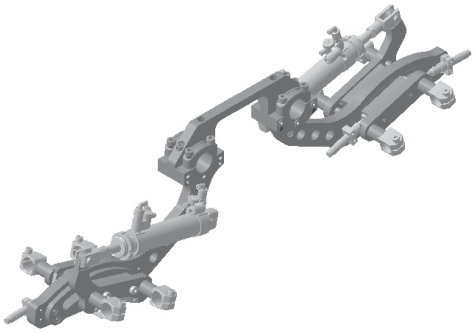
Material: Aluminium



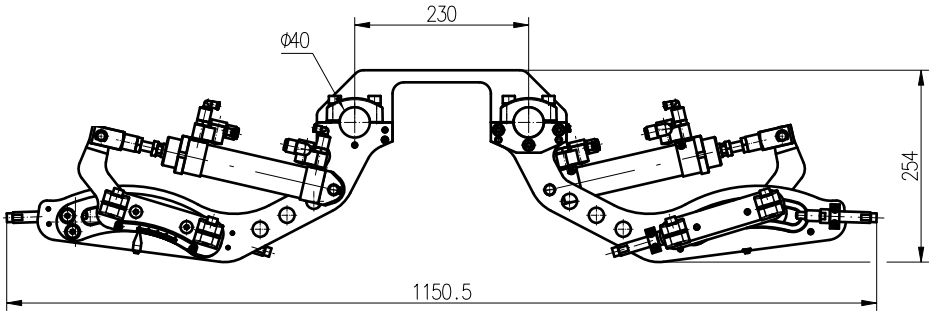
Part no.	Ø A	(kg)
PSB-20-VE-25-32-100-25	25	2.228
PSB-20-VE-30-32-100-25	30	2.285

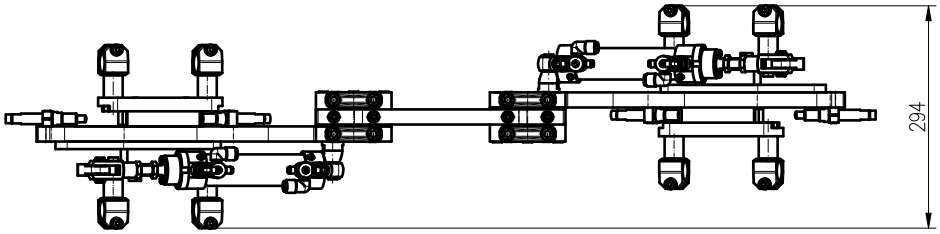
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Tilt unit, 90 ° to the beam, double



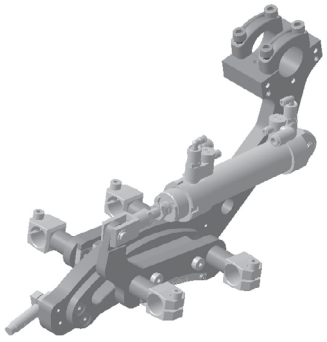
11.875 kg
Material: Aluminium



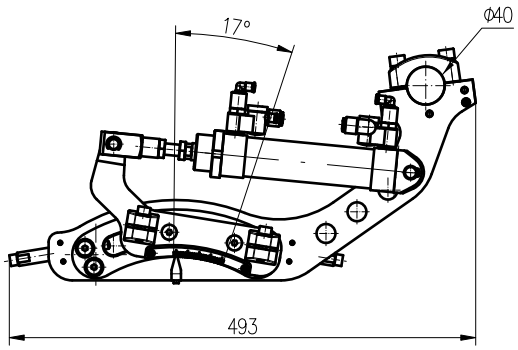


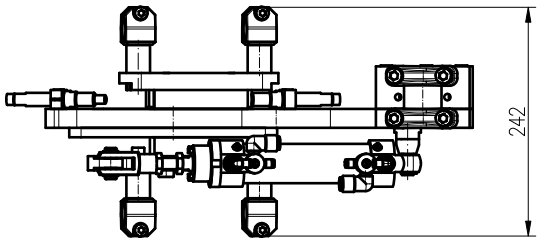
Part no.
GRS-DT-90-40-SW-V*

Tilt unit, 90 ° to the beam, single



5.623 kg
Material: Aluminium





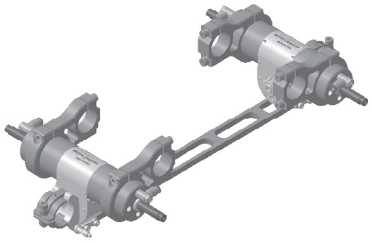
Part no.
GRS-ET-90-40-SW-V*

Swing angle and storage point must be adjusted individually

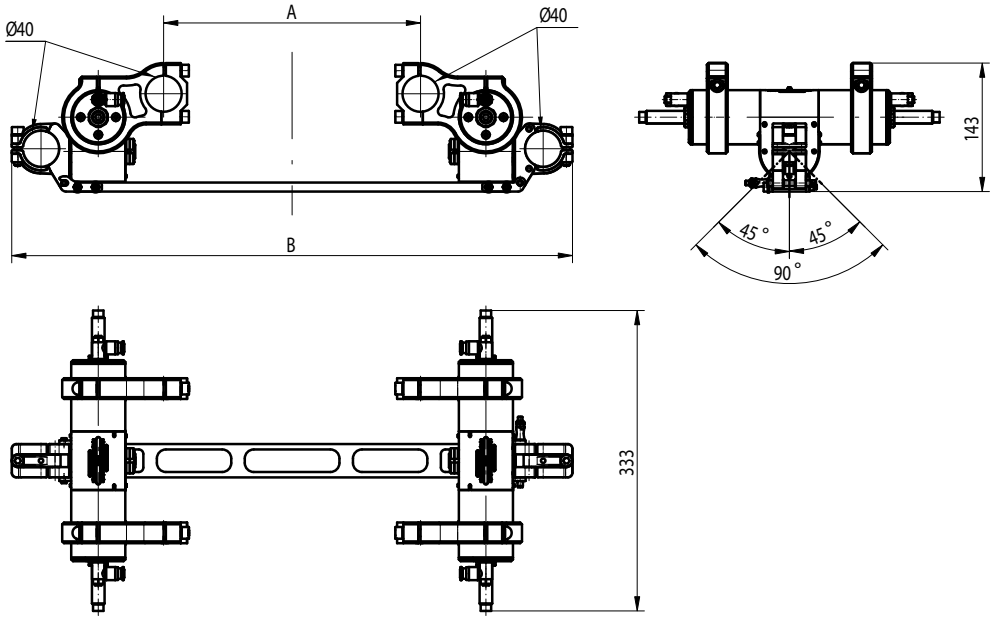
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Compact swivel unit for twin tooling



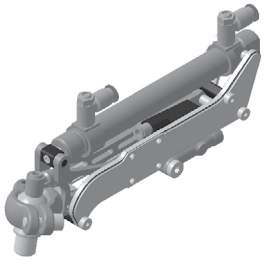
Material: Aluminium

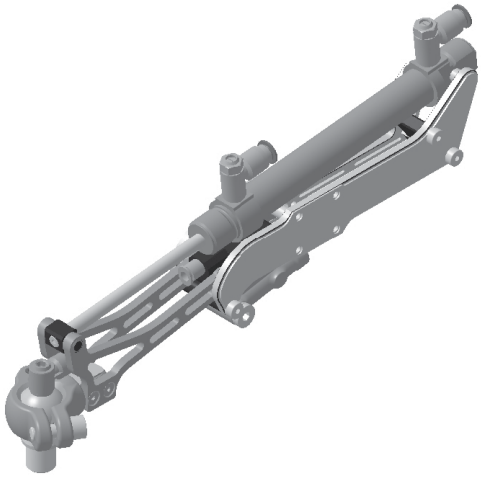


Part no.	A	B	(kg)
GRS-DT-SW-40-90-S-230	230	567	7.53
GRS-DT-SW-40-90-S-250	250	587	7.58
GRS-DT-SW-40-90-S-285	285	622	7.59

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Feed gripper

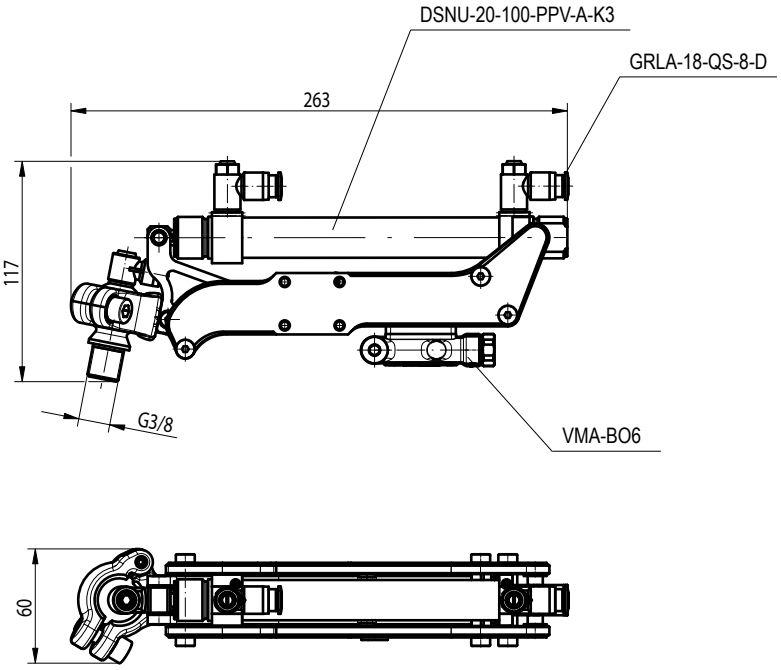




extended position

1.031 kg
Material: Aluminium

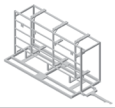
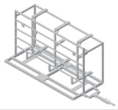
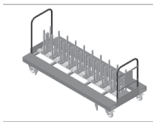
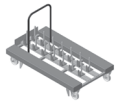
Part no.
VSG-G38-20-100-BO



Technical Data (Cylinder)	
Stroke	100 mm
Piston-Ø	20 mm
Ambient temperature	-20° ... 120°C
Operating pressure	1 ... 10 bar
Corrosion resistance classification	2 - Moderate corrosion stress
	3 - High corrosion stress
Protection against torque/guide	Square piston rod

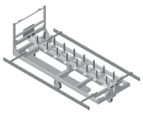
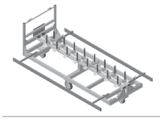
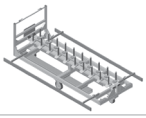
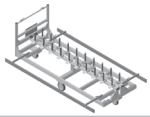
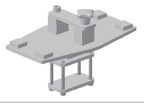
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Tooling storage cart

Page	Designation	Page
	Tooling cart	515
	Tooling cart	515
	Tooling cart	516
	Tooling frame	516
	Tooling cart	517
	Tooling frame	517
	Tooling cart	518
	Tooling cart	519
	Tooling cart	520
	Tooling cart with 4 slots	521
	Tooling cart with 8 slots	521
	Tooling cart with 20 slots	522
	Tooling cart with 2 guide	523
	Tooling cart with 1 guide	523
	Tooling cart with 14 tooling holder	524
	Tooling cart with 15 tooling holder	524

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Tooling storage cart

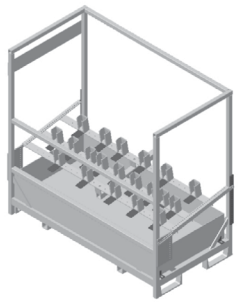
Page	Designation	Page
	Stacking trolley for transfer tooling	525
	Tooling cart	526
	Tooling support	526
	Tooling cart	527
	Tooling cart	528
	Tooling cart	529
	Tooling cart	530
	Tooling cart	531
	Upper tooling holders from type RDC-* and TDC-*	532
	Upper tooling holders from type VDC-*	532
	Upper tooling holders from type TR-A-*	533
	Upper tooling holders from type TR-A	533
	Support for Idelstation and idle frame an trolley	534
	Support for tooling arm in trolley	534

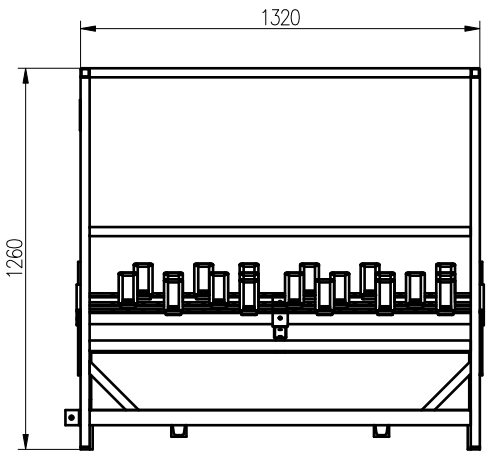
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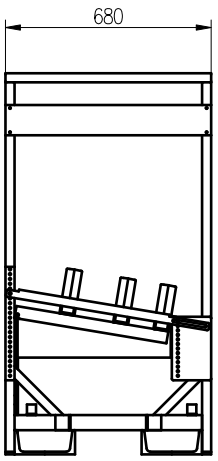
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Tooling storage cart

Tooling cart

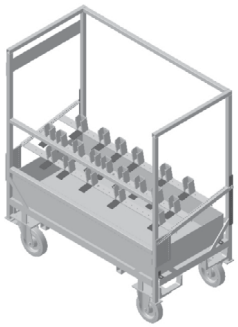


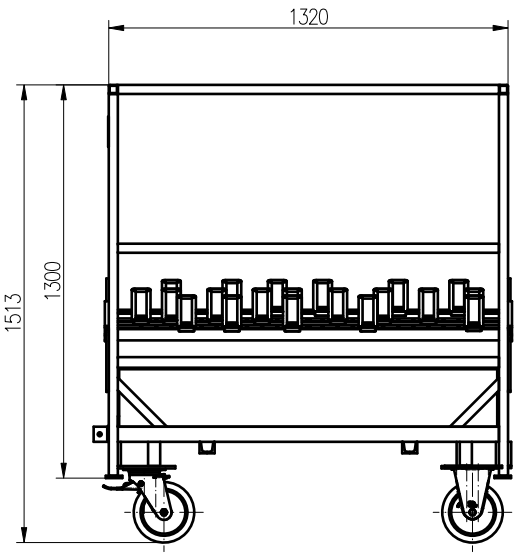


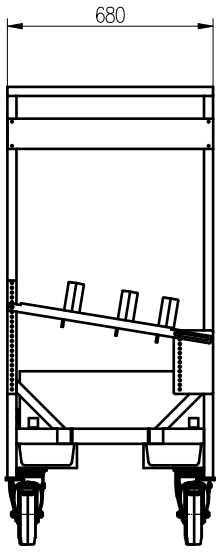


Part no.
TC-1320-680-1235-VW

Tooling cart



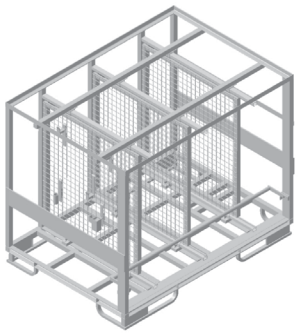


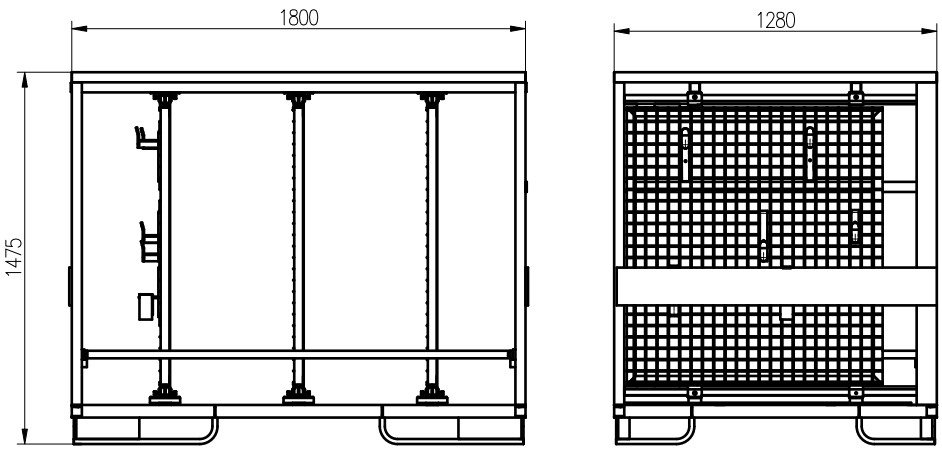


Part no.
TC-1320-680-1450-VW

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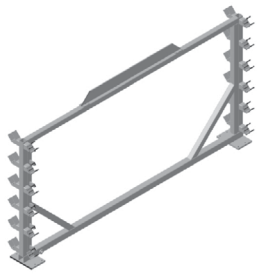
Tooling cart

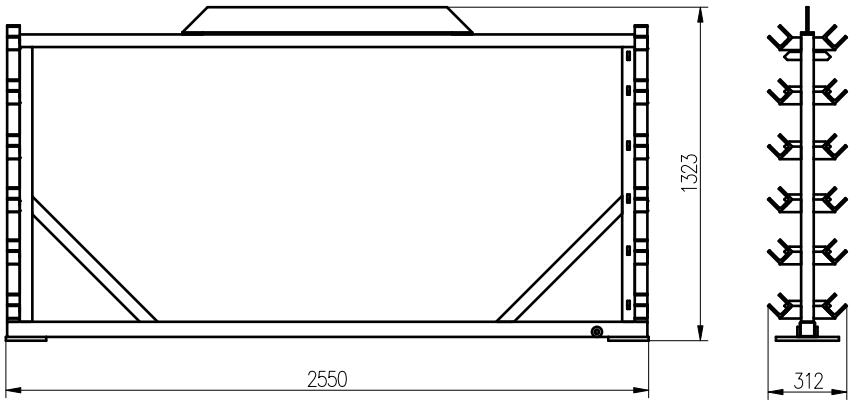




Part no.
TC-1800-1280-1475-VW

Tooling frame





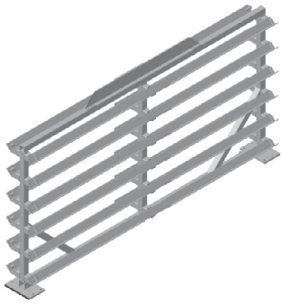
Part no.
TC-2600-1195-1310-VW

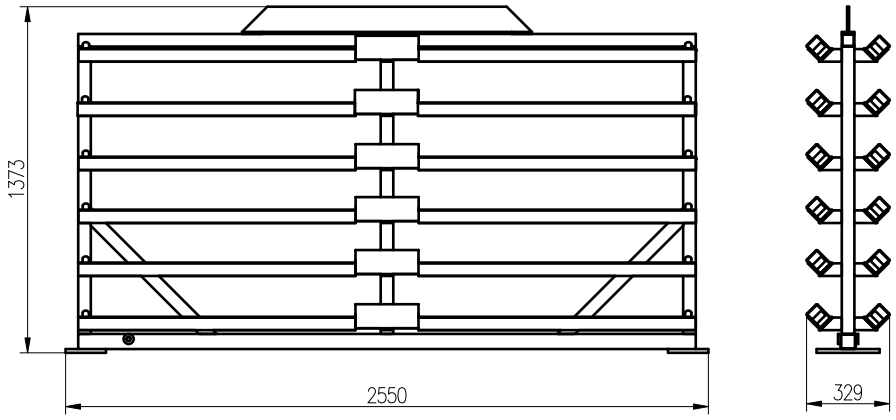
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Tooling storage cart

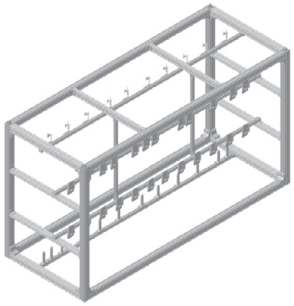
Tooling cart

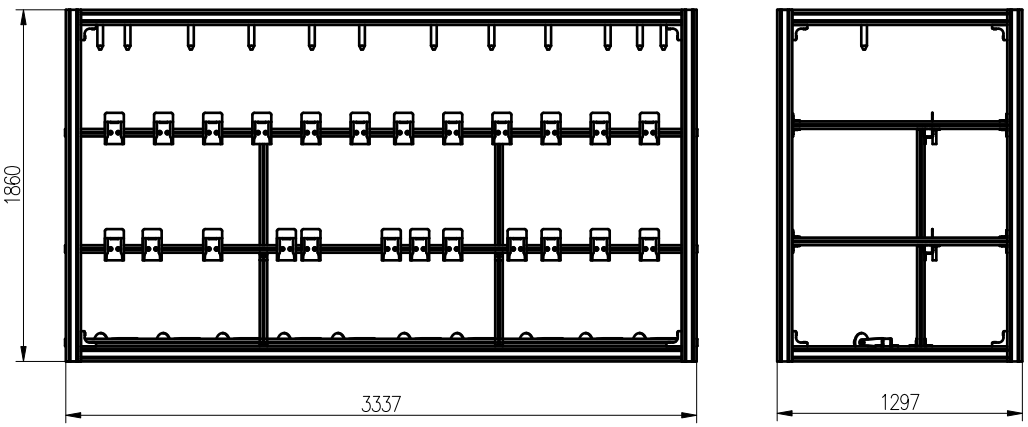




Part no.
TC-2600-1195-1360-VW

Tooling frame

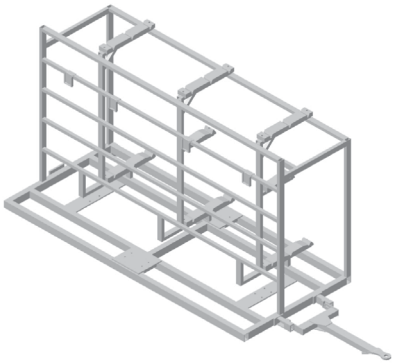




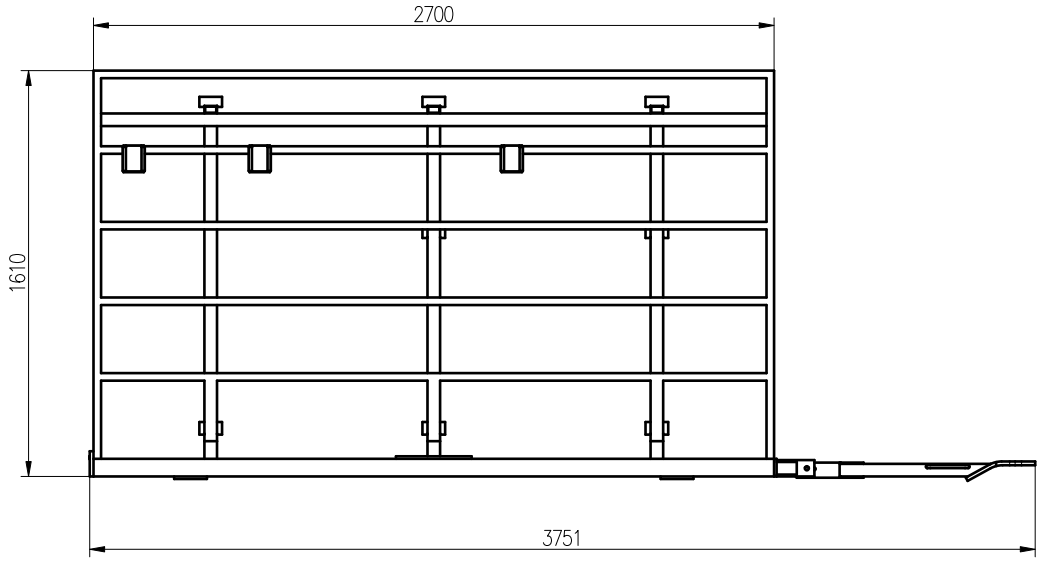
Part no.
TC-3337-1297-1860-VW

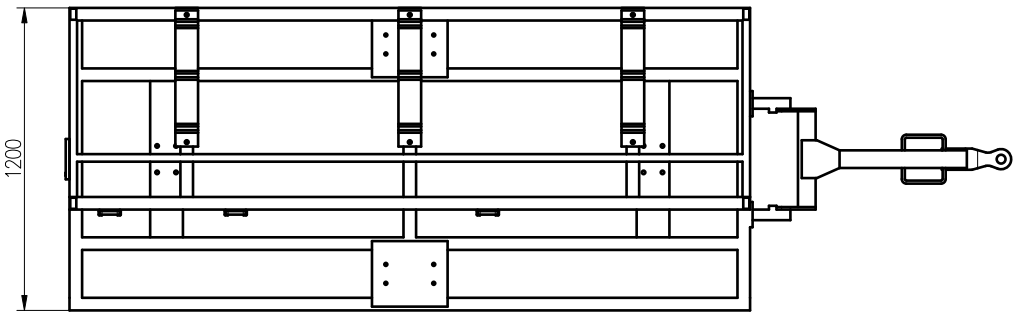
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Tooling cart



348 kg
Material: Steel



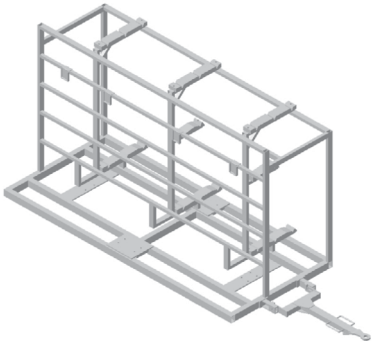


Part no.
12-38D 729940-1

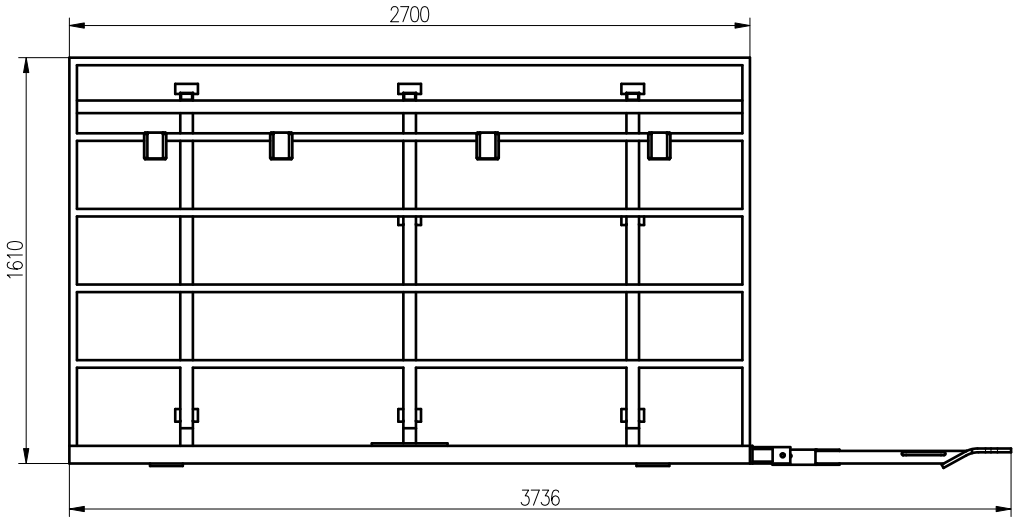
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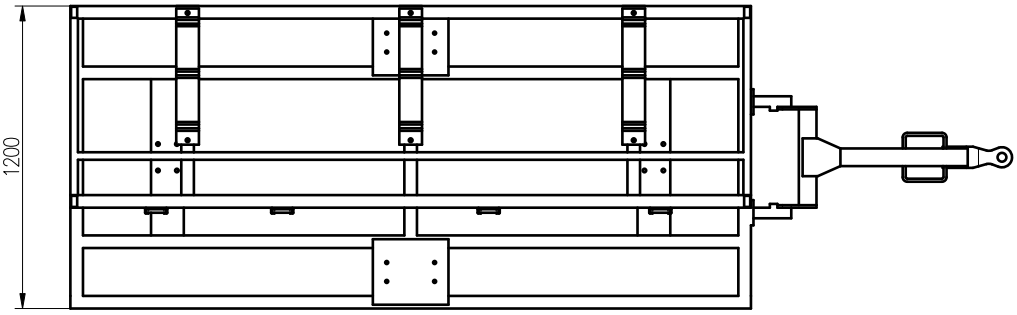
Tooling storage cart

Tooling cart



339 kg
Material: Steel

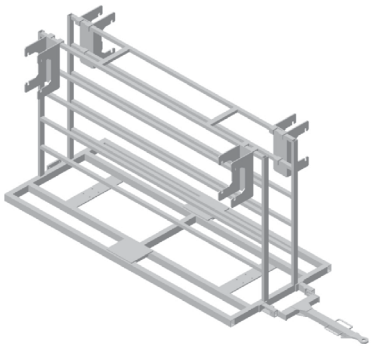




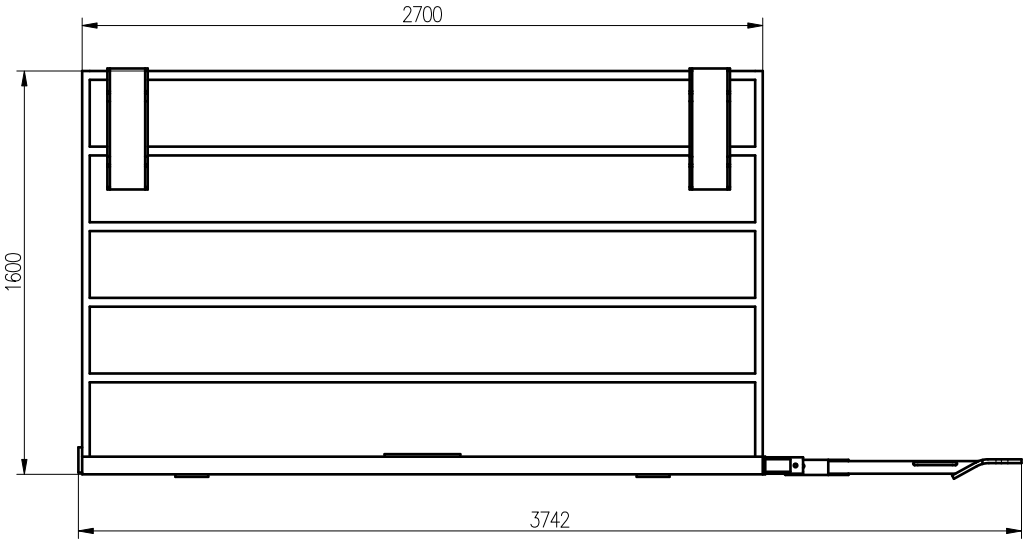
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12-38D 729940-2

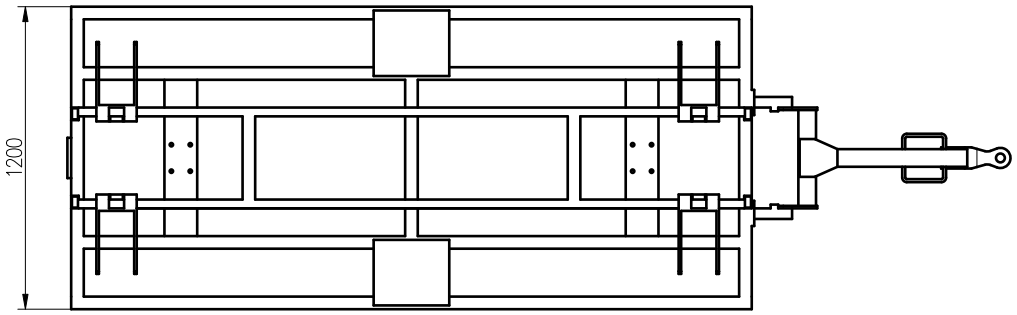
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Tooling cart



306 kg
Material: Steel





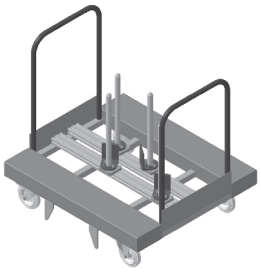
Part no.
12-38D 729940-3

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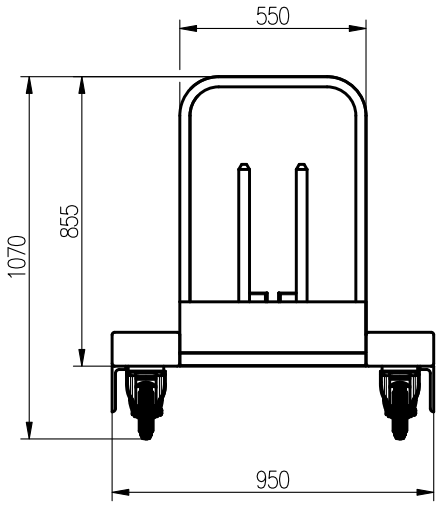
Tooling storage cart

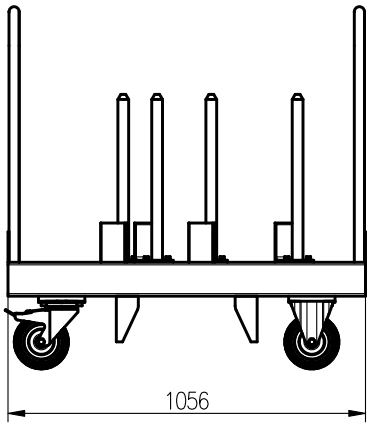
Tooling cart with 4 slots



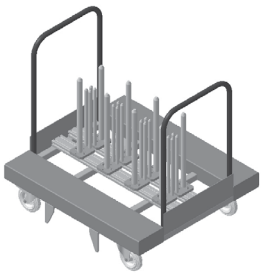
125 kg
Material: Steel

Part no.
TC-DK-04-950-1056-1070



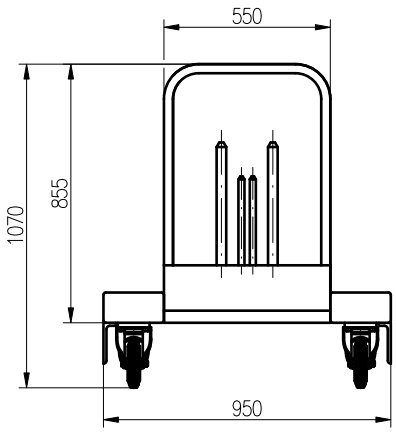


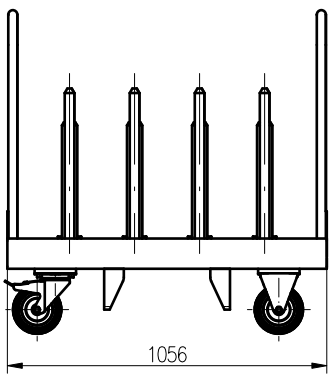
Tooling cart with 8 slots



155 kg
Material: Steel

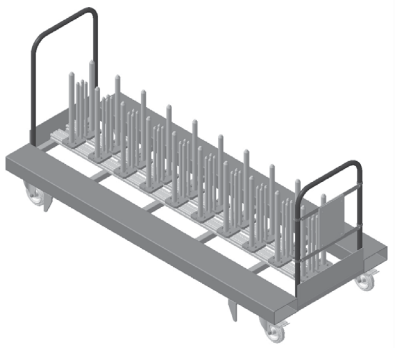
Part no.
TC-DK-08-950-1056-1070



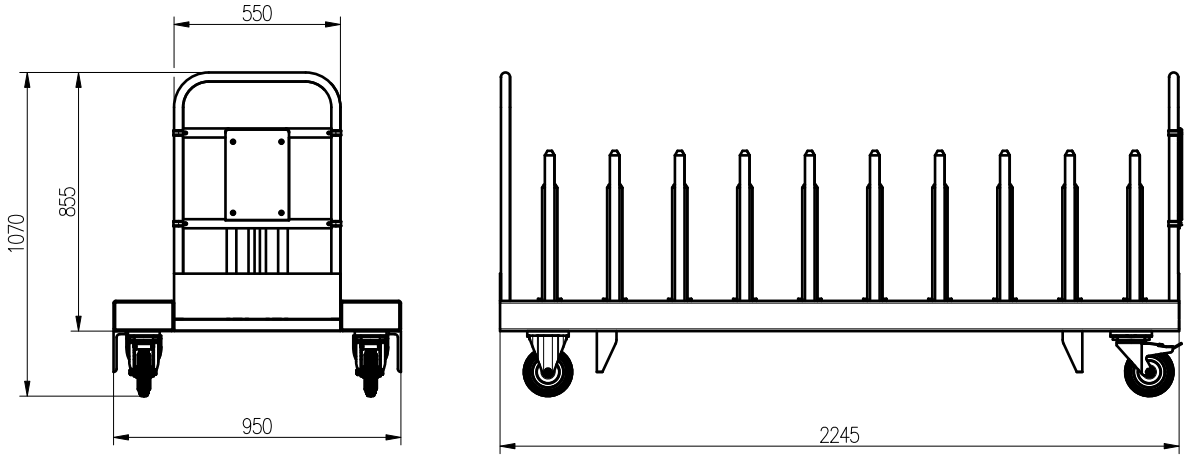


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Tooling cart with 20 slots



290 kg
Material: Steel



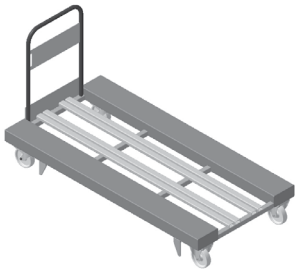
Part no.
TC-DK-20-950-2242-1070

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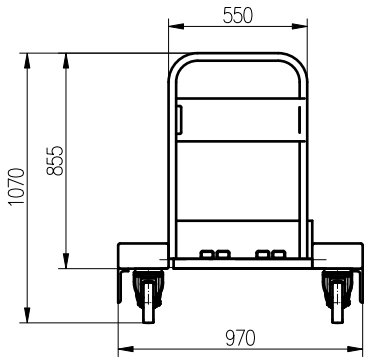
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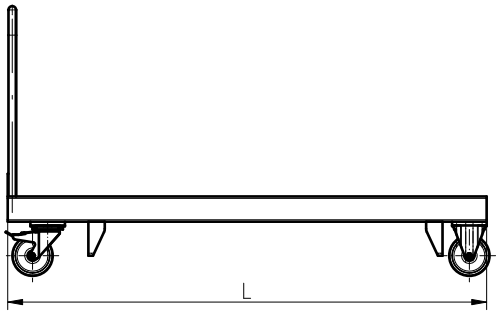
Tooling storage cart

Tooling cart with 2 guide



Material: Steel



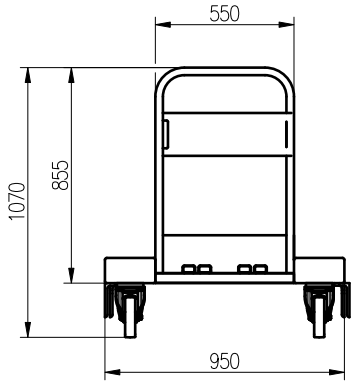


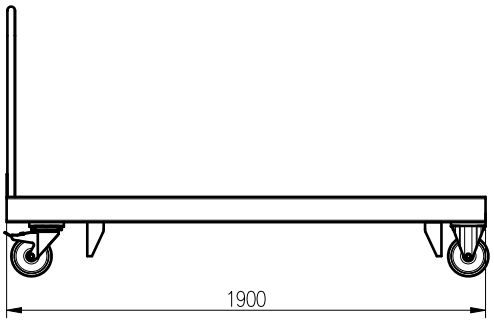
Part no.	L	(kg)
TC-RDC-8-1900-950-1070	1900	161
TC-RDC-8-2600-950-1070	2600	197

Tooling cart with 1 guide



161 kg
Material: Steel

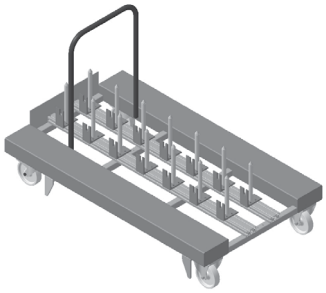




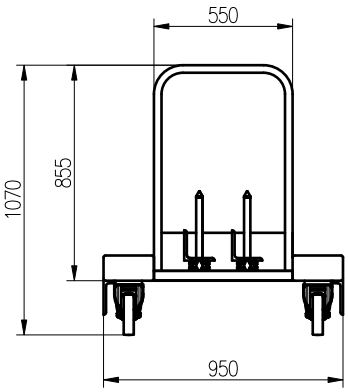
Part no.
TC-RDC-8-1900-950-1070-1

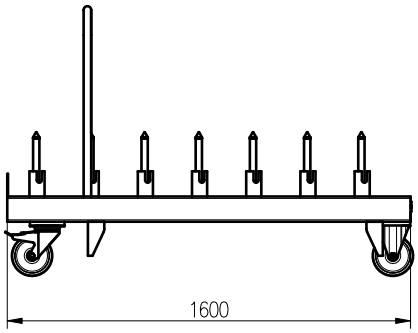
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Tooling cart with 14 tooling holder



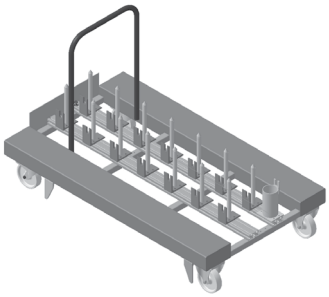
155 kg
Material: Steel



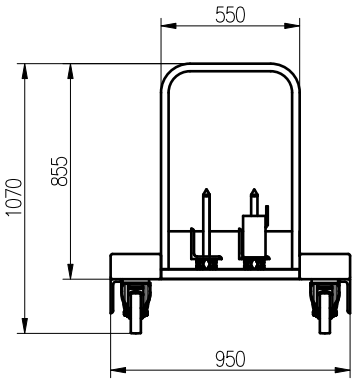


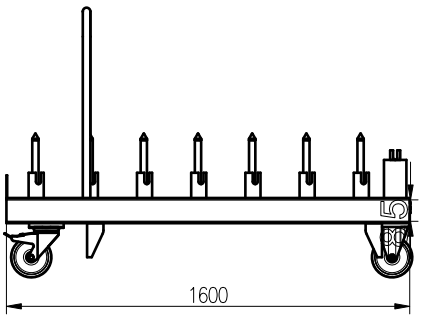
Part no.
TC-TR-A-1600-950-1070-14H

Tooling cart with 15 tooling holder



157 kg
Material: Steel





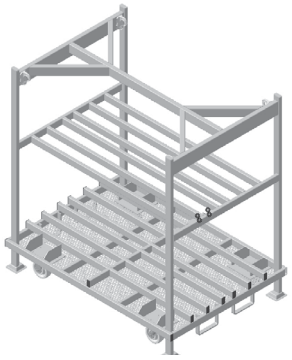
Part no.
TC-TR-A-1600-950-1070-14H-1RDC

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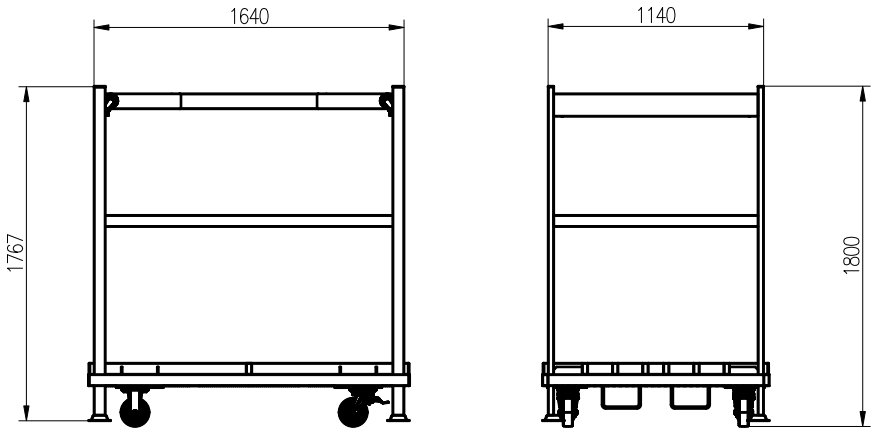
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Tooling storage cart

Stacking trolley for transfer tooling



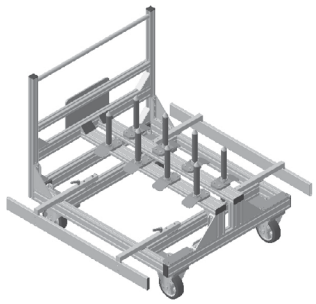
80 kg
Material: Steel



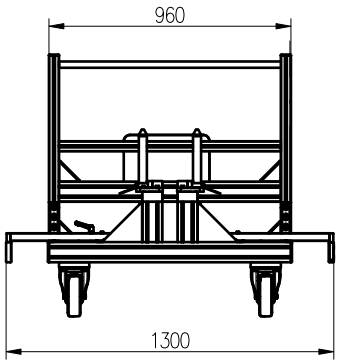
Part no.
TC-SW-KE-01

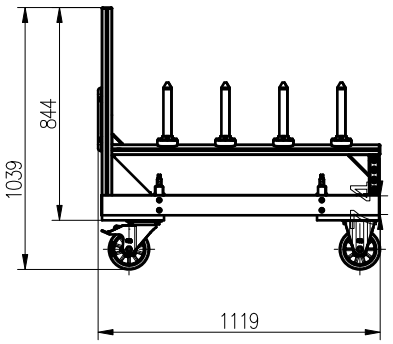
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Tooling cart



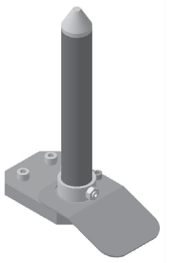
80 kg
Mat.: Aluminium/ Steel





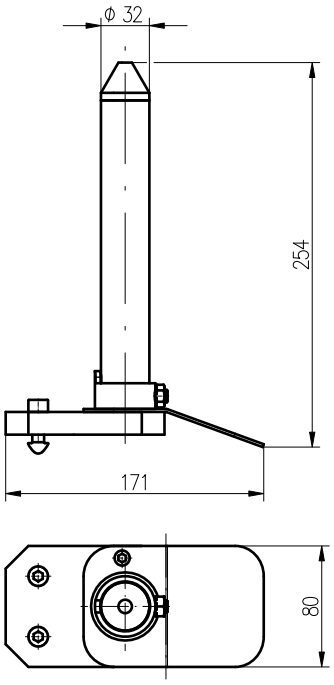
Part no.
TC-DK-LBL-001

Tooling support



1.25 kg
Material: Steel

Part no.
TC-DK-PXL-001-A015

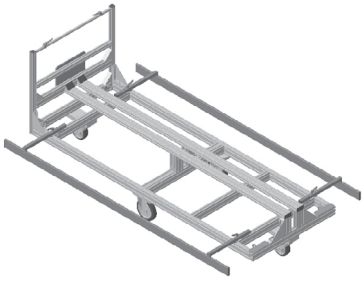


Subject to modification
Edition 01 / 2023 - 2024 Standard

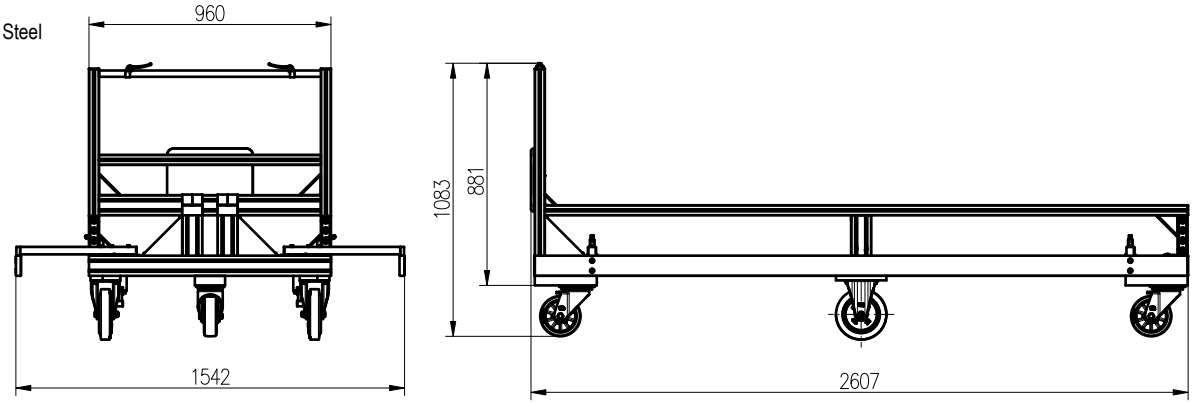
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Tooling storage cart

Tooling cart



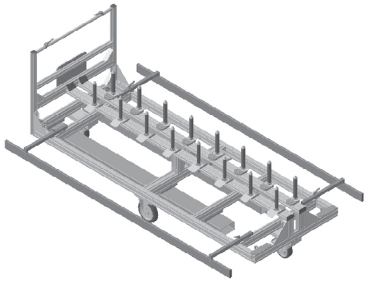
126 kg
Mat.: Aluminium/ Steel



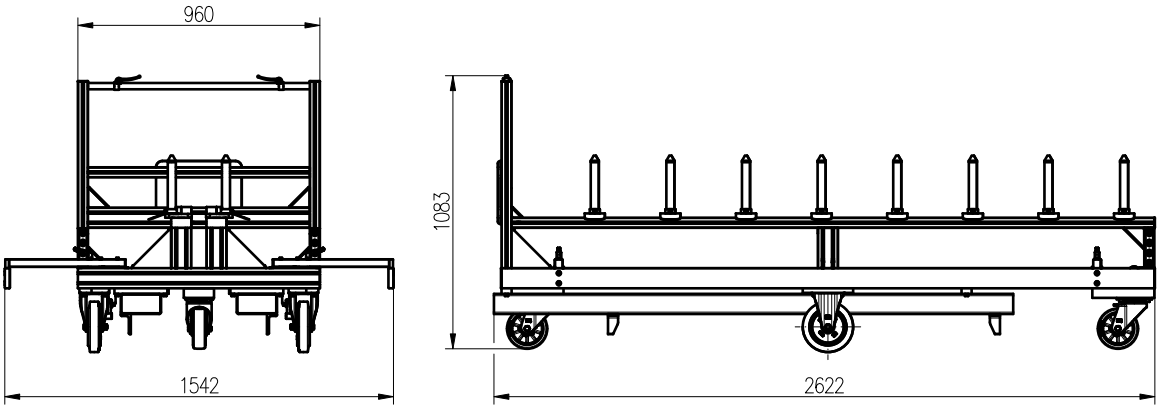
Part no.
TC-DK-PXL-001

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Tooling cart



207 kg
Mat.: Aluminium/ Steel



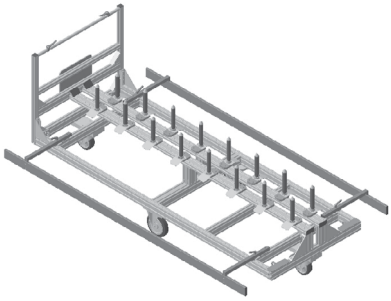
Part no.
TC-DK-16-MZ

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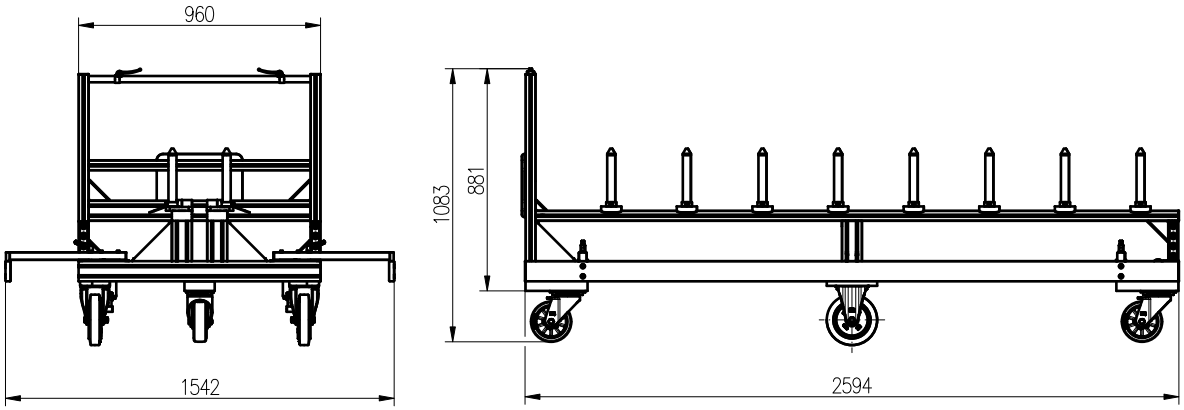
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Tooling storage cart

Tooling cart



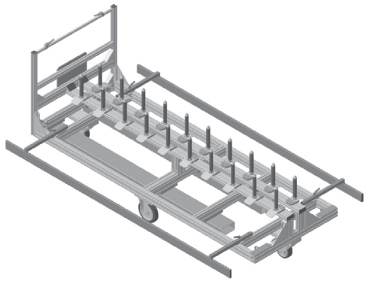
150 kg
Mat.: Aluminium/ Steel



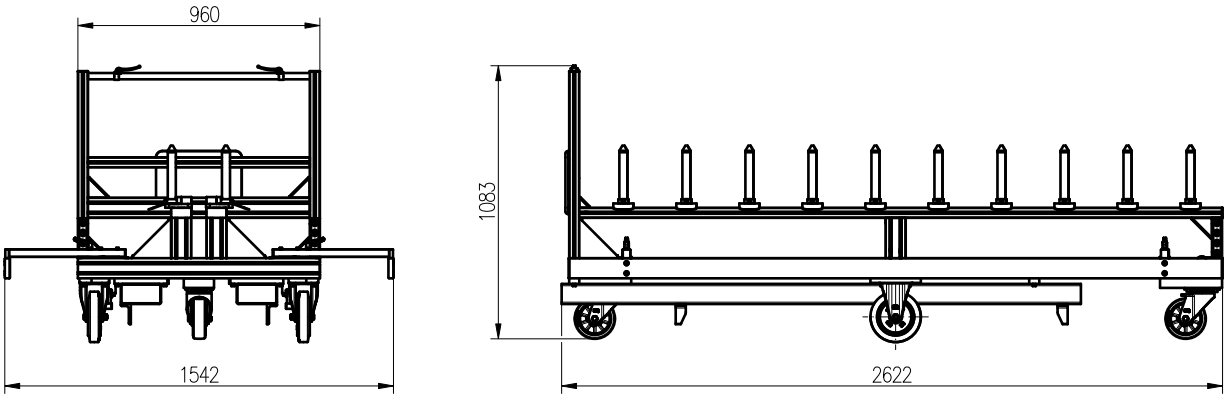
Part no.
TC-DK-16-OZ

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Tooling cart



213 kg
Mat.: Aluminium/ Steel



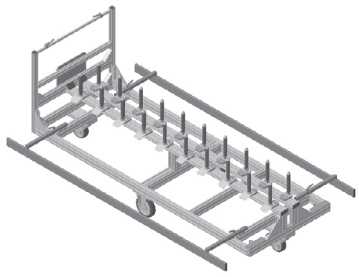
Part no.
TC-DK-20-MZ

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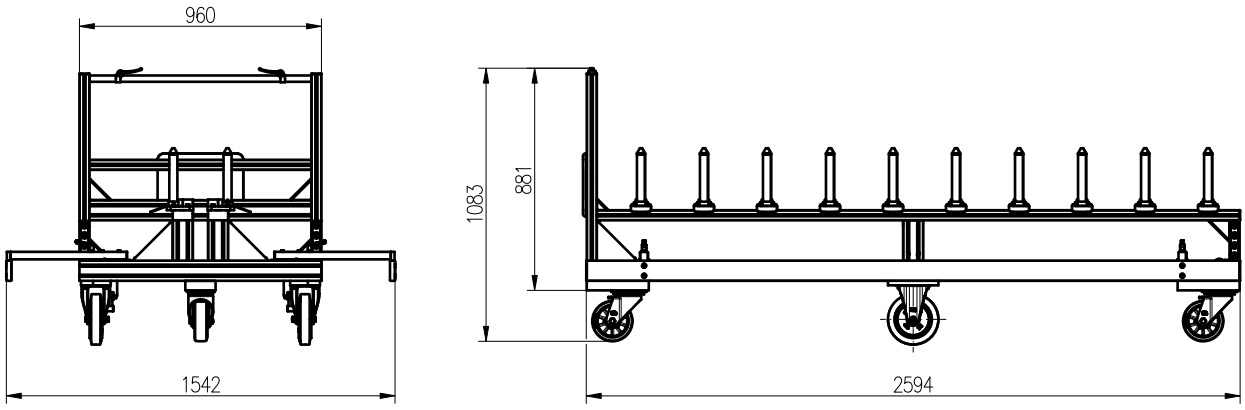
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Tooling storage cart

Tooling cart



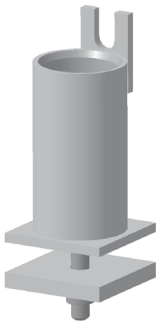
157 kg
Mat.: Aluminium/ Steel



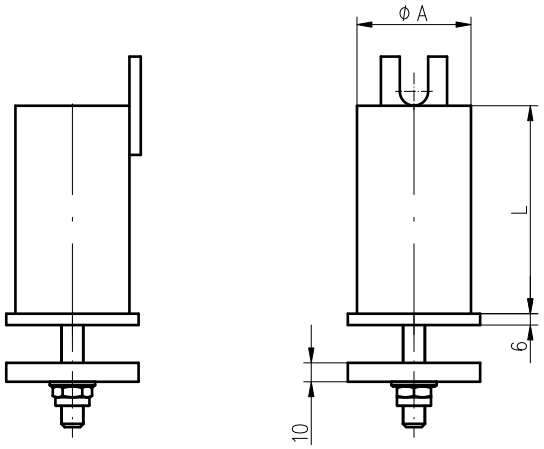
Part no.
TC-DK-20-OZ

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Upper tooling holders from type RDC-* and TDC-*



Material: Steel



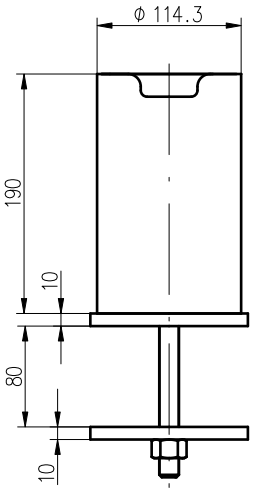
Part no.	Ø A	L	(kg)
TH-40-110	53.9	110	0.93
TH-60-165	89.0	165	1.38
TH-60-317	89.0	317	2.10
TH-60-470	89.0	471	2.60
TH-60-600	89.0	600	3.80
TH-60-950	89.0	950	4.50

Upper tooling holders from type VDC-*



4.22 kg
Material: Steel

Part no.
TH-VDC-60

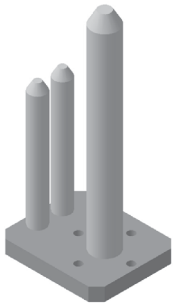


Subject to modification
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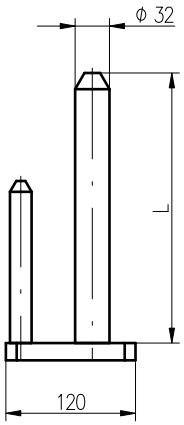
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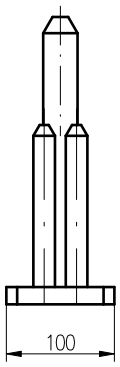
Tooling storage cart

Upper tooling holders from type TR-A-*



Material: Steel



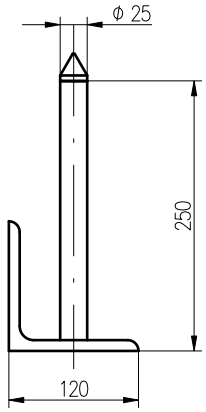


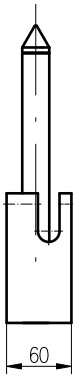
Ordering information	e.g.: TH-TR-A-40-250
TH-TR-A-40	-L
	Length
	↓
	250
	300
	500

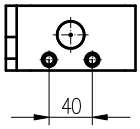
Upper tooling holders from type TR-A



1.38 kg
Material: Steel



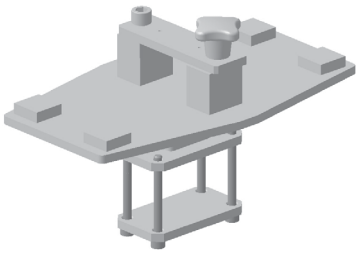




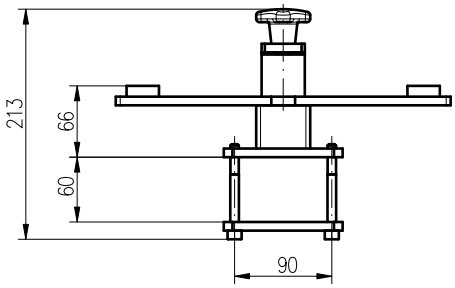
Part no.
TH-TR-40-95-25-250

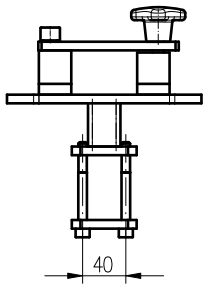
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Support for Idelstation and idle frame an trolley

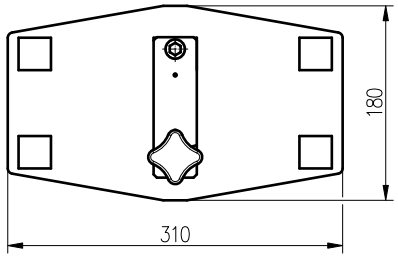


5.54 kg
Material: Steel

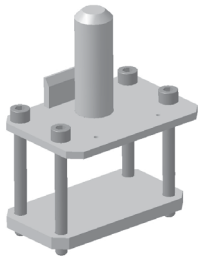




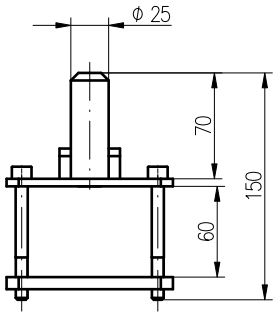
Part no.
TC-SW-DB-Z-001

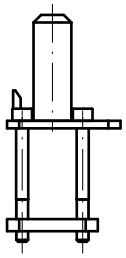


Support for tooling arm in trolley

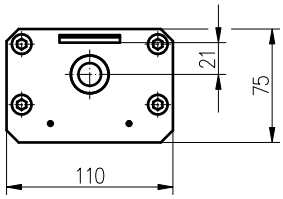


0.994 kg
Material: Steel





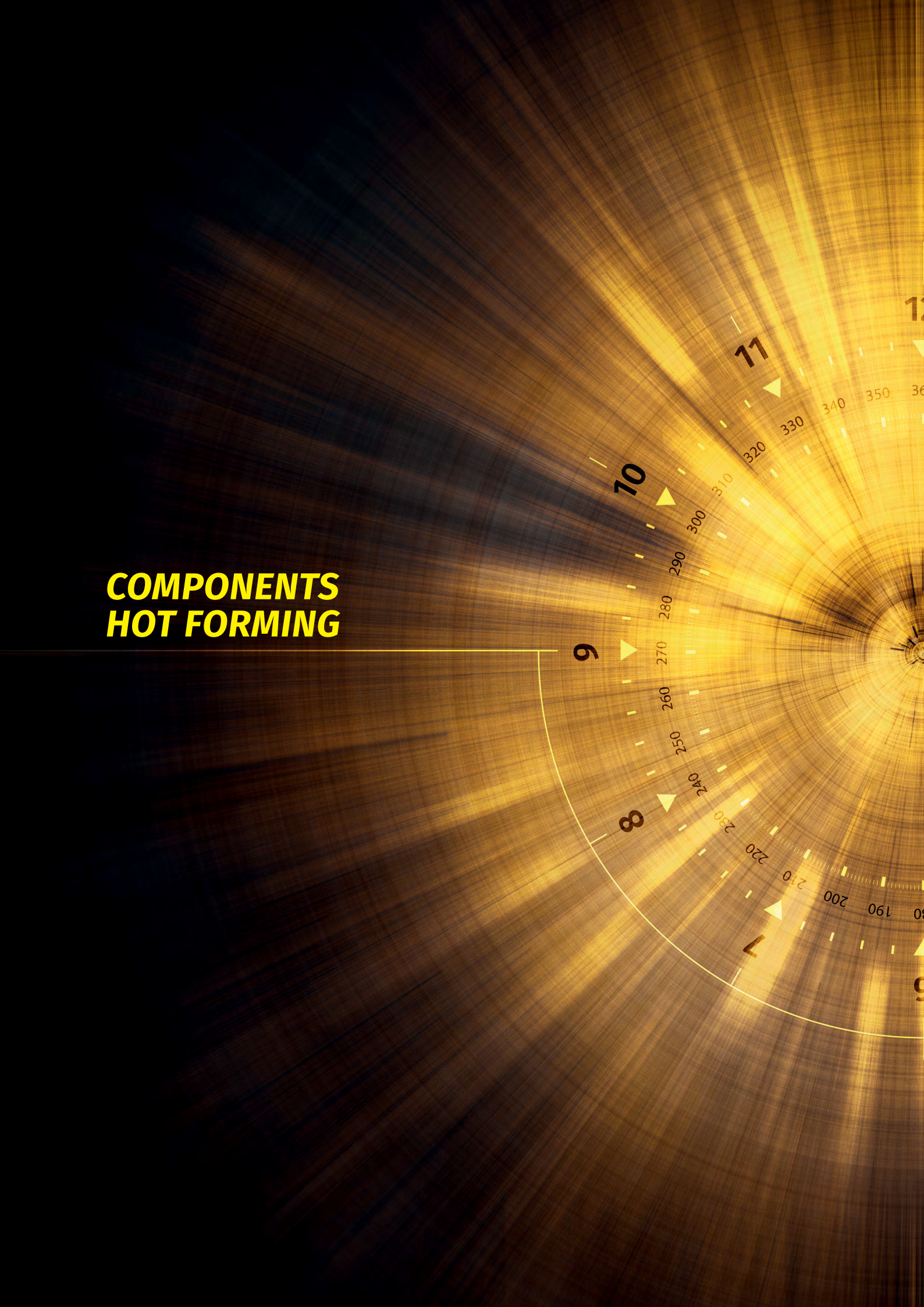
Part no.
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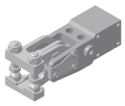
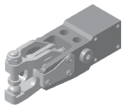
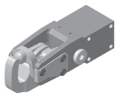
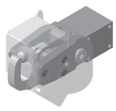
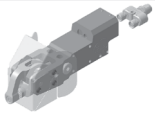
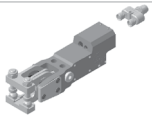
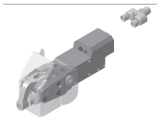
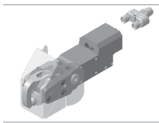
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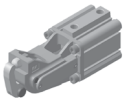
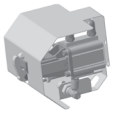
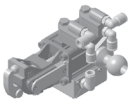
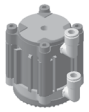
COMPONENTS HOT FORMING



Hot forming components

Picture	Designation	Page
	Feeder beam for hot forming	543
	Feeder beam for hot forming	544
	Pneumatic clamp, PSB-20-I-01-87-3-SPD2-K2-S3-WF	545
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	Pneumatic clamp, PSB-20-L-02-62-0-B1-B1-WF	547
	Pneumatic clamp, PSB-20-L-02-62-0-D1-K2-WF	548
	Pneumatic clamp, PSB-20-L-02-62-0-B1-B1-S3-WF	549
	Pneumatic clamp, PSBD-20-I-01-87-3-SPD2-K2-S3-WF	550
	Pneumatic clamp, PSBD-20-L-02-62-0-B1-B1-S3-WF	551
	Pneumatic clamp, PSBD-20-L-02-62-0-D1-K2-S3-WF	552
	Clamping pin	553
	Gripper jaw	553
	Gripper jaw	553
	Coupling with locking + air (left), heat resistant	554
	Coupling with locking + air (right), heat resistant	554
	Hot forming components	555

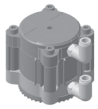
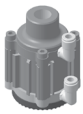
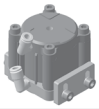
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Picture	Designation	Page
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	Pneumatic clamp, PSQ-40-L, high-temperature	557
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	Clamp mount for PSQ clamp	560
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	Flat foot cups, round	563
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	Traction cups, round	565
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	Outer contour cup, oval	568
	Pneumatic magnet, high-temperature	569
	Pneumatic magnet, high-temperature	570

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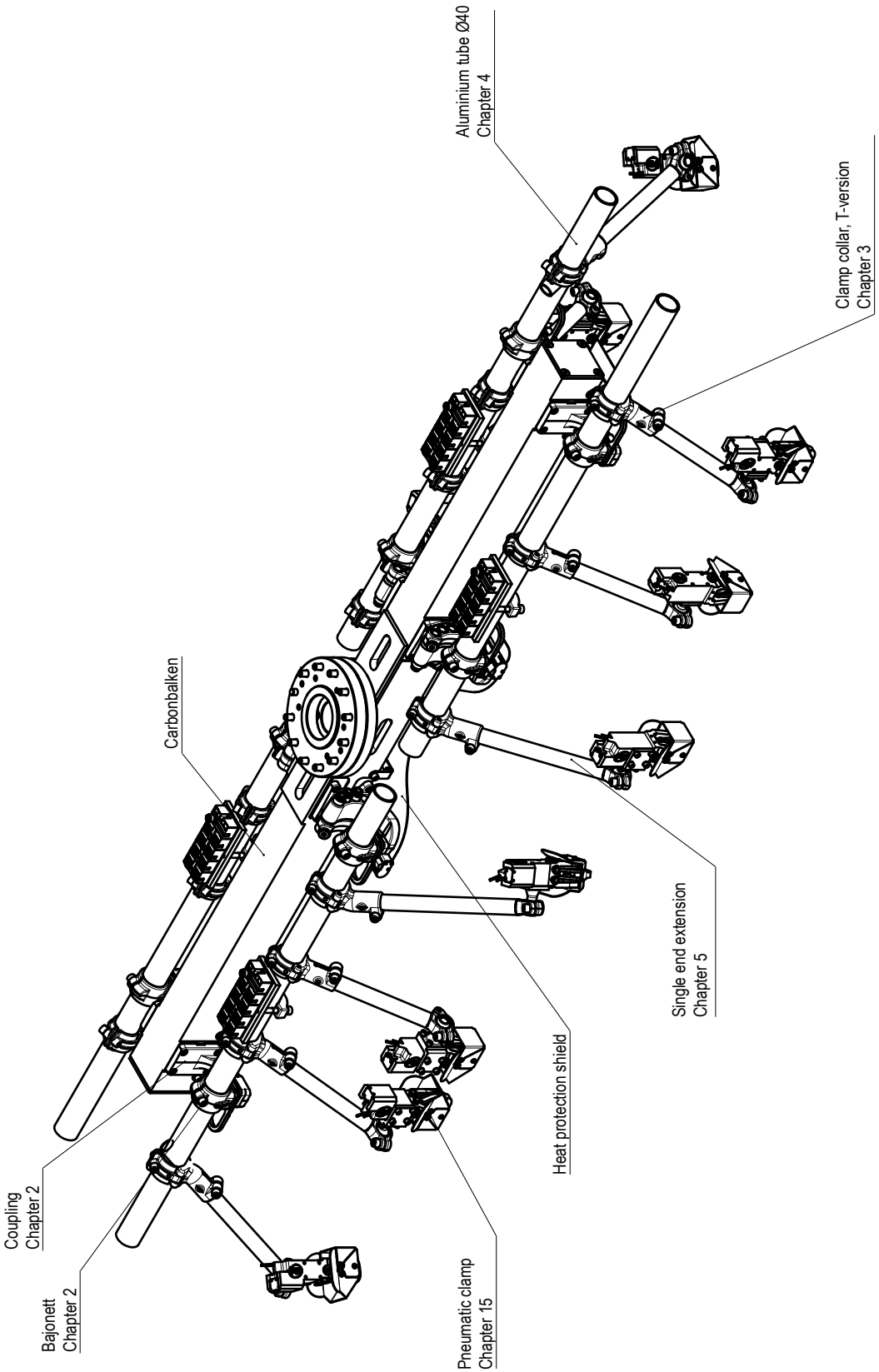
Hot forming components

Picture	Designation	Page
	Pneumatic magnet, high-temperature	571
	Pneumatic magnet with 3/8 inch thread, high-temperature	572
	Pneumatic magnet with 3/8 inch thread, high-temperature	573
	Pneumatic magnet with 3/8 inch thread, high-temperature	574
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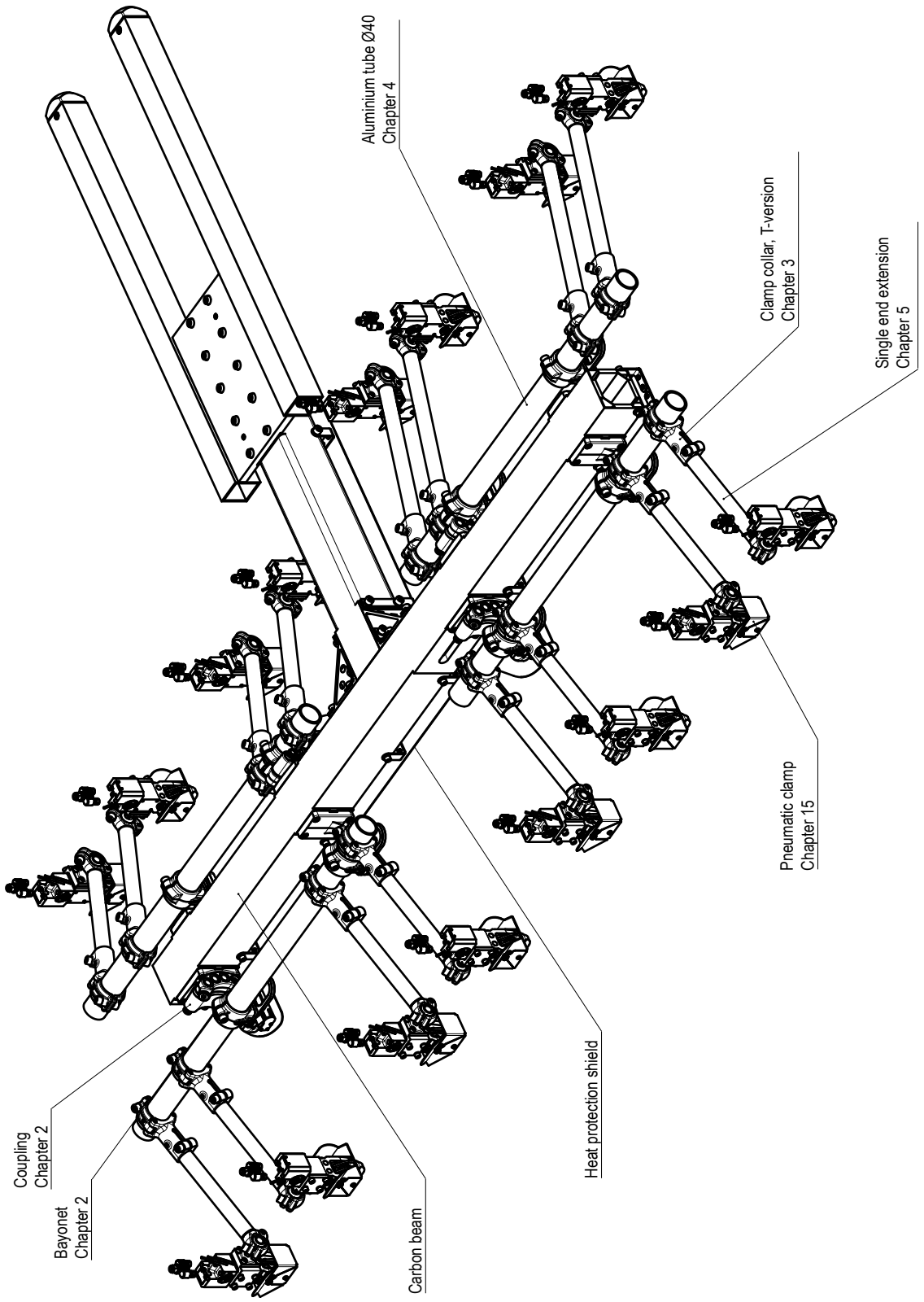
Hot forming components

Feeder beam for hot forming



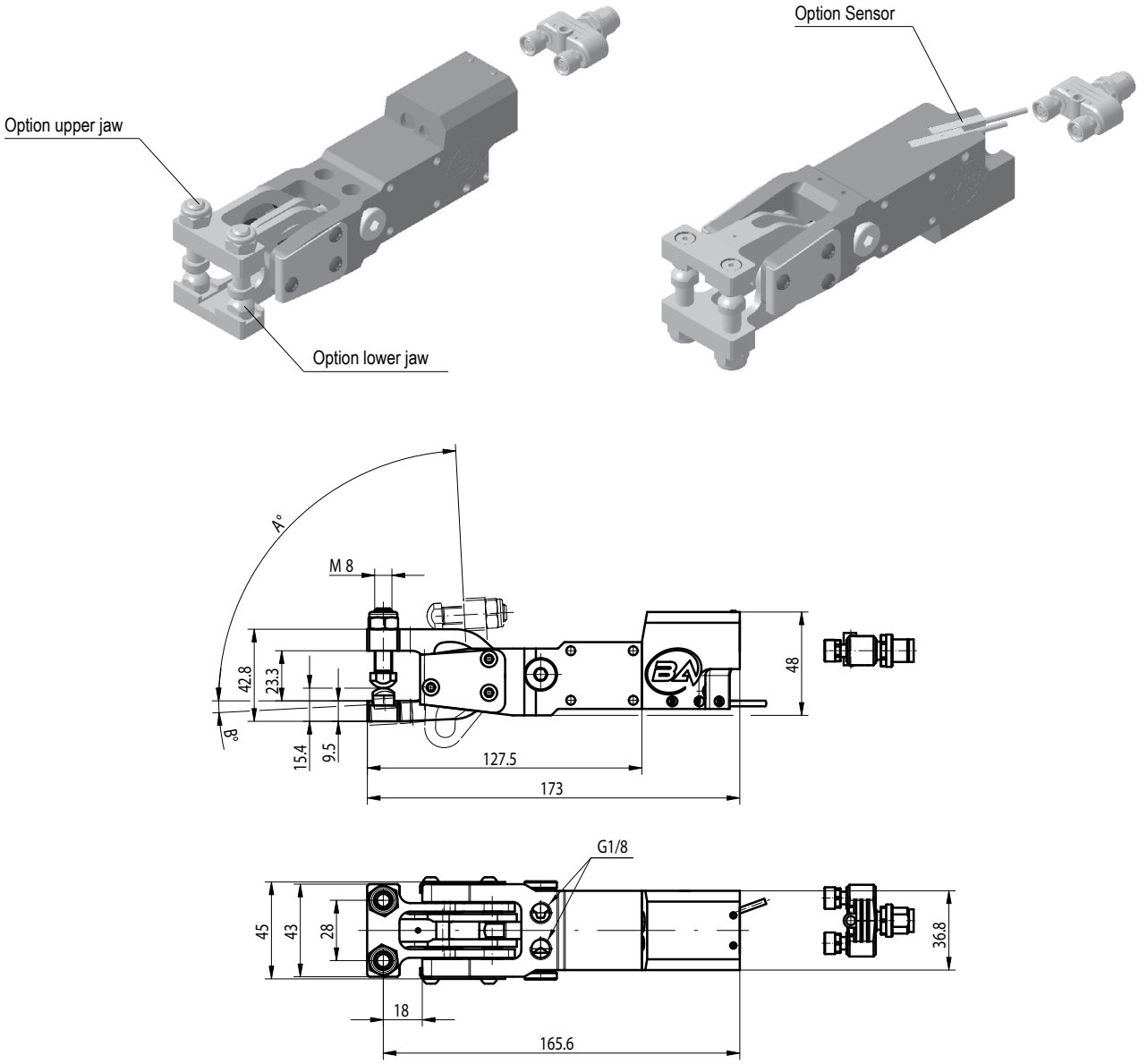
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Feeder beam for hot forming



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Pneumatic clamp, PSB-20-I-01-87-3-SPD2-K2-S3-WF



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-01-87-3-SPD2-K2-S3-WF	87	3	SPD2	K2	S3	0.68

Option upper jaw (Clamping pin)	Part no.
SPD2	SPD2-M8-37

Option lower jaw	Part no.
K2	K2-M4-8

Option Sensor	Part no.
S3	DCCQ 05 M 1.5 PSK-K-TSL

Option upper jaw / lower jaw / Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-I-02

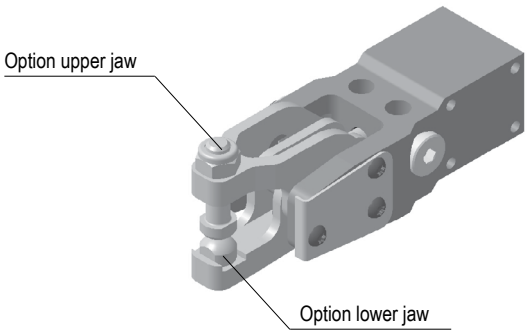
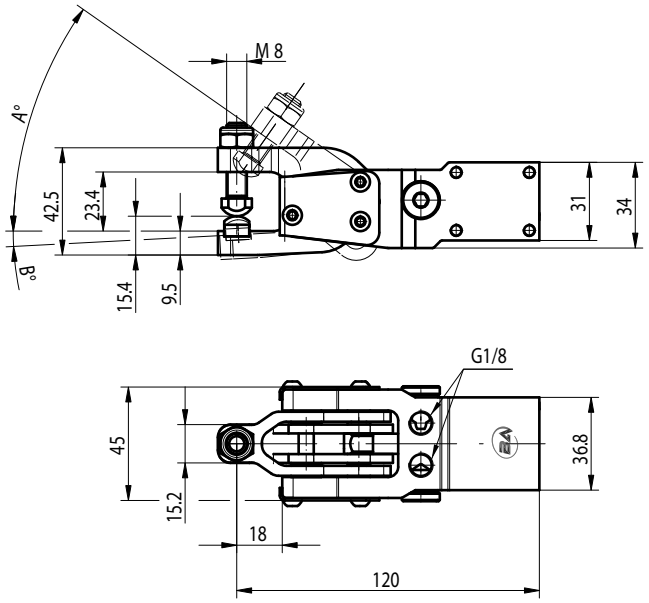


illustration PSB-20-I-02-35-3-SPD2-K2-WF



self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-I-02-35-3-SPD2-K2-WF	35	3	SPD2	K2	-	0.466
PSB-20-I-02-87-3-SPD2-K2-WF	87					

Option upper jaw (Clamping pin)	Part no.
SPD2	SPD2-M8-37

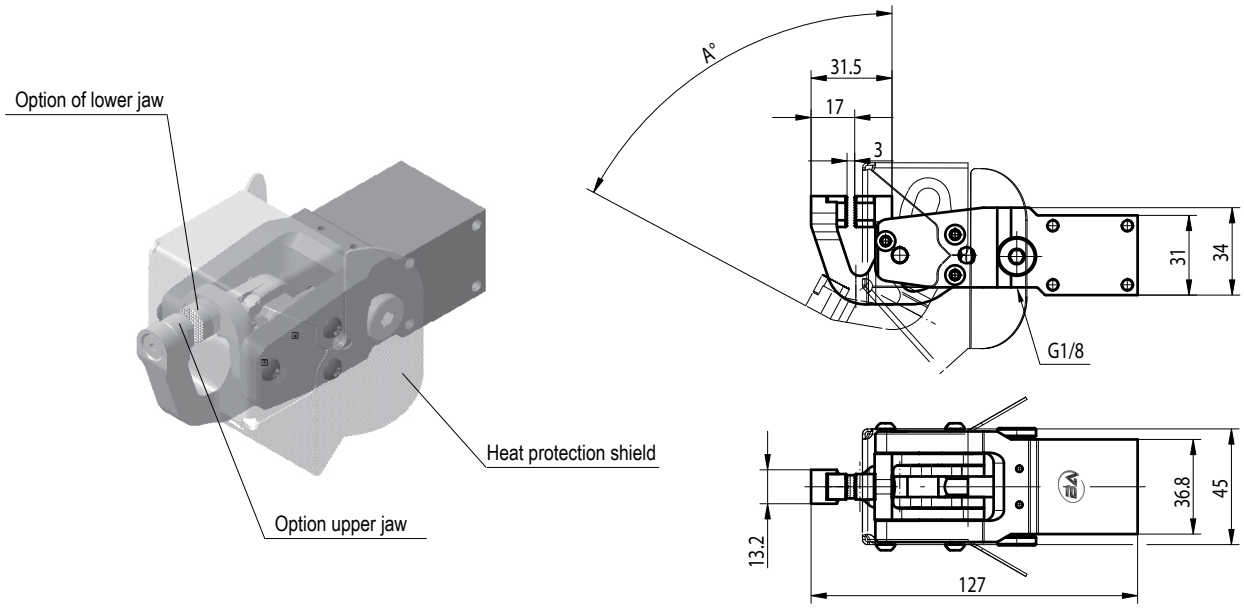
Option lower jaw	Part no.
K2	K2-M4-8

Option upper jaw / Option lower jaw: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-L-02-62-0-B1-B1-WF



self-locking

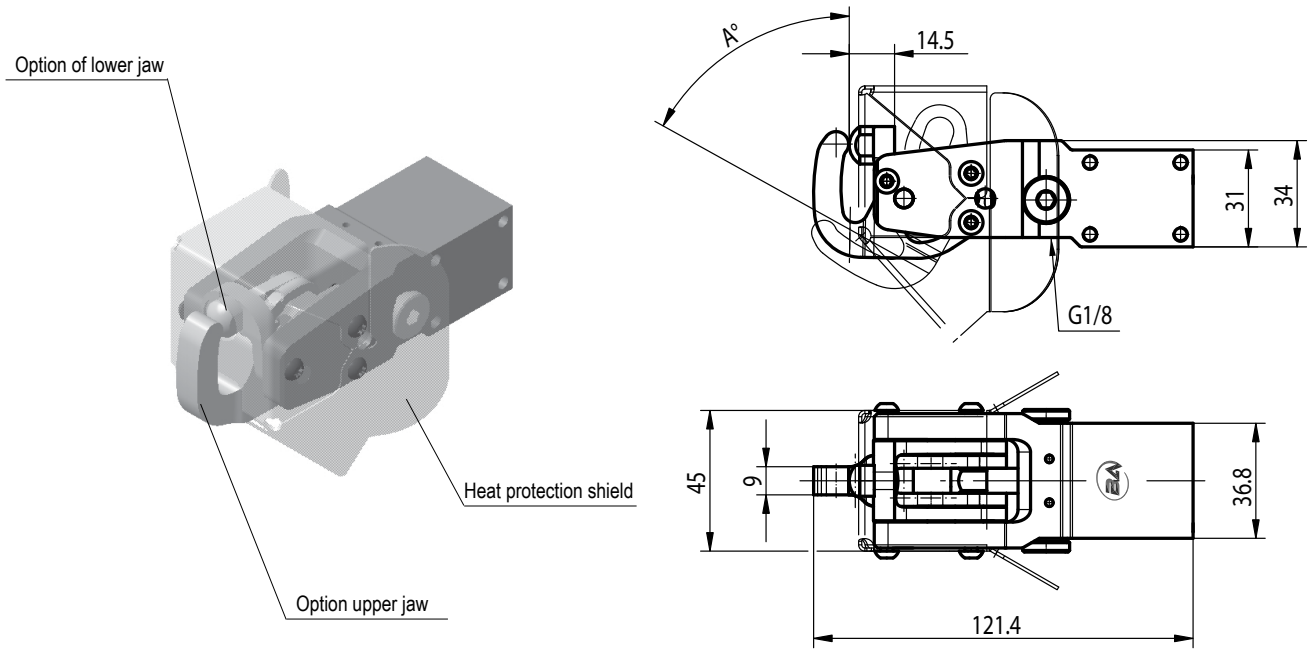
Part no.	Aperture angle A°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-L-02-62-0-B1-B1-WF	62	B1	B1	-	0.521

Option upper jaw	Part no.
B1	B1-M4-8

Option lower jaw	Part no.
B1	B1-M4-8

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Pneumatic clamp, PSB-20-L-02-62-0-D1-K2-WF



self-locking

Part no.	Aperture angle A°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSB-20-L-02-62-0-D1-K2-WF	62	D1	K2	-	0.521

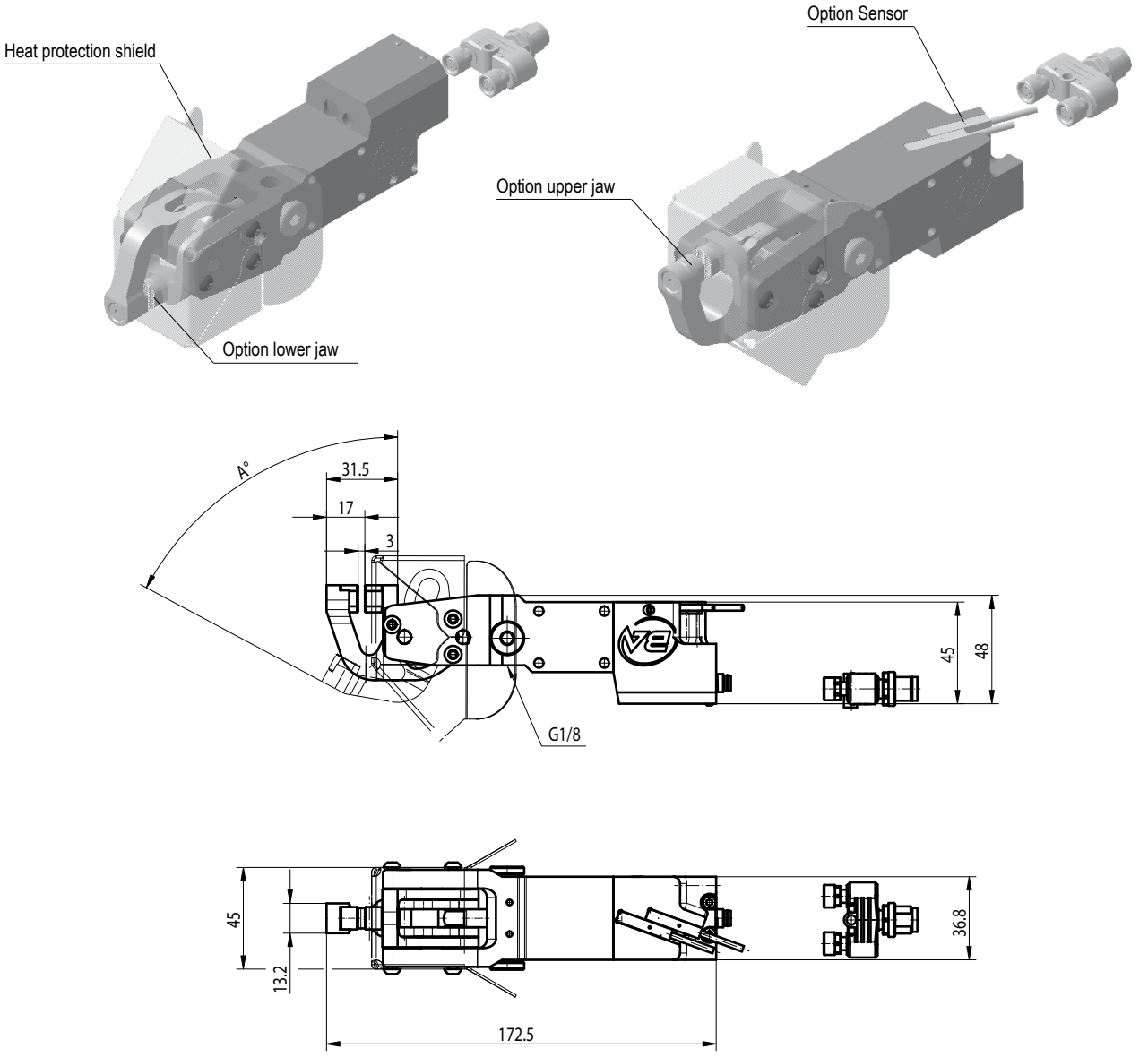
Option lower jaw	Part no.
K2	K2-M4-8

Option lower jaw: Dimensions see separate data sheet

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Pneumatic clamp, PSB-20-L-02-62-0-B1-B1-S3-WF



self-locking

Part no.	Aperture angle A°	Option of upper jaw	Option of lower jaw	Option Sensor	▮ (kg)
PSB-20-L-02-62-0-B1-B1-S3-WF	62	B1	B1	S3	0.666

Option upper jaw	Part no.
B1	B1-M4-8

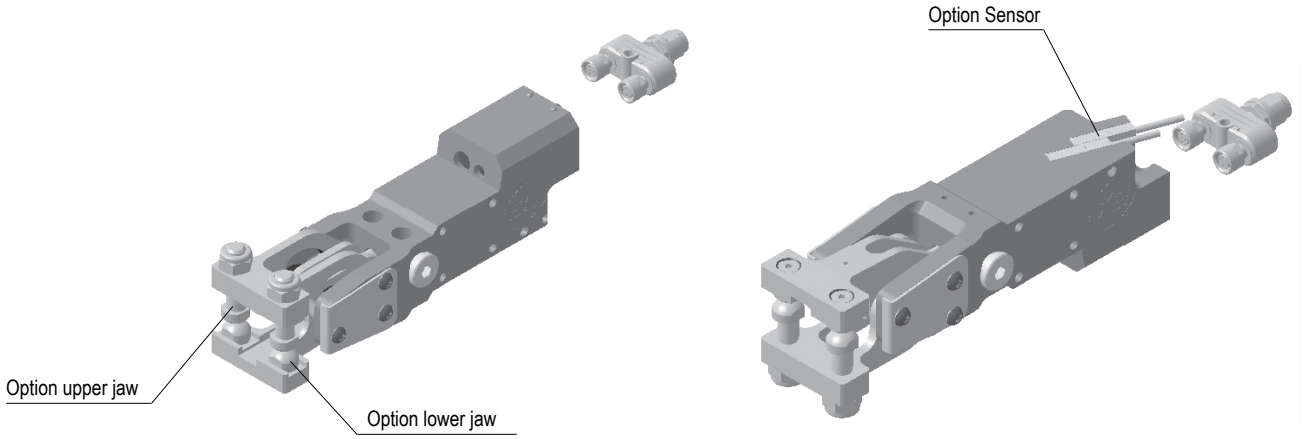
Option lower jaw	Part no.
B1	B1-M4-8

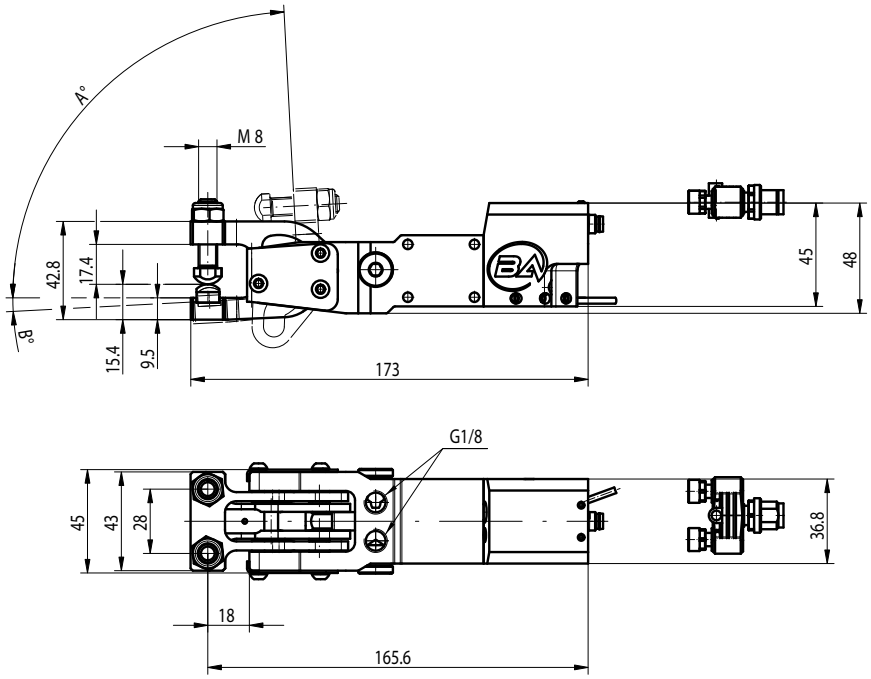
Option Sensor	Part no.
S3	DCCQ 05 M 1.5 PSK-K-TSL

Option upper jaw / lower jaw / Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSBD-20-I-01-87-3-SPD2-K2-S3-WF





self-locking

Part no.	Aperture angle A°	Aperture angle B°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-I-01-87-03-SPD2-K2-S3-WF	87	3	SPD2	K2	S3	0.68

Option upper jaw (Clamping pin)	Part no.
SPD2	SPD2-M8-37

Option lower jaw	Part no.
K2	K2-M4-8

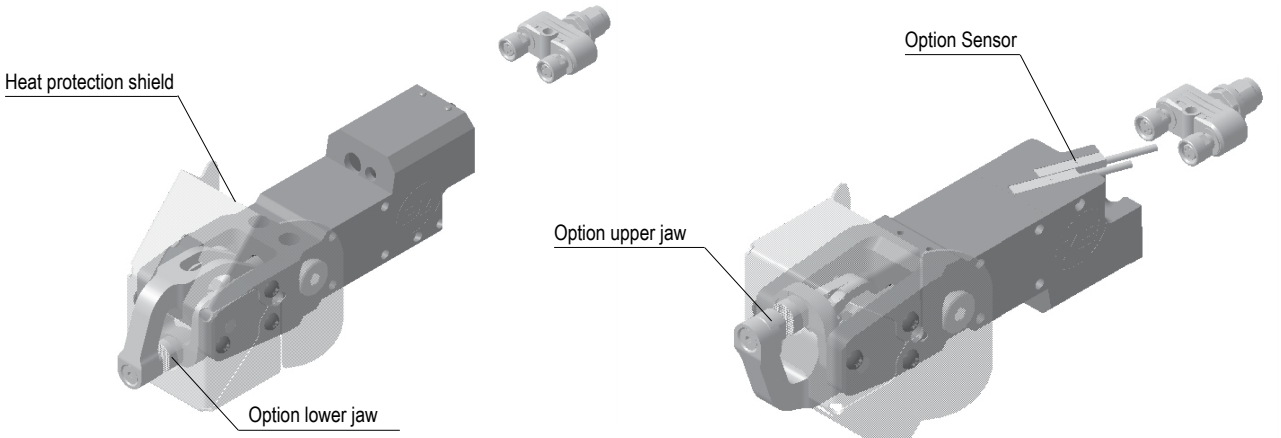
Option Sensor	Part no.
S3	DCCQ 05 M 1.5 PSK-K-TSL

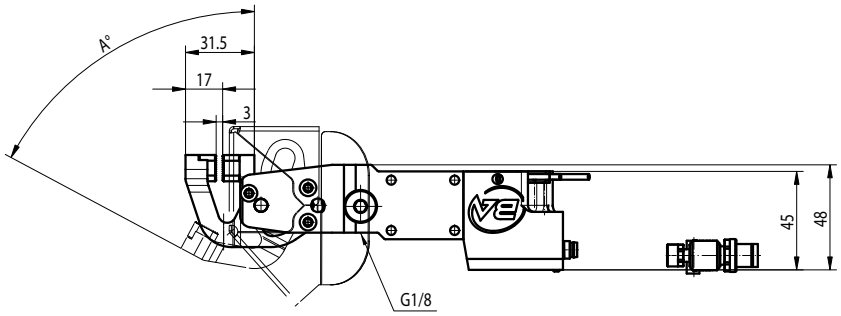
Option upper jaw / lower jaw / Sensor: Dimensions see separate data sheet

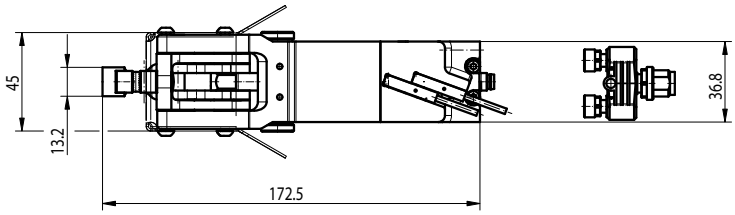
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Pneumatic clamp, PSBD-20-L-02-62-0-B1-B1-S3-WF







self-locking

Part no.	Aperture angle A°	Option of upper jaw	Option of lower jaw	Option Sensor	▮ (kg)
PSB-20-L-02-62-0-B1-B1-S3-WF	62	B1	B1	S3	0.666

Option upper jaw	Part no.
B1	B1-M4-8

Option lower jaw	Part no.
B1	B1-M4-8

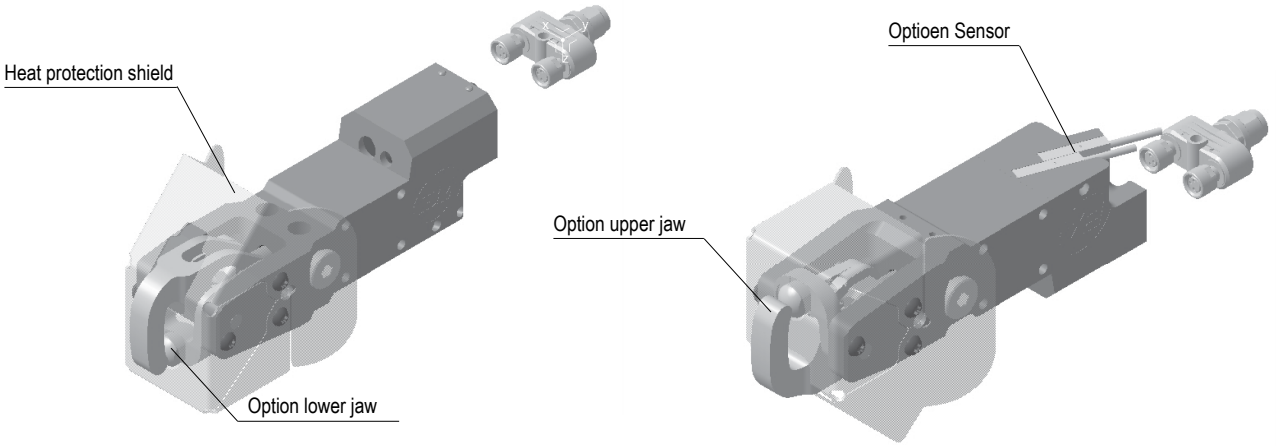
Option Sensor	Part no.
S3	DCCQ 05 M 1.5 PSK-K-TSL

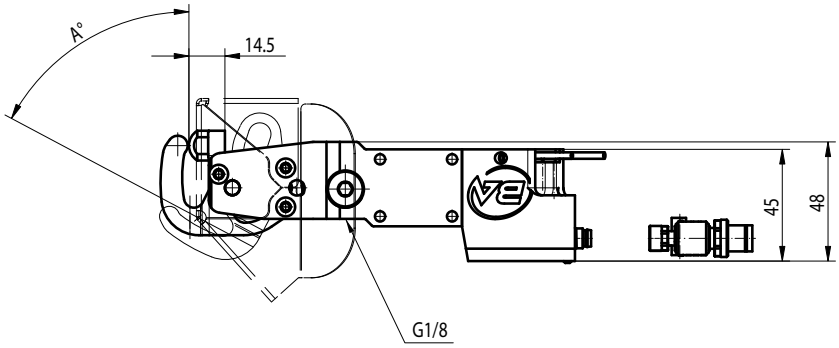
Option upper jaw / lower jaw / Sensor: Dimensions see separate data sheet

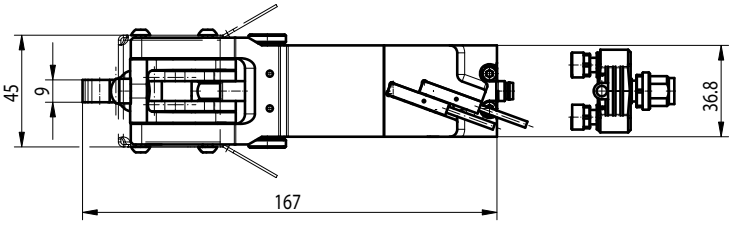
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Pneumatic clamp, PSBD-20-L-02-62-0-D1-K2-S3-WF







self-locking

Part no.	Aperture angle A°	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSBD-20-L-02-62-0-D1-K2-S3-WF	62	D1	K2	S3	0.656

Option lower jaw	Part no.
K2	K2-M4-8

Option Sensor	Part no.
S3	DCCQ 05 M 1.5 PSK-K-TSL

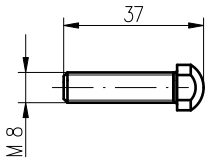
Option lower jaw / Sensor: Dimensions see separate data sheet

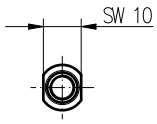
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Clamping pin





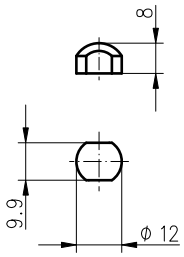


0.017 kg
Material: Steel

Part no.
SPD2-M8-37

Gripper jaw



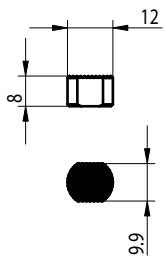


0.005 kg
Material: Steel

Part no.
K2-M4-8

Gripper jaw



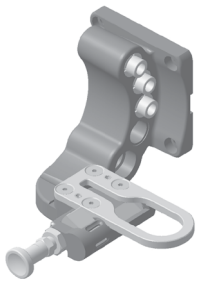


0.006 kg
Material: Steel

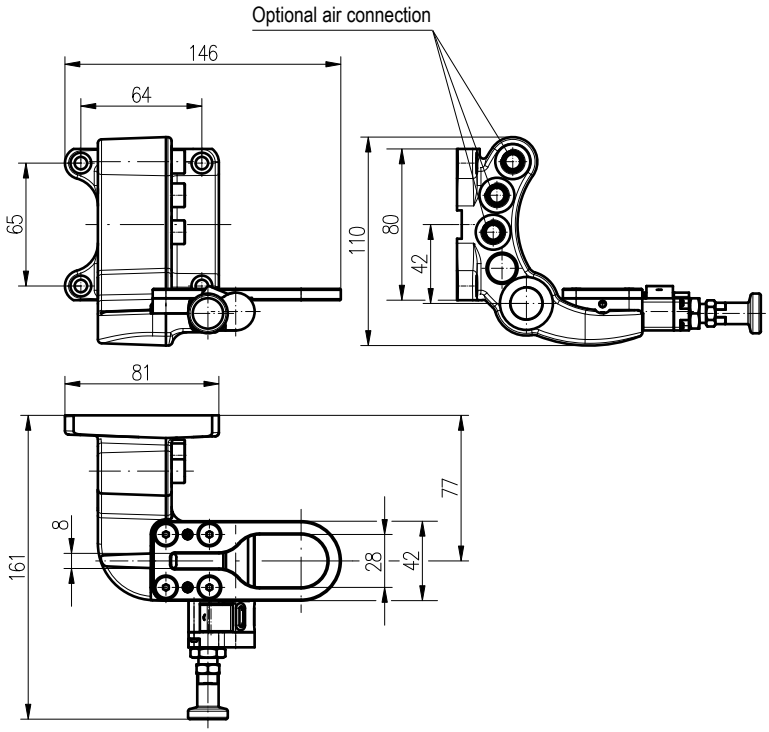
Part no.
B1-M4-8

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Coupling with locking + air (left), heat resistant

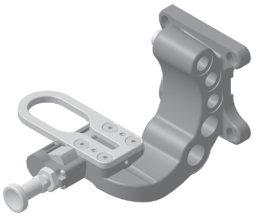


0.779 kg
Material: Aluminium / Steel

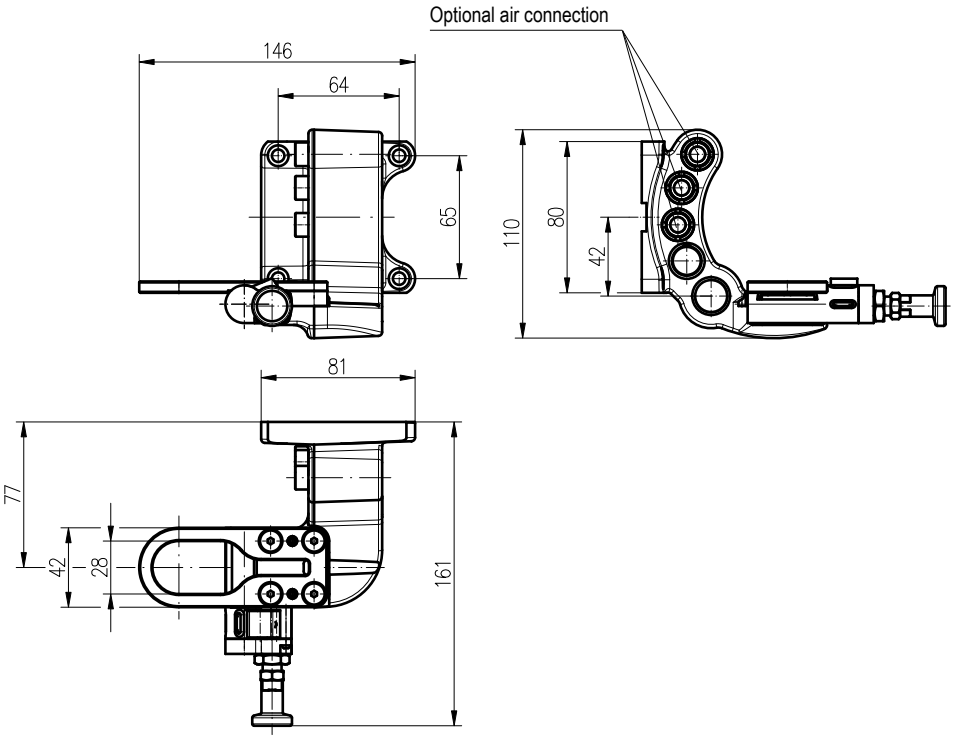


Part no.
CBF-AT-80-A3-G14-V-L-WF

Coupling with locking + air (right), heat resistant



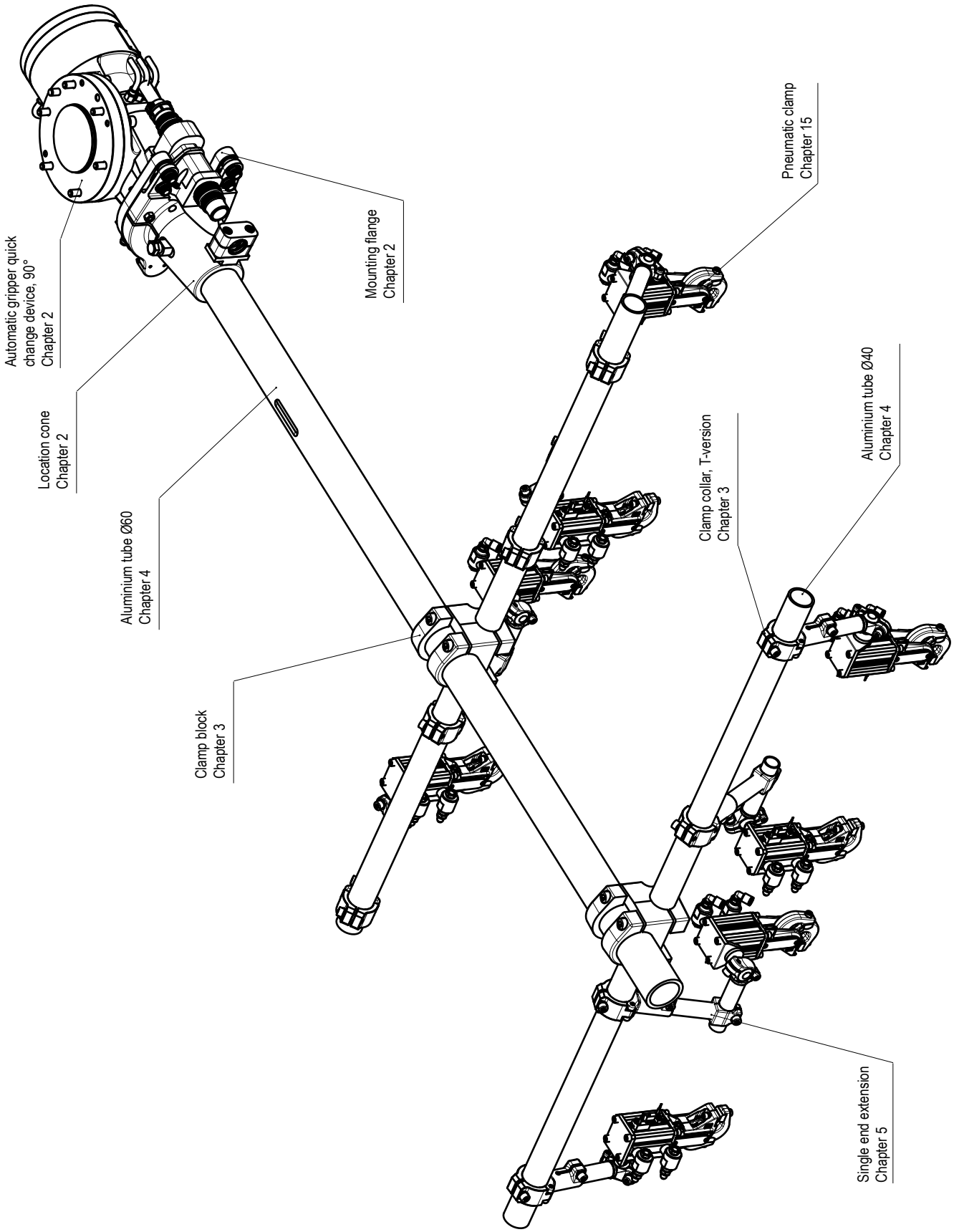
0.779 kg
Material: Aluminium / Steel



Part no.
CBF-AT-80-A3-G14-V-R-WF

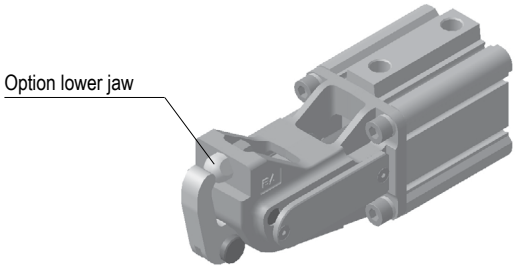
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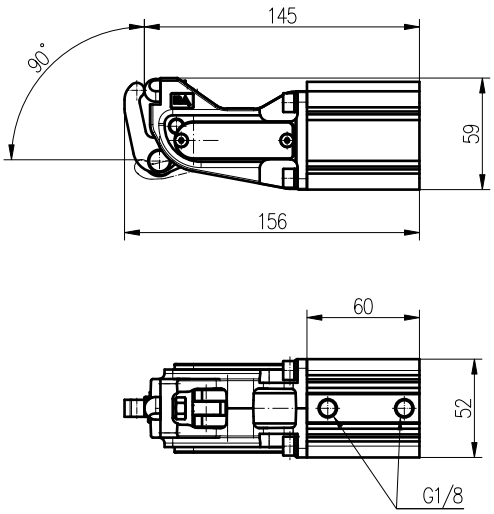
Hot forming components



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Pneumatic clamp, PSQ-40-L, high-temperature





Part no.	Aperture angle	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PSQ-40-L-90-D1-K1-WF	90°	D1 (Ball rocker)	K1	-	0.78

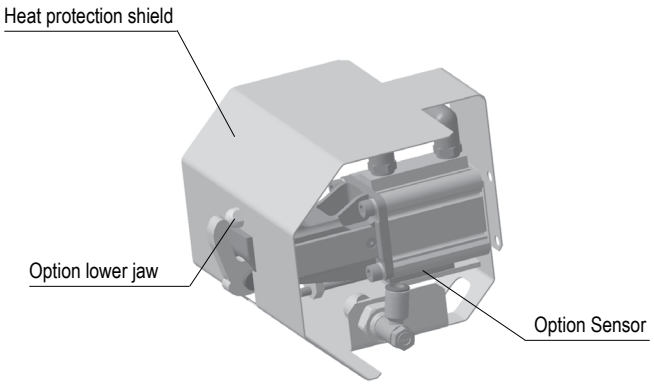
Option lower jaw	Part no.
K1	PSQ-40-L-P015

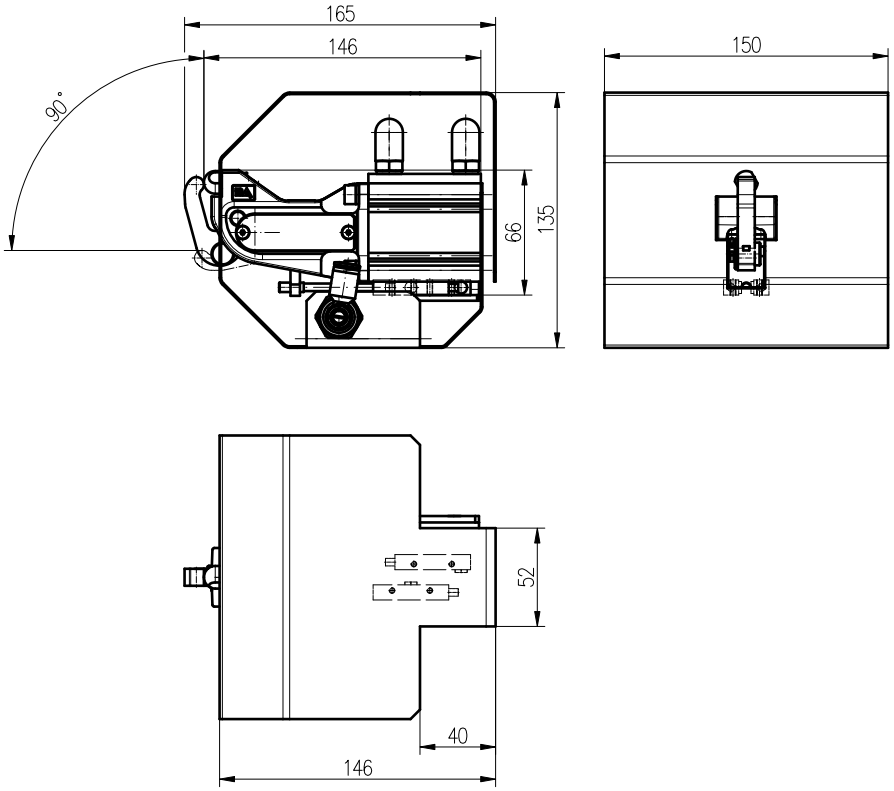
Option lower jaw / Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSQ-40-L, high-temperature





Part no.	Aperture angle°	Option of upper jaw	Option of lower jaw	Option sensor	(kg)
PSQ-40-L-90-D1-K1-WF-SCH-S	90°	D1 (Ball rocker)	K1	S	0.78

Option lower jaw	Part no.
K1	PSQ-40-L-P015

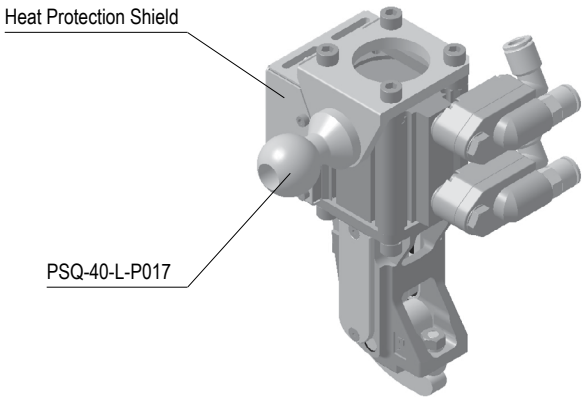
Option Sensor	Part no.
S	DCCQ 05 M 1.5 PSK-K-TSL

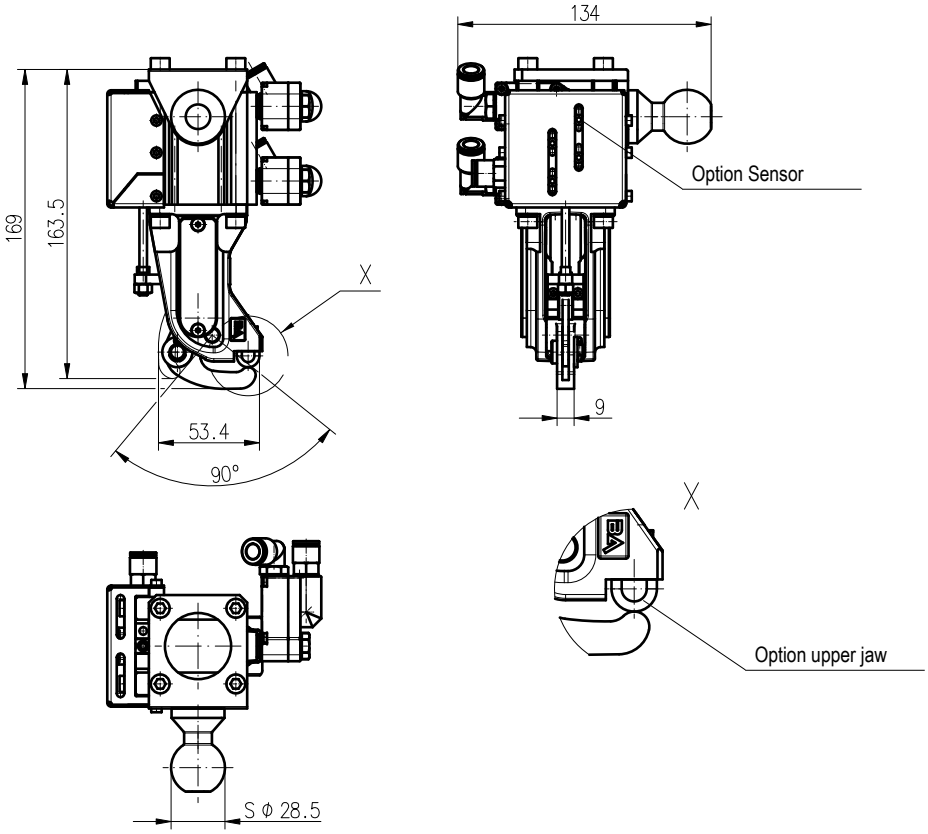
Option lower jaw / Sensor: Dimensions see separate data sheet

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Pneumatic clamp, PSQ-40-L, high-temperature





Part no.	Aperture angle	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PSQ-40-L-90-D1-K1-WF-SSB-S	90°	D1 (Ball rocker)	K1	S	1.52

Option lower jaw	Part no.
K1	PSQ-40-L-P015

Option Sensor	Part no.
S	DCCQ 05 M 1.5 PSK-K-TSL

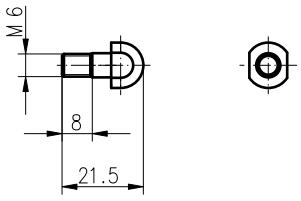
Option lower jaw / Sensor: Dimensions see separate data sheet

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Point-Clamping jaw for PSQ clamp

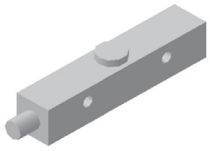


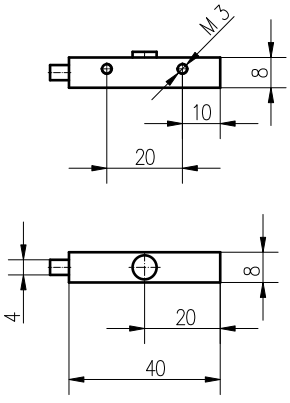


0.013 kg
Material: Steel

Part no.
PSQ-40-L-P015

Sensor



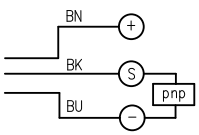


Part no.
DCQZ 08 M 1.5 PSLK

Electrical Data

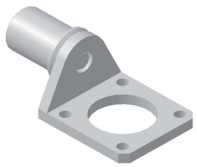
Operating principle	Inductive
Evalation	digital
Operating distance	1,5 mm
Supply voltage	10-35 V DC
Internal power consumption	< 6 mA
Operating frequency	2000 Hz
Hysteresis	3 ... 15 %
Voltage drop	< 2,0 V
Temperature range	-25 to 70° C
Insulation voltage endurance	500 V
Protection degree	IP67

Connection diagram



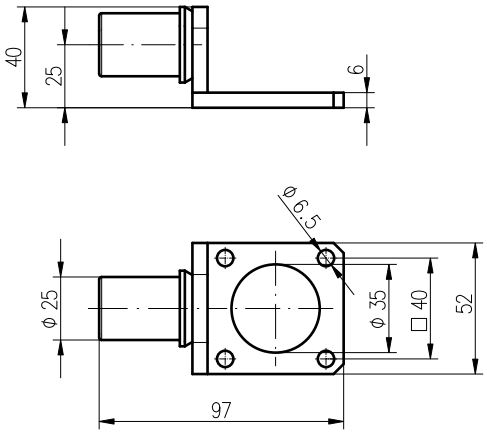
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Clamp mount for PSQ clamp



0.213 kg
Material: Steel

Part no.
PSQ-40-L-P011

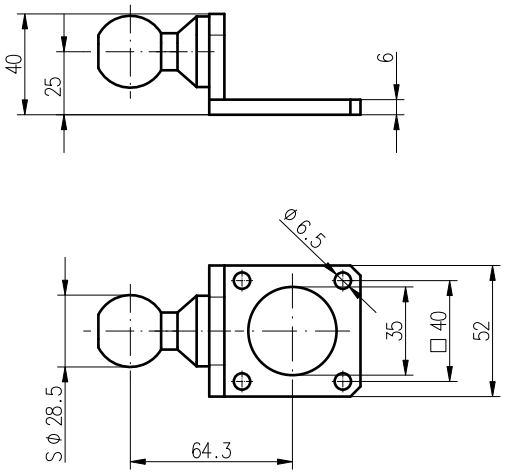


Clamp mount for PSQ clamp



0.274 kg
Material: Steel

Part no.
PSQ-40-L-P017

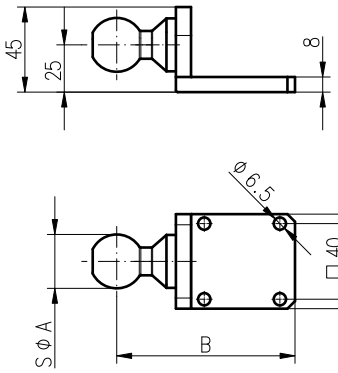


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Clamp mount for PSQ clamp

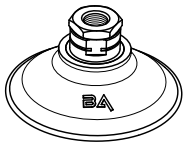
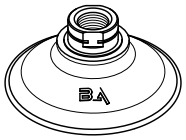
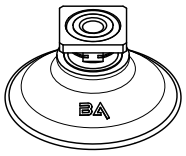
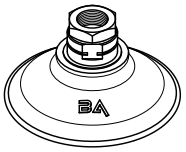
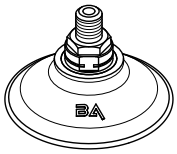
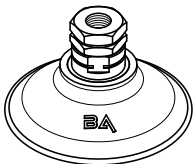
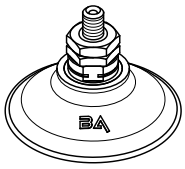
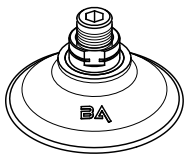
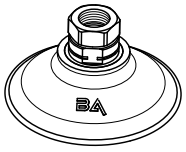


Material: Aluminium



Part no.	SØA	B	(kg)
PSQ-40-L-A-00-K28	28.5	91.3	0.138
PSQ-40-L-A-00-K32	32.0	94.3	0.153

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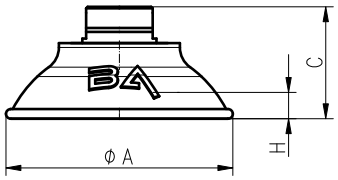
Connection Description		Mount
	G 1/4“ internal thread	A
	G 3/8“ internal thread	B
	C-Mount	C
	G 3/8“ internal thread with SW22 Jam nut with SW22 (height = 6mm)	F
	M10 male thread with SW22	K
	G 1/4“ internal thread with SW22 Jam nut with SW22 (height = 6mm)	G
	M10 male thread with SW22 Jam nut with SW22 (height = 6mm)	N
	G 3/8“ male thread with SW22 and plastic insert	P
	G 3/8“ internal thread with SW22 Jam nut with SW22 (height = 9mm)	X

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Flat foot cups, round





Part no.	Ø A	C	H	(kg)
30PF	29	31.5	2	0.076
50PF	51	32.0	7	0.082
80PF	84	35.0	8	0.101
100PF	101	42.0	10	0.132
125PF	127	45.0	12	0.205

Ordering information		e.g.: 75PF-B-WF2
Size	Mount	
↓	↓	↓
30PF	A	WF2** (black)
50PF	B	
80PF	C	
100PF	F	
125PF	K	
	P	
	X	

**High temperature resistent up to 250°C

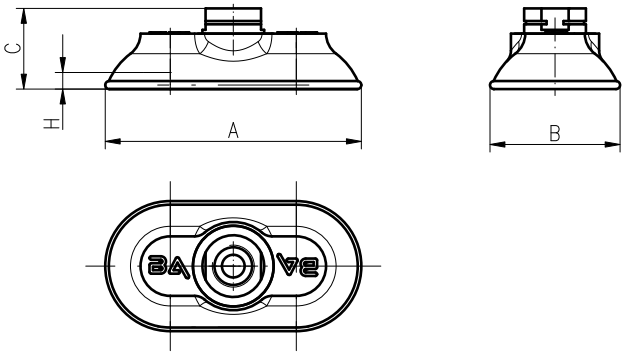
See page 562 for vacuum cup mounts

Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25° up to +250°
Shore hardness	70°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

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Flat foot cups, oval





Part no.	AxB	C	H	(kg)
50-15PF	49x15	34	2.3	0.021
60-30PF	64x34	28	3.5	0.013
75-40PF	75x40	32	4.5	0.048
100-50PF	100x50	32	6.0	0.069
110-55PF	114x59	30	5.5	0.067

Ordering information e.g.: 60-30PF-B-WF2

Size	Mount	Hardness in shore
↓	↓	↓
50-15PF	A	WF2** (black)
60-30PF	B	
75-40PF	C	
100-50PF	F	
110-55PF	K	
	P	
	X	

**High temperature resistent up to 250°C

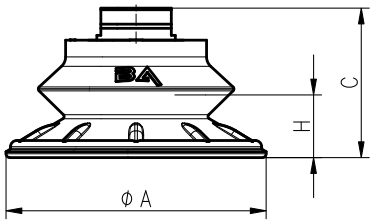
See page 562 for vacuum cup mounts

Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25° up to +250°
Shore hardness	70°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

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Traction cups, round





Part no.	Ø A	C	H	(kg)
60HT	59	53.6	11.5	0.062
90HT	89	53.0	22.0	0.057

Ordering information e.g.: 80HT-B-WF2

Size	Mount	Hardness in shore
↓	↓	↓
60HT	A	WF2** (black)
90HT	B	**High temperature resistent up to 250°C
	C	
	F	
	K	
	P	
	X	

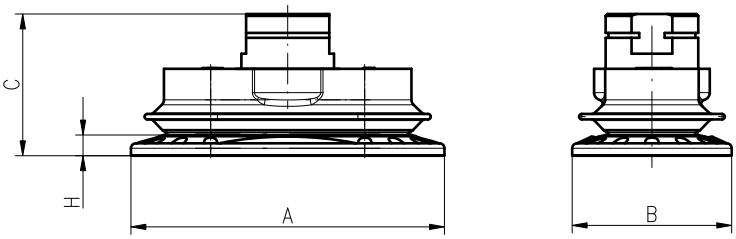
See page 562 for vacuum cup mounts

Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25° up to +250°
Shore hardness	70°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

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Traction cups, oval





Part no.	AxB	C	H	(kg)
80-40HT	82x41	36.5	9.5	0.048

Ordering information		e.g.: 80-40HT-B-WF2
Size	Mount	Hardness in shore
↓	↓	↓
80-40HT	A	WF2** (black)
	B	**High temperature resistent up to 250°C
	C	
	F	
	K	
	P	
	X	

See page 562 for vacuum cup mounts

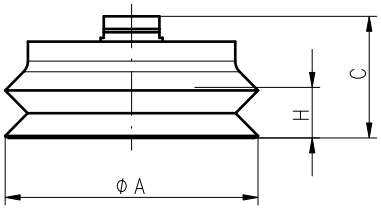
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25° up to +250°
Shore hardness	70°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

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Belcup, round





Part no.	Ø A	C	H	(kg)
30BT	30.5	40.0	12.6	0.010
40BT	41.5	36.0	10.0	0.038
50BT	53.0	48.5	19.5	0.061
75BT	75.0	48.5	18.0	0.093
100BT	100.0	48.0	18.5	0.160

Ordering information e.g.: 75BT-B-WF2

Size	Mount	Hardness in shore
↓	↓	↓
30BT	A	WF2** (black)
40BT	B	
50BT	C	
75BT	F	
100BT	K	
	P	
	X	

**High temperature resistent up to 250°C

See page 562 for vacuum cup mounts

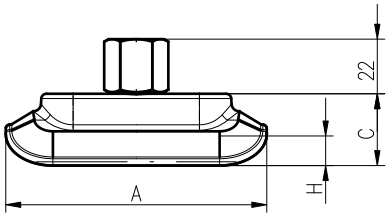
Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25° up to +250°
Shore hardness	70°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

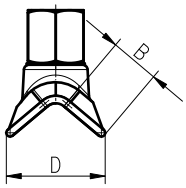
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Outer contour cup, oval







Part no.	A	B	C	D	H	▟ (kg)
50-15DM	50	15	17	23	10	0.074
75-20DM	72	20	20	25	12	0.081

Ordering information		e.g.: 75-20DM-B-WF2
Size	Mount*	Hardness in shore
↓	↓	↓
50-15DM	A	WF2** (black)
75-20DM	B	**High temperature resistent up to 250°C
	C	
	F	
	K	
	P	
	X	

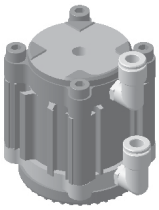
See page 562 for vacuum cup mounts

Material	NBR (Nitrilkautschuk)
max. allowable temperature	-25° up to +250°
Shore hardness	70°
Stablility	Ozone, draw and absorption oil, UVB-light, gas, ethanol

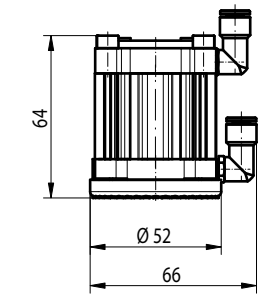
Subject to modification
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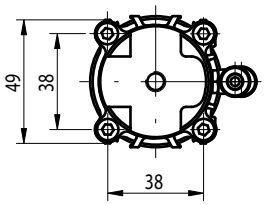
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Pneumatic magnet, high-temperature



0.414 kg
Material: Aluminium





Part no.
MA-40-M5-6S-WF

Technical Data

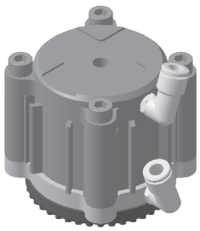
operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	140 N
max. holding force (2 mm Blank)	170 N
max. holding force (3 mm Bank)	200 N
Lateral force (2 mm Blank)	44 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 200°C

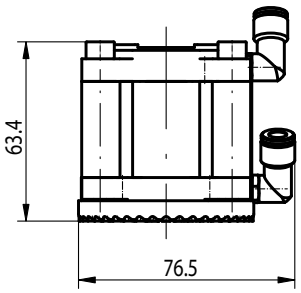
The holding forces stated are static specifications under optimal conditions
(mainly depending on material and surface condition).
Holding forces of magnets at 20° C; Use up to 200° C workpiece temperature possible.

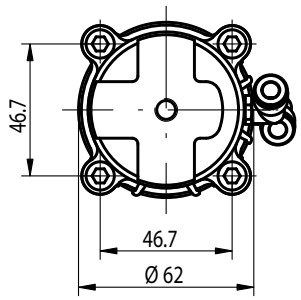
Attention:
under temperature influence the holding forces are declining by up to 30%

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Pneumatic magnet, high-temperature







0.515 kg
Material: Aluminium

Part no.
MA-50-M5-6S-WF

Technical Data

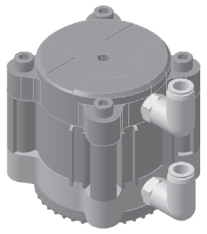
operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	177 N
max. holding force (2 mm Blank)	317 N
max. holding force (3 mm Bank)	327 N
Lateral force (2 mm Blank)	119 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 200°C

The holding forces stated are static specifications under optimal conditions
(mainly depending on material and surface condition).
Holding forces of magnets at 20° C; Use up to 200° C workpiece temperature possible.

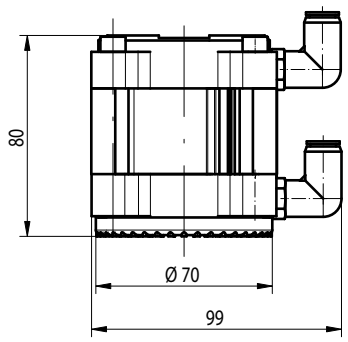
Attention:
under temperature influence the holding forces are declining by up to 30%

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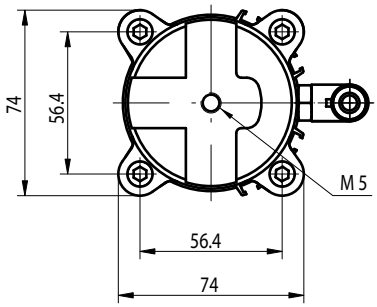
Pneumatic magnet, high-temperature



1.14 kg
Material: Aluminium



Part no.
MA-63-G18-6S-WF



Technical Data

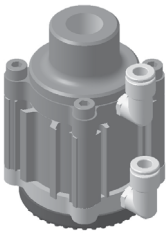
operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	270 N
max. holding force (2 mm Blank)	320 N
max. holding force (3 mm Bank)	340 N
Lateral force (2 mm Blank)	107 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 200°C

The holding forces stated are static specifications under optimal conditions
(mainly depending on material and surface condition).
Holding forces of magnets at 20° C; Use up to 200° C workpiece temperature possible.

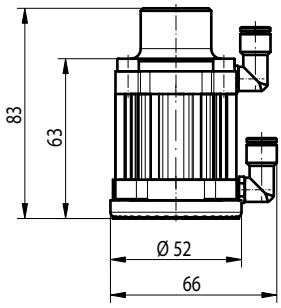
Attention:
under temperature influence the holding forces are declining by up to 30%

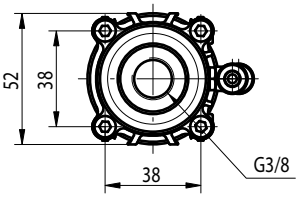
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Pneumatic magnet with 3/8 inch thread, high-temperature



0.706 kg
Material: Aluminium





Part no.
MA-40-M5-6S-G38i-WF

Technical Data

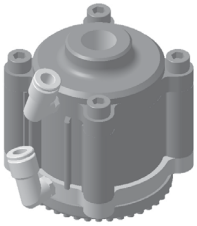
operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	140 N
max. holding force (2 mm Blank)	170 N
max. holding force (3 mm Bank)	200 N
Lateral force (2 mm Blank)	44 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 200°C

The holding forces stated are static specifications under optimal conditions
(mainly depending on material and surface condition).
Holding forces of magnets at 20° C; Use up to 200° C workpiece temperature possible.

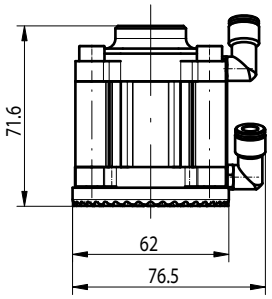
Attention:
under temperature influence the holding forces are declining by up to 30%

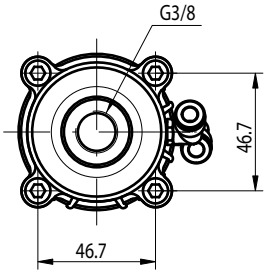
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Pneumatic magnet with 3/8 inch thread, high-temperature



0.534 kg
Material: Aluminium





Part no.
MA-50-M5-6S-G38i-WF

Technical Data

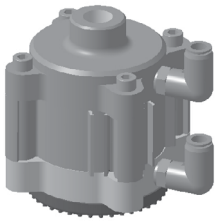
operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	177 N
max. holding force (2 mm Blank)	317 N
max. holding force (3 mm Bank)	327 N
Lateral force (2 mm Blank)	119 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 200°C

The holding forces stated are static specifications under optimal conditions
(mainly depending on material and surface condition).
Holding forces of magnets at 20° C; Use up to 200° C workpiece temperature possible.

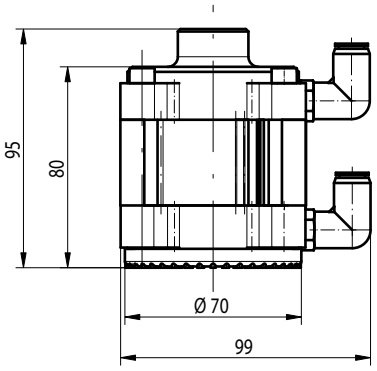
Attention:
under temperature influence the holding forces are declining by up to 30%

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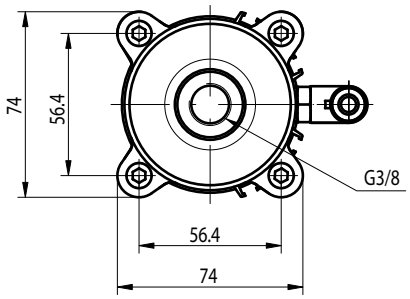
Pneumatic magnet with 3/8 inch thread, high-temperature



1.16 kg
Material: Aluminium



Part no.
MA-63-G18-6S-G38i-WF



Technical Data

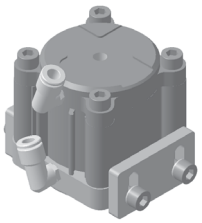
operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	270 N
max. holding force (2 mm Blank)	320 N
max. holding force (3 mm Bank)	340 N
Lateral force (2 mm Blank)	107 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 200°C

The holding forces stated are static specifications under optimal conditions
(mainly depending on material and surface condition).
Holding forces of magnets at 20° C; Use up to 200° C workpiece temperature possible.

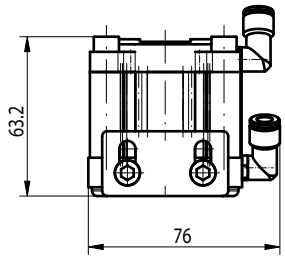
Attention:
under temperature influence the holding forces are declining by up to 30%

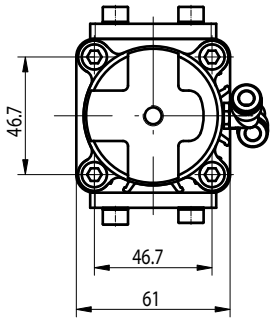
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Pneumatic magnet with lateral attachment, high-temperature



0.706 kg
Material: Aluminium





Part no.
MA-50-M5-6S-SF-WF

Technical Data

operating medium	Non-aggressive gases, Dry oil-free air
max. holding force (1 mm Blank)	177 N
max. holding force (2 mm Blank)	317 N
max. holding force (3 mm Bank)	327 N
Lateral force (2 mm Blank)	119 N
Residual holding force	< 0,3 N
operating pressure	1 to 6 bar
Ideal operating pressure	5 to 6 bar
switching vacuum	0.5 to 0.9 bar
Ideale switching vacuum	0,7 bar
Current type	bistabile
Ambient temperature	5 to 200°C

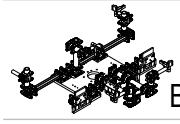
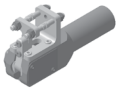
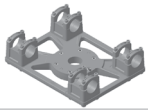
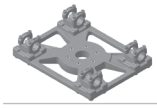
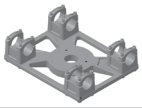
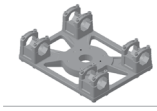
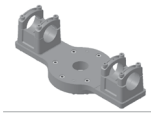
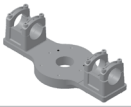
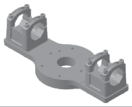
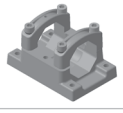
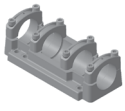
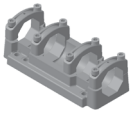
The holding forces stated are static specifications under optimal conditions
(mainly depending on material and surface condition).
Holding forces of magnets at 20° C; Use up to 200° C workpiece temperature possible.

Attention:
under temperature influence the holding forces are declining by up to 30%

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BODY SHOP

Body shop componente

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	Robot mount, round	587
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	Robot mount, octagon	588
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	Flange mount, split type, octagon	589
	Flange mount, split type, round	590
	Flange mount, split type, octagon	590
	Intermediate plate	591
	Eccentric ring	591

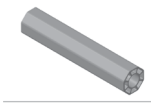
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Picture	Designation	Page
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	Parallel clamp, split type, round to octagon	592
	Parallel clamp, split type, octagon	592
	Parallel clamp, split type, round, non rotating	593
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	Clamp collar, T-version, split type, round to octagon	594
	Clamp collar, T-version, split type, octagon to round	595
	Clamp collar, T-version, split type, octagon	595
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	Clamp collar, T-version, split type, round to octagon	596
	Clamp collar, T-version, split type, non rotating	597
	Clamp collar, T-version, split type, non rotating, octagon to round	597
	Clamp collar, T-version, split type, octagon	598
	Clamp collar, T-version, split type, round	598

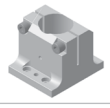
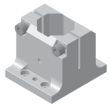
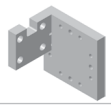
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Body shop componente

Picture	Designation	Page
	Clamp collar, T-version, split type, octagon to round	599
	Clamp collar, T-version, split type, octagon	599
	Clamp collar, T-version, split type, round	600
	Clamp block, split type, round to octagon	601
	Clamp block, split type, round to octagon	601
	Clamp block, split type, octagon	602
	Clamp block , T-version, split type, round to octagon, non rotating	602
	Clamp block , T-version, split type, round to octagon, non rotating	603
	Proximity switch mounts	603
	Clamp	604
	Clamp, octagon	604
	Aluminium tubing, octogan	605
	Plate for electric and pneumatic valves	606
	Plate for electric and pneumatic valves, octagon	606
	Flange mount, round	607
	Flange mount, octagon	607

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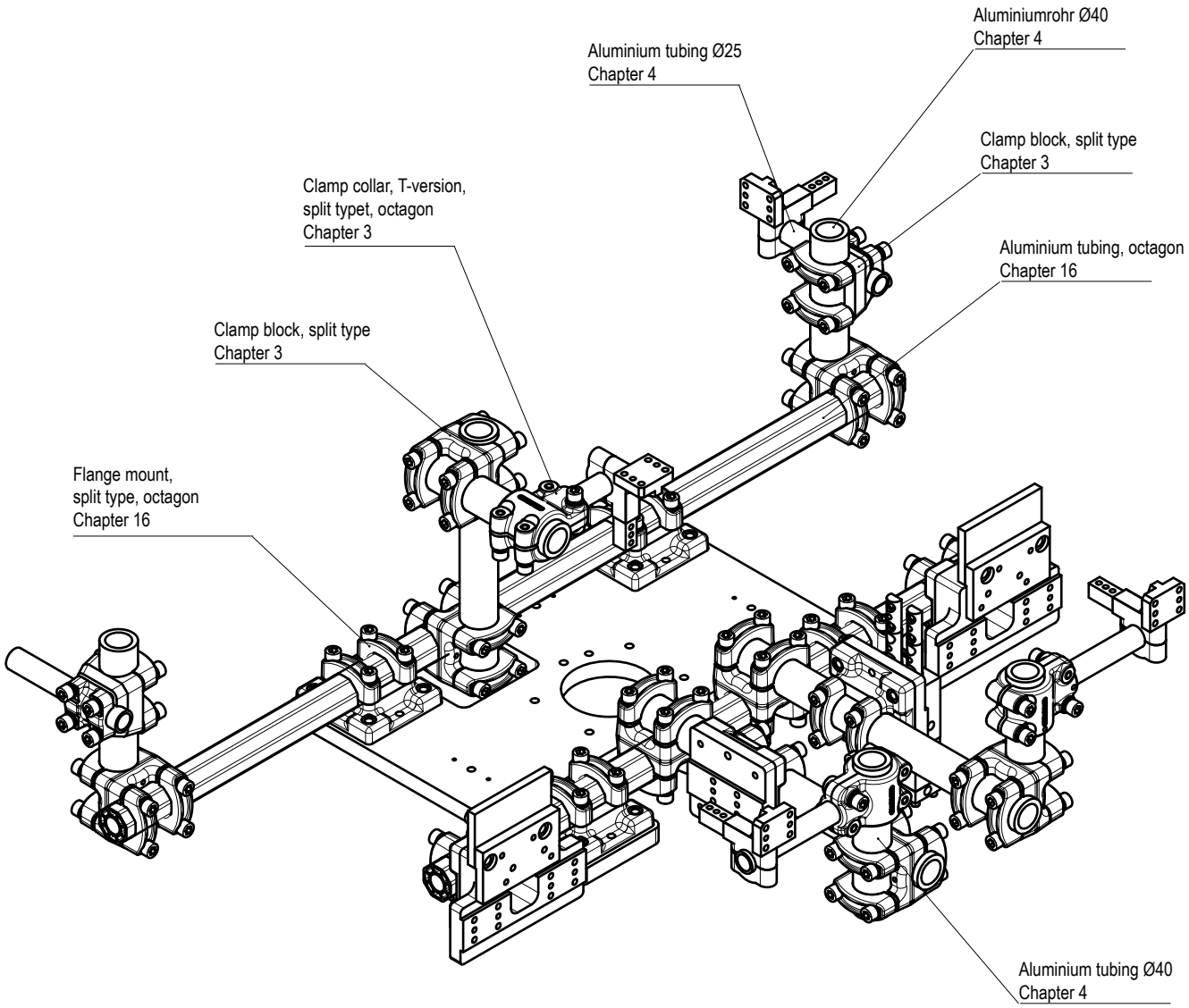
Picture	Designation	Page
	Flange mount, round	608
	Flange mount, octagon	608
	Angle for flange mounting	609
	Angle for flange mounting	609
	Centering pin	610

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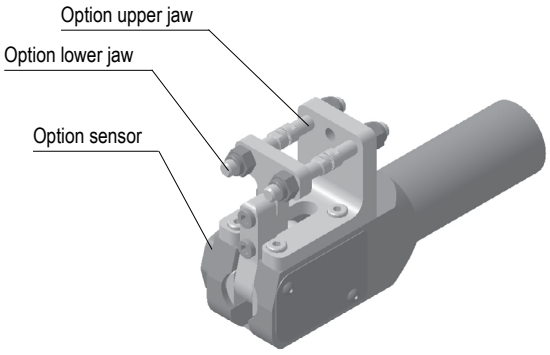
Body shop componente

Body shop gripper

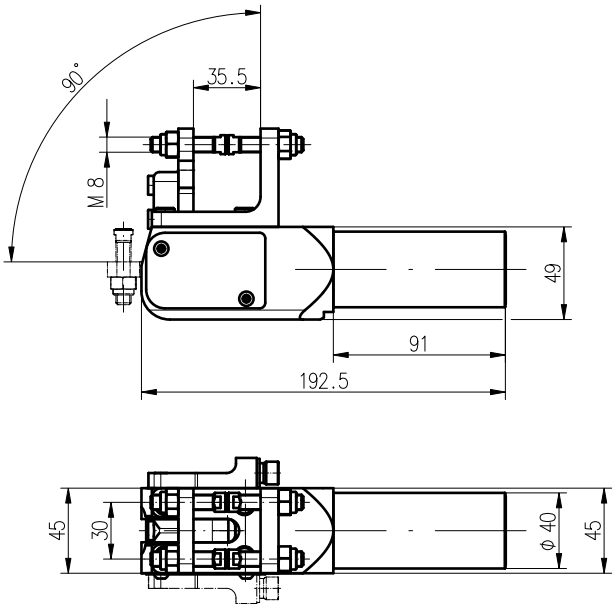


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Pneumatic clamp, PS-40-L-90-SP03-SP03



show: PS-40-L-90-SP03-SP03-SL



Part no.	Aperture angle	Option of upper jaw	Option of lower jaw	Option Sensor	(kg)
PS-40-L-90-SP03-SP03	90°	SP03	SP03	-	1.443
PS-40-L90-SP03-SP03-SL				S	
PS-40-L90-SP03-SP03-SR					

* with Sensor
SL-Sensor to the left
SR-Sensor to the right

Option upper jaw (clamping pin*)	Part no.
SP03	SP03-M8-40

Option lower jaw (clamping pin*)	Part no.
SP03	SP03-M8-40

Option Sensor	Part no.
S	A126305Q570111

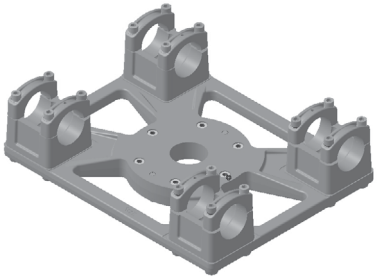
*Execution with other clamping pins on request
Option upper jaw / Option lower jaw / Option Sensor: Dimensions see separate data sheet

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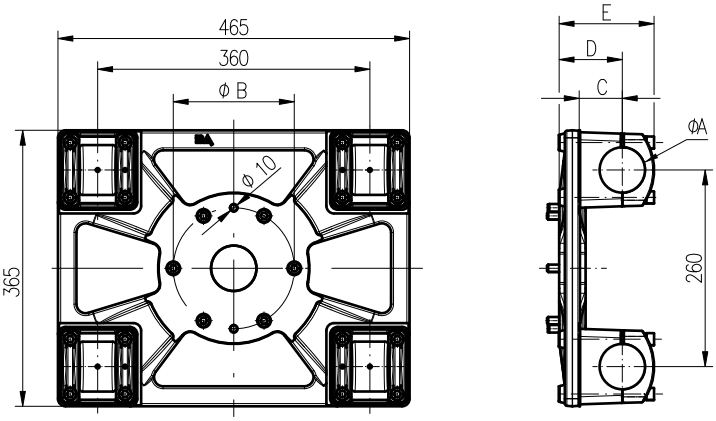
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Body shop componente

Robot mount, round

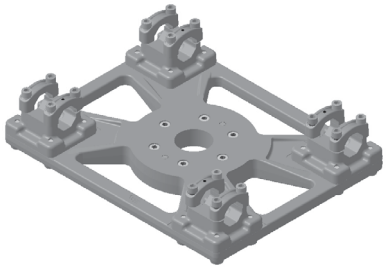


Material: Aluminium

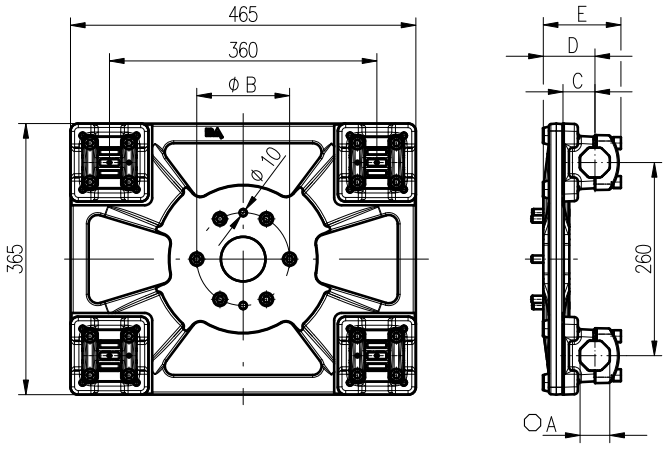


Part no.	Ø A	Ø B	C	D	E	(kg)	Robot model
PLR-D-40-125-A	40	125	62	69.5	104.5	11.71	ABB IRB-6400
PLR-D-40-160-A	40	125	62	69.5	104.5	11.71	KUKA 760
PLR-D-60-125-A	60	160	76	83.5	125.5	12.89	ABB IRB 6400
PLR-D-60-160-A	60	160	76	83.5	125.5	12.89	KUKA 760
PLR-D-40-*-A	40	-	62	69.5	104.5	11.71	**
PLR-D-60-*-A	60	-	76	83.5	125.5	12.89	**

Robot mount, octagon



Material: Aluminium

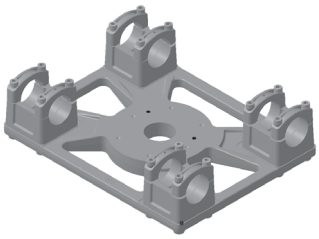


Part no.	⬡A	Ø B	C	D	E	(kg)	Robot model
PLR-D-8K40-125-A	40	125	43	69.5	104.5	11.71	ABB IRB-6400
PLR-D-8K40-160-A	40	125	43	69.5	104.5	11.71	KUKA 760
PLR-D-8K60-125-A	60	160	57	83.5	125.5	12.89	ABB IRB 6400
PLR-D-8K60-160-A	60	160	57	83.5	125.5	12.89	KUKA 760
PLR-D-8K40-*-A	40	-	43	69.5	104.5	11.71	**
PLR-D-8K60-*-A	60	-	57	83.5	125.5	12.89	**

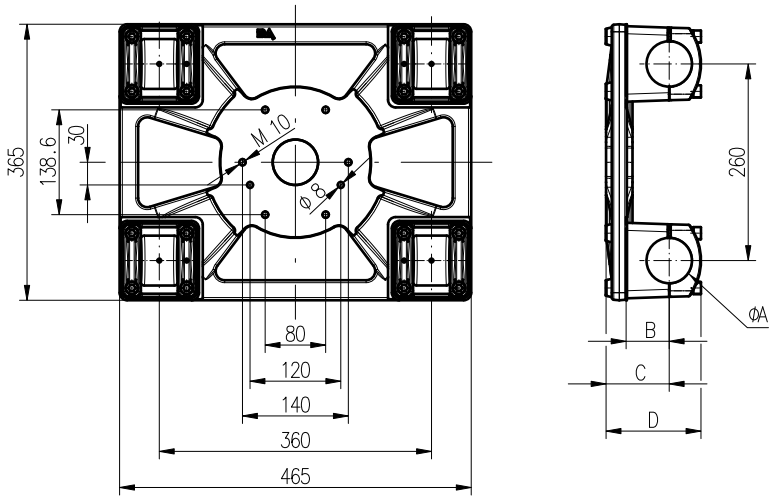
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Robot mount, round

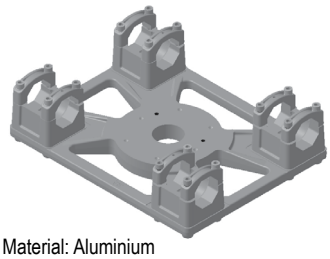


Material: Aluminium

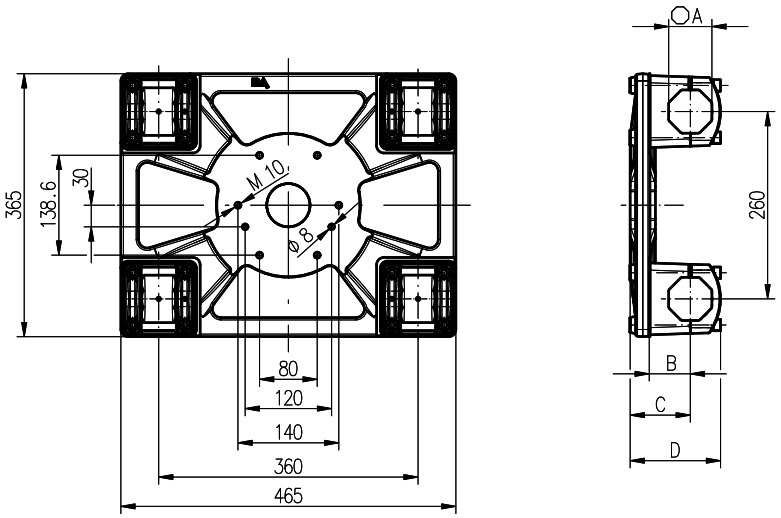


Part no.	ØA	B	C	D	(kg)
PLR-D-40-59D323327	40	42	69.5	104.5	12.74
PLR-D-60-59D323327	60	57	83.5	125.5	12.66

Robot mount, octagon



Material: Aluminium



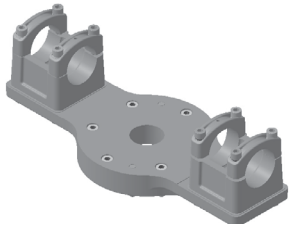
Part no.	⬡A	B	C	D	(kg)
PLR-D-8K40-59D323327	40	42	69.5	104.5	12.74
PLR-D-8K60-59D323327	60	57	83.5	125.5	12.66

Subject to modification
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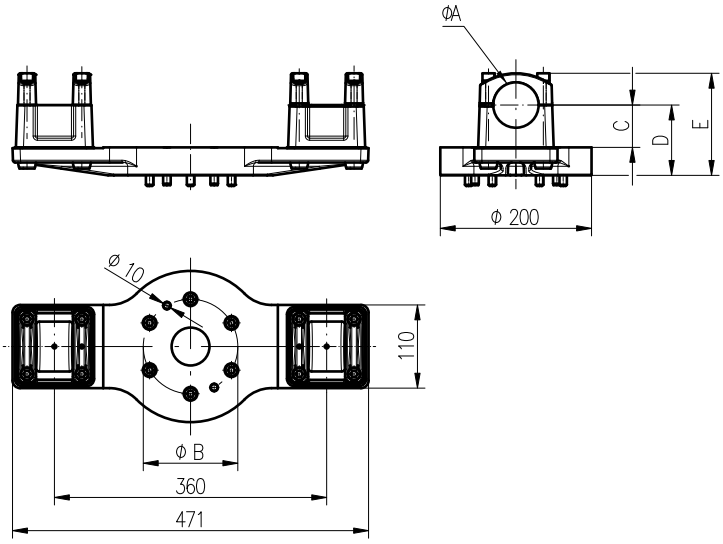
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Body shop componente

Robot mount, round

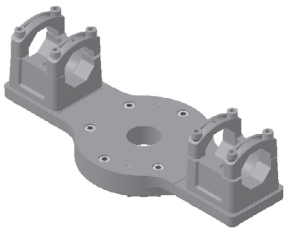


Material: Aluminium

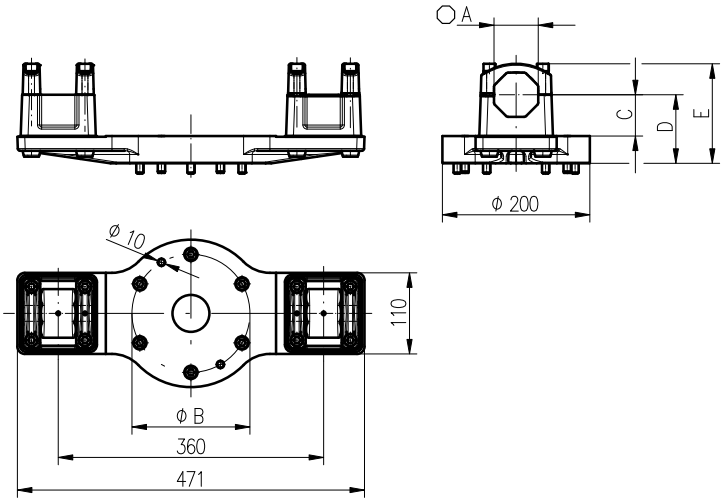


Part no.	A	Ø B	C	D	E	(kg)	Robot model
PLR-E-40-125-A	40	125	42	79	114	6.65	ABB IRB-6400
PLR-E-40-160-A	40	125	42	79	114	6.65	KUKA 760
PLR-E-60-125-A	60	160	56	93	135	7.24	ABB IRB 6400
PLR-E-60-160-A	60	160	56	93	135	7.24	KUKA 760
PLR-E-40-*-A	40	-	42	79	114	6.65	**
PLR-E-60-*-A	60	-	56	93	135	7.24	**

Robot mount, octagon



Material: Aluminium

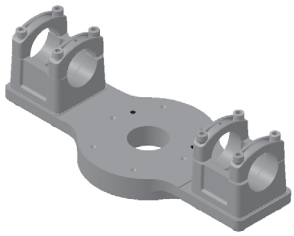


Part no.	⬡A	Ø B	C	D	E	(kg)	Robot model
PLR-E-8K40-125-A	40	125	42	79	114	6.65	ABB IRB-6400
PLR-E-8K40-160-A	40	125	42	79	114	6.65	KUKA 760
PLR-E-8K60-125-A	60	160	56	93	135	7.24	ABB IRB 6400
PLR-E-8K60-160-A	60	160	56	93	135	7.24	KUKA 760
PLR-E-8K40-*-A	40	-	42	79	114	6.65	**
PLR-E-8K60-*-A	60	-	56	93	135	7.24	**

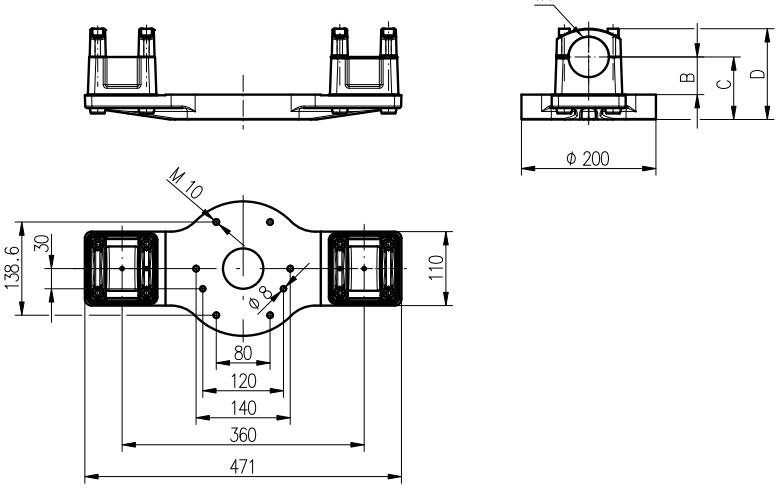
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Robot mount, round

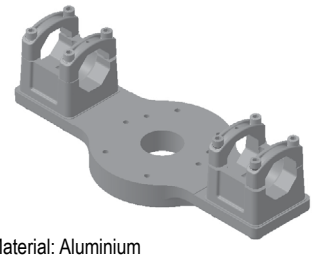


Material: Aluminium

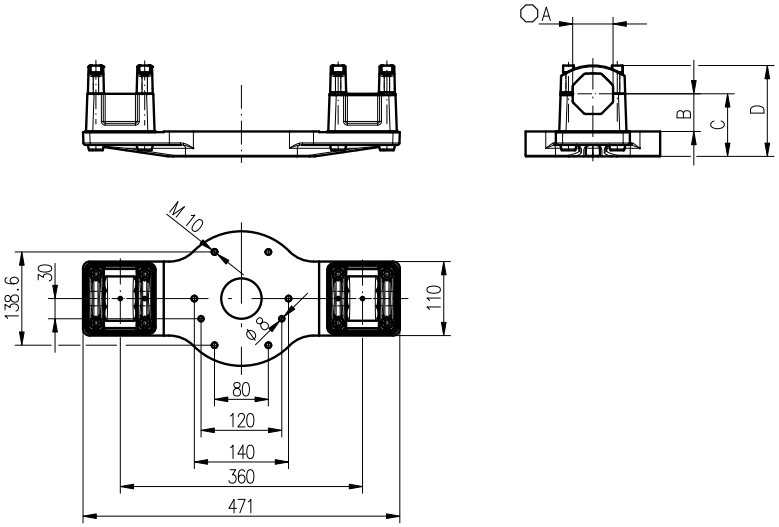


Part no.	ØA	B	C	D	(kg)
PLR-D-40-59D323327	40	42	79	114	6.36
PLR-D-60-59D323327	60	56	83	135	6.98

Robot mount, octagon



Material: Aluminium



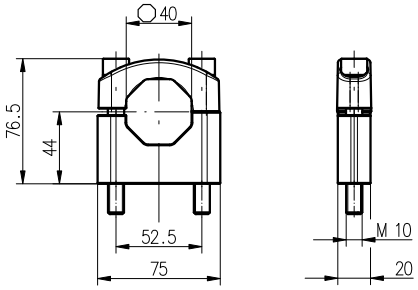
Part no.	⬡A	B	C	D	(kg)
PLR-D-8K40-59D323327	40	42	79	114	6.35
PLR-D-8K60-59D323327	60	56	83	135	6.94

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Flange mount, split type, octogan

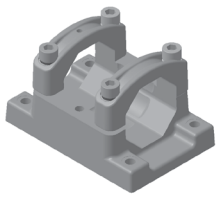


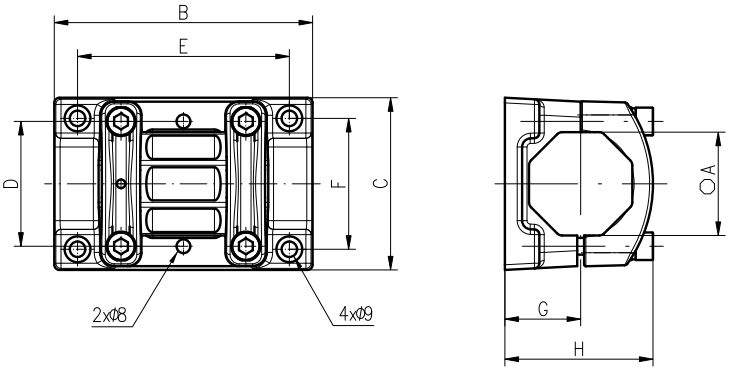


0.306 kg
Material: Aluminium

Part no.
GFAR-8K40-75-20-01

Flange mount, split type, octagon



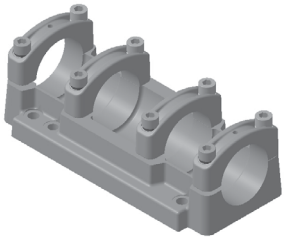


Material: Aluminium

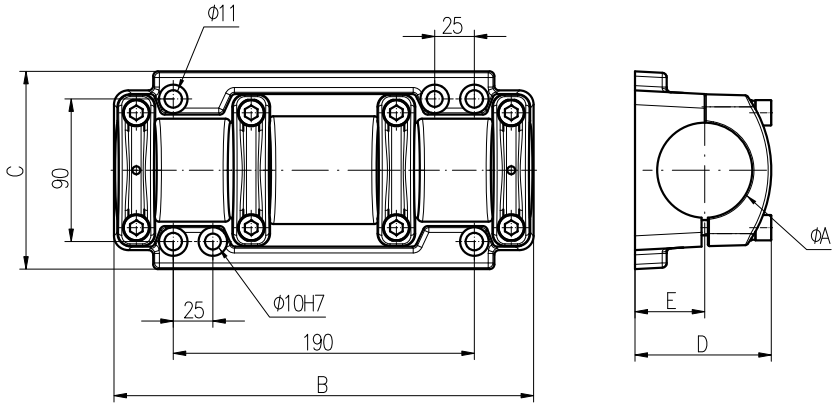
Part no.	⬡A	B	C	D	E	F	G	H	(kg)
GFAR-8K40-110	40	110	110	90.0	80	80	31	66	0.74
GFAR-8K60-150	60	150	100	72.5	123	76	44	87	1.06

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Flange mount, split type, round

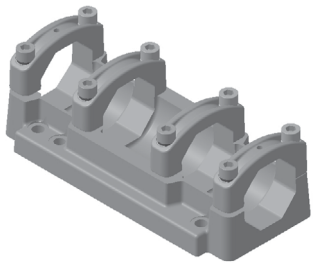


Material: Aluminium

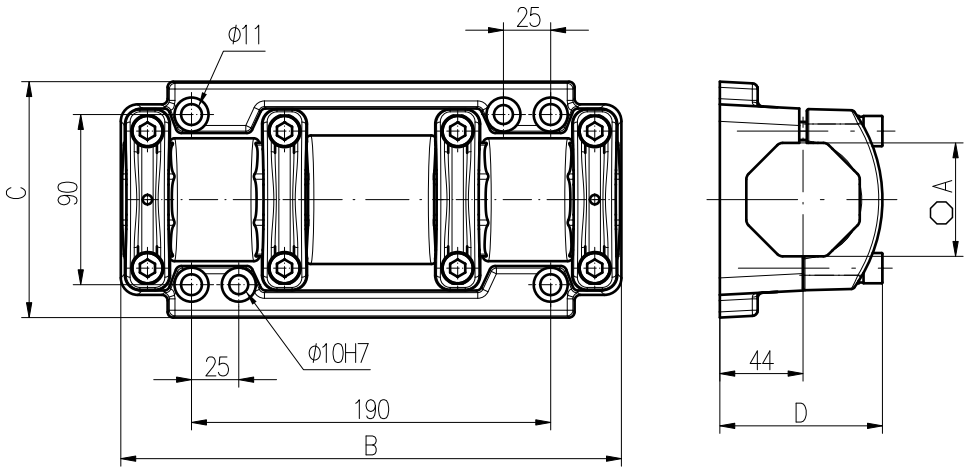


Part no.	Ø A	B	C	D	E	(kg)
GFAR-40-220-C	40	220	120	66	31	1.63
GFAR-60-265-A	60	265	125	85	44	2.50

Flange mount, split type, octagon



Material: Aluminium

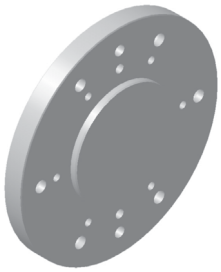


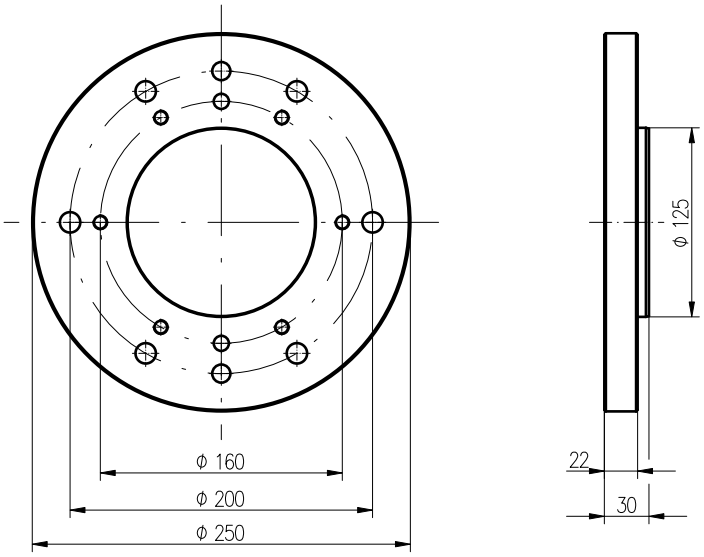
Part no.	⬡A	B	C	D	E	(kg)
GFAR-8K40-220-C	40	220	120	66	31	1.61
GFAR-8K60-265-A	60	265	125	85	44	2.46

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Intermediate plate



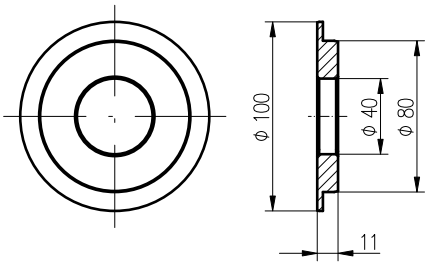


0.174 kg
Material: Aluminium

Part no.	Robot model
KA760-FA-M900-260L	FANUC M900iA/260L

Eccentric ring



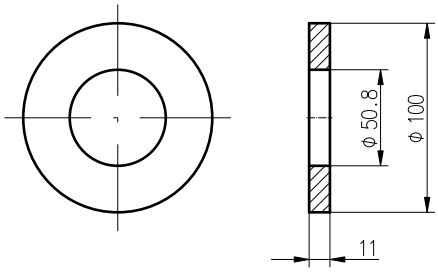


0.135 kg
Material: Aluminium

Part no.	Robot model
FA430-01	FANUC S-430
	ABB IRB 6400

Eccentric ring





0.174 kg
Material: Aluminium

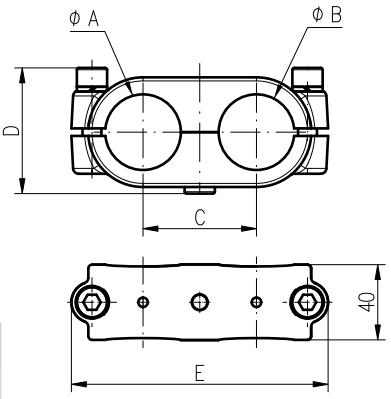
Part no.	Robot model
KA760-4	KUKA 760

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Parallel clamp, split type, round



Material: Aluminium

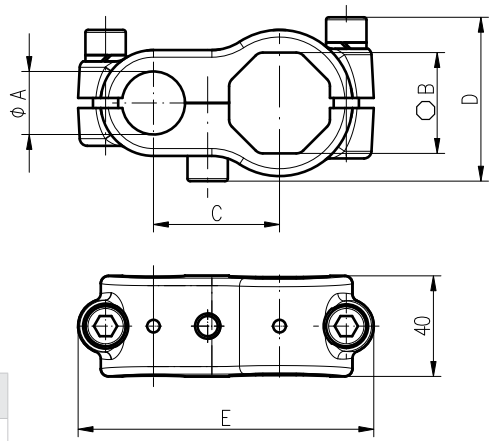


Part no.	Ø A	Ø B	C	D	E	(kg)
PKR-25-25	25	25	43	60.0	103	0.34
PKR-25-40	25	40	50	65.0	118	0.39
PKR-40-40	40	40	60	66.5	136	0.48

Parallel clamp, split type, round to octagon

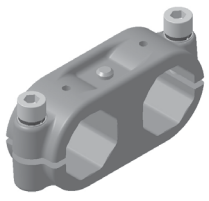


Material: Aluminium

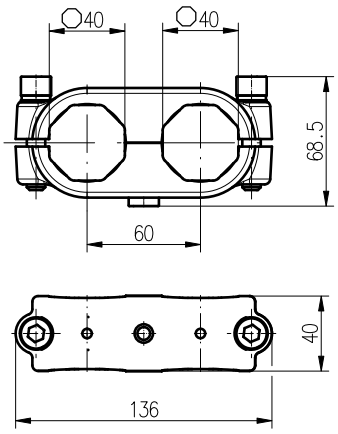


Part no.	Ø A	⬡B	C	D	E	(kg)
PKR-25-8K40	25	40	50	65.0	118	0.38
PKR-40-8K40	40	40	60	66.5	136	0.47

Parallel clamp, split type, octagon



0.45 kg
Material: Aluminium



Part no.
PKR-8K40-8K40

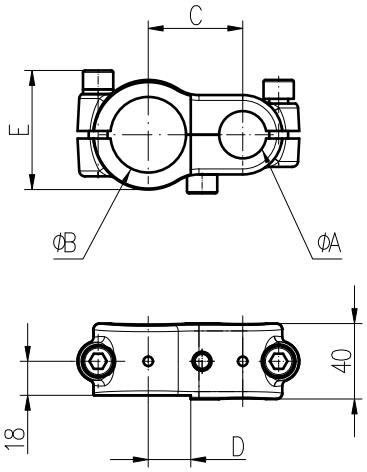
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Parallel clamp, split type, round, non rotating

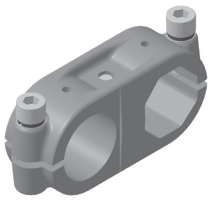


Material: Aluminium

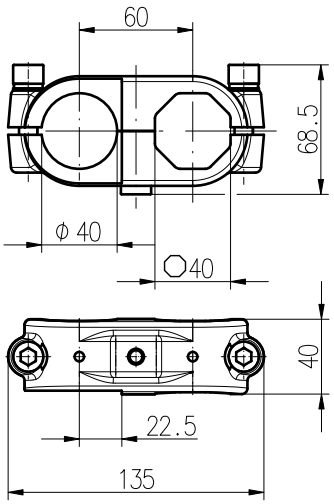


Part no.	Ø A	Ø B	C	D	E	(kg)
PKR-25-40-PS	25	40	50	22.5	65	0.45
PKR-30-25-PS	30	25	45	17.5	64.5	0.45
PKR-30-40-PS	30	40	55	17.5	69.5	0.45
PKR-40-40-PS	40	40	60	22.5	66.5	0.45

Parallel clamp, split type, octagon / round, non rotating



0.45 kg
Material: Aluminium



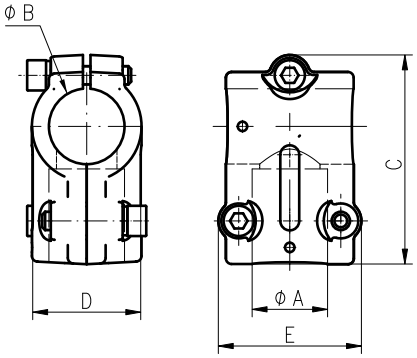
Part no.
PKR-40-8K40-PS

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Clamp collar, T-version, split type, round

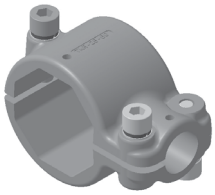


Material: Aluminium

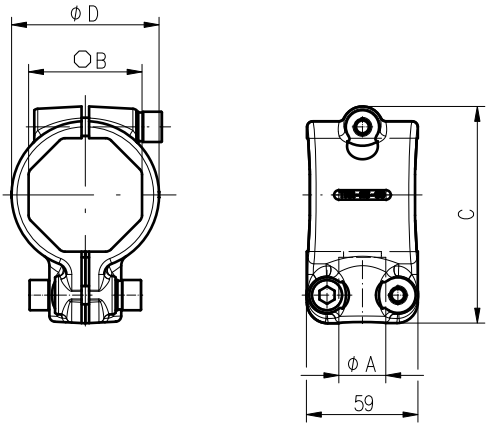


Part no.	Ø A	Ø B	C	D	E	(kg)
TKR-25-25	25	25	78	38	39.5	0.26
TKR-25-25-A	25	25	128	38	60.0	0.38
TKR-25-60	25	60	115	78	59.0	0.49
TKR-40-25	40	25	103	56	76.0	0.45
TKR-40-40	40	40	111	58	76.0	0.56

Clamp collar, T-version, split type, round to octagon



Material: Aluminium

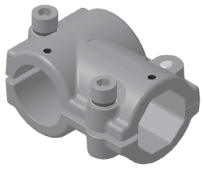


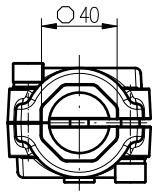
Part no.	Ø A	B	C	D	E	(kg)
TKR-25-8K60	25	60	115	78	59.0	0.47
TKR-40-8K40	40	40	111	58	76.0	0.54

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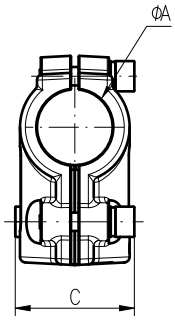
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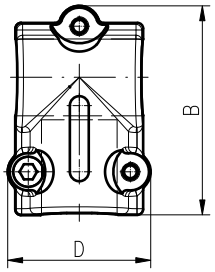
Clamp collar, T-version, split type, octagon to round





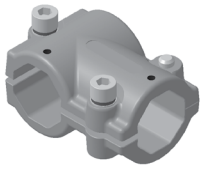
Material: Aluminium

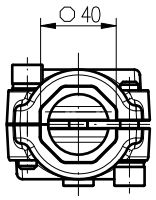




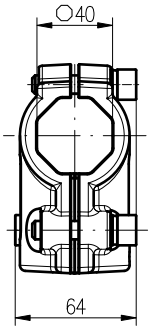
Part no.	Ø A	B	C	D	(kg)
TKR-8K40-25	25	103	56	76.0	0.46
TKR-8K40-40	40	111	58	76.0	0.55

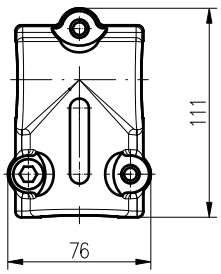
Clamp collar, T-version, split type, octagon





0.56 kg
Material: Aluminium

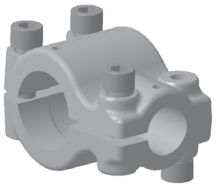




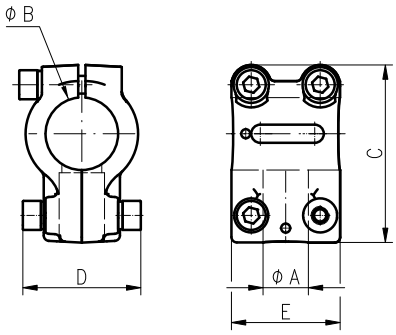
Part no.
TKR-8K40-8K40

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Clamp collar, T-version, split type, round



Material: Aluminium

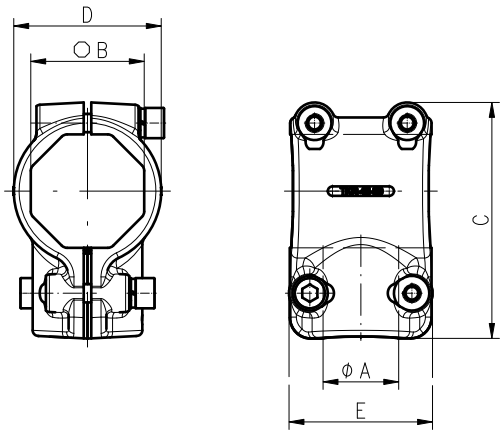


Part no.	Ø A	Ø B	C	D	E	(kg)
TKR-25-40	25	40	97	64	60	0.46
TKR-40-60	40	60	125	78	76	0.72

Clamp collar, T-version, split type, round to octagon



Material: Aluminium

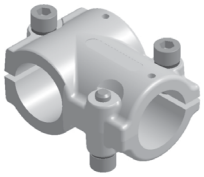


Part no.	Ø A	⬡ B	C	D	E	(kg)
TKR-25-8K40	25	40	98	65	60	0.46
TKR-40-8K60	40	60	125	78	76	0.70

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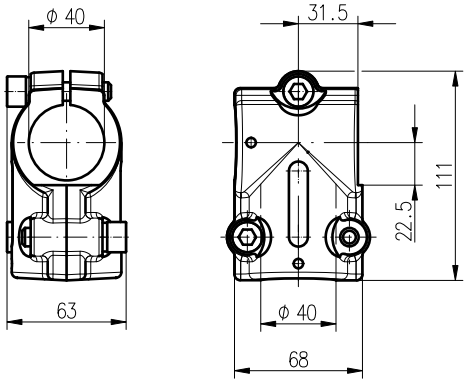
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Clamp collar, T-version, split type, non rotating



0.477 kg
Material: Aluminium

Part no.
TKR-40-40-PS

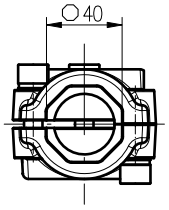


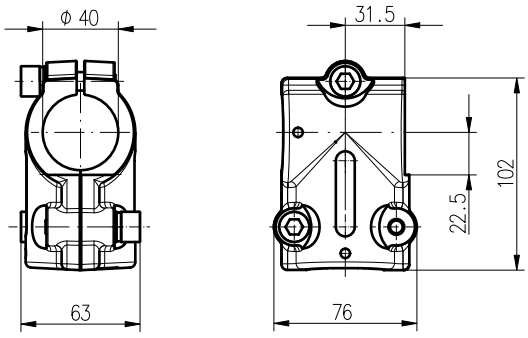
Clamp collar, T-version, split type, non rotating, octagon to round



0.533 kg
Material: Aluminium

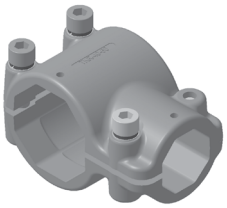
Part no.
TKR-8K40-40-PS

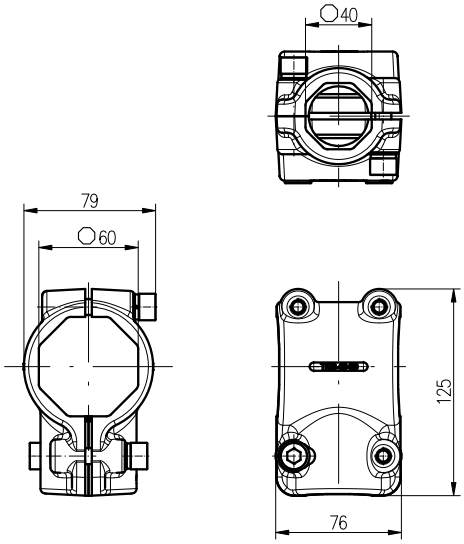




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Clamp collar, T-version, split type, octagon

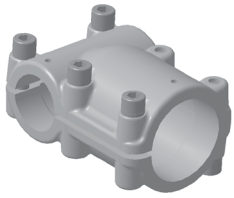




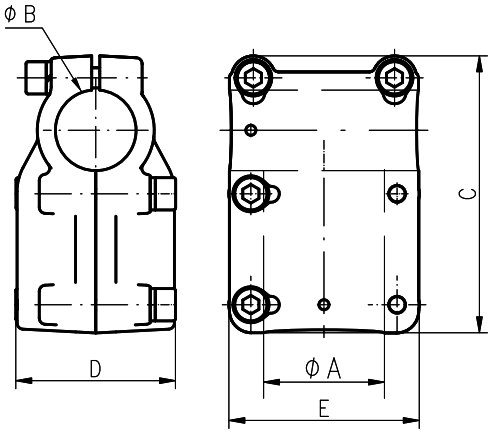
0.69 kg
Material: Aluminium

Part no.
TKR-8K40-8K60

Clamp collar, T-version, split type, round



Material: Aluminium



Part no.	Ø A	Ø B	C	D	E	w(kg)
TKR-60-25	60	25	125	79	94	0.93
TKR-60-40	60	40	137	78	94	1.01
TKR-60-60	60	60	160	79	94	1.18

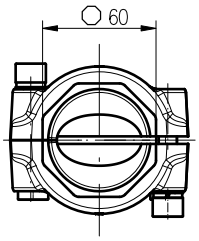
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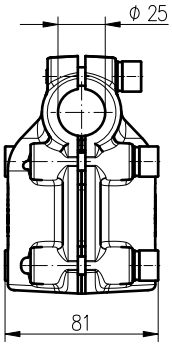
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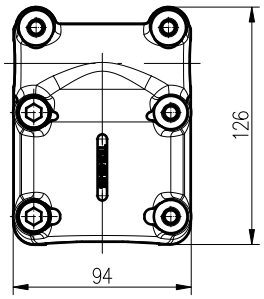
Clamp collar, T-version, split type, octagon to round



0.91 kg
Material: Aluminium

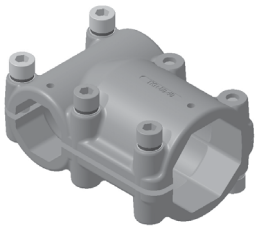




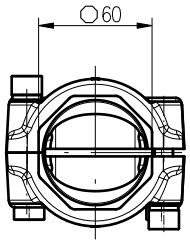


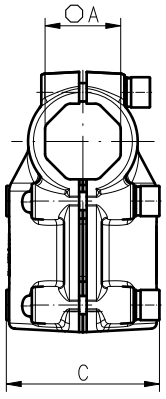
Part no.
TKR-8K60-25

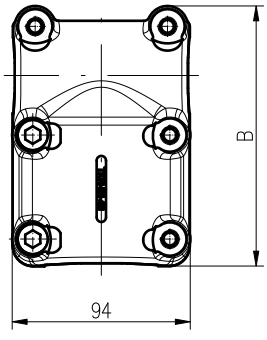
Clamp collar, T-version, split type, octagon



Material: Aluminium



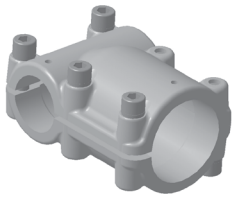




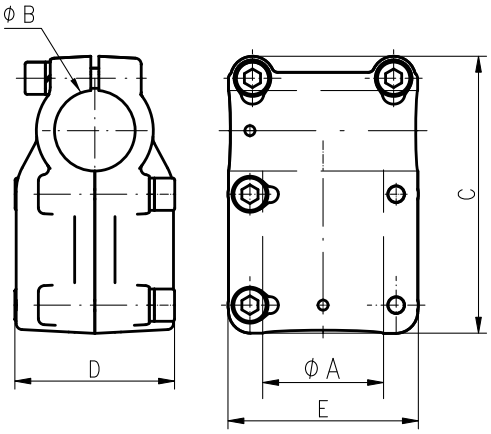
Part no.	A	B	C	(kg)
TKR-8K60-8K40	40	137	78	0.99
TKR-8K60-8K60	60	160	79	1.14

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Clamp collar, T-version, split type, round



Material: Aluminium

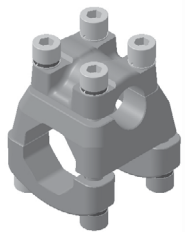


Part no.	Ø A	Ø B	C	D	E	w(kg)
TKR-25-40-A	25	40	148	64	60	0.67
TKR-60-25	60	25	125	79	94	0.93
TKR-60-40	60	40	137	78	94	1.01
TKR-60-60	60	60	160	79	94	1.18

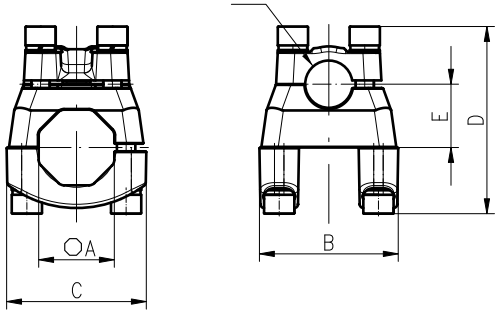
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Clamp block, split type, round to octagon

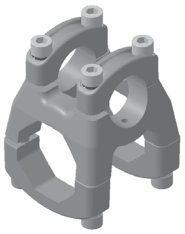


Material: Aluminium

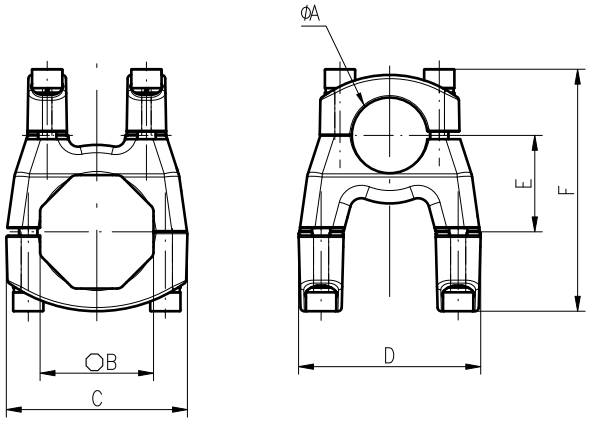


Part no.	⬡A	B	C	D	E	(kg)
KLR-25-8K40	25	73	74	99	33.5	0.65
KLR-25-8K60	40	96	96	118	45.5	0.96

Clamp block, split type, round to octagon



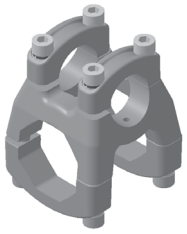
Material: Aluminium



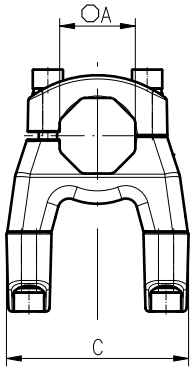
Part no.	ØA	⬡B	C	D	E	F	(kg)
KLR-40-8K40	40	40	76	76	41	111	0.79
KLR-40-8K60	40	60	96	96	51	128	1.02
KLR-60-8K60	60	60	100	100	61	145	1.35

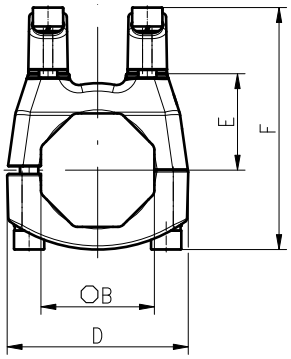
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Clamp block, split type, octagon



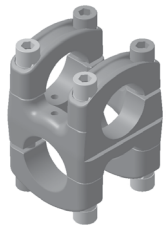
Material: Aluminium



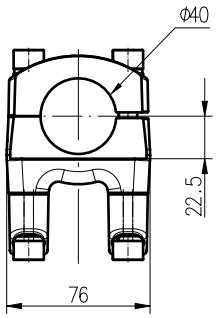


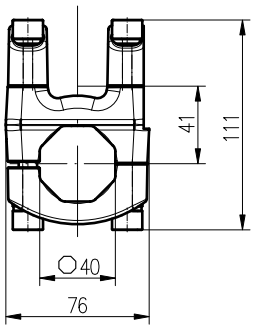
Part no.	⬡A	⬡B	C	D	E	F	(kg)
KLR-8K40-8K40	40	40	76	76	41	111	0.78
KLR-8K40-8K60	40	60	96	96	51	128	1.00
KLR-8K60-8K60	60	60	99	99	61	145	1.34

Clamp block , T-version, split type, round to octagon, non rotating



0.577 kg
Material: Aluminium



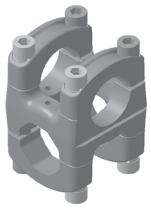


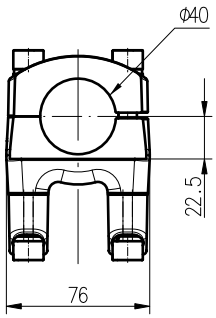
Part no.
KLR-40-40-PS

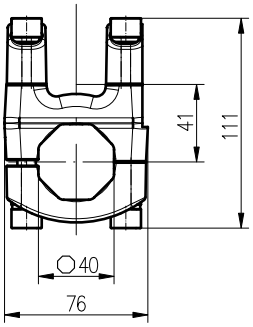
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Clamp block , T-version, split type, round to octagon, non rotating





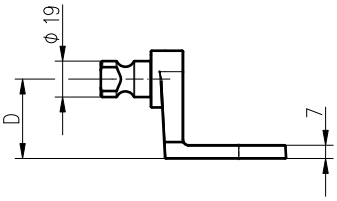


0.78 kg
Material: Aluminium

Part no..
KLR-40-8K40-PS

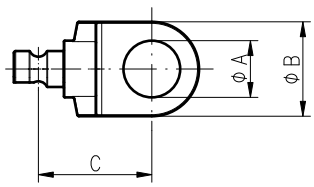
Proximity switch mounts





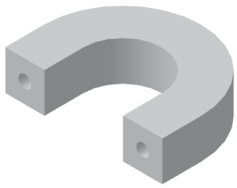
Material: Aluminium

Part no.	Ø A	Ø B	C	D	(kg)
SAPA-18	18	50	60	42	0.13
SAPA-30	30	50	60	42	0.14
SAPA-36	36	50	60	42	0.11
SAPA-42	42	60	67.5	38	0.13
SAPA-47	47	67	67.0	38	0.14

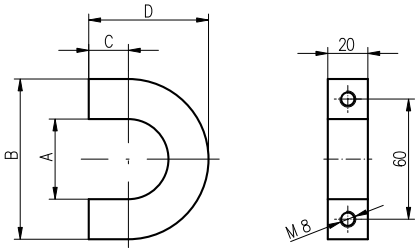


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Clamp

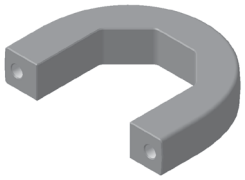


Material: Aluminium

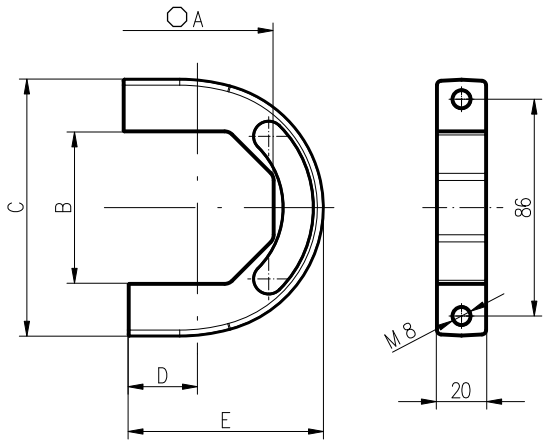


Part no.	A	B	C	D	E	(kg)
TR-40-31-02	40	80	60	19.8	59.8	0.14
TR-60-31-04	60	100	89	29.8	79.8	0.20

Clamp, octagon



Material: Aluminium

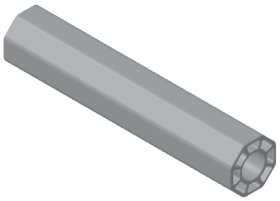


Part no.	⬡A	Ø B	C	D	E	F	(kg)
TR-8K40-31-04	40	40	80	60	19.8	59.8	0.14
TR-8K60-31-04	60	60	100	89	27.5	77.5	0.18

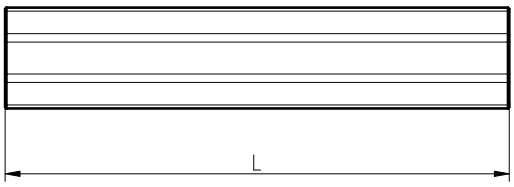
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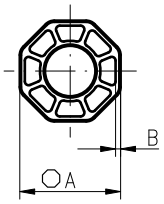
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Aluminium tubing, octogan



Material: Aluminium



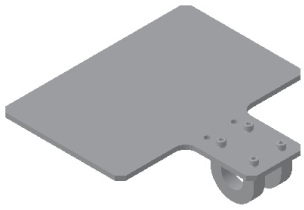


Ordering information		e.g.: PAT-8K40x2-1000
PAT-8K	A x B	-L
	wrench size x wall thickness	Length
	↓	↓
	40x2	150 - 3000 (25 mm Increments)

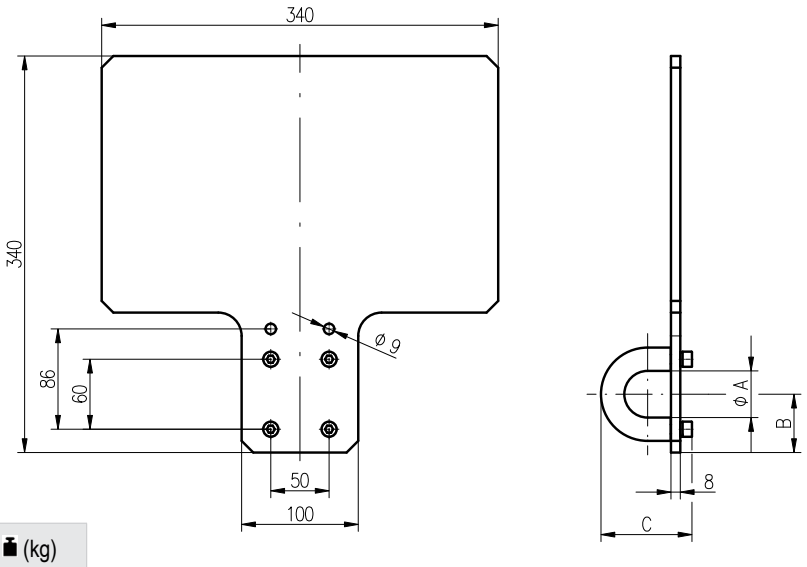
Part no.	kg/m
PAT-8K40x2-*	1.427
PAT-8K60x3-*	2.809

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Plate for electric and pneumatic valves

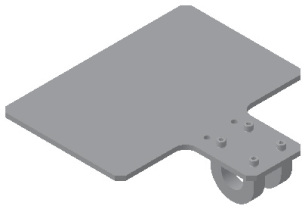


Material: Aluminium

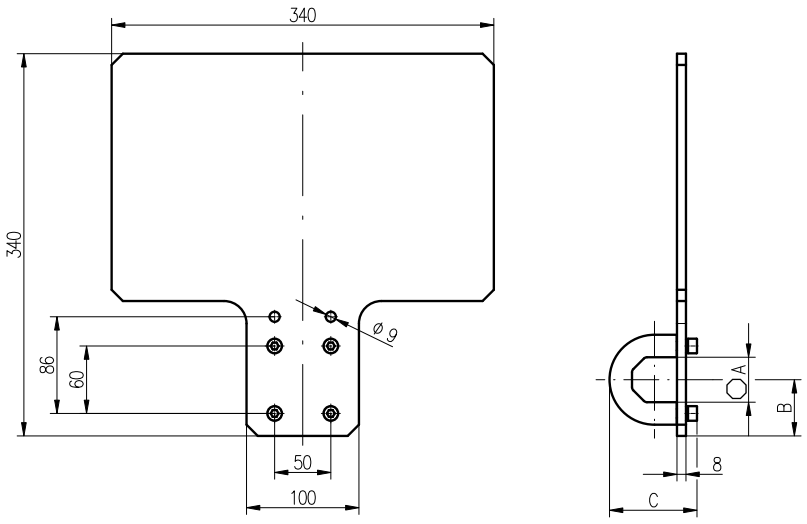


Part no.	Ø A	B	C	(kg)
PL-MG-40-340	40	50	78.0	2.23
PL-MG-60-340	60	63	98.5	2.32

Plate for electric and pneumatic valves, octagon



Material: Aluminium



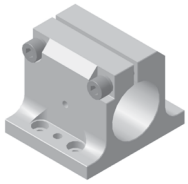
Part no.	⬡A	B	C	(kg)
PL-MG-8K40-340	40	50	78.0	2.23
PL-MG-8K60-340	60	63	97.5	2.31

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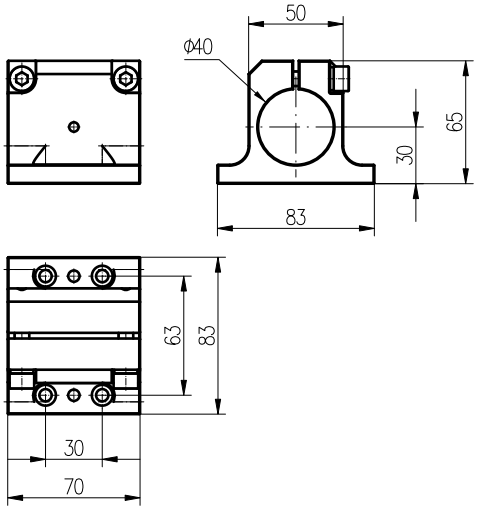
Body shop componente

Flange mount, round

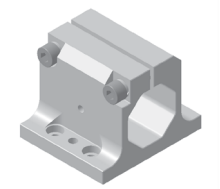


0.50 kg
Material: Steel

Part no.
BSG-1-40

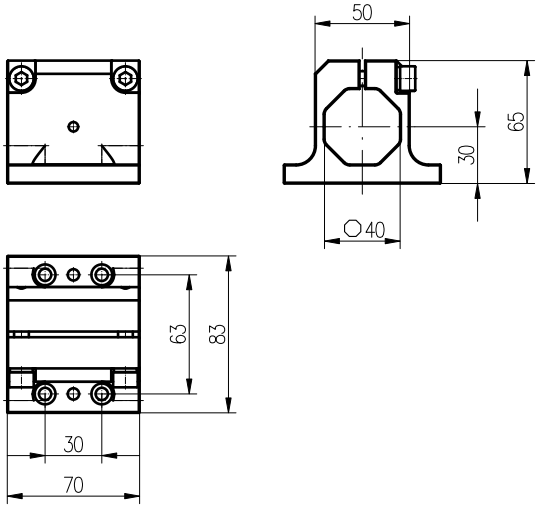


Flange mount, octagon



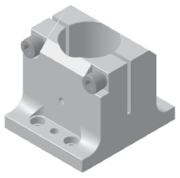
0.50 kg
Material: Steel

Part no.
BSG-1-8K40



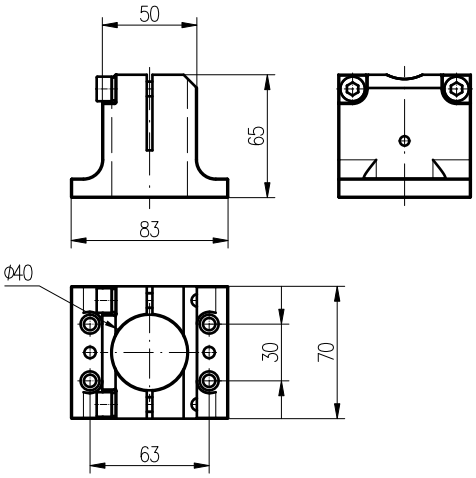
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Flange mount, round

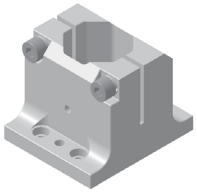


0.50 kg
Material: Steel

Part no.
BSG-2-40

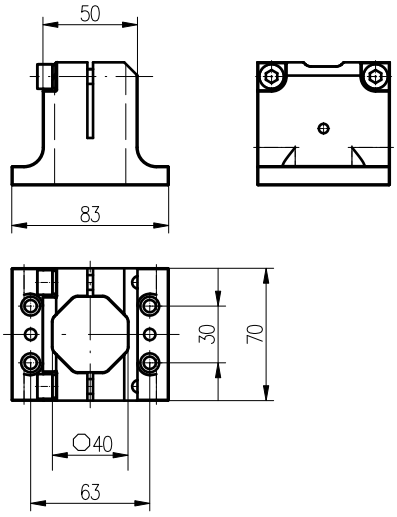


Flange mount, octagon



0.50 kg
Material: Steel

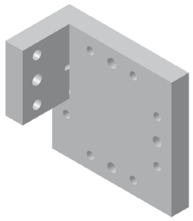
Part no.
BSG-2-8K40



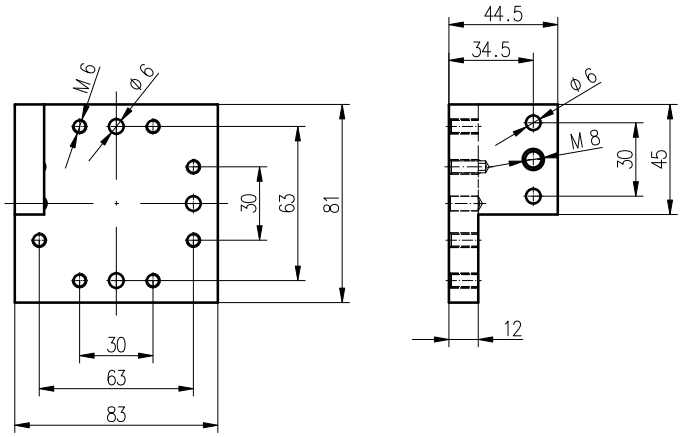
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Angle for flange mounting

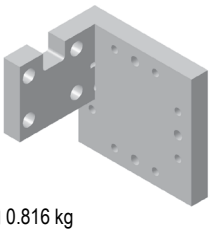


0.736 kg
Material: Steel

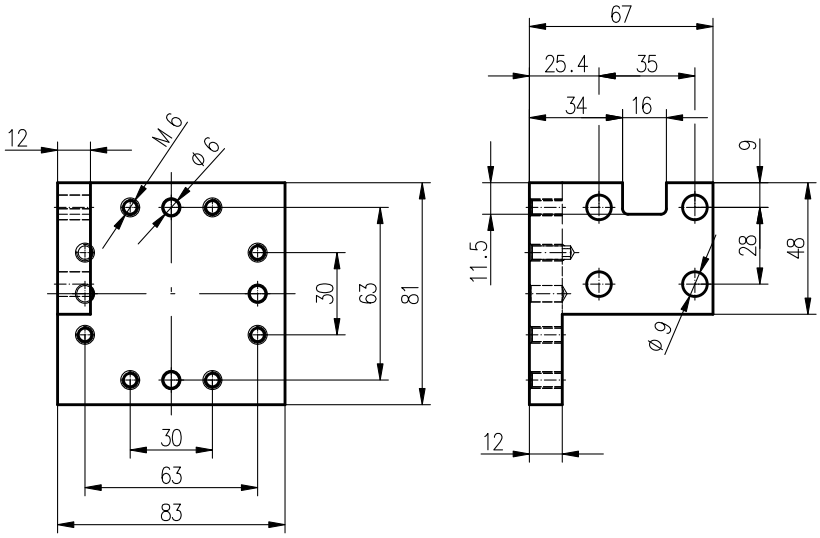


Part no.
ESG-C

Angle for flange mounting



0.816 kg
Material: Steel



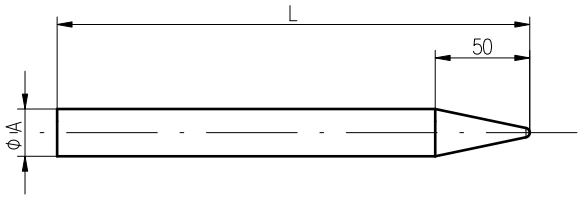
Part no.
ESG-M

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Centering pin



Materal: Steel



Ordering information		e.g.: NPG-C-25-200
NPG-C	-A	-L
	Diameter	Length
	↓	↓
	20	150
	25	200
	30	250

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