

Flexible Gripping Systems for Lightweight Robotics

Modular Gripper Kit PXT

Schmalz Modular Gripper Kit PXT

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The modular gripper kit PXT optimizes the design of flexible gripping systems for lightweight robotics. Solutions for a wide range of handling processes can be implemented with just a few standardized components. The integrable vacuum guide ensures maximum flexibility of use and practicality. Mounting and retrofitting are simple, fast and require only a few tools.



Gripper kit PXT handling a housing cover

Applications

- Flexible system for automating a wide range of handling processes with lightweight robots
- Modularity enables rapid adaptation to new workpieces and requirements
- Use in confined spaces thanks to low interfering contours and internal vacuum guide (optional)
- Part removal from tools and machines
- For payloads up to 25 kg and gripper dimensions up to 800 x 600 mm

Highlights



Adapt flexibly

- Modular system – adaptable and expandable at any time
- Preconfigured flanges for common lightweight robots
- Everything from a single source – thanks to matching connection elements for all Schmalz components



Expand seamlessly

- Few standard components offer a wide range of applications
- Multiple use thanks to high-quality components
- Fast adaptability to changing requirements



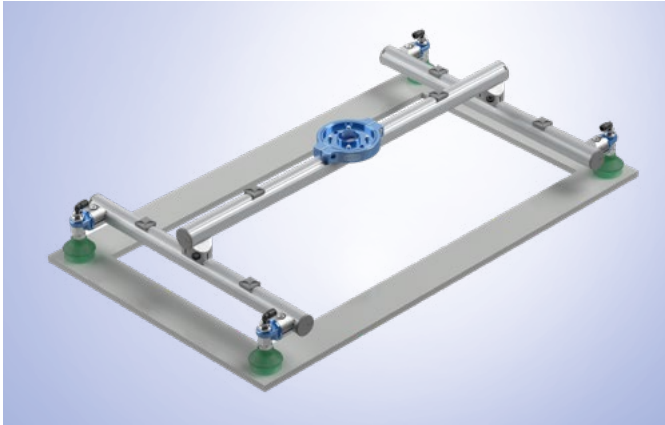
Easy to use

- Low weight – ideal for lightweight robots
- Low interfering contour due to integrable vacuum guide
- Simple and fast assembly with only a few tools

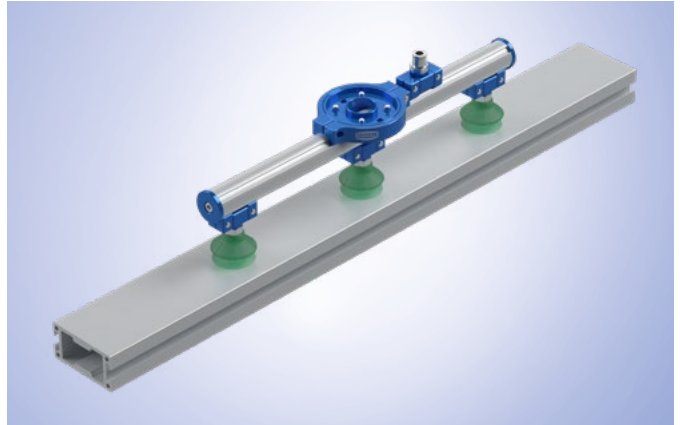


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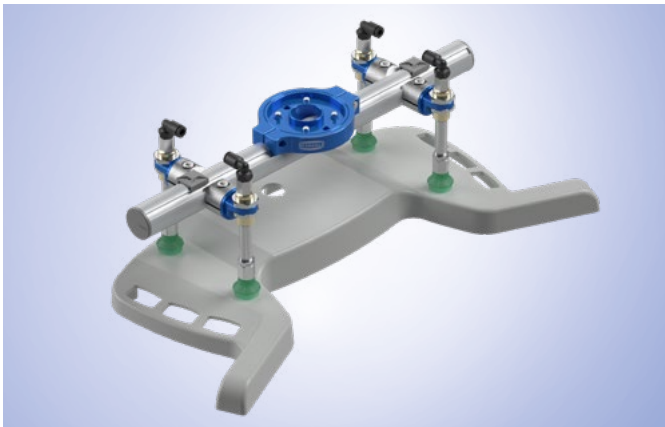
Example Configurations



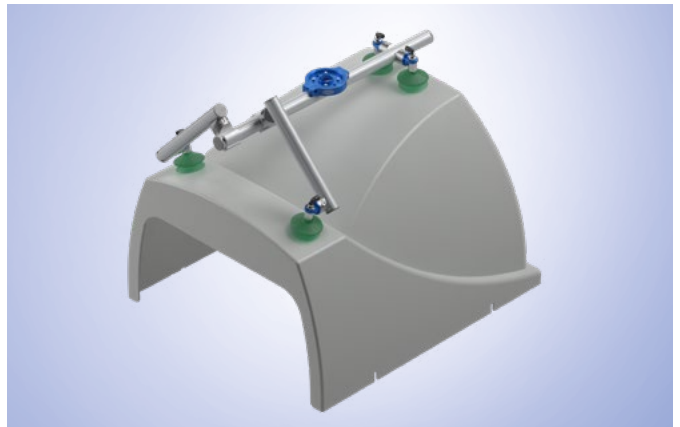
Use in workpiece handling of semi-finished parts or for logistics tasks



Handling of sections, pipes and beams



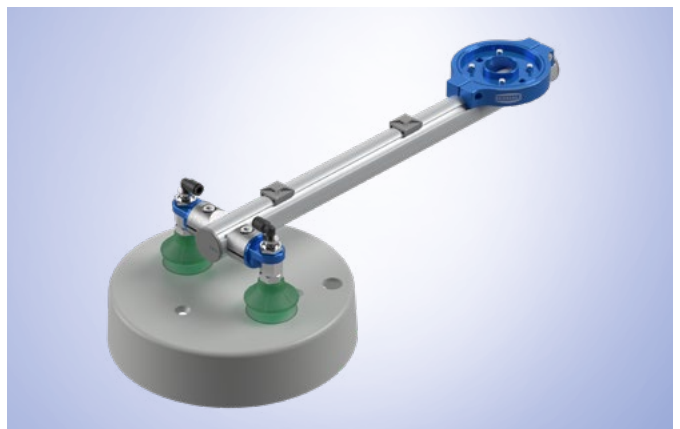
Use in assembly processes



Handling of free-form parts due to the possibility of three-dimensional design of the gripper

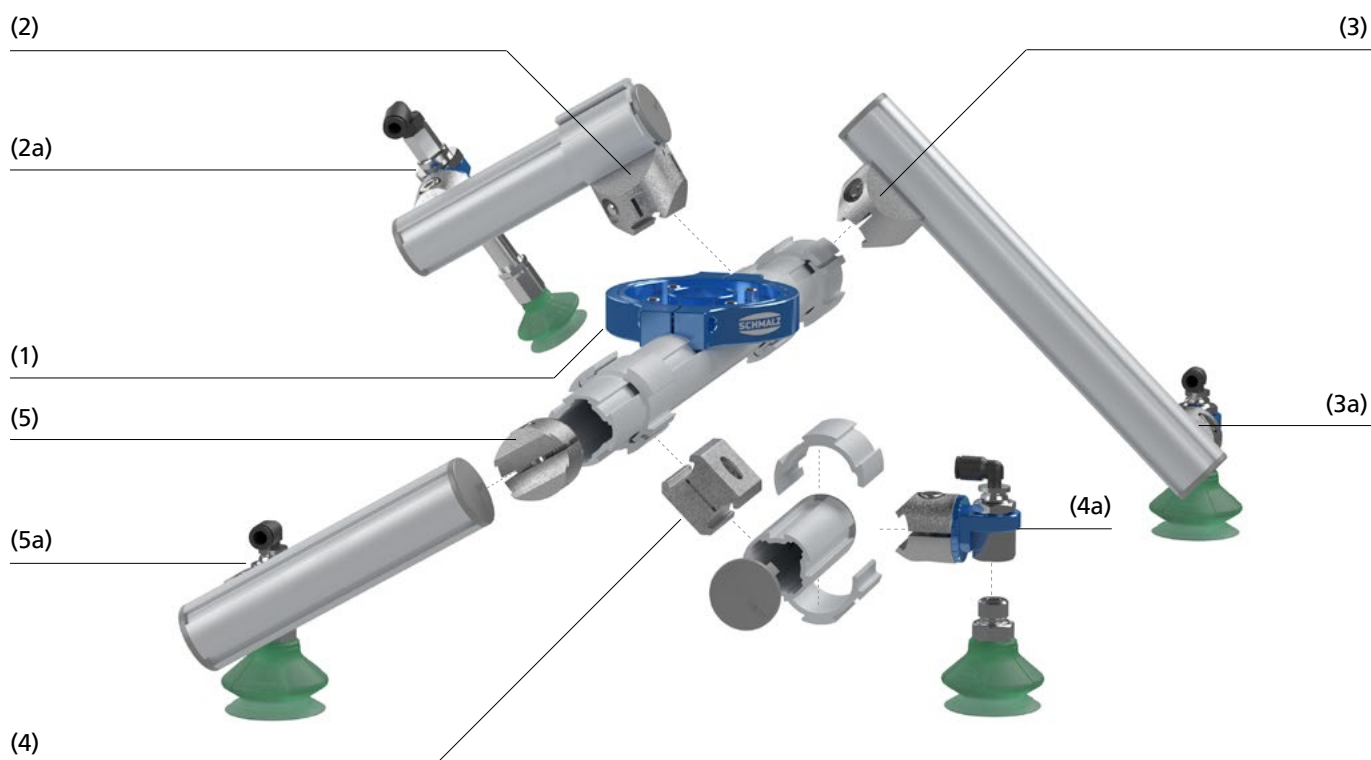


Simultaneous handling of several workpieces, for example for material cuts



Use for machine loading and unloading

Modular Kit at a Glance



DESIGN

- Flange (1) for connecting a longitudinal beam
- Double rotation of the cross beam via two 3D clamps and a cross connector (2) as well as swivelable spring plunger connection (2a)
- Single rotation of the cross beam via 3D clamp and cross connector (3) as well as swivelable suction cup connection (3a)
- Parallel movement of the suction cup via two 3D clamps and a parallel connector (4) as well as swivelable suction cup connection to the 3D clamp (4a)
- Simple rotation of the cross beam via an internal connector (5) and swivelable suction cup connection (5a)

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Components



Flange Sets PXT

Flange patterns suitable for common lightweight robots



Mounting Profile MO-PROF PXT

Stable standard aluminum profile with diameter 30 mm



Pneumatic Distributor SVB PXT

With push coupling as T- or multiple distributors



Mounting Technology PXT

90° cross connector with optional vacuum feedthrough or 3D connector



Connection Technology PXT

Holders for suction cups, spring plungers and other components

Configuration and Ordering

We offer you three ordering options:

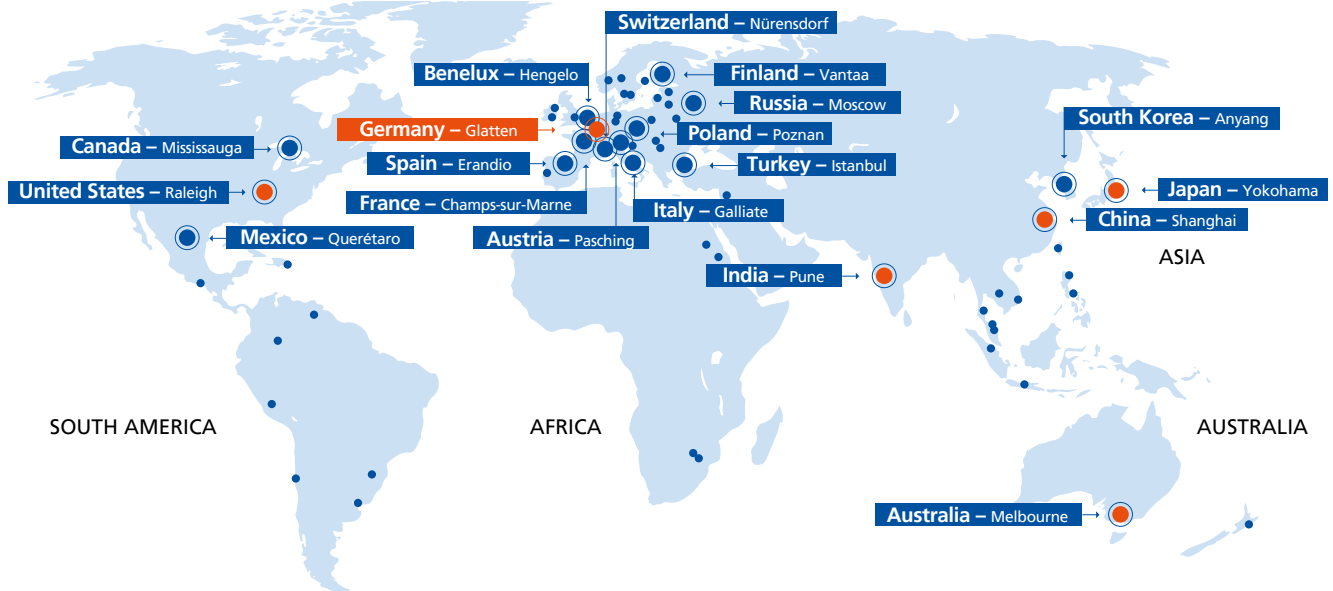
- 1) You order a gripper ready to connect.
- 2) You order a gripper and assemble it yourself at your site.
- 3) You order the individual components according to your requirements.

The configuration is done via a configurator or by combining the single components.

Ordering information for individual components can be found in our online shop:
WWW.SCHMALZ.COM/PXT

For individual configurations, contact your system consultant for vacuum automation:
WWW.SCHMALZ.COM/SYSTEMBERATER

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