



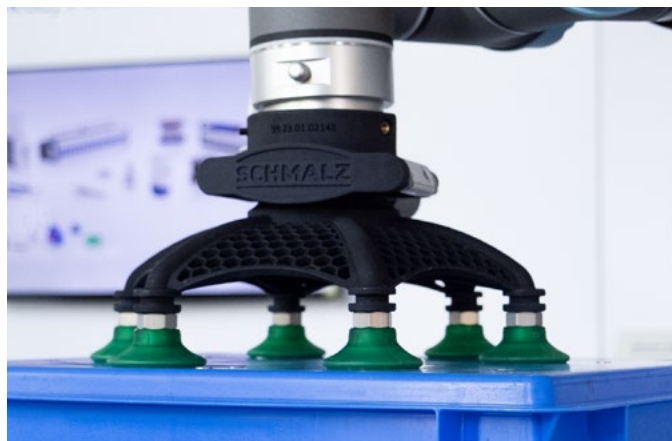
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Lightweight Grippers SLG

Lightweight Grippers SLG

Individually configured, automatically designed, additively manufactured

The lightweight gripper SLG is ideal for use on lightweight robots and cobots for automated handling of different workpieces. The software-based configuration and additive manufacturing process of the SLG guarantee high flexibility and allow simple customization of gripper solutions.



Lightweight gripper SLG when handling a plastic part

Applications

- Individually configured, additively manufactured lightweight gripper for automated handling of different workpieces
- Ideal for use on lightweight robots and cobots
- Handling of cardboard boxes, bags and other free-form workpieces
- For use in the packaging, logistics and electronics industries, EOLP (end of line palletizing) and pick-and-place applications

Product Highlights



Max. load 10 kg



Dimensions L x W x H
max. 350 x 350 x 250 mm



Individual configuration

Intuitive and fast configuration of the gripper to suit the workpiece and application.



Automatic design

Intelligent and energy-efficient gripper design through the software.



Additive manufacturing

Higher payload of the robot due to low gripper weight and minimized interfering contours due to integrated air guidance.



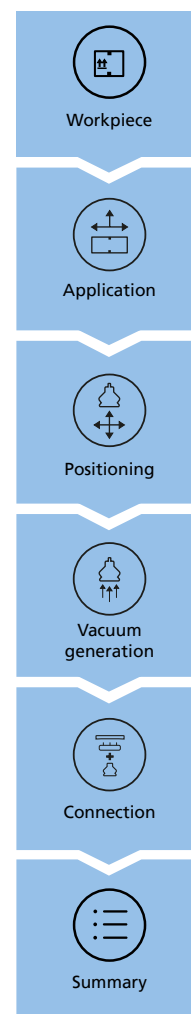
Plug & work

Quick start of operations thanks to suitable interfaces for common robot types.

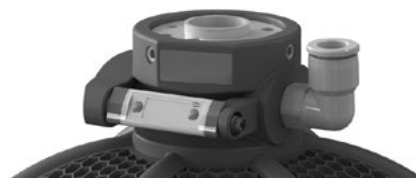
Configuration Tool

Step by step to the finished gripper

- 1. Select your workpiece**
 Define the dimensions and weight of your workpiece or simply upload a CAD file.
- 2. Define the application**
 Select the load case and specify the acceleration.
- 3. Position the suction cups**
 The tool supports you in selecting the number, type, size and material of the suction cups and positions them automatically. Alternatively, you can position the suction cups freely on the workpiece.
- 4. Select the vacuum generation**
 Choose from the following types of vacuum generation: external and pneumatic, external and electrical, integrated and pneumatic.
- 5. Select the connection**
 Find the right flange for your Cobot based on the robot manufacturer and type or choose an universal flange.
- 6. Summary**
 Have a look at your finished gripper. Send us an inquiry and you will receive an offer within a short time.



Types of Vacuum Generation



External pneumatic vacuum generation

Push-in connection for connecting an ejector from the Schmalz program or using an existing vacuum generator.



External electrical vacuum generation

The vacuum generator ECBPi from Schmalz is suitable for external vacuum generation (suction capacity up to 12 l/min).



Integrated pneumatic vacuum generation

Integrated vacuum generation by Schmalz ejector module SEP (suction capacity up to 175.3 l/min).

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Configuration examples



Lightweight gripper SLG with integrated vacuum generation for handling plastic capsules



Lightweight gripper SLG for external vacuum generation for handling a freely formed plastic workpiece



Lightweight gripper SLG with vacuum generator ECBPi for handling elongated packages



Schmalz Robotics

Solutions and know-how for lightweight robots

Customized gripping systems are the prerequisite for Cobots being able to adapt flexibly to almost any task. The Schmalz robotics portfolio includes ready-to-connect robot kits, customizable vacuum grippers and suitable vacuum generators. You benefit from our comprehensive know-how in handling technology during the design phase.

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