



Soft gripper HPSX



Highlights

- Suitable for direct contact with food according to European Regulation (EC) No. 1935/2004
- Soft fingers for gently gripping delicate objects
- Less machine downtime, maintenance and cleaning effort thanks to the clean design and simple installation
- Flexible gripper thanks to the different sizes and number of gripper fingers
- Collaborative: suitable for use on cobots and industrial robots thanks to its soft design
- Quick and easy to install thanks to ISO-standardised interface ISO50 with defined positioning

With its soft fingers, the soft gripper HPSX is specifically designed to gently grip delicate objects such as fruit or luxury items. It adapts flexibly to different shapes and geometries. The gripper is used in the food and packaging industries as well as in other sectors where sensitive and differently shaped objects need to be handled reliably.

From strawberries to honeydew melons

The soft gripper HPSX is available in three sizes and grips sensitive products, from strawberries to honeydew melons, gently and reliably. Soft, modular fingers adapt flexibly to different shapes and sizes. This provides you with an efficient, adaptable and reliable automation solution for delicate products.

Food compliance and efficient cleaning

The HPSX ensures that delicate or fragile products are handled flexibly, hygienically and efficiently. The use of food-compliant materials and the clean design mean they are easy to clean, thus minimising downtime.

Easy to integrate

The HPSX can be quickly and precisely integrated into existing systems via the standards-based ISO50 interface. The modular design with just a few mounting points significantly reduces the

installation effort. Festo provides a comprehensive range of components and proven solutions for controlling and generating vacuum, enabling fast and reliable commissioning. The result is a well-thought-out complete system from a single source.



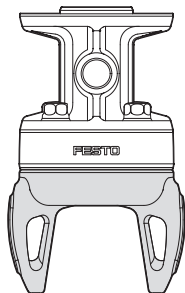
Additional information:

Product page

> www.festo.com/catalogue/hpsx

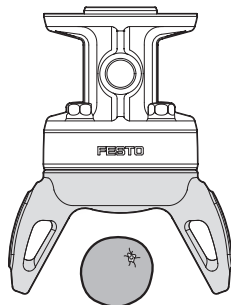


Functional principle of the control unit



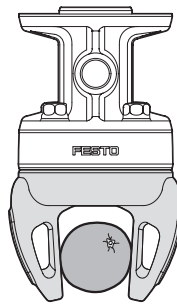
Positioning:

- Move the gripper over the object
- Gripper is exhausted



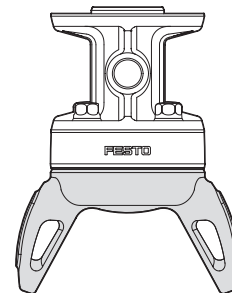
Opening

- Exhaust the gripper or apply overpressure to open the gripper fingers
- Aligning the gripper with the object



Gripping

- Apply vacuum to the gripper to close the gripper fingers
- The gripper fingers adapt flexibly to the shape of the gripped object
- Regulate the vacuum accordingly so that the object is held gently yet reliably

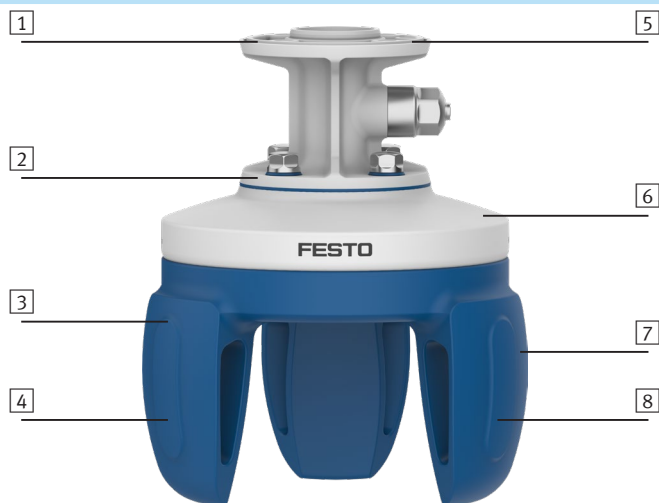


Setting down

- Exhaust the gripper or apply overpressure to open the gripper fingers
- Move the gripper away from the object

Design

- 1 Easy to install with integrated interface to ISO50
- 2 Clean design for easy cleaning
- 3 Gripper fingers are quick and easy to change
- 4 Soft gripper fingers for reliably gripping delicate materials
- 5 Collaborative thanks to suitability for use with cobots
- 6 FDA-compliant material for use in the food industry
- 7 Flexible use thanks to modular design and flexible gripper fingers
- 8 Metal detectable material for safe applications





Sizes and variants

Modular design – 3 sizes each with 3 different gripper finger variants. Available complete or as individual components for application-optimised and flexible requirements.

40



70



100



Technical data

Sizes	40	70	100
Stroke [mm]	30 ... 55	55 ... 80	80 ... 110
Operating pressure [bar]	-0.85 ... 0.2		
Operating mode	Double-acting (vacuum/low pressure and positive pressure in one connection)		
Suitable for the food industry	FDA material / (EC) No. 1935/2004		