



Hygienic gripping, safe holding

Finger Gripper mGrip

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Hygienic gripping, safe holding

Safety, hygiene and reliability are essential in the automated handling of food products. We know your requirements and offer the right gripper solutions. With the mGrip Finger Gripper and its wide range of configuration options, Schmalz always offers the right solution for direct food handling.

Compared to mechanical gripper systems, pneumatic Finger Grippers are more adaptable and extremely sensitive when gripping a wide variety of sensitive workpieces. They are easy to control, lighter due to their design and the risk of contamination is reduced by the absence of additional drives and the closed pneumatic circuit.



Application

- Finger Grippers for direct contact with food products, for example when transferring products to trays or for quality control (e.g. baked goods, fruit and vegetables, meat and fish)
- Handling of sensitive organic products with different shapes and characteristics, such as chicken thighs or apples
- Fast picking of hard-to-grip workpieces in food processing, such as croissants or bagels
- Use in logistics for picking small parts in packaging such as nets or bags
- Small workpieces such as nuts can be handled, as the modular design enables the configuration of compact grippers

- ▲ The Finger Gripper mGrip offers the most solid and versatile option for the precise handling of delicate and difficult to grip workpieces
- ▶ The closed system meets the highest hygiene standards and guarantees maximum process reliability.



Hygiene suitability.

Suitable for direct handling of food products thanks to optional hygienic design (degree of protection IP69K)



High efficiency.

Fast pick and place applications possible

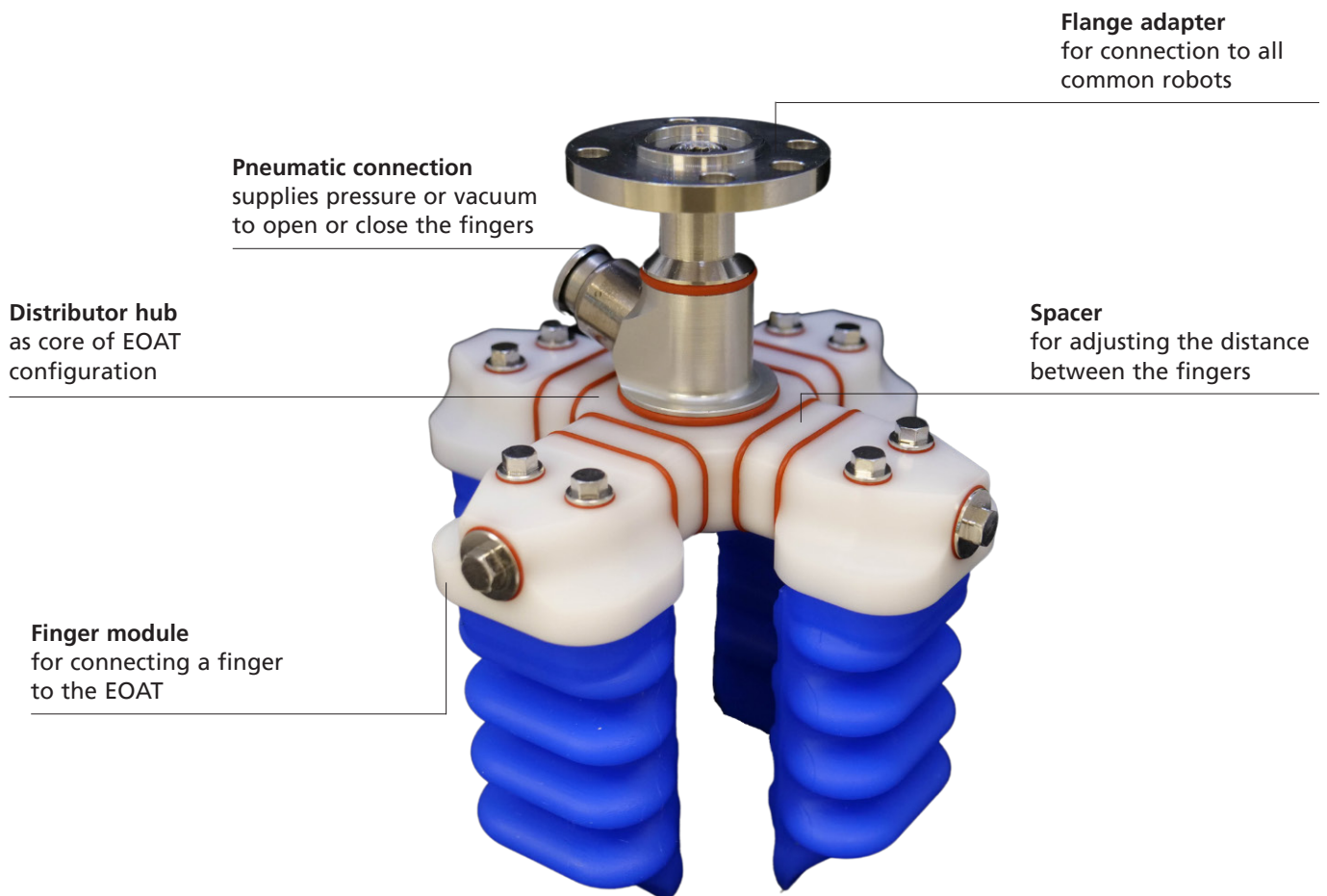


Maximum flexibility.

Flexibility thanks to adjustable opening angles, gripping force and finger positions

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Flexible design

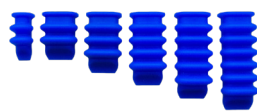


Modular EOAT Ecosystem

Modular design and customer-specific configurations enable custom-made solutions



Flexible setup
For safe gripping of round or elongated products, the gripper can be mounted circularly or in parallel



Variable finger lengths
For optimum adaptation of the gripper to the products to be handled, optionally with angled fingertip



Variable spacers
For perfect adjustment of the finger distance to handle different sizes and shapes



Controller
Precise control ensures maximum speeds, better gripping quality and longer finger lifetime

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Technical Data Finger Gripper mGrip

Type	mGrip
Gripper	
Load capacity*	up to 10 kg (more with special configurations)
Workpiece width	20 ... 300 mm (more with special configurations)
Gripper Speed*	up to 120 Picks per minute
Material	Finger: Silicone Food-grade version gripper: POM, Stainless Steel, Silicone Industrial version gripper: POM, Aluminum, Silicone
Protection class	IP69K
Workpiece temperature	-40 °C ... +100 °C
Operating temperature	-20 °C ... +45 °C
Controller	
Supply voltage	24V / 0,5A
Pneumatic supply**	5,9–6,9 bar (6,5 bar recom.)
Interfaces	digital (I/O), analog (I/O), USB
Temperature	+5 °C ... +40°C
Protection class	IP40

*Depending on application parameters

**Pneumatic supply is not required for electrical control unit coDrive

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