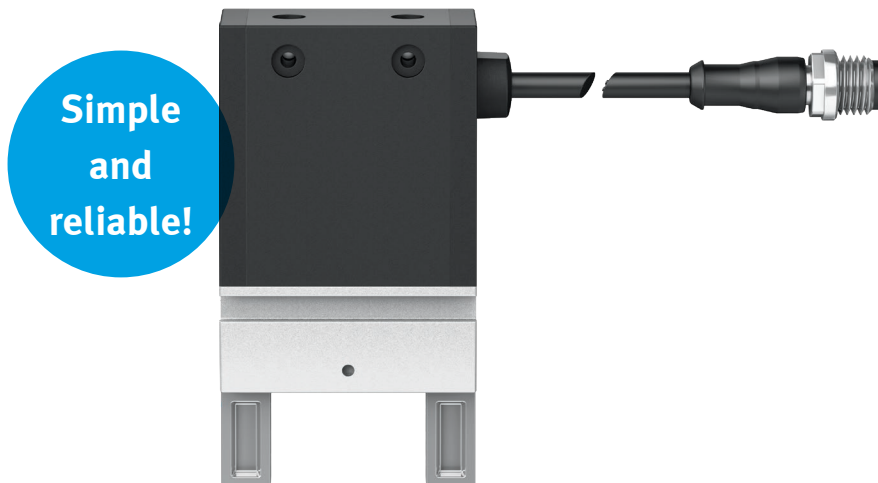


# Electric standard gripper with EHPS -...-A and EHPS-...-LK with IO-Link®

FESTO



Simple  
and  
reliable!

## For standard movement

### Highlights

- Long stroke for different workpieces
- Brushless DC motor
- Adjustable gripping force
- Controller-free actuation using digital signals
- Stable T-slot guidance of gripper jaws for high torque resistance
- IO-Link® communication
- Parameterisation of the gripping position and tolerance
- Different gripping modes
- Condition monitoring
- Integrated position sensing

**Reliable, economical, powerful.** The parallel gripper EHPS is a great solution for gripping small to medium-sized parts. It comes into its own in handling and assembly technology as well as in special machine construction, the electronics industry, small parts assembly and MedLab.

### Integrated control

Digital actuation makes commissioning easy – with no need for external controllers. Direct position sensing with the T-slot on the gripping head indicates whether the gripping motion is correct. The latched switch with four gripping force adjustment settings makes EHPS powerful and adaptable for sensitive workpieces.

### Reliable operation

In the event of a power failure, EHPS holds the workpiece through automatic locking of

the gear unit while the free wheel unit prevents jamming. The gripper is actuated via two open/close PINs and just one signal; uncontrolled movement is prevented.

### Small and powerful

In the EHPS, compact dimensions without interference contours and protruding plugs are combined with a highly dynamic motor for high forces and a strong dynamic response. The acceleration distance for maximum force is just 0.5 mm.

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## Powerful for simple tasks

EHPS is ideal for use in electric systems or in applications in which no air is permitted and a clean environment is required.

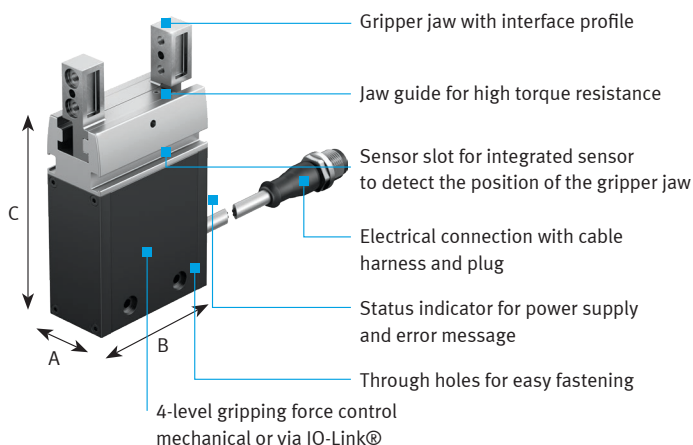
## Switching logic EHPS-...-A

The grippers are controlled by edge triggering, e.g. a movement is immediately initiated when a leading edge is detected at the input. The gripper can be connected to Festo output modules

CECC and CPX via a terminal strip.

## Behaviour of the EHPS-...-LK.

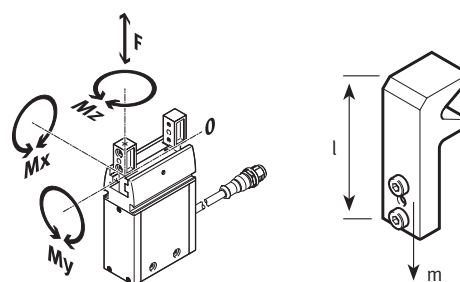
The gripper comes with 3 learnable virtual gripping modes (universal, internal and external gripping), 3 teachable virtual gripping positions for monitoring and 32 memory spaces for rapidly calling up known work-piece data records.



Type	EHPS-...		
Nominal size	16	20	25
Opening width per jaw [mm]	10	13	16
Gripping force [N]	50	90	125
Closing time [s]	0.3	0.42	0.44
Weight [kg]	0.31	0.54	0.9
Ambient temperature [°C]	-5 ... 60		
Materials	Aluminium (housing, cover)		
Degree of protection	IP40		
Cable length [m]	0.3		
Operating voltage [V DC]	24		
Dimensions A, B, C [mm]	26/53.8/99.5	32/65/118.5	39/79.4/141
<b>Gripper finger data*</b>			
Permissible gripper finger length [mm]	80	100	120
Max. mass per finger [g]	100	150	230

\* To be adhered to by the customer

## Max. force (static) and max. torque (static)

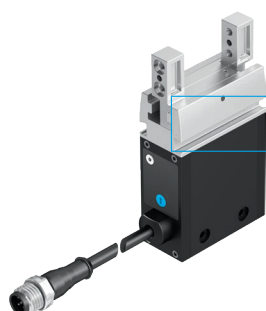


Nominal size	16	20	25
FZ [N]	200	325	450
MX [Nm]	4.5	8	11
MY [Nm]	2.5	3.5	6
MZ [Nm]	4.5	8	11

## Accessories

### Adapter kits

EHPS	EGSL			DGPL, DGE, DGEA				ERMB			EHMB			ERMO				
	45	55	75	18	25	32	40	20	25	32	20	25	32	12	16	25	32	
16	•				•		•	•	•						•		•	
20	•		•					•	•								•	•
25		•						•	•	•	•	•	•				•	•



	SMT-8M	SMT-8G	SMAT	SDAT
16	•*	•	•	
20	•	•	•	•
25	•	•	•	•

Accuracy of the integrated sensor 0.05 mm

\* With projection

www.festo.com