

Reliable gripping without air

Electric gripper EHPS from Festo, also with IO-Link®

The electric standard gripper EHPS from Festo is the electric version of the pneumatic standard gripper DHPS. The EHPS can be used wherever pneumatics is not permissible. The concept of the electric standard gripper is based on simplicity and low complexity – all the electronics are integrated in the gripper, which means that an external motor controller is not required.

The gripper EHPS can move small to medium-sized parts, making it ideal for applications in handling and assembly technology as well as in special machine building, the electronics industry, small parts assembly and laboratory automation.

Digital actuation

Digital actuation makes commissioning easy – there's no need to worry about external controllers. In addition, with its sturdy T-slot jaw guide the EHPS can grip workpieces reliably and with high torque absorption. Direct position sensing with the T-slot on the gripping head indicates whether the gripping motion is correct. Users can precisely adjust the gripping force to delicate workpieces using a latching switch with four settings.

A dynamic and powerful brushless direct current motor provides the compact gripper with high forces. In the event of a power failure, the electric gripper continues to hold the workpiece through the gear unit's automatic locking function, while the freewheel unit prevents jamming. Actuation via two open/close pins means the gripper only moves when a signal has been sent; uncontrolled movement is prevented.

Diagnostics with IO-Link®

Installation is easy too as the integrated electronics enable a direct connection to the controller via an M12 plug. The EHPS is also available with IO-Link® as an option. The communication interface thus offers diagnostic functions and predictive maintenance options, storable gripping modes to optimise the cylinder times and integrated and virtual (teachable) position indication.

Press Images

01. October 2020

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EHPS electric standard gripper

The electric parallel gripper variant EHPS-...-LK with integrated memory for various learning functions.

About Festo

Festo is a global player and an independent family-owned company with headquarters in Esslingen am Neckar, Germany. Festo has set standards in industrial automation technology and technical education ever since its establishment, thereby making a contribution to sustainable development of the environment, the economy and society. The company supplies pneumatic and electrical automation technology to 300,000 customers of factory and process automation in over 35 industries. Digitalization, AI and the LifeTech sector with medical technology and laboratory automation are becoming increasingly important. The products and services are available in 176 countries. With about 20,600 employees in over 250 branch offices in around 60 countries worldwide, Festo achieved a turnover of around €3.45 billion in 2024. More than 8% of this turnover is invested in research and development. In this learning company, 1.5 % of turnover is invested in basic and further training. Festo Didactic SE is a leading provider of technical education and training and offers its customers worldwide comprehensive digital and physical learning solutions in the industrial environment.