

Festo Simplified Motion Series electric drives designed for simple movements

Solving simple motion tasks electrically is now possible with the Simplified Motion Series (SMS) from Festo. The electric drive series combines the simplicity of pneumatics with the benefits of electric automation to offer users an affordable solution that is easy to install and operate. The SMS consists of different linear and rotary electromechanical components together with a simple and application-optimised combination of motor and servo drives. With this solution, there is no need for external servo drives and the installation of a control cabinet, because it is mounted directly in the machine.

The Simplified Motion Series integrates all the elements of standard electric drive solutions into a single package for simple motion tasks such as repositioning, aligning, feeding, sorting, clamping, ejecting and stopping. Simplified set-up and operation make these electric drives perfect for simple motions between two mechanical end positions—clamping functions.

There is no need for additional software. The parameters for the advancing and retracting speed as well as the pressing and clamping force can be set directly on the drive, along with the end position reference and cushioning profile. Thanks to this intuitive, quick and easy commissioning facility, configurations don't require any special software or specific know-how. The motion can be simply controlled via digital I/O (DIO), like a pneumatic valve. End position feedback, similar to that from a standard proximity sensor or cylinder switch, provides feedback on completion of the motion.

Each drive in this series is controlled via Digital I/O. Digital I/O and IO-Link® are included as standard. IO-Link® enables the drives to communicate intelligently from the controllers all the way to the cloud about simple motions as well as easy handling, commissioning and actuation. Additionally, it allows remote control, parameter copy, backup function, and read functions for process parameters.

Product overview

The Simplified Motion Series comprises of various powerful electric drives. The below drives work together to give customers the optimum industry results.

Spindle and toothed belt axis ELGS

An extremely compact and cost-effective spindle axis ELGS-BS with precise, resilient recirculating ball bearing guide for the slide and powerful ball screw.

Mini slide EGSS

The cost-effective and resilient EGSS has smooth spindle operation for vertical Z movements or guided linear individual movements in every mounting position.

Electric cylinder EPCE

14. December 2020

Responsible
according to press
law:
Christian Österle



Download/View press
release and press
images.

The EPCE is an electric cylinder for short strokes and cycle times, offering a minimal zero stroke and excellent value for money. It is ideal for use in testing and inspection systems as well as for labelling, in simple centring tasks and for aligning workpieces.

Electric cylinder EPCS

The EPCS is suitable for single linear movements in every mounting position, and its smooth-running ball screw allows precise and rapid positioning. As an extremely cost-effective complete solution, the electric cylinder is ideal for applications such as positioning or clamping, distributing, sorting or ejecting, and in handling systems as a simple Z-axis.

Toothed belt axis ELGE

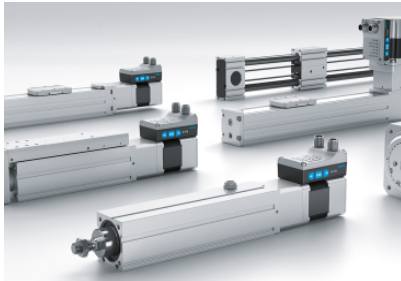
The toothed belt axis offers outstanding running performance thanks to its recirculating ball bearing guide ELGE-TB. As an attractively priced complete solution with a cost-optimised design, it is an ideal and economical choice for simple tasks.

Rotary drive ERMS

As a cost-effective solution package, the rotary drive ERMS is ideal for simple swivel tasks as well as for increased mechanical loads. It has a rotary plate with sturdy, precise and backlash-free ball bearings so it can absorb lateral forces and torques.

The Simplified Motion Series is an ideal entry point for customers that require an upgrade to electric drive automation with simple set-up and control. Ready matched motor, drive and axis make selection safe and reliable and clearly show the way ahead for simple yet controlled motion.

Press Images



Simplified Motion Series

The solutions of the Simplified Motion Series from Festo at a glance.

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.