Our handling systems at a glance

At Festo, the choice is yours: we offer a wide selection of handling systems for a multitude of applications and industries, from single-axis systems to 2D and 3D gantries, and the highly dynamic delta parallel kinematic system.

Standard

A fitting solutior

Application



Single-axis system YXCS



2D: linear gantry YXCL



3D: three-dimensional gantry 3D: cantilever

Compact



2D: planar surface gantry



2D: linear gantry EXCT



2D: planar surface gantry YXCF

3D: parallel kinematic system

2D: planar surface gantry

For cantilever loads

With frame solution

For heavy loads

The all-inclusive package from Festo for complete peace of mind

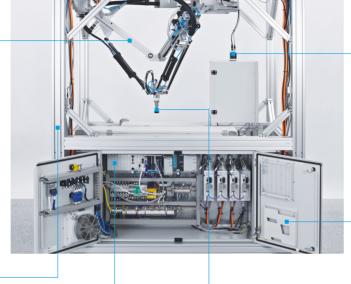
Festo offers you everything you need for your handling system. You receive perfectly coordinated components and optimum after-sales service of the highest quality for total reliability and maximum productivity.



Kinematic system

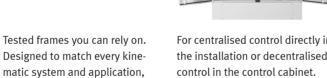
Our highly dynamic mechanical systems with integrated energy chain are available in numerous sizes and stroke ranges.

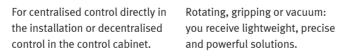
in aluminium or steel.













Our experts take care of your handling systems. From commissioning and training to after-sales service, we are there to help.

Intelligent compact vision system

for optimum quality inspection

and conveyor tracking.

Maximum productivity is a question of ambition.

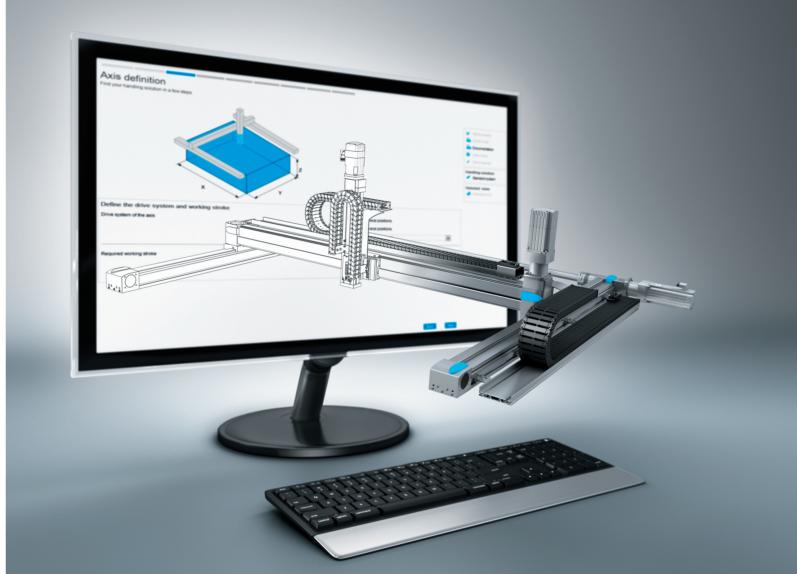
Do you share this attitude? We will be glad to help you achieve this goal – through our four outstanding qualities: • Security • Efficiency • Simplicity • Competency We are the engineers of productivity.

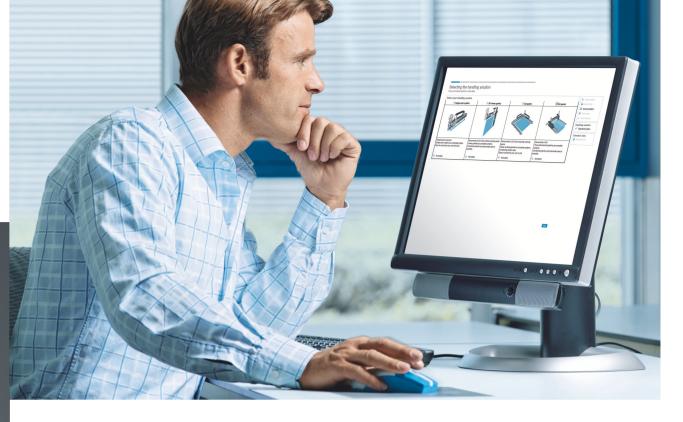
Discover new dimensions for your company: → www.festo.com/whyfesto

www.festo.com

Handling systems

FESTO





You need complete systems.
You want reduced complexity.
We are your dependable solutions partner.

→ WE ARE THE ENGINEERS OF PRODUCTIVITY.

Handling systems from Festo: versatile, economical, perfectly fitting.

Are you looking for the right partner for your new handling system? Festo offers you a diverse range of handling systems for a multitude of applications, from standard solutions for common applications through to customised solutions for your own very specific requirements. In addition, our ready-to-install systems and support services mean less work for you. We assist you from the design stage through to installation and commissioning. That allows you to concentrate entirely on your core business and increase your productivity.

Engineering with the Handling Guide Online: efficient, intuitive and fast.

With this online tool, you can configure and request your standard handling system in record time. It contains the full knowhow of our experts: all you have to do is enter the data for your application. The Handling Guide Online automatically works out suitable solutions, including CAD model and technical data. You then simply select the system you want, make your request via a single click and receive a customised offer from your local Festo office. There's no faster or simpler way to get the right handling system. Try out the new tool today!

Additional information: → www.festo.com/handling To the Handling Guide Online: → www.festo.com/handling-guide

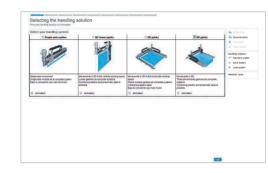
Flyer_HGO_en_V01.indd 1-4 30.03.2015 11:24:47

The fast route to your handling system

Handling Guide Online

The Handling Guide Online is an all-in-one configuration and ordering system. This unique online engineering tool supports you in configuring and requesting your standard handling system. It cuts your engineering time and effort to a minimum and guides you to the right handling system in record time.

Three steps to your handling www.festo.com/handling-guide



Choose the type of handling system and enter your application data into the Handling Guide Online. The tool will suggest appropriate handling



2nd step:

Select the most suitable handling system from the list of suggestions. The correctly configured CAD model and the data sheet with all the relevant figures are immediately available for download.



You can use additional options to configure your selected system in accordance with your equirements. Then send your preferred handling system via a single click and your local Festo office will contact you to confirm your request. Festo will deliver a ready-to-install system, including all user documentation in accordance with the EC Machinery Directive, as quickly as possible.

If you have specialised technical requirements, you can simply send your application data to our experts with a single mouse click, and receive a customised offer.

The benefits to you:

- **Fast.** The right handling system in just 20 minutes, including CAD model
- Efficient. The Handling Guide Online cuts your engineering time and effort to a minimum, and you don't need any detailed product knowledge.
- Intuitive. The Handling Guide Online is very easy to use and features structured prompts for data
- Reliable. Immediate access to technical data allows you to plan with certainty.

Configure and order with the Handling Guide Online

Standard handling systems

Ready-to-install standard handling systems from Festo provide you with fast and reliable solutions for all standard applications: fully assembled and tested, including energy chain, connection technology and matching drive package. The individual components match each other perfectly and guarantee reliable operation.



Single-axis system YXCS: for movement in one

This single-axis system with its high mechanical rigidity and sturdy design is ideal for long, onedimensional strokes and large loads. Together with a matching motor and motor controller package from Festo and many other options, you have a complete system, ready to install.

- Fully assembled and tested
- Energy chain for reliable operation
- Standardised interface for easy connection of individual front units



Linear gantry YXCL: for vertical movements in 2D

High mechanical rigidity makes this linear gantry precise, even with very long strokes of up to 3000 mm in the Y direction. Routing of tubing and cables through energy chains gives it particularly high operational and process reliability.

- Fully assembled and tested
- User-friendly mounting and assembly, even



Planar surface gantry YXCF: for horizontal

With its high mechanical rigidity and sturdy design, this planar surface gantry can be used anywhere, whether with heavy workpieces or high payloads. At the same time, YXCF is extremely precise – even with long strokes.

- Different sizes and variants available
- Standardised interface for easy connection of



The benefits to you:

Three-dimensional gantry YXCR: for threedimensional movements in a space

This three-dimensional gantry is ideal for very long strokes of up to 3000 mm in X direction, even with high loads. Its combination of several axis modules can be used anywhere, for handling light to heavy workpieces or high payloads. Its high mechanical rigidity and sturdy design make this threedimensional gantry reliable and precise.

• Fast. Can be configured and ordered in just a

• **Ready-to-install.** Fully assembled and tested

few steps with the Handling Guide Online.

systems mean reduced time and effort for

logistics, installation and commissioning.

payloads.

• Multi-purpose. Can be used for low and high

• Pneumatic and electrical components are freely

• Durable and precise. High mechanical rigidity

components – also available in combination.

• Combinable. Pneumatic and electrical

and sturdy design.

 With matching Festo motor and motor controller package, and energy chain

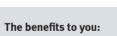


small space

This compact planar surface gantry is available in two sizes and can execute strokes of up to 700 mm.

- Planar surface gantry: high functionality in a very

 Flat and compact for optimum use of space
 - High payload



- Fast. Select the size you want from the product catalogue and order it immediately via the Online
- Flexible. Full flexibility for loads, dynamic response, working space and mechanical system.
- Ready-to-install. Fully assembled and tested systems for quick commissioning.
- Variable. Various sizes and working spaces for compact mounting and optimum coverage of the working space.
- Precise. Precision at very high accelerations and high payloads, as well as at high picking rates and maximum working strokes.

Precisely as required: standardised or customised

Application-specific solutions and control packages





Planar surface gantry EXCH: maximum dynamic response throughout the installation area

For applications for small installation spaces and high dynamic response, we offer you ready-to-install handling systems that make optimum

Describe and request with the Handling Guide Online

Handling systems for specialised requirements

use of the working space, and that are fast and precise.

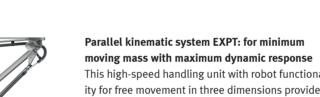
This Cartesian handling system with robotic functionality has excellent dynamic response of up to • Virtually free of vibration 100 picks/min and covers the working space of two • Easy to integrate into systems SCARA robots. The large rectangular working space • Optional: control package CMCA of the XY planar surface gantry makes handling highly flexible with free planar movement. Ideal for assembly or testing cells.

precision in movement and positioning as well as a

high dynamic response of up to 150 picks/min. The

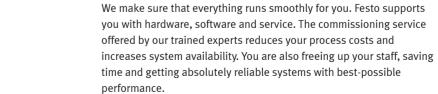
highly rigid kinematics has a pyramid structure.

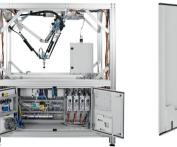
- Extremely compact and flat design
- Excellent dynamic response thanks to extremely small moving mass



Closed mechanical chain with high rigidity

- Drives and motors do not move with the unit This high-speed handling unit with robot functional • Integrated energy chain
- ity for free movement in three dimensions provides Optional: control package CMCA





Control package CMCA

This standardised, decentralised control package for highly ments, for example with freely definable axis geometries for shorter dynamic handling systems is integrated into a control cabinet or on a mounting plate. It offers suitable connections to higherlevel control systems and guarantees easy commissioning and reliability.



Customised control package

Festo offers you control packages that are individually matched to your handling system, integrated into a control cabinet or on a mounting plate. Connection to your own higher-level control systems is also possible.

Commissioning service for axis systems

In addition to flexible standard products, Festo also develops handling

systems based entirely on your individual, industry-specific require-

cycle times or for integration into machines with minimal space

Individually developed

requirements.

The benefits to you:

Optimised performance

Customised solutions for special applications

Fast planning, design and assembly

Optional: customised gripping solutions



- Checking the wiring, connections, motion paths and energy chains. Configuring and parameterising the axes.
- Optimising the control parameters and homing.
- Activating the axes in test mode. • Data backup and documentation.
- Instructions for machine operators

The benefits to you:

- Fast. Time-saving commissioning for maximum cost effectiveness and on-time completion.
- **Reliable.** Our experts ensure long-term reliability of operation for
- **Optimally adapted.** Maximum performance of your system thanks to optimum configuration and parameterisation, including homing.

Flyer_HGO_en_V01.indd 5-8 30.03.2015 11:25:09