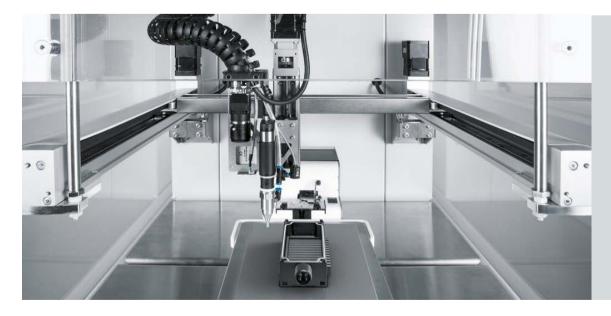
Handling solution for moving and positioning a dispensing head





- Complete system kit comprising kinematics, controller and software
- Precise path travel thanks to interpolating controller
- No programming skills required
- Graphic user interface (sequencer) for simple and reliable generation of program sequences in CODESYS
- Festo Handling Motion Lib with predefined function elements
- High efficiency with maximum time and cost savings: many predefined interfaces to a higher order control system

FESTO

Customer

bdtronic GmbH, a company located in Weikersheim (Germany), is one of the world's leading suppliers of dispensing systems, including complete systems for automating the assembly and production of electronic components.

Project

Handling solution for moving and positioning the dispensing head in a micro-dispensing system.

Requirements -

- Compact, flexible and low-cost solution
- Precision and process reliability
- Interpolated control for precise application of very fine adhesive lines and the application of flexible contours

Solution

- Compact handling systems YXMx as kits
- Kit containing optimally harmonised standard components:
 - Control CECC-X with Soft-Motion
 - Compact planar surface gantry EXCM-30, with a high payload of up to 3 kg in a very compact space
 - Control software based on CODESYS for programming the system without in-depth programming skills

Handling solution for moving and positioning a dispensing head Micro dispenser mini-dis by bdtronic





Handling solution for moving and positioning a dispensing head Micro dispenser mini-dis by bdtronic



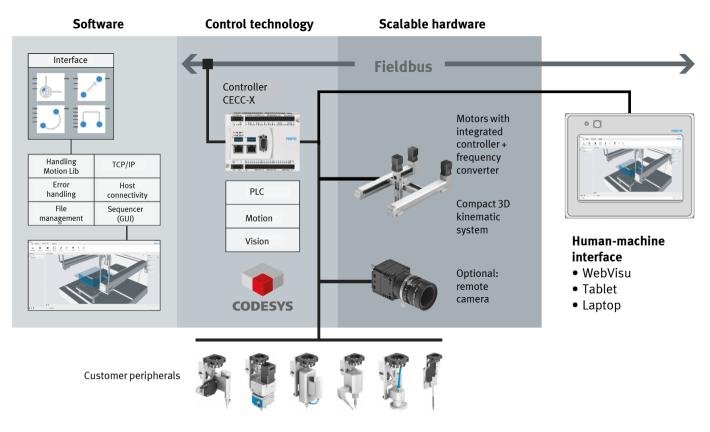


Festo solution:

- 1 X, Y-axis: planar surface gantry EXCM 30
- **2** Z-axis: electric slide EGSK 20-125
- **3** ISO cylinder DSBC
- 4 Controller CECC-X
- 5 Safety system CMGA
- 6 Power supply unit CMGA
- 7 Valve terminal VTUG
- 8 Service unit combination MS4



Handling solution for moving and positioning a dispensing head System structure







Handling solution for moving and positioning a dispensing head Solution components in detail



Controller CECC-X

- Large number of functions in a very compact space
- High performance (dual-core processor)
- Interface variety
- Programming based on CODESYS V3
- Future-safe for Industry 4.0 thanks to OPC UA interface



Compact planar surface gantry EXCM-30

- Stroke length X-axis: 100 ... 700 mm
- Stroke length, Y-axis: 110, 160, 210, 260, 360
- Rated load for maximum dynamic response: 3 kg
- Maximum acceleration: 10 m/s²
- Maximum speed: 0.5 m/s
- Stepper motors with integrated controller and frequency converter



Electric slides EGSK

- Size: 15, 20, 26, 33, 46
- Stroke length: 25 ... 840 mm
- Force: 19 ... 392 N
- Recirculating ball bearing guide and ball screw
- Spindle axes with maximum precision, compactness and rigidity

Other Festo products suitable for bdtronic GmbH





Valve and valve terminal series VG

- Small, compact, with high flow rate
- From individual valves right up to fieldbuscompatible valve terminals
- Ideal for all price-sensitive applications



MS series service units

- High flow rates
- Energy efficient
- Individual configuration
- Integrated sensors



Safety system CMGA

- Configurable and/or programmable
- Reliably monitors command input devices, safety sensors, safety switches, encoders and measuring systems



Power supply unit CACN

• Clamping 100 ... 240 V AC

400 ... 500 V AC

Output voltage 24/48 V DC
Output current 5A, 10A, 20A

5A, 10A, 20A