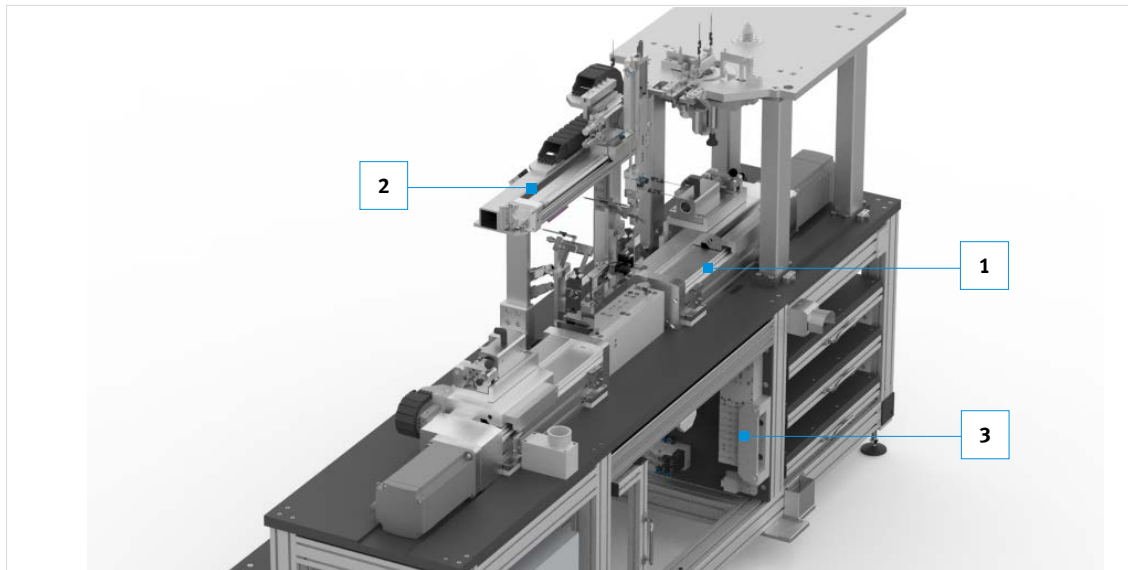


# Pressing application – Sample application



## Highlights

- Precise movements
- High forces up to 3 kN
- All components from a single source
- Easy selection and configuration of the drive packages (electromechanical components, motor and motor controller) with the PositioningDrives software
- On request: ready-to-install systems – fully assembled and tested

## Project

Pressing cartridges into a valve housing

## Requirements

- Precise guidance during pressing
- High positioning accuracy
- Flexible manufacturing

## Solution

### 1 Press-fitting

The cartridge seals are pressed into the valve housing via an electric linear drive with a guided horizontal movement.

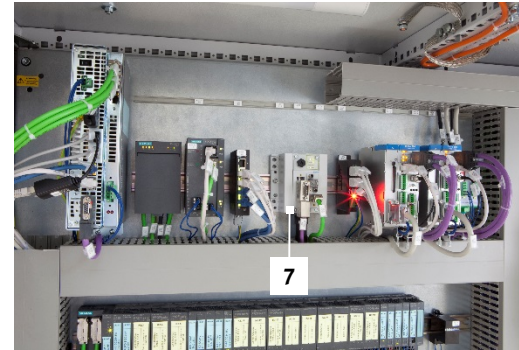
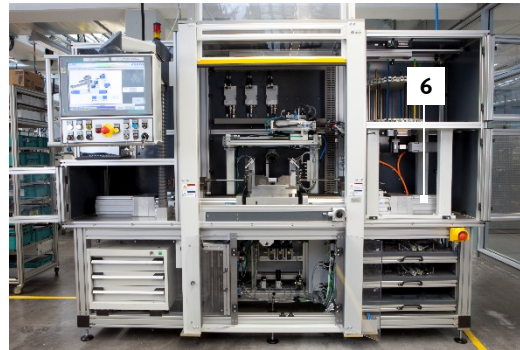
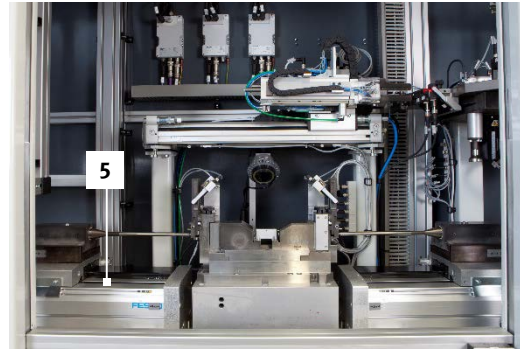
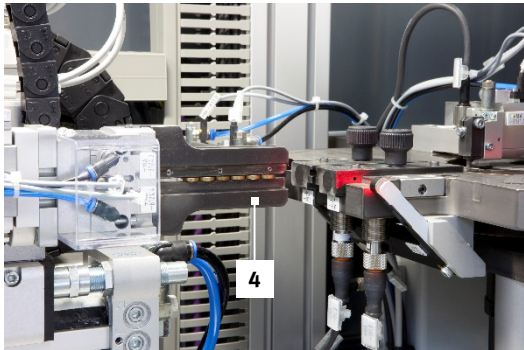
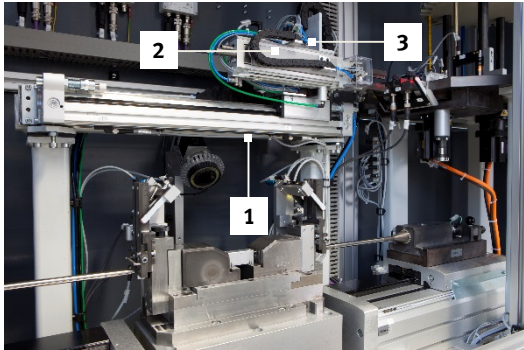
### 2 Feeding

The seal is fed via a pneumatic handling solution, consisting of a linear axis, a rotary unit, a flat cylinder and a gripper.

### 3 Controller

It is all controlled via the valve terminal MPA with a CPX connection.

# Pressing application – Sample application



**FESTO**

## Feeding:

- 1 Linear axis DGC-32-390
- 2 Flat cylinder DZF-12
- 3 Rotary unit DRRD (downstream of DZF)
- 4 Gripper HGPT-25

## Press fitting:

- 5 Linear axis EGC-185-200
- 6 Servo motor EMMS-AS 140

## Controller:

- 7 Controller CPX-CEC
- 8 Motor controller CMMP-AS

# Pressing application – Sample application: Products and solution



**Linear axes**  
EGC / EGC-HD

- Toothed belt or spindle axis
- Size: 50 ... 220
- Stroke lengths: 50 ... 8500 mm
- Force: 50 ... 2500 N
- Optionally with a guide or as a heavy-duty version (EGC-HD) with two guide rails
- Maximum load capacity and rigidity
- Shortest cycle times due to maximum dynamic response
- Modular product with flexible options



**Servo motor**  
EMMS-AS

- Size: 40, 55, 70, 100, 140, 190
- Eight output classes from 100 to 2,000 W
- Torque: 1 ... 120 Nm
- Voltage: 360 ... 565 V DC
- Nominal current: 0.6 ... 14.4 A
- Always fits thanks to universally compatible interfaces
- Digital absolute displacement encoder for single-turn or multi-turn
- Maintenance-free operation thanks to life-time bearing lubrication
- High protection class IP65



**Motor controller**  
CMMx-AS

- Servo motor controller CMMP-AS: Ideal for dynamic movements and electronic control of cam discs
- Servo motor controller CMMS-AS: Strengths include standard applications and positioning tasks with I/O and fieldbus connection
- Servo motor double controller CMMD-AS: operates two servo motors independently of one another
- The safety function STO is integrated as standard: emergency stop requirements with a safe stop SS1 up to category 3



**Controller**  
CPX-CEC

- Control platform to IP65
- On-site installation
- Integrated in a valve terminal
- For easy control of valve terminal configurations with MPA or VTSA

**FESTO**