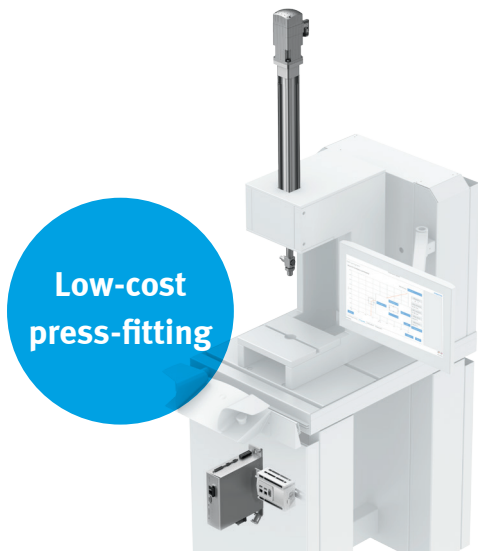


Servo press kit YJKP for electric press-fitting applications



Correctly sized

Highlights

- Appropriately configured
- Less expensive than conventional press-fitting systems
- Software and hardware from a single source
- Pre-installed modular software
- Pre-assembled kit
- Press forces up to 17 kN
- Easy to integrate into your own system concept
- Very high positioning and repetition accuracy
- Compatible with Industry 4.0

The modular servo press kit YJKP gives you just the software functions you need for your application. It provides you with an excellent price/performance ratio for your extremely precise press-fitting system with its high level of repetition accuracy. Simple, cost-effective and quick to install.

Pre-assembled system kit

The right size for every application: the YJKP consists of modular operating software and harmonised standard Festo components. With electric spindle drive, motor, motor controller, force sensor and control system, you have everything you need for electric press-fitting applications up to 17 kN. All you have to do is integrate it into your press-fitting application.

Pre-installed software

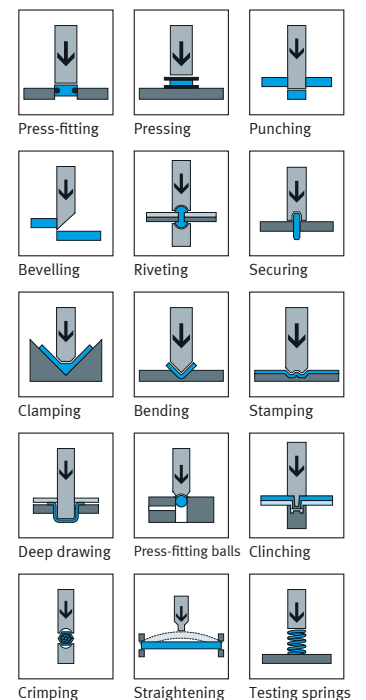
The pre-installed operating software is ready to use straight away and you don't need to be a programming expert to parameterise it, it's that easy and

intuitive. The modular software in CODESYS, featuring application-specific functions, can be used on a PC, iPad or other types of human-machine interface and is compatible with all kinds of platforms. The controller CECC-X with OPC-UA interface makes the system ready for Industry 4.0.

Flexible

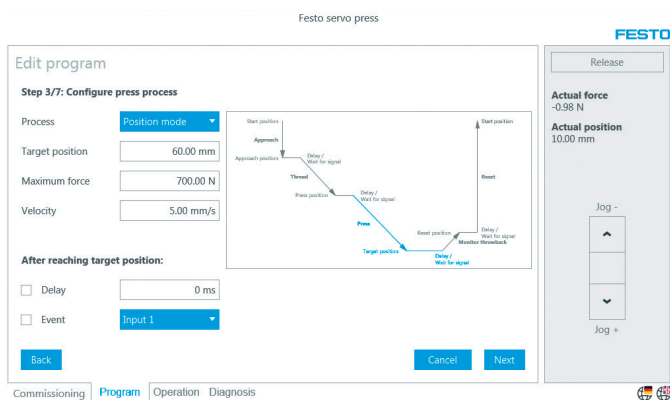
With the YJKP, it is easy to monitor press-fitting applications and lots of other parameters in real time. For example, force, displacement, torque and angle can be monitored during joining, press-fitting, swivelling and rotation processes.

Areas of application



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Modular software for configuration, operation and visualisation



Thanks to the function elements in the software's integrated library, joining processes are quick to configure and easy to implement. Monitoring the process is simple. Everything is displayed clearly and logically:

- Configurator for the joining process: feed/joining path, possible wait times, threading functionality, etc.

- Recording process data for quality assurance
- Recorded force/displacement graph exported as *.csv file
- Analysis functions for the force/displacement graph
- Definition of windows
- Space envelopes
- Through points
- Programmed in CODESYS
- Software is customisable

Technical data

Storage temperature [°C]	-10 ... +60
Operating temperature [°C]	5 ... +40
Stroke length [mm]	100, 200, 300, 400
Force ranges [kN]	0.1 – 0.8; 1.5; 4; 7; 12; 17
Max. feed speed [mm/s]	250
Repetition accuracy [mm]	≤ ± 0.01
Interface	Ethernet, 24 V I/O
Bus systems	ModBus TCP, EthernetIP, Profinet
Configuration via visualisation system	Pressure/displacement diagrams
	Default for good/bad parts
	Visualisation
Max. measurement accuracy of the force class [%]	0.5
Measuring speed for force sensor	1,000 measurements / s
Evaluation method	Windowing
	Threshold value
	Envelope curve
Visualisation	Visualisation by the customer via defined interface for LCD display

System components

