



## Servo presses for assembly lines:

# Standardizing with smart subsystems

**KMS Automation is standardizing pressing and joining tasks in assembly lines using the Smart Function Kit Pressing. The result: Less complexity when it comes to machine design, higher process quality and a shorter time to market.**

Assembly lines built for the automotive industry should be delivered ever faster and, if possible, cover quality assurance at the same time. With the Smart Function Kit from its long-standing partner Bosch Rexroth, the mechanical engineering company KMS Automation is able to deal with this challenge associated with pressing and joining. The first application for the subsystem: An assembly station for pressing in a 230 mm long tube that runs through the interior of an aluminum oil pan. The second requirement: Collecting and forwarding process data for quality assurance purposes.

### Significant time savings and higher productivity

The modular construction of the Smart Function Kit Pressing allows KMS Automation to standardize applications in a wide force range from 2 to 70 kN and avoid complex hydraulic designs. This saves significant amounts of time: The subsystem is selected, configured and ordered completely digitally. After delivery in a package with preinstalled operation software, a software wizard guides users intuitively through the commissioning process and the drive parameterizes itself automatically.

Programming takes place visually using ready-made drag & drop modules which are simply arranged below each other and filled with parameters. Suitable function blocks are available for connecting to the line control system. Monitoring features and ready-made interfaces speed up the collection and transmission of process data for quality assurance and documentation. The major advantage of electro-mechanical systems: They are precise, can be finely controlled and allow various speeds. This increases not only the process quality but also the cycle frequency.

### Challenge

Quickly implementing a servo press in an automotive assembly line including quality data collection

### Solution

Plug & Produce subsystem: best-in-class hardware, intuitive operating software, easy-to-use function blocks

### Result

*“The versatile subsystem from a single source saves valuable time – in engineering, during commissioning, in purchasing and service.”*

Klaus Wurster, Managing Director



### Solved with

Smart Function Kit Pressing

- ▶ Complete mechatronic package, preinstalled operating software
- ▶ Commissioning wizard, graphical sequencing
- ▶ Simple line integration, data collection and transmission



◀ Direct link to the website