

PIN MOUNTING [CRANKSHAFTS]

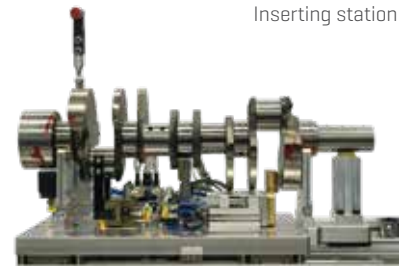
SAMPAS

efficient robot solutions

ROBOTIC SYSTEMS
AND AUTOMATION SOLUTIONS



Inserting station



Clamping device

Your Task > our solution:

Inserting three cylinder pins into a crankshaft. The cylinder pins must protrude by a tolerated residual length.

The crankshaft is inserted into a clamping device either by hand or by a loader and oriented to the pin bearings. The locating holes face upwards. The mounting fixture can be moved longitudinally on an NC axis. The pins are added using a vibration feeder in a standing, correct position. The drill hole is scanned for mechanically by a stylus in order to compensate for production tolerances

in the shaft, thus ensuring fault-tolerant joining. Checks are carried out that the pins are present before insertion. A pneumatic processor places the pin in the drill hole. The pin is positioned and held while the insertion unit inserts the pin over the fingers. Then the shaft is moved to the next drill hole and the next pin is placed and inserted.

Your benefit:

- + Saving personnel costs through automation
- + Secure handling
- + Optimisation of cycle times

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Technical details:

Workpiece Length Weight Diameter of drill hole Diameter of pin	Crankshaft 670 mm 20 kg 3.16 mm 3.18 mm
Dimensions of cell	2 400 x 2 000 mm
Cycle time	2 minutes line time
Insertion drive	max. 10 kN
Insertion	pneumatic/hydraulic optional: force-displacement monitoring
Vibratory spiral conveyor	automatic sortation and feeding device, single track, Monitoring of present
Control	Siemens SPS S7

Our services:

- Project planning and management
- Programming
- Electronic and mechanical design
- Commissioning
- Production interfaces
- Manufacture and assembly



Vibratory bowl

EVERYTHING FROM A SINGLE SOURCE

Thanks to our integration into the **PÜTZ GROUP** and the resulting **synergy effects** we are able to offer you not only Robotic systems and automation solutions but also the appropriate testing technology to test surfaces and dimensional accuracy and completeness.

SAMPAS GmbH takes care of everything:

... project planning
and programming,
project management,
production interfaces, activation,
operational approval, production
oversight and much more!

**We look forward
to hearing from you!**

Sampas GmbH

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