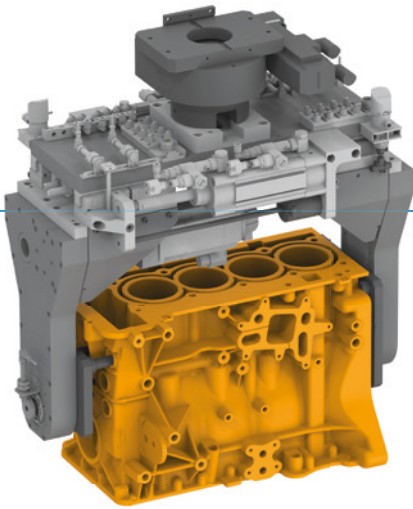


HANDLING SYSTEM FOR CYLINDER BLOCKS

Z01SYS114154

▶ PRODUCT INFORMATION



- ▶ The handling system is used for loading and unloading machining centers within a production line for 3 and 4-cylinder blocks. Due to different loading and unloading situations of the individual device variants within a production line, the handling system must be capable of adapting flexibly to the specific workpiece orientation. For this purpose, pneumatic or servo-electric rotary axes can be integrated as modules.

▶ CHALLENGE

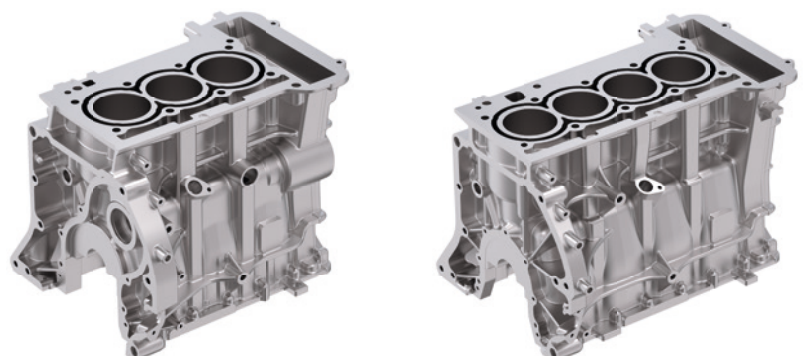
- ▶ Front side as a reference point for all types
- ▶ Flexible workpiece orientation around 2 axes
- ▶ Optimized media routing
- ▶ Application in wet machining

▶ SOLUTION

- ▶ Dominant force stroke for a uniform reference point
- ▶ Servo swivel axes
- ▶ Internal media routing
- ▶ Sealed swivel axis

▶ WORKPIECE

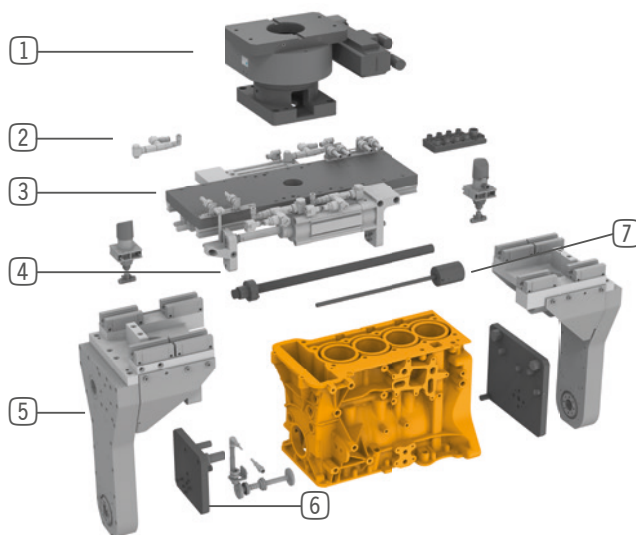
- ▶ Workpiece weight 45 kg
- ▶ Workpiece height up to 300 mm
- ▶ Workpiece length: 350 to 420 mm
- ▶ Swivel diameter up to 420 mm



▶ TECHNICAL DATA

Product	3 and 4-cylinder block
Gripping technology	Front-side form fit
Workpiece weight [kg]	45
System weight [kg]	130
Drive type	Pneumatic/electric

▶ FUNCTIONS IN DETAIL



- ① Servo swivel unit (C-axis)
- ② Pressure control valve as a safeguard in case of pressure loss
- ③ Gripper module dominant on one side, closing on opposite side
- ④ Swivel jaw synchronization
- ⑤ Servo swivel jaw (A-axis)
- ⑥ Workpiece-specific jaw design
- ⑦ Clamping element for flexible workpiece securing

▶ MORE INFORMATION/CROSS REFERENCES

▶ Cylinder block
Z01SYS114180

▶ Cylinder block
Z01SYS114155

