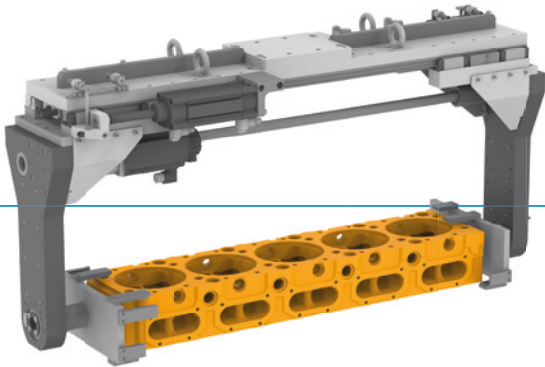


# HANDLING SYSTEM FOR CYLINDER HEADS

## Z01SYS114155

### ▶ PRODUCT INFORMATION



- ▶ The handling system is used for loading and unloading machining centers within a production line for cylinder heads (6-cylinder). 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 the longitudinal axis of the workpiece
- ▶ Gripping and aligning by means of outer contours
- ▶ High positioning accuracy ( $\pm 0.25\text{mm}$ )

### ▶ SOLUTION

- ▶ Dominant force stroke for a uniform reference point
- ▶ Servo swivel jaws
- ▶ Contour-related holding strips
- ▶ Dominant stroke and a low-backlash swivel axis

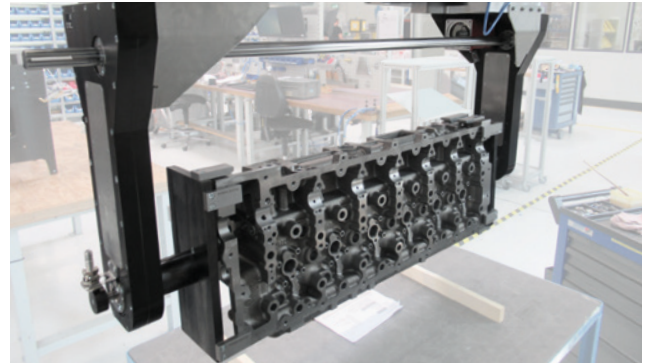
### ▶ WORKPIECE

- ▶ Workpiece weight 150 kg
- ▶ Dimensions: 900x350x150 mm

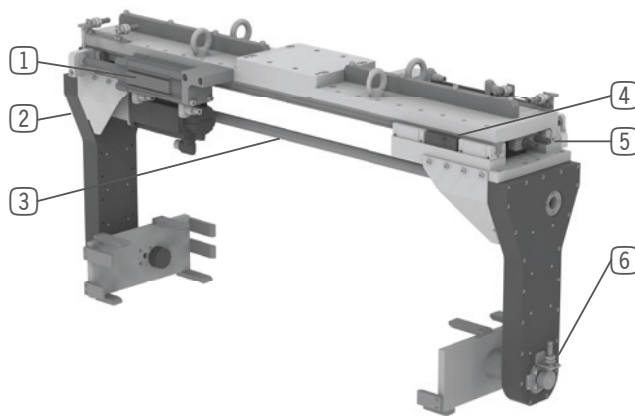


## ▶ TECHNICAL DATA

Product	Cylinder head (6-cylinder)
Gripping technology	Form fit
Workpiece weight [kg]	150
System weight [kg]	122
Drive type	Pneumatic/electric



## ▶ FUNCTIONS IN DETAIL



- ① Dominant cylinder
- ② Servo swivel jaw
- ③ Swivel jaw synchronization
- ④ Clamping element
- ⑤ Adjustable stop with damping
- ⑥ Workpiece sensing via spring plunger

## ▶ MORE INFORMATION/CROSS REFERENCES

▶ Cylinder block  
Z01SYS114154

▶ Cylinder block  
Z01SYS114180

