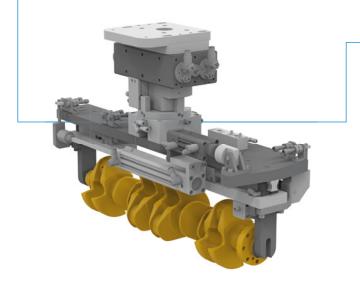
# HANDLING SYSTEM FOR CRANKSHAFTS Z01SYS114158

#### PRODUCT INFORMATION



The handling system is used for loading and unloading machining centers within a production line for 4 and 6-cylinder crankshafts. In the final operations, the crankshafts are only gripped on the front side in order to avoid damage to the finished bearings.

# CHALLENGE

- Large differences in the lengths of the individual shaft types
- Approach from various positions

- Flange side as the reference point for all lengths
- Rotation of shafts by 90°
- Optimized media routing

#### SOLUTION

- > 2-stage closing stroke (small and large workpiece length)
- > Dominant force stroke for a uniform reference point
- Pneumatic swivel unit with rotary distributor
- Securing of the gripper position by clamping

#### **WORKPIECE**

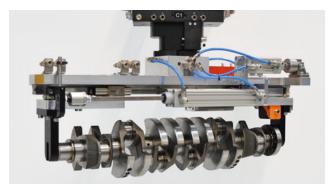
- Up to 30 kg workpiece weights
- Workpiece lengths from 475 mm to 660 mm



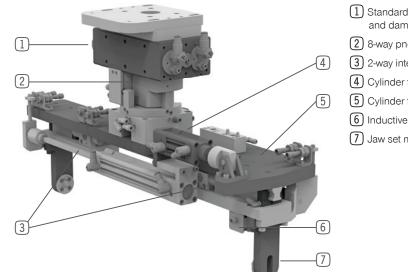
### TECHNICAL DATA

Product	Cra
Gripping technology	For
Workpiece weight [kg]	25
System weight [kg]	36
Drive type	Pn





## **FUNCTIONS IN DETAIL**



- 1 Standard 90° swivel unit with end position sensing and damping
- 2 8-way pneumatic rotary distributor
- 3 2-way integrated clamping element
- 4 Cylinder for inside micrometer adjustment and free stroke
- 5 Cylinder for dominant stroke
- 6 Inductive workpiece presence sensing
- 7 Jaw set made of hardened steel

## MORE INFORMATION/CROSS REFERENCES

- Crankshaft (front side) 01SYS001801-02
- Crankshaft (front side) 01SYS002129-01
- Crankshaft (diameter) 01SYS000864-13

