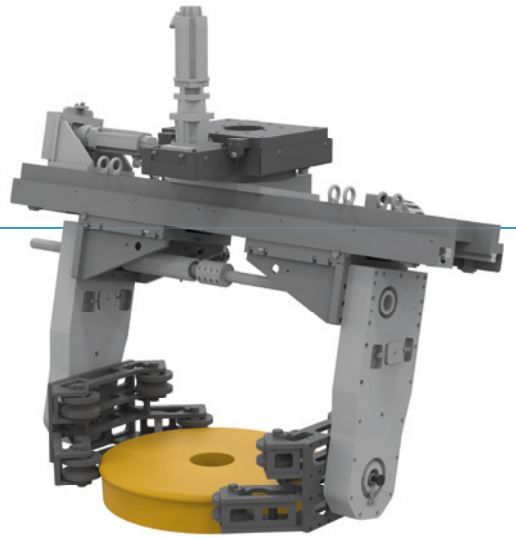
HANDLING SYSTEM FOR RAILWAY AXLES
Z01SYS114183

▶ PRODUCT INFORMATION



- Handling system for loading and unloading machining centers with different types of railway wheels and brake discs. Corresponding to the part geometry, the wheels are picked up via a two-stage jaw set. Servoelectric swiveling axes above the gripper system and servo swiveling axes integrated into the gripper fingers ensure smooth reorientation of the workpieces in the gripper. The securing of the workpieces in the gripper is implemented via the self-locking mechanism of the spindles.

▶ CHALLENGE

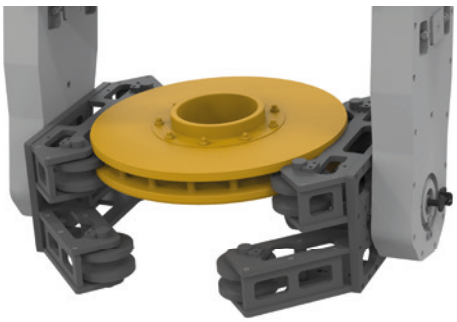
- High workpiece weight
- High torques for the swivel jaw
- Limited carrying capacity of the gantry
- Gripping brake discs and railway wheels without changing jaws or grippers
- Workpiece holder

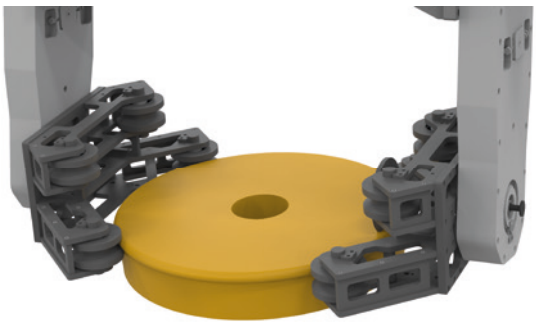
▶ SOLUTION

- A-axis with 500 Nm drive
- C-axis
- Weight-optimized design
- Two-stage jaw set according to the respective part geometry
- Self-limiting threaded spindles in the gripper module

▶ WORKPIECE

- Workpiece weight 550 kg
- Diameter range of 640 – 1000 mm

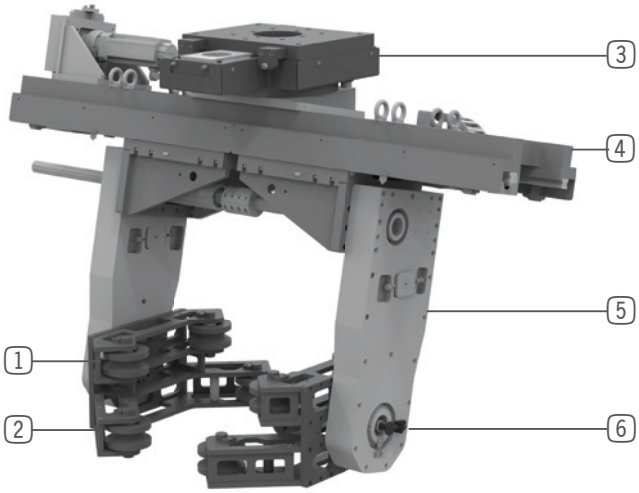




▶ TECHNICAL DATA

Product	Railway wheel & brake disk
Gripping technology	Form fit
Workpiece weight [kg]	550
System weight [kg]	800
Drive type	Servo-electric

▶ FUNCTIONS IN DETAIL

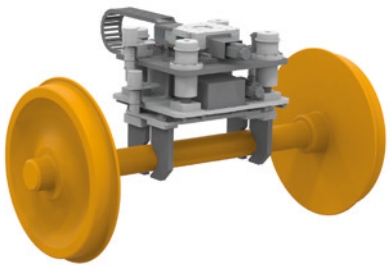


1. Jaw set for brake disks
2. Jaw set for wheels
3. Servo swivel unit (C-axis)
4. Gripper module
5. Servo swivel jaw (A-axis)
6. Part presence sensing

▶ MORE INFORMATION/CROSS REFERENCES

▷ Railway side frame
KOMP6026

▷ Railway axle
01SYS002696-01



▷ Railway axle
01SYS001223-01