

Interlinking of the axle line

Automation for the production of railway axles



Industry

Railway



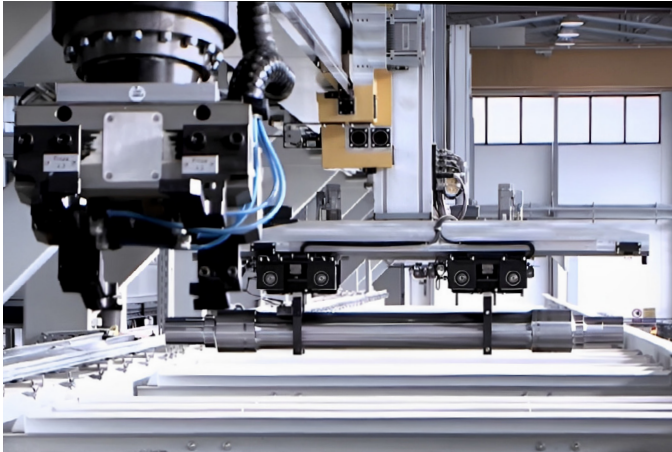
Processes

Loading and unloading of processing and testing machines for railway axles

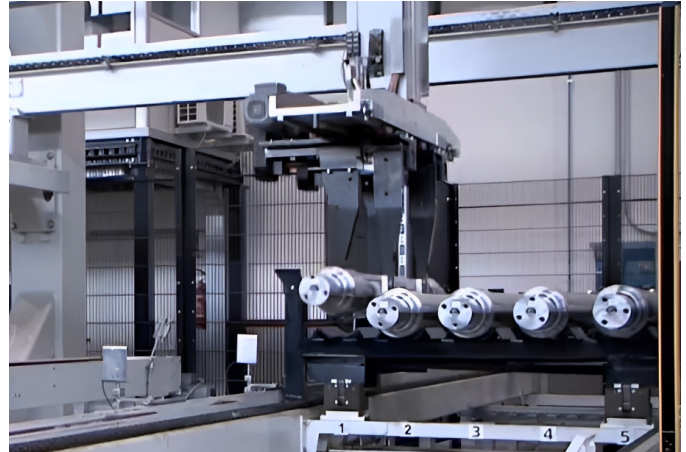


Key Data

- Workpiece: Railway axle with 200-1000 kg
- Güdel key technology:
 - 1 × 2-axis gantry ZP-6
 - 2 × Axle grippers with servo motor
 - 1 × Gripper for tool changing
 - 1 × Feeding unit for axle bundles
 - 2 × Exit stations for finished axles
 - 10 × Buffer stations
 - Safety equipment
 - Assembly & commissioning



Güdel gantry with axle gripper loads the machines



Güdel gantry deposits a finished axle onto outfeed pallet



Process Description

The production of railway axles requires various mechanical processing steps as well as the testing of axles. To achieve a higher efficiency and labour security, the individual steps are to be sequenced by means of a highly automated interlinking technology.

17 different types of axles

One linear gantry of size 6 with two carriages automates the machining and testing line of railway axles. 11 processing and testing machines are loaded and unloaded through the complete axle line. Every 23 minutes, an axle is produced, which means that 12'000 axles of 17 different types can be produced per year.

Flexible axle gripper

To be able to handle a wide variety of axle lengths and diameters, the axle grippers can be adjusted in different directions by the servo motor.

Customer satisfaction

In the meantime, multiple systems with similar applications are in operation at customer's site. During the entire life cycle of the automation solutions, the customer is supported by Güdel to ensure the maximal productivity of the automation line.

Güdel Technology

- Automation of production and testing lines of railway wheels, axles and wheel sets
- 2-axis and 3-axis gantries, grippers, floor conveyors
- Buffer and storage systems
- Reading and marking systems
- Sequence and process optimization for maximum output of the machines
- Worldwide production, assembly and customer services



Güdel Germany GmbH

We, Güdel Germany, a subsidiary of Güdel Group AG with headquarter in Langenthal, Switzerland, are a solution provider for industrial automation. We are specialized in robotics applications, automation solutions and prime care. We support our customers along the complete journey from sales over design, assembly, commissioning to after-sales. With high speed, high precision, heavy payload, maximal availability and reliability all in one, Güdel is your global partner for your individual automation solutions.

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