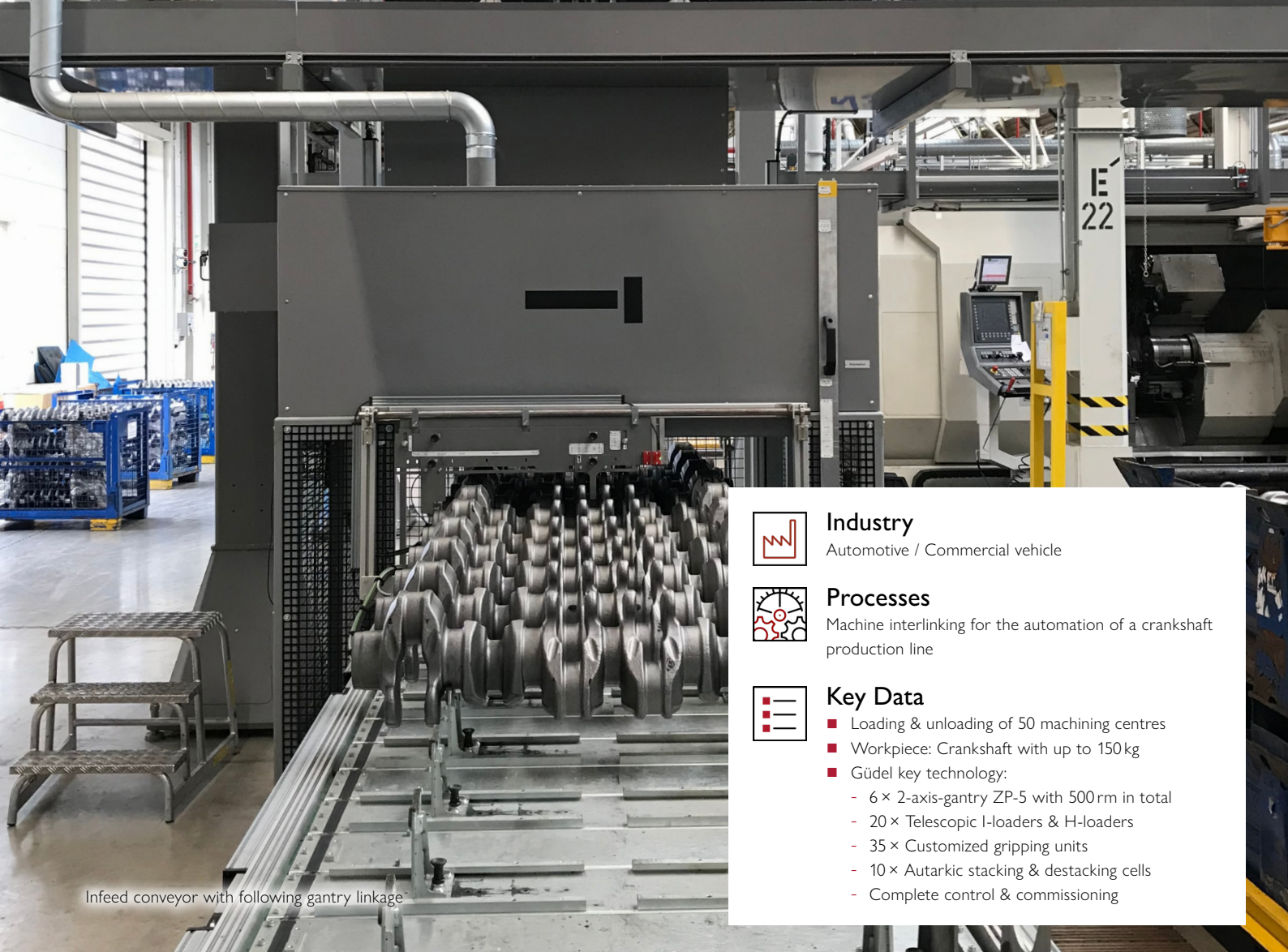
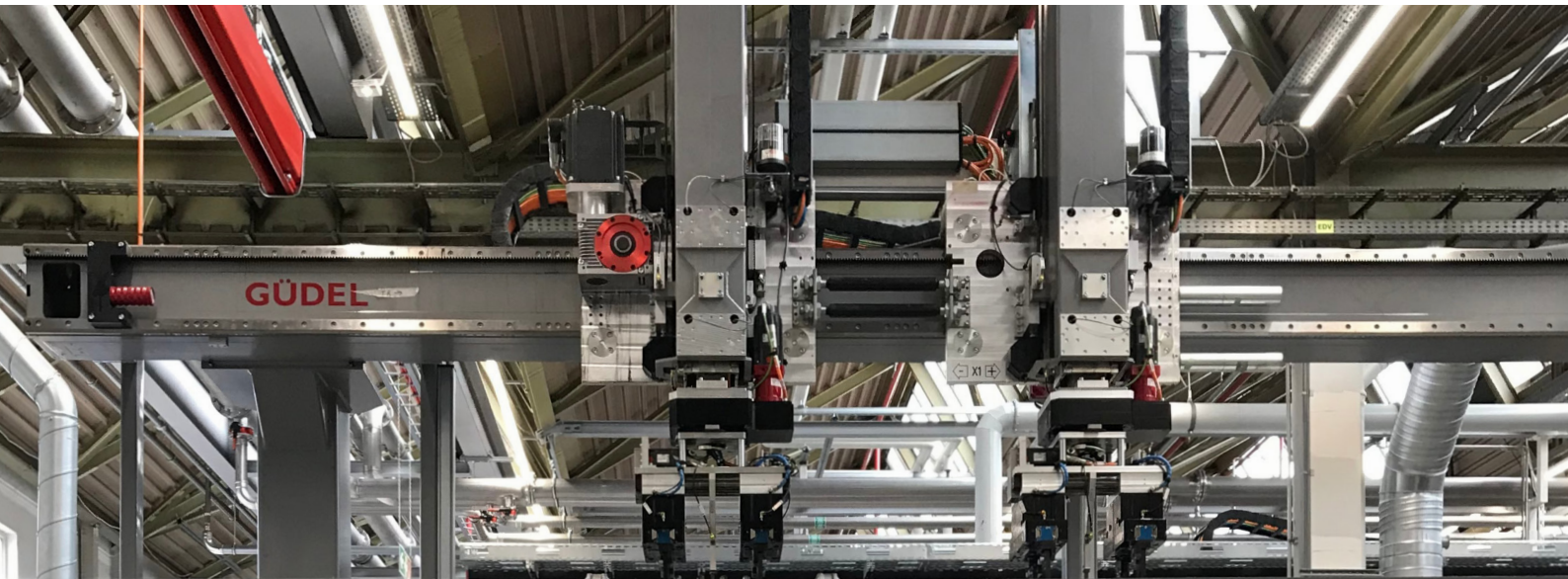


Automated Crankshaft Line

Complete production line for commercial vehicle crankshafts



Industry

Automotive / Commercial vehicle



Processes

Machine interlinking for the automation of a crankshaft production line



Key Data

- Loading & unloading of 50 machining centres
- Workpiece: Crankshaft with up to 150 kg
- Güdel key technology:
 - 6 × 2-axis-gantry ZP-5 with 500rm in total
 - 20 × Telescopic I-loaders & H-loaders
 - 35 × Customized gripping units
 - 10 × Autarkic stacking & destacking cells
 - Complete control & commissioning



Concept layout for the automation of a crankshaft production line



Process Description

Process-safe machine interlinking

The rough parts are loaded into the gantry linkage by an indexing conveyor. For part tracking, a DMC is lasered onto the workpiece at the beginning of the production process. Afterwards, the crank-shaft is loaded into and unloaded from 50 different machining centres by gantry loaders, such as milling, turning, hardening, grinding, washing, measuring and testing. With the autarkic stacking cells, on-site disturbances and interruptions can be bridged. At the end of the line, the finished parts are automatically packed into the designated containers.

Efficiency boost

One finished part every 240 seconds with Güdel gantry solution. With the

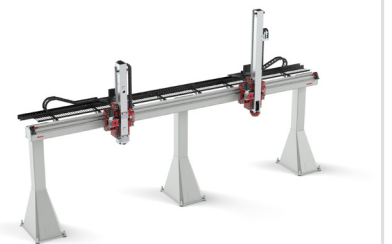
high accuracy and quality of the gantries as well as the flexible and intelligent control technology, Güdel team realizes the optimal process automation. Thus, the processing machines are fully utilized and the production efficiency is significantly increased.

Life-long customer care

The highest performance is maintained by Güdel Prime Care Team. With the rapid delivery of spare parts in original Swiss quality, regular maintenance, repair, as well as condition monitoring, Güdel supports the customer along the entire life cycle of the automation solution.

Güdel Technology

- Automation of the production line of crankshafts for trucks
- 2-axis-gantry and in-house designed gripping unit
- Factory automation
- Machine- & process interlinking
- 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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