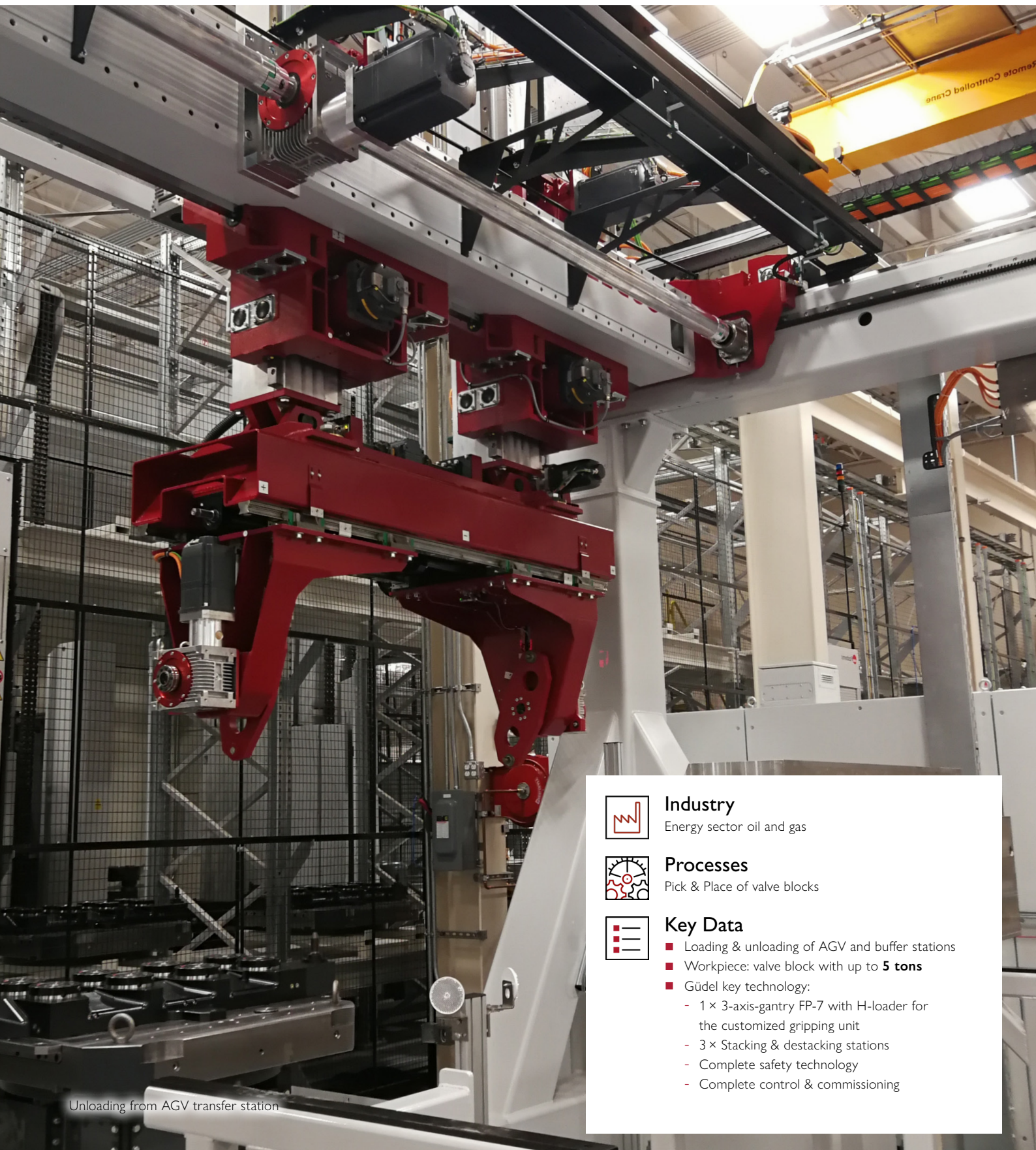


Valve Block Pick & Place

Loading and unloading of floor conveyor equipment



Industry

Energy sector oil and gas



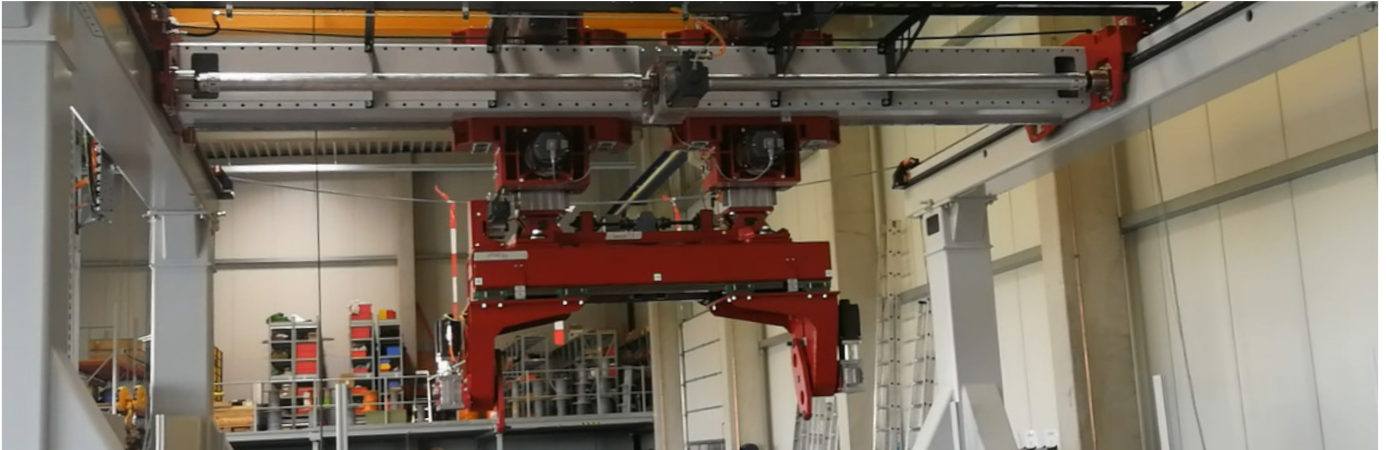
Processes

Pick & Place of valve blocks



Key Data

- Loading & unloading of AGV and buffer stations
- Workpiece: valve block with up to **5 tons**
- Güdel key technology:
 - 1 × 3-axis-gantry FP-7 with H-loader for the customized gripping unit
 - 3 × Stacking & destacking stations
 - Complete safety technology
 - Complete control & commissioning



Güdel gantry with the gripping unit assembled on the H-loader



Process Description

Safe handling of workpieces

The rough workpieces are transported into the gantry area by an AGV. The workpiece carriers are positioned accurately by means of a centring device. Then the gripper takes the workpiece from the carrier and places it onto a buffer station. After that, the gripper places the finished part from another buffer station back onto the workpiece carrier. The AGV then leaves the gantry area with the finished part.

Afterwards, the gripper moves back to the buffer with the rough workpiece, grips the part, rotates it by $\pm 90^\circ$ and places it on a shuttle. The shuttle then transports the part into the machining area.

Especial Challenges

In order to handle the sensitive workpieces weighing up to 5 tons precisely and carefully, Güdel has developed a workpiece-specific gripping technology including a horizontal rotating axis.

Life-long customer care

This solution is located in the USA and is supported by the local Güdel Prime Care team with efficient support and services throughout the entire life cycle of the automation solution.

Güdel Technology

- Automation of the valve block production
- 3-axis-gantry und in-house designed gripping unit
- Factory automation
- Machine- and 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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