

Gantry system for large workspaces

FP-5-HP



Modular design

Continuous-duty capable

Flexible integration

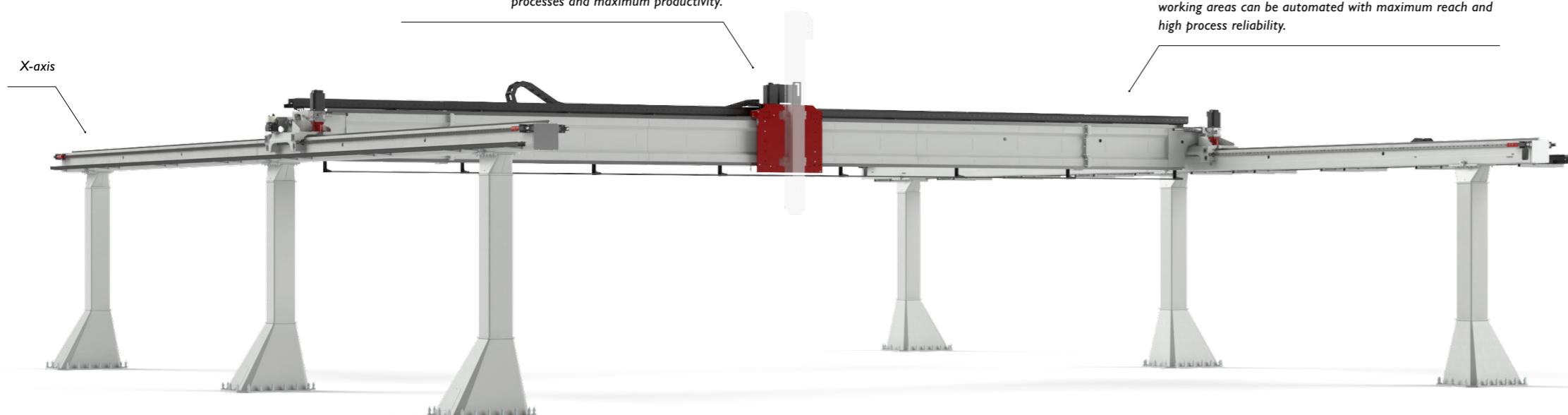
High-performance gantry for large workspaces

Production processes with large working areas require maximum performance, high process reliability and system availability. The FP-5-HP area gantry was specifically developed to meet these requirements and provides a reliable platform for highly dynamic automation solutions.

The stiff bridge design, with a stroke of up to 14 m, enables short cycle times even under heavy payloads, enhancing productivity and overall system efficiency. At the same time, the compact design of the moving

components ensures precise, fast movements and safe handling of workpieces, even under varying loads and complex process conditions.

The FP-5-HP is a powerful solution for tire and wheel logistics, intralogistics as well as pick-and-place and process applications involving large components. Thanks to floor mounting with a minimum concrete thickness of 220 mm, the gantry can be integrated easily and cost-effectively into existing production environments.



Application areas



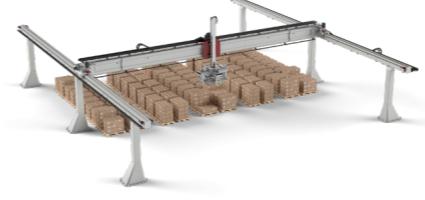
Pick-and-Place: Highly dynamic solutions for precise handling, short cycle times and high process reliability.



Tire and Wheel Handling: Automated solutions for handling tires and wheels from the end of curing through to shipping preparation.



Crates Handling: Efficient systems for handling crates and containers with high throughput and reliable material flow.



Layer Picking: High-performance solutions for fast and precise palletizing and depalletizing of complete layers.



Process Applications: Automation solutions for process-related applications requiring high precision and repeatability.



Wooden Components: Automation solutions for precise handling, processing and assembly of wooden components.

Performance data – Y-axis bridge

14 m

Max. payload Y-axis carriage up to

1,100 kg

Y-axis speed

3.75 m/s

Y-axis acceleration

5 m/s²

Flexible adaptation to different system layouts

Configurable X-axes, modular supports and a flexible interface for Z-axes and grippers enable precise adaptation to a variety of system layouts. The modular design allows for extensions and adjustments to meet new requirements, including integration with existing systems.

Reliable in industrial operation

The Y-axis carriage serves as the central interface for grippers and Z-axes and is designed for a total load of up to 1,100 kg including the workpiece. The drive system, based on hardened Güdel rack-and-pinion systems combined with high-stiffness Güdel planetary gearboxes, ensures precise movements, high feed forces and long service life in continuous operation.

The compact anchoring system allows floor mounting starting at a concrete thickness of 220 mm and facilitates integration into existing production environments. Service-friendly components contribute to short downtime and a stable, predictable system operation.

Engineered and made in Switzerland

We have stood for the highest quality and reliability for over 70 years.

Intelligent and complete solutions

From individual components to complete automation solutions – everything from one single source.

Highest precision

and maximum accuracy

In-house manufactured racks, pinions and gearboxes for maximum precision – that is in our DNA.

Transporting heavy loads

over long distances

Market leader in moving loads of up to 3 tons over 100 meters.

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Durable products for sustainable efficiency – proven and tested over many years.

Global presence, local expertise

With around 1,000 employees working worldwide at over 20 locations.

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