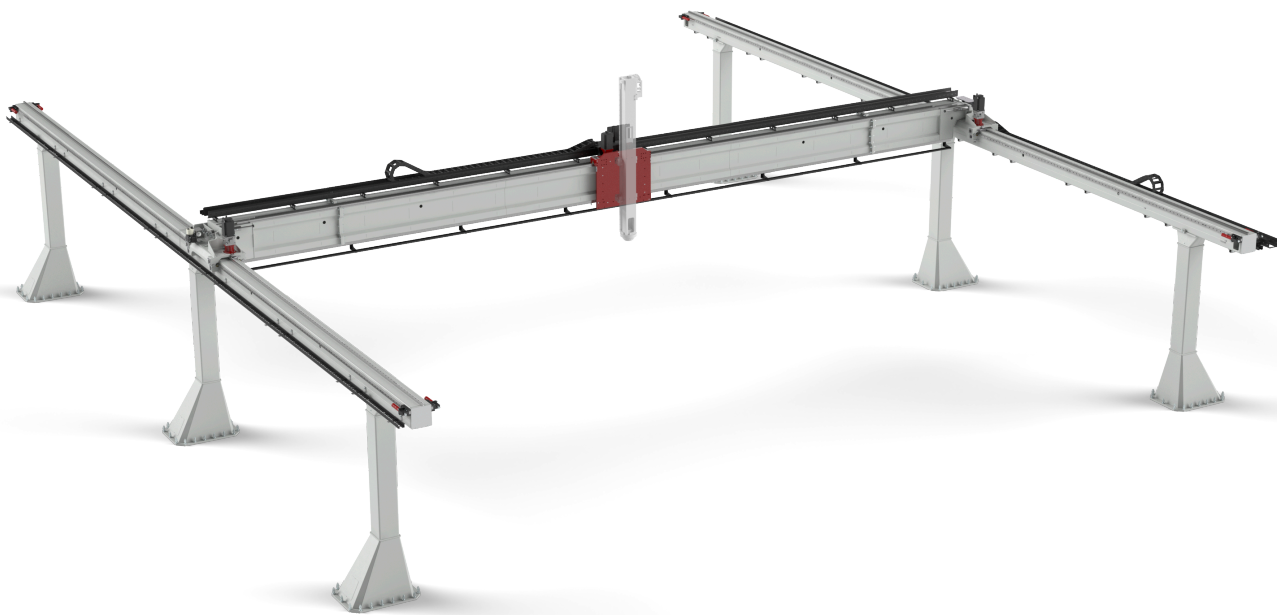


# FP-5-HP

Area gantry with long stroke, high dynamics and high payload



The high-performance area gantry FP-5-HP features a powerful Y-axis for automating extremely large working areas with high dynamics. The rigid bridge design with an exceptionally long stroke of up to 14 m enables short cycle times even under heavy payloads and increases overall system performance. Configurable X-axes and modular supports extend the three-dimensional workspace and allow flexible adaptation to different system layouts. The FP-5-HP is suitable for tire and wheel handling, crate handling, wooden components handling and large parts handling, as well as for layer picking, pick-and-place and process applications.

The Y-axis carriage serves as the central interface for grippers and Z-axes and is designed for a total load of up to 1.1 tons 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 a long long service life. The compact anchoring system allows floor mounting with a minimum concrete thickness of 220 mm.

Performance data – Y-axis bridge

**14 m**

Max. payload Y-axis carriage up to

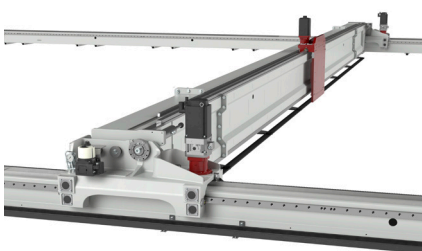
**1,100 kg**

Y-axis speed

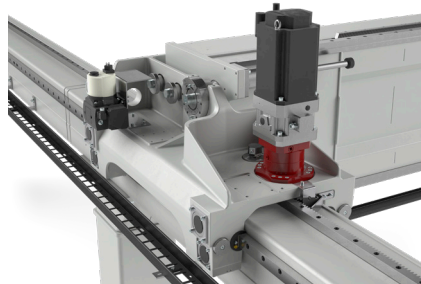
**3.75 m/s**

Y-axis acceleration

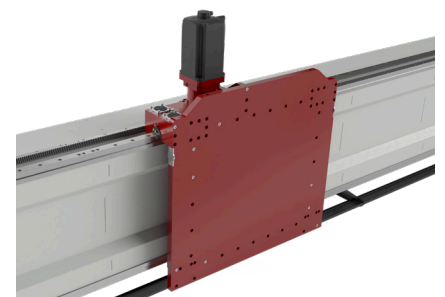
**5 m/s<sup>2</sup>**



Y-axis (bridge)



X-carriage unit



Y-carriage unit

## Compatibility / options

Configurable X-axes

Z-axes and customer-specific grippers

Extendable supports and gantry lengths

Integration into Güdel control systems

## Application Areas

Tire and Wheel Handling

Layer Picking

Handling of large components

Pick-and-Place applications

Process applications

Intralogistics

FP-5-HP area gantry with rigid bridge, modular design and flexible interface for grippers and Z-axis



Scan QR code to find the suitable FP-5-HP

## Technical Data

Load capacity Y-axis carriage	<b>1,100 kg</b>
Payload Z-axis	<b>500 kg (vertical axis)</b>
Y-axis stroke	<b>up to 14 m (bridge)</b>
Z-axis stroke	<b>Standard stroke up to 2 m or application-specific (vertical axis)</b>
Dynamics X-axis	<b>Speed up to 3 m/s, acceleration up to 3.5 m/s<sup>2</sup></b>
Dynamics Y-axis	<b>Speed up to 3.75 m/s, acceleration up to 5 m/s<sup>2</sup></b>
Dynamics Z-axis	<b>Speed up to 3 m/s, acceleration up to 6 m/s<sup>2</sup></b>
Drive system	<b>Rack-and-pinion drive with hardened helical gearing, Güdel planetary gearbox NGHP140</b>
Leveling	<b>Vertical leveling via floor leveling kit on support legs, Lateral leveling via beam leveling kit</b>
Noise emission	<b>max. 75 dB(A)</b>

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Güdel technology is characterized by innovation, modularity, and quality. Güdel employs around 1,000 people at over 20 locations worldwide. The group of companies has been owned by the founding family since its inception.