

Robotics

FP-5-HP – Best combination of longest stroke, high dynamics and heavy payload

With the ideal ratio between stiffness and moving mass



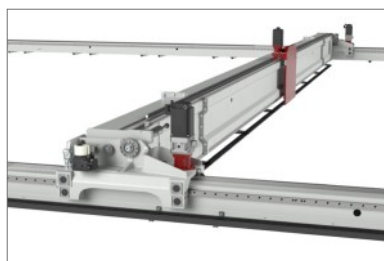
With the FP-5-HP area gantry, Güdel offers Y-Axis (Bridge) with up to 14 m stroke to cover large working areas and high dynamics to improve overall system performance. Extendable X-axis and configurable leg height further enables to enlarge three-dimensional workspace.

FP-5-HP is suitable for tire/wheel handling, crates handling, layer picking, wooden components handling, large parts handling, process application, general pick & place etc. In short FP-5-HP can be used to automate any

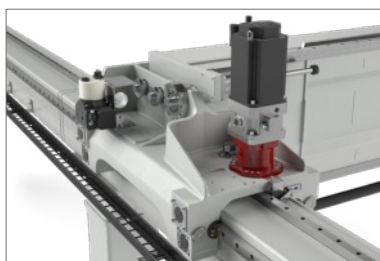
application that will need to cover largest working areas with high dynamics.

Y-Carriage, which acts as an interface, can easily be adapted to mount different types of grippers and Z-Axis with total load of up to 1100 kg including component weight.

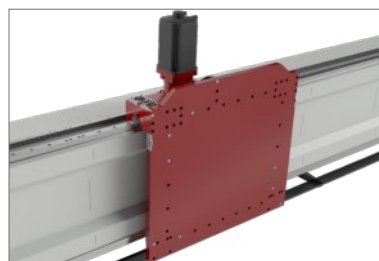
Drive mechanism consists of hardened racks that are suitable for high feed forces along with the planetary gearbox known for high rigidity and low backlash.



Y-Axis (Bridge)



X-Carriage



Y-Carriage

Impressive features of the FP-5-HP from Güdel:

- Y-Axis (Bridge) with maximum 14 m stroke and that too with high dynamics
- Light weight and compact design, yet robust to handle heavy loads
- Specially designed modular gantry with ease of installation and minimum maintenance
- Y-Carriage, gantry interface, designed to be compatible with different grippers and Z-Axis
- Anchoring system requires only 220 mm of concrete thickness

Load on Y-Carriage	1100 kg
Payload for Z-Axis (vertical axis)	500 kg
Y-stroke (Bridge)	Up to 14 m
Z-stroke (vertical axis)	Standard 2 m or Application specific
Dynamic	X-Axis: velocity of up to 3m/s and acceleration of up to 3.5m/s ² Y-Axis: velocity of up to 3.75m/s and acceleration of up to 5m/s ² Z-Axis: velocity of up to 3m/s and acceleration of up to 6m/s ²
Drive system	Racks and pinions with helical gearing and hardened. Güdel planetary gearbox NGHP140
Leveling	Vertical leveling due to floor leveling kit at support legs Lateral leveling due to beam leveling kit
Noise emission	Max. 75 dB (A)

Güdel Group

Güdel is a manufacturer of high-precision machine components and provider of sophisticated automation solutions. Its spectrum of products ranges from linear guideways, racks, pinions and drives right through to linear axes and gantry robots. Güdel assembles its products into systems with a high

degree of control intelligence and complete plant installations, which can be used in the automotive, tire, metal, rail, intralogistics, pharmaceutical, renewable energy, wood, and aerospace industries. Güdel's technology is characterized by its innovation, quality and modularity.