



Project Info 25

- Type of machine: Gantry machining centre VPC 55
- Task: Efficient machining of a wide variety of workpieces with high setup effort
- Workpieces: Transfer tools, and progressive tools; general steel construction
- Solution:
- Machine design without a fixed machine table. Instead, zero-point clamping systems are integrated into the machine frame to accommodate customer-specific clamping pallets.
 - Machine operators can set up a clamping pallet in parallel with main machining time.
 - The exchange of clamping pallets is performed using a crane.
- Special features:
- Enlarged door opening of 3800 mm for easier loading of clamping pallets onto the lifting system.
 - The hydraulic lifting system allows the clamping pallets to be gently lifted into and out of the zero-point clamping systems.
 - Guides roughly align the clamping pallets when inserting them with the crane..

Technical data:

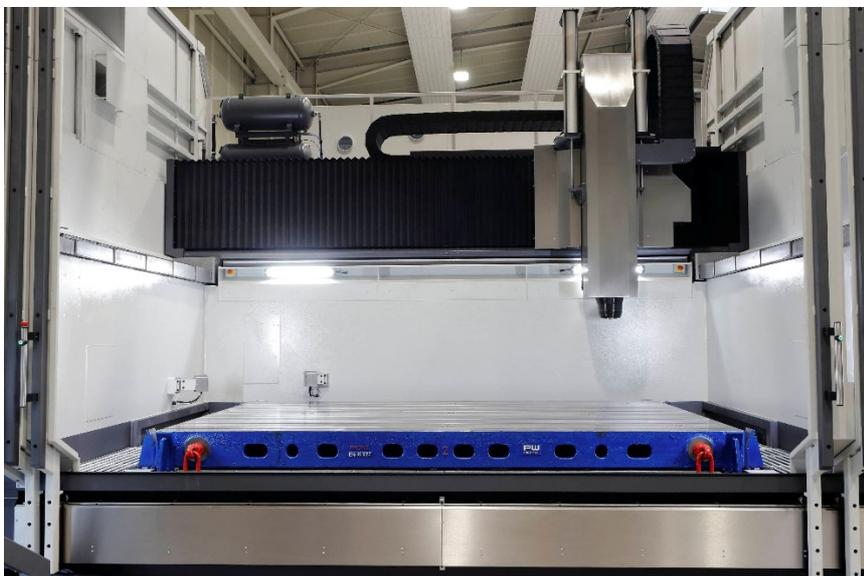
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|---|---|
| X-traverse range: Y-traverse range: Z-traverse range: | 3400 mm 2200 mm 1000 mm |
| Clamping surface: | Clamping pallets with a surface of 3400 x 1900 mm |
| Power (with 40% DC): Torque (with 40% DC): Speed range: | max. 56 kW max. 357 Nm 10000 rpm |
| Tool changer: | M-tool changer with 110 tool pockets, HSK A 100 |
| CNC-system: | Heidenhain TNC640 |
| Additional equipment: | <ul style="list-style-type: none">▪ Linear roller guides▪ Laser measurement system LC53-Digilog for tool measurement▪ Collision monitoring Marposs Brankamp CMS▪ Operating mode 3 without consent button▪ Enclosed working area cover▪ Extraction system▪ Hand operation flushing gun with hose reel▪ Touch probe Hexagon m&h RWP38.41▪ 800-liter emulsion tank with belt filter system and upstream magnetic separator▪ Recooling system▪ Integration of customer-supplied hydraulics for the clamping pallets▪ Integration of customer-supplied magnetic clamping technology |



VPC without machine table



Zero-point clamping systems integrated into the machine frame.



Clamping pallet fixed using zero-point clamping systems.