

Horizontal Special Machining Center with HV Milling Head

This machining center was designed for the complete machining of flatbed laser components for the company TRUMPF. The machine assembly groups are optimized for a dynamic, highly precise and flexible machining of large elements.

The one-part machine base and column made of composite material is constructed inherently rigid, with optimal vibration-reduction and heat-resistance. The work unit with a newly designed fork-type milling head and high-capacity motor spindle is suitable for aluminum as well as steel cutting. The tool changing process is carried out by a robot (equipped with double-gripper). Up to 339 tool slots are available in the tool arena.

The travelling CNC-rotary table is equipped with a zero-point clamping system for the holding of clamping pallets. An automatic pallet changer is designed for unmanned machining and is able to memorize/store up to 4 (5) pallets with raw parts in its system.

Technical Details

Traverse path

X-axis	2800 mm
Y-axis	1250 mm
Z-axis	2800 mm

Feed rates

max. speed	60 m/min
max. acceleration	5 m/sec ²
max. feed force	10000 N

Rotary head

max. capacity S1	55 kW
max. torque S1	210 Nm
max. speed	15000 rpm
swivel range	0° to 90°

Rotary table

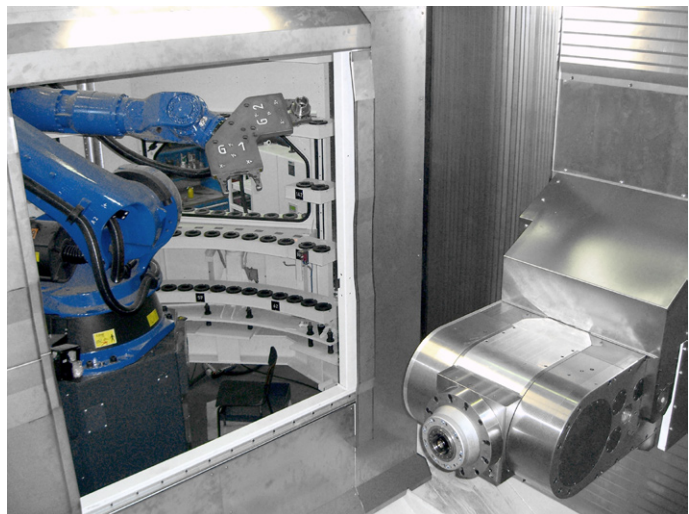
table size	1000x1000 mm
max. pallet size	1000x1600 mm
max. swing diameter	3000 mm
max. table load	10000 kg
positioning accuracy	±1"

Tool magazine

tool slots	339
tool holder	HSK-A 100
tool changing rate	7 sec

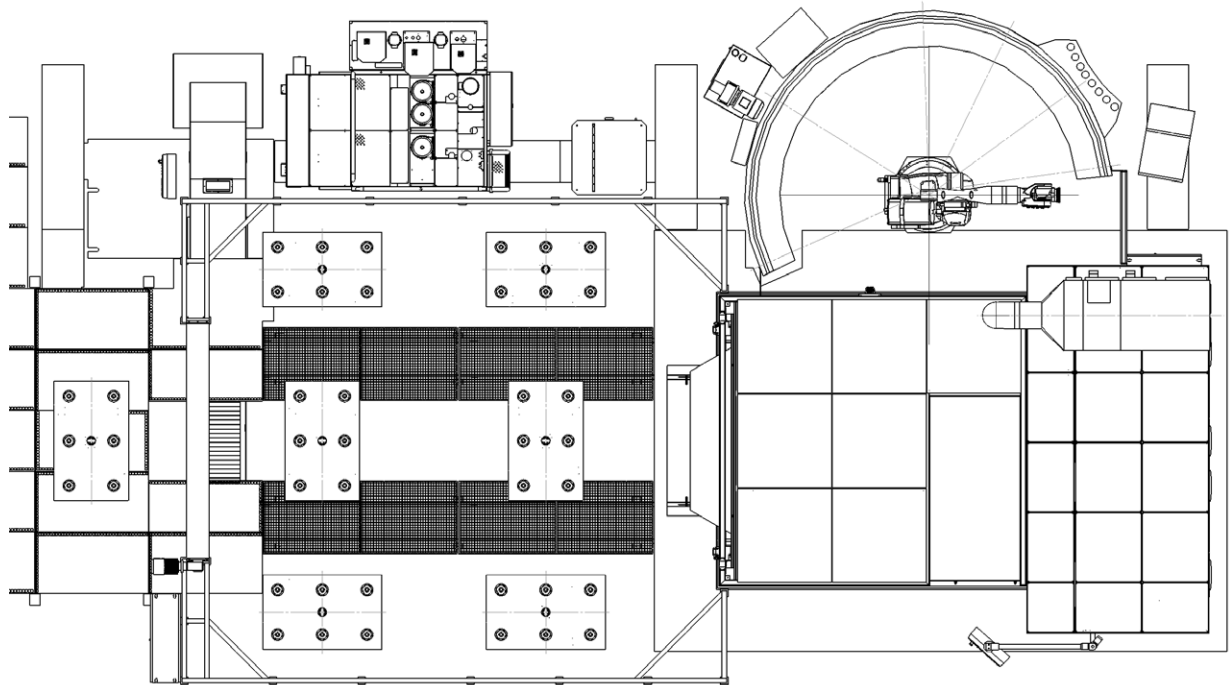
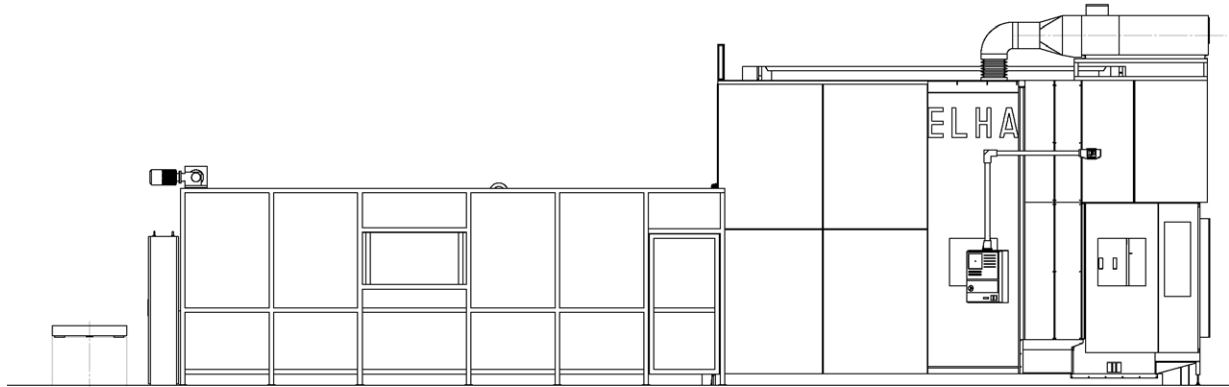
Dimensions

space assignment	17.4x9.1x5.9 m
total weight	65000 kg



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