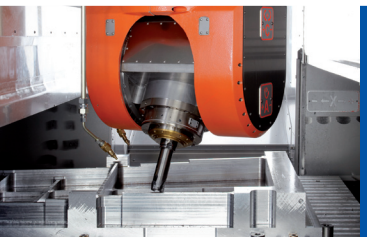


Universal machining centres

UBZ® HP

Modular . Dynamic . Precise .

Experience the modular machine concept of the UBZ-line! These powerful machining centres with fixed portal and moving table convince through high dynamics and precision, especially while machining different materials in challenging machining processes. Customer-oriented solutions for automation perfectly fit the machine into your production process.

CONCEPT

- Machining of large workpieces in aluminium and steel
- Table sizes from 2,500 x 1,500 up to 12,000 x 2,000 mm
- Machine structure with maximum rigidity and best thermal stability
- High accuracies due to the drive concept
- Spindle power from 20 up to 180 kW, torque up to 3,000 Nm
- User-friendly loading from top and both sides

OPTIONS

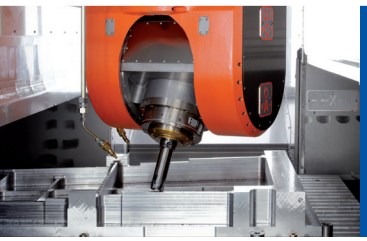
- Process-oriented machine configurations
- Workpiece-specific vacuum clamping systems and exhaust units
- Machine specific chip and coolant management

INTEGRATION INTO YOUR PRODUCTION PROCESSES

- Application-oriented solutions for automation
- Portal loading system for automatic pallet change
- Pallet rack system with variable number of pallets
- Configuration with double table in line available

handtmann
Ideas for the future.

*Technical details are subject to change, illustrations contain options (08/2012)



Universal machining centres

Technical Data

Important details at a glance!

		UBZ® HP
Material		Aluminium, steel
Travel path (mm)	X-axis	max. 13,500
	Y-axis	max. 2,800
	Z-axis	1,000, 1,250, 1,500
Travel speed	X-/Y-/Z-axis	max. 60/60/40 m/min
Table size	L x W	max. 12,000 x 2,000 mm
Acceleration		max. 5 m/s²
Milling head	Rotation angle A-axis	max. +/- 120°
	Rotation angle C-axis	max. +/- 200°
Spindle data Power, speed and torque	HSK 63 A HSK 100 A	20 up to max. 180 kW
		max. 30,000 rpm
		33 up to max. 3,000 Nm
Tool magazine		Disc- or rack-type
Control		Siemens 840D, Heidenhain iTNC 530 (optional)
Special features		Hydraulic dampening and clamping elements, application-oriented solutions for automation from one source for optimized processes
Branches		Mould- and die-making, Aerospace, Tool making, General machine construction

Modular machine design with user-friendly loading from various sides and compactly arranged peripheral equipment

High power spindles for higher output (20 up to 180 kW)

High rigidity of the machine for best quality in dynamic machining

Customer-oriented automated solutions for optimized processes

Portal loader with rack system for a multitude of pallets enables automatic 24 hours operations

Portal handling system for several pallets

UBZ® HP with portal robot for long workpieces

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Ideas for the future.