



KOVOSVIT MAS
machine your future



MCV 800 quick

Vertical machining center

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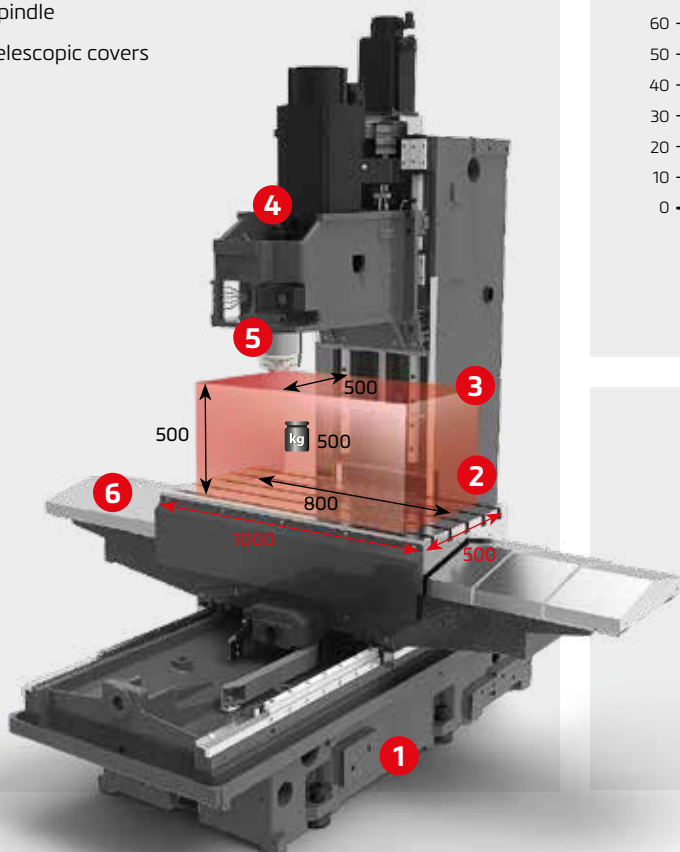
Main features of the machine

- Linear rolling guides with direct measuring of all axes
- Increased starting of X axis = 800 mm
- Small built-up machine area, improved ergonomics
⇒ lower spatial requirements
- Innovation of kinematic configuration of cross-table
⇒ Increased static rigidity of load-bearing structure
- New developed machine variant with worm chip conveyor ⇒ compactness (machine length decreased by 1200 mm as compared to link conveyor)
- Increased number of clamping grooves on the table
- Heidenhain TNC620, Siemens 828D control system
- Innovated spindle ⇒ Decreased noise level, maximum revolutions increased to 12 000 min⁻¹



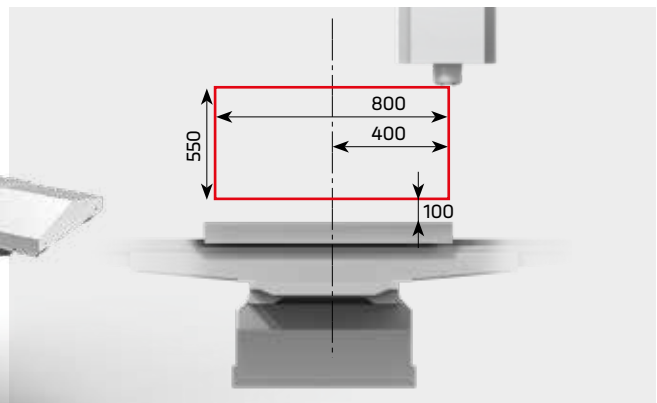
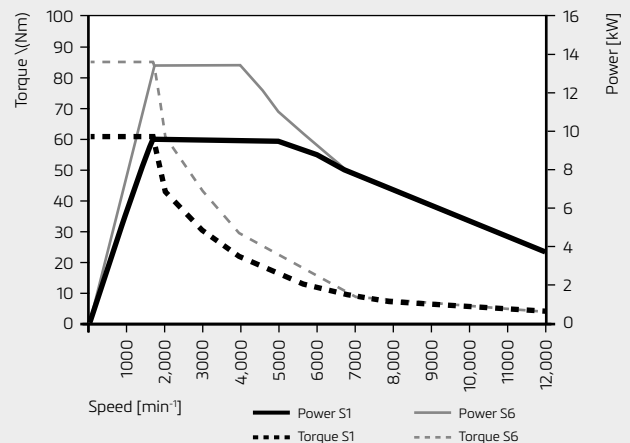
Working space

- 1 | Machine frame
- 2 | Table clamping area
- 3 | Stand
- 4 | Spindle head
- 5 | Spindle
- 6 | Telescopic covers



Spindle

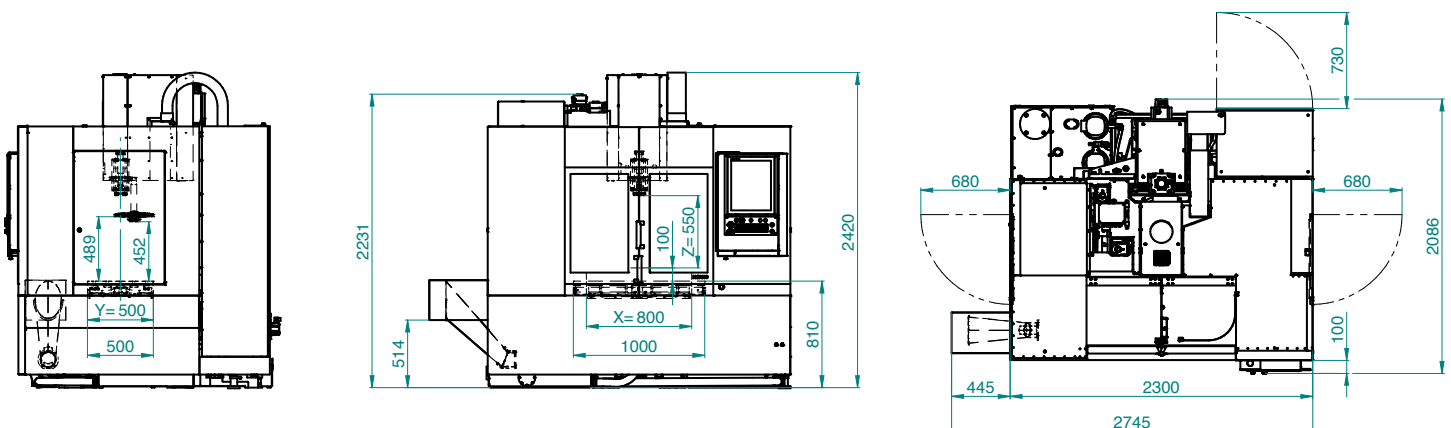
QUICK – 12 000 min⁻¹



Technical specifications

			MCV 800
Main dimensions	Table clamping surface	mm	1000 × 500
	Number of table T-slots	pcs	5
	Table T-slots width and spacing	mm	18 / 100
	Largest table track length (X)	mm	800
	Largest slide track length (Y)	mm	500
	Largest spindle track length (Z)	mm	550
	Maximum workpiece weight (table load)	kg	500
	Max. workpiece dimension for max. tool length	mm	800 × 500 × 300
Maximum drilling diameters (motor 10 kW)	Drilling full diameter to steel of strength 600 MPa with drill bit from RO	mm	25
	Drilling full diameter to steel of strength 600 MPa with drill bit mm	mm	30
Spindle	Thread diameter with cutting to steel with strength 600 MPa	mm	M20
	Spindle taper		ISO 40
	Distance from spindle nose to table clamping surface	mm	100 - 650
	Maximum speed	min ⁻¹	12,000
	Spindle motor power (S1/S6 - 40%)	kW	10 / 14
	Spindle motor torque (S1/S6 - 40%)	Nm	63 / 88
	Speed change		Continuously variable
	Tool clamping force	N	18,000
Accuracy	Measuring system X, Y, Z	Heidenhain	Direct
		Siemens	
Feed rate	Rapid feed	mm.min ⁻¹	30,000
	Working feed	mm.min ⁻¹	15,000
	Ball screw X, Y, Z	Diameter	32
		Pitch	10
Pneumatic equipment	Max. tank capacity	l	200 + 80
	Working pressure	MPa	0.6
	Air consumption	m ³ /hour	3-4
Machine dimensions	Length	mm	2086
	Width	mm	2745
	Height	mm	2420
	Weight	kg	4,000
Connection of the machine	Max. total machine input	kVA	20
Tool magazine	Number of positions – left magazine	pcs	24
	Max. tool diameter	All positions occupied	80
		Neighbouring position skipping	120
	Max. tool length	mm	250
	Max. tool weight	kg	6.5
	Max. tool weight in the magazine	kg	65
	Change time of adjacent tool (tool – tool)	s	3.8

Machine dimensions





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