



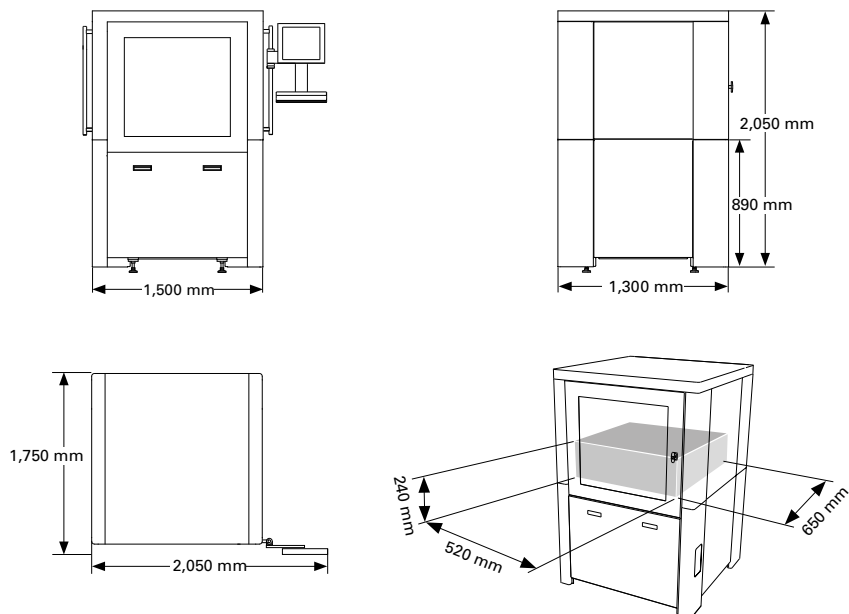
DATRON M7HP

CNC milling machine M7HP

The M7HP milling machine has an even higher machining accuracy than the „M7“ model. With selected ball screws, accurate calibration and closely monitored software compensation, this machine allows you to achieve exceptionally high-quality machining results at a very attractive price.

Benefits

- Positioning resolution 0.5 μm
- Positioning feed up to 8 m/min
- Fully Enclosed Machining Area
- Traverse path
520 mm x 650 mm x 240 mm
- Optional with high-frequency spindle with HSK-E clamping cone (up to 48.000 rpm)
- Optional with 11fold tool changing unit HSK-E 25



Applications CNC milling machine M7HP

The high dynamics and speed allow for a versatile use in industrial series production:

- 2D and 3D engraving, of also Steel and Stainless steel
- Efficient machining of small-format aluminium workpieces
- Machining of graphite or copper electrodes (with special suction unit, available as an option)
- Precise machining of small moulds

Drive System
<ul style="list-style-type: none"> ■ Digital servo drives
Control and operation
<ul style="list-style-type: none"> ■ Fast digital servo control with Microsoft® Windows® software ■ Operating terminal and hand-held control unit
Lubrication and cooling (optional)
<ul style="list-style-type: none"> ■ Minimal quantity lubrication, electronically dosed
CAD-Interface (optional)
<ul style="list-style-type: none"> ■ DIN 66025 (G-Code) ■ HPGL ■ CL-Print (each optional)

Workspace	
Traverse path (X x Y)	520 mm x 650 mm
Traverse path with tool changer	520 mm x 520 mm
Portal passage	200 mm
Z-Stroke	240 mm
Machine dimensions	
Machining table	Massive Granite table on a Steel frame structure with double-portal Y-drive
Installation dimensions with control unit (W x D x H)	2,050 mm x 1,750 mm x 2,050 mm
Installation dimensions without control unit (W x D x H)	1,500 mm x 1,300 mm x 2,050 mm
Max. table load	120 kg
Weight	ca. 800 kg
Speeds	
Positioning feed	X = 8 m/min Y = 8 m/min Z = 8 m/min
Supply	
Voltage	230 V up to 2.0 kW spindle 3 x 400 V from 3.0 kW spindle
Power input	up to 3.0 kW with spindles < 2.0 kW, 4.0 kW with spindles > 2.0 kW
Air connection	7–10 bar, dry, clean, oil-free
Ambient temperature	15–30 °C
Protection cabin	✓
CNC-control for 3-6 axes	✓
19" LCD operator terminal	✓
Hand-held control unit	optional
USB Interface	✓
Ethernet Interface	✓
Tool changer	max. 11fold
HF spindels (optional)	from 0.6 kW (6,500–60,000 rpm) up to 3.0 kW (1,000–40,000 rpm)
Milling machine M7HP	0A01191H

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