DATRON
Smart Manufacturing Solutions

DATRON **M7**

Highest Speed and Precision when Milling, Drilling and Engraving with small tools –

DATRON's milling machine M7 will substantially increase your machining speed and quality. With a floor space of only 1,300 mm x 1,300 mm this compact machine offers a traverse path of 520 mm x 650 mm x 240 mm. The solid Granite construction ensures very dynamic CNC milling, at the same time high surface quality. Robust high-torque machining spindles or precision spindles up to 60,000 rpm are available.

High-performance cutting up to 60,000 rpm

- massive machining table with Steel protective cover
- fast 3D rapid prototyping in all conventional materials
- 2D and 3D engraving of Steel and stainless steel
- efficient machining of small-format Aluminium parts
- high-speed machining of frontpanels and housings
- no reworking necessary thanks to neat and burrfree machining

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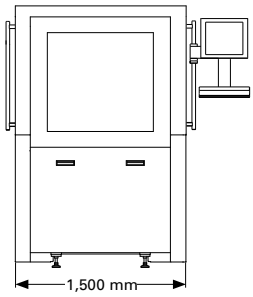

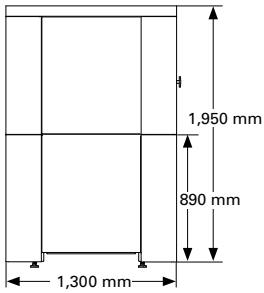

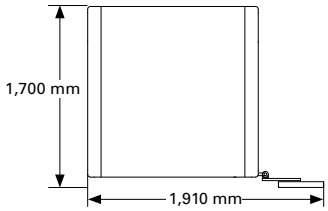

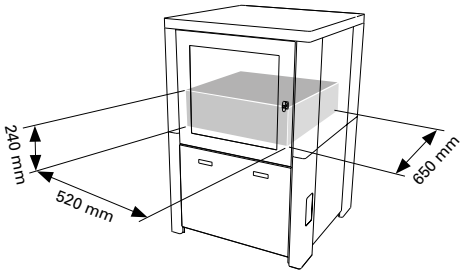

Applications

Precise and economical milling, drilling and engraving of:

- Aluminum, drawing, Ureol, Thermo-forming, Acrylic-CSF and CFRP parts
- Frontpanels and housings
- 2D and 3D engraving of also Steel and Stainless steel

Accessories (optional)

DATRON offers extensive accessories. Check out our accessories catalogue.

- Clamping systems: manual, pneumatic, vacuum
- Automatic tool changer up to 15-fold according to HF-spindle
- Electronic Z-correction with XY-probing
- High-speed milling tools
- CAD/CAM and 3D engraving software

Drive System
Digital servo drives
Control and operation
Fast digital servo control with Microsoft® Windows® control software
Operating terminal and hand-held control unit
Lubrication and cooling
Minimal quantity lubrication, electronically dosed
CAD-Interface (optional)
DIN 66025 (G-Code)
Excellon
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	
Machine table	Massive Granite table on a Steel frame structure with double-portal Y-drive
Installation dimensions with control unit (W x D x H)	1,910 mm x 1,700 mm x 1,950 mm
Installation dimensions without control unit (W x D x H)	1,500 mm x 1,300 mm x 1,950 mm
Max. table load	120 kg
Weight	c. 800 kg
Speeds	
Positioning feed	X = 16 m/min Y = 16 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	✓
USB Interface	✓
Ethernet Interface	✓
Tool changer (optional)	maximum 15-fold
HF-spindles (optional)	from 0.6 kW (6,500–60,000 rpm) up to 3.0 kW (1,000–40,000 rpm)
Milling machine M7	0A01191A

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