

DATRON

Innovative Production Technology



DATRON M8Cube

Milling, drilling and engraving
Speed – precision – efficiency

DATRON M8Cube

Efficient machining of aluminum and other high-tech materials

The DATRON M8Cube is the best choice for efficient milling of enclosures, front panels and profiles of aluminum.

But other non-ferrous metals or composite materials can be processed very efficiently with the M8Cube as well. Short set-up times, very low power consumption and excellent value for your money, the M8 delivers extremely high R.O.I.

Benefits at a glance:

- You will save space!
Very large working area while at the same time having a small footprint.
- Save money!
The M8Cube is affordably priced and has extremely low operating costs.
- You have new opportunities in milling, drilling and engraving! The M8Cube is designed for processing High-tech materials with small tools (\varnothing 0.1 mm to 20 mm) and has been developed Innovative milling technology "Made in Germany" for your success.



Highlights of the M8Cube

You have a special project –
we have the solution.

- **Precision** through optimized controls with a focus on acceleration and rigid mechanical design.
- **High speed** precision spindles with up to 60,000 rpm
0.6 kW to 3.0 kW.
- **Rigid, low-vibration design** of the machine for excellent surface quality when machining.
- **High accuracy** by high value linear guidance, ball screws, HSK-E 25 tool holder (optional)



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Energy saving:
Very low power consumption at high metal removal rates by using energy-efficient units.



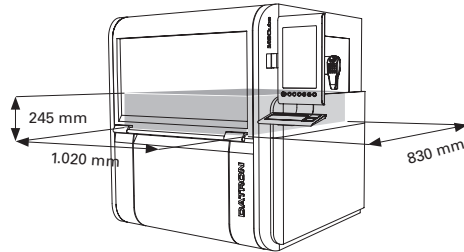
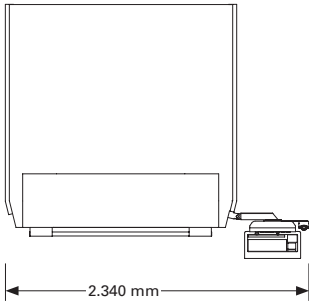
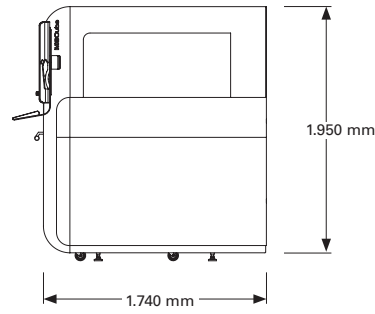
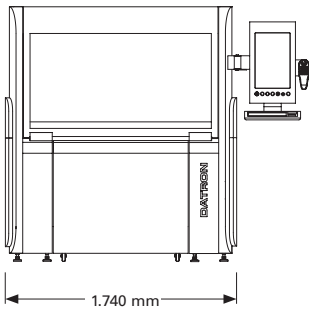
Money saving:
Economical to purchase and in operation.



Space-saving:
Large X,Y travel with a small footprint.



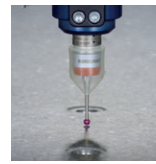
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Dimensions



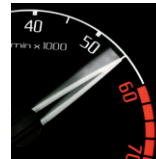
Precision spindle with a concentricity better 2 μ m and HSK-E 25 tool holding fixture (optional).



XYZ measuring system provides measurement and fool-proof material tolerance compensation (optional).



Saves resources: Minimum quantity coolant from 30 ml/hour. Minimal cleaning costs.



Up to 60,000 rpm: High cutting performance with small tools. Dynamic HSC control system.



5-axis milling with rotary/swivel table for precise multi-sided machining of small parts (optional).



Precision ball-screws, spindles and linear guides from leading suppliers. Brushless direct drives in the X/Y-axes.

Technical Data	DATRON M8Cube	
Machine table	Solid polymer-concrete table with steel frame, extremely rigid gantry design with double-sided Y drive with covered guides	
X,Y,Z travel	1,020 mm x 830 mm x 245 mm; with tool changer 720 mm in Y	
Gantry clearance	200 mm	
Installation dimensions without operating terminal (W x D x H)	1,740 mm x 1,740 mm x 1,950 mm	
Self-locating inserts for workholding pallets integrated into the table	✓	
Fast digital servo control with Microsoft® Windows® control computer	✓	
Easy-to-use hand-held control unit	✓	
Direct drive system: Brushless servo motors with absolute encoders, ball-screw spindle for each axis	✓	
Minimal quantity coolant	✓	
Machining spindle	Precision high-frequency spindles from 0.6 kW to 3.0 kW with up to 60,000 rpm	
Tool changer with integrated tool length sensor	5-station tool changer with HSK-E 25 (optional 10-station), 15-station tool changer with direct shank (optional 30-station)	
Feed	up to 22 m/min	
Rapids	up to 22 m/min	
Weight	approx. 1,300 kg	
Article Number	0A03200A (with cut-out)	0A03200B (full table)





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The information in this brochure contains current descriptions or performance features which are subject to change due to further development of the products. The descriptions and performance features are binding only if they are expressly agreed in writing at the time of conclusion of the contract.

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