

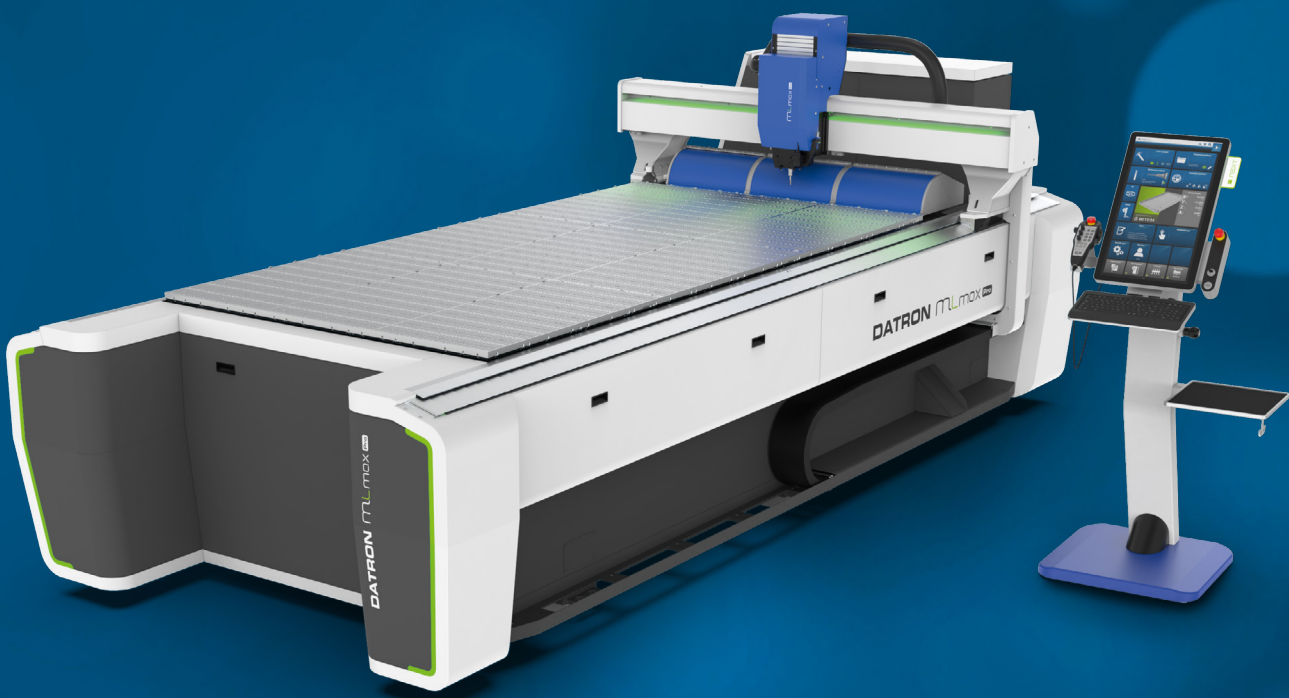
DATRON

DATRON **MLmax Pro**

Where large-format capacity meets precision.

The DATRON MLmax Pro is DATRON's largest CNC milling machine, engineered for high-speed, high-precision machining of large-format sheets and parts. Its rigid machine design and dynamic performance deliver dependable accuracy—even across demanding, large-scale applications.

With its expansive machining area, the DATRON MLmax Pro is ideal for machining large or bulky components while also supporting efficient production of smaller parts. Built for flexibility, productivity, and performance, it is a powerful solution for modern manufacturing environments.



Discover the DATRON MLmax Pro.
www.datron.de/MLmax

Highlights

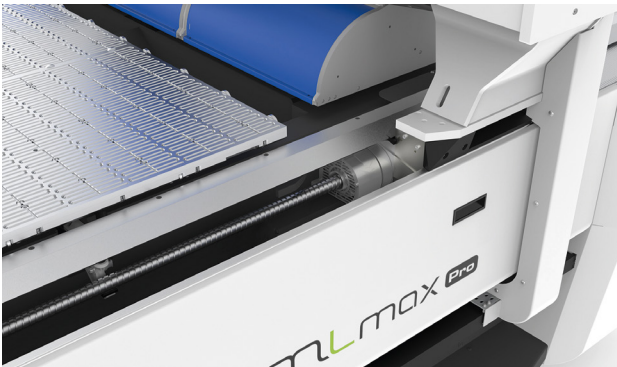
Dynamic Performance at Scale

The mass-optimized design supports highly dynamic axis movement while maintaining exceptional rigidity throughout the machine structure.



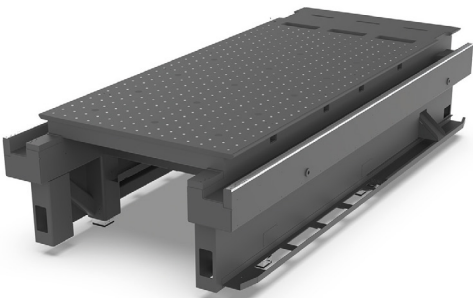
Speed and Precision

The low-friction drive system with a driven nut enables travel speeds of up to 50 m/min, supporting fast, accurate, and efficient machining.



Precision Across the Entire Work Area

The steel table frame is reinforced with a 35mm-thick, low-vibration UHPC cast base to provide a stable, rigid foundation for precise machining.



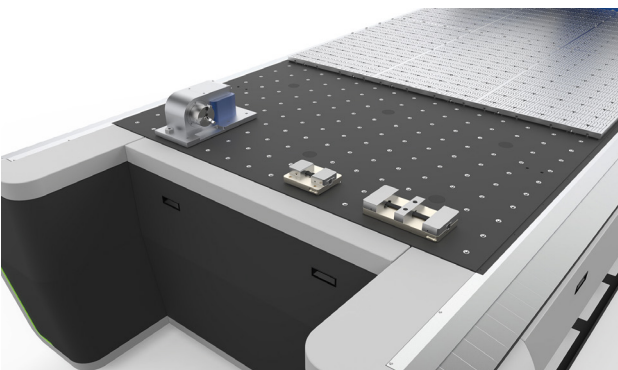
DATRON next: intuitive control

The intuitive touchscreen interface guides users through the machining process step by step, helping operators get started quickly and confidently.



Plug-and-Play Compatibility with DATRON Accessories

The proven conical mounting system enables repeatable mounting of DATRON clamping devices. Up to 18 vacuum fields can be controlled individually.

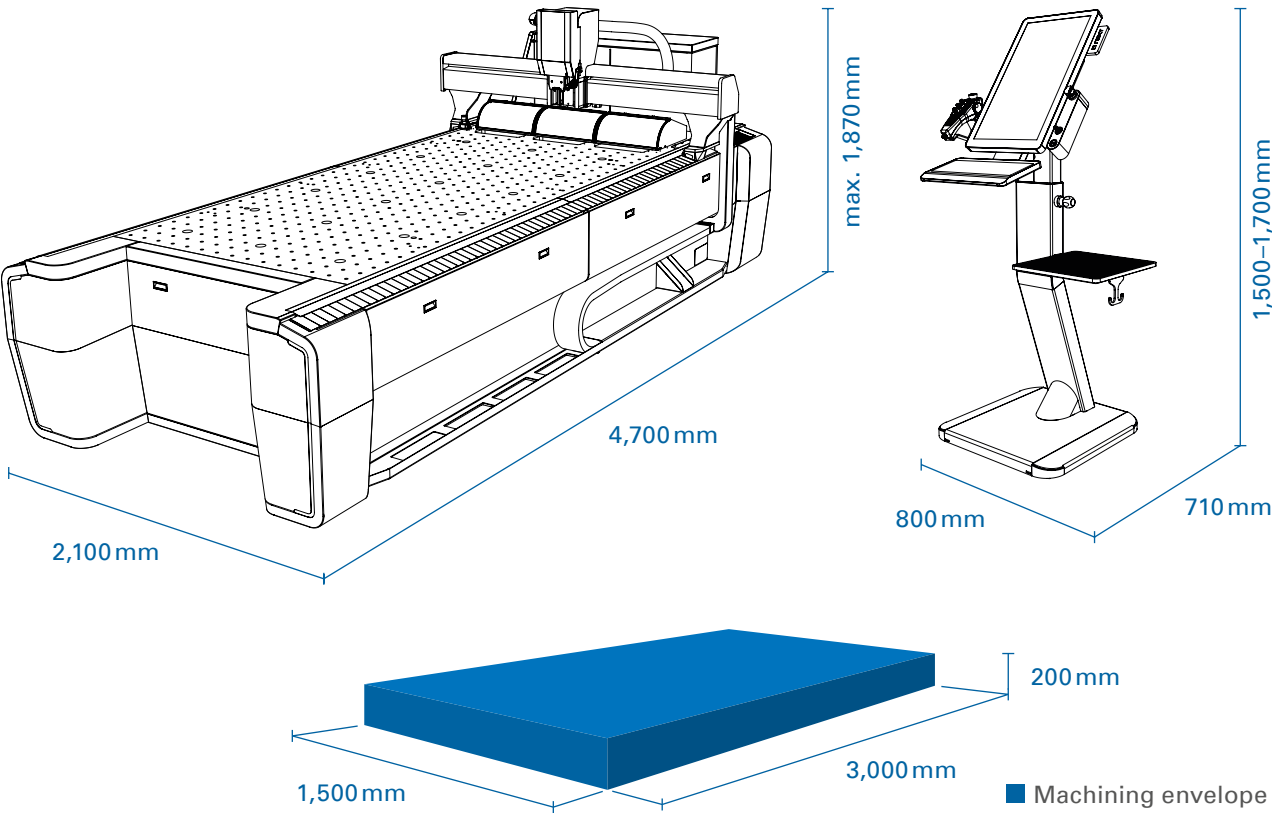


Minimum Quantity Lubrication (MQL)

Two compact, seamlessly integrated coolant tanks—each with a 10 liter capacity—help conserve valuable floor space.



Technical Data



Axis Travel (X x Y x Z)	1,570 mm x 3,160 mm x 245 mm
Machining Envelope (X x Y x Z)	1,500 mm x 3,000 mm x 200 mm (Z = gantry clearance)
Spindle	1.8 kW–4.0 kW HF spindle; up to 48,000 rpm; HSK-E25
Tool Management	12-position with HSK-E25 tool holder (optional 36-position)Tool length touch probe (optional)
Machine Table	Steel table; integrated conical threads
Base Frame	Mass-optimized steel frame with UHPC casting
Control/Software	DATRON next
Operating Terminal	Free-standing terminal with 24" multi-touch display with additional manual operating panel and 24" display on the machine (optional)
Workpiece Measurement	3D touch probe (optional)
Axis Extension	DATRON Axis4 (optional)
Minimum Quantity Lubrication	Coolant tank with 10 liters or 2 x 10 liters; spray ring with 4 nozzles
Linear Absolute Measuring System X/Y	✓
Feed	Up to 50 m/min
Rapid Traverse	Up to 50 m/min
Installation Dimensions Without Operating Terminal (W x D x H)	2,100 mm x 4,700 mm x max. 1,870 mm
Operating Terminal Dimensions (W x D x H)	800 mm x 710 mm x 1,500–1,700 mm; flexible installation site
Weight	Approx. 8,000 kg

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