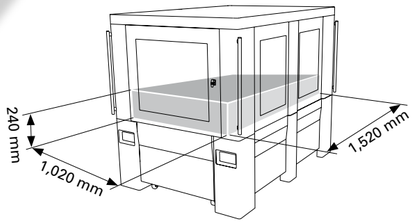
DATRON **M8XL-1600**

Powerful CNC machining for large-format plates and profiles: The HSC M8XL-1600 machining system offers a large traverse path of 1,020 mm x 1,600 mm x 240 mm (X x Y x Z). The solid and low-vibration design with a concrete polymer table and precision guides serves as the basis for high manufacturing quality at high machining speeds. The large swing doors allow for optimal loading of the machine.

- Traverse path: 1,020 mm x 1,600 mm x 240 mm (X x Y x Z); with tool change useable in Y 1,520 mm
- Very small footprint
- Protective cover with accessibility on all sides
- High-performance cutting with 2 kW or 3 kW HF spindle
- Tool change with up to 30 tools



DATRON **M8XL-2500**

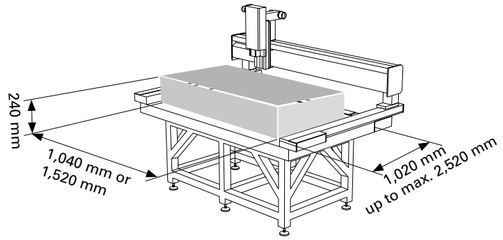
This M8XL model is particularly suitable for multiple clamping systems, extrusion machining and, naturally, for CNC sheet-metal machining. The traverse path is 1,020 mm x 2,600 mm x 240 mm (X x Y x Z). Various types of adaptable covers (even with high-speed doors) are available.

- Traverse path: 1,020 mm x 2,600 mm x 240 mm (X x Y x Z); with tool change useable in Y 2,500 mm
- Customer-specific clamping fixtures or vacuum clamping fields
- HF-spindles 2 kW with speeds up to 60,000 rpm, or 3 kW with speeds up to 40,000 rpm
- Tool change up to 30 tools
- Customer-specific adaptable covers

DATRON **ML**

Modular, solid and versatile – the ML series is nearly always the right solution! Of the machines with DATRON vacuum technology, perhaps the best machine for efficient and precise sheet-metal machining. The solid and accurate granite table guarantees a uniform table surface and an exceptionally smooth operation for machining perfect surfaces.

- Modular design with precision guides and ball screws
- Traverse path: 1,040 mm x 1,150 mm x 240 mm up to 1,520 mm x 2,650 mm x 240 mm; with tool change shortened in Y by 130 mm
- Precision high-frequency spindles from 1.2 kW to 3 kW
- Customer-specific adaptable covers
- Tool change – depending on the HF spindle - up to 45 tools

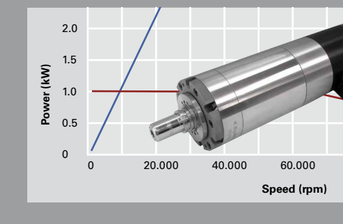


Available machine sizes:

Technical Data	DATRON M8XL	DATRON ML
Working area (X x Y); Z stroke = 240 mm, portal passage 200 mm	**M8XL-1600:** 1,020 mm x 1,520 mm **M8XL-2500:** 1,020 mm x 2,500 mm	**ML 1000-2:** 1,040 mm x 1,020 mm **ML 1500-2:** 1,520 mm x 1,020 mm **ML 1500-3:** 1,520 mm x 1,520 mm **ML 1500-4:** 1,520 mm x 2,020 mm **ML 1600-5:** 1,620 mm x 2,520 mm **ML 1000-2C:** 1,040 mm x 1,020 mm **ML 1500-2C:** 1,520 mm x 1,020 mm **MV 1000-1C:** 1,040 mm x 800 mm
Installation dimensions without control unit (W x D x H)	**M8XL-1600:** 1,700 mm x 2,400 mm x 1,950 mm **M8XL-2500:** 1,450 mm x 3,400 mm x 1,800 mm	**ML 1000-2:** 1,700 mm x 1,600 mm x 1,640 mm **ML 1500-2:** 2,160 mm x 1,600 mm x 1,640 mm **ML 1500-3:** 2,160 mm x 2,060 mm x 1,640 mm **ML 1500-4:** 2,200 mm x 2,700 mm x 1,640 mm **ML 1600-5:** 2,200 mm x 3,100 mm x 1,640 mm **ML 1000-2C:** 2,400 mm x 2,250 mm x 1,950 mm **ML 1500-2C:** 3,000 mm x 2,250 mm x 1,950 mm **MV 1000-1C:** 2,400 mm x 2,250 mm x 1,950 mm
Weight	**M8XL-1600:** 1,600 kg **M8XL-2500:** 2,000 kg	**ML 1000-2:** 950 kg **ML 1500-2:** 1,300 kg **ML 1500-3:** 1,800 kg **ML 1500-4:** 2,200 kg

Thanks to our large range of accessories, our machining systems can be perfectly adapted to the machining tasks of our customers. Our accessories catalog is available on request.

The ML series with integrated protective cover is available with a working area of up to 1,520 mm x 1,020 mm (W x D). The front swing door delivers an extraordinarily high accessibility.



High cutting capacity

Sheer speed and an high concentricity result in exceptional cutting performance when using small tools. DATRON exclusively offers rugged and precise high-frequency spindles for perfect machining results.

Sensor technology

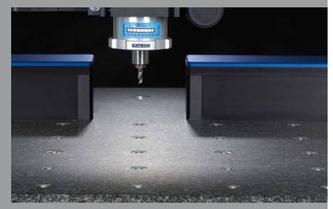
DATRON delivers production efficiency through intelligent sensors and probes that monitor the mechanics and control. With the unique DATRON XYZ sensors even material tolerances and irregularities are compensated for automatically.

Reliable service

Quick and efficient – you can always rely on DATRON customer service. We offer custom-made service solutions worldwide over the entire lifetime of your DATRON machine.

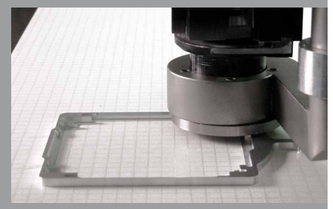
Control system and software

Quick, highly-dynamic, robust and extremely intuitive operation — the DATRON CNC control system combines efficiency with ease-of-use. Positions your operation for the future with the most modern PC technology and the Windows® operating system.



Precision and quality

The high-quality steel construction featuring a granite or concrete polymer working table ensures a long life and high-machining quality. Precision is guaranteed through the great care that our specialists take in assembling each high-quality machine component.



Vacuum clamping technique

All large-format machines can be equipped with the DATRON vacuum clamping technique. The specially-engineered "sandwich" design yields very high holding force. This is possible even with small and intricate workpieces, thanks to the new "VacuSheet" intermediate layer. Almost chip-free sheet-metal machining is possible with the DATRON "CleanCut" system.

DATRON

Large-format!

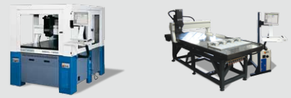
DATRON HSC machining centers for quick and precise machining of aluminum and plastic plates. High precision and speed due to steel construction, granite or concrete polymer working tables and high-quality profile rail guides and ball screws.

Scope of delivery:

- Quick 3D CNC control system for three to six axes
- Menu-guided Microsoft® Windows® based CNC programming software "winCNC"
- LCD operating terminal with standard PC
- Network and USB 2.0 interface for exchange of data
- Easy-to-use hand-held control unit with function keys

The following options are available:

- HF spindles from 1.2 kW - 3 kW with a speed of up to 60,000 rpm
- Tool changing system with up to 45 tools depending on the type of spindle
- Tool length probing or laser measurement
- Microjet® minimum quantity cooling lubrication system
- Vacuum clamping plates with Vacuplate++ for the highest possible holding force
- Automatic suction system "CleanCut"
- DATRON module and pneumatic short stroke clamping systems

Technical Data	DATRON M8XL	DATRON ML
		
Coordinate table	Solid concrete-polymer table on a steel frame, portal design with double-sided Y drive	Solid granite table on a steel frame, portal design with double-sided Y drive **ML 1500-5**: Vacuum table on a steel base
Traverse path (X x Y); Z stroke = 240 mm, portal passage 200 mm	**M8XL-1600:** 1,020 mm x 1,600 mm; with tool change useable in Y 1,520 mm **M8XL-2500:** 1,020 mm x 2,600 mm with tool change useable in Y 2,500 mm	Depending on the type of machine (see table, inner side)
Installation dimensions without control unit (W x D x H)	**M8XL-1600:** 1,700 mm x 2,400 mm x 1,950 mm **M8XL-2500:** 1,450 mm x 3,400 mm x 1,800 mm	Depending on the type of machine (see table, inner side)
Protective cover	Full covering **M8XL-2500:** Adaptable cover (optional)	Adaptable cover (optional), full covering with **ML 1000-2C; ML 1500-2C**
Quick digital servo control system with Microsoft® Windows® PC	✓	✓
Easy-to-use hand-held control unit	✓	✓
DATRON CNC macro programming	✓	✓
Drive system: Digital servo drives; Precision spindle for every axis	✓	✓
Minimum-quantity lubrication, electronically dispensable (optional)	✓	✓
Machining spindles: 1.2 kW; 2 kW; 3 kW, up to 60,000 rpm depending on the type of spindle. Direct shank or HSK-E 25	✓	✓
Tool change (optional) HSK-E 25 or direct-shank clamping - depending on the spindle and machine type, up to 45 tools	✓	✓
Positioning feed	up to 20 m/min	x up to 20 m/min y up to 16 m/min
Weight	Depending on the type of machine	Depending on the type of machine
Article number	**M8XL-1600: 0A01083C/D** **M8XL-2500: 0A01083A/B**	**0A01200-0A01204**

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DATRON **Large-format**

Whether it is precise CNC nesting applications or efficient CNC sheet-metal production: DATRON´s large-format machines get the job done right!