

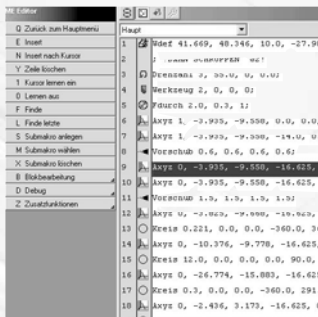
CNC Machining Systems

Mini Tools

Dispensing Systems

Positioning Drive Units

Consultation and Training



DATRON MBXL-1600

CNC Machining System for Large-Format Sheets and Extrusions

- CNC-Machining of Nonferrous Metal and Plastics
- Machining Area 1020 mm x 1520 mm x 240 mm
- High Accuracy through Steel/Polymer Construction

M8XL-1600 CNC Large-Format Machining System

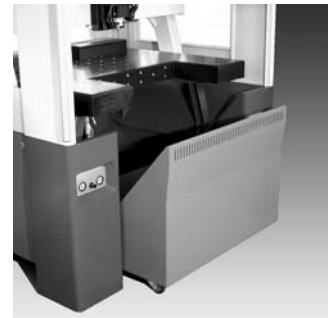
The machining system M8XL-1600 is specially designed for the precise machining of large-format workpieces. The useable machining area is 1020 mm x 1520 mm with a floor space of 1700 mm x 2300 x 2000 mm. The solid vibration-damped construction with precision linear guides is the basis for high production quality, even whilst machining at high speed. The large swing doors at the front and rear side of the machine enable an easy loading of the machine.



Equipment

The standard equipment of the M8XL-1600 CNC system consists of:

- a solid cast polymer coordinate table in a steel protective cover
- quick 3D CNC control system for three to six axes
- LCD operating terminal with standard PC
- network, CD, and floppy disk for data exchange
- hand-held control unit with electronic jog mode
- program-controlled minimal quantities tool lubrication and cooling system
- menu-driven CNC programming software winCNC



Accessories (optional)

- 600 W, 1.6 kW and 2 kW with direct shaft clamping
- 1.8 kW or 4.5 kW high-frequency spindle with HSK tool holding fixtures
- Span-protected tool changer: up to 30 tools, depending on spindle type
- Clamping systems: manual, pneumatic, vacuum
- Electronic Z-correction with XY touch probe
- High-speed tools
- CAD/CAM and 3D engraving software

Advantages and Areas of Application

The large machining area and at the same time high stability and speed offer:

- an exceptionally high production speed when small tools are used for cutting
- fully enclosed protective cover with large doors
- solid cast polymer machining table
- high-frequency spindle up to 60,000 rpm
- vacuum and modular clamping systems optionally available

Technical Data	DATRON M8XL-1600
Coordinate Table	Solid cast polymer on a steel base, portal set-up with double-sided Y-drive, precision guides
Machining Area (X xY x Z)	1020 x 1520 x 240 mm
Portal Height	200 mm
Clamping Area (X,Y)	1170 x 1700 mm
Vertical Clamping Area (Table with cut out)	Range: 250 mm x 600 mm; up to 900 mm high
Machine Dimensions (B x T x H)	1700 mm x 2300 mm x 2000 mm incl. Monitor: 2300 (Width)
Driving System	Digital servo drives; precision ball screw
Lubrication and Cooling System	Minimal quantity lubrication, electronically adjustable dispensing
Machining Spindle (optional)	E.g. 2 kW high-frequency spindle, 7,000 - 60,000 rpm, other types available
Control System	Decentral, digital high-speed servo control with PC user interface
Feed Rate and Positioning Feed	X: 20 m/min Y: 16 m/min Z: 8 m/min
Weight	Approx. 1.6 t

The information in this brochure contains up-to-date descriptions and features which may change due to further product development. The descriptions and features are only binding if they are expressly agreed upon in writing when the contract is concluded.

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