

NEW

DATRON MLCube LS



DATRON MLCube LS With Linear Scales

Reliable, Large-Format and Highly Precise

The DATRON MLCube LS offers you highest precision for HSC milling of sheets and other large-format workpieces as well as milling in nested form – independent of dynamic temperature drift. The extra-large work space (1,520 x 1,020 mm) combined with the machine's minimal floor space makes the MLCube LS the ideal solution for every production machining aluminium and other non-ferrous metals.

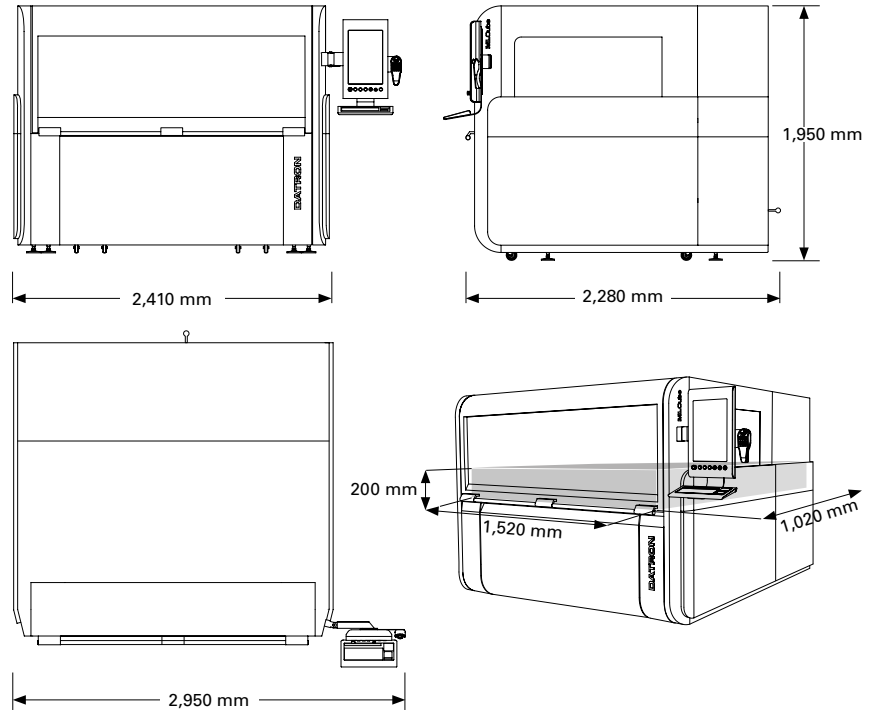
Your benefits at a glance:

- Extremely large working area requiring little floor space
- New vacuum clamping technology with the possibility of electrically enabling/disabling different segments
- Available with table cutout for vertical clamping technology, appropriate for machining high components (optional)
- Contour smoothing package PerfectCut for fast, accurate and contour-faithful HSC milling with excellent surface quality: your machine is more powerful and stays "fit" longer, even in cases of high-volume production (optional)
- New chip carriage design with allocation to multiple containers (stackable) to promote work ergonomics
- Linear measuring system:
Improved precision in X and Y axis

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Highlights of the MLCube LS

- High dynamics through optimised control and mechanical construction designed for acceleration and rigidity
- Very high cutting performance using smallest tools due to the high-speed precision high-frequency spindles with up to 60,000 rpm and outputs from 0.6 to 4.0 kW
- Rigid, low-vibration machine construction optimised for excellent surface finishes when using FEM for machining
- High precision due to its high-quality linear guides, ball screw spindles, HSK-E 25 tool insert (optional) and precisely-crafted structural elements



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



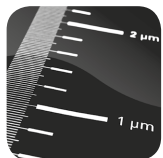
Integrated XYZ measuring system: Measuring functions and easy-to-use-material/tolerance compensation (optional).



Saves resources: Minimum quantity lubrication (as low as 30 ml/h). Minimal cleaning costs (optional).



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



Linear path measurement system The integrated linear path measurement system for X and Y axis guarantees long-lasting precision machining.

Technical Data	DATRON MLCube LS
Machine table	Solid polymer concrete table with steel column, extremely rigid portal design with double-sided Y drive with covered guides
Traverse path (X x Y x Z)	1,520 mm x 1,150 mm x 245 mm; with tool changer 1,020 mm in Y
Portal passage	200 mm
Installation dimensions without operating terminal (W x D x H)	2,410 mm x 2,280 mm x 1,950 mm
Conical holding fixture integrated into the table	✓
Fast digital servo control with Microsoft® Windows® control computer	✓
Easy-to-use hand-held control unit	✓
Drive system: Brushless servo motors with absolute encoders, ball-screw spindle for each axis	✓
Minimal quantity lubrication	✓
Machining spindle	Precision high-frequency spindles from 0.6 to 4.0 kW with up to 60,000 rpm
Tool changer with integrated tool length sensor	5-fold tool changer with HSK-E 25 (optional, up to 36-fold) 15-fold tool changer with direct shank (optional, up to 45-fold)
Feed	up to 22 m/min
Positioning feed	up to 22 m/min
Weight	approx. 2,500 kg
Article Number	0A03301A/B

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.