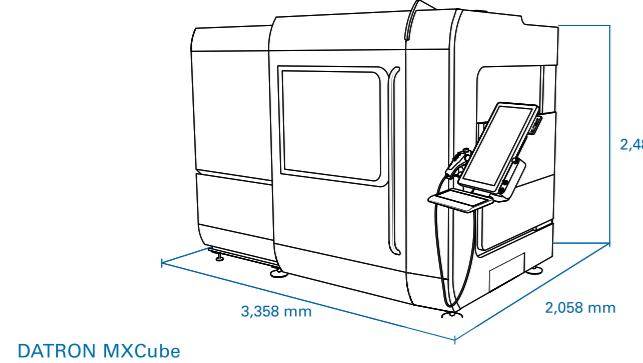
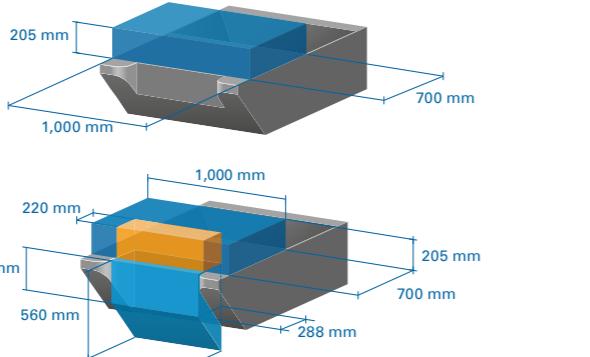


Technical Data



DATRON MXCube	
Machining table	Table made of mineral cast, available as full table or table with breakout + Standard: Integrated conical thread, vacuum and compressed air connections + Optional: Vacuum distributor
Max. traverse path (XxYxZ)	1,040 mm x 850 mm x 270 mm
Machining area (XxYxZ)	1,000 mm x 700 mm x 205 mm
Portal height	205 mm
Dimensions (WxDxH) without terminal	2,702 mm x 1,859 mm x 2,481 mm
Dimensions (WxDxH) with terminal, folded out	3,358 mm x 2,058 mm x 2,481 mm
Control system	DATRON next with 24" multi-touch operating terminal including keyboard
Direct absolute path-measuring systems	All axes
Positioning feed x/y	40 m/min
Positioning feed z	28 m/min
Chip conveyor	Optional
Weight	3,800 kg
DATRON MXCube 4 kW	
Connecting power	10 kW; CEE 16 A
Spindle	4.0 kW Synchro spindle
Rotation speed (max.)	40,000 1/min
Interface	HSK-E 25
Cutting edge diameter (max.) (Monoblock or stepped end mills)	20 mm
Shank diameter (max.)	10 mm
Thread cutting	No
DATRON ToolAssist (Number of slots for tools)	60 or 143
Spraying	4 adjustable nozzles or 4 fixed nozzles
Internal tool cooling	No
Coolant tank	9 liters for exterior cooling only
2nd coolant tank	9 liters for exterior cooling only (switchable)
Axle extension	DATRON Axis4 or DST
DATRON MXCube 8 kW	
Connecting power	14 kW; CEE 32 A
Spindle	8.0 kW Synchro spindle Vector control
Rotation speed (max.)	34,000 1/min
Interface	HSK-E 32
Cutting edge diameter (max.) (Monoblock or stepped end mills)	24 mm
Shank diameter (max.)	12 mm
Thread cutting	up to M5
DATRON ToolAssist (Number of slots for tools)	60 or 110
Spraying	4 adjustable nozzles or 4 fixed nozzles
Internal tool cooling	Yes
Coolant tank	9 liters for interior/exterior cooling (switchable)
2nd coolant tank	9 liters for exterior cooling only (switchable)
Axle extension	DATRON Axis4



We are glad to provide you with detailed information:
+49 (0) 6151-1419-0

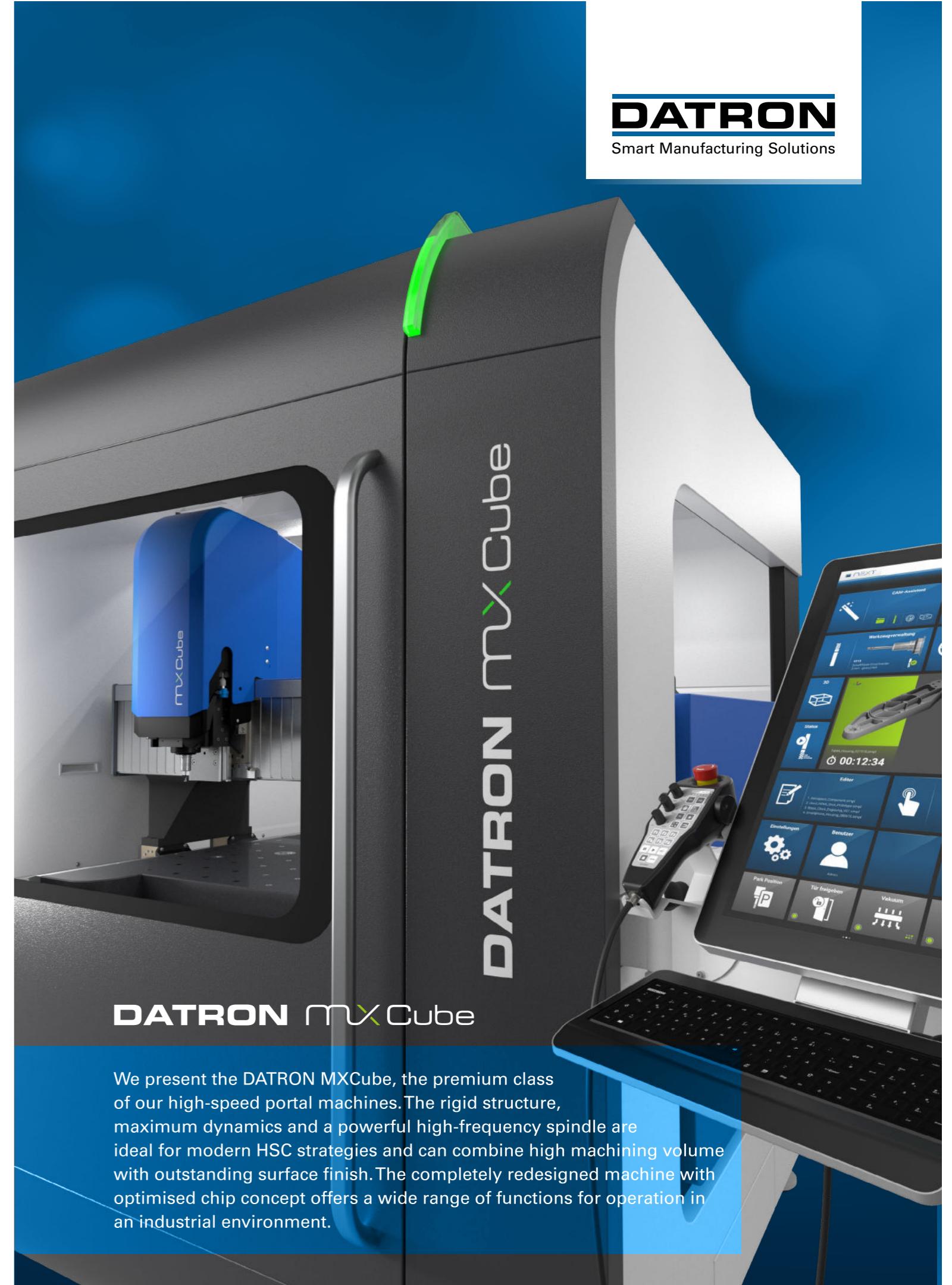
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RZ DATRON MXCube EN 230825_V1



We present the DATRON MXCube, the premium class of our high-speed portal machines. The rigid structure, maximum dynamics and a powerful high-frequency spindle are ideal for modern HSC strategies and can combine high machining volume with outstanding surface finish. The completely redesigned machine with optimised chip concept offers a wide range of functions for operation in an industrial environment.

DATRON
Smart Manufacturing Solutions

DATRON

HIGHLIGHTS

Automation & Handling

Heavy plates or clamping systems can be easily placed in the machining area manually or with a crane. It can also be integrated into an automation solution.



Chip conveyor

Optionally available for installation on the right or left of the machine for reliable removal of chips from the machining area.

Compact base

Your DATRON Plus: extremely large machining area compared to the compact base.

DATRON next

The (r)evolutionary DATRON machine control system makes HSC milling easy, secure and convenient.

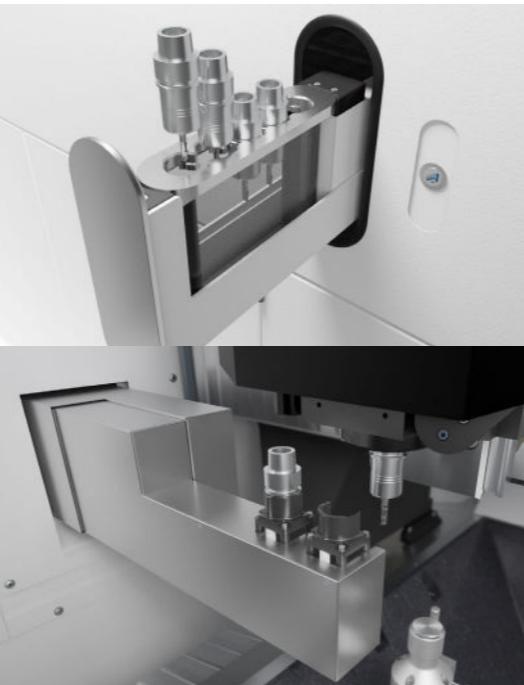


Functional cabin

Robust steel construction with advanced design for years of industrial operation. Excellent access to all functions facilitates operation and service. A large panel ensures clear visibility of machining. The conspicuous LED display shows the machine status from a distance.

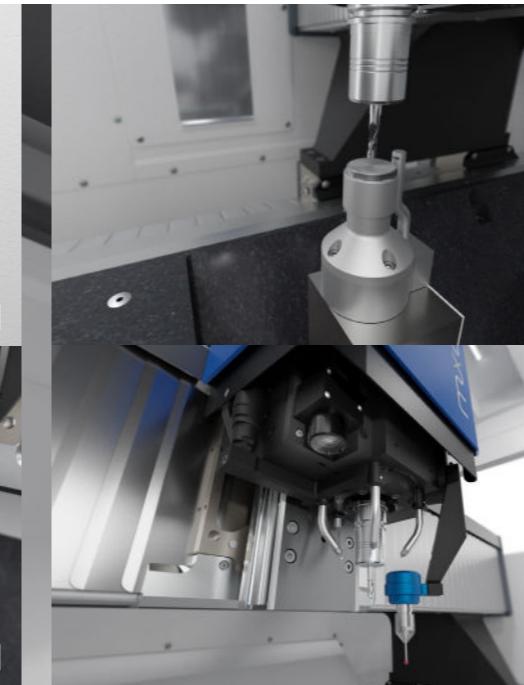
DATRON HSC milling

High dynamics, high speed and feed rates, a rigid portal structure and economical minimum-quantity cooling lubrication ensure optimal results for machining aluminium, non-ferrous metals.



1 Tool changer

The tool changer with space for up to 110 tools is outside the machining area. It enables simultaneous loading and unloading of tools at all times.



2+3 Sensors

The tools are measured with a tool length sensor. The optionally available combination of an XYZ sensor with swivel arm and camera enables precise setup of the work piece zero point in seconds.

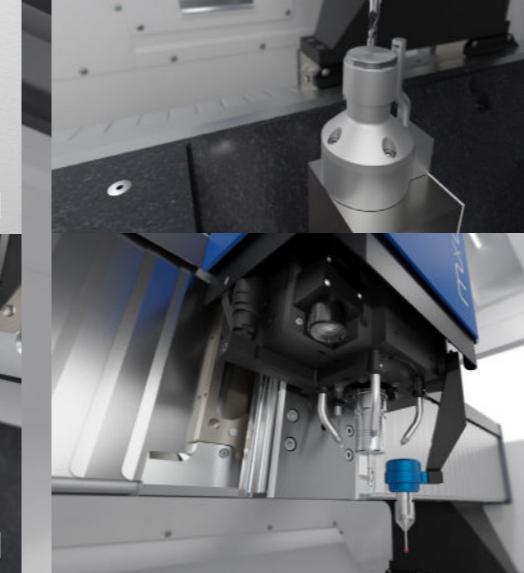
4 Chip concept

Steep angles $>45^\circ$ on all sloping surfaces ensure optimal chip removal.



5 Working area

A generous working area of 1000 mm x 700 mm that can be completely milled is ideal for machining plates and other flat components (batched milling etc) and gives you maximum flexibility with the use of multiple identical or different clamping systems without having to set up again (e.g. multiple clamping).



6 Machining table

The solid mineral cast machining table has ideal damping properties and can take a load up to 500 kg. It has integrated functional components such as connections for vacuum and compressed air supply and conical threads for quick and easy attachment of clamping systems.



7 Minimum-quantity cooling lubrication system

The DATRON minimum-quantity cooling lubrication system ensures reliable cooling with low coolant consumption during the machining process. The use of ethanol gives you machining results on your work pieces completely free from residues. An optional second coolant tank allows fully automatic switching between different coolants during machining. Internally cooled tools are also an optional extra.

10 Portal structure

The light-weight portal structure is optimised for the flow of forces and offers optimal rigidity for high accelerations with DATRON HSC milling. It is the basis for outstanding surface finishes.