

THE IDEAL CNC MILLING MACHINE FOR ALUMINIUM CUTTING

Technical Data:

- + 3.0kW spindle
- + up to 24 tool stations
- + Installation dimensions (W x D x H) without terminal
1,740 mm x 1,740 mm x 1,950 mm
- + Weight approx. 1,300kg

RECOMMENDATION!



DATRON M8Cube	✓
DATRON HSCpro or DATRON next control system	✓
3.0 kW spindle with HSK-E 25 insert	✓
CNC hand-held control unit Pro B10-2	✓
Minimum-quantity cooling lubrication system, incl. spray unit	✓
Tool changer, 12 fold/24 fold, HSK-E 25	✓
Precision tool length sensor	✓

Optional accessory technology packages

We offer a series of powerful accessory combination packs at attractive prices:

Vacuum Technology

DATRON vacuum plates feature high flexibility, high comfort of use and short changeover times.

- + Vacuum distributor 2fold Pro
- + Vacuum plate meandering groove 1,000 x 500 x 30 mm
- + Vacuum pump 100cbm, 3 x 400 V, 16 A, 1 1/4" Pro

XYZ Sensor

The XYZ sensor guarantees short setup times, increased precision and cost-efficiency by automatically measuring reference edges and height profile.

- + Precision sensor ZTP-R
- + 3D-(X,Y) extension for X,Y,Z sensor

Compact Centric Clamp

DATRON's compact centric clamps are high-quality and extremely accurate clamping systems.

- + Specially developed slide geometry with a guide length of 150 mm
- + Fully enclosed, 100% protected against soiling

CNC Milling Tools

Due to years of experience and intensive communication with our customers, we develop tools especially designed for high-speed machining.

- + Customer specific tool package

DATRON next Software Options

With the optionally available features, you can adapt the extensive DATRON next control system to your individual needs.

Training

Our system training sessions allow you to acquire all the essentials to use our machines and systems effectively and efficiently in a very short time.

- + e.g. 3-days training in DATRON TECH-ACADEMY, Mühlital

OUR SERVICE IS ALWAYS AVAILABLE TO YOU!



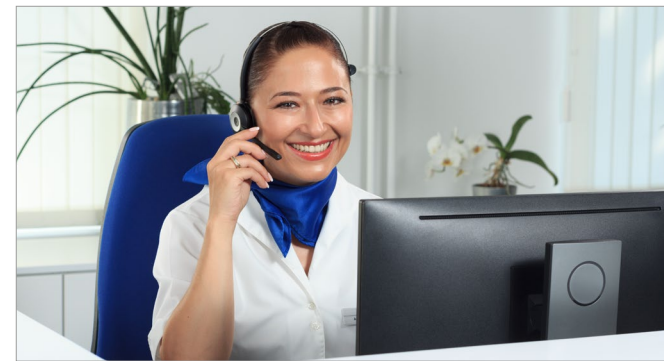
Decentralised

We are represented wherever we are needed. The local service team of our partners abroad is at your disposal. Closeness saves time and money: for this reason, DATRON offers several service centres in Germany and worldwide at many of our more than 20 representative offices and agents.



Cost-effective

Teleservices, e-Messenger, remote maintenance: we offer the latest information technologies for the fastest possible diagnoses and cost effective service.



Friendly and Reliable

Our hotline will help you to find solutions and solve problems, even with software and programming issues. A comprehensive stock of spare parts guarantees shortest delivery times.



Competence

Trained staff and many years of application experience and in-house practice guarantee the high quality of DATRON's service worldwide. As a result you get sound and competent advice and fast troubleshooting.

DATRON
Smart Manufacturing Solutions

CNC Machining System DATRON M8Cube

HSC Aluminium Machining Example: Tool and Mold Making



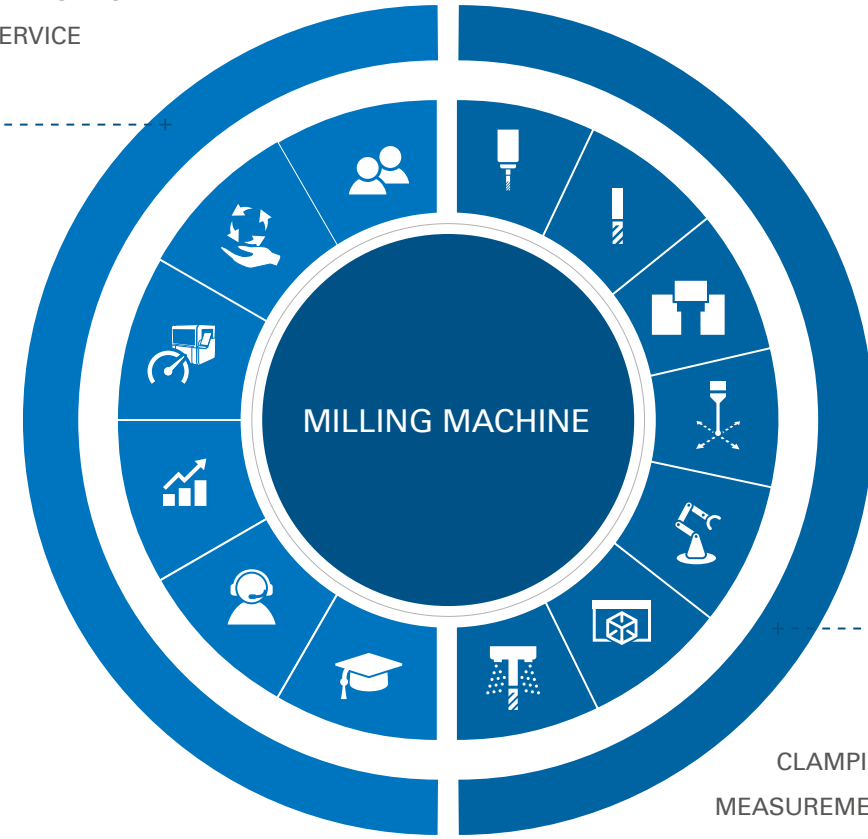
Watch the dynamic machining of aluminium using DATRON CNC technology!

Scan the QR code with your smartphone in order to watch the video or visit our YouTube channel and learn more about the diverse applications of DATRON CNC milling machines: www.youtube.com/DATRONAG

MORE THAN JUST MACHINE CONSTRUCTION – YOU ARE IN EXPERT HANDS FROM A TO Z

We at DATRON see ourselves as your partner for a successful production. Our service: Everything from one source. DATRON not only offers cutting-edge machine constructions with “Made in Germany” solidity and reliability. We accompany you through the entire workflow from technology consulting over the sales process, optimal maintenance and repair services up to training and give you tips for a energy- and cost-efficient production.

- TECHNOLOGY CONSULTING
- PROCESS SUPPORT
- MACHINE PERFORMANCE DEMO
- PROGRAM OPTIMISATION
- CUSTOMER SERVICE
- TRAINING



- HF SPINDELS
- MILLING TOOLS
- CLAMPING TECHNOLOGY
- MEASUREMENT TECHNOLOGY
- AUTOMATION
- CAM SOFTWARE
- COOLANTS/LUBRICANTS

THE PERFECT MACHINING SYSTEM FOR YOUR APPLICATION

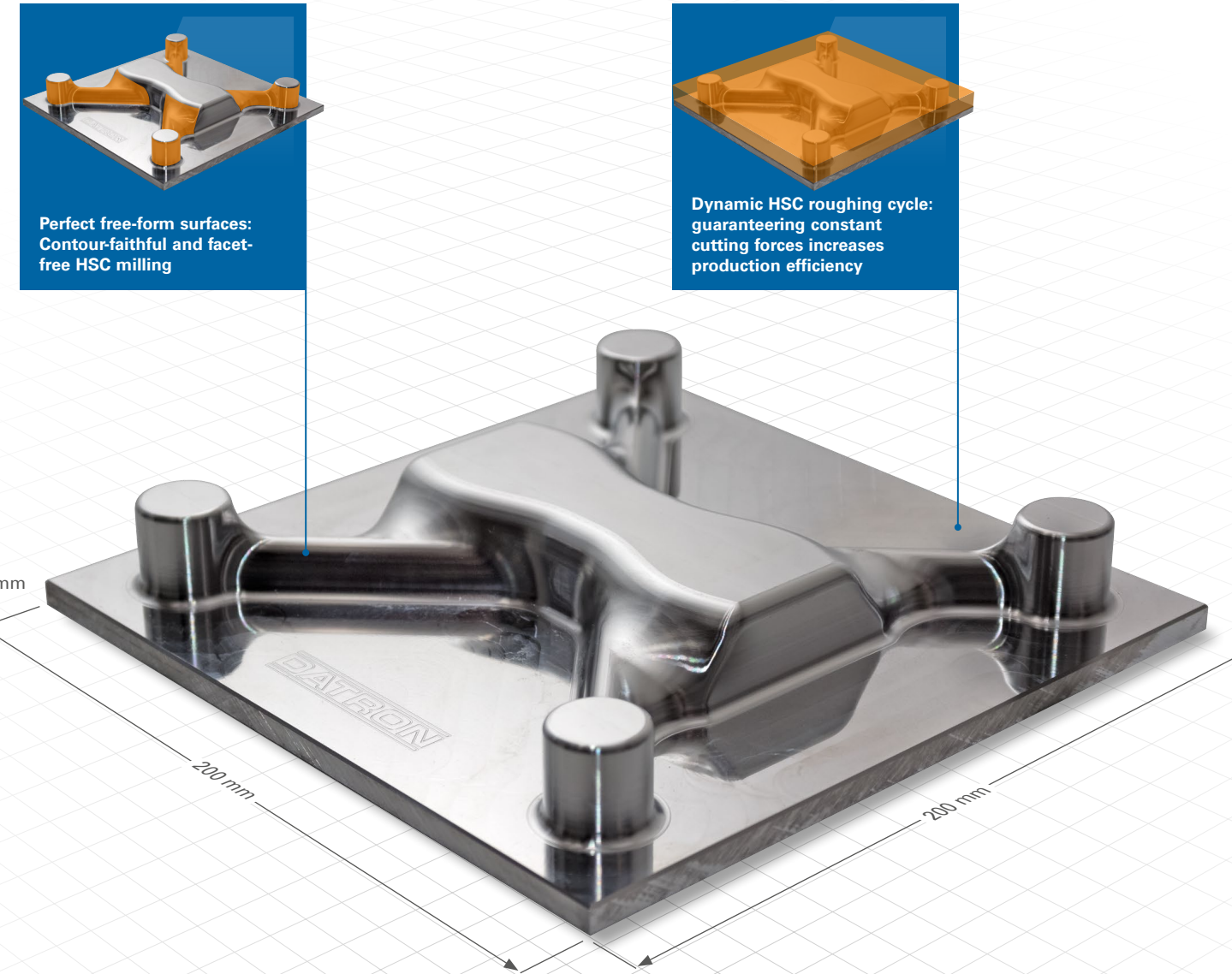
DATRON M8Cube

- + High dynamics through optimised control and mechanical structure designed for speed and stiffness
- + Very high clamping performance with the smallest tools by means of high-speed precision spindles with up to 60,000 rpm and 0.6 kW to 4.0 kW output
- + Stiff, vibration-free design of the machine allows excellent surface finishes when machining
- + High precision due to high-quality linear guides, ball screw spindles, HSK-E 25 tool inserts (optional) and precision-crafted structural elements



WE PROVIDE SOLUTIONS FOR YOUR REQUIREMENTS

Especially in the electronics and in tool building industries short change-over times, faultless reproducibility and flexibly equipped milling cycles are key. With our combinations of modular machine systems, efficient accessories and highly precise tools you are well prepared for the production requirements of today and tomorrow. Even sophisticated shapes and surface geometries that were previously effected by other production techniques can be realized with DATRON technologies most economically.



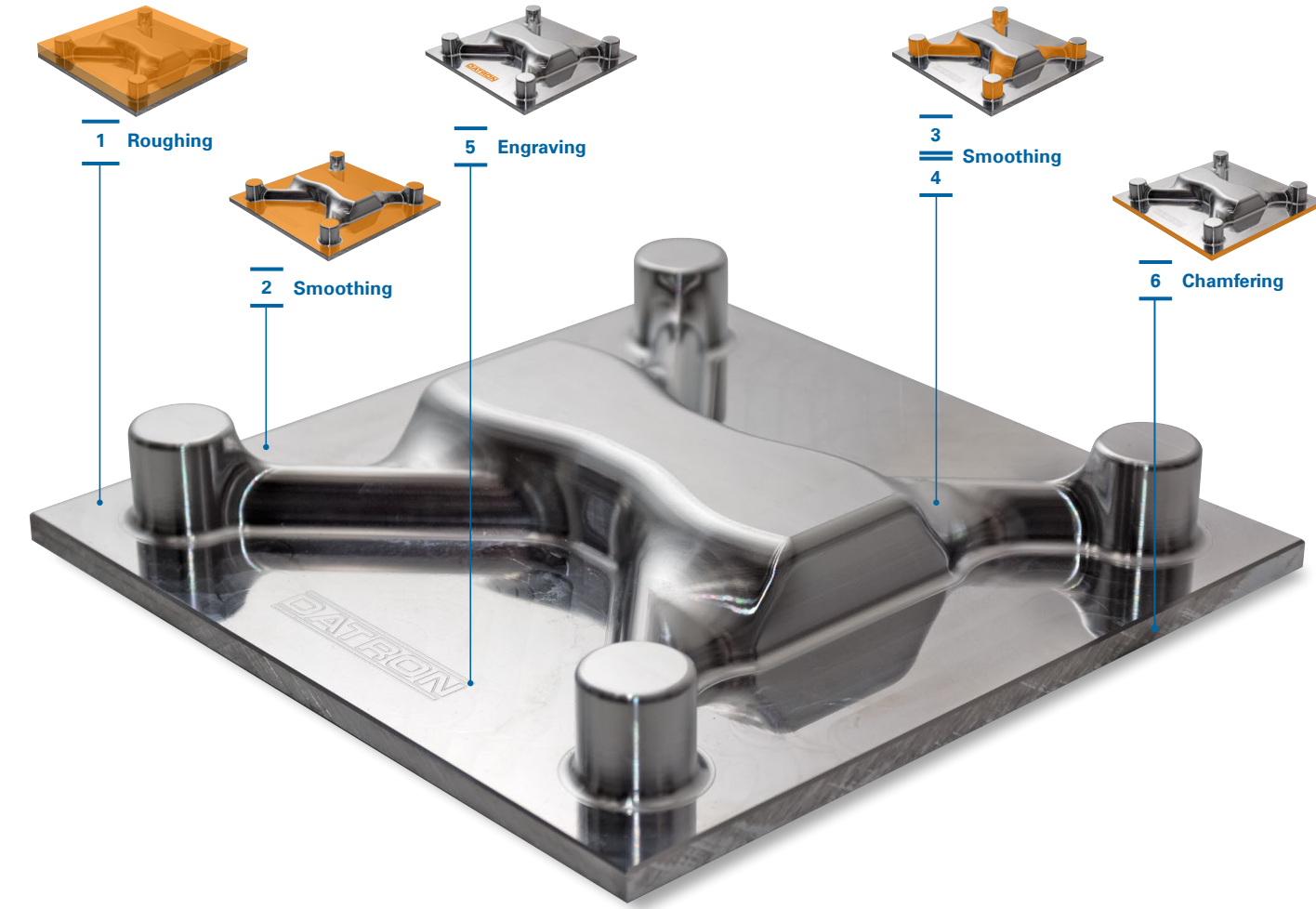
Set-up and machining times

Very short set-up and machining times due to the perfect matching of CNC technology, software, tools and milling strategy, everything from one single source: DATRON.

Machining time with DATRON M8Cube:
75 minutes

MILLING STRATEGIES USED

(Selection)



	1	2	3	4	5	6
Machining:	Roughing	Smoothing	Pre-smoothing	Smoothing	Engraving	Chamfering
End mill:	Monoblock, Ø 20	Monoblock, Ø 20	Ball End Mill, Ø 6	Ball End Mill, Ø 6	Ball End Mill, Ø 1	Countersink tool, Ø 6
Number of flutes:	2	2	1	1	2	3
Revolutions:	34,000 rpm	36,000 rpm	36,000 rpm	36,000 rpm	40,000 rpm	30,000 rpm
Feed rate:	8 m/min	3 m/min	10 m/min	7 m/min	1 m/min	5 m/min
XY infeed:	18 mm	8 mm	0.1 mm	0.1 mm	0.1 mm	0.5 mm
Z infeed:	1,7 mm	0.1 mm	0.5 mm	0,1 mm	0,1 mm	0,5 mm
Dynamics:	5	1	5	1	3	3
CAM chord error:	0.01 mm	0.002 mm	0.01 mm	0.003 mm	0.01 mm	0.01 mm
PerfectCut chord error:	0.05 mm	0.005 mm	0.05 mm	0.005 mm	0.01 mm	0.01 mm
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