

DATRON

DATRON M8Cube

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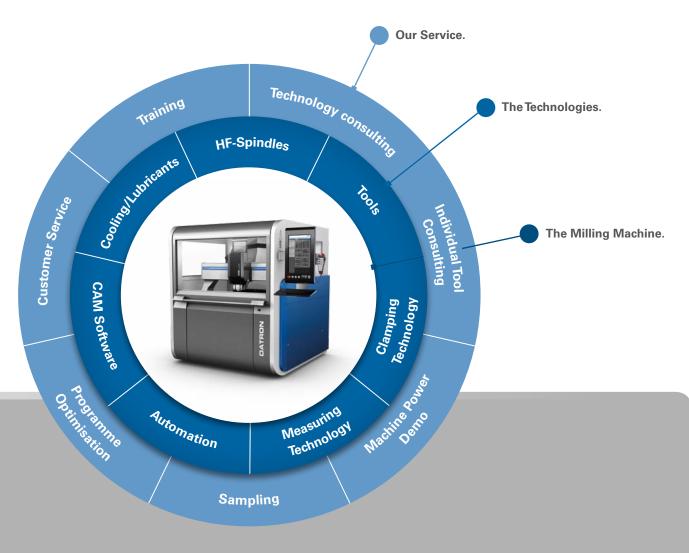
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milling, drilling and engraving faster – more dynamic – more cost-effective



More than just machine construction – Absolutely everything from DATRON's expert hands

We at DATRON see ourselves as your partner for successful production. Our service: everything from one source. DATRON offers not only cutting-edge machine construction 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 energy-saving and cost-reducing production.



DATRON **M8**Cube

Highly dynamic machining of aluminium and other high-tech materials

The DATRON M8Cube is the best choice for efficient machining of housings, profiles and panels made of aluminium.

But other nonferrous metals or composite materials can also be machined most efficiently with the M8Cube. Short setup times, very low power consumption and excellent value for money allow high cost-effectiveness, even at low volumes.

Your benefits at a glance:

- You save space! Very large machining surface with a small footprint.
- You save money! The M8Cube is accessible to buy and has extremely low operating costs.
- You get new opportunities in milling, drilling and engraving! The M8Cube has been developed for machining high-tech materials with small tools (Ø 0.1 mm to 20 mm).

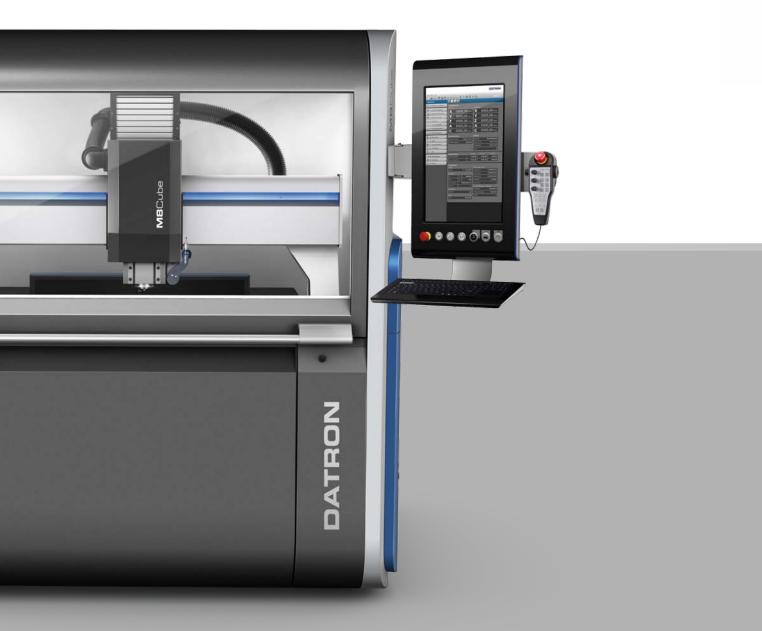
Innovative "Made in Germany" milling technology for your success.



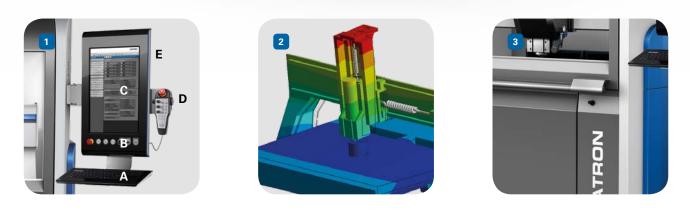
M8Cube Highlights

You have special tasks to perform – we have the solution for you

- High dynamism through optimised control and mechanical structure designed for speed and stiffness
- Very high clamping performances with the smallest tools by means of high-speed precision spindles with up to 60,000 rpm and 0.6 kW to 3.0 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







Operating terminal with portrait monitor (optional)

- A Chip-proof IP68 fatigue-proof short-travel keyboard and integrated touch pad.
- B Easily accessible controls with extra quick-start keys for "open door", "spindle on/off" and "run macro", as well as USB 2.0 port.
- C Chip-proof monitor with highresolution portrait display for optimal viewing.
- D Ergonomic hand-held control unit
- E Signal lamps integrated into the portal and the side of the operating terminal to display machine status (optional).

2 Mechanical system optimised for dynamism

The M8Cube owes its high dynamism and quality to its completely new mechanical structure characterized by an optimum stiffness to weight ratio. The mechanics for highly dynamic cutting could be further optimised by means of intensive FEM calculations.

A massively reinforced polymer concrete table allows optimum vibration damping, leading to perfect milling results.

3 Improved door concept

The innovative door concept is the result of further development and optimisation of the previous DATRON M8 door. Much improved ergonomics allow working with comfort.

Spacious chip carriage

The spacious chip carriage is optimally designed for mass production.

It can be easily moved with little effort - even when full - due to its low-resistance wheels.

Technical Data **M8**Cube



Energy-saving:

Very low power consumption at high cutting rates due to the use of energy-efficient aggregates.



Money-saving: Accessible to purchase and

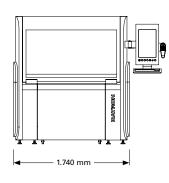
to run.



Space-saving:

Great operating range with an exceptionally small footprint.







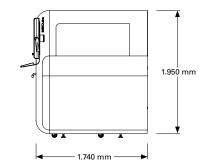
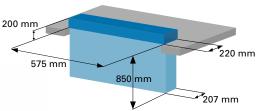
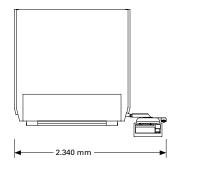


Table with cut-out:

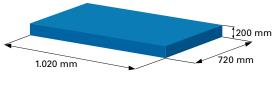
Table

Machining area within the vertical clamping area
 Maximum workpiece size





Full Table: Machining area



Technical Data	DATRON M8Cube			
Machine table	Solid polymer concrete table with steel frame, extremely stiff portal structure with double-sided Y drive with concealed guides			
Traverse path (X x Y x Z)	1,020 mm x 830 mm x 245 mm; with 720 mm tool changer in Y			
Portal passage	200 mm			
Dimensions without operating terminal (W x D x H)	1,740 mm x 1,740 mm x 1,950 mm			
Taper chuck integrated into the table	\checkmark			
Fast digital servo control with Microsoft®Windows® control computer	\checkmark			
Comfortable hand-held control unit	\checkmark			
Drive system: Brushless servo motors with absolute encoders, ball screw spindle for each axis	\checkmark			
Minimal quantity lubrication	\checkmark			
Machining spindle	Precision high-frequency spindles from 0.6 kW to 3.0 kW with up to 60,000 rpm			
Tool changer with integrated length sensor	5-fold tool insert with HSK-E 25 (optional 10-fold), 15-fold tool insert with direct shank (optional 30-fold)			
Feeds	Up to 22 m/min			
Positioning feeds	Up to 22 m/min			
Weight	Approx. 1300 kg			
Article Number	0A03200A (with cut-out section) 0A03200B			



Status display by means of signal LEDs integrated into the operating terminal and the portal to display machine status (optional).



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



XYZ measuring system integrates measuring functions and foolproof material tolerance compensation (optional).



Resource-saving: Minimum quantity cooling lubrication starting at 30 ml/h. Minimal cleaning required (optional).



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





5-axis milling with rotary/ swivel table for precise multi-sided machining of

small parts (optional).

Precision ball screw spindles and linear guides from leading vendors. Brushless direct drives in all axes.

HSCPro Control System

Easy to learn - highly productive

The HSCPro control technology, especially developed by DATRON, is the basis for the high performance of DATRON CNC milling machines.

Due to its high-performance fieldbus connection it allows imaging of the most complex machining procedures and offers other strengths:

- Powerful path processing/planning
- High-speed data processing rate up to 8,000 records per second
- High-performance control computer
- Drive amplifier from renowned manufacturers
- Brushless servo motors

The DATRON HSCPro control system is extremely powerful yet easy to use. This is achieved by a clear DATRON Windows[®]-based user interface and programming with plain text commands. The menu navigation is intuitive so that even complex applications can be programmed easily.

Multiple macro commands are available for demanding milling, drilling and engraving applications. Likewise, existing library functions can be used or new ones can be created by the operator. CAD interfaces allow the use of already existing data.



HSCPro gives you maximum machine performance

HSCPro – Easy to use:

- Easy to learn intuitive menu navigation
- Fast operation by means of DATRON shortcuts
- Simple programming of powerful macro commands

Numerous functions:

- Many milling cycles come pre-configured (e.g. pockets, holes, threads, conical countersinks)
- Continuous expansion through application-specific macros possible
- Protected areas as collision protection for clamping devices
- Different measurement cycles to calibrate the workpiece (including partial measurement field)
- Programme-controlled vacuum technology
- PerfectCut contour smoothing filter

- Pre-calculation of the machining time
- Powerful engraving commands
- Extensive font libraries
- Graphical representation of the milling machining paths

Maximum compatibility:

- Interfaces with all common CAD/CAM systems
- Import of DIN/ISO programming codes (DIW 66025)
- Import of HPGL, drilling data and CL-Print

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User interface HSCPro v9

- Navigation with keyboard shortcuts for fast selection of machine functions.
- 2 Clear view of the machine status by means of a handsome representation
 - Position of the axes
 - Tool information
 - Spindle data
 - Cooling-lubricating system, etc.
- 3 Different operating modes such as editor, simulation, fast setting over keyboard shortcuts.

PerfectCut

Fast, precise and contour accurate HSC milling for excellent surface quality

To achieve ideal reproductions of most complex geometries in HSC milling, DATRON has invented the surface smoothing package PerfectCut. With PerfectCut your DATRON M10 Pro, M8Cube and C5 achieve utmost performance levels and machine perfect surfaces and contours without the need for post-processing – enhancing your productivity!



Production

increase

You achieve high-quality milling results faster

- Significant improvement of manufacturing quality at shorter machine run times
- Less optimisation efforts when programming
- No reworking needed usually

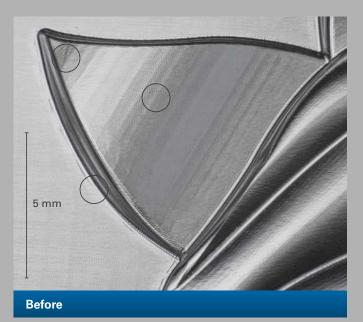
Better surface quality in a shorter time

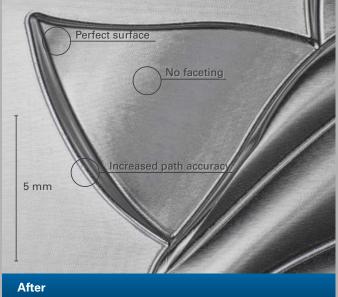
Achievement of better surface finish of workpieces within the same or shorter production time

- Increased path accuracy
- No faceting
- Perfect surface



Original size







Your lead particularly in micromachining



Perfect results, faster

Your machine is protected

You can mill even the smallest free-form surfaces and complex geometries and get perfect results

- Very high surface quality with all materials
- Fast processing with very short segment lengths
- Finest NC blocks with maximum feed rates

Your productivity is taken to new heights

- Fast programming
- Fast calculation
- Fast production

Your machine stays "fit" longer, even at high-volume production

- Less stress on all mechanic parts (especially the spindle) due to smooth running
- Higher capacity while protecting resources
- Increased end mill durability

Fields of Application of the M8Cube

The high-speed milling technology of the DATRON M8Cube provides outstanding results in the following industries and applications:

Electronics

- Front panels and housings
- Membrane keyboards
- Test adapter drilling
- 3D rapid prototyping
- Drilling and milling of test devices
- Milling of solder frames
- PCB milling

Aerospace

- Machining of aluminium plates
- Machining of aluminium profiles
- Precision drilling

Mould and model construction

- 3D aluminium moulds
- 3D rapid prototyping
- Graphite electrodes
- Small steel moulds

Printing

- Engraving of 3D stamps
- Construction of stamping dies
- Hot stamping dies
- Stamping tools

Automotive supply

- Machining of aluminium profiles
- Small steel moulds
- Precision CNC machining



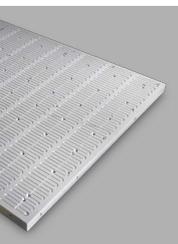








Technologies That Make You Even More Successful!



Clamping technology

Whether pneumatic or vacuum clamping technology: DATRON systems feature high flexibility, high comfort of use and short changeover times. (option)



Measuring technology

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

Cooling/lubricating system

Ecologically and economically optimised processes with ninimum quantity cooling ubrication and correspondingly ncreased durability. (option)



HF spindles

High frequency spindles with speeds up to 60,000 rpm and high concentricity guarantee high cutting performance and perfect machining results when using small tools. (option)



Suction – CleanCut

Nearly chip-free work by means of highly-effective chip suction. No more time-consuming machine cleaning (optional).



CNC milling tools

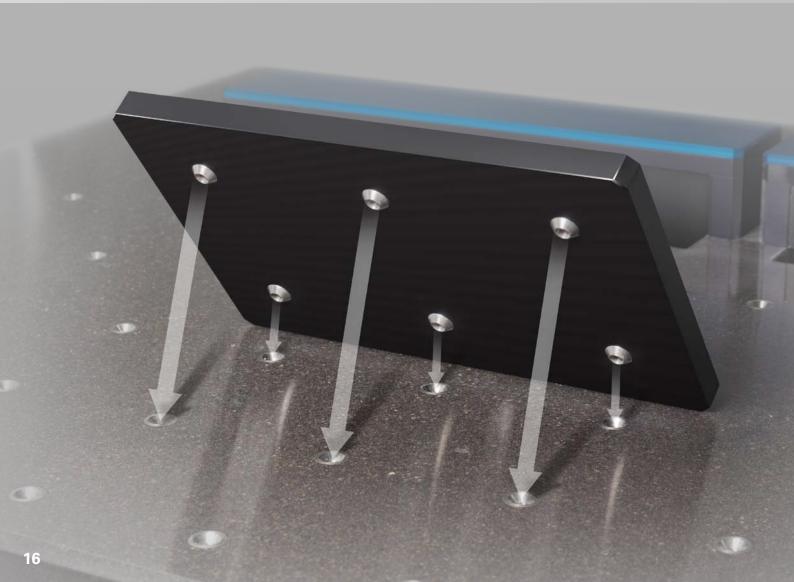
Due to years of experience and intensive communication with our customers, we develop tools especially designed for high-speed machining.

DATRON Module Clamping Technology

The end of tedious and long screwing and setup times!

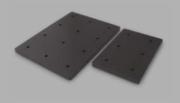
Cost-effective production by clamping within seconds: Setup times can be often reduced significantly with DATRON's modular clamping technology. The module plates are clamped directly onto the machine table using conical centring sleeves.

This applies to all machines with integrated cone clamping systems and allows very fast changing of clamping modules. DATRON offers a variety of ready-made module clamping solutions: module clamping plates with vacuum, T-slots with short-stroke clamping elements, clamping chucks or vices. We will also be happy to design the custom clamping solutions you may need. Benefit from our experience of hundreds of machines installed.





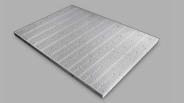
Module clamping plates



T-slot module clamping plates e.g. for short-stroke clamps



Plates with meandering grooves



DATRON Compact centric clamps and multifunction clamps



Rotary axis with tailstock



Description

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Clamping elements such as vices can be fastened onto the module clamping plates. The modules are fastened to the machine table by screwing. Recurrent clamping stations can be installed on these base plates and set up when required.

T-slot module clamping plates offer room for application-specific clamping solutions or the combination of short-stroke clamping elements and fixed clamping jaws. The modules are mounted onto the machine table either by screwing or by vacuum suction.

DATRON's plates with meandering grooves are particularly suitable for clamping flat workpieces and sheet materials. It allows clamping several similar or different workpieces at the same time. DATRON's VacuCard[™] special cardboard is used to distribute vacuum under the workpiece and as sacrificial layer. Plates with meandering grooves are available in different sizes.

Encapsulated DATRON compact centric clamps are 100% protected against soiling. Due to their especially developed slider geometry with a guide length of 150 mm, they are the first fully encapsulated compact centric clamps. Malfunctions due to soiling and jammed chips are something of the past.

The rotary axis is particularly suitable for multisided machining of long workpieces, for circular engravings or for drilling in radial direction. Clamping is done using DATRON's module clamping technique, allowing a variable clamping length. The rotary axis is impact-free and provides high precision and torsional stiffness.

DATRON Vacuum Clamping Technology

It can't be clamped? - Not any more!

Even the smallest pieces can be clamped using the high clamping forces of DATRON's sandwich vacuum plates. The patented VacuCard++ special cardboard is the perfect sacrificial layer. Extremely simple and easy to use. Just set up the pieces and... you are done!

All DATRON machines can be equipped with DATRON's vacuum clamping technology. It allows very high clamping forces due to its especially developed sandwich construction, even in case of shapes and thinnest plate materials difficult to clamp otherwise. Module vacuum clamping plates, available in different sizes, are divided into segments which can be operated separately from each other with a vacuum distributor. Several different workpieces can also be clamped simultaneously.

Time-efficient optimum utilization machining, which allows manufacturing several individual pieces from a single plate, is also possible thanks to the vacuum clamping technology. Highest machine utilization can also be achieved this way.

DATRON's VacuCard special cardboard is used to distribute the vacuum below the workpiece and as a sacrificial layer, allowing complete milling around workpieces and separating them.

The new "VacuCard++" even allows machining small and delicate workpieces due to its self-adhesive surface.

Advantages:

- Very short setup times
- Allows time-efficient optimum utilization machining
- Deformation-free and vibration-free clamping of thin plates
- Allows complete milling around workpieces and separating them

Application:

- Clamping of sheet materials
- Clamping of flat housings
- Clamping of materials and shapes difficult to clamp otherwise



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DATRON Short-Stroke Clamping Elements

One-handed fast setup!

Brilliantly simple to use with the light touch of a button, yet they boast clamping forces of up to 750 N. DATRON's short-stroke clamping elements can be used wherever high flexibility, ease of use and short setup times are required. The clamping elements are designed for operation on a T-slot plate, but can also be used in a stationary manner.

Short-Stroke Clamping Elements Overview

KSE-AS

Short-stroke clamping element for automatic clamping operation

Advantages:

- Automatic opening and closing
- Fast changeover
- Adjustable clamping pressure
- Compact design

Application:

- Flexible clamping of different workpieces
- Mass production

KSE-PH

Pneumatic-hydraulic short-stroke clamping elements

Advantages:

- One-handed operation
- Fast changeover
- Adjustable clamping pressure
- Compact design

Application:

- Flexible clamping of different workpieces
- Batch production



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DATRON Sensor XYZ

Awesome in every dimension

The XYZ sensor is a three-dimensional touch sensor. With its help you can considerably reduce setup times of your milling machine. You increase accuracy and reliability when referencing your workpiece.

By using the XYZ sensor, your production attains higher cost-effectiveness. Time-consuming setups are something of the past. The special feature is automatic compensation, even height tolerances of materials, for example for perfect bevels even of large components, precision depth-machining, and much more.

It is amazing how easy machining of some components can get with measuring sensor.

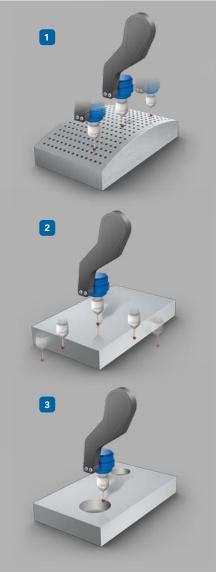


How it works:

Just swing it into the machining area to increase production quality within seconds or to check dimensional accuracy: The XYZ sensor allows you to consistently optimise your production.

1 Material surfaces

The surface of the material is measured by grid scanning. The altitude profile created this way is corrected immediately by the CNC programme or the engraving programme. Navigate away from any uncertainties quickly, easily and comfortably.



Corners and edges

The edge of the material or the height of the workpiece can be calculated precisely with just one measurement. Three measurements allow determining both the height of the material and the exact position of a rectangular edge of a workpiece.

Advantage:

The determination of reference points on workpieces is achieved much more accurately with the XYZ sensor and within a fraction of the time of conventional methods.

3 Centres of workpieces

The centres of circular or rectangular islands or cut-outs can be determined automatically.

Advantage:

The centre of the workpiece can be precisely determined within just a few seconds, without needing long setup times. For example, by measuring two holes drilled for reference, a non-angular clamping can be compensated by rotating the coordinate system.

DATRON Cooling/lubrication systems

DATRON minimum quantity cooling lubrication systems are the result of years of application experience. Depending on the cooling medium, there are minimal residues or none at all. No cleaning, no degreasing: a great advantage for many applications.

DATRON EK-M cooling/lubrication system

This minimum quantity cooling/lubrication system can be used with different coolants/lubricants and is designed for reliable and reproducible results in milling and engraving processes with particularly small amounts of fluid.

There are three different spray head variants available for this system:

EK-VM-R

The circular spray head for HSK-E 25 spindles has four nozzles and is used in connection with CleanCut and machines with 11-fold tool changer.

EK-VM-4+

Spray head with four adjustable nozzles and bundled jet. It can be used for both spindles with HSK or direct shank clamping.

DATRON EK-D cooling/lubrication system

This cooling/lubrication system for ethanol is suitable for spindles with direct shank clamping. Ethanol is sprayed through two nozzles onto the workpiece and the tool. The heat energy generated during milling is withdrawn by the evaporation process. In addition, ethanol lubricates the flute of the tool, thus increasing its service life. Cleaning the workpieces after machining is eliminated due to the complete evaporation of ethanol.







DATRON CNC High Frequency spindles

Precision in the micron-range, speeds up to 60,000 rpm

DATRON offers the right spindle for every need: from ultra-powerful, precision high-speed spindles to robust and cost-effective "workhorses". High quality, precision and durability are common features of all DATRON high-frequency spindles.

The expert selection of the appropriate spindle for your particular application is a particularly important point when configuring your milling machine.

Our experts will advise you on the spindle that is the most efficient solution for you.

PowerS

Powerful and extremely precise high-frequency spindle with HKS-E tool holder. For highest quality with high cutting performance. 3.0 kW at up to 40,000 rpm.

HighS

This universal spindle for high-speed milling, drilling and engraving is available in three different versions:

HighS L0.6 with 0.6 kW and up to 60,000 rpm, direct shank clamping, air cooling through spindle insert

HighS M1.8 with 1.8 kW at up to 48,000 rpm; HSK-E 25 tool insert

HighS H2.0 with 2.0 kW at up to 60,000 rpm; direct shank clamping

EcoS

A particularly robust and efficient high-frequency spindle with direct shank clamping and automatic tool changer. Speeds up to 28,800 rpm with 1.2 kW power.

Spindle type Spindle performance	Speed range (1/min)	Tool clamping technology	max. shank diameter/max. tool diameter for automatic tool changer (mm)	Internal cooling	Cooling/lubrication system
HighS L0.6 HF-Spindel 0.6 kW	6,000 - 60,000	Direct shank clamping	8/14	Air	DATRON cooling lubrication system
EcoS P1.2 HF-Spindel 1.2 kW	5,000 - 28,800	Direct shank clamping	8/14	Air	DATRON cooling lubrication system
HighS H2.0 HF-Spindel 2.0 kW	6,000 - 60,000	Direct shank clamping	8/14	Liquid cooling	DATRON cooling lubrication system
HighS M1.8 HF-Spindel 1.8 kW	5,000 - 48,000	HSK-E 25	10/20	Liquid cooling	Minimum quantity cooling lubrication systems 51/91 with filling level sensor
PowerS Synchro 3.0 HF-Spindel 3.0 kW	1,000 - 40,000	HSK-E 25	10/20	Liquid cooling	Minimum quantity cooling lubrication systems 51/91 with filling level sensor



DATRON CleanCut

Save time and work cleanly: the CleanCut suction system is highly effective.

DATRON's CleanCut system provides highly effective chip suction. By means of this suction technology especially developed for plate-machining, almost chip-free working is achieved. Time-consuming machine cleaning is no longer necessary.

Perfect for sensitive surfaces: chips are vacuumed off without any contact. Automatic extension and retraction of the suction head represent a further saving of time.

Properties:

- Programme-controlled swinging in and out
- Precise adjustment of surface distance
- Contact-free suction
- Compatible with tool-changing station and XYZ sensor
- Automatic swinging in and out with parking function activated
- Available for spindles with direct-shank and HSK-E 25 inserts
- Possibility of minimum quantity lubrication

DATRON CNC Milling Tools

Profitable milling, drilling, and engraving

DATRON offers innovative HSC milling and engraving tools for even greater success in your production.













Precision:

- Drilling from 0.1 mm
- Milling from 0.2 mm
- Thread milling from M1

Cost-effectiveness:

- Maximum cutting performance
- Maximum durability
- Maximum process safety

Made in Germany"quality:

- Development
- Testing
- Production

DATRON Technology:

- Intelligent geometries
- Patented tools
- The most modern grinding machines

Individual tools:

- Development and manufacture according to customer specifications
- Suitable for specific applications
- Production in the shortest time

Milling Tools for **Aluminium**

High Performance

High cutting performance, quiet operation and smooth surfaces: milling tools such as the patented single flute end mill with counterbalanced cut, DATRON'S two flute end mills for smoothing and planing or our threading tools, support you in profitable machining of light metals.



Milling Tools for **Plastics/Composites/Foams**

Wear-resistant

Due to optimal chip removal, extremely fast feed rates without melding and burr-forming are also possible with plastics.

The generation of single flute end mills with polish grinding for machining plastics, allows highest-quality surface-finishing.

With DATRON's special tools for foam machining, excellent surfaces and sharp edges can be manufactured in short processing time. A particular unique feature is chamfering workpieces in a single step!







DATRON Customer Service

From installation to many years of product support: You can count on us!

DATRON guarantees maximum effectiveness in the operation of the machines, even many years after purchase – worldwide! By means of practical instruction and training, you will benefit from the full potential of our machines, right from the start.

The latest diagnostic tools and the in-depth expertise of our staff ensure smooth running of your production.

Our proven spare parts service and our customeroptimised maintenance programme minimize downtimes significantly. When you purchase a DATRON system, you receive much more than just a machine with controls: you get a team of experts that fully supports you!

For more information about our Customer Service, please visit: **WWW.Service.datron.de**

Decentralised

We are represented wherever we are needed. The local service team of our representatives 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 in the event of any malfunctioning problem.





DATRON Technology Centre

Which machine is best for your manufacturing process depends on many individual parameters. Sound technical advice and the creation of samples are therefore part of our most important services. Accurate analysis of your production task forms the basis for our expert advice to optimise your entire production process.

We offer:

- Creation of client-customised samples according to drawings (in printed or electronic form)
- Product demonstrations of our CNC milling machines
- Technological advice on CAD/CAM selection, clamping technology and DATRON's high-speed milling-tools

DATRON Turnkey Solutions

With an extensive range of accessories and the knowledge of our experts, we optimise DATRON machine configuration for your production. Choose among several machine sizes and a range of powerful machining spindles.

The choice is yours: expand a particular machine with the appropriate clamping technology, the optimum cooling spray system, rotary axes, sensors, automation, CAD/CAM software packages and much more.

We provide our customers with:

- Tailor-cut solutions
- Individual application advice
- Integrated clamping technology and automated solutions
- On-site installation and training
- Industry-leading service and support

Complete Process Chain

Profit from the profound knowledge of our experts in many fields of production technology. We will be happy to advise you in optimising all stages of the production chain: from CAD design to CAM data generation, clamping and measuring technology, tool and cooling technology up to the entire material flow.

Tuning and optimising the entire process chain often leads to that crucial cost and quality advantage!



DATRON Efficient and Energy-saving

Energy-efficient machines and the cost-effective use of resources play an increasingly important role in production processes. Through their innovative lightweight construction and energy-efficient drive technology, DATRON machines are more cost-effective already today. DATRON milling machines require on average less than 2.5 kW/h, even at high cutting capacities. The proprietary minimum quantity cooling lubrication system developed by DATRON also offers a highly cost-efficient and environmentally-friendly solution.





Saves energy: Very low power consumption by means of highest efficiency of al aggregates.



Saves money: Low-cost in purchase and operation.



Saves resources: Minimum quantity lubrication from 30 ml/hour. Minimal cleaning costs.

Footprint Work space

Saves space: Large machining table at extremely small footprint.



DATRON Innovative Technology "Made in Germany"

continuously improve our products, our experts are

manufacturing processes. Our innovation strength is

to service.

DATRON Machine Overview

DATRON'S CNC milling machines and DATRON's quality tools are perfectly matched to each other. The combination of machine, tools and accessories ensures highest quality, precision and process reliability for your production.

Powerful and highly accurate

DATRON **M10** Pro



Productive and versatile

DATRON **M8**Cube



Compact and cost-effective

DATRON **M7** DATRON **M75**



Large-sized and efficient

DATRON **ML**Cube



5-axis, precise and compact

DATRON **C5** Datron **D5**



DATRON About us

DATRON AG

Dedicated staff and innovative products

We develop, produce and distribute innovative CNC milling machines for the machining of future-oriented materials such as aluminium and composite materials, dental milling machines for the efficient processing of all common denture materials in dental laboratories and highperformance dispensing machines for industrial sealing and bonding applications.

Strong focus on customer value, a very good priceperformance ratio, low power consumption and flexible adaptation through modular lightweight construction are a common feature of all our products. Standard solutions can be adapted to a very large extent to individual customer requirements.

Production and automation processes can be improved significantly due to components matched already during their development and the resulting superior technological features of DATRON's products. This not only leads to higher production quality, but also to lower manufacturing costs!

DATRON's core products are:

CNC milling machines for high-speed milling and 3D engraving

Milling, drilling and engraving of aluminium, stainless steel, plastics and composites. High production speeds and results are achieved with speeds of up to 60,000 rpm.

We are the market leaders in Germany in the field of front panel and housing machining.

Dental CAD/CAM milling/grinding machines

The ultracompact 5-axis milling/grinding machines are suitable for machining all common dental materials. Equipped with 8-fold automation and 12-fold tool changer, DATRON's machines are the best choice for industrial dental mass production with high reliability, speed and precision.

VDispenser®-Dispensing machines for precise and rapid bonding and sealing

Our precise-volume dispensing technology is available and patented worldwide. Strong cost advantages result in mass production due to the high dispensing quality and speed of our systems.

Tools for high-speed machining

The quality of the tools is essential to determine machining results in high-speed machining. Our technological and advising expertise enables our customers to produce more economically than their competitors.

Technical customer support

Training, service hotline, maintenance, accessories and spare parts sales: Our professional service and expert advice in all fields leads to high customer satisfaction and to the "German Customer's Champion 2011" award.







For detailed information call us at: +49 (0) 61 51 - 14 19 - 0

by email: info@datron.de

or online at: www.datron.de

ATRON M8Cube Broschure 210414 EN V10

The information in this brochure includes change due to ongoing development of c components. Descriptions and performar upon conclusion of the contract

roducts. Some of the depicted machines include o aatures are only binding if expressly agreed on in DATRON AG In den Gänsäckern 5 64367 Mühltal, Germany

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