



DATRON
Dental CAD/CAM

DATRON **D1**pure

Precise. Powerful. Pure.

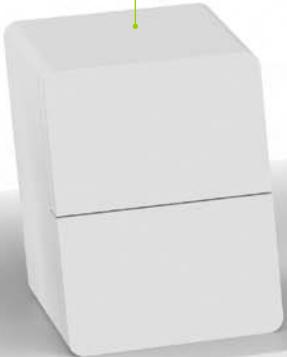


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WE UNDERSTAND DENTAL

because of Our Dental Technical Know-How

Besides being experts in machine construction, we are also experts in the dental field: A large team of dental technicians and dental engineers takes care exclusively of your requirements in the dental lab. We anticipate technology trends and translate them into product developments that lead you and your lab to the top of the industry.

With the D1 pure we offer newcomers to CAD/CAM the opportunity of independent 5-axis milling after just a short

training period. With this compact dental solution you will be able to produce a large number of indications quickly, cost-effectively and reliably. The D1 pure meets your technical dental needs, whether you integrate it as a comfortable complete solution including a customized digital workflow into your lab or as an individual component into your existing CAD/CAM system via open interfaces.

Our compatibility supports your technical dental independence.





PRECISION AND ABSOLUTE AESTHETICS

in all soft materials

With the D1 pure you achieve the highest accuracy and surface quality when machining zirconium oxide, PMMA, wax and polyamide.

DATRON offers you the possibility of producing a wide range of top quality indications when machining soft materials. You attain more efficiency in the CAD/CAM workflow with perfect cutting results and long milling tool durability.

The DATRON D1 pure is convincing due to:

- + 5-axis simultaneous milling capability with rotary/swivel axis (work angles of $\pm 25^\circ$)
- + Easy/intuitive operation with a minimal training period
- + Process reliability due to its CAM software especially adjusted to the hardware and pre-configured milling strategies (templates)
- + Production of a wide range of indications (soft materials): changing of milling blanks takes only a few seconds
- + Optimal reproduction of complex tooth geometries (in particular surface finish, fissures)
- + Anatomical separation of the supports within the milling blanks (best possible utilisation of the material)
- + Very high edge stability of the restorations due to the smooth running of the D1 pure
- + Open interfaces to all peripherals in the digital workflow (scanners, CAD systems, etc.)

ZIRCONIUM OXIDE

Indications with decreasing wall thickness can also be produced reliably and accurately. The risk of tooth edges breaking out is minimised.

The optimal calibration of the machine for soft materials results in the smooth running of the system and leads to cleanly milled restorations that require almost no reworking.

Fitting accuracy



Even with diverging tooth tumps, undercuts can be milled with the highest degrees of freedom for a perfect fit due to the wide work angles of the rotary/swivel axis.

Precision



The smallest fissures of the occlusal surfaces and other individual details of the tooth surface can be accurately reproduced.



PMMA

Crown and bridge restorations made of PMMA, which serve as long-term temporaries, can be produced with little effort, quickly and inexpensively with the D1 pure. The result is precise and brilliant.

Surface



Restorations manufactured with the D1 pure are characterised by their very high surface quality and brilliance.

Quickness



Very high fitting accuracy, hardly any reworking is necessary. Restorations milled in DentCryl color may be inserted shortly into the patient's mouth.



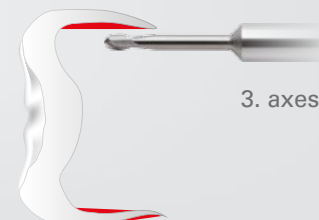
POLYAMIDE

The D1 pure is especially appropriate for manufacturing occlusal splints made of polyamide. Due to the 5-axis simultaneous machining with a rotary/swivel axis and the wide work angles of $\pm 25^\circ$, undercut milling with precise machining results is extremely successful.

Undercutting ability



Its excellent undercutting ability results in an immediate fit with just one "click".



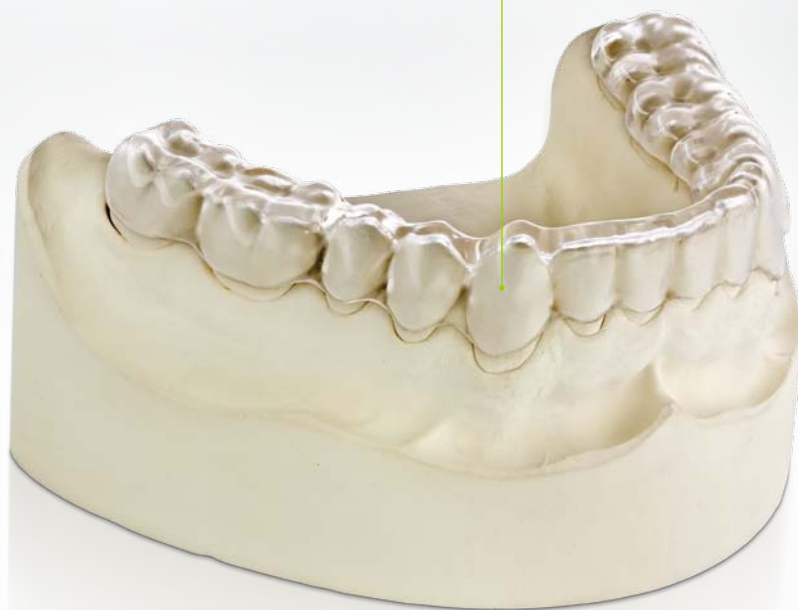
3. axes



4. axes



5. axes





DentalControl^{3rd}

DATRON

0051_ZrO2_Bridge_Dentallab.nc

Milling in progress

- 7 DATRON PMMA/Wax 0,5mm #007329D
- 6 DATRON PMMA/Wax 1,0mm #00783410
- 5 DATRON PMMA/Wax 2,0mm #00783420
- 4 DATRON PMMA/Wax 2,5mm #00783425
- 3 DATRON ZrO₂ 0,6mm #0073382D
- 2 DATRON ZrO₂ 1,0mm #00783210
- 1 DATRON ZrO₂ 2,0mm #00783220

X	-59.50
Y	+41.00
Z	+51.00
A	+30.00
B	00.00



Tool N°: 2

08:50

DATRON DentalControl^{one} MAKES IT EASY FOR YOU

Intuitive and easy to use

The D1 pure was designed specifically for dental work. That's why you have everything in control when using the DentalControl^{one} user interface: everything is as simple as possible. After just a short time, you master the process without having any prior CAD/CAM experience.

Clearly laid-out user interface

The clearly laid-out menu offers unequivocal command functions.

Intuitive operation

Pictograms allow the intuitive operation of all machine areas. Changing the milling tools is just as much part of this as cleaning the system or setting up milling blanks.

Everything at a glance

You always have the overview. Dental materials, milling tools and machining time are displayed continuously. Status lights provide information with regard to the activities taking place inside the D1 pure.

PLUG & PLAY

Save time for more productivity

The D1 pure creates new degrees of freedom, starting with the delivery of the system. Among the diverse requirements of dental labs are efficiency and productivity. You can easily commission your D1 pure by yourself.

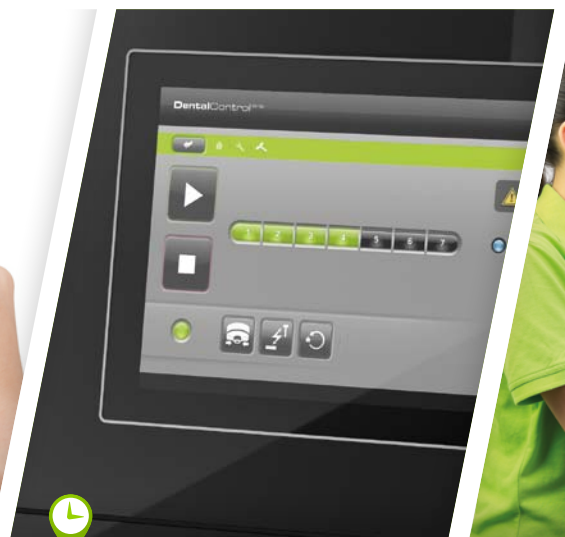
After just a short time your machine is ready for use and supports your lab in the reliable and independent production of high-quality dentures.



Delivery/Unpacking



Connecting



Setup/Calibration



Nesting

Milling





D1 pure Comfort and Individual include:

- + DATRON D1 pure 5-axis simultaneous milling machine
- + Suction unit with built-in Hepa Particle Filter for fine dust
- + CAM basic (Comfort) resp. CAM advanced (Individual)
- + Accessory case for setup, calibration and cleaning
- + Intuitive DATRON DentalControl^{one} machine control

PRECISELY MATCHED PACKS

Accessories included

In order to allow you to put the D1 pure into operation and start milling by yourself immediately after receiving it, we provide you with a complete system offered in two different expansion levels.

Together with your D1 pure you will receive an accessory case which includes the components necessary for commissioning and calibration.

In addition, DATRON offers specific D1 pure tools and DentDiscs (dental materials), available as a set or individually. Both can be easily acquired via the DATRON Online Shop.

www.datronshop.de

D1 pure Comfort

The ideal solution for CAD/CAM novices



An extensive range of pre-configured milling templates leads you safely and quickly to optimal results.

With the help of perfectly matched technology made up by machine, tools and materials we accompany you during the whole production process of your restoration and guarantee high-quality results.

D1 pure Individual

D1 pure Individual is targeted to the needs of experienced CAD/CAM users.



This variant allows you to customise the software according to your requirements, using materials and tools in a flexible manner and creating your own milling templates.



DATRON DENTAL CAM

The perfect fit for your personal requirements

In order to cater for the different CAM requirements in your lab, you benefit from flexibility and have freedom to determine your options. You can upgrade at any time from the Comfort to the Individual variant.

DATRON DentalCAM offers powerful benefits for a highly productive lab:

- + Superfast calculation times for your milling jobs
- + A great variety of milling templates for common indications included
- + Intuitive operation: simply start milling
- + 5-axis simultaneous milling with just the push of a button
- + Automatic collision control
- + Integrated DATRON milling tool list
- + Direct Service and Support by DATRON



FIGURES, DATA AND FACTS

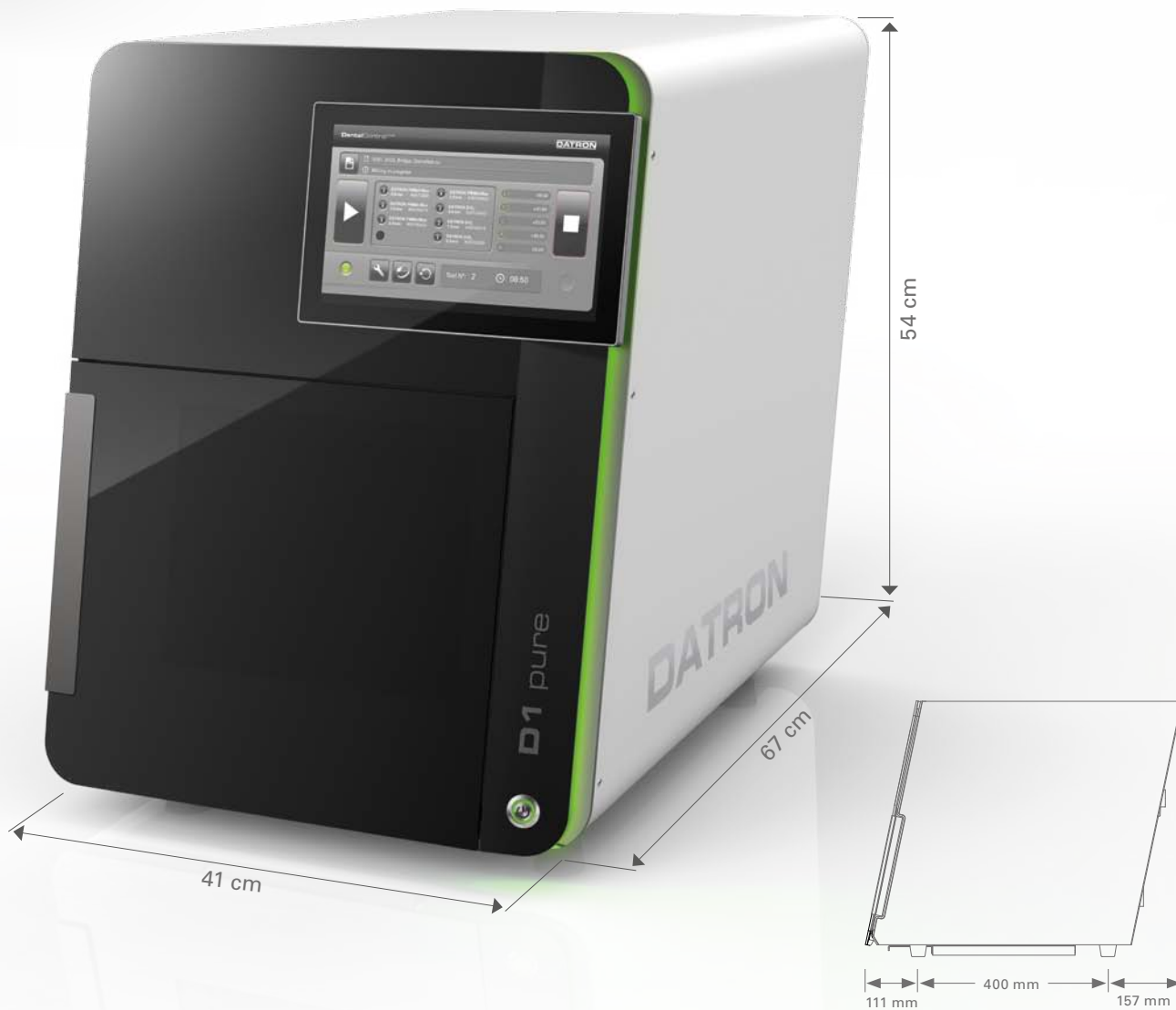
Maximum performance using the smallest space

Our compact and easy-to-use dental milling machine provides you with new opportunities for cost-effective work and sets new standards in the implementation of all dental applications made of soft materials.

Technical Specifications

- + Auto-calibration of the machine
- + Undercut milling with the rotary/swivel axis
- + Precise 450 W spindle
- + Automatic length measurement
- + Easy operation with built-in 9" touch screen
- + Compact desktop milling machine with a small footprint
- + Perfect extraction of material dusts
- + Easiest commissioning

Dimensions (W x H x D)	41 x 54 x 67 cm
Weight	about 70 kg
Spindle	450 W, 30,000 rpm,
Tool changer	up to 7 tools with a tactile tool-length sensor
Angle range of rotary/swivel axis	A and B axis: up to ± 25° (both sides)
Workpieces	Standard dental blanks with 10 mm shoulder; ø 98.5 mm
Air supply	Air pressure: 6.5–7.0 bar Air pressure at 200 l/min
Electricity supply	230 V Schuko plug
Item number	0A35001



MATERIALS AND END MILLS

Quality and precision from a single source

The extensive range of DATRON DentDiscs offers high quality milling blanks in the standard 98.5 mm size for all indications. DATRON DentDiscs achieve perfect results in combination with DATRON Dental milling tools.

DATRON DentDiscs are not locked by either RFID codes, chips or other security policies. They can be machined directly in all open CAD/CAM systems.

DATRON Dental milling tools may also be used in open CAD/CAM systems. Details are available in our DATRON Dental milling tools catalogue.

DATRON DentZirc – Zirconium oxide blanks

DATRON DentZirc zirconium oxide blanks distinguish themselves primarily by their high quality and process-reliability. We offer a wide range of top quality isostatic milling blanks in different colours.

With DATRON DentZirc HT, we offer highly translucent pre-shaded zirconium oxide blanks in 16 colours (similar to the Vita Classical colour scale) for top-aesthetic monolithic or ceramically veneered crowns and bridges.

DATRON DentZirc opaque is an extra strong, white zirconium oxide which is ideally suited for the production of abutments on adhesive base, as well as crowns and bridges.



Zirconium oxide end mills

Zirconium oxide is a highly abrasive material for which we offer special end mills with perfect matching flute geometry and high-quality coating.

In particular, the excellent durability of DATRON Dental milling tools is shown when machining zirconium oxide. This means greater precision and more efficiency for your lab.

- + Especially hard
- + Thermally highly stable
- + Very sharp cutting edges

Depending on the material we offer tool packs to achieve ideal results in the production of restorations for individual materials. You can order these end mills in different lot sizes (also available separately).

DATRON DentCryl – PMMA blanks

DATRON DentCryl is a PMMA consisting of a millable filler-free acrylic polymer (100% polymethyl methacrylate) used as a temporary or instead of modelling wax.

With DATRON DentCryl color, we offer milling blanks with high material homogeneity, ideal for the production of crowns and bridges as long-term temporaries.

DentCryl Cast is suitable for milling embeddable cast objects, for example, in the full casting technique or in the press ceramic technique.

DATRON DentWax – Wax blanks

DATRON DentWax is a synthetic milling wax, which is appropriate for the production of crown and bridge structures for further processing using the casting technique due to its high edge stability.

Due to its material properties, DentWax is appropriate for all open milling systems and burns without leaving residues. The 10 mm-thick DentWax blanks are perfectly suited to calibrate your DATRON D1 pure.



End mills for PMMA, wax and polyamide

Milling of PMMA, wax and polyamide has its own challenges. Special DATRON Dental ball nose end mills provide clean and burr-free processing of PMMA, wax and polyamide without adherences.

- + Polished, very sharp flutes
- + No adherences in the chip channel

Depending on the material we offer tool packs to achieve ideal results in the production of restorations for individual materials. You can order these end mills in different lot sizes (also available separately).

DATRON DentBite – Polyamid blanks

DATRON DentBite milling blanks are made 100% of polyamide. Due to its standard 98.5 mm size, DentBite can be used with all open milling systems and is in particular suitable for the production of orthodontic splints thanks to a certification under the Medical Products Act.

Milled splints offer the advantage of being thin yet very strong, compared to classic thermoformed splints.



SCANNERS AND FURNACES

Upstream and downstream process

You can integrate the D1 pure as a comfortable complete solution including a customized digital workflow into your lab or as an individual component into your existing CAD/CAM system via open interfaces.

Jointly with industry-leading technology partners, DATRON supports you on request in the development and implementation of the entire CAD / CAM process.

Depending on the technical requirements, an extensive range of dental scanners, CAD software solutions and

furnaces is available to choose from. Through the components' configurations and templates recommended by us, optimally matched to each other, you will bring more process reliability into your lab.

We are your competent contact partner, both today and in the future.



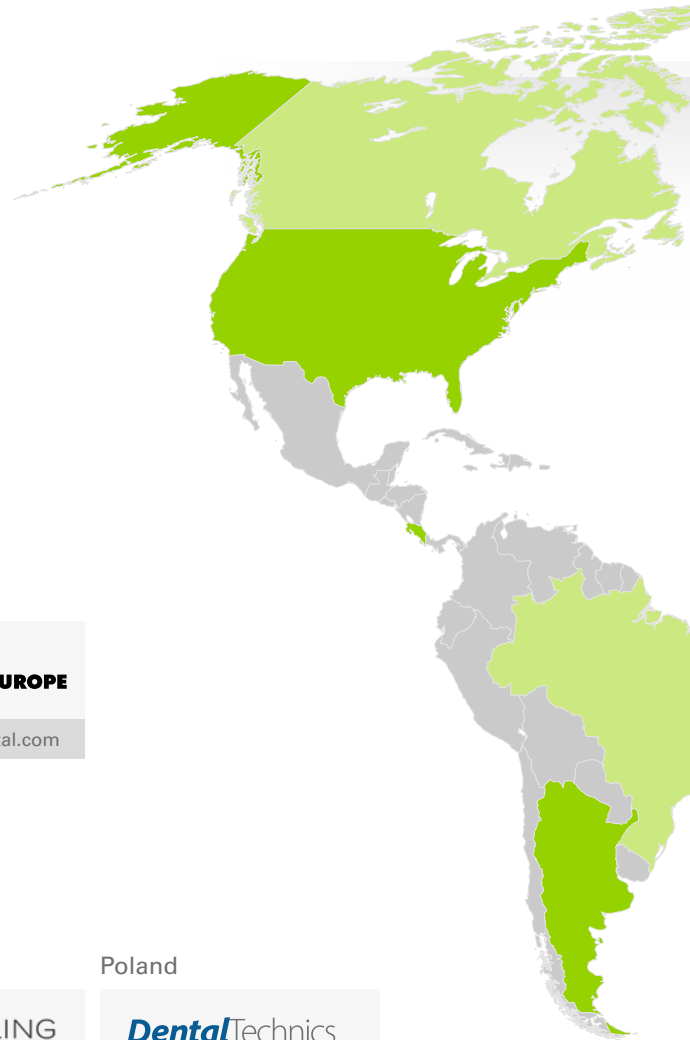
AFTER SALES SERVICE

You are in the best hands

To keep up the cost-effectiveness and productivity of your lab, you have different DATRON Service modules available to choose from. Depending on your requirements, we offer different service packs that you can order together with your D1 pure. You can also adjust them to your needs over time. For more information on our customized service packs for the D1 pure, please visit the DATRON "After Sales" area on our website.

Worldwide references – The World Mills with DATRON

Dental laboratories and milling centres in more than 20 countries rely to date on the high quality and precision of DATRON's dental CAD/CAM systems:



North America



www.whitecapinstitute.com



www.imilling.com

Europe

Germany



dentallabor-schollmeier.de



www.dt-cadcam.com



www.glidewell dental.com



www.kock.net



www.zahnwerk.eu

France



prothesiste-artdenteck.com

The Netherlands



www.blijdent.nl

Austria



www.s-m-t.at

Poland



www.dentaltechnics.pl

Sweden



www.expodent.se



www.teknodont.se

Switzerland



www.seiler-scheidegger.ch

Czech Republic



www.microdent.cz

Asia

China



少蝶齿科
WWW.SHADIE.CN

www.shadie.cn



Beijing 尤根 MasterDental
牙科

www.masterdental-bj.com



TRUE SHINE
齿研科技
TRUESHINELAB.COM

www.trueshinelab.com

Korea



(주)한진덴탈
www.hanjindental.com

www.hanjin-dental.com



WE DENTAL

www.wedental.com



(주)프리덴
Free Dental

dental-agencies.datron.com

Saudi Arabia



Smile Design
Dental Pro-450
المعمل الاحترافي

dental-agencies.datron.com

Russia



ORTOS

www.ortos.biz

UAE



DR. MUNIR SILWADI
DENTAL CENTER

dental-agencies.datron.com

www.D1pure.com

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Concerning this topic, please take into account our "Safety requirements when operating the machine". They can be requested from DATRON or viewed online at www.safety.datron.de.

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