



DATRON Dental End Mills, Dental Materials and Accessories

Solid carbide end mills for all dental CNC milling machines and materials



The Basis for Your Success: Our Staff

With more than 200 dedicated and motivated employees, we count over 10,000 worldwide tool customers. As one of the largest suppliers of tool technologies in many different areas, we are able to offer – in addition to our extensive standard product range – customerspecific special solutions. DATRON is your faithful companion throughout the whole process, starting with the initial consultation, going through the design stage and ending with the realization.

Our Success is Based on Solid Experience

DATRON has developed and supplied carbide tools of the highest quality level for 20 years. As manufacturers of high-quality CNC milling and engraving systems, we have always placed special emphasis in cutting technology. The technological design and quality of CNC tools determine to a large extent the efficiency and quality of CNC machining. We can offer you CNC tools especially optimised for high speed machining resulting from of our own development and tests, as well.

Quality at the Highest Level: The Key to Your Success



Due to the use of premium, ultra-fine grain carbides, you get particularly long durability by using DATRON tools. Further performance increase of the tools is achieved through the use of innovative coatings. Production of our tools on the most modern fully automatic grinding machines leads to consistent high quality and very good price/performance ratio. Continuous quality checks and tests on our in-house milling machines - also under extreme conditions - guarantee the exceptional quality and performance of DATRON tools.

DATRON Dental End Mills

- For all common dental milling machines and materials
- Highest durability and quality with good price/performance ratio
- Highest surface quality fo the indications milled
- Extensive range and 100% availability
- Special end mills and customised end mills
- All end mills are available separately
- Tiered discounts for milling tools in case of single-product orders
- 4% discount for authorised direct bank account debit More information on page 85 or call +49(0)6151-1419-406
- Replacement or returns within 6 months Replacements or returns only for unused tools in their original packaging. We only charge a restocking fee of 8% of the net value of the goods. Special and customised tools are excluded.
- Delivery in Germany on work days, usually within the next 24 hours at no extra charge if ordered until 2:00 pm
- Scheduled deliveries in Germany with an additional charge starting at € 25.00
- Represented worldwide

DATRON is represented worldwide!

DATRON sells CNC milling tools over 6 national and more than 20 international distributors worldwide. This allows DATRON to offer customers a fast delivery, sometimes within 24 hours.*



* Only for selected standard tools

Table of Contents

DATRON		2-5			
DATRON Table of Contents					
Compatibility - to (almost) all Dental Milling Systems					
DATRON Tool Technology					
DATRON Coatings					
DATRON List of Symbols and Abbreviations					
DATRON Customised Tools	3	15			
Your Specifications		16			
Your DATRON Dental Team	n – Who We Are!	17-19			
DATRON Milling Tools for 2	Zirconium Oxide	20-26			
	Ball nose end mills, double flute, uncoated	20-21			
	Ball nose end mills, double flute, diamond, coated	22-23			
	Ball nose end mills, double flute, DLC coated	24			
	Spherical end mills (Lollipop), double flute, diamond coated	25			
	End mills, double flute with sharp edge, uncoated	26			
DATRON Milling Tools for Cobalt-chrome/Titanium (Hard Milling)					
	Ball Nose End Mills, Conical, coated	27			
	Ball Nose End Mills, coated	28-29			
	Spherical End Mills (Lollipop), coated	30			
	End Mills double flute, coated, with Toric Cut	31			
	End Mills double flute, coated	32			
ATHON	End Mills four flutes, coated	33			
	End Mills with Edge Radius double flute, coated	34			
DATRON	End Mills with Edge Radius four flutes, coated	35			
	End Mills with Double Edge Radius four flutes, coated	36			
	Centre Drills, uncoated	37			
-404	Drills, coated	38			
	CVD End Mills, single flute, diamond, with sharp edge	39			

DATRON Milling Tools	for Soft Materials (PMMA, Wax)	40-43			
	Micro Ball Nose End Mills, double flute, uncoated	40			
	Ball Nose End Mills, single flute, polished, uncoated	41			
	Ball Nose End Mills, double flute, uncoated	42-43			
DATRON Milling Tools	for Composites (High Class)	44-46			
RON	Micro Ball Nose End Mills , double flute, coated	44			
	Ball Nose End Mills, double flute, coated	45			
DATRON	Ball Nose End Mills, four flutes, coated, (with/without Weldon clamping surface)	46			
DATRON Milling Tools	for DATRON D1 pure	47			
	Ball Nose End Mills for Zirconium Oxide and PMMA/Wax	47			
DATRON Milling Tools compatible with LAVA milling systems					
	Ball Nose End Mills, double flute, uncoated for Zirconium Oxide and PMMA	49			
	End Mills, double flute with sharp edges, uncoated, for Zirconium Oxide and PMMA	49			
DATRON Milling Tools	compatible with Charly Robot milling systems	50			
	Ball Nose End Mills, double flute, coated for Zirconium Oxide	50			
	Ball Nose End Mills, double flute, coated for Zirconium Oxide, with Edge Radius	50			
DATRON Milling Tools	compatible with Cercon Brain Expert milling systems	51-52			
	Ball Nose End Mills, double flute, uncoated for Zirconium Oxide	51			
	Ball Nose End Mills, single flute, uncoated for PMMA/Wax	52			
DATRON Milling Tools	compatible with (open) KAVO milling systems	53			
AMEIOR	Ball Nose End Mills, double flute, coated for Zirconium Oxide	53			
AMEIOR	Ball Nose End Mills, double flute, uncoated for PMMA/Wax	53			
ATRON	Ball Nose End Mills, double flute, coated for Composites (High Class)	53			

Table of Contents

ATRON Milling Tools	compatible with vhf milling systems	54-55				
*	Ball Nose End Mills, double flute, uncoated for Zirconium Oxide (S Models)					
*	Ball Nose End Mills, double flute, uncoated for Zirconium Oxide (K Models)	54				
- A	Ball Nose End Mills, double flute, coated for Zirconium Oxide (S Models)	55				
*	Ball Nose End Mills, double flute, coated for Zirconium Oxide (K Models)	55				
ATRON Milling Tools	compatible with Amann Girrbach milling systems	56				
	Ball Nose End Mills, double flute, coated/uncoated for Zirconium Oxide	56				
ATRON Milling Tools	compatible with Wieland milling systems (T1)	57-58				
	Ball Nose End Mills, double flute, uncoated for PMMA	57				
	Ball Nose End Mills, double flute, coated for Zirconium Oxide	57				
*	Ball Nose End Mills, double flute, coated/uncoated for Zirconium Oxide and PMMA/Wax	58				
ATRON DentDiscs		59-68				
	DATRON DentZirc opaque	60				
	DATRON DentZirc HT	60-62				
Contraction of the	DATRON DentTi4	63				
Contra Contra Con	DATRON DentTiAlloy	63				
	DATRON DentCoAlloy	64				
	DATRON DentModel	65				
	DATRON DentBite	65				
	DATRON DentWax	66				
	DATRON Calibration wax for D1 pure	66				
	DATRON DentCryl PMMA color	67				
	DATRON DentCryl PMMA cast	67				
	DATRON DentCryl PMMA fun	68				

DATRON Accessories an	d Consumable	69-77				
	Limit stop rings for systems with direct shank clamping	69				
	Insertion tools for limit stop rings					
LE U	Adapter collets					
	Polygon clamping systems HSK-E 25	72				
	Lubricants and additives	73				
	Accessories DATRON D5 Milling/Grinding Machine	74-75				
	Accessories DATRON D5 Machine Environment	76				
	Accessories DATRON – Cleaning and Maintenance	77				
DATRON D5 Mililng/Grin	nding Machine at a Glance	78				
DATRON SERVICE D5 M	illing/Grinding Machine (Machine Check-up/Maintenance)	79				
DATRON D1 pure		80				
DATRON D1 pure Accessories						
Parameter Calculations/Guidelines						
DATRON Tool Online Shop						
Fax Orders – Copy, Fill-in, Fax it!						
4% Discount for each Tool Order						
Your Notes						

DATRON milling tools can be used – among other – with the following systems. Users with systems listed below are already profiting from DATRON milling tools. Our customers' feedback attests to their high quality, durability and good price/performance ratio.

Should you be using a CAD/CAM system of a manufacturer not listed, please contact us to provide you with a customised solution.

3M Espe	LAVA CNC 240, 400, 500	Laserdenta	OpenMill4, OpenMill5
Amann Girrbach	Ceramill Motion 1, 2 Mikro	МВ	Cobra Mill
BZT Dental	Microdental ECO uznd HSC	Pou Chen Group	TDS (Turbo Dent System)
Charly Robot / Charly Dental	2U, 4U, Charly Dental CD04-5, CD05-5, CD 50 HM SD & ADC	Primacon	PFM 24 CC, PFM 24 MediMill, PFM 4024-5D, PFM 24 NGd
DATRON AG	DATRON Dental, D5, D1 pure	R+K CAD/CAM Technologie	Organical Multi, 5X, Desktop 8, Desktop 7C, Desktop 3, Desktop 1
Dental Concept Systems	DC5, DC1	RoboCAM	RoboMill 4, RoboMill 5
Degu Dent	Cercon Brain Expert	Röders	RXD4, RXD5
DMG	U10, U20, (HSC 20, 30, 55, 70, 75, 105)	Roland	MDX-40A, DWX-30, DWX-4, DWX-50
GF Agie Charmilles	Mikron HSM, MILL	vhf	K3, K4, S1, S2
Heiz	DentaCUT-300	Wieland	Zenotec 2100, 3020, 4030, 4820, 6200, 6400, T1, Select
Hint Els	Hi-Cut	Willemin Macodel	308B, 308S, 408B, 408MT, 408MTT, 408S2, 508MT, 508S
imes icore	Coritec 140i, 240i, 250i, 340i, 440i, 450i, 540i, 550i, 650i, 750i, 850i	Wissner	Gamma 202, 303, 605
KAVO	Everest (offene Variante)	Yenadent	D14, D15, D20, D30, D43, D40, DC40

Improve Quality and Reduce Costs -Tool Technology by DATRON







Quality and Precision "Made in Germany"

Twenty 20 years of experience in manufacturing milling tools on the most modern automatic grinding machines lead to the ever-constant precision and high quality of all DATRON milling tools. Only through permanent quality controls and tests can DATRON AG offer its steady competitive advantage.

Cost-effectiveness

Through the use of premium carbides in ultra-fine grain quality, tailored to the individual application fields, you achieve extra-high durability with DATRON milling tools while maintaining high quality standards.

DATRON Technology

The cutting geometry of each individual DATRON tool is the result of DATRON's long-standing expertise in the field of Hsc-milling (high-speed cutting). Continuous development and optimisation are your guarantee for obtaining cutting-edge technology from us.

Custom Tools Service

DATRON custom tools solve your milling issues! We manufacture custom carbide tools following your drawings or specifications according to the usual DATRON quality.

Diamond Coating

Superior hardness and chemical resistance

The unique properties of multi-layer diamond-coatings offer significant performance potentials which are ideal for machining highly abrasive materials such as zirconium oxide. The combination of a hardness of over 10,000 HV and a coefficient of friction of 0.15 guarantees long durability.



Coating Properties					
Material	Diamond				
Micro hardness	10,000 HV				
Coefficient of friction	0.15				
Max. operating temperature	700 °C				
Colour	Dark grey				

DLC Coating

High hardness and coating adhesion

With the DLC coating, an alternative for zirconium machining, characterised by high thermal stability and superior wear resistance, in addition to its high hardness and coating adhesion, has been developed. The particularly thin and smooth layer allows sharp cutting edges and thus guarantees best cutting quality. Very good adhesion and high density round up the material properties of this innovative coating.



Coating Properties					
Micro hardness	5,000 HV				
Coefficient of friction	0.15				
Max. operating temperature	500 °C				
Colour	Black rainbow				

BALINIT® X.CEED Coating

Hardness and high coating adhesion

Hardness, oxidation resistance and thermal stability of BALINIT[®] X.CEED were optimised for use in hard and high speed machining. Especially for very hard and difficult to machine materials such as CoCr and titanium.

Coating Properties					
Material	AITIN				
Micro hardness	3,300 HV				
Coefficient of friction	0.40				
Max. operating temperature	900 °C				
Colour	Blue-grey				



BALINIT® ALCRONA Coating

The all-rounder

Excellent wear resistance, thermal shock resistance and hot hardness: these are the these are the qualities that have been modified significantly in order to improve the proven BALINIT[®] ALCRONA coating still more. The performance profile of the new layer is increased significantly by optimising process parameters and modifying the layer structure. BALINIT[®] ALCRONA is the new all-rounder in machining.

Coating Properties					
Material	AICrN				
Micro hardness	3,200 HV				
Coefficient of friction	0.35 (dry against Steel)				
Max. operating temperature	1.100 °C				
Colour	Light grey				



List of Symbols & Abbreviations



Macinable materials

Number of flutes

2 flutes



Micro Grain Solid carbide





Spiral angle



Machining direction



xr

CVD

 \bigcup

Cooling (Wet/dry machining)

Spherical end mill (Lollipop)



Shank form

Ball

Ball nose

D1	Flute diameter
D2	Shank diameter
D3	Toric cut diameter
L1	Total length
L2	Flute length
L3	Usable length
α	Angle
R	Radius
СТ	Coating



Point angle

Limit Stop Ring

Sharp-edged flute

Diamond flute

Flute with edge radius

Your Custom End Mill -Copy, Enter Your Data, Send It!

Do you need a special tool? That's no problem at all at DATRON!

We manufacture special and custom tools from batch size 10 in no time.

Just send us a drawing or enter the desired features into the table below and send it by fax or by e-mail to us. We will let you have a custom quote. Of course you can also download the data sheet from **www.individualtool.datron.de**.

By fax: **+49 (0) 61 51 - 14 19 - 39** By e-mail: **tools@datron.de**



Description	Your custom data
End mill similar to item	
D1 Flute diameter	
D2 Shank diameter	
D3 Toric cut diamter	
L1 Total length	
L2 Flute length	
L3 Usable length	
R Radius	
CT Coating	

Notes:

For those of your custom milling tools not included in the standard range. Here you can enter all technical data, including price, and the corresponding item number to have these data on hand next time you need them.

Item No.	D1	D2	D3	L1	L2	L3	R	СТ	€
	(mm)								

Your DATRON Dental Team we introduce ouselves!

DATRON Dental Sales West





Senior Sales Manager Dental CAD/CAM Systems - West Phone: +49 (0) 61 51- 14 19 - 187 mike.vdwilligen@datron.de

DATRON Dental Sales DE/AT/CH





Area Sales Manager Dental CAD/CAM Systems - West Phone: +49 (0) 61 51 - 14 19 - 481 oliver.premke@datron.de



Dirk Iller 💳 🚟

Senior Sales Manager Dental CAD/CAM Systems -DE/AT/CH

Phone: +49 (0) 61 51-14 19-550 dirk.iller@datron.de





Area Sales Manager Dental CAD/CAM Systems -DE/AT/CH

Phone: +49 (0) 61 51 - 14 19 - 405 thomas.mauder@datron.de

DATRON Dental Sales East



Martin Göbel 💳 🎇

Senior Sales Manager Dental CAD/CAM Systems - East

Phone: +49 (0) 61 51 - 14 19 - 517 martin.goebel@datron.de





Area Sales Manager Dental CAD/CAM Systems - East

Phone: +49 (0) 61 51-14 19 - 175 christian.schuchmann@datron.de

Your DATRON Dental Team - we introduce ouselves!

DATRON Dental Applications Team



Pina Maginot 💻 🚟

Senior Manager Dental Applications and Training Phone.: +49 (0) 61 51-14 19 - 186 dental_application@datron.de





Dental Application and Training Phone: +49 (0) 61 51-14 19 - 186 dental_application@datron.de



Lisa Widuch 💻 🚟

Dental Application and Training Phone: +49 (0) 61 51-14 19 - 186 dental_application@datron.de

DATRON Dental Service Team



Johannes Hoeft
Senior Manager
Technical Support Dental
Phone: +49 (0) 61 51-14 19 - 153
service@datron.de





Technical Support Phone: +49 (0) 61 51-14 19 - 153 service@datron.de

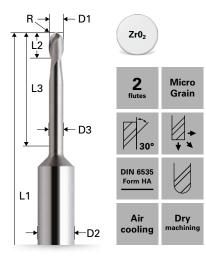


Kevin Kämmerer ■ ₩₩ Technical Support Phone: +49 (0) 61 51-14 19 - 153 service@datron.de



Turgay Seckin ESS Technical Support Phone: +49 (0) 61 51-14 19 - 153 service@datron.de

Ball Nose End Mill for Zirconium Oxide -Uncoated



End mill type:	Ball nose 180°				
Number of flutes:	Two				
Versions:	Short, Long				
Coating (CT):	None				
Features:	Extremely sharp flutes, as not post-treated				
Indications:	Caps, crowns (anatomic, anatomically reduced),				
	bridges, bars, individual abutments, screwed-				
	retained applications, 3D free-form surfaces				
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon,					

Röders, Wieland, Wissner and other systems

3 mm Shank, Short Neck

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	R (mm)
00684003	0.30	3.00	39.00	0.45	0.15
00684005	0.50	3.00	39.00	0.80	0.25
00684007	0.70	3.00	39.00	2.00	0.35

3 mm Shank, Short Neck

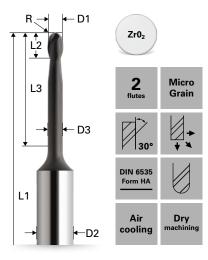
Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
00782004	0.40	3.00	0.35	39.00	0.60	2.00	0.20	
00782005	0.50	3.00	0.45	39.00	0.75	4.00	0.25	
00782005L	0.50	3.00	0.45	39.00	0.75	10.00	0.25	
00782006	0.60	3.00	0.55	39.00	0.90	4.00	0.30	
00782008	0.80	3.00	0.75	39.00	1.20	6.00	0.40	
00782010	1.00	3.00	0.95	39.00	1.50	6.00	0.50	
00782011	1.00	3.00	0.95	39.00	1.50	9.00	0.50	
00782012	1.20	3.00	1.15	39.00	1.80	9.00	0.60	
00782015	1.50	3.00	1.45	39.00	2.20	9.00	0.75	
00782020	2.00	3.00	1.95	39.00	3.00	12.00	1.00	

3 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
00782106	0.60	3.00	0.55	48.00	2.50	10.00	0.30	
00782108	0.80	3.00	0.75	48.00	3.00	12.00	0.40	
0078211K	1.00	3.00	0.95	48.00	4.00	14.00	0.50	
00782110	1.00	3.00	0.95	48.00	4.00	18.00	0.50	
00782115	1.50	3.00	1.45	48.00	4.00	18.00	0.75	
00782120	2.00	3.00	1.95	48.00	4.50	22.00	1.00	
00782125	2.50	3.00	2.40	48.00	6.00	20.00	1.25	
00782130	3.00	3.00	2.90	48.00	6.00	22.00	1.50	

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)
00782706	0.60	6.00	0.55	50.00	2.50	10.00	0.30
00782708	0.80	6.00	0.75	50.00	3.00	12.00	0.40
00782710	1.00	6.00	0.95	50.00	4.00	18.00	0.50
00782715	1.50	6.00	1.45	50.00	4.00	18.00	0.75
00782720	2.00	6.00	1.95	50.00	4.50	22.00	1.00
00782725	2.50	6.00	2.40	50.00	5.00	25.00	1.25
00782730	3.00	6.00	2.80	50.00	6.00	25.00	1.50

Ball Nose End Mills for Zirconium Oxide -Diamond Coated



End mill type:	Ball nose 180°					
Number of flutes:	Two					
Versions:	Long, Xtra Long					
Coating (CT):	Diamond					
Features:	Extremely high durability due to its diamond coating					
Indications:	Caps, crowns (anatomic, anatomically reduced),					
	bridges, bars, individual abutments, screwed-					
	retained applications, 3D free-form surfaces					
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon,						

Röders, Roland, Wieland, Wissner and other systems

3 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782206	0.60	3.00	0.55	48.00	2.50	10.00	0.30	x
00782208	0.80	3.00	0.75	48.00	3.00	12.00	0.40	x
00782210	1.00	3.00	0.95	48.00	4.00	16.00	0.50	x
00782215	1.50	3.00	1.45	48.00	4.00	18.00	0.75	x
00782220	2.00	3.00	1.95	48.00	4.50	20.00	1.00	x
00782225	2.50	3.00	2.40	48.00	4.50	22.00	1.25	x
00782230	3.00	3.00	2.90	48.00	6.00	25.00	1.50	x

3 mm Shank, Long Neck, with Conical Outlet and Differentiated Spin

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
0073380F	0.50	3.00	0.45	48.00	2.50			
0073380G	1.00	3.00	0.95	50.00	1.00	12.20	0.50	×
0073380H	1.50	3.00	1.40	50.00	1.55	18.20	0.75	x
00733801	3.00	3.00	2.85	50.00	6.65	17.15	1.50	x

3 mm Shank, Xtra Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
0078221L	1.00	3.00	0.95	48.00	4.00	18.00	0.50	x
0078222L	2.00	3.00	1.95	48.00	4.50	25.00	1.00	x
0078225L	2.50	3.00	2.40	48.00	4.50	25.00	1.25	x

4 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00783206	0.60	4.00	0.55	48.00	2.50	10.00	0.30	x
00783210	1.00	4.00	0.95	48.00	4.00	18.00	0.50	x
00783220	2.00	4.00	1.95	48.00	4.50	20.00	1.00	x
00783225	2.50	4.00	2.40	48.00	5.00	22.00	1.25	x

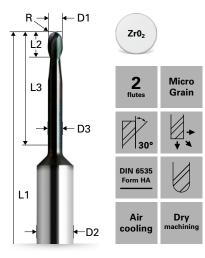
6 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782806	0.60	6.00	0.55	50.00	2.50	10.00	0.30	x
00782808	0.80	6.00	0.75	50.00	3.00	12.00	0.40	x
00782810	1.00	6.00	0.95	50.00	4.00	16.00	0.50	x
00782815	1.50	6.00	1.45	50.00	4.00	18.00	0.75	×
00782820	2.00	6.00	1.95	50.00	4.50	20.00	1.00	×
00782825	2.50	6.00	2.40	50.00	4.50	22.00	1.25	x
00782830	3.00	6.00	2.80	50.00	6.00	25.00	1.50	x

6 mm Shank, Xtra Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
0078281L	1.00	6.00	0.95	50.00	4.00	18.00	0.50	×
0078282L	2.00	6.00	1.95	50.00	4.50	25.00	1.00	x
0078285L	2.50	6.00	2.40	50.00	4.50	25.00	1.25	×

Ball Nose End Mills for Zirconium Oxide -**DLC** coated



Ball nose 180°					
īwo					
ong					
CLD					
/ery sharp flutes and high durability					
Caps, crowns (anatomic, anatomically reduced),					
oridges, bars, individual abutments, screwed-retai-					
ned applications, 3D free-form surfaces					
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon,					

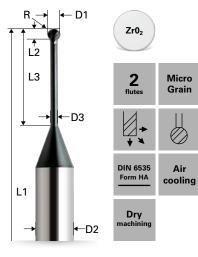
Röders, Wieland, Wissner and other systems

3 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00786603	0.30	3.00	0.28	48.00	0.60	2.50	0.15	x
00786606	0.60	3.00	0.55	48.00	2.50	10.00	0.30	x
00786608	0.80	3.00	0.75	48.00	3.00	12.00	0.40	x
00786610	1.00	3.00	0.95	48.00	4.00	16.00	0.50	x
00786615	1.50	3.00	1.45	48.00	4.00	18.00	0.75	x
00786620	2.00	3.00	1.95	48.00	4.50	20.00	1.00	x
00786625	2.50	3.00	2.40	48.00	4.50	22.00	1.25	x
00786630	3.00	3.00	2.90	48.00	6.00	25.00	1.50	x

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	ст
00786703	0.30	6.00	0.28	50.00	0.60	2.50	0.15	x
00786706	0.60	6.00	0.55	50.00	2.50	10.00	0.30	x
00786708	0.80	6.00	0.75	50.00	3.00	12.00	0.40	x
00786710	1.00	6.00	0.95	50.00	4.00	16.00	0.50	x
00786715	1.50	6.00	1.45	50.00	4.00	18.00	0.75	x
00786720	2.00	6.00	1.95	50.00	4.50	20.00	1.00	x
00786725	2.50	6.00	2.40	50.00	4.50	22.00	1.25	x
00786730	3.00	6.00	2.90	50.00	6.00	25.00	1.50	×

Spherical End Mills (Lollipop) for Zirconium Oxide -Diamond coated



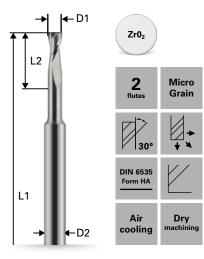
End mill type:	Spherical 270° (Lollipop)				
Number of flutes:	Two				
Versions:	Long				
Coating (CT):	Diamond				
Features:	High machining options for undercuts, without hav-				
	ing to tilt the workpiece				
Indications:	Caps, crowns (anatomic, undercut machining, outer				
	contours, inner contours)				
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon,					
Röders, Wieland, Wissner and other systems					

3 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L3 (mm)	R (mm)	Sphere (degrees)	ст
00784310	2.00	3.00	1.10	48.00	14.00	1.00	270	x

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L3 (mm)	R (mm)	Sphere (degrees)	ст
00784610	2.00	6.00	1.10	50.00	14.00	1.00	270	x

End Mills for Zirconium Oxide -Uncoated



End mill type:	End mill with sharp edge				
Number of flutes:	Тwo				
Versions:	Short				
Coating (CT):	None				
Features:	Very sharp flutes, precise plane face machining, ideal for screw contact surfaces and/or contour machining				
Indications:	Bars, individual abutments, screwed-retained applications, interface connections (inside/outside), screw contact surfaces				
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and other systems					

3 mm Shank, Short Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)
00781005	0.50	3.00	0.45	39.00	0.75	4.00
00781006	0.60	3.00	0.55	39.00	0.90	4.00
00781007	0.70	3.00	0.65	39.00	1.05	4.00
00781008	0.80	3.00	0.75	39.00	1.20	6.00
00781009	0.90	3.00	0.85	39.00	1.30	6.00
00781010	1.00	3.00	0.95	39.00	1.50	6.00
00781011	1.00	3.00	0.95	39.00	1.50	9.00
00781012	1.20	3.00	1.15	39.00	1.80	9.00
00781015	1.50	3.00	1.45	39.00	2.20	9.00
00781020	2.00	3.00	1.95	39.00	3.00	12.00

Zr0₂

Ball Nose End Mills, Conical, for Cobalt-Chrome/Titanium -





÷. 34

End mill type:	Ball nose 180° bevelled pointed				
Number of flutes: Versions: Coating (CT):	Two Short BALINIT [®] X.CEED				
Features:	Voluminous and robust point with short effective length, therefore reduced risk of head fracture				
Indications:	Surfaces (fissures), edge machining, interdental spaces, internal machining (inside cavities)				
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and other systems					

3 mm Shank

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	R (mm)	СТ
0078236K	0.60	3.00	48.00	1.20	0.30	x
0078238K	0.80	3.00	48.00	1.70	0.40	x
0078231K	1.00	3.00	48.00	1.90	0.50	x

6 mm Shank

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	R (mm)	СТ
0078266K	0.60	6.00	50.00	1.20	0.30	x
0078268K	0.80	6.00	50.00	1.70	0.40	x
0078261K	1.00	6.00	50.00	1.90	0.50	x

Ball Nose End Mills for Cobalt-Chrome/Titanium -Coated





End mill type:	Ball nose 180°			
Number of flutes:	Two			
Versions:	Short, Long, Xtra Long			
Coating (CT):	BALINIT [®] X.CEED			
Features:	High coating hardness especially for hardened and difficult to machine materials			
Indications:	Caps, crowns (anatomic, anatomically reduced), bridges, bars, individual abutments, screwed-retai- ned applications, 3D free-form surfaces			
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Roland, Wieland, Wissner and other systems				

3 mm Shank, Short Neck

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	R (mm)	СТ
00684004	0.40	3.00	39.00	1.00	0.20	x
00684010	0.50	3.00	39.00	1.50	0.25	x
00684006	0.60	3.00	39.00	1.80	0.30	x

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782303	0.30	3.00	0.28	39.00	0.60	2.50	0.15	х
00782305	0.50	3.00	0.45	39.00	0.75	4.00	0.25	х
00782308	0.80	3.00	0.75	39.00	3.50	8.00	0.40	х
00782310	1.00	3.00	0.95	39.00	3.00	8.00	0.50	х
00782315	1.50	3.00	1.45	39.00	4.00	12.00	0.75	х
00782320	2.00	3.00	1.90	39.00	3.50	14.00	1.00	х
00782325	2.50	3.00	2.40	39.00	4.50	15.00	1.25	х
00782330	3.00	3.00	2.80	39.00	5.50	15.00	1.50	x



4 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	ст
00784408	0.80	4.00	0.75	50.00	3.00	10.00	0.40	x
00784410	1.00	4.00	0.95	50.00	3.50	12.00	0.50	x
00784415	1.50	4.00	1.45	50.00	4.00	14.00	0.75	x
00784420	2.00	4.00	1.90	50.00	4.50	16.00	1.00	x
00784425	2.50	4.00	2.35	50.00	5.00	18.00	1.25	x
00784430	3.00	4.00	2.80	50.00	5.50	22.00	1.50	x

6 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782603	0.30	6.00	0.28	50.00	0.60	2.50	0.15	x
00782608	0.80	6.00	0.75	50.00	3.50	8.00	0.40	x
00782610	1.00	6.00	0.95	50.00	3.00	8.00	0.50	х
00782611	1.00	6.00	0.95	50.00	3.00	10.00	0.50	х
00782615	1.50	6.00	1.45	50.00	4.00	12.00	0.75	х
00782620	2.00	6.00	1.90	50.00	3.50	12.00	1.00	x
00782625	2.50	6.00	2.40	50.00	4.50	14.00	1.25	x
00782630	3.00	6.00	2.80	50.00	5.50	15.00	1.50	x
00782630L	3.00	6.00	2.80	50.00	5.50	17.00	1.50	х

6 mm Shank, Xtra Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00783610	1.00	6.00	0.95	50.00	3.00	12.00	0.50	x
00783615	1.50	6.00	1.45	50.00	4.00	16.00	0.75	x
00783620	2.00	6.00	1.95	50.00	3.50	16.00	1.00	x
00783625	2.50	6.00	2.40	50.00	4.50	18.00	1.25	x
00783630	3.00	6.00	2.95	50.00	5.50	22.00	1.50	x

Spherical End Mills (Lollipop) for Cobalt-Chrome/Titanium -Coated





End mill type:	Spherical 270° (Lollipop)
Number of flutes:	Two
Versions:	Long
Coating (CT):	BALINIT [®] X.CEED
Features:	High machining options for undercuts, without hav- ing to tilt the workpiece
Indications:	Undercut machining, outer contours, inner contours
	imes-icore, Laserdenta, Mikron, MB, Primacon, issner and other systems

3 mm Shank

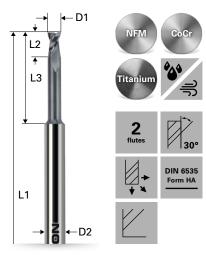
Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L3 (mm)	R (mm)	Sphere (degrees)	СТ
00785310	2.00	3.00	1.10	48.00	14.00	1.00	270	x

6 mm Shank,

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L3 (mm)	R (mm)	Sphere (degrees)	СТ
00785610	2.00	6.00	1.10	50.00	14.00	1.00	270	х

End Mills for Cobalt-Chrome/Titanium -Coated, with Toric Cut



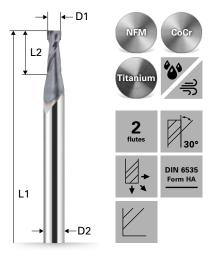


End mill type:	End mill with sharp edges				
Number of flutes:	Two				
Versions:	Long				
Coating (CT):	BALINIT [®] X.CEED				
Features:	Very sharp flutes, precise plane face machining, ideal for screw contact surfaces and/or contour machining				
Indications:	Bars, individual abutments, screwed-retained appli- cations, interface connections (inside/outside), screw contact surfaces				
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and other systems .					

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	ст
0078004L	0.40	3.00	48.00	0.50	4.50	х
0078005L	0.50	3.00	48.00	0.60	5.00	х
0078008L	0.80	3.00	48.00	1.00	8.00	x
0078010L	1.00	3.00	48.00	1.20	15.00	x
0078012L	1.20	3.00	48.00	1.40	15.00	x
0078015L	1.50	3.00	48.00	1.80	16.00	х
0078018L	1.80	3.00	48.00	2.20	16.00	x
0078020L	2.00	3.00	48.00	2.40	16.00	x
0078025L	2.50	3.00	48.00	3.00	18.00	x

End Mills for Cobalt-Chrome/Titanium -Coated





End mill type:	End mill with sharp edges
Number of flutes:	Two
Versions:	Short
Coating (CT):	BALINIT [®] X.CEED
Features:	Very sharp flutes, precise plane face machining, ideal
Indications:	for screw contact surfaces and/or contour machining Bars, individual abutments, screwed-retained appli- cations, interface connections (inside/outside), screw contact surfaces
	imes-icore, Laserdenta, Mikron, MB, Primacon, 'issner and other systems

3 mm Shank, Short Neck

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	СТ
0078009K	0.90	3.00	38.00	1.80	×
0078010K	1.00	3.00	38.00	2.00	x
0078011K	1.10	3.00	38.00	2.20	x
0078012K	1.20	3.00	38.00	2.40	x
0078013K	1.30	3.00	38.00	2.60	x
0078014K	1.40	3.00	38.00	2.80	x
0078015K	1.50	3.00	38.00	3.00	x
0078016K	1.60	3.00	38.00	3.20	x
0078017K	1.70	3.00	38.00	3.40	х
0078018K	1.80	3.00	38.00	3.60	x
0078019K	1.90	3.00	38.00	4.00	x
0078020K	2.00	3.00	38.00	6.00	x
0078025K	2.50	3.00	38.00	7.00	x

End Mills for Cobalt-Chrome/Titanium with Weldon clamping surface (HB) - Coated





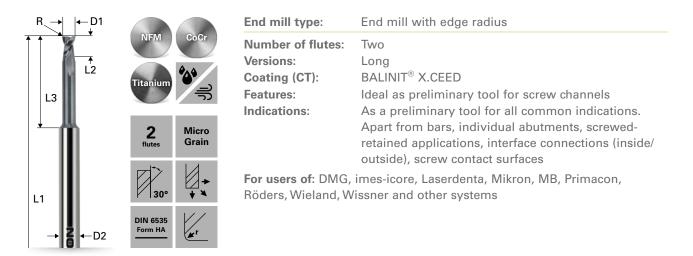
End mill type:	End mill with sharp edges				
Number of flutes:	Four				
Versions:	Long				
Coating (CT):	BALINIT [®] ALCRONA				
Features:	Sharp flutes, precise plane face machining, ideal for screw contact surfaces and/or contour machining				
Indications:	Bars, interface connections, contact surfaces				
For users of : DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and other systems					

6 mm Shank, Short Neck

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	СТ
0078402	2.00	6.00	50.00	7.00	х
00784025	2.50	6.00	50.00	8.00	x
0078403	3.00	6.00	57.00	8.00	x
00784035	3.50	6.00	57.00	10.00	x
0078404	4.00	6.00	57.00	11.00	x

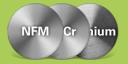
End Mills with Edge Radius for Cobalt-Chrome/Titanium -Coated

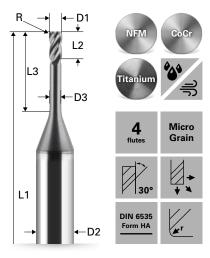




Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
0078010R	1.00	3.00	48.00	1.20	15.00	0.10	x
0078012R	1.20	3.00	48.00	1.40	15.00	0.10	x
0078015R	1.50	3.00	48.00	1.80	16.00	0.15	x
0078018R	1.80	3.00	48.00	2.20	16.00	0.18	x
0078020R	2.00	3.00	48.00	2.40	16.00	0.20	x
0078025R	2.50	3.00	48.00	3.00	18.00	0.25	x

End Mills for Cobalt-Chrome/Titanium -Coated



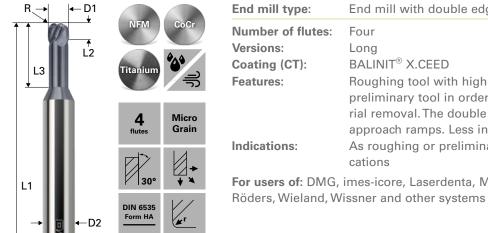


End mill type:	End mill with edge radius				
Number of flutes:	Four				
Versions:	Long				
Coating (CT):	BALINIT [®] X.CEED				
Features:	Roughing tool with high chip volume, ideal as preliminary tool in order to achieve high material removal				
Indications:	As roughing or preliminary tool for all common indications				
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and other systems					

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	ст
0078620	2.00	6.00	1.80	50.00	4.00	12.00	0.20	x
0078620A	2.00	6.00	1.80	50.00	4.00	16.00	0.20	x
0078623	3.00	6.00	2.70	50.00	4.00	14.00	0.30	x
0078623A	3.00	6.00	2.70	50.00	4.00	18.00	0.30	x
0078624	4.00	6.00	3.70	50.00	5.00	16.00	0.40	x

End Mills with Double Edge Radius for Cobalt-Chrome/Titanium -





d mill type:	End mill with double edge radius				
mber of flutes:	Four				
rsions:	Long				
ating (CT):	BALINIT [®] X.CEED				
atures:	Roughing tool with high chip volume, ideal as preliminary tool in order to achieve high mate- rial removal. The double edge radius allows higher approach ramps. Less initial attrition				
lications:	As roughing or preliminary tool for all common indi- cations				
r users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon,					

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00786203	3.00	6.00	2.80	50.00	3.00	12.00	0.60	x
00786203A	3.00	6.00	2.80	50.00	3.00	16.00	0.60	x
00786204	4.00	6.00	3.80	50.00	4.00	14.00	0.80	x
00786204A	4.00	6.00	3.80	50.00	4.00	16.00	0.80	x

Centre Drills -Uncoated



	→ ←	- D1			End mill type:	Centre drills 140°
1	1		NFM Z	r0 ₂	Number of flutes:	Two
					Versions:	Short
			PMMA Com	posites	Coating (CT):	None
	11				Features:	Preliminary centring tool for drilling process, exclud- ing shifting of the drill
	- 11		2 ™	icro	Indications:	All work requiring precise drilling
	- 11		flutes G	rain	For users of: All mil	ling systems admitting 3 mm Shanks.
L	1		30°			
			Form HA	40°		

3 mm Shank

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	
0078701	1.00	3.00	48.00	
0078702	2.00	3.00	48.00	
0078703	3.00	3.00	48.00	

Drills for Cobalt-Chrome/Titanium -

30°

155



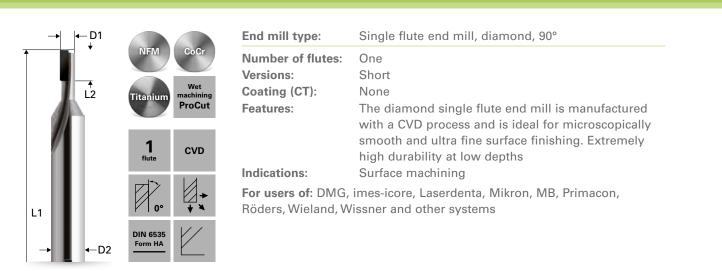


	End mill type:	Drills 155°
CoCr	Number of flutes: Versions: Coating (CT):	Two Long BALINIT [®] X.CEED
Micro Grain	Features:	High drill length, allows drilling through without need to turn the tool; alignment differences are therefore excluded All work requiring precise drilling
•	For users of: All mil strategy or program	lling systems admitting 3 mm Shanks and drilling

3 mm Shank

5 mm onam					
Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	СТ
0078708	0.80	3.00	48.00	7.00	x
0078709	0.90	3.00	48.00	9.00	x
0078710	1.00	3.00	48.00	11.00	x
0078711	1.10	3.00	48.00	11.00	x
0078712	1.20	3.00	48.00	13.00	х
00787125	1.25	3.00	48.00	13.00	x
0078713	1.30	3.00	48.00	13.00	x
0078714	1.40	3.00	48.00	15.00	x
0078715	1.50	3.00	48.00	16.00	x
0078716	1.60	3.00	48.00	16.00	x
0078717	1.70	3.00	48.00	16.00	x
0078718	1.80	3.00	48.00	17.00	x
0078719	1.90	3.00	48.00	17.00	x
0078720	2.00	3.00	48.00	20.00	x
0078722	2.25	3.00	48.00	20.00	x
0078725	2.50	3.00	48.00	20.00	x
0078727	2.75	3.00	48.00	20.00	×
0078730	3.00	3.00	48.00	20.00	x

CVD Diamond Single Flute End Mills for Cobalt-Chrome/Titanium



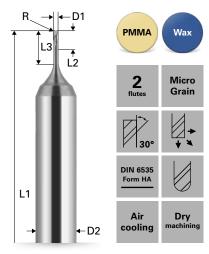
6 mm Shank

Item No.	D1	D2	L1	L2
	(mm)	(mm)	(mm)	(mm)
00781203	3.00	6.00	50.00	5.00

NFM Cr nium

Micro Ball Nose End Mills for PMMA/Wax - Uncoated





End mill type:	Micro ball nose 180°
Number of flutes:	Two
Versions:	Short
Coating (CT):	None
Features:	Stable micro-machining without adhesions in chip removal channels with low depth
Indications:	Copings, crowns (anatomic, anatomically reduced), fissures, 3D free-form surfaces
	imes-icore, Laserdenta, Mikron, MB, Primacon, issner and other systems

3 mm Shank, Short Neck

	,							
ltem No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
00782004	0.40	3.00	0.35	39.00	0.60	2.00	0.20	
00782005	0.50	3.00	0.45	39.00	0.75	4.00	0.25	
00782005L	0.50	3.00	0.45	39.00	0.75	10.00	0.25	
00782006	0.60	3.00	0.55	39.00	0.90	4.00	0.30	
00782008	0.80	3.00	0.75	39.00	1.20	6.00	0.40	
00782010	1.00	3.00	0.95	39.00	1.50	6.00	0.50	
00782011	1.00	3.00	0.95	39.00	1.50	9.00	0.50	
00782012	1.20	3.00	1.15	39.00	1.80	9.00	0.60	
00782015	1.50	3.00	1.45	39.00	2.20	9.00	0.75	
00782020	2.00	3.00	1.95	39.00	3.00	12.00	1.00	

Ball nose end mill for PMMA/Wax -





End mill type:	Ball nose 180°
Number of flutes:	One
Versions:	Long
Coating (CT):	None
Features:	Polished extremely sharp flutes, burr-free and clean machining without adhesions in chip removal chan- nels
Indications:	Copings, crowns (anatomic, anatomically reduced), surface machining (fissures), short-term temporary dentures, 3D free-form surfaces
	imes-icore, Laserdenta, Mikron, MB, Primacon, lissner and other systems

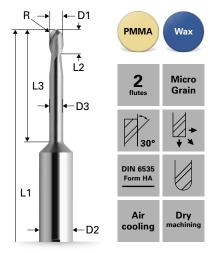
3 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
0068181E	1.00	3.00	0.95	50.00	4.00	12.00	0.50	
0068182E	2.00	3.00	1.95	50.00	6.00	20.00	1.00	
0068183E	3.00	3.00	2.95	50.00	8.00	21.00	1.50	

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)
0068191E	1.00	6.00	0.95	50.00	4.00	12.00	0.50
0068191S	1.50	6.00	1.45	50.00	5.00	12.00	0.75
0068192E	2.00	6.00	1.95	50.00	6.00	20.00	1.00
0068192S	2.50	6.00	2.45	50.00	7.00	20.00	1.25
0068193E	3.00	6.00	2.95	50.00	8.00	21.00	1.50
0068194E	4.00	6.00	3.95	50.00	10.00	21.00	2.00
0068195E	5.00	6.00	4.95	50.00	12.00	22.00	2.50
0068196E	6.00	6.00	5.95	50.00	14.00	22.00	3.00

Ball Nose End Mills for PMMA/Wax - Uncoated





End mill type:	Ball nose 180°
Number of flutes:	Two
Versions:	Long
Coating (CT):	None
Features:	Polished flutes, burr-free and clean machining wit- hout adhesions in chip removal channels
Indications:	Copings, crowns (anatomic, anatomically reduced), surface machining (fissures), short-term temporary dentures, 3D free-form surfaces
	imes-icore, Laserdenta, Mikron, MB, Primacon, eland, Wissner and other systems

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
00782406	0.60	3.00	0.55	48.00	2.50	10.00	0.30	
00782408	0.80	3.00	0.75	48.00	3.50	12.00	0.40	
00782410	1.00	3.00	0.95	48.00	4.00	16.00	0.50	
00782415	1.50	3.00	1.45	48.00	4.50	18.00	0.75	
00782420	2.00	3.00	1.95	48.00	5.50	20.00	1.00	
00782425	2.50	3.00	2.40	48.00	6.00	25.00	1.25	



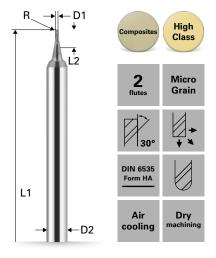
4 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
00783406	0.60	4.00	0.55	48.00	2.50	10.00	0.30	
00783410	1.00	4.00	0.95	48.00	4.00	18.00	0.50	
00783420	2.00	4.00	1.95	48.00	5.50	20.00	1.00	
00783425	2.50	4.00	2.40	48.00	6.00	22.00	1.25	

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
00782906	0.60	6.00	0.55	50.00	2.50	10.00	0.30	
00782908	0.80	6.00	0.75	50.00	3.00	12.00	0.40	
00782910	1.00	6.00	0.95	50.00	4.00	16.00	0.50	
00782915	1.50	6.00	1.45	50.00	4.00	18.00	0.75	
00782920	2.00	6.00	1.95	50.00	4.50	20.00	1.00	
00782925	2.50	6.00	2.40	50.00	5.00	25.00	1.25	
00782930	3.00	6.00	2.90	50.00	6.00	25.00	1.50	

Micro Ball Nose End Mills for Composites (High-Class) -Coated





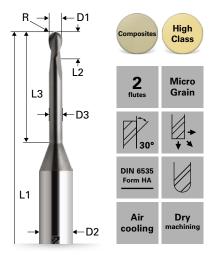
End mill type:	Micro ball nose 180°				
Number of flutes:	Two				
Versions:	Short				
Coating (CT):	BALINIT [®] ALCRONA				
Features:	Robust design due to short flutes				
Indications:	Fissures, 3D free-form surfaces				
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and other systems					

3 mm Shank, Short Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	ст
00684004	0.40	3.00		39.00	1.20		0.20	×
00684005	0.50	3.00		39.00	0.80		0.25	×
00684006	0.60	3.00		39.00	1.80		0.30	×
00684008	0.80	3.00		39.00	2.40		0.40	x

Ball Nose End Mills for Composites (High-Class) -Coated





End mill type:	Ball nose 180°
Number of flutes:	Two
Versions:	Long
Coating (CT):	BALINIT [®] ALCRONA
Features:	High durability with strongly abrasive materials
Indications:	Copings, crowns (anatomic), bridges, bars, individual
	Abutments, screwed-retained applications, short- and
	long-term temporary dentures, 3D free-form surfaces
	in a lange la sudante Milana MD Diserre

For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and other systems

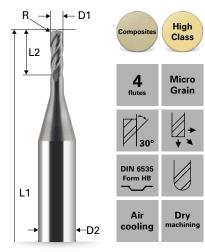
3 mm Shank, Long Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782508	0.80	3.00	0.75	43.00	3.50	12.00	0.40	x
00782510	1.00	3.00	0.95	43.00	4.00	16.00	0.50	x
00782515	1.50	3.00	1.45	48.00	4.50	16.00	0.75	x
00782520	2.00	3.00	1.95	48.00	5.50	18.00	1.00	x
00782525	2.50	3.00	2.40	43.00	6.00	20.00	1.25	x
00782530	3.00	3.00	2.80	43.00	6.00	25.00	1.50	x

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	ст
00783008	0.80	6.00	0.75	50.00	3.50	12.00	0.40	x
00783010	1.00	6.00	0.95	50.00	4.00	14.00	0.50	x
00783015	1.50	6.00	1.45	50.00	4.50	16.00	0.75	x
00783020	2.00	6.00	1.95	50.00	5.50	18.00	1.00	x
00783025	2.50	6.00	2.40	50.00	4.50	20.00	1.25	x
00783030	3.00	6.00	2.80	50.00	6.00	22.00	1.50	x

Ball Nose End Mills for Composites with Weldon Clamping Surface (HB) - Coated

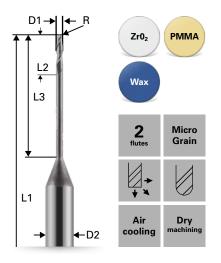




End mill type:	Ball nose 180°				
Number of flutes: Versions: Coating (CT):	Four Long, Xtra Long BALINIT® ALCRONA				
Features:	Roughing tool with high material removal when wor- king with highly abrasive materials				
Indications:	As roughing or preliminary tool for all common indi- cations, 3D free-form surfaces				
For users of: DMG, imes-icore, Laserdenta, Mikron, MB, Primacon, Röders, Wieland, Wissner and other systems					

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	R (mm)	ст
0078542	2.00	6.00	57.00	6.00	1.00	x
0078543	3.00	6.00	57.00	8.00	1.50	x
0078543A	3.00	6.00	57.00	20.00	1.50	x
0078543B	3.00	6.00	50.00	20.00	1.50	x
0078544	4.00	6.00	57.00	11.00	2.00	x
0078544A	4.00	6.00	57.00	20.00	2.00	x





Depending on the material, we offer tool packages especially for the D1 pure that allow you to achieve ideal results in the production of restorations in individual materials. You can order these end mills in different units (also available per piece).

3 mm Shank

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00783906	0.60	4.00	0.55	36.00	2.50	10.00	0.30	х
00783910	1.00	4.00	0.95	44.00	4.00	18.00	0.50	x
00783920	2.00	4.00	1.90	46.00	4.50	20.00	1.00	x
00783106	0.60	4.00	0.55	36.00	2.50	10.00	0.30	
00783110	1.00	4.00	0.95	44.00	4.00	18.00	0.50	
00783120	2.00	4.00	1.90	46.00	4.50	20.00	1.00	
00783425	2.50	4.00	2.40	48.00	5.00	22.00	1.25	

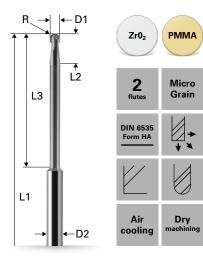
Tool packages D1 pure

Item No.	Description
0A32302A	DENTAL tool package D1 pure Zirconium Oxide for DATRON Dental CAM, consisting of: 2x 00783906, 3x 00783910, 4x 00783920
0A32302	DENTAL tool package D1 pure PMMA/wax for DATRON Dental CAM, consisting of: 2x 00783106, 3x 00783110, 3x 00783120, 3x 00783425
0A32302B	DENTAL tool package D1 pure for soft materials for DATRON Dental CAM, consisting of: 1x 00783906, 2x 00783910, 3x 00783920, 1x 00783106, 2x 00783110, 3x 00783120, 2x 00783425

Especially designed for use in external dental systems, DATRON has developed a comprehensive portfolio of special tools leading to excellent milling results in combination with DATRON Dental materials.



DATRON Milling Tools compatible with LAVA milling systems -Uncoated for Zirconium Oxide/PMMA/Wax



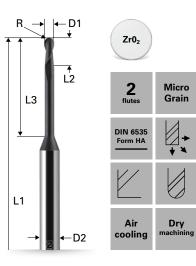
End mill type:	Ball nose 180° / end mill (Barcode Eraser) 90°
Number of flutes: Versions:	Two According to system requirements
Coating (CT):	None
Features:	High durability due to special solid carbide, sharp flutes
Indications:	All machinable indications

3 mm Shank

Item No.	Type)	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R
0078380B	1/2	2.00	3.00	1.95	50.00	2.00	25.00	1.00
0078380E	3	1.00	3.00	0.95	50.00	3.00	25.00	0.50
0078380A	4/5	2.00	3.00	1.60	39.00	2.00	16.00	1.00
0078380D	6	1.00	3.00	0.80	39.00	3.00	16.00	0.50
0078025	7	2.50	3.00		39.00	5.00		



DATRON Milling Tools compatible with Charly Robot milling systems -Coated for Zirconium Oxide



End mill type:	Ball nose 180° / end mill with 90° edge radius
Number of flutes:	Two
Versions:	According to system requirements
Coating (CT):	Diamond
Features:	High durability due to extreme diamond coating
Indications:	All machinable indications

Zr0₂

3 mm Shank

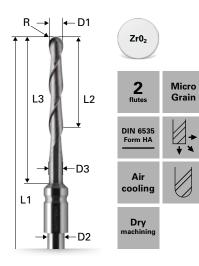
Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782005	0.50	3.00	0.45	39.00	0.75	4.00	0.25	
00782005L	0.50	3.00	0.45	39.00	0.75	10.00	0.25	
00782208A	0.80	3.00	0.75	39.00	3.00	12.00	0.40	х
00782210A	1.00	3.00	0.95	39.00	4.00	14.00	0.50	х
00782215A	1.50	3.00	1.40	39.00	4.00	14.00	0.75	x
00782333	3.00	3.00	2.70	39.00	4.00	14.00	0.30	x



50

DATRON Milling Tools compatible with Cercon Brain Expert milling systems -Uncoated for Zirconium Oxide

_	~
Z	r0 ₂



×

End mill type:	Ball nose 180°
Number of flutes:	Two
Versions:	According to system requirements
Coating (CT):	None
Features:	High durability due to special solid carbide, sharp
	flutes
Indications:	All machinable indications

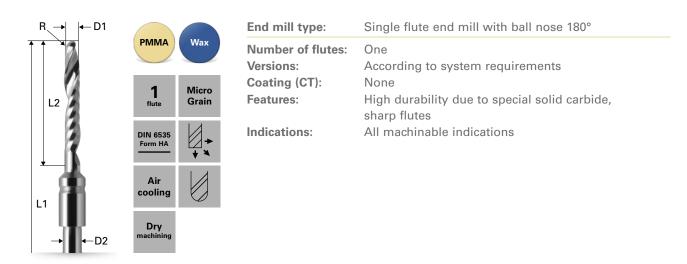
3 mm Shank

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
0073380L	3.00	3.50	2.90	55.00	20.00	30.00	1.50	
0073380K	2.00	3.50	1.90	55.00	10.00	20.00	1.00	
0073380J	1.00	3.50	0.90	55.00	10.00	20.00	0.50	
00733825	0.50	3.50	0.45	55.00	2.00	10.00	0.25	



DATRON Milling Tools compatible with Cercon Brain Expert milling systems - Uncoated for PMMA/Wax

PMMA ax



3,5 mm Shank

Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	R (mm)
0073380X	3.00	3.50	50.00	20.00	1.50
0073380Y	2.00	3.50	50.00	12.00	1.00
0073380Z	1.00	3.50	50.00	8.00	0.50
00733815	0.50	3.50	50.00	2.00	0.25







6 mm Shank, Short & Long Neck without Coating for PMMA/Wax

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	ст
00782705A	0.50	6.00	0.40	48.00	1.00	2.50	0.25	
00782910A	1.00	6.00	0.90	54.00	1.50	16.00	0.50	
00782920A	2.00	6.00	1.90	54.00	3.00	20.00	1.00	

6 mm Shank, Long Neck with Diamond Coating for ZrO₂

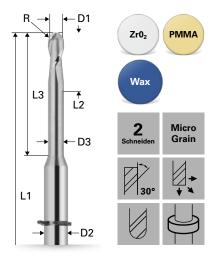
Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782807A	0.70	6.00	0.60	54.00	2.00	10.00	0.35	x
00782810A	1.00	6.00	0.90	54.00	1.50	18.00	0.50	x
00782820A	2.00	6.00	1.90	54.00	3.00	20.00	1.00	x

6 mm Shank, Long Neck with BALINIT® ALCRONA Coating for High-Class

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
0073404	1.00	6.00	0.95	50.00	4.00	16.00	0.50	x
0073404A	1.00	6.00	0.95	50.00	4.00	19.00	0.50	×
0073404B	2.50	6.00	2.40	50.00	4.50	16.00	1.25	x
0073404C	2.50	6.00	2.40	50.00	4.50	19.00	1.25	x

DATRON Milling Tools compatible with VHF milling systems -Uncoated for Zirconium Oxide and PMMA/Wax



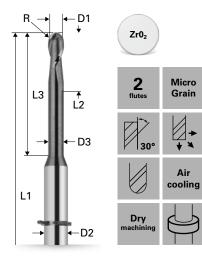


End mill type:	Ball nose 180°
Number of flutes: Versions:	Two Short Long
Coating (CT):	Short, Long None
Features:	Extremely sharp flutes, as not post-treated
Indications:	Caps, crowns (anatomic, anatomically reduced), bridges, bars, individual abutments, screwed- retained applications, 3D free-form surfaces

3 mm Shank, Short Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
00782135	0.60	3.00	0.55	35.00	1.20	3.00	0.30	
00782136	1.00	3.00	0.95	35.00	2.00	16.00	0.50	
00782137	2.00	3.00	1.95	35.00	3.00	16.00	1.00	
3 mm Shank	, Long Neck							
Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	
00782128	0.60	3.00	0.55	40.00	1.20	3.00	0.30	
00782129	1.00	3.00	0.95	40.00	2.00	16.00	0.50	
00782131			1.95	40.00		16.00	1.00	

DATRON Milling Tools compatible with VHF milling systems -Coated for Zirconium Oxide

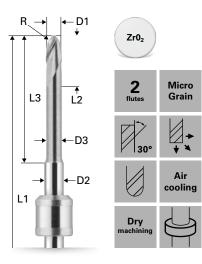


End mill type:	Ball nose 180°
Number of flutes:	Two
Versions:	Short, Long
Coating (CT):	DLC, Diamond
Features:	Very high durability due to Diamond Coating (resp. DLC)
Indications:	Caps, crowns (anatomic, anatomically reduced), bridges, bars, individual abutments, screwed- retained applications, 3D free-form surfaces

3 mm Shank, Short Neck

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782121	0.60	3.00	0.55	35.00	1.20	5.00	0.30	DLC
00782122	1.00	3.00	0.95	35.00	2.00	16.00	0.50	DLC
00782123	2.00	3.00	1.95	35.00	4.00	16.00	1.00	DLC
3 mm Shank	, Long Neck							
Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00782132	0.60	3.00	0.55	40.00	1.20	3.00	0.30	Diamond
00782133	1.00	3.00	0.95	40.00	2.00	16.00	0.50	Diamond
00782134	2.00	3.00	1.95	40.00	4.00	16.00	1.00	Diamond

DATRON Milling Tools compatible with Amann Girrbach milling systems - Coated/uncoated for Zirconium Oxide



End mill type:	Ball nose 180°
Number of flutes:	Two
Versions:	Long
Coating (CT):	None, Diamond
Features:	Very long durability, resulting in part from the use of special carbide and in part from extreme coatings.
Indications:	Caps, crowns (anatomic, anatomically reduced), bridges, bars, individual abutments, screwed-retai- ned applications, 3D free-form surfaces

3 mm Shank, Long Neck, without Coating

0.60

1.00

2.50

3.00

3.00

3.00

0.55

0.95

2.45

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
0073383U	0.60	3.00	0.55	47.00	2.00	14.00	0.30	
0073383V	1.00	3.00	0.95	47.00	2.00	16.00	0.50	
0073383W	2.50	3.00	2.45	47.00	4.00	18.50	1.25	
3 mm Shank, Long Neck, Diamond Coating								
Item No.	D1 (mm)	D2	D3	L1 (mm)	L2 (mm)	L3	R (mm)	СТ

47.00

47.00

47.00

2.00

2.00

4.00

14.00

16.00

18.50

0.30

0.50

1.25

Diamond

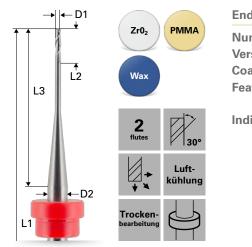
Diamond

Diamond

Zr0₂

DATRON Milling Tools compatible with Wieland T1 milling systems - Coated/uncoated for Zirconium Oxide and PMMA/Wax



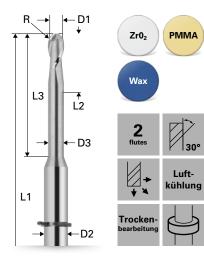


d mill type:	Ball nose 180°
umber of flutes: rsions: pating (CT):	two According to system requirements Diamond, none
atures: dications:	Very long durability, resulting in part from the use of special carbide and in part from diamond coatings. All machinable indications

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00781803	0.30	3.40		48.00	1.50	25.00	0.15	
00781806	0.60	3.40		48.00	4.00	25.00	0.30	
00781810	1.00	3.40	0.95	48.00	4.00	14.00	0.50	
00781824	2.40	3.40	2.15	48.00	5.00	25.00	1.20	
00781910	1.00	3.40	0.95	48.00	4.00	14.00	0.50	Diamond
00781924	2.40	3.40	2.15	48.00	5.00	25.00	1.20	Diamond

DATRON Milling Tools compatible with Wieland select milling systems Coated/uncoated for Zirconium Oxide and PMMA/Wax





End mill type:	Ball nose 180°
Number of flutes:	two
Versions:	According to system requirements
Coating (CT):	Diamond, none
Features:	Very long durability, resulting in part from the use of special carbide and in part from diamond coatings.
Indications:	All machinable indications

Item No.	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	R (mm)	СТ
00785803	0.30	3.00	0.25	40.00	0.60	2.50	0.15	
00785807	0.70	3.00	0.65	40.00	2.00	9.00	0.35	
00782129	1.00	3.00	0.95	40.00	2.00	16.00	0.50	
00785825	2.50	3.00	2.45	40.00	5.00	20.00	1.25	
00785707	0.70	3.00	0.65	40.00	2.00	9.00	0.35	х
00782133	1.00	3.00	0.95	40.00	2.00	16.00	0.50	х
00785725	2.50	3.00	2.45	40.00	5.00	20.00	1.25	x

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

The same as DATRON Dental milling tools, DATRON DentDiscs can also be used successfully with machines from other vendors.





With DATRON DentZirc opaque, we offer you an extra strong zirconium oxide with a 3-point flexural strength of 1300 ± 100 MPa. DentZirc opaque is ideal for the production of abutments on adhesive basis as well as crowns and bridges. These isostatically pressed milling blanks provide a classic white material that can be colored directly and individually and enhanced with all ceramic veneers.

Item No.	Thickness (mm)	Diameter (mm)	Colour
MD156114	14	98.5	white
MD156118	18	98.5	white
MD156120	20	98.5	white
MD156125	25	98.5	white

DATRON DentZirc opaque

DATRON DentZirc HT

With DATRON DentZirc HT, we offer pre-shaded highly translucent zirconium oxide blanks (individually isostatically pressed) for top aesthetic crowns and bridges for monolithic or ceramic veneering. DentZirc HT offers an extremely high translucency factor. Due to pre-shading, restorations can be manufactured reliably following the VITA Classical shade guide. With its standard 98.5 mm diameter, DATRON DentZirc HT can be machined on all open CAD/CAM systems.

Item No.	Thickness (mm)	Diameter (mm)	Colour*
MD151114	14	98.5	A1
MD151118	18	98.5	A1
MD151120	20	98.5	A1
MD151125	25	98.5	A1
MD151214	14	98.5	A2
MD151218	18	98.5	A2
MD151220	20	98.5	A2
MD151225	25	98.5	A2
MD151314	14	98.5	A3
MD151318	18	98.5	A3
MD151320	20	98.5	A3
MD151325	25	98.5	A3

DATRON DentZirc



Item No.	Thickness (mm)	Diameter (mm)	Colour*
MD1513514	14	98.5	A3.5
MD1513518	18	98.5	A3.5
MD1513520	20	98.5	A3.5
MD1513525	25	98.5	A3.5
MD151414	14	98.5	A4
MD151418	18	98.5	A4
MD151420	20	98.5	A4
MD151425	25	98.5	A4
MD152114	14	98.5	B1
MD152118	18	98.5	B1
MD152120	20	98.5	B1
MD152125	25	98.5	B1
MD152214	14	98.5	B2
MD152218	18	98.5	B2
MD152220	20	98.5	B2
MD152225	25	98.5	B2
MD152314	14	98.5	B3
MD152318	18	98.5	B3
MD152320	20	98.5	B3
MD152325	25	98.5	B3
MD152414	14	98.5	B4
MD152418	18	98.5	B4
MD152420	20	98.5	B4
MD152425	25	98.5	B4
MD153114	14	98.5	C1
MD153118	18	98.5	C1
MD153120	20	98.5	C1
MD153125	25	98.5	C1

DATRON DentZirc



Item No.	Thickness (mm)	Diameter (mm)	Colour*
MD153214	14	98.5	C2
MD153218	18	98.5	C2
MD153220	20	98.5	C2
MD153225	25	98.5	C2
MD153314	14	98,5	С3
MD153318	18	98,5	С3
MD153320	20	98,5	С3
MD153325	25	98,5	С3
MD153414	14	98,5	C4
MD153418	18	98,5	C4
MD153420	20	98,5	C4
MD153425	25	98,5	C4
MD154214	14	98.5	D2
MD154218	18	98.5	D2
MD154220	20	98.5	D2
MD154225	25	98.5	D2
MD154314	14	98.5	D3
MD154318	18	98.5	D3
MD154320	20	98.5	D3
MD154325	25	98.5	D3
MD154414	14	98.5	D4
MD154418	18	98.5	D4
MD154420	20	98.5	D4
MD154425	25	98.5	D4
MD155114	14	98.5	white
MD155118	18	98.5	white
MD155120	20	98.5	white
MD155125	25	98.5	white



DATRON DentTiA4

High-quality pure grade 4 titanium DATRON DentTi4 milling blanks are characterized by extraordinary material properties and have been especially developed for dental indications such as crowns and bridges in the anterior and posterior regions. This special grade 4 titanium material has been created for ceramic veneers suitable for titanium. This is the only way to achieve best aesthetic results. DentTi4 grade 4 titanium is a very tool-friendly product, obviously biocompatible and appropriate for veneering with all standard titanium burnon alloys.

DATRON DentTi4

Item No.	Thickness (mm)	Diameter (mm)	Colour
MD121110	10	98.5	
MD121112	12	98.5	
MD121114	14	98.5	
MD121118	18	98.5	

DATRON DentTiAlloy

Our high-quality DATRON DentTiAlloy titanium grade 5 alloy (Ti Al6 V4) features excellent material properties, allowing you to manufacture up to 14-unit bridges. With its mechanical and physical attributes – especially when it comes to strength – it is ideal for the production of implant structures and tertiary structures. This industrially manufactured dental material guarantees consistent manufacturing quality with excellent biocompatibility.

DATRON DentTiAlloy

Item No.	Thickness (mm)	Diameter (mm)	Colour	
MD122110	10	98.5		
MD122112	12	98.5		
MD122114	14	98.5		
MD122118	18	98.5		



DATRON DentCoAlloy

DATRON DentCoAlloy is a nickel and beryllium-free milling blank on CoCr basis. No special ceramic veneers are necessary when machining, i.e. DentCoAlloy can be veneered with all standard NEM ceramic veneers. Thanks to a special heat treatment during production. DATRON DentCoAlloy features excellent material properties. This universal dental material is soft and can be cut easily and reliably with all open CAD/CAM system due to its particularly homogeneous structure.

DATRON DentCoAlloy milling blanks are characterized by their high corrosion resistance and biocompatibility and are fully laserable.

Item No.	Thickness (mm)	Diameter (mm)	Colour
MD110108	8	98.3	
MD110110	10	98.3	
MD110112	12	98.3	
MD1101135	13.5	98.3	
MD110115	15	98.3	
MD110118	18	98.3	
MD110120	20	98.3	
MD110124	24	98.3	

DATRON DentCoAlloy



DATRON DentModel

DATRON DentModel polyurethane blanks are especially designed for the production of physical work models based on digital impressions. DentModel offers much higher abrasion resistance compared to plaster models. Swelling caused by water vapor jets is ruled out. Due to the high edge stability of DentModel, fine preparation edges can be preserved even in case of frequent restoration insertion and removal.

DATRON DentModel

Item No.	Thickness (mm)	Diameter (mm)	per package
0695952	15	98.5	16
0695951	20	98.5	12
0695950	25	98.5	10

DATRON DentBite

DATRON DentBite milling blanks are 100% made of polyamide. The standard 98.5 mm diameter of DentBite allows its use with all open milling systems. Thanks to the certification according to Medical Devices Act it is especially optimized for the production of orthodontic splints.

DATRON DentBite

Item No.	Thickness (mm)	Diameter (mm)	Colour
MD160114	14	98.5	transparent
MD160118	18	98.5	transparent

DATRON DentWax



DATRON DentWax

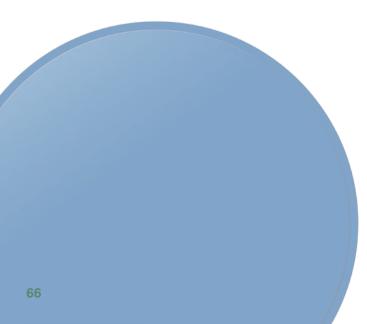
DATRON DentWax is a synthetic milling wax, appropriate for the production of crown and bridge structures to be further processed using casting due to its high edge stability. DentWax can be used with all open milling systems and burns without leaving residues due to its material properties. The 10-mm thick DentWax blanks are perfectly suited to calibrate your DATRON D1 pure. But they can be also used for the production of crown and bridge structures.

DATRON DentWax

Item No.	Thickness (mm)	Diameter (mm)	Colour
WX140115	15	98.5	blue
WX140120	20	98.5	blue

DATRON calibration wax for D1 pure

Item No.	Thickness (mm)	Diameter (mm)	Colour
WX140110	10	98.5	green





DATRON DentCryl color

With our DATRON DentCryl color (100% polymethyl methacrylate), we offer milling blanks with high material homogeneity ideally suited for the production of crowns and bridges as long-term temporaries due to their balanced combination of fracture strength, elasticity and excellent abrasion resistance. DATRON DentCryl color discs have a diameter of 98.5 mm and can be used with all open milling systems. Indications milled from DentCryl color can be customized with all conventional veneering materials and be fixed with all provisional cements.

DATRON DentCryl color is certified for use in the mouth cavity and can remain inside the mouth until the final implementation of permanent dentures.

Item No.	Thickness (mm)	Diameter (mm)	Colour*
MD131215	15	98.5	A2
MD131315	15	98.5	A3
MD132115	15	98.5	B1
MD131220	20	98.5	A2
MD131320	20	98.5	A3
MD132120	20	98.5	B1

DATRON DentCryl PMMA color

DATRON DentCryl cast

DATRON DentCryl cast is a PMMA material (100% polymethyl methacrylate) consisting of a millable filler-free acrylic polymer to be used instead of modeling wax. DentCryl cast is suitable for milling embeddable cast objects when manufacturing primary crowns in the telescope technique, for crown and bridge structures in the full casting technique and the press ceramic technique. The fitting accuracy of indications made of DentCryl cast can be checked directly inside the patient's mouth before the final restoration is made. DentCryl cast can be machined with all open milling systems and burns without leaving residues.

DATRON DentCryl PMMA cast

Item No.	Thickness (mm)	Diameter (mm)	Colour
PM136114	14	98,5	blue
PM136118	18	98,5	blue

DATRON DentCryl fun



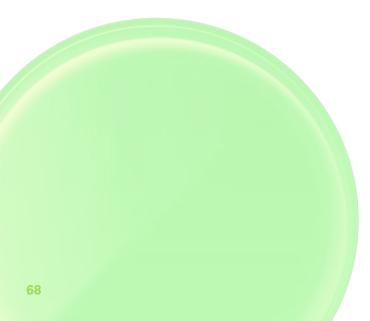
DATRON DentCryl fun

DATRON's DentCryl fun material (100% polymethyl methacrylate) is a PMMA, which consists of a millable filler-free acrylic polymer. With DATRON DentCryl fun, you can let your imagination run wild and make jewellery or figures on your own.

DATRON DentCryl fun has a fluorescent effect and glows in the dark.

DATRON DentCryl fun

Item No.	Thickness (mm)	Diameter (mm)	Colour
PM136214	14	98	green
PM136218	18	98	green



Some systems only have the ability to clamp milling tools directly into the rotating spindle. This is called direct shank clamping. Stop rings are necessary in these cases. By means of these rings, the length of the milling tool may be determined mechanically by the user outside of the spindle.



Item No.	D1 (mm)	D2 (mm)	Material
0068000	3.00	7.55	Synthetic
0068000Y	4.00	10.50	Brass*
0068002H	6.00	15.00	Brass*
0068002J	6.00	18.00	Brass*
0068002	6.00	10.50	Brass*
0068002C	3,00	6.90	Brass*

Insertion Tools for Limit Stop Rings

Insertion aids are necessary in order to fit stop rings accurately into milling tools. With the help of such equipment, you can always fit the right ring into the appropriate tool without difficulties.

A plastic hammer is recommended to drive the rings home.



Item No.	Description			
0068180B	Limit Stop Insertion Tool for 3 mm Shanks			
0068180C	Limit Stop Insertion Tool for 4 mm und 6 mm Shanks*			
0068180	Limit Stop Insertion Tool for 6 mm Shank Tools			

User Instructions for Item No. 0068180C

Depending on the shank clamping length needed (see measure Lx in figure), the measure can be adjusted exactly with the help of the accompanying adjusting washers, allowing the ring to be driven home accordingly.

15 mm shank clamping length	= receptacle + lid + adjusting washer 1 mm	
20 mm shank clamping length	= receptacle + lid + adjusting washer	
	4 mm and 2 mm	
25 mm shank clamping length	= receptacle + lid + alldjusting washers	



* The insertion tools consists of several parts (lower section, upper section, receptacle and adjusting washers). This allows you to drive the ring home effortlessly after measuring the correct distance.

DATRON Adapter Collets

DATRON's adapter collets allow using different tool shanks with a single spindle collet. For each tool in the changing station that has a different tool shank, an adapter collet is required. The adapters are reusable due to pre-clamping. An appropriate adapter insertion tool is required for defined opening.



Item No.	D1 (mm)	D2 (mm)			
0068336	3.00	6.00			
00683361*	3.00	6.00			
0068336C	3.00	8.00			
0068350D	4.00	6.00			
0068336D	4.00	8.00			
0068337D	Adapter insertion tool for 6 and 8 mm collets				

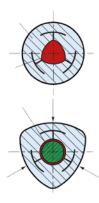
* Item 0068336I ist special for systems normally working with 6 mm shanks. The outer ring has a 10,50 mm Ø and therefore fits inside the tool magazine of the machine.

Polygon HSK-E 25 Clamping Systems - for highest process reliability

HSK-E collets are designed for accurate and safe operation at high speeds. The precise concentricity of less than 3 μ m is an added bonus to promote the quality standard of individual tasks. Increased tool durability is guaranteed through the use of HSK-E inserts. A special clamping fixture is required to use HSK-E collets.

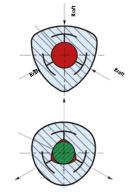


Item No.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	Туре
0068300G	3.00	20.00	40.00	25.00	HSK-E 25
0068300N	3.00	20.00	40.00	25.00	HSK-E 25 (vulcanised for wet machining)
0068301G	4.00	20.00	40.00	25.00	HSK-E 25
0068303G	6.00	20.00	40.00	25.00	HSK-E 25
0068303N	6.00	20.00	40.00	25.00	HSK-E 25 (vulcanised for wet machining)



1. Before clamping

3. Insertion of the tool shank



2. Inside the clamping device

4. The tool is clamped

Lubricants and spindle additives

Lubricants/emulsions are essential for special machining of different materials. Durability of tool is highly increased with such media. Reduced spindle power consumption is responsible for further cost reductions, resulting from the reduction of cutting and friction forces between tool and workpiece.



Item No.	Description	Packaging
0069266B	DATRON ProCut 200	10
0069266D	DATRON ProCut 200	51
0069266Y	Betronol MF V 1463 F, Coolant additive for disilicate machining	11
0074923Y	Measuring cup for filling of Betronol	1 piece
0069266X	Antifrogen-N for spindle cooling unit	10



In order to profit always from the full benefits of the DATRON D5, there are some essential accessories and wear parts. This is the only way to keep the added value of your machine at a constant high operative level.



DATRON D5 Blank Holders and Accessories

Item No.	Description
0A34103	Blank holder (unit for clamping blanks)
0071604P	Mounting screws for bland holder 0A34103
07020358	Upper distance ring (necessary when using 8 mm blanks)
07014981	Spacer ring (necessary when using 8 mm blanks)
0069890A	Clamping ring black*
0069890B	Clamping ring red*
07020847	Clamping ring yellow*
0198088	Torque Screwdriver
0198901	Quick measuring gauge T-59113 (Fino High Praeci Caliper)

^{*} Rubber rings lose shape and elasticity over time. Therefore it is necessary to replace clamping rings consistently every 3 months or after 100 h of operation with new ones, regardless of their hours of operation. Constant clamping or frequent loading and unloading of the rings, as well as contact with strong cleaning agents, lead to their instability and therefore, the impossibility of their being used further.



DATRON D5 Accessories for Wet Machining

Item No.	Description
0A34104	Holder for e.Max block (disilicate)
0198030	Allen wrench (for e.Max holder locking screw)
0071601A	Locking screw for e.Max holder
0069995B	Filter insert for emulsion-collecting container, 1 pack = 6 pieces

Machine vacuum cleaners are available in various performance classes and are only used for dry machining of common dental materials. The given suction power is fully kept up to a distance of 6 metres. These vacuum cleaners come complete and are directly applicable. The necessary collection tray and connection tube are included.

The fully automatic fire extinguishing system can be purchased with the milling machine or as a retrofit option. It is essential when the milling system machines titanium without operator or supervision, for example in case of night operation. The extinguishing system includes an extinguishing system control FB703, a safety cabinet for argon extinguishing media containers and a butterfly flame protection valve.



DATRON Vacuum Cleaners

Item No.	Description	
0A32204	Vacuum Cleaner Type RE115 with three-phase connector CEE (power 1,220 m³/h, vacuum 18 mbar, supply Ø120 mm)	
0A32202	0A32202 Vacuum Cleaner Type RE120 with three-phase connector CEE (power 1,170 m ³ /h, vacuum 36 mbar, supply Ø120 mm)	

DATRON D5-Extinguishing System for Unmanned Titanium machining

Item No.	Description	
0A34010	4010 D5-extinguishing system including installation, putting into operation and training	
DATRON D5-Weight Balance Platform		
Item No	Description	

0A34105	Special professional weight balance platform for D5 system (WxHxD: 795 mm x 1,120 mm x 15 mm)
UA34105	Special professional weight balance platform for US system (WXHXU) /95 mm x 1,120 mm x 15 mm)



In order to profit always from the full benefits of the DATRON D5, there are some essential accessories and wear parts. This is the only way to keep the added value of your machine constantly operating at a high level.



DATRON D5 Cleaning Accessories

Item No.	Description
0068338H	Cleaning pin for spindle
0695046	Cleaning set (contains 0069659A/ B/ C)
0069659A	Dust brush, short, without handle
0069659B	Dust brush, long, with handle
0069659C	Dust brush, angled, long, with handle

DATRON D5 Maintenance Accessories

Item No.	Description
0074921E	Hand lever grease gun, 500 ml, with "Dynalub 510" cartridge
0077107Z	Dynalub 510 high-performance grease, 400 g cartridge

The DATRON D5 is a high-performance milling-grinding machine¹ especially developed for use in dental applications with the smallest footprint.

The machine includes, among other features:

- Integrated touch control panel
- Rotary swivel axis for 5-axis simultaneous machining
- Cooling device for spindle and drive
- 7 or 15 station tool changer with tool length sensor and tool breakage detection
- Chip container and connection nozzle for suction
- Integrated automation with 8x blank changer optional)
- Minimum Quantity Cooling Lubrication System for metal machining (optional)
- Flood cooling for glass ceramics grinding (optional)

Further information at:

www.dentalcam.com







¹ with "wet machining" option



DATRON D5 Service completely worry-free production!

Our Services

- Service Hotline: +49 (0)6151-1419-153
- Putting into operation and on-site repairs
- Decentralised service centres
- Spare parts shipment with high availability of parts
- Maintenance and machine overhauls
- Software updates and upgrades
- Logistic support
- Remote maintenance
- On-site process support
- Warranty extension

DATRON Maintenance Contract

An individually tailored maintenance contract will help you to reach your production goals safely and reliably.

- Maintenance at a fixed price
- On-site response time on work days within 24 hours
- Increased machine availability
- Machine precision check
- 15% discount on applicable travel and hourly rates
- Increased Hotline availability (Monday to Friday, 7 am - 7 pm, Saturday 9 am - 3 pm, CET
- Fixed price: 738.00 € per maintenance plus travel costs and material
- Your savings: 160.00 € per maintenance as compared to standard maintenance without a contract

DATRON Machine Check

We take care of (almost) everything!

A periodical function check increases the availability of your machine system. We offer a monthly function check of your DATRON dental milling machine by our specialised staff.

The function check includes:

- Automation (blank magazine, workpiece handling, etc.)
- Tool changer positions
- Vacuum-cleaning
- High frequency spindle
- Cooling/lubricating system
- Machine geometry and accuracy

The monthly workload is approximately 2.5 hours at a **fixed price of € 250.00** plus travel and transport costs incurred.

DATRON D1 pure - Maximum performance using the smallest space

Our compact and easy to use dental milling machine provides dental laboratories and dentists with new opportunities for cost-effective work and sets new standards in the implementation of all dental indications in soft materials. As your reliable partner with long-standing global experience, you will get from us the complete process for the production of high quality dentures, everything from a single source. Advantages at a glance:

- Machine auto-calibration
- Undercut milling by rotary/swivel axis
- Precise 450 W spindle
- Automatic length measuring
- Easy operation with integrated 9" touch screen
- Compact table-top milling machine with a small footprint
- Perfect suction of material dusts
- Easy commissioning



DATRON D1 pure -Accessories

The D1 pure is supplied with a starter kit for machine maintenance. Should you wish to substitute individual components due to wear/loss, you can reorder them individually.

In addition, there are a number of accessory components that allow you to achieve the maximum potential during the milling process.

We will be happy to provide you with detailed information at:

Tel.: +49 (0) 61 51-14 19 - 550



Calculation Parameters/Standards -Formulae for calculation of milling parameters

Formula		Parameter
Cutting speed	$V_{c} = \frac{\pi * d * n}{1000}$	V _c = Cutting speed (mm/min) d = Tool diameter (mm) n = Number of revolutions (rpm)
Feed speed	$V_f = f_n * n * z$	V _r = Feed speed (mm/min) f _n = Tooth feed (mm/min) n = Number of revolutions (rpm) z = Number of teeth (-)
Cutting capacity	$P_c = \frac{Q}{V_{sp}}$	P _c = Cutting capacity (kW) Q = Chip volute per time unit (cm ³ /min) V _{sp} = Special chip volume per time unit (cm ³ /min/kW)
Chip volume per time unit	Q = a _e * a _p * v _f	Q = Chip volume per time unit (cm ³ /min) a_{e} = radial working engagement (mm) a_{p} = Cutting deptch (mm) v_{f} = Feed speed (mm/min)

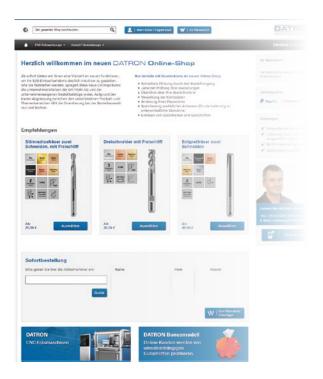
Cutting speed and feed rate are probably the most important factors in machining, as these parameters strongly influence production time. Cutting speed means the speed with which the rotating tool moves directly on its flutes through the workpiece, the dental prosthesis, removing a chip. It is expressed typically in metres per minute. The choice of the cutting speed depends largely on the composition and strength of the material to be machined, the toughness and hardness of the milling tool and the required and desired dimensional accuracy and surface finish. The higher the cutting speed, the smoother and finer the machined surface. However, in parallel with increasing cutting speeds, the wear of the used milling tool also grows.

DATRON Tool Online Shop

We are constantly working on improvements. To make your B2B shopping experience still more intuitive we have recently introduced a number of new features at our Online Shop.

Register with your contact details and get the following benefits with your account:

- Faster guidance throughout the checkout process
- Review your orders at any time
- Review of your order history
- Account information management
- Changing of password
- Storage of additional addresses (for delivery to different locations)
- Redemption of coupons and credits





Do you have further questions about the DATRON Online Shop?

We will be happy to help you by calling:

+49 (0)6151-1419-111

or scan the depicted QR code with your smartphone to go straight to the DATRON Online Shop:

www.datronshop.de



Company stamp	Contact person	Customer number	
Billing address	Shipping address		

ltem No.	Item Description	Unit Price	Quantity	Final Price
			Subtotal:	
			VAT:	
-t- Cinnetune			Total:	

Date, Signature

Delivery and Payment Terms for Tool Deliveries

Prices are ex works, excluding VAT., packaging, freight and insurance. For orders below € 50.00 net, there is a minimum order surcharge of € 15.00. Orders over € 50.00 are delivered free of charge. For orders up to € 50.00 within Germany, we charge a packaging and shipping fee of € 9.00. Overseas shipping fees are charged at cost. International payment fees shall be borne by the customer. Payments are to be made within 14 days on receipt of invoice less 2 % discount or within 30 days net. In case of direct debit authorisation we grant a discount of 4%. These special conditions are only applicable to tool deliveries. Other deliveries from our delivery programme are specifically excluded from these special conditions. Our offers and deliveries are subject to the "General Delivery and PaymentTerms & Conditions."

Direct bank debit service gives you benefits!

- You save time and money, because there is no need to fill in transfer forms nor to take them to the bank, send them by mail or submit them via electronic banking.
- The debit to your account will of course only be done after the invoice has been issued. You will be advised by a note on the invoice that the amount is debited from your account.
- You take no risks and may object individual debits at any time. You may revoke the authorisation given to us without notice at any time.
- The debit authorization is valid for all tool deliveries, accessories and service products and services. Exclusion of a specific field is not possible.
- Invoices for machines are not included in direct debit: their payment is always done via an invoice.
- Only for customers with a bank account in Germany
- Amount of orders limited to € 300.00 net for new customers (first order)
- Special conditions for bank debit
 4% discount on tool deliveries
 0% discount on service products and services

Do you have further questions? We will be happy to answer them at any time. Just call (06151-1419-0). Otherwise, we have everything ready for you. Just complete the debit authorisation, sign it and return it to us. We will be happy to receive it via fax (06151-1419-39) as an advance, but we kindly ask for your understanding for also needing to receive the original by mail for legal reasons.

Debit authorisation:

I/we hereby grant a revocable authorisation to the company DATRON AG to collect the amounts of my/our invoices when due by debiting my/our account. Sufficient coverage is provided. I/we am/are aware that no obligation for payment exists on part of the bank if my/our account does not have sufficient fund coverage.

Customer number:	IBAN:
Company/Name:	BIC:
Street:	Account Holder:
Post Code/City:	
Contact:	-
Place, Date	Company stamp/legally binding signature

Notes

www.dentaltools.datron.de

Order now: Ordering hotline: +49 (0) 61 51 - 14 19 - 111



Fax:

+49 (0) 61 51 - 14 19 - 39



E-Mail tools@datron.de



Or in our Online-Shop: www.datronshop.de

© 2015 DATRON AG - March 2015

All information in this brochure refers to current descriptions or features which may change owing to further product development. Descriptions and characteristics are only binding if expressly agreed on in writing at contract conclusion.

Company and product names may be trademarks of the respective companies with which they are associated.

DATRON AG In den Gänsäckern 5 64367 Mühltal, Germany Tel.: +49 (0) 61 51 - 14 19 - 0 Fax: +49 (0) 61 51 - 14 19 - 690 www.datron.de