

Scanner accessories



Digiscan-Spray

Digiscan-Spray is an indispensable addition for the modern laboratory.

Ultra fine spray layer makes the correction after scanning much easier.

Digiscan-Spray can be applied onto silicone, diestone, wax or alloy.

Economic 300ml spray.

A distance of ca. 30 cm must be maintained between the spray and the object.

- eliminates reflections and reduce digital artifacts
- very fine spray
- one layer can be applied onto another
- smooth surface
- significantly better scan results
- easy to remove without leaving any residues

Digiscan-Spray	300 ml	Art.-No. 581-0300
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CAD / CAM Scan wax, beige

Laser-opaque and light-opaque sculpturing wax for CAD / CAM technique.

- guarantees excellent scanning results and exact fitting
- highly opaque wax for optimal scan data
- excellent as block out wax
- superb modeling qualities

CAD / CAM Scanwachs beige	45 g	Art.-No. 729-5000
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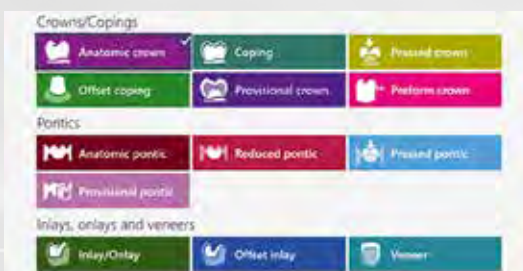


exocad

Authorized distributor for leading dental CAD-Software (OEM)

Already the standard version of this software covers a wide variety of indications, making it an attractive choice both for expert users and newcomers in the dental CAD field.

The module system of exocad DentalCAD standard version is easily extensible and can be quickly adapted to individual needs. This software is the optimal solution for every user in accordance with personal requirements and budget.



- easy to use even for newcomer
- modular system for highest flexibility
- variety of modules with additional functions
- purchase only what you need

Exocad basis software Further modules on request	Art.-No. 470-3200
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Further modules on request



also as vinyl high resolution (HR) and vinyl open air available

SCAN BOX	Features	Vinyl 3D-Scanner
v	dental Scan	v
-	articulator scan	v
expandable	multiDie / multiCase	v
v	secondDie	v
-	Texture scan color	v
v	Texture scan monochrome	v
expandable	Triple Tray® Impression scan	v
-	Fully automated Z-axis	v
-	Touch display	v
v	Compatibility with exocad® DentalCAD	v

Technical data

Dimension (WxDxH) 360 x 310 x 390 mm
 Measurement field (X x Y x Z) 80 x 60 x 85 mm
 Resolution 1,3 MP
 Accuracy (ISO 12836) 6 µm
 Weight 11 kg
 Power Supply Voltage 100 - 240 VAC, 50/60 Hz
 Interfaces 2x USB
 Housing color white/silver
 Scope of delivery: 1 SCAN BOX PRO, 1 object holder, 1x 3D calibration model, 2x USB cable, 1x mains cable, 1x data carrier

Measurement Time

Complete Jaw Scanning 18 sec
 Postprocessing 14 sec
 Total 32 sec
 Single Tooth Scanning 29 sec
 Postprocessing 10 sec
 Total 39 sec
 3-unit bridge Scanning 40 sec
 Postprocessing 23 sec
 Total 63 sec

Technical data

Dimension (WxDxH) 455 x 430 x 420 mm
 Measurement field (X x Y x Z) 80 x 60 x 85 mm
 Resolution 1,3 MP
 Accuracy (ISO 12836) 6 µm
 Weight 23 kg
 Power Supply Voltage 100 – 240 VAC, 50/60 Hz
 Interfaces 1x USB
 Housing color black / white
 Scope of delivery: 1x Vinyl, 1x Object holder, 1x multiDie adapter, 1x Triple Tray® impression holder, 1x 3D calibrations model, 1x USB cable, 1x mains cable, 1x CD

Measurement Time

Complete Jaw Scanning 16 sec
 Postprocessing 13 sec
 Total 29 sec
 Single Tooth Scanning 25 sec
 Postprocessing 9 sec
 Total 34 sec
 3-unit bridge Scanning 33 sec
 Postprocessing 22 sec
 Total 55 sec

SCAN BOX

Art.-No. 470-8100

Vinyl 3D-Scanner

Art.-No. 470-8200

Computer



Computer i5 (for scanning & milling)

- Intel i5-8600K
- 16 GB RAM
- ATX TOWER (or similar)
- 500W Power supply
- ASUS H310M-C
- DVD read and write drive
- 256 GB SSD
- CHERRY Stream Keyboard
- Logitech M90 Mous
- Windows 10 Professional
- Pre-installed and ready to use

Besondere Merkmale:

- Optimized performance for using the scanning and milling software
- Pre-installed operating system
- Ready for immediate use
- Low noise level
- Good cooling performance due to optimized airflow

Computersystem i5

Art.-No. 470-5000

Computer i7 (für Exocad)

- Intel i7-9700T 3.00 GHz
- 16 GB RAM
- ATX TOWER (or similar)
- 500W Power supply
- ASUS H310-PLUS
- DVD read and write drive
- 256 GB SSD
- 1TB HDD
- CHERRY Stream Keyboard
- Logitech M90 Mous
- Windows 10 Professional
- Pre-installed and ready to use
- ASUS GTX 1650

Besondere Merkmale:

- Optimized performance for using the Exocad software
- Pre-installed operating system
- Ready for immediate use
- Low noise level
- Good cooling performance due to optimized airflow

Computersystem i7

Art.-No. 470-5001

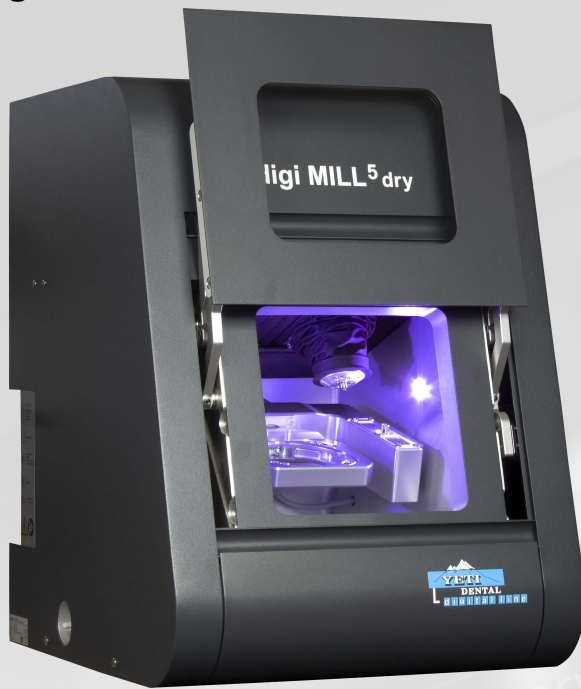


Monitor 24" ACER 1920-1080 Full HD

Art.-No. 470-5002

Monetary 2

Milling machines



also available as + variant

digi MILL⁵ Dry milling machine

- 5 simultaneously functioning axes
- air pressure (min./max.): 7 bar/ 8 bar (recommended 7 bar)
- automatic tool changer for 16 tools

- user friendly CAM software
- all open STL-files can be used

Rotation range: 360° (A) | ± 35° (B)

- for blanks Ø 98,5 mm with a height of 10 - 40 mm
- synchronous spindle rotational speed till 60.000 U/min
- maximum power output (Pmax): 500 W
- repetition accuracy ± 0,003 mm

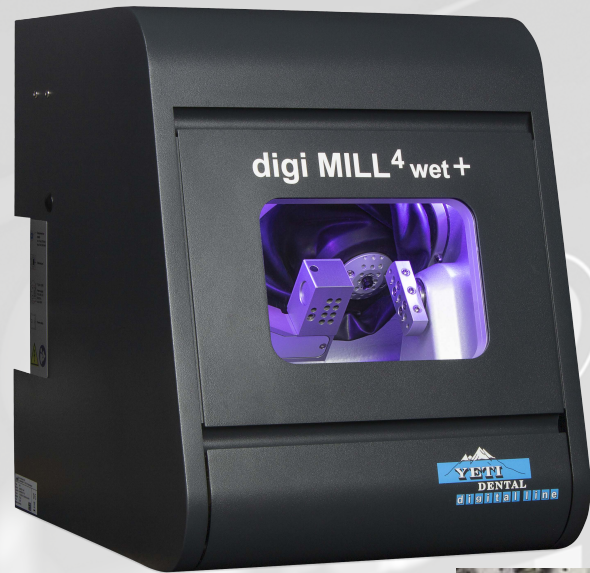
- Working chamber illumination with color status indication

Plastics, wax, zirconium oxide, composites, CoCr, model plaster

Technical Data

Dimensions (W/D/H): 450 x 530 x 630 mm

Weight: approx. 91 kg



digi MILL⁴ wet+ wet grinding machine

- 4-axes wet grinding
- Compressed air supply 4 bar · 35 l/min – 8 bar · 50 l/min
- Automatic tool changer for 8 tools with 2 removable changer stations for easy equipment

- User-friendly CAM-Software
- All open STL-files readable

- Rotation range: +190° to –10°
- For 3 blocks with round shanks (total positioning range for workpieces: 60 x 40 x 20 mm)
- Synchronous spindle with rotational speed range up to 60,000 RPM
- Maximum power output (Pmax): 600 W
- Repetition accuracy linear axes ± 0,003 mm
- Machine base made of a solid cast aluminium body for maximum stability
- 8 liquid nozzles on the spindle

- Workspace lightning for status indication

- No air extraction necessary

Block materials such as glass ceramic, zirconium oxide, composites, titanium etc

Technical Data

Dimensions (WxDxH) ca. 360 x 451 x 471 mm

Weight ca. 50 kg



digi MILL⁵ Dry milling machine

Art.-No. 481-5100

digi MILL⁴ wet+ - wet grinding machine

Art.-No. 481-4601



Dental Tools



Universalwerkzeuge						
Artikelnummer	Bezeichnung	Ø Schneide	Schneidegeometrie	Zähne	Gesamtlänge	Beschichtung
481-0403	U030-R2-40	0,30 mm	Stimradius	2	40 mm	nein
481-0405	U050-F2-40	0,50 mm	Zylinder	2	40 mm	nein
481-0506	U060-R2-40	0,60 mm	Stimradius	2	40 mm	ja
481-0530	U120-F2-40	1,20 mm	Zylinder	2	40 mm	ja
481-0401	U030-R2-35	0,30 mm	Stimradius	2	35 mm	nein
481-0407	U050-F2-35	0,50 mm	Zylinder	2	35 mm	nein
481-0806	U060-R2-35	0,60 mm	Stimradius	2	35 mm	ja
481-0402	U120-F2-35	1,20 mm	Zylinder	2	35 mm	ja
Wachs und Kunststoffe (PMMA)						
Artikelnummer	Bezeichnung	Ø Schneide	Schneidegeometrie	Zähne	Gesamtlänge	Beschichtung
481-0611	P100-R1-40	1,00 mm	Stimradius	1	40 mm	nein
481-0612	P200-R1-40	2,00 mm	Stimradius	1	40 mm	nein
481-0610	P100-R2-40	1,00 mm	Stimradius	2	40 mm	nein
481-0620	P200-R2-40	2,00 mm	Stimradius	2	40 mm	nein
481-0613	P250-F1-40	2,50 mm	Zylinder	1	40 mm	nein
481-0640	P100-R1-35	1,00 mm	Stimradius	1	35 mm	nein
481-0641	P200-R1-35	2,00 mm	Stimradius	1	35 mm	nein
481-0625	P100-R2-35	1,00 mm	Stimradius	2	35 mm	nein
481-0635	P200-R2-35	2,00 mm	Stimradius	2	35 mm	nein
481-0642	P250-F1-35	2,50 mm	Zylinder	1	35 mm	nein
Zirkonoxid (ZrO ₂)						
Artikelnummer	Bezeichnung	Ø Schneide	Schneidegeometrie	Zähne	Gesamtlänge	Beschichtung
481-0410	Z100-R2-40	1,00 mm	Stimradius	2	40 mm	ja
481-0420	Z200-R3-40	2,00 mm	Stimradius	3	40 mm	ja
481-0306	Z060-R2D-40	0,60 mm	Stimradius	2	40 mm	diamantiert
481-0310	Z100-R2D-40	1,00 mm	Stimradius	2	40 mm	diamantiert
481-0320	Z200-R3D-40	2,00 mm	Stimradius	3	40 mm	diamantiert
481-0412	Z120-F2D-40	1,20 mm	Zylinder	2	40 mm	diamantiert
481-0910	Z100-R2-35	1,00 mm	Stimradius	2	35 mm	ja
481-0920	Z200-R3-35	2,00 mm	Stimradius	3	35 mm	ja
481-0326	Z060-R2D-35	0,60 mm	Stimradius	2	35 mm	diamantiert
481-0330	Z100-R2D-35	1,00 mm	Stimradius	2	35 mm	diamantiert
481-0335	Z200-R3D-35	2,00 mm	Stimradius	3	35 mm	diamantiert
481-0336	Z120-F2D-35	1,20 mm	Zylinder	2	35 mm	diamantiert
Composites und Lava - ultimate						
Artikelnummer	Bezeichnung	Ø Schneide	Schneidegeometrie	Zähne	Gesamtlänge	Beschichtung
481-0509	C100-R1D-40	1,00 mm	Stimradius	1	40 mm	diamantiert
481-0510	C100-R2-40	1,00 mm	Stimradius	2	40 mm	ja
481-0511	C200-R1D-40	2,00 mm	Stimradius	1	40 mm	diamantiert
481-0520	C200-R2-40	2,00 mm	Stimradius	2	40 mm	ja
481-0521	C200-FXD-40	2,00 mm	Flach	x	40 mm	diamantiert
481-1009	C100-R1D-35	1,00 mm	Stimradius	1	35 mm	diamantiert
481-1010	C100-R2-35	1,00 mm	Stimradius	2	35 mm	ja
481-1011	C200-R1D-35	2,00 mm	Stimradius	1	35 mm	diamantiert
481-1020	C200-R2-35	2,00 mm	Stimradius	2	35 mm	ja
481-0522	C200-FXD-35	2,00 mm	Flach	x	35 mm	diamantiert
NEM-Werkstoffe (CoCr) und Titan						
Artikelnummer	Bezeichnung	Ø Schneide	Schneidegeometrie	Zähne	Gesamtlänge	Beschichtung
481-0706	M060-R2-35	0,60 mm	Stimradius	2	35 mm	ja
481-0710	M100-R2-35	1,00 mm	Stimradius	2	35 mm	ja
481-0730	M120-T2-35	1,20 mm	Torus	2	35 mm	ja
481-0720	M200-R2-35	2,00 mm	Stimradius	2	35 mm	ja
481-1106	M060-R2-32	0,60 mm	Stimradius	2	32 mm	ja
481-1110	M100-R2-32	1,00 mm	Stimradius	2	32 mm	ja
481-0725	M120-T2-32	1,20 mm	Torus	2	32 mm	ja
481-1120	M200-R2-32	2,00 mm	Stimradius	2	32 mm	ja
Glaskeramik (LISI ²)						
Artikelnummer	Bezeichnung	Ø Schneide	Schneidegeometrie	Zähne	Gesamtlänge	Beschichtung
481-1206	G060-R-35	0,60 mm	Stimradius	0	35 mm	nein
481-1206-1	G060-T-35	0,60 mm	Torus	0	35 mm	nein
481-1210	G100-R-35	1,00 mm	Stimradius	0	35 mm	nein
481-1212	G120-T-35	1,20 mm	Torus	0	35 mm	nein
481-1211	G240-R-35	2,40 mm	Torus	0	35 mm	nein

CAD / CAM Blanks

CAD / CAM Blanks

Strength	Content	Wax					
		grey	beige	white	blue	green	80
		normal hard (hardness 2)	hard (hardness 3)	hard (hardness 4)	hard (hardness 4)	elastic (hardness 1)	soft (hardness 0)
		slightly elastic microwax				Model casting	Modelable
Diameter in mm		Ø 98,5	Ø 95,0	Ø 98,5	Ø 98,5	Ø 98,5	Ø 98,5
Article number		791-....	791-....	792-....	793-....	794-....	795-....
14,0 mm	1 pcs.	....0014		....0014	....0014	....0014	
	12 pcs.				....0114	....0114	
16,0 mm	1 pcs.		....0116				....0016
20,0 mm	1 pcs.	....0020	....0120	....0020	....0020	....0020	....0020
	12 pcs.				....0120	....0120	
25,0 mm	1 pcs.				....0025	....0025	
30,0 mm	1 pcs.				....0030	....0030	
							
Hardness 1 bis 4 = 1 elastic hard to 4 very hard							

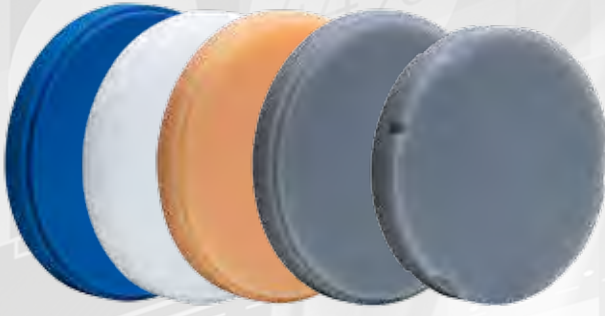
CAD / CAM Blanks PMMA

Strength	Content	PMMA	
		one colour	layered
		(colour indication follows article number)	
Diameter in mm		Ø 98,5	Ø 98,5
Article number		398-....	
18,0 mm	1 pcs.		....4118 (A1)
	1 pcs.		....4218 (A2)
	1 pcs.		....4318 (A3)
20,0 mm	1 pcs.	....0220 (A2)	
	1 pcs.	....0320 (A3)	
	1 pcs.	....1120 (B1)	
	1 pcs.	....8020 (transparent)	
25,0 mm	1 pcs.	....0225 (A2)	
	1 pcs.	....0325 (A3)	
	1 pcs.	....1125 (B1)	

CAD / CAM Blanks Metal

Strength	Content	Metal
Diameter in mm		Ø 98,5
		Solibond C plus Blank
Article number		969-....
10,0 mm	1 pcs.	....9010
12,0 mm	1 pcs.	....9012
13,5 mm	1 pcs.	....9013
15,0 mm	1 pcs.	....9015
		CoCr sintered alloy blanks
Article number		969-....
10,0 mm	1 pcs.	....9110
12,0 mm	1 pcs.	....9112
14,0 mm	1 pcs.	....9114
16,0 mm	1 pcs.	....9116
18,0 mm	1 pcs.	....9118
20,0 mm	1 pcs.	....9120

CAD / CAM wax blanks



- Stable wax composition - allows the milling cutter to work on the narrowest space
- Homogenous surfaces – mirror-smooth milled surfaces
- Wax chips are not melting in the working area and the exhaust system remains efficient
- Produced from residue-free, temperature stable and investment compatible micro-waxes
- Quality - Made in Germany -

CAD / CAM wax blanks

For partial dentures



- Stable in form and volumes
- Breakresistant
- Sharp contours

CAD / CAM wax blank 80



- Lowered melting point 80°C
- Modelable with sculpturing and cervical wax
- clean scrape down – mirror-smooth surfaces
- made of micro wax that burns without residue
- and is compatible with investment material
- (temperature stable)
- **use a single tooth cutter if dry milling!**

CAD / CAM PMMA blanks In one color, transparent or layered



- For production of temporary crowns and bridges
- High break strength and good processing characteristics
- Very natural and aesthetic - layering is modeled on the natural characteristics (layered blanks)
- Available in different colors and thicknesses

Solibond C plus blank alloy (non precious)

CoCr



- For ceramics
- Biocompatible
- Laser-capable
- Quick polishing and surface gloss
- Optimal bonding with ceramics

Vickers hardness: 330 HV
Elongation: 6,5 %
CTE (20 - 600°C) 14,4 · 10⁻⁶K⁻¹

Co %	Cr %	Mo %	Si %
63	29	5,8	1,2

CoCr sintered alloy blanks (non precious)



- longer working time of cutters
- minimum time for finishing
- perfect adhesion with ceramics
- can be furnace-fired, is biocompatible and laser-capable

Vickers hardness: 285 HV
Elongation: 10,0 %
WAK (20 - 600°C) 14,1 · 10⁻⁶K⁻¹

Co %	Cr %	Mo %	Mn %	Fe %	C %	Ni %
Balance	27,5-29,5	5,5-6,5	<0,1	<0,1	<0,1	<0,1



Ø 98,5
mm

Ø 95,0
mm

Pre-sintered and yttrium-stablized zircon blanks for crown and bridge technique.

K2 zircon blanks translucent

- natural-looking aesthetic results
- reduction of brightness level due to high translucency
- low light reflection
- natural adaptation to another teeth
- suitable for large-span bridges till 14 units but with max. 2 pontics
- particular good biological compatibility
- homogenous density and very fine grain for smooth milling results
- high edge stability

Density	6.08 g/cm ³
Flexural strength (biaxial)	>1100 MPa
Grain size	<0.4 µm
Breaking strength	5 MPavm
Vickers hardness HV10	1250
Translucency (1mm, D65)	41 %
CTE	10 10 ⁻⁶ /K
Thermal conductivity	2.5 W/mK
Dissolubility	≤50 µg/cm ²

Recomendation: DIP & BRUSH K2 zircon liquid for colorisation of milled works in suitable dental color

Strength	Content	Zircon	
		translucent	
Diameter in mm		Ø 98,5	Ø 95,0
Article number		397-....	397-....
10,0 mm	1 St.	....0010	....1010
12,0 mm	1 St.	....0012	....1012
14,0 mm	1 St.	....0014	....1014
16,0 mm	1 St.	....0016	....1016
18,0 mm	1 St.	....0018	....1018
20,0 mm	1 St.	....0020	....1020
25,0 mm	1 St.	....0025	....1025



Geo5 - K2 CAD / CAM Zirconia

5 colour gradient Layer

5 strength Layer

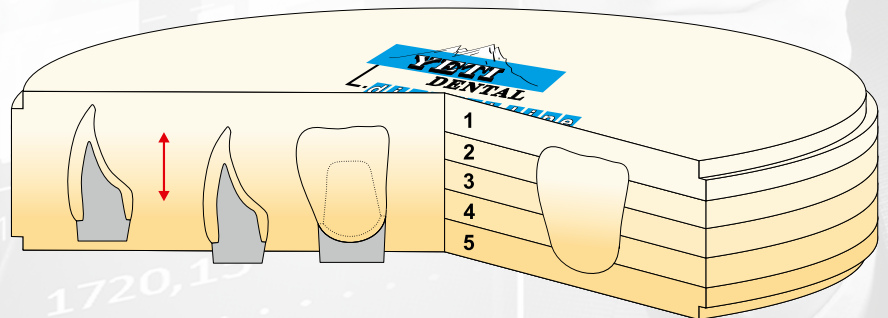
5 translucency Layer



before



finished glazed work



layer	height	translucency	strength
1	23%	47%	≥ 800
2	18%	46,5%	≥ 850
3	18%	46%	≥ 900
4	18%	45%	≥ 1000
5	23%	44%	≥ 1100

Geo5 K2 CAD / CAM Zirconia					
colour	Art-No.	height			
		14mm	16mm	18mm	20mm
A1	396-90..	..14	..16	..18	..20
A2	396-91..	..14	..16	..18	..20
A3	396-92..	..14	..16	..18	..20
A3,5	396-93..	..14	..16	..18	..20
B1	396-94..	..14	..16	..18	..20
B2	396-95..	..14	..16	..18	..20
C2	396-96..	..14	..16	..18	..20
BL1	396-97..	..14	..16	..18	..20
BL2	396-98..	..14	..16	..18	..20

DIP & BRUSH



CARAMISTA-PURE
excellence line
Brush-SET (02/04) Art.-Nr. 314-5000



DIP & BRUSH K2 CAD / CAM Zircon liquid

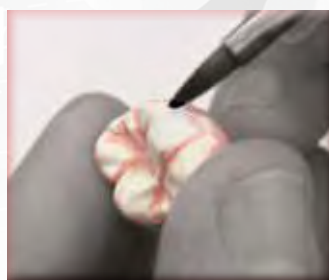
With K2 Dip & Brush it is possible to individualize parts of frameworks (Brush) or to colorize whole frameworks by dipping (Dip) before sinterisation.

Water based colours with 100 ml volume are available in 7 dentin and 2 enamel colours.



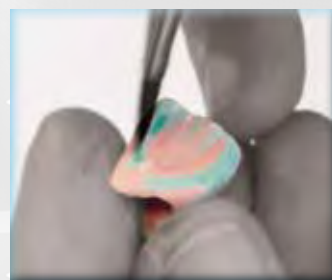
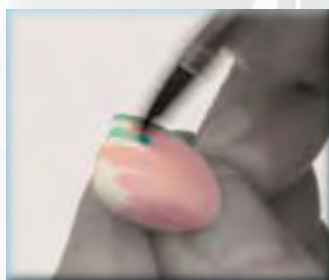
Dipping technique:

Dentin colorization of frameworks by dipping them is applicable mainly in layering technique. It allows the reduction of zircon whiteness. Thus, less light is reflected and it leads to outstanding aesthetic results particularly in the thin areas.



Painting technique:

Painting technique (Brush) is suitable mainly for monolithic restorations which can be individualized with different dentin and enamel colours before sinterization. It makes the finalization with stains and glaze powder easier after sinterization.



DIP & BRUSH
K2 CAD / CAM Zircon liquid, 100 ml

A1 = Art.-No. 397-5001
A2 = Art.-No. 397-5002
A3 = Art.-No. 397-5003
A3,5 = Art.-No. 397-5004
B2 = Art.-No. 397-5007

C2 = Art.-No. 397-5011
D2 = Art.-No. 397-5014
BL1 = Art.-No. 397-5017
GR3 = Art.-No. 397-5019

Compressor / Sintering furnace

YETI piston compressor

Fully automatic, air-cooled, quiet running ready to use compressor with electric motor which is installed on 20-liter pressure vessel.

Delivery contents

Basic configuration of dry-running compressors is a ready to operate system which allows installation without a special foundation for sound-insulated units.

Complete with safety equipment, pressure control, after cooler, condensate drain valve, manometer, individually adjustable pressure reducer, ventilation for pressureless start as well as motor safety switch.



Technical data	
Construction type	single-stage
Number of cylinders	2
Suction capacity	200 l/min
Effective air delivery	130 l/min
Maximum pressure	8 Bar
Compressor speed	1450 U/min
Volume of the container	20 l
Motor	1,5 kW
Voltage	230 V
Frequenz	50 Hz
Protection class	IP 44
Isolation classe	F
Sound level	55 dB(A)
Weight	110 kg

YETI piston compressor

Art.-No. 484-1000



Sintering furnace Tabeo for Metal

30 single crowns or sintering discs

- Molybdenum-disilicide heating elements
- Sintering system, Ø 120mmx30mm; METAL (kit)
- Program control:
 - 7-Segment LED-
 - 4 stages
 - 9 program capacity
 - 4 fixed programs
- Shielding-gas supply with manual adjustment
- Timer function

Technical data	
Dimensions WxDxH	530 x 680 x 460mm
Heating-chamber height	92 mm
Heating-chamber capacity	1 tray Ø 120x 30 mm
Maximum temperature	1400°C
heating elements	4x MoSi2
Power max.	1600 W
Voltage range; frequency	220-240 V; 50/60 Hz
Maximum heating rate	40°C/min
Weight	80 kg



Sintering furnace Tabeo for Metal

Art.-No. 483-3000

Sintering furnace

Speed Sintering furnace for Zirconia

60 SINGLE CROWNS or SINTERING DISC



High-quality molybdenum-disilicide heating elements PRO

Program control

LCD-Display

4 stages

30 program capacity

Special functions

Service programs

A - Temperature control (only in conjunction with test-kit)

C - Purge heating chamber

E - Regenerate heating elements

Thermocouple PtRh-Pt, type S

Temperature accuracy at 1500°C +/- 3°C

Timer function

Technical information

Dimensions W/D/H) 390 x 790 x 500 mm

Max. heating-chamber capacity

2x Ø 120/30 mm

Maximum temperature

1650°C

Heating elements

4 x MoSi2

Power max.

3200 W

Voltage range / frequency

220 - 240 V, 50 / 60 Hz

heat-up rate up to

99 °C/min

Weight

60 kg

Speed Sintering furnace
for Zirconia

Art.-No. 483-4000

Sintering furnace Tabeo for Zirconium Oxide

- Molybdenum-disilicide heating elements

- Service programs

- A - Temperature control* (only in conjunction with test kit)

- C - Purge heating chamber

- E - Regenerate heating elements

- Program control

- 7-Segment LED

- 4 stages

- 9 program capacity

- Special functions

- Temperature accuracy at 1500°C +/- 3°C

- Timer function



Technical data

Dimensions WxDxH 400 x 600 x 400 mm Heating-chamber height 42 mm

Heating-chamber capacity 1 tray Ø 100x 30 mm

Maximum temperature 1650°C

Heating elements 4x MoSi2

Power max. 1500 W

Voltage range; frequency 220-240 V; 50/60 Hz

Maximum heating rate 25°C/min

Weight 55 kg



Sintering furnace Tabeo
for Zirconium Oxide

Art.-No. 483-1000

CAD/CAM Suction System



CAD/CAM Suction System Z1 CAM

Single Suction for CAM milling machines

- Z1 CAM with guaranteed motor lifetime of 1500 hours
- Z1 CAM for CAM milling machines
- Integrated Bluetooth module and Zubler suction system app for easily understandable operation and individual setting options
- Designed with filter bag or permanent filter system according to the field of application
- Replacement of filter and motor without tools

Suction Power	1200W
Guaranteed motor lifetime (time is achievable by replacing the carbon brushes)	5000 h
Type of filter system (dust collection)	Filter bag
Interface for external control unit gate input	v
Interface for milling machines and devices with 24V output /PLC	v
Bluetooth interface for individual settings per Android-APP	v
Adapter for exhaust air to the outside (optional)	v
Exhaust air filter grade H14 for dust category H (optional)	v
Activated charcoal exhaust air filter (optional)	v
Quick exchange of the motor (no tools required)	v
Front color/material selectable (optional)	v