

Catalog

PROFESSIONAL DENTAL SOLUTIONS SUPPLIER |

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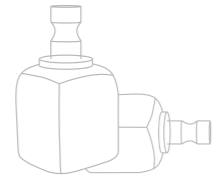
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DEPRAG (Zhengzhou) Dental Technology Co., Ltd.

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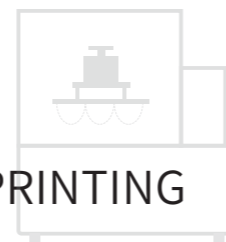
03

SINTERING FURNACE SERIES



04

SCANNING AND PRINTING

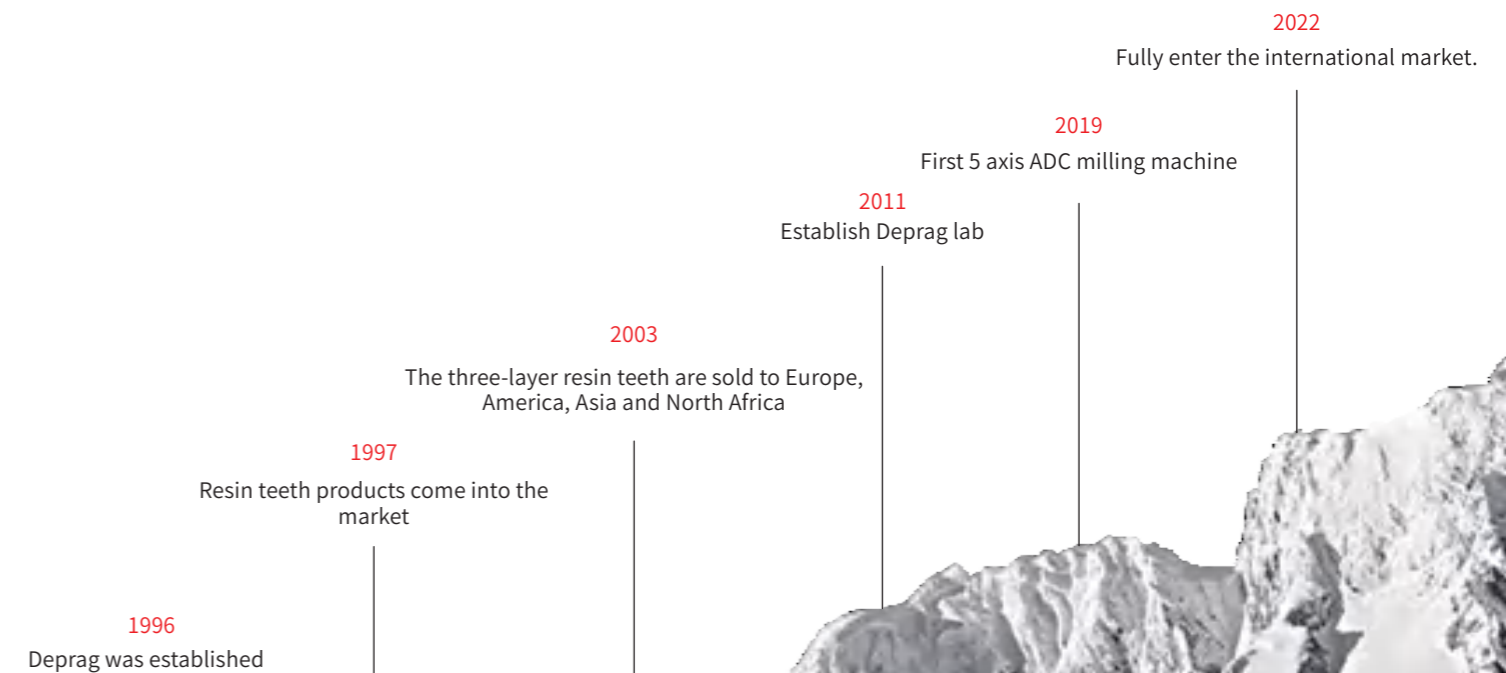


05

CONSUMABLES



- In 2022, Relying on the excellent performance of the products in the domestic market, we will try our best to enter the international market
- In 2019, we are the first company in China to launch a five axis automatic disc changing millinging machine.
- In 2011, DEPRAG dental lab was established as the test base of the company's dental products.



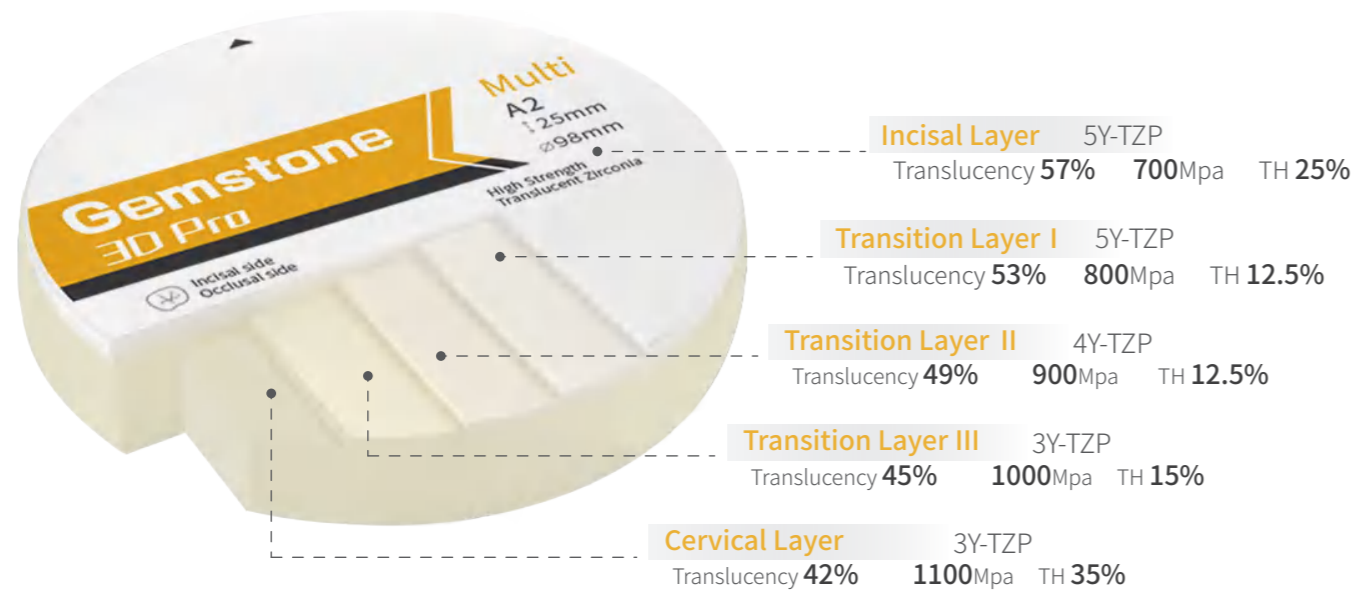


MATERIALS FOR CAD/CAM



Gemstone 3D Pro

Better natural shade gradient, better translucency and strength



- Nine layers gradient, natural color transition.
- Light transmissive gradient, enamel layer bionic gradient.
- Gradual strength, neck strength 1100Mpa.



Translucency: 42% to 57%

Strength: 700MPa-1100MPa

Sizes: 10mm/12mm/14mm/16mm/18mm/20mm/22mm/25mm

Shades: 16 VITA Classical Shades, 4 Bleach Shades



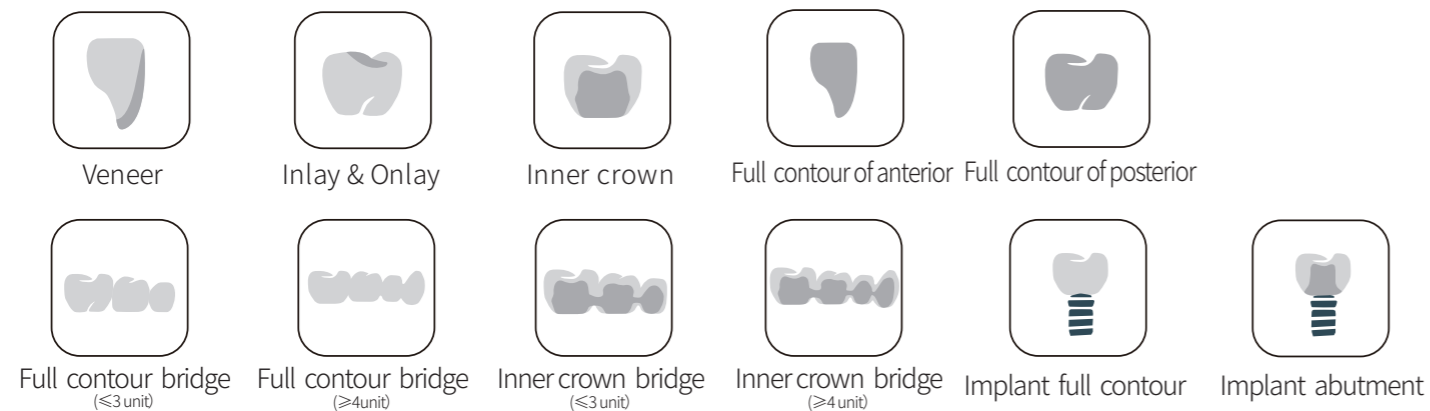
Physical Characteristics

Density after sintering	≥6.05g/cm ³
Fracture Toughness	≥5.0Mpa.m ^{1/2}
Flexural strength after sintering	(Hv10) 1250
Sintering Temperature	1500°C

Chemical Compositions

ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5%-8.0%
Al ₂ O ₃	<0.15%
Other Oxides	<0.5%

Indications



Digital work flow

Gemstone is one excellent materials, which can be used in DEPRAG digital work flow. From the initial intraoral scan right through to the final restoration, DEPRAG have validated workflows with equipment and materials for the whole process. Faster production times, higher quality, full technical and engineering support, through our dealers and ourselves, worldwide 24/7 service through us and our distributors.



Gemstone *SHT*

Multi Super high translucent multilayer zirconia

Disc system: 98mm 95mm 92*75mm

Translucency: 45%

Strength: 900MPa

Sizes : 10mm/12mm/14mm/16mm/18mm
20mm/22mm/25mm

Shades: 4 Bleach Shades 5 VITA Classical Shades



Gemstone *ST*

Multi Super translucent multilayer zirconia

Disc system: 98mm 95mm 92*75mm

Translucency: 42%

Strength: 1100MPa

Sizes : 10mm/12mm/14mm/16mm/18mm
20mm/22mm/25mm

Shades: 16 VITA Classical Shades



Color

Super high translucent colored zirconia

Disc system: 98mm 95mm 92*75mm

Translucency: 45%

Strength: 900MPa

Sizes : 10mm/12mm/14mm/16mm/18mm
20mm/22mm/25mm

Shades: 5 VITA Classical Shades



White

Super high translucent zirconia

Disc system: 98mm 95mm 92*75mm

Translucency: 46%

Strength: 1000MPa

Sizes : 10mm/12mm/14mm/16mm/18mm/
20mm/22mm/25mm

Shades: White



Color

Super translucent colored zirconia

Disc system: 98mm 95mm 92*75mm

Translucency: 42%

Strength: 1100MPa

Sizes : 10mm/12mm/14mm/16mm/18mm
20mm/22mm/25mm

Shades: 16 VITA Classical Shades



White

Super high translucent zirconia

Disc system: 98mm 95mm 92*75mm

Translucency: 46%

Strength: 1200MPa

Sizes : 10mm/12mm/14mm/16mm/18mm/
20mm/22mm/25mm

Shades: White

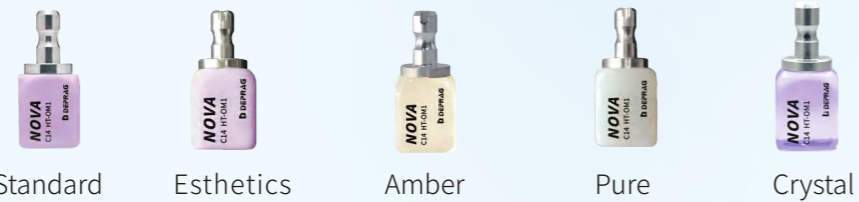


Density after sintering	≥6.08g/cm ³	≥6.08g/cm ³	≥6.08g/cm ³
Fracture Toughness	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}
Flexural strength after sintering	(Hv10) 1250	(Hv10) 1250	(Hv10) 1250
Sintering Temperature	1530°C	1530°C	1530°C
ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%	≥99%	≥99%
Y ₂ O ₃	7.0%-7.8%	7.0%-7.8%	7.0%-7.8%
Al ₂ O ₃	<0.15%	<0.15%	<0.15%
Other Oxides	<0.5%	<0.5%	<0.15%

Density after sintering	≥6.09g/cm ³	≥6.08g/cm ³	≥6.09g/cm ³
Fracture Toughness	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}	≥5.0Mpa.m ^{1/2}
Flexural strength after sintering	(Hv10) 1250	(Hv10) 1250	(Hv10) 1250
Sintering Temperature	1530°C	1530°C	1530°C
ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%	≥99%	≥99%
Y ₂ O ₃	4.5%-6.0%	4.5%-6.0%	4.5%-6.0%
Al ₂ O ₃	<0.15%	<0.15%	<0.15%
Other Oxides	<0.5%	<0.5%	<0.15%

NOVA

Enables efficient CAD/CAM processes and precise repair



Model and Specifications					
	Standard	Esthetics	Amber	Pure	Crystal
Bending strength	480MPa	400MPa	430MPa	460MPa	430MPa
Translucency	★★	★★★★	★★★★☆	★★★★	★★★★★
Size	C14 18*13*15mm 40*15*14mm	C14	C14	C14	C14
Shade	HT: A1, A2, A3, A3.5, A4, B1, B2, C1 LT: A1, A2, A3, A3.5, A4, B1, B2, C1, C2, D2	HT: HT-OM1, HT-OM2 MT: MT-OM1, MT-OM2 LT: LT-OM2, LT-OM3	HT-OM2	HT-OM1	HT-OM1
Sintering temperature	850°C	827°C/850°C	827°C	827°C	827°C
Scope of application					
Crown					
Natural color anterior crown	✓	—	—	—	—
Whitening anterior crown	—	✓	✓	✓	✓
Posterior crown	✓	—	—	—	—
Inlay & Onlay					
Inlay	✓	—	—	—	—
Onlay	✓	—	—	—	—
Veneer					
Natural color veneer	✓	—	—	—	—
Whitening veneer (opaque needs)	—	✓	○	✓	○
Whitening veneer (High aesthetic needs)	—	○	✓	○	✓
Ultra-thin veneer	✓ (0.25mm-1mm)	○ (0.3mm-1mm)	✓ (0.28mm-1mm)	✓ (0.26mm-1mm)	✓ (0.28mm-1mm)
Bridge					
Natural color anterior teeth bridge	✓	—	—	—	—
Whitening anterior teeth bridge	—	○	○	✓	○
Posterior teeth bridge	○	—	—	○	—

Please consult our technical instructors for details of use.

* ✓ Recommend ○ Allowed — Not Recommend

Standard – NOVA

- ✓ Super high bending strength 480Mpa
- ✓ VITA 16 Colors Standard
- ✓ Efficient crystallization and sintering in just 4-7 min



Recommended areas of application:

- Anterior crown
- Posterior crown
- Teeth bridge
- Inlay
- Onlay
- Veneer (Milling thickness:0.25mm-1mm)

Esthetics – NOVA

- ✓ Bending strength of 400Mpa
- ✓ Different opaque capacities available
- ✓ Efficient crystallization and sintering in just 4-7 min



Recommended areas of application:

- Anterior crown
- Whitening Veneers (Milling thickness:0.3mm-1mm)

Amber – NOVA



- ✓ Stronger bending strength of 430Mpa
- ✓ Micro-interlocking structure
- ✓ Efficient crystallization and sintering in just 4-7 min

Recommended areas of application:

- Anterior crown
- Whitening Veneers (Milling thickness:0.28mm-1mm)

Pure – NOVA

- ✓ Ultra-high Bending strength 460Mpa
- ✓ An enhanced composite block
- ✓ Efficient crystallisation and sintering in just 4-7 min

Recommended areas of application:

- Anterior crown
- Whitening Veneers (Milling thickness:0.26mm-1mm)



Crystal – NOVA



- ✓ Bending strength up to 430Mpa
- ✓ Excellent semi-transparent effect
- ✓ Efficient crystallization and sintering in just 4-7 min

Recommended areas of application:

- Anterior crown
- Whitening Veneers (Milling thickness:0.28mm-1mm)

SYNTHETIC RESIN TEETH

A better smile comes from better teeth

Verisi *Esthetic synthetic resin teeth*

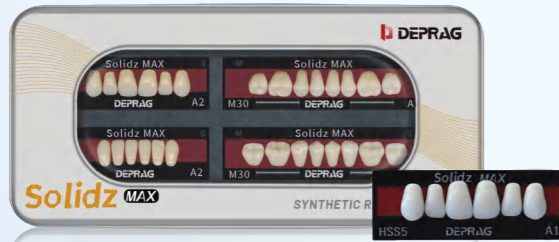
- ✓ Five layer natural color rendering
Double gradual change of color penetration, perfect reproduction of natural tooth appearance.
- ✓ Personalized aesthetic design
Full form design concept to achieve personalized aesthetic effect.
- ✓ More functionality
High strength, not easy to wear, better chewing power.



Solidz *Durable and beautiful synthetic resin teeth*

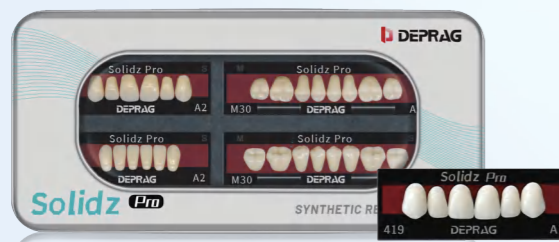
- ✓ High hardness and wear resistance of nano inorganic filler.
- ✓ The enamel layer is thickened, which is more wear-resistant and stain resistant.
- ✓ Semi anatomical shape, higher chewing efficiency.

• Solidz **MAX**



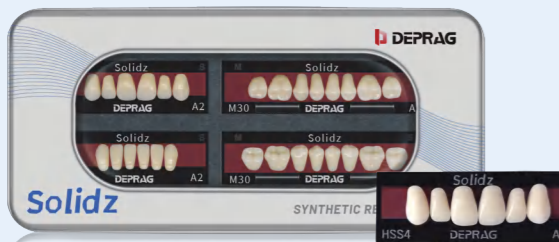
- ✓ Realistic shape, higher aesthetics
- ✓ High hardness, more durable
- ✓ Pre-wear design to reduce the difficulty of jaw adjustment

• Solidz **Pro**



- ✓ Aesthetic and morphologically adaptable anterior teeth
- ✓ More efficient buccal focused occlusal row of teeth
- ✓ Good health effects on the alveolar ridge

• Solidz



- ✓ Anti deformation and micro crack
- ✓ High density and wear resistance
- ✓ More comfortable aesthetic form

Euphon *More natural and beautiful synthetic resin teeth*

- ✓ Multi layer color rendering, good aesthetic effect.
- ✓ The appearance is closer to natural teeth.
- ✓ Mainstream form design, wide application range.

• Euphon **MAX**

- ✓ Natural appearance of real teeth
- ✓ Effective restoration of masticatory function
- ✓ Efficient and convenient tooth removal



• Euphon **Pro**

- ✓ Front teeth look closer to natural teeth
- ✓ Posterior bite design is more comfortable to use
- ✓ Comfortable anti dyeing



• Euphon

- ✓ High applicability of mass form
- ✓ Synthetic fillers are more durable for daily use
- ✓ Strong functional recovery and stable use



MILLING MACHINE SERIES

02



D52-ADC

Dental milling machine with automatic disc changer.

Millable material

- Zirconia
- Plastics | Wax
- Composite
- CoCr

- Remote monitoring system
- RFID disc intelligent identification module

- Automatic changing tools module
- Automatic calibration module

- Automatic disc changer

· Loniser module

· 5-Axis

· Automatic tooth removal module



Structure parameters	
Basic construction	Aluminium
Number of axes	5+1
Linear axes X-/Y-/Z-axis	Precision ball screws
	High alloy steel precision guide
	Accuracy $\pm 0.005\text{mm}$
Rotary axis A-axis	+30°~-90°
Rotary axis B-axis	360°
Tool	10
Spindle	
Speed	60,000 rpm
Power	500 W
Positioning Repositioning accuracy	0.01/ 0.005 mm
Collet	$\Phi 4$ mm
Size And Weight	
Dimension	850 × 780 × 835 mm
Footing Size	570 × 480 mm
Weight	230 kg

Holder Types

- Standard: Half-open blank holder (C-CLAMP)
- Standard: Block holder
- Optional: Half-open blank holder
(C-CLAMP with plastic secondary clamps)
- Optional: Round closed clamp holder



Base Cabinet (Optional)

W52

The 5-axis milling machine for dry and wet machining.

Millable material

- Zirconia
- Glass ceramic
- Plastics | Wax
- Composite
- Premill
- Titanium
- Cocr

Structure parameters	
Basic construction	Aluminium
Number of axes	5
Rotary axis A-axis	+30°~-90°
Rotary axis B-axis	360°
Tool	18
Air supply pressure	>0.5 MPa
Air flow	>90 L/min
Water tank capacity	10L
Spindle	
Speed	60,000 rpm
Power	1.8kW
Positioning Repositioning accuracy	0.01/ 0.005 mm
Collet	Φ6 mm
Cooling method	Water cooling
Size And Weight	
Dimension	525 × 700 × 784 mm
Weight	150 kg

Remote monitoring system.

Automatic calibration.

Automatic tool changing by 18 tools.

Tool lifetime monitoring system.

Integrated base cabinet.

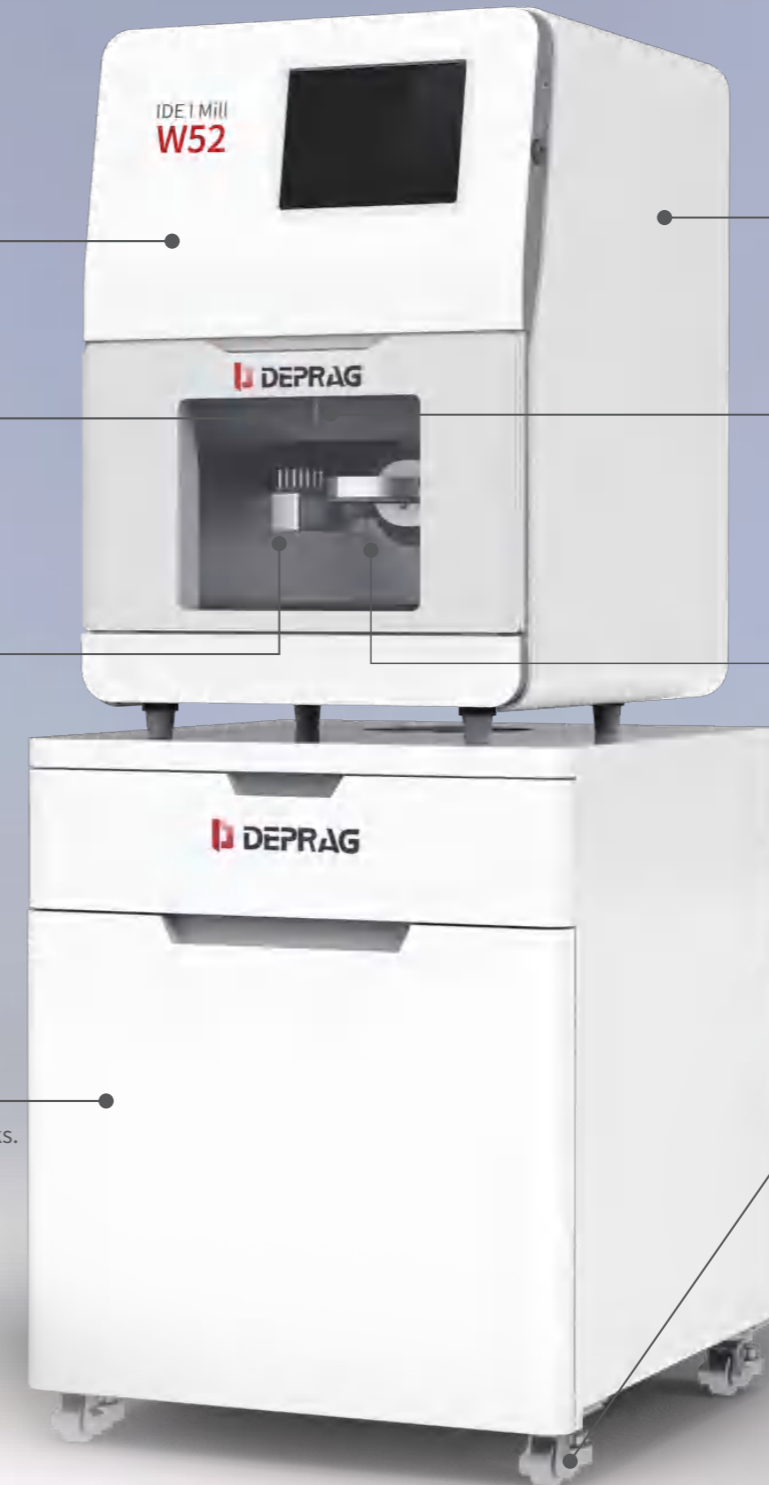
*Internally accommodates wet-cut filter modules and water tanks.

Base Cabinet (Standard)



Wet-milling filter modules.

Two kinds of coolant tanks are integrated for easy switching between water and oil.



One-piece cast aluminum structure.

1.8kW 62mm diameter spindle with water cooling.

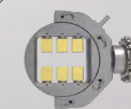
A variety of easily switchable holders.

With wheels, easy to move.

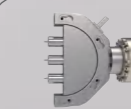
Holder Types (Standard)



Half-open blank holder(C-CLAMP)



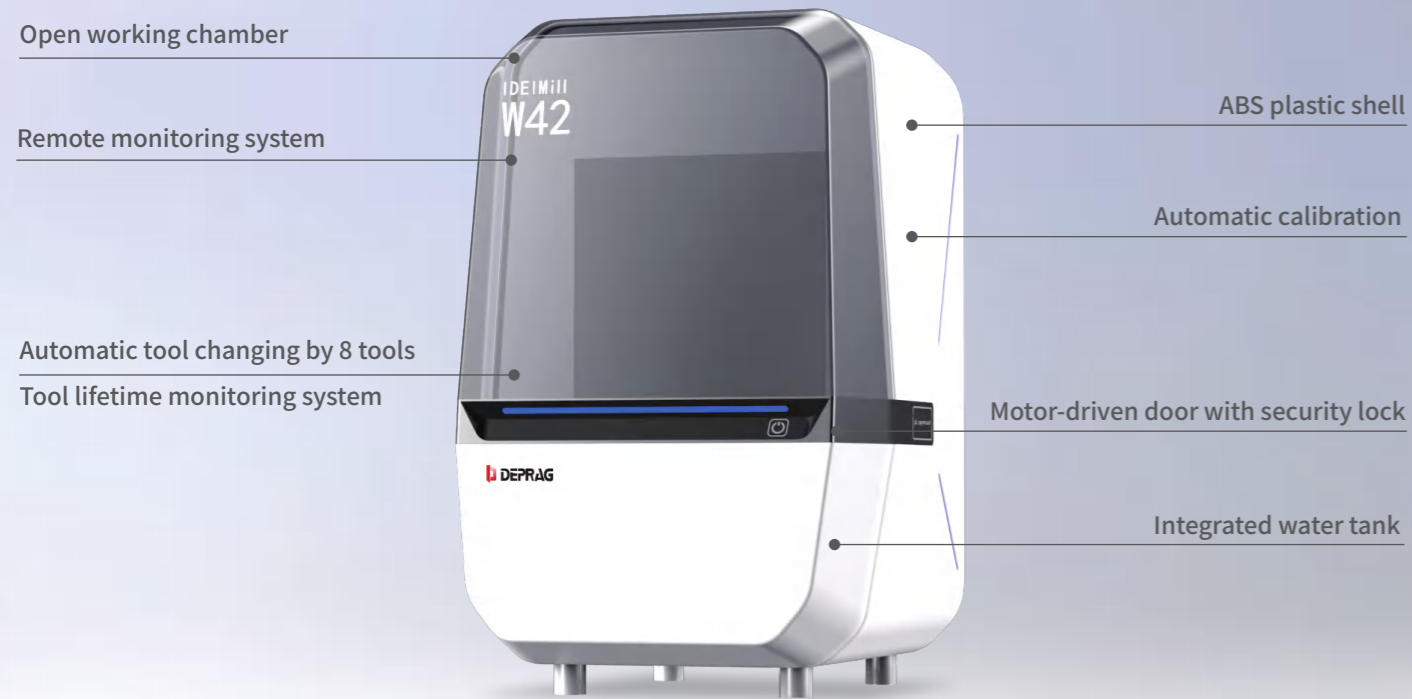
Block holder



Premill Abutment holder

W42

The 4-axis milling machine for wet machining.

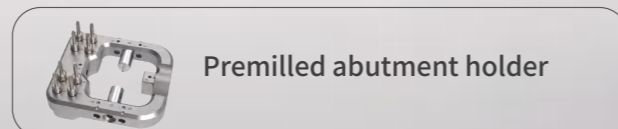
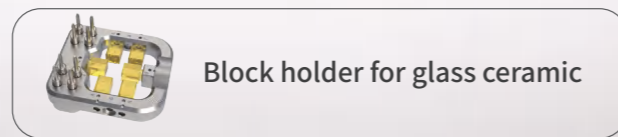


Structure parameters	
Basic construction	Aluminium
Number of axes	4
Rotary axis A-axis	360°
Tool	8
Air supply pressure	>0.5 MPa
Air flow	>110 L/min
Water tank capacity	3L
Spindle	
Speed	60,000 rpm
Power	500W
Positioning Repositioning accuracy	0.01/ 0.005 mm
Collet	Φ4 mm
Cooling method	Air cooling
Size And Weight	
Dimension	440 × 550 × 685 mm
Weight	75 kg

Millable material

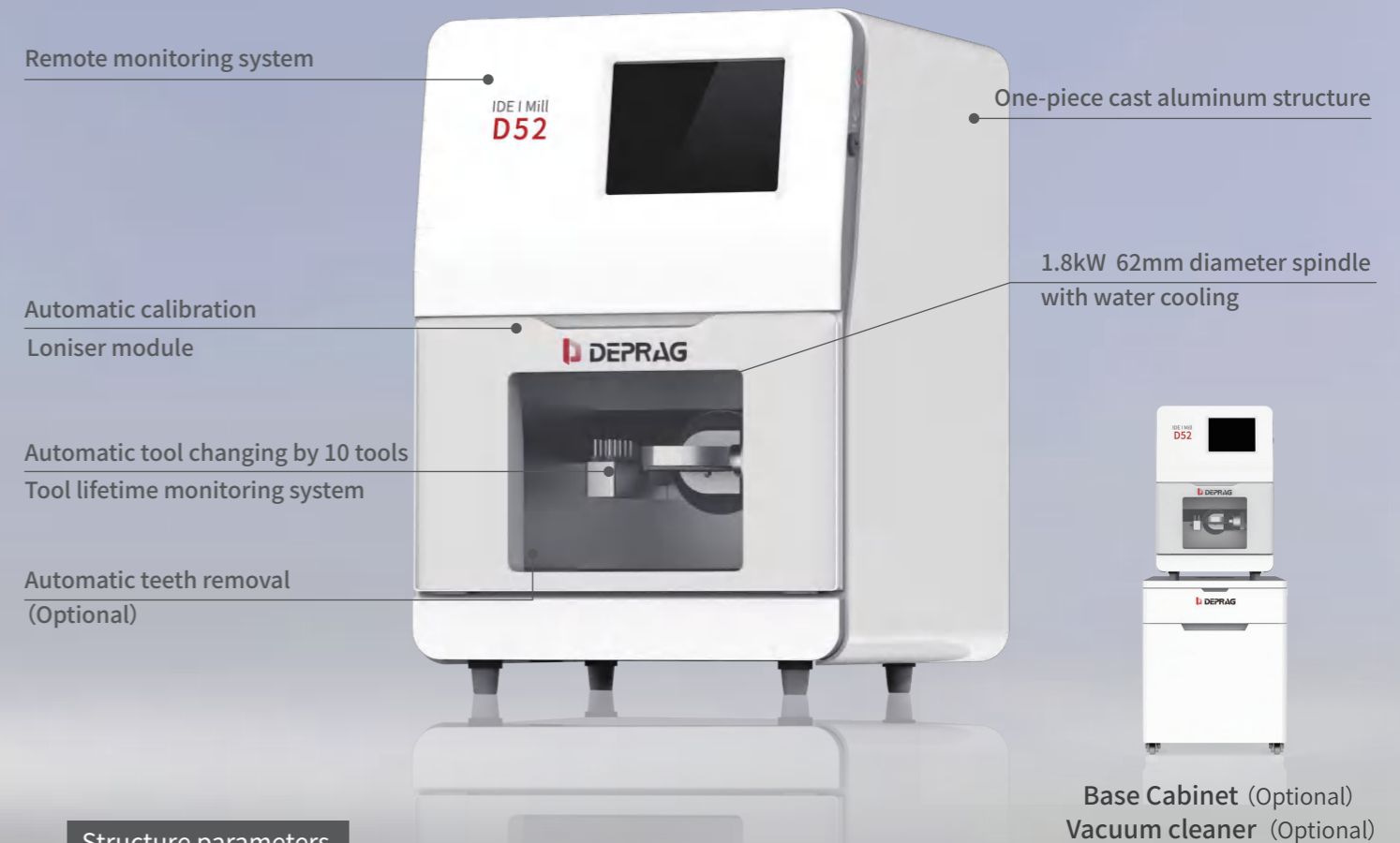
- Glass ceramic
- Composite
- Premill

Holder Types (Standard)



D52

The 5-axis milling machine for dry machining.

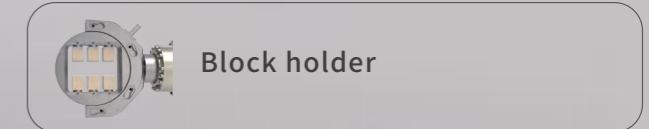
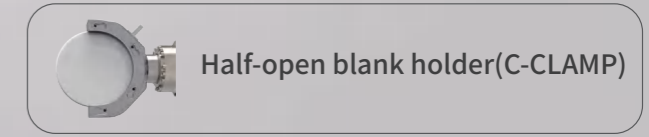


Structure parameters	
Basic construction	Aluminium
Number of axes	5
Rotary axis A-axis	+30°~-90°
Rotary axis B-axis	360°
Tool	10
Air supply pressure	>0.5 MPa
Air flow	>90 L/min
Spindle	
Speed	60,000 rpm
Power	1.8kW
Positioning Repositioning accuracy	0.01/ 0.005 mm
Collet	Φ6 mm
Cooling method	Water cooling
Size And Weight	
Dimension	525 × 700 × 784mm
Weight	150 kg

Millable material

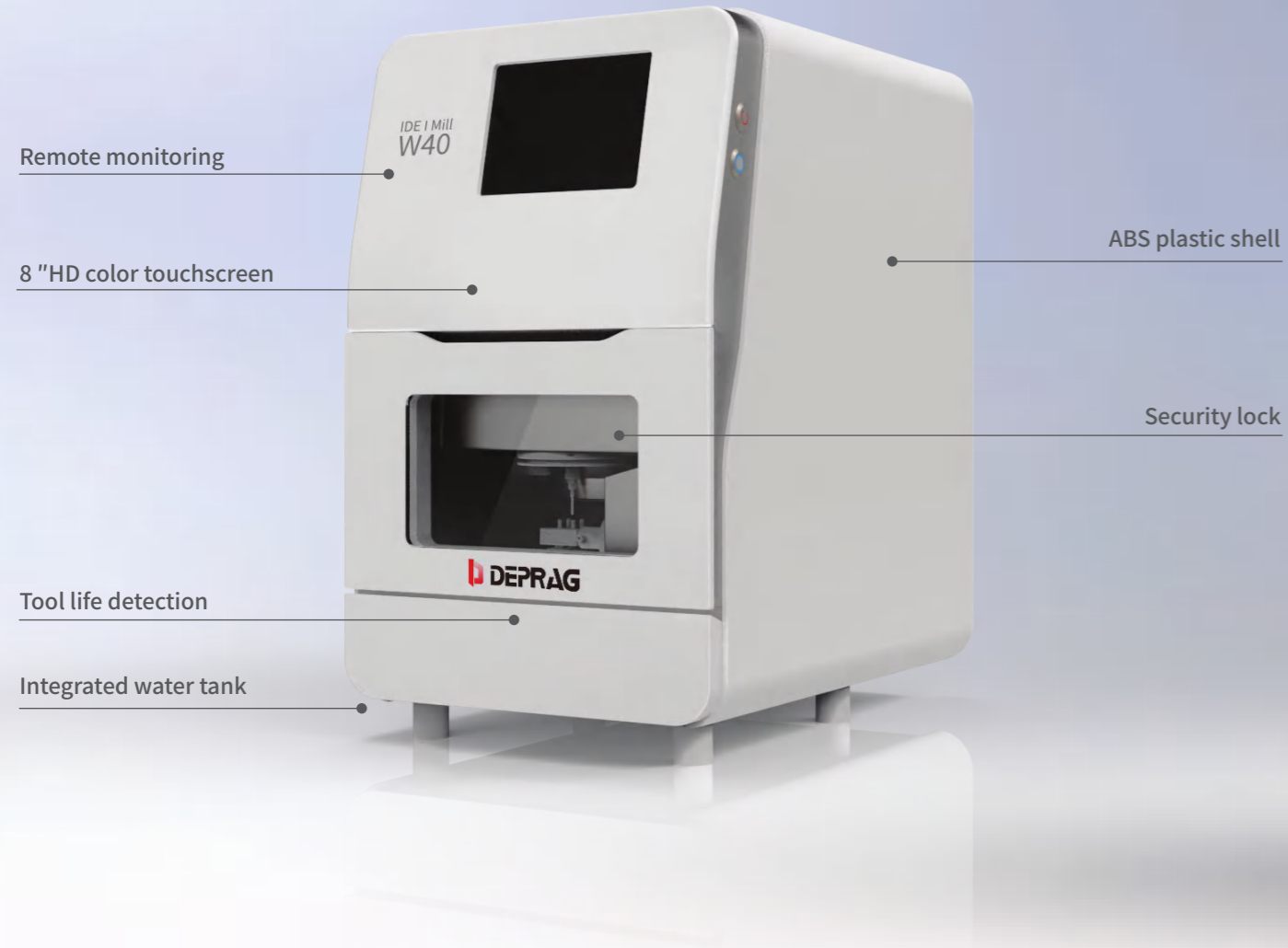
- Zirconia
- Plastics | Wax
- Composite
- Cocr

Holder Types (Standard)



W40

Dental wet milling machine.

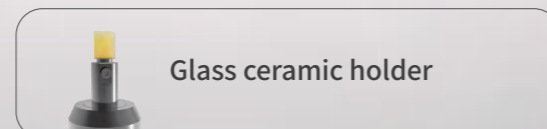


Structure parameters	
Basic construction	Aluminium
Number of axes	4
Rotary axis A-axis	360°
Tool	4
Spindle	
Speed	60,000 rpm
Power	500W
Positioning Repositioning accuracy	0.01/ 0.005 mm
Collet	Φ4 mm
Cooling method	Air cooling
Size And Weight	
Dimension	410 × 550 × 650 mm
Weight	75 kg

Millable material

- Glass ceramic
- Composite

Holder Types (Standard)



03 SINTERING FURNACE SERIES



S7

Zirconia Fast Sintering Furnace.

Alternative

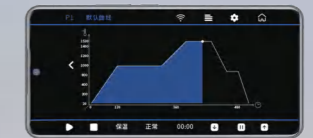
3 high-purity double-spiral molybdenum silicide rods.
4 high-purity double-spiral silicon carbide rods.

Modern minimalist design.

Wifi upgrade new program.



Simultaneous sintering of up to 100 units.
Φ100 mm combustion chamber.



Optional: mobile phone remote control
(only for Android system).

7" HD color touchscreen.

Working status indicator.

- Green for running
- Blue for cooling
- Red for fault
- Orange for idle

Electronic touch switch.

New program running interface.



Technical data	
Dimensions (W x D x H)	338 mm x 520 mm x 751 mm
Weight	approx. 60 kg
Power supply	220 V/ 50-60 Hz
Max. output	3000W
Max. sintering temperature	1600 °C
Combustion chamber	Φ100 mm
Combustion chamber capacity	0.95 L
Capacity	up to 100 zirconia units



Silicon carbide rods



Molybdenum silicide rod



Sintering tray/Zirconia beads/Tweezers



PTCR

P7

Porcelain furnace.

Apply to

- Sintering of porcelain powder
- Sintering of glass-creamic
- Sintering of paste and glaze



Technical data	
Dimensions (W x D x H)	282 mm x 460 mm x 332 mm
Weight	approx. 20 kg
Voltage	220 V/ 50-60 Hz
Max. sintering temperature	1200 °C
Heating Rate	≤120 °C/min
Temperature Accuracy	±1 °C
Max. output	1500W
Max.Vacuum	100 pa (99.9%)
Combustion chamber	Φ90 mm
Combustion chamber capacity	0.72 L
Accessories	Vacuum pump *1, Sinter base *1, Honeycomb plate *1, Nails bag *1, Fuse *2 Tool Kit *1, Instruction manual *1

CG7

Crystallization furnace.

Apply to

- Sintering of glass-creamic
- Sintering of paste and glaze



Technical data	
Dimensions (W x D x H)	282 mm x 460 mm x 332 mm
Weight	approx. 20 kg
Voltage	220 V/ 50-60 Hz
Max. sintering temperature	1200 °C
Heating Rate	≤120 °C/min
Temperature Accuracy	±1 °C
Max. output	1500W
Combustion chamber	Φ90 mm
Combustion chamber capacity	0.72 L
Accessories	Sinter base *1, Honeycomb plate *1, Nails bag *1, Fuse *2 Tool Kit *1, Instruction manual *1

04 SCANNING AND PRINTING

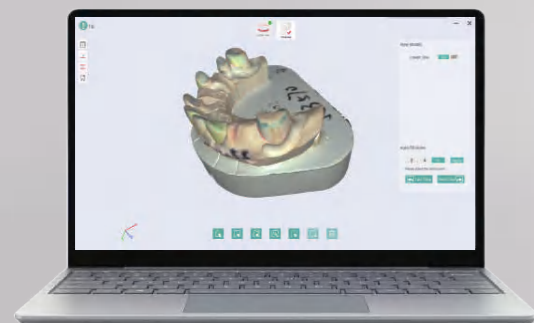
DS7 Desktop scanner

Without post-processing time, faster and more realistic reproduction of the model form.



Parameter	
Resolution of camera	1.6MP * 2
Output Format	STL; PLY; OBJ
Accuracy	8 μm
Power supply	AC110-240V, 50HZ
Weight	7kg
Size	370*280*430mm
Full arch Scan Speed	10 seconds
Interface	USB 3.0
Light source	LED blue light
Power supply	AC110-220V,50HZ
Tray Scan	YES
Color & Texture	YES
Intelligent scan	YES
Exocad Intergration	YES

Computer Configuration	MINIMUM
Operating System	Windows 10 (64-bit)
CPU	Intel Core i5 8th Gen or above
Memory	16GB
Hard Disc	512G
GPU	NVIDIA GTX 1050 4GB DDR3
USB Port	USB 3.0



PL7

Integrated light source LCD 3D printer.

Fixed Restoration

- Temporary Crown
- Inlay
- Veneer
- Temporary Crown Bridge

Implants

- Tooth-supported Surgical Guide
- Bone-supported Surgical Guide
- Temporary Denture
- Mucosa-supported Surgical Guide

Orthodontics

- Record keeping dental model
- Water-washed orthodontic dental model



Parameter	
Compatible Resin	405nm wavelength photosensitive resin, compatible with third-party resins
Printing Size	192*120*100mm
Resolution	3840*2400pixels
Touch Screen	5 inch color screen
Anti-Aliasing	8x Anti-Aliasing
Z axis type	Double linear guide + ball screw
printing speed	1-4S/layer, 60mm/h
Print layer thickness	0.025mm-0.1mm
XY axis accuracy	50μm
Rated power	250W
Equipment Size	432*292*456mm
Equipment weight	19KG



Light Curing & Cleaning Integrated Machine

OES CONSUMABLES

Super Vision Stain & Glaze

Replicating the beauty of natural teeth

✓ ALL IN ONE

Suitable for a wide range of ceramic restorative materials such as zirconia, glass-ceramic, and epitaxial porcelain, one set of products can meet all external staining needs.

✓ Easy and time-saving

The Super Vision Stain&Glaze top coat colors are easy to configure, and with DEPRAG's one-stop service, technicians can learn how to use it quickly and easily to produce restorations with excellent aesthetic results.

✓ Lifelike aesthetics

Super Vision Stain&Glaze contains two types of products, 2D paste that precisely mimics the color characteristics of natural teeth and 3D paste that finely reproduces the surface form of natural teeth, thus achieving both aesthetic and morphological bionic effects.



AESTHETICS



GUM



PMMA DISC



Product	Shades Available	Thickness	Indications
Monolayer	VITA 16 Shades	98*10/12/14/16/18 20/22/25/30mm	Digital removable denture
Multilayer			Temporary crowns and bridges
Pink	A/B/C/D		Implant surgical guide
Clear	Clear		Removable structures for dentures
			Removable structures for therapeutic restorations (night guards, bite splints or occlusal splints)

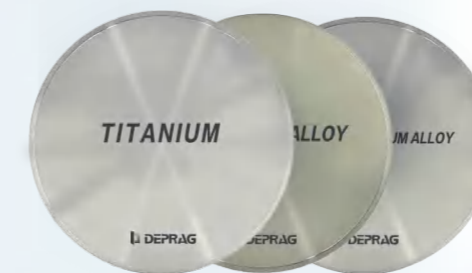
PEEK DISC

Color	Wide	Thickness	Indications
Natural	98/95 92*75mm	10/12/14/16/18 20/22/25mm	Crown, Bridge
White			Crown, Bridge, Implant fixture, Abutment
Yellow			Crown, Bridge
Pink			Denture base

Color	Density (g/cm ³)	Flexure Strength (Mpa)	Flexural Modulus (Gpa)	Impact Strength (KJ/m ²)
Natural	1.32	163	4	199
White	1.51	210	5.3	146
Yellow	1.51	205	5	148
Pink	1.35	196	4.4	153



METAL DISC



Product	Thickness	Indications
Pure Titanium DISC	98*10/12/14/16/18 20/22/25mm	Pure titanium porcelain teeth
Titanium Alloy DISC		Pure titanium full crowns
Cobalt-chromium Alloy DISC		Stents/Steel Supports/Implants
		Clasps/Bases/Crowns/Fixed bridge

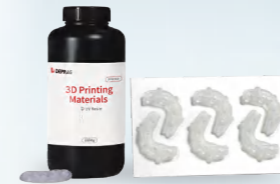
Implant consumables

- Intraoral Scanbody
- Pre-milled Blank
- Ti-Base
- Model Scanbody
- Analog
- Screw
- Driver (Lab&Clinical)



Model resin

- ✓ High transparency
- ✓ Abrasion resistance
- ✓ No residue
- ✓ High precision
- ✓ Low Shrinkage
- ✓ Efficient



Surgical Guide



Restoration Model Series

Sintering consumables

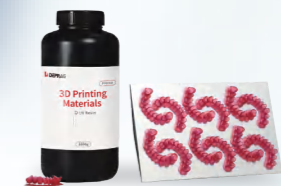
- Sintering tray
- Sintered nail
 - Metal nail
 - Ceramic nail



- Crucible



Ortho Model Series



Casting Model

Firing Paste

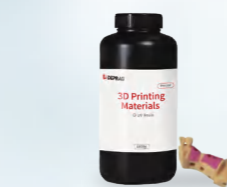
- ✓ No residue
- ✓ Rapid peel
- ✓ Strong Support

Fixable materials:

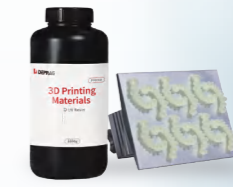
Glass ceramic, Zirconia, Resin, Metal, etc.



Easy Stick



Artificial Gingiva



Temporary Restoration