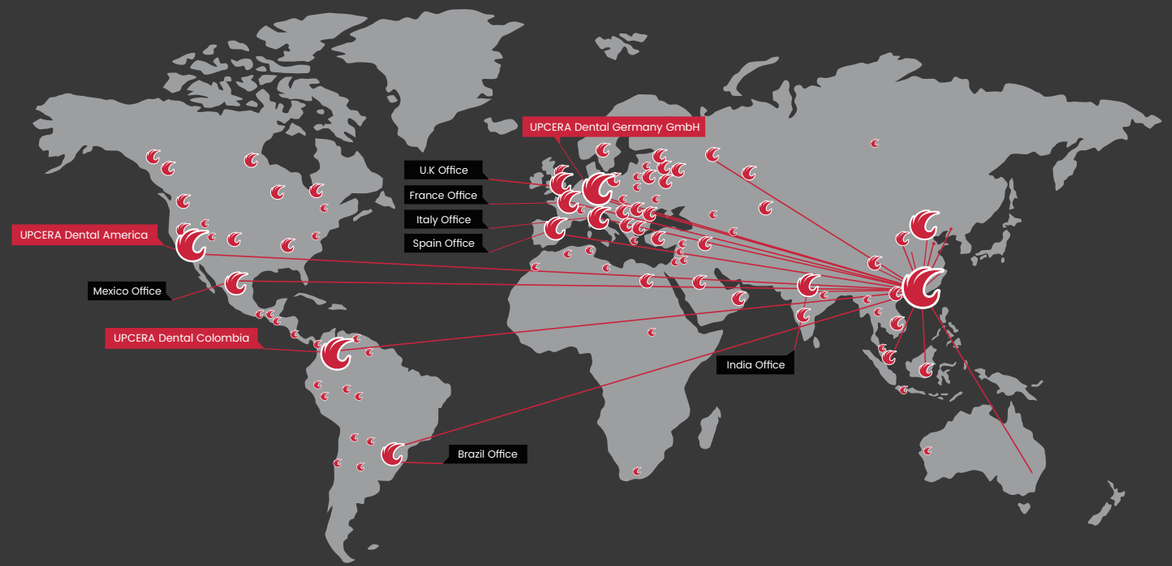
Going out to the world,
and becoming a leading force
in the development of global dentistry.



UPCERA Dental America Inc.

13100 Alondra, Unit 105
Cerritos,CA 90703, United States

(888)342-3549
salesweb@upceradentalamerica.com
upceradentalamerica.com

Follow us on:

Upcera Dental America
upceradentalinc
Upcera America

Facebook
Instagram
Youtube

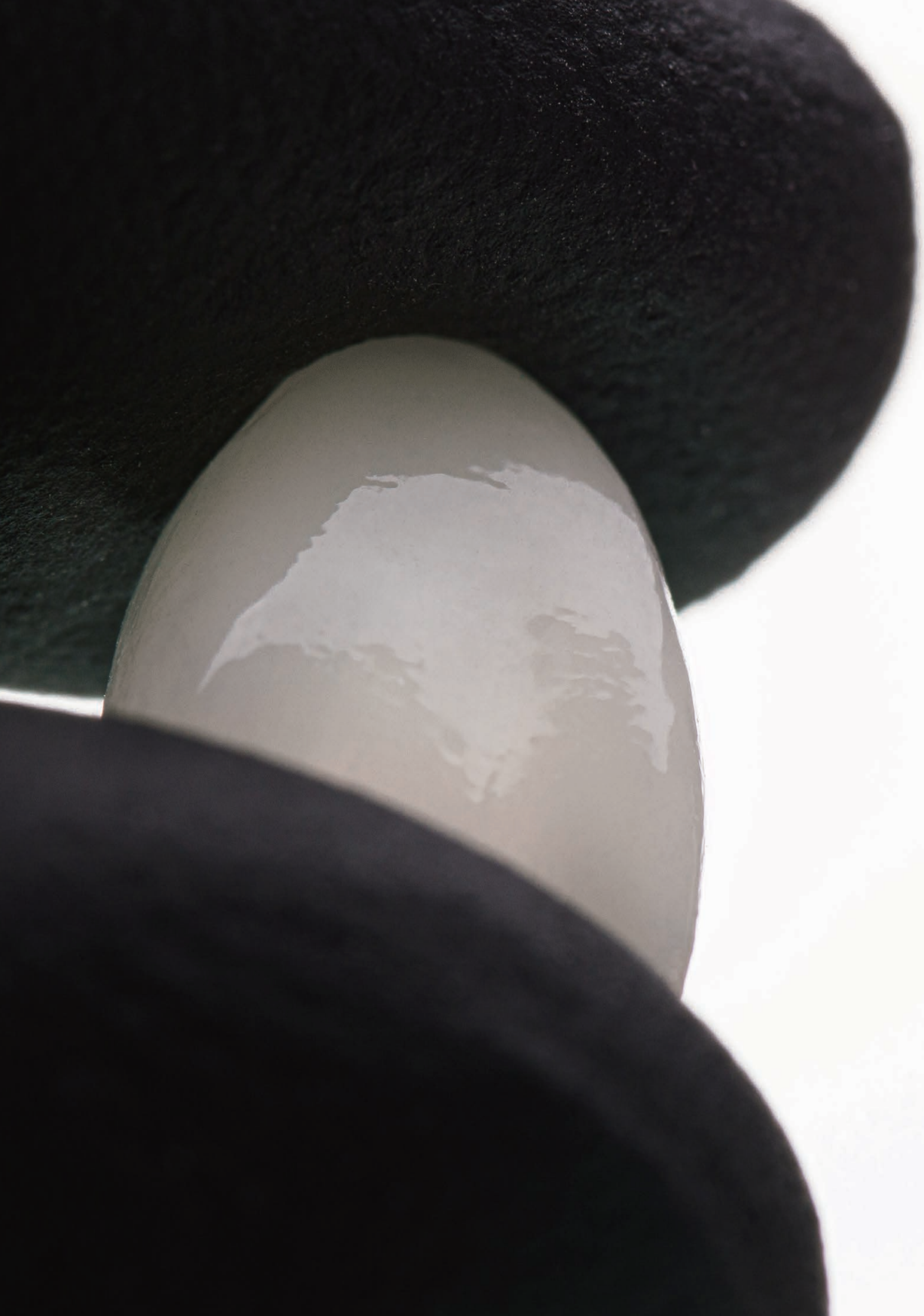
CE 0197
Copyright©Upcera No.2026_US Rev.01
1.7.1.0319

UPCERA



PRODUCT CATALOG

RELIABLE MATERIALS EXPERT



CONTENTS

About UPCERA 03

UPCERA All Ceramic Family

Zirconia Family 05
Duo Multilayer 13
Explore Series 17
HT White 23
ST Series 25
TT-ONE Series 30
TT Series 35
Fast Sintering Program 39
Hyramic 41

Dental Consumables

CAD/CAM Wax 44
Realism Glaze Paste 45
Artouch 47
PMMA 53
(Dental) Titanium Alloy 55
supraCXN Ceramic Etchant 57
supraCXN Stick 59
supraCXN EsCem 60
DFK Binocular Loupe 61
Grinding and Polishing Kits 63
Laboratory Handpiece 65

Digital Dental Solutions

FLNTScan R2 Intraoral Scanner 69
FLNTScan LU1 3D Scanner 71
FLNTMill-A51 Milling Machine 75
FLNTMill-A52 Milling Machine 77
FLNTMill-A52W Milling Machine 79
FLNTMill-A52DW Milling Machine 81
FLNTMill-B42 Milling Machine 83
FLNTMill-B52 Milling Machine 84
FLNTMill-E52 Hybrid Milling Machine 85
FLNTMill-M52 AirFree Milling Machine 87
FLNTOven-GT1 Sintering Furnace 89
FLNTMill-GT1 Pro Sintering Furnace 90
FLNTMill-A7+ Sintering Furnace 91
FLNTOven-A7+ Pro Sintering Furnace 92
UPCERA HiFi Series 93
FLNTSaug-R-407-1 Vacuum Cleaner 97
FLNTSaug-R-412 Vacuum Cleaner 97

Better Materials Better Life

Upcera is dedicated to R&D and innovation in material technology. Its products focus on dental applications for clinics and laboratories, offering systematic dental ceramics solutions. Today, the company's business covers 110 countries and regions worldwide, in Asia, North America, and Europe, and is committed to providing reliable and affordable dental restoration solutions for global dental professionals.

25+
Years of Dedicated R&D

110+
Countries and Regions

4.4 M+
Restorations
(22 Units Per Disc)

2000 M+
Number of Dental Ceramics Sold

Providing Reliable And Affordable Dental Restoration Solutions For Dental Professionals Around The World.

ALL CERAMIC FAMILY

For All Your Dental Needs



UPCERA Zirconia Family

	DUO MULTILAYER	EXPLORE HYBRID	EXPLORE FUNCTIONAL	EXPLORE ESTHETIC	TT WHITE	TT MULTILAYER	TT-ONE WHITE	TT-ONE PRE-SHADED	TT-ONE MULTILAYER	HT WHITE	ST WHITE	ST PRE-SHADED	ST MULTILAYER
RAW MATERIAL	4Y-PSZ & 5Y-PSZ	4Y-PSZ & 5Y-PSZ	3Y-PSZ & 4Y-PSZ	4Y-PSZ & 5Y-PSZ	5Y-PSZ	5Y-PSZ	4Y-PSZ	4Y-PSZ	4Y-PSZ	3Y-TZP-A	3Y-TZP	3Y-TZP	3Y-TZP
TRANSLUCENCY	45% - 48%	43% - 46.6%	43% - 46.6%	47% - 48.8%	49%	49%	47%	47%	47%	39%	43%	43%	43%
STRENGTH*	850~1200 MPa	1027~1300 MPa	1027~1300 MPa	727~1000 MPa	600 MPa	600 MPa	1000 MPa	1000 MPa	1000 MPa	1300 MPa	1300 MPa	1300 MPa	1300 MPa
SHADES	A1 A2 A3 A3.5 A4 B1 B2 B3 C1 C2 C3 D2 D3 D4 BL1 BL2 BL3 BL4	A1 A2 A3 B1 B2 B3 C1 C2 D2 BL3	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 BL1 BL2 BL3 BL4	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 BL1 BL2 BL3 BL4	White	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4	White	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 BL1 BL2	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4	White	White	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 OM1 OM2 OM3	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4

*Test results following ISO 6872

Indication Guide

Suitable for All Indications

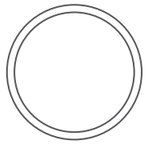
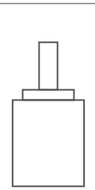
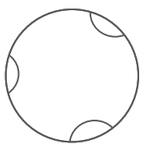
Indications	DUO MULTILAYER	EXPLORE HYBRID	EXPLORE FUNCTIONAL	EXPLORE ESTHETIC	TT WHITE	TT MULTILAYER	TT-ONE WHITE	TT-ONE PRE-SHADED	TT-ONE MULTILAYER	HT WHITE	ST WHITE	ST PRE-SHADED	ST MULTILAYER
Inlay, Onlay, Veneer	√	√	√	√	√	√	√	√	√	√	√	√	√
Substructure anterior and posterior crown	★	√	√	√	★	√	★	★	√	★	★	★	★
Fully anatomical anterior and posterior crown	★	√	★	★	√	★	√	√	★	√	√	√	√
Max. 3-unit fully anatomical anterior bridges (with no more than one pontic)*	★	√	√	★	√	★	√	√	√	√	√	√	√
Max. 3-unit fully anatomical posterior bridges (with no more than one pontic)*	★	√	★	★	√	★	√	√	★	√	√	√	★
Max. 3-unit substructures (with no more than one pontic)*	★	√	★	√	√	√	√	★	★	★	★	★	★
Fully anatomical multi-unit bridges (≥4-unit, with no more than 2 contiguous pontics)*	★	√	★	×	×	×	√	√	★	√	√	√	√
Substructures multi-unit bridges(≥4-unit, with no more than 2 contiguous pontics)*	★	√	★	×	×	×	★	★	★	★	★	★	★
Implant-supported single unit	★	★	★	★	√	√	√	√	★	√	√	√	√
Implant-supported multi-unit/fixed complete dental prosthesis*	★	★	★	×	×	×	√	√	√	√	√	√	√

★ Highly recommended √ Available for this indication × Not indicated

* Based on the design principles of fixed restorations.
Due to the regulation, these indications may be different in your region

Specification

All Popular Systems Available

System	Specification(mm)	Package	DUO Multilayer	Explore Functional	Explore Esthetic	Explore Hybrid	TT White	TT Multilayer	TT-ONE White	TT-ONE Pre-shaded	TT-ONE Multilayer	HT White	ST White	ST Pre-shaded	ST Multilayer
 Open CAD/CAM System	D98 x 10 (stepless)	1pc/box					●		●	●		●	●	●	
	D98 x 12 (step & stepless)	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D98 x 14 (step & stepless)	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D98 x 16 (step & stepless)	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D98 x 18 (step & stepless)	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D98 x 20 (step & stepless)	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D98 x 22 (step & stepless)	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D98 x 25 (step &stepless)	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D98 x 30 (step & stepless)	1pc/box	●			●							●	●	
 Compatible with Cerec in lab (Sirona) System	20 x 14 x 15	12pcs/box										●	●	●	
	20 x 19 x 15	10pcs/box		●	●						●	●	●	●	
	40 x 14 x 15	8pcs/box										●	●	●	
	40 x 19 x 15	6pcs/box		●	●						●	●	●	●	
	55 x 19 x 15	5pcs/box		●	●						●	●	●	●	
	65 x 25 x 22	4pcs/box		●	●						●	●	●	●	
	85 x 40 x 22	2pcs/box										●	●	●	
 Compatible with Zirkonzahn® CAD/CAM System	D95 x 10	1pc/box										●	●	●	
	D95 x 12	1pc/box					●		●	●		●	●	●	
	D95 x 14	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D95 x 16	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D95 x 18	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D95 x 20	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D95 x 22	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●
	D95 x 25	1pc/box	●	●	●		●	●	●	●	●	●	●	●	●

Duo Multilayer

Mastering Monolithic Style

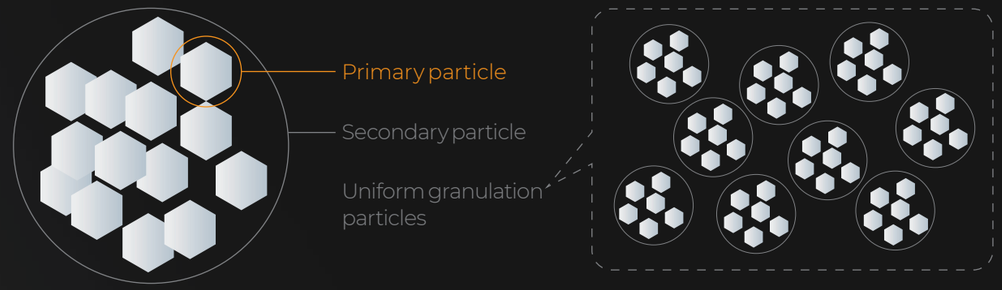
DUO embodies a holistic approach to dental restorative materials, seamlessly integrating strength, aesthetics, efficiency, and versatility. Its foundational principles resonate with the product's name, "DUO," symbolizing a steadfast commitment to excellence in contemporary restorative dentistry. With an impressive flexural strength of 850MPa to 1200MPa and translucency ranging from 45%-48%, DUO exemplifies the ideal fusion of durability and visual appeal. This allows dental professionals to create exquisite restorations that meet the highest standards of functionality and beauty, ensuring exceptional outcomes for patients.



UPD Technology
Lays the Foundation of High Quality

SINOCERA Uniform Particle Dispersion (UPD) Technology is the key to the uniform dispersion of powders and controlled defects. The state-of-the-art zirconia powder produced by this technology innovatively collaborates with UPCERA's advanced blank manufacturing processes, contributing to the high-quality DUO.

Excellent Consistency and Stability



Balance of Strength and Aesthetics

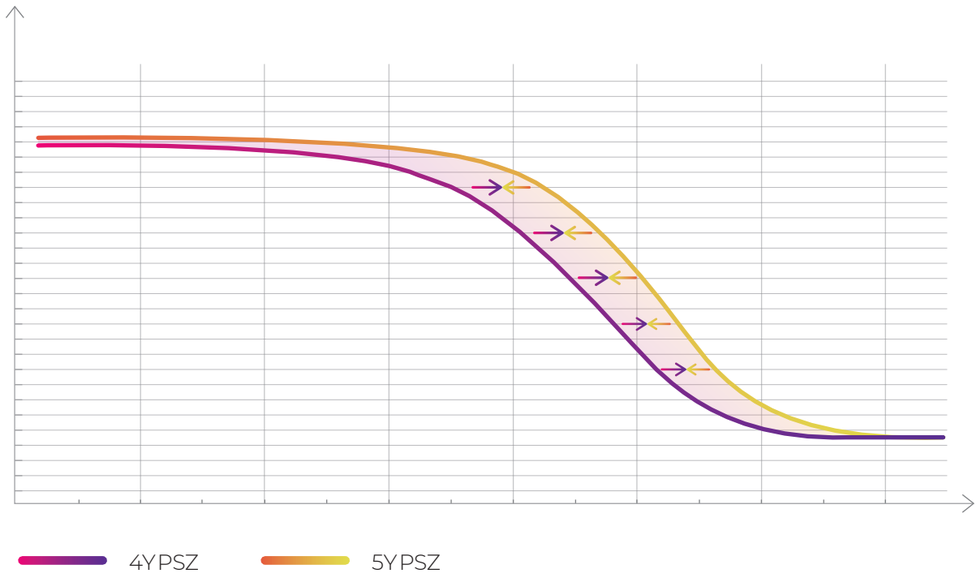


850 MPa
48% Translucency

1200 MPa
45% Translucency

Reduced Deformation and Enhanced Fitting Accuracy

The new powder technology adjusts the sintering activity of 4Y and 5Y particles, ensuring consistent sintering results and reducing deformation.



Versatility in Application and Adaptability


Onlay/Inlay


Veneer


Crown


Substructure Crown


3-unit Monolithic Bridge


3-unit Substructures

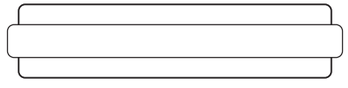

Multi-unit Monolithic Bridge(≥4-unit)


Substructures Multi-unit Bridge(≥4-unit)


Implant-supported Single Unit

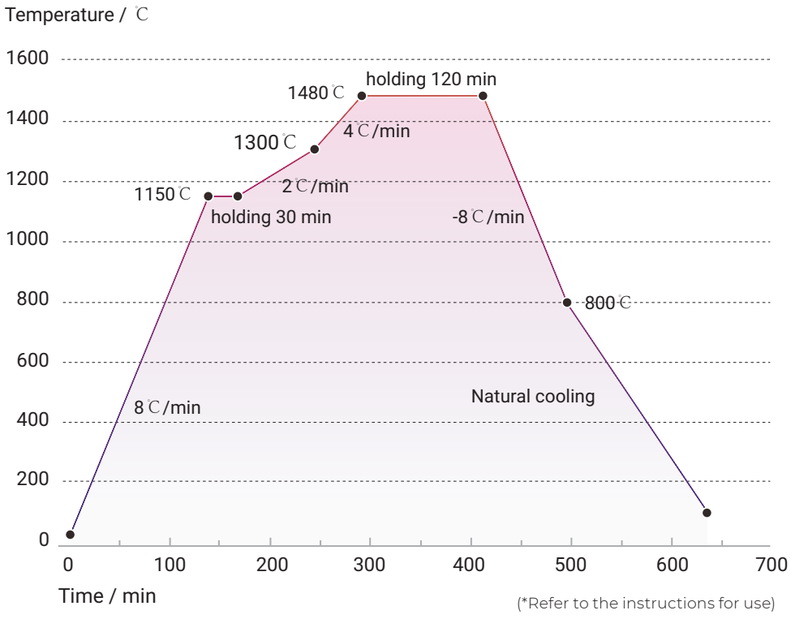

Implant-supported Multi-unit/Fixed Complete Dental Prosthesis

Specifications



D98X12 D98X14 D98X16 D98X18
D98X20 D98X22 D98X25 D98X30

Sintering Curve



(*Refer to the instructions for use)

*Sintering temperatures are recommendations. If necessary, carry out a trial sintering cycle and adapt the sintering temperatures or times as needed.

Explore Series

- **EXPLORE FUNCTIONAL**
- **EXPLORE ESTHETIC**
- **EXPLORE HYBRID**

The Upcera Explore Series is an innovative zirconia that strikes the perfect balance between strength and translucency. Designed to create natural-looking restorations in less time, the Explore line simplifies your workflow and enhances the profitability of your laboratory. Give Explore a try and experience the difference.

CE 0197 FDA



Physical Characteristics	Explore Hybrid	Explore Functional	Explore Esthetic
Density after sintering	≥6.0g/cm^3	≥6.0g/cm^3	≥6.0g/cm^3
CTE* (25-500°C)	(10.5±0.5) x10^{-6}K^{-1}	(10.5±0.5) x10^{-6}K^{-1}	(10.5±0.5) x10^{-6}K^{-1}
Chemical solubility after sintering	<100µg/cm^2	<100µg/cm^2	<100µg/cm^2
Radioactivity	≤1.0Bq/g	≤1.0Bq/g	≤1.0Bq/g
Sintering temperature	1480°C	1480°C	1480°C
Chemical Composition			
$ZrO_2 + HfO_2$	86.3-94.2%	86.3-94.2%	86.3%-94.2%
Y_2O_3	5.8%-9.7%	5.8%-9.7%	5.8%-9.7%
Al_2O_3	<0.5%	<0.5%	<0.5%
Fe_2O_3	<0.5%	<0.5%	<0.5%
Er_2O_3	<2.0%	<2.0%	<2.0%
Others oxides	<0.5%	<0.5%	<0.5%

*Linear thermal expansion

Explore Hybrid

This product combines function and aesthetics, offering a simple and efficient workflow by providing ample depth for soft tissue and allowing the placement of dentition to take advantage of the chroma and translucency gradient. Effortlessly create natural-looking full arch restorations.



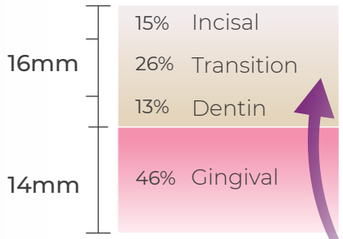


Strength
1027-1300 MPa

Translucency
43-46.6%

Optimum Indications

- Full-arch restorations

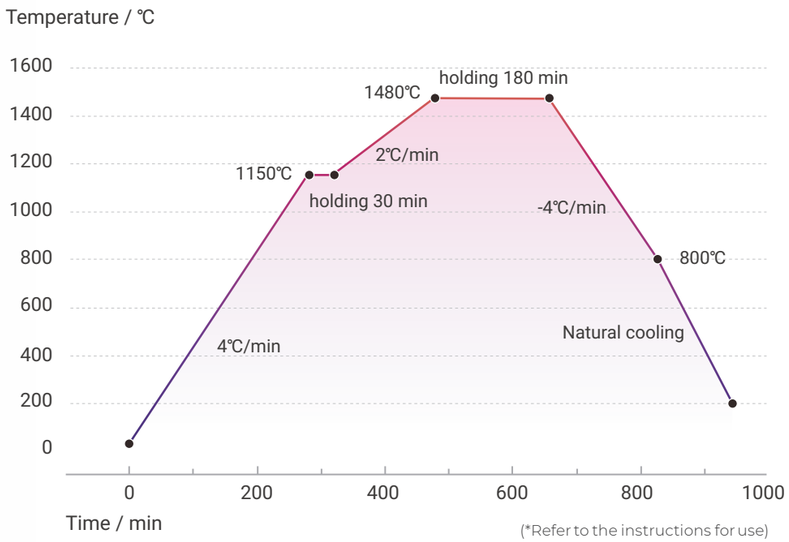




Shades



Sintering program



(*Refer to the instructions for use)

Explore Functional

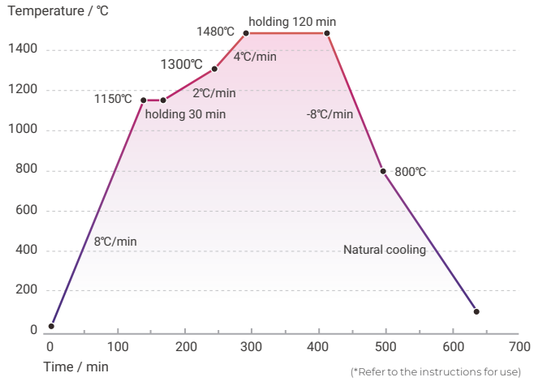
Our most popular zirconia, Explore Functional, delivers a seamless balance of chroma, translucency, and strength. Combining exceptional translucency with high strength, Explore Functional is user-friendly and an excellent choice for a wide range of indications.



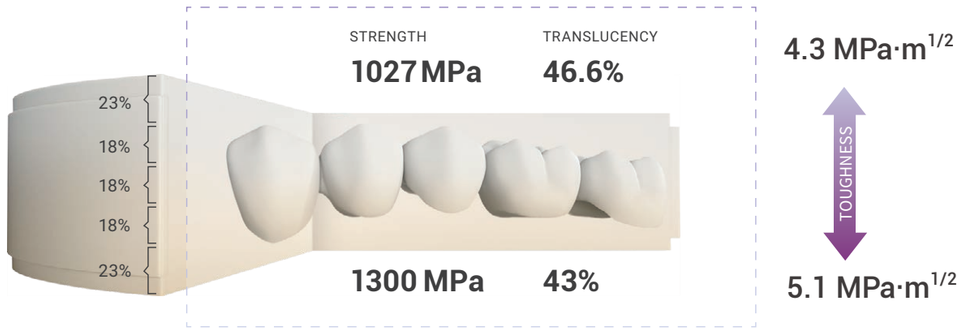
Shades



Sintering program



(*Refer to the instructions for use)



Explore Esthetic

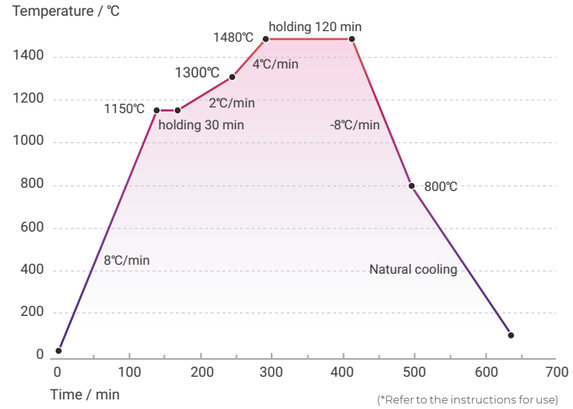
Explore Esthetic provides exceptional translucency, making it suitable for anterior restorations with higher aesthetic requirements. This multilayer zirconia has a seamless gradient strength, translucency, and chroma.



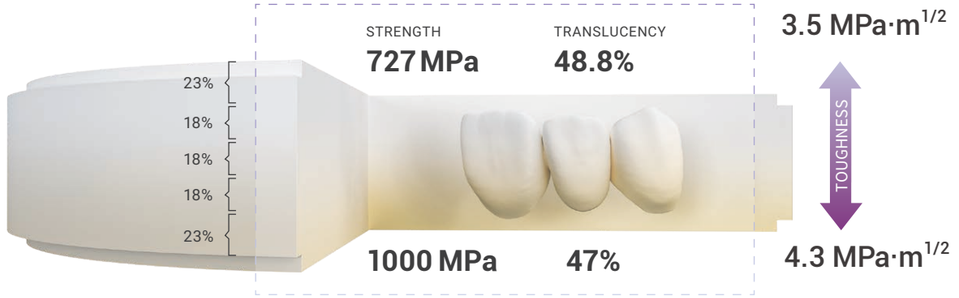
Shades



Sintering program



(*Refer to the instructions for use)



HT White

UPCERA HT White, made of 3Y-TZP, is a high strength zirconia blank used for monolithic or anatomically reduced anterior restorations and framework bridges with porcelain build-up.

- Ideal for coping and framework
- Ultra-high strength, reduces the fracture risk

CE 0197 FDA



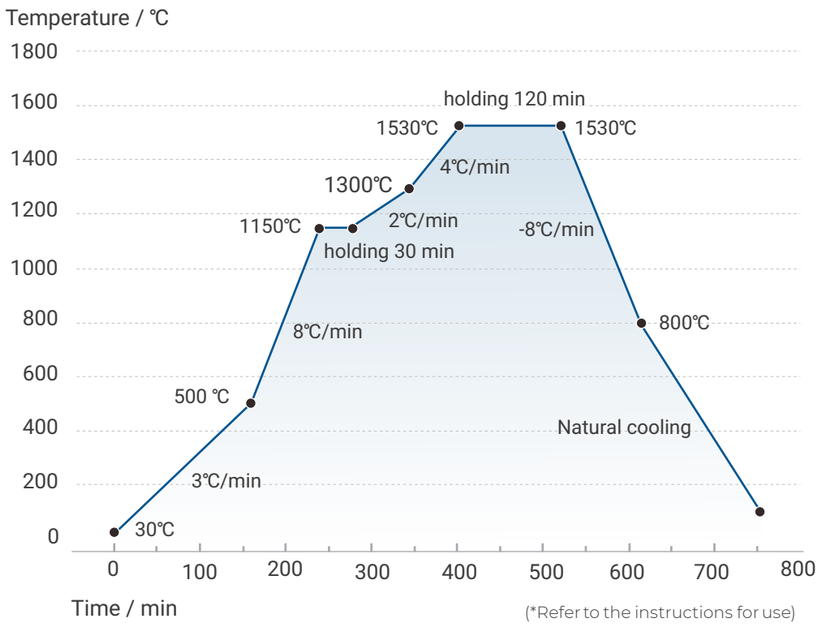
Translucency
39%

Strength
1300 MPa

System

Open CAD/CAM System,
Compatible with Zirkonzahn® CAD/CAM System,
Compatible with Cerec in lab (Sirona) System

Sintering program



(*Refer to the instructions for use)

Physical Characteristics

Density after sintering	>6.02g/cm³
CTE* (25-500°C)	(10.5±0.5) x10⁻⁶K⁻¹
Chemical solubility after sintering	<100μg/cm²
Radioactivity	≤1.0Bq/g
Sintering temperature	1530°C

*Linear thermal expansion

Chemical Composition

$ZrO_2 + HfO_2 + Y_2O_3$	≥99%
Y_2O_3	4.5%-6%
Al_2O_3	≤0.5%
Other oxides	≤0.5%



ST Series

- **ST WHITE**
- **ST PRE-SHADED**
- **ST MULTILAYER**

Upcera ST is one of the most classic lines of pre-shaded zirconia, offering versatility and reliability. Today, it comes in three options: white, mono-shade, and multilayer, giving you flexibility for various applications. With an impressive flexural strength of 1300 MPa, Upcera ST is a true "general-purpose" product, perfect for a wide range of needs.

CE 0197 FDA



Physical Characteristics	ST White	ST Pre-shaded	ST Multilayer
Density after sintering	>6.02 g/cm^3	>6.02 g/cm^3	>6.02 g/cm^3
CTE* (25-500°C)	(10.5±0.5) x10^{-6}K^{-1}	(10.5±0.5) x10^{-6}K^{-1}	(10.5±0.5) x10^{-6}K^{-1}
Chemical solubility after sintering	<100 µg/cm^2	<100 µg/cm^2	<100 µg/cm^2
Radioactivity	≤1.0 Bq/g	≤1.0 Bq/g	≤1.0B q/g
Sintering temperature	1530°C	1530°C	1530°C
Chemical Composition			
Fe_2O_3		<0.3%	<0.3%
Er_2O_3	-	<1%	<1%
ZrO_2+ HfO_2+Y_2O_3	≥99%	≥99%	≥99%
Y_2O_3	4.5%-6%	4.5%-5.5%	4.5%-5.5%
Al_2O_3	≤0.5%	<0.5%	<0.5%
Other oxides	≤0.5%	<0.5%	<0.5%

*Linear thermal expansion

ST White

ST White zirconia allows for individual infiltration and staining techniques, enabling the creation of highly aesthetic restorations. It is versatile and suitable for a wide range of applications.



Strength
1300 MPa

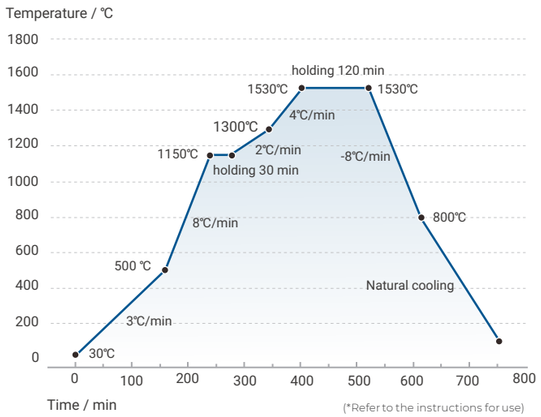
Translucency
43%

System

Open CAD/CAM System,
Compatible with Zirkonzahn® CAD/CAM System,
Compatible with Cerec in lab (Sirona) System



Sintering program



(*Refer to the instructions for use)

ST Pre-shaded

Available in a variety of shades, ST pre-shaded zirconia can meet your needs for most restorations. With optimal stability and outstanding anti-aging performance, it is a good choice for labs.



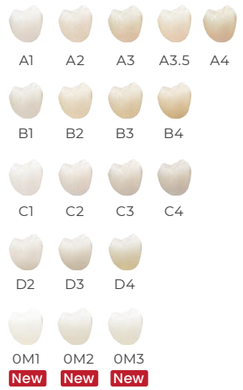
Strength
1300 MPa

Translucency
43%

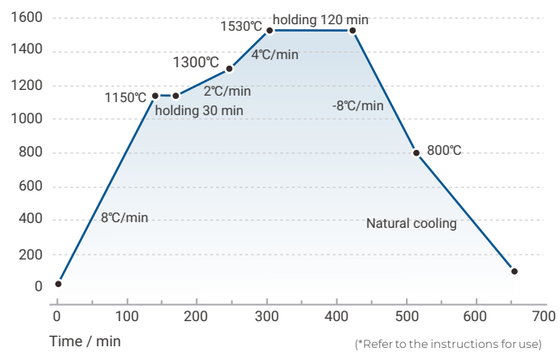
System

Open CAD/CAM System,
Compatible with Zirkonzahn® CAD/CAM System,
Compatible with Cerec in lab (Sirona) System

Shades



Sintering program



(*Refer to the instructions for use)

ST Multilayer

This pre-shaded multilayer zirconia provides consistent chroma and excellent machinability, making ST-ML an ideal choice for full-contour bridge restorations.



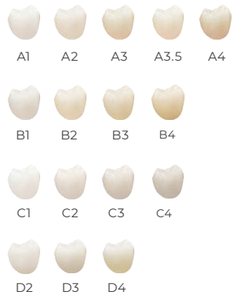
Strength
1300 MPa

Translucency
43%

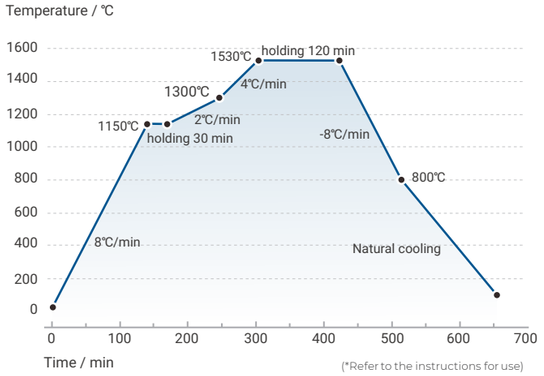
System

Open CAD/CAM System,
Compatible with Zirkonzahn® CAD/CAM System

Shades



Sintering program



(*Refer to the instructions for use)

TT-ONE Series

- **TT-ONE WHITE**
- **TT-ONE PRE-SHADED**
- **TT-ONE MULTILAYER**

UPCERA TT-ONE zirconia is popular worldwide because it perfectly combines high strength and excellent translucency for all indications.

CE 0197 FDA





Physical Characteristics	TT-ONE White	TT-ONE Pre-shaded	TT-ONE Multilayer
Density after sintering	>6.0 g/cm^3	>6.0 g/cm^3	>6.0 g/cm^3
CTE* (25-500℃)	(10.5±0.5) x10^{-6}K^{-1}	(10.5±0.5) x10^{-6}K^{-1}	(10.5±0.5) x10^{-6}K^{-1}
Chemical solubility after sintering	<100 μg/cm^2	<100 μg/cm^2	<100 μg/cm^2
Radioactivity	≤1.0 Bq/g	≤1.0 Bq/g	≤1.0 Bq/g
Sintering temperature	1480 ℃	1480 ℃	1450 ℃
Chemical Composition			
$ZrO_2 + HfO_2$	86.3%-94.2%	86.3%-94.2%	86.3%-94.2%
Y_2O_3	5.8%-9.7%	5.8%-9.7%	5.8%-9.7%
Al_2O_3	<0.5%	<0.5%	<0.5%
Fe_2O_3	-	<0.5%	<0.5%
Er_2O_3	-	<2.0%	<2.0%
Other oxides	<0.5%	<0.5%	<0.5%

*Linear thermal expansion

TT-ONE White

TT-ONE White combines high strength and excellent translucency for all indications.





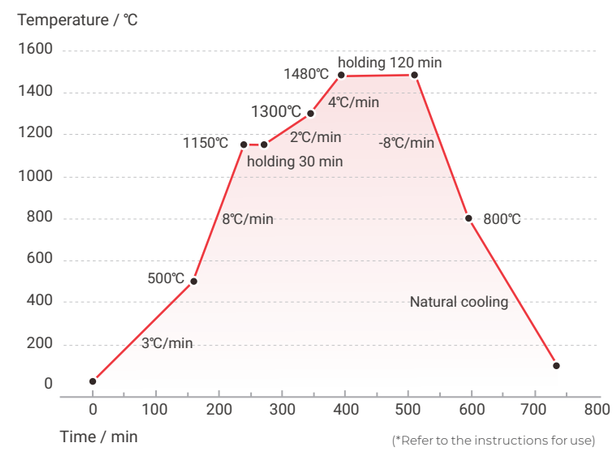
Strength
1000 MPa

Translucency
47%

System Available

Open CAD/CAM System, Compatible with Zirkonzahn® CAD/CAM System

Sintering program



(*Refer to the instructions for use)

TT-ONE Pre-shaded

This pre-shaded zirconia is available in 16 classical shades and 2 bleach shades. It is user-friendly, providing excellent stability and efficiency.



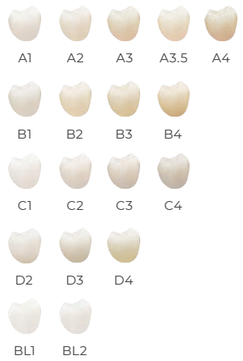
Strength
1000 MPa

Translucency
47%

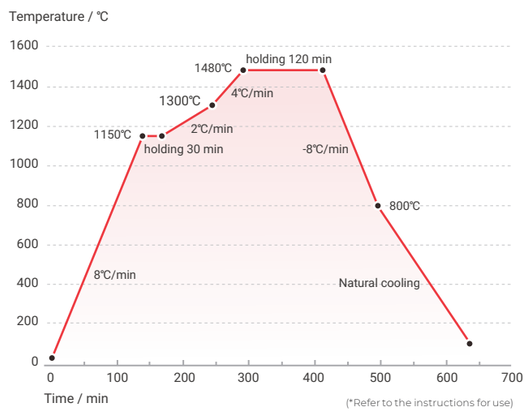
System

Open CAD/CAM System,
Compatible with Zirkonzahn® CAD/CAM System

Shades



Sintering program



(*Refer to the instructions for use)

TT-ONE Multilayer

This multilayer zirconia offers high strength and excellent aesthetic effects with no lines and is available in 16 classical shades and 2 bleach shades.



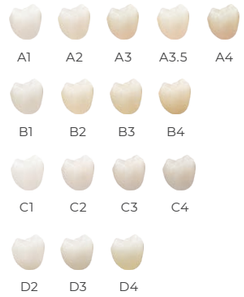
Strength
1000 MPa

Translucency
47%

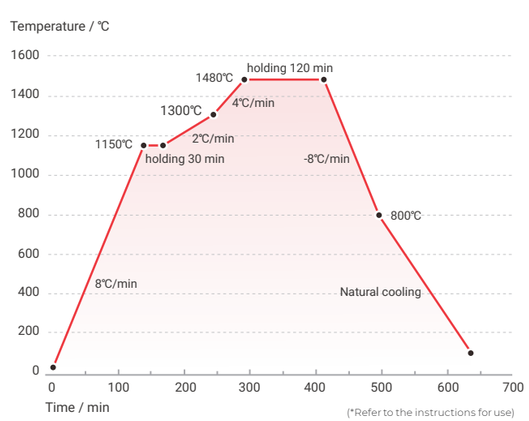
System

Open CAD/CAM System,
Compatible with Zirkonzahn® CAD/CAM System,
Compatible with Cerec in lab (Sirona) System

Shades



Sintering program



(*Refer to the instructions for use)



TT Series

- **TT WHITE**
- **TT MULTILAYER**

- Superior light transmittance
- No porcelain required
- For true-to-life anterior restoration
- Seamless transition of color

CE 0197 FDA



Physical Characteristics	TT White	TT Multilayer
Density after sintering	>6.0 g/cm^3	>6.0 g/cm^3
CTE* (25-500°C)	(10.5±0.5) x10^{-6}K^{-1}	(10.5±0.5) x10^{-6}K^{-1}
Chemical solubility after sintering	<100 µg/cm^2	<100 µg/cm^2
Radioactivity	≤1.0 Bq/g	≤1.0 Bq/g
Sintering temperature	1450 °C	1450 °C
Chemical Composition		
$ZrO_2 + HfO_2$	86.3%-94.2%	86.3%-94.2%
Y_2O_3	5.8%-9.7%	5.8%-9.7%
Al_2O_3	<0.5%	<0.5%
Fe_2O_3	-	<0.5%
Er_2O_3	-	<2.0%
Other oxides	<0.5%	<0.5%

*Linear thermal expansion

TT White

TT White provides the highest translucency, which is suitable for anterior restorations, and requires no porcelain.



Strength
600 MPa

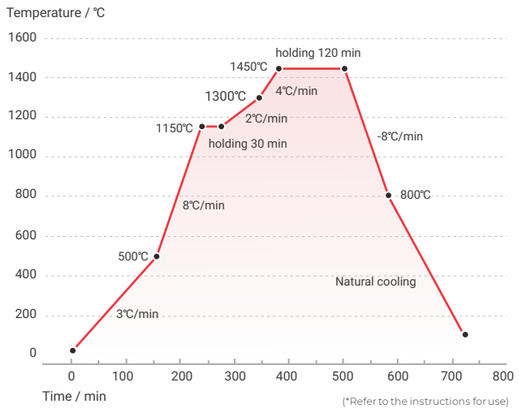
Translucency
49%

System

Open CAD/CAM System,
Compatible with Zirkonzahn® CAD/CAM System



Sintering program



(*Refer to the instructions for use)

TT Multilayer

TT Multilayer zirconia features a seamless chroma gradient and superior translucency. Available in 16 classical shades, it delivers excellent aesthetics without the need to add porcelain.



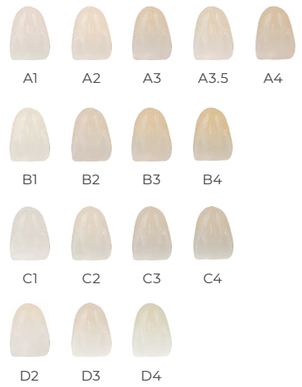
Strength
600 MPa

Translucency
49%

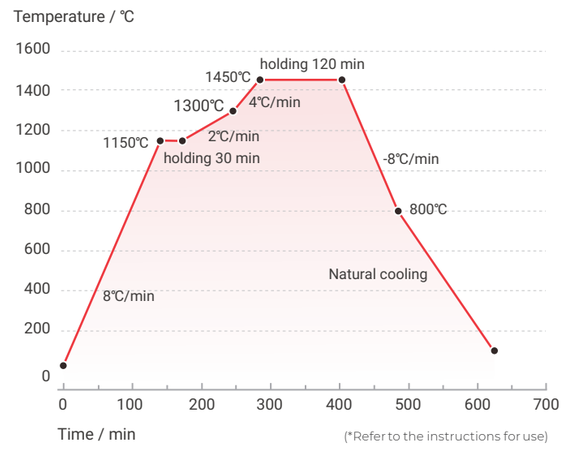
System

Open CAD/CAM System,
Compatible with Zirkonzahn® CAD/CAM System

Shades



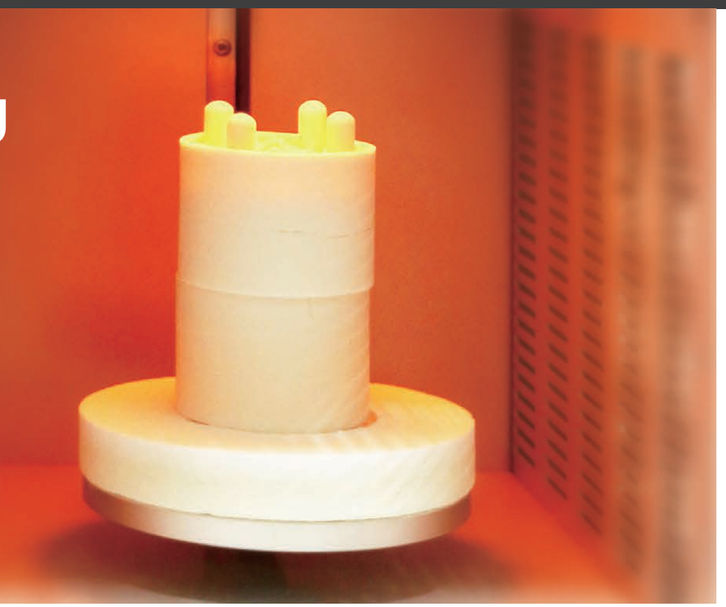
Sintering program



(*Refer to the instructions for use)

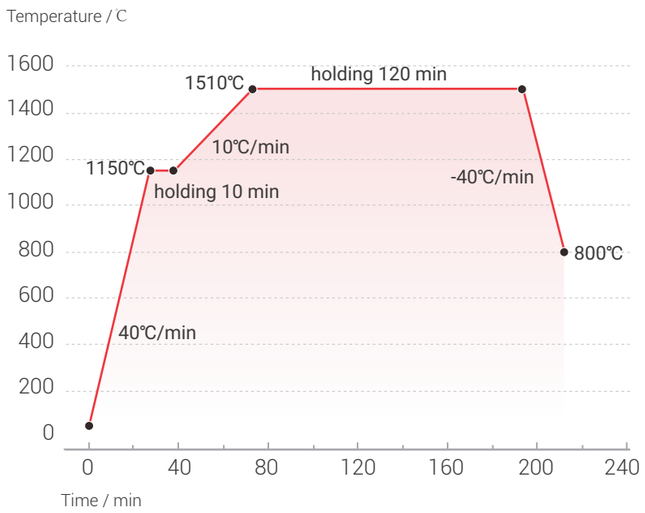
Fast Sintering Program

Max. 3 units bridges with
no more than 1 pontic



4h Fast Sintering Program

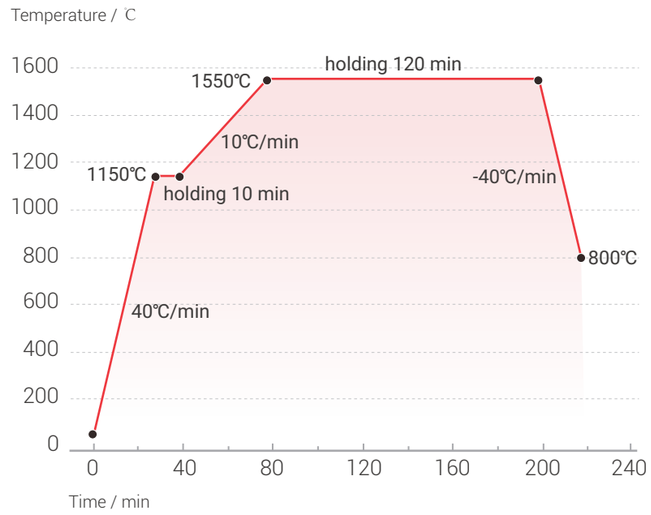
TT-One Preshaded, TT-One Multilayer, Explore Functional



*Sintering temperatures are recommendations. If necessary, carry out a trial sintering cycle and adapt the sintering temperatures or times as needed.
Select a proper high-temperature sintering furnace to sinter the restorations.
Please also refer to the operating instructions of the respective sintering furnace.

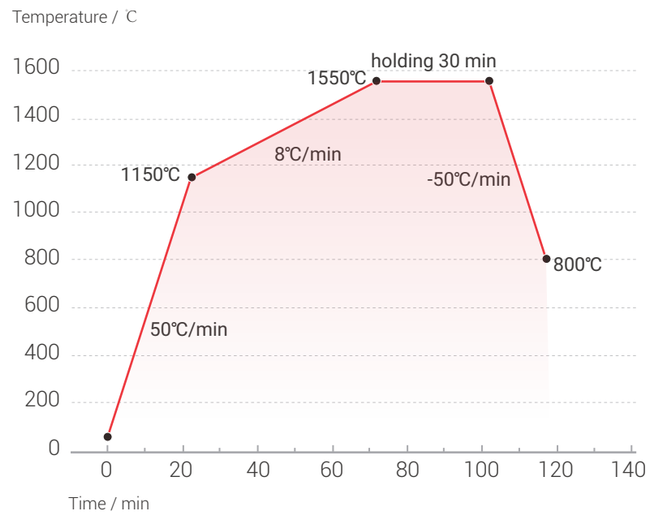
4h Fast Sintering Program

ST Pre-shaded, ST Multilayer



2h Fast Sintering Program

ST Pre-shaded, ST Multilayer, TT-One Preshaded, TT-One Multilayer, Explore Functional (without pontic)



Hyramic

- **Exceptional Durability**
  High flexural and compressive strength for long-lasting restorations
- **Natural Harmony**
  Outstanding shade, translucency and superior stain resistance for lifelike aesthetics
- **Stress Relief**
  Tooth-like elasticity reduces stress transfer for enhanced performance
- **Seamless Efficiency**
  No firing required; precise milling, fast polishing, and repairability streamline chairside workflows

Strength
≥180 MPa



Chemical Composition	Resin polymers	17%-23%
	Inorganic filler	77%-83%
	Additive	<1%
	Colorant	<1%
Technical Parameters	Water absorption	≤25μg/cm³
	Solubility in water	≤2μg/cm³

Indications



Veneers | Inlays /Onlays | Full Contour Anterior Crown | Full Contour Posterior Crown

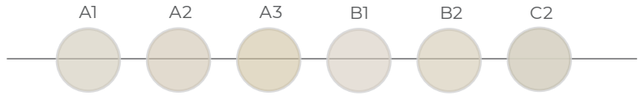
System



Open CAD/CAM System,
Compatible with Cerec in lab (Sirona)System

Available for Single & Multilayer Shades

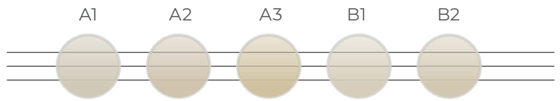
HT 18-14-12



LT 18-14-12



ML 18-14-12





DENTAL CONSUMABLES





CAD/CAM Wax

- Burned without Residue
- Easy Milling without Deformation

Technical Parameters	Melting point	110-115℃
	Hardness	45-55°
	Coefficient of thermal expansion	5%
Chemical Composition	Polyethylene wax	12.7%
	Synthetic wax	85%
	Others	2.3%
Specifications	Universal type	Fluorescent green, blue, white, black-grey, beige
	Esthetics wax	White, A2, A3 and other common colors
	Matching processing parameters	Spindle speed:18000r/min Cutter Loading in Rough Machining: 0.2mm Cutter Loading in Fine Machining: 0.05mm

Realism Glaze Paste

Realism stain and glaze paste kit has a wide range of colors and is ideal for all ceramics. Its simple operation allows the user to quickly complete the stain and glaze process and achieve natural results.

Optimized for

- Zirconia and Lithium Disilicate



BASIC



BASE A | BASE B | BASE C | BASE D

INCISAL



BASE 0 | GREY | GREY BLACK | BLUE | BLUE GREY

FOSSA



ORANGE | BROWN | REDDISH BROWN

EFFECT



BLACK | WHITE | YELLOW | PURPLE | OLIVE YELLOW | OLIVE GREEN

GINGIVAL



PINK | DARK PINK

GLAZE

GLAZE | GLAZE FLUO

Specification

Stain & Glaze Paste Kit

offers a better aesthetic experience with all colors





BASE A | BASE 0 | BLUE GREY | BLACK | WHITE | GLAZE
BASE B | GREY | ORANGE | YELLOW | PURPLE | GLAZE FLUO
BASE C | GREY BLACK | BROWN | OLIVE YELLOW | OLIVE GREEN | GLAZE LIQUID
BASE D | BLUE | REDDISH BROWN | PINK | DARK PINK

Stain & Glaze Paste Basic Kit

meets basic needs with 7 colors





BASE A | BASE B | PINK | GLAZE LIQUID
GREY | BLUE | OLIVE GREEN | GLAZE

Firing Program

For less than three unit bridges or crowns

Initial temperature (℃)	Preheating time (min)	Drying time (min)	Heating rate (℃/min)	Firing temperature (℃)	Holding time (min)	Cooling rate (℃/min)	Open temperature (℃)
500	4:00	4:00	45	760-830	1:00	45	500

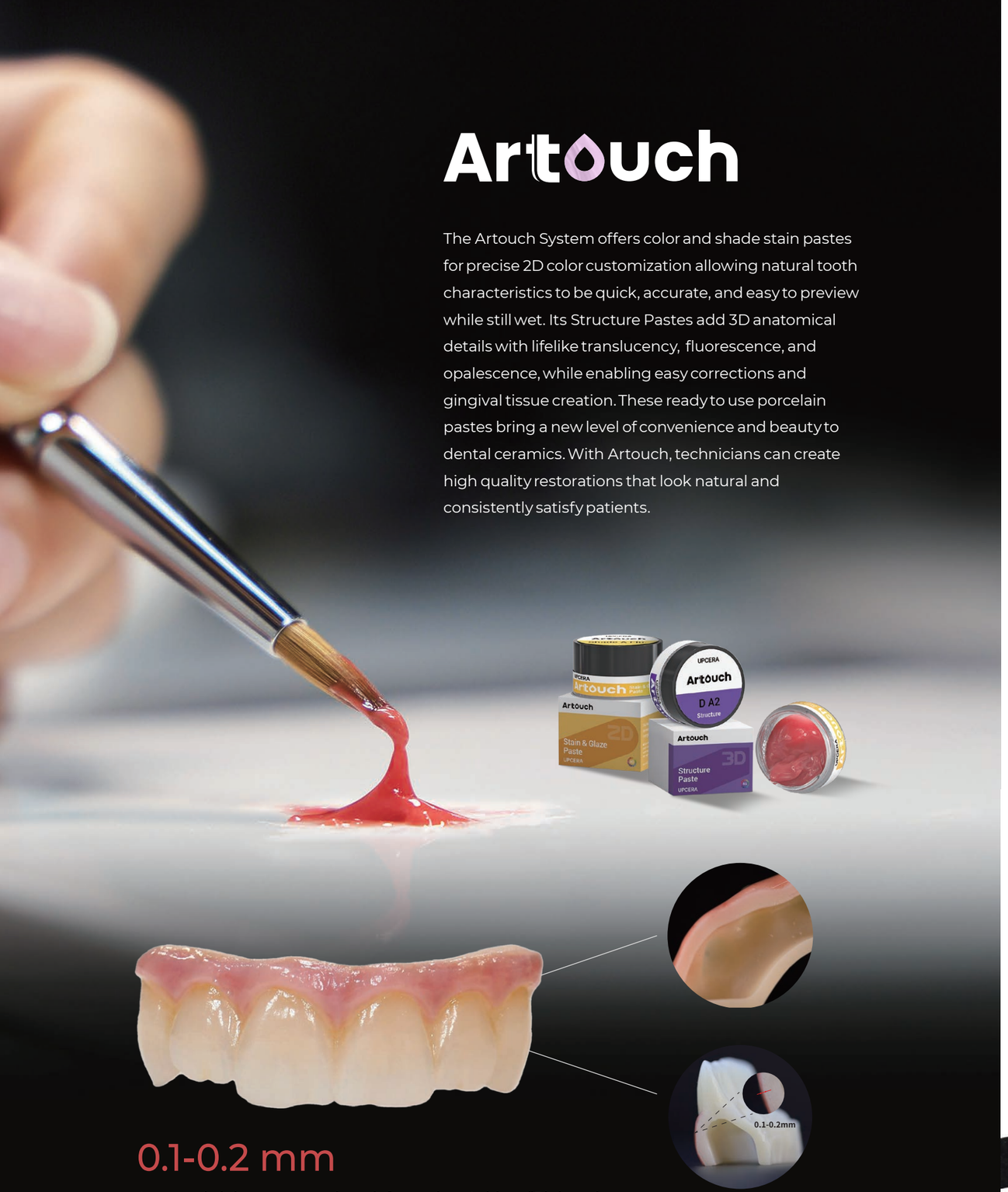
For more than three unit bridges

Initial temperature (℃)	Preheating time (min)	Drying time (min)	Heating rate (℃/min)	Firing temperature (℃)	Holding time (min)	Cooling rate (℃/min)	Open temperature (℃)
400	4:00	4:00	30	760-830	1:00	30	400

Notes:
1. The heating and cooling rates depend on the restoration. The greater the number of restoration units, the slower the heating and cooling rate will be; otherwise, there is an increased risk of bridge fractures and cracks.
2. It is recommended to lower the sintering temperature by 10℃ when you need to process the second firing.
3. Regular maintenance and temperature calibration are needed to ensure proper porcelain furnace firing conditions. Be aware there is typically a temperature difference between the actual furnace temperature and the temperature shown on the machine program screen.

Artouch

The Artouch System offers color and shade stain pastes for precise 2D color customization allowing natural tooth characteristics to be quick, accurate, and easy to preview while still wet. Its Structure Pastes add 3D anatomical details with lifelike translucency, fluorescence, and opalescence, while enabling easy corrections and gingival tissue creation. These ready to use porcelain pastes bring a new level of convenience and beauty to dental ceramics. With Artouch, technicians can create high quality restorations that look natural and consistently satisfy patients.



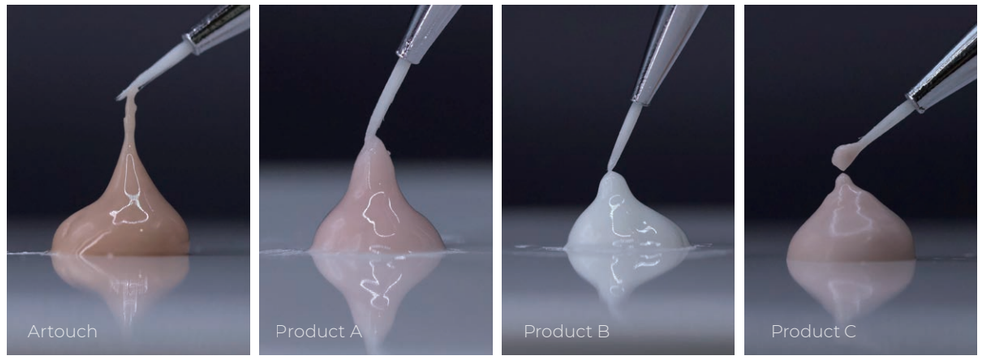
0.1-0.2 mm

Lowest shrinkage ensures less deformation. Achieve “Pink and white” esthetics in only 0.1-0.2 mm with Artouch Shade & Structure.

Excellent consistency and stability

Perfect consistency and optimized particle size distribution guarantee excellent shaping possibilities and stability.

After mixing



30 mins later



Color Shift Made Easy

With Artouch, a brighter color shift is achievable if the blank’s initial shade is too dark. Conversely, a darker color shift can be achieved if the blank’s shade is too light.



Artouch Master Kit ForTeeth

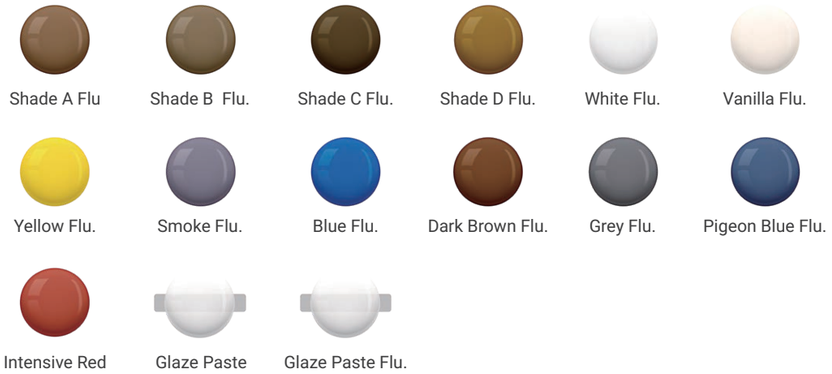
Specially developed for fully anatomical all-ceramic restorations and for restorations with minimum cut-back.

Structure Paste



D A2 | SM Sunny Beach | M Cream | T Blue | Opal | I 2 | Clear

Stain & Glaze Paste



Shade A Flu | Shade B Flu. | Shade C Flu. | Shade D Flu. | White Flu. | Vanilla Flu. | Yellow Flu. | Smoke Flu. | Blue Flu. | Dark Brown Flu. | Grey Flu. | Pigeon Blue Flu. | Intensive Red | Glaze Paste | Glaze Paste Flu.



Artouch Master Kit For Gum

Specially developed for the aesthetic finalization and characterization of the gingiva-colored parts of all ceramic restorations.

Structure Paste



G 1 Bright | G 4 Dark | G 6 Violet | G 9 Orange | G 16 Brown Pink | G 21 Neutral

Stain & Glaze Paste



Red | Brown Flu. | Red Brown Intensive | Orange Intensive Flu. | Purple Paste | Rose Paste | Rose Pink | Red Bright | Glaze Paste

Structure Paste (4g/pc, Structure Liquid 25ml/pc)

D A2 | SM Sunny Beach | M Cream | T Blue | Opal | I 2 | Clear | G 1 Bright | G 4 Dark | G 6 Violet | G 9 Orange | G 16 Brown Pink | G 21 Neutral

Stain & Glaze Paste (4g/pc, Glaze Liquid 25ml/pc)

Shade A Flu. | Shade B Flu. | Shade C Flu. | Shade D Flu. | White Flu. | Vanilla Flu. | Yellow Flu. | Smoke Flu. | Blue Flu. | Dark Brown Flu. | Grey Flu. | Pigeon Blue Flu. | Intensive Red | Glaze Paste | Glaze Paste Flu. | Red | Brown Flu. | Red Brown Intensive | Orange Intensive Flu. | Purple Paste | Rose Paste | Rose Pink | Red Bright



Chemical Composition

structure major glass ceramic constituents	SiO_2 Al_2O_3 K_2O Na_2O Li_2O SrO B_2O_3 CeO_2 ZnO
Shades & stains mayor glass ceramic constituents	SiO_2 Al_2O_3 K_2O Na_2O Li_2O CaO SrO B_2O_3 ZnO F
Mayor paste gel constituents	1,3-Butandiol, water

Technical Data

Artouch Shades & Stains and Artouch Structure comply to all applicable standards for dental porcelains (DIN EN ISO 6872, DIN EN ISO 10993-5). All limits are undercut and thresholds are outperformed.

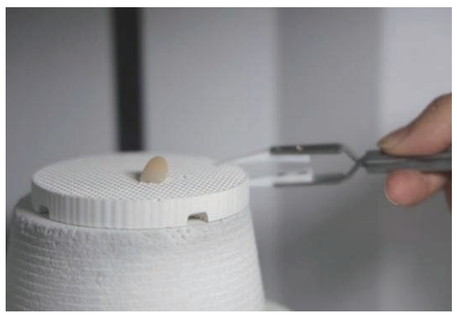
Artouch Structure physical -chemical properties acc. to DIN EN ISO 6872/DIN EN ISO 10993-5			**Artouch shades & stains** physical -chemical properties acc. to DIN EN ISO 6872/DIN EN ISO 10993-5		
Property	Specification	Measured data	Property	Specification	Measured data
Coefficient of thermal expansion (25-475°C)[10^{-6} K^{-1}±0.5]	2 X: 9.5 4 X: 9.5	2 X: 9.5 4 X: 9.6	Coefficient of thermal expansion (25-475°C)[10^{-6} K^{-1}±0.5]	2 X: 10.0 4 X: 10.0	2 X: 9.8* 4 X: 9.5*
Transformation temperature Tg (°C± 20)	2 X: 495 4 X: 495	2 X: 495 4 X: 496	Transformation temperature Tg (°C± 20)	2 X: 460 4 X: 460	2 X: 455* 4 X: 455*
Bending strength (MPa)	≥50	145-150	Bending strength (MPa)	≥50	>130*
Solubility (µg/cm²)	<100	19-35	Solubility (µg/cm²)	<100	Complies*
Radioactivity (Bq.g^{-1} U^{238})	<1	Complies*	Cytotoxicity	No Cytotoxicity	Complies**
Cytotoxicity	No Cytotoxicity	Complies**	Radioactivity (Bq.g^{-1} U^{238})	<1	Complies***

*) covered by report 170231-20-A,17-02-01,mds, D-Gilching
**) covered by analysis report 17-10238,17-01-20, FZ Jülich, D-jülich

*) data for base material
**) coverd by report 170231-20-C,17-02-01,mds, D-Gilching
***) analysis report 17-10237,17-01-20, FZ Jülich, D-jülich

Firing

After applying the stain/structure/glaze pastes, put the restoration on a appropriate firing tray and a firing cycle must be conducted in a proper dental firing furnace. Make sure to following the manufacturer's instructions.





Please use the suggested furnace cycle/program as shown below:

Stain

Start Temperature (°C)	Closing Time (Min)	Vacuum Start (°C)	Heating Rate (K/min)	Final Temperature (°C)	(Without Vacuum) Holding Time (Min)
400	4	---	45	710	1

Note: Depending on the degree of gloss, the final temperature can be increased by 10 - 20 °C during glaze firing!

Please note: For voluminous work, open the oven with an opening time of 2 minutes!

Structure

Firing Parameters	Monolithic Zirconia	Zirconia Applied With Layering Ceranic
Start Temperature (°C)	400	400
Dry- On Time (Min)	3	3
Closing Time (Min)	4	4
Heating Rate (K/min)	45	45
Vacuum Start (°C)	670	670
(Vacuum End) Final Temperature (°C)	770	770
(Without Vacuum) Holding Time (Min)	1	1

Firing parameters	lithium disilicate monolithic	lithium disilicate applied with layering ceramic	layering ceramic
Start Temperature (°C)	400	400	400
Dry- On Time (Min)	3	3	3
Closing Time (Min)	4	4	4
Heating Rate (K/Min)	45	45	45
Vacuum Start (°C)	670	670	670
(Vacuum End) Final Temperature (°C)	720	720	720
(Without Vacuum) Holding Time (Min)	2	2	2

Please note: For voluminous work, open the oven with an opening time of 2 minutes!
Note: With multiple fires, the final temperature can be reduced by 10 - 20 °C depending on the degree of gloss! Depending on the degree of gloss, the final temperature can be increased by 10 - 20 °C during glaze firing!



PMMA

- Excellent abrasion resistance and no deformation
- Available for single shade and multi-shaded



Technical Parameters

Flexural strength	≥50 MPa
Water absorption value	≤40μg/mm³
Dissolved value	≤7.5μg/mm³

Specifications

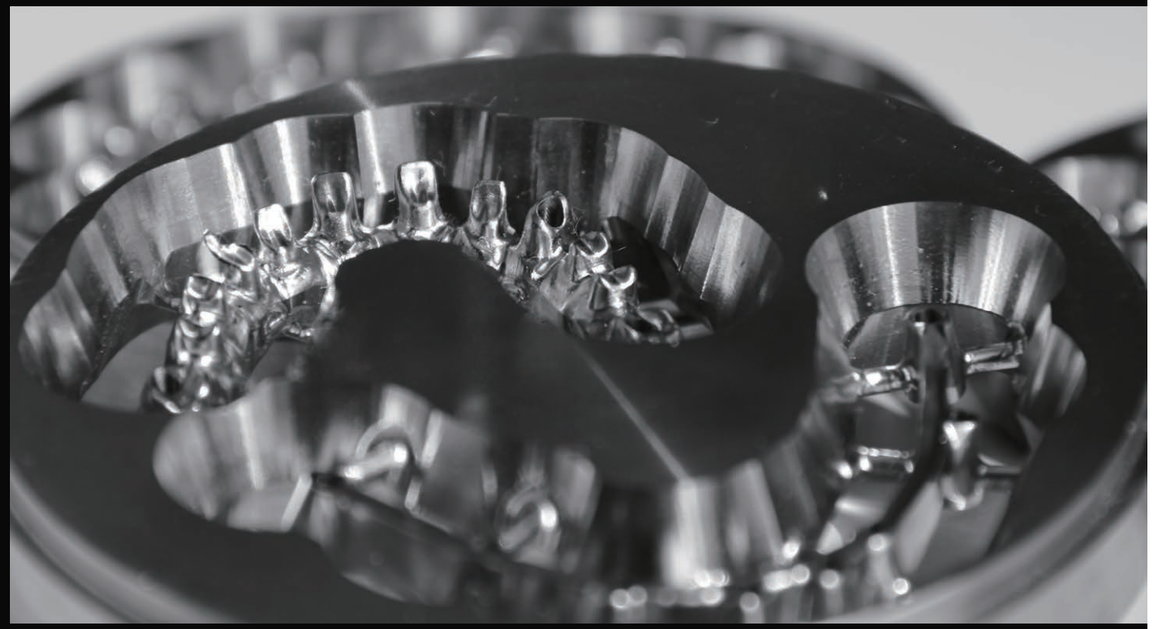
Temporary Restoration	S (Monochrome)	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 A0 BL1 BL2 BL3
	M (Multilayer)	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4 A0 BL1 BL2 BL3
Denture Base Resin Material		V-Pink A, V-Pink B, V- Pink C
Full denture		A1/V-Pink A, A2/V-Pink A, A3/V-Pink A, A3.5/V-Pink A, A4/V-Pink A, A1/V-Pink B, A2/V-Pink B, A3/V-Pink B, A3.5/V-Pink B, A4/V-Pink B, A1/V-Pink C, A2/V-Pink C, A3/V-Pink C, A3.5/V-Pink C, A4/V-Pink C, B1/V-Pink A, B1/V-Pink B, B1/V-Pink C
Transparent color		—

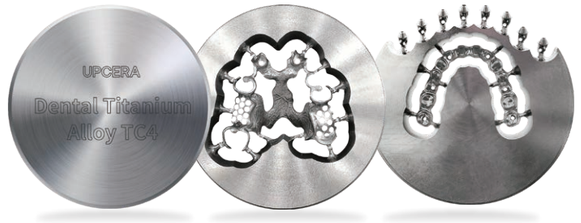
(Dental) Titanium Alloy

High performance titanium Grade 5 milling blank,
especially designed for the use of
CAD CAM milling systems



- Made from grade 5 titanium alloy TiAl6V4.
- Exceptional gold-ceramic bonding properties.
- Extremely corrosion resistant.
- Excellent biocompatibility.
- Particularly patient friendly due to low thermal conductivity.
- Perfectly suitable for implant-supported restorations, superstructures, bars, abutments, crowns and bridges.





Indications



Chemical Composition

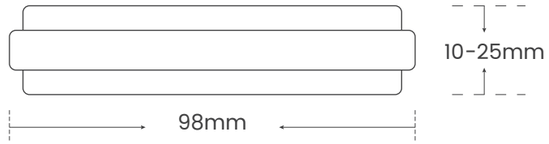
Ti%	Al%	V%	Fe%	O%	C%	N%	H%
Balance	5,5 - 6,8	3,5 – 4,5	≤0,3	≤0,2	≤0,08	≤0,05	≤0,01

Technical Data

0.2%, specified non proportional elongation strength Rp0.2/MPa	860MPa
Young's modulus	110GPa
Elongation after fracture	8%
Casting temperature	1700°C
Melting temperature	1640-1670°C
Density	4.4g/cm³

Max. firing temp. maximale	max. 950 °C
Linear expansion coefficient	$10\times10^{-6}K^{-1}$
Hardness	295HV10
Tarnish resistance	Yes
Corrosion resistance	≤200µg/cm²
Tensile strength	885MPa

Model



D98X10 D98X12 D98X14 D98X16
D98X18 D98X20 D98X25

supraCXN Ceramic Etchant

5% Buffered Hydrofluoric Acid Gel

supraCXN Ceramic Etchant is a 5% buffered hydrofluoric acid gel used to prepare the inside surface of all ceramic restorations except oxide ceramics. It roughens the surface to increase surface area, which helps create a much stronger and more reliable bond.

• PRECISE

Thixotropic gel combined with a preferred injection system, which takes into account the coating and extrusion performance, allowing for precise etching of the surface that needs to be etched.



• NO RESIDUE

Utilizing a bio-adhesive matrix and highly water-soluble pigments, ensuring completely removable with just a rinse of water.



• SAFE

Utilizing a bio-adhesive matrix and highly water-soluble pigments ensures it is completely removable with just a rinse of water.

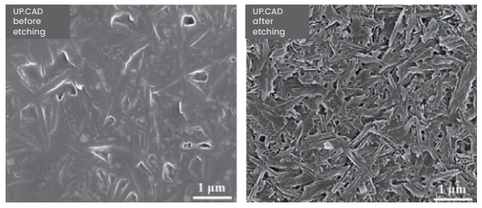


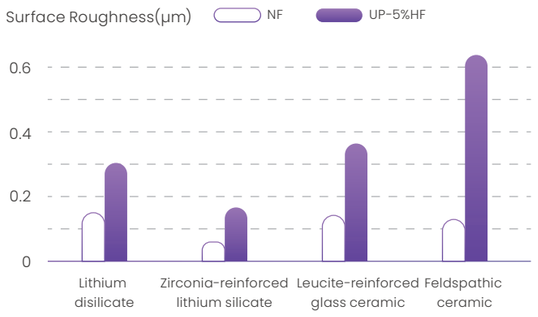
10g/bottle

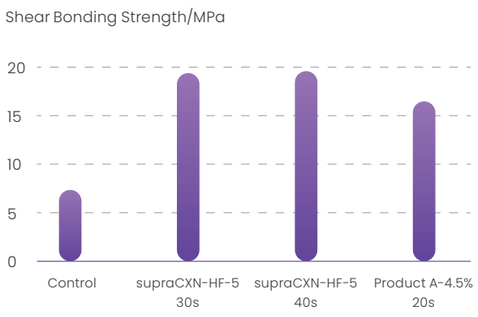


• RELIABLE

Designed for the surface roughening of glass ceramic and resin-based ceramic to achieve stable and reliable etching.







supraCXN Stick

The adhesive tip applicator

- Flexible tip and bend easily
- Strong stick force
- Securely hold until restoration is placed
- Detaching by simple twist
- No residue remains on the adhered surface



Packaging: **10 pcs/set, 2 sets/box**

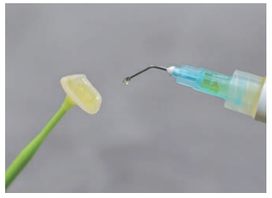
Usage

supraCXN Stick is designed to hold and place fragile components used in dentistry.

Ideal for working with veneers, inlays, onlays, crowns, bands, brackets, dental jewelry, and others.



What can it be used for during the dental treatment?



Etching



Silanization



Cementation



Placement

supraCXN™ EsCem

Self-Adhesive Resin Cement

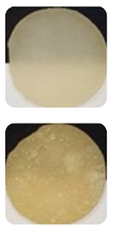


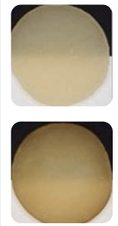
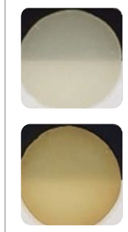
Shaded: A2 / A3 / TW

Contents: 8g × 1 syringe

Indications: Final cementation of ceramic or metal-based restorations

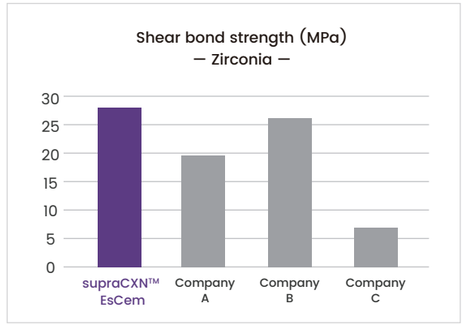
- **Contains 10-MDP**
- **Outstanding color stability**
  Meets the demands of aesthetic restorations

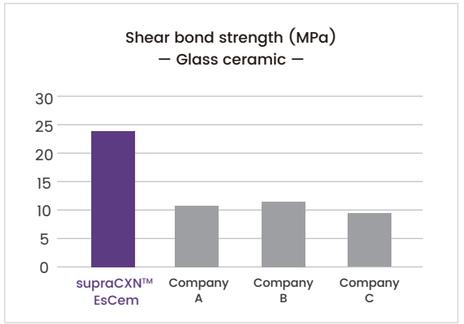
Two-year accelerated aging in distilled water at 60°C			
supraCXN™ EsCem	Produtc A	Produtc B	Produtc C
			

Store in 37°C coffee for 10 days			
supraCXN™ EsCem	Produtc A	Produtc B	Produtc C
			

- **Easy to use**
  Self adhesive & dual cure & automix
- **Easy to remove excess material**
- **One step cementation to minimize errors**
  No need of etching, priming or bonding

Excellent adhesive strength





Cementation Guide for Zirconia restorations



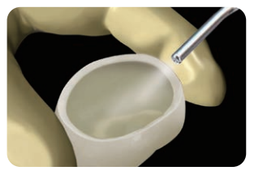
01 Clean, rinse and thoroughly dry the prepared tooth.



02 Prepare the restoration according to the manufacturer's instructions.



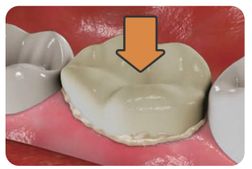
03 50μm Alumina Sand blast with 0.4 MPa Pressure.



04 Rinse and Dry.



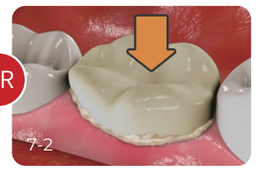
05 Place the mixingtip and apply supraCXN™ EsCem directly intothe restoration.



06 Seatimmediately and maintain moderate pressure.

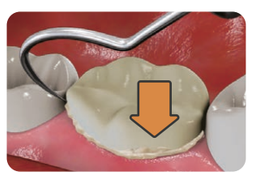


OR



07-1 Tack cure 1 to 2 seconds using curing light to remove excess material.

07-2 Keep proper pressure until it reaches gel paste for 60 seconds.



08 Remove excess supraCXN™ EsCem while maintaining proper pressure.



OR



09-1 Light cure each surface for 20 seconds (LED 1200mW /cm²).

09-2 Let the material set for 4 minutes in case the light didn't pass through the crown.

DFK Binocular Loupe

Ergonomic Design to
Guard Your Occupational Health

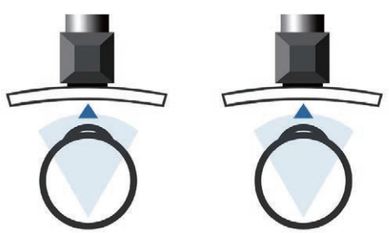


Large field of view

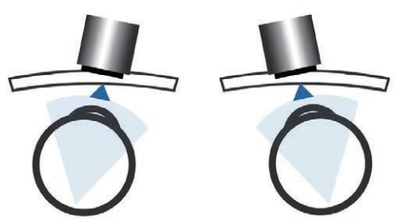
With its prism lens group design and advanced optical system, the field of view is signifi-cantly wider than that of traditional surgical loupes.

Parallel line of sight design

Parallel line of sight design to minimize eye fatigue caused by concentrated of sight and improve working efficiency.



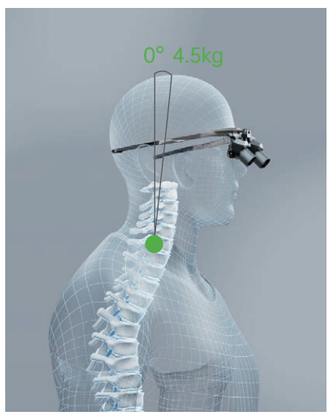
DFK Binocular Loupes with parallel sights



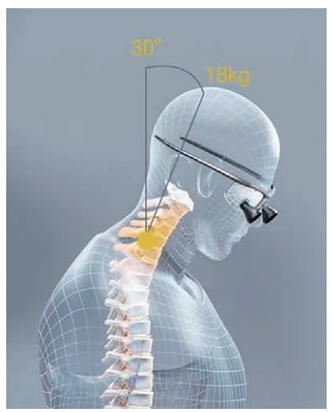
Traditional Loupes with angular sights

Ergonomic design

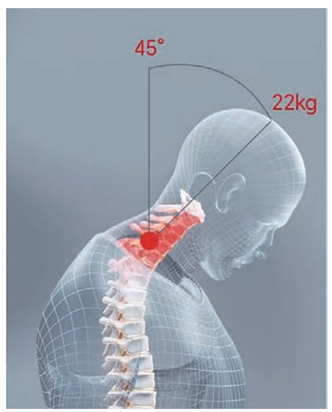
With the 48° Prism angle design, DFK Binocular Loupe can eliminate the need to lower the head and bend, thereby reducing neck fatigue and guarding occupational health.



DFK Binocular Loupe



Traditional Loupes

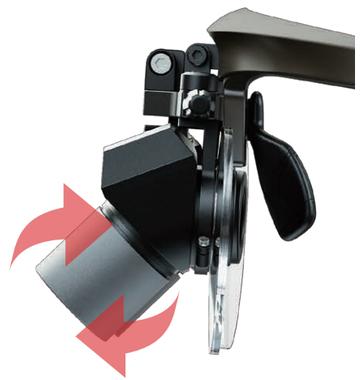


Without Loupes

Adjustable working distance

The eye point, pupillary distance, and working distance can all be easily adjusted. You can also switch between magnified and normal views simply by moving your eyes up or down.





Configuration

Magnification	Weight	Working distance (adjustable)
3.0x	91 g	400-550 mm

Grinding and Polishing Kits

Grinding Tools For Zirconia

and Porcelain Restorations

Ceramic Diamond Grinders Special for Zirconia

Material: Ceramic powder mixed with diamond grit.

Usage: For fast finishing and dry grinding of zirconia. This is an alternative to using a diamond bur with water cooling.

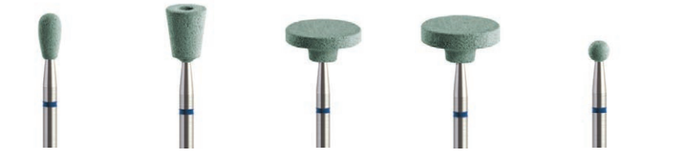
Caution: Please use within the recommended RPM or the restoration may be damaged!



Grit: Mid-Coarse							
Packing(pcs): 1							
Order No.:	CD 001 3	CD 006 3	CD 008 3	CD 007 3	CD 009 3	CD 011 3	CD 012 3
Recommended R.P.M:	15,000-30,000 / min	15,000-30,000 / min	15,000-30,000 / min	15,000-30,000 / min	15,000-30,000 / min	15,000-30,000 / min	15,000-30,000 / min
Size Φ × L(mm):	13 x 7	16 x 2	22 x 2	16 x 3.5	22 x 4.5	16 x 1.5	22 x 2
ISO No.: 805...	900 030 524 130	900 372 524 160	900 372 524 220	900 041 524 160	900 041 524 220	900 307 524 130	900 307 524 220



Grit: Mid-Coarse							
Packing(pcs): 1							
Order No.:	CD 201 3	CD 202 3	CD 203 3	CD 212 3	CD 214 3	CD 221 3	CD 222 3
Recommended R.P.M:	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min
Size Φ × L(mm):	3 x 7	5 x 12	7 x 12	4 x 10.5	3 x 7	5 x 2.5	13 x 3.5
ISO No.: 805...	104 110 524 030	104 113 524 050	104 113 524 070	104 174 524 040	104 197 524 030	104 014 524 050	104 024 524 130



Grit: Mid-Coarse					
Packing(pcs): 1					
Order No.:	CD 224 3	CD 225 3	CD 231 3	CD 232 3	CD 251 3
Recommended R.P.M:	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min
Size Φ × L(mm):	3.6 x 7	6 x 8	12 x 2	12 x 3	3 x 3
ISO No.: 805...	104 237 524 036	104 030 524 060	104 041 524 120	104 042 524 120	104 001 524 030



Packing(pcs): 1				
Order No.:	CD 232 4	CD 202 4	CD 212 4	CD 214 4
Recommended R.P.M:	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min	20,000-35,000 / min
Size Φ × L(mm):	12 x 3	5 x 12	4 x 10.5	3 x 7
ISO No.: 805...	104 042 514 120	104 113 514 050	104 174 514 040	104 174 514 030

Rubber Diamond Polishers
Special for Zirconia/Porcelain Workpiece

Material: Synthetic rubber with diamond grit

Usage: For quickly smoothing and polishing zirconia crowns, zirconia veneers, and porcelain teeth.

Caution: Please use within the recommended RPM or the restoration may be damaged!











Grit:					
Packing(pcs): 1					
Order No.:	RD 011 1	RD 011 3	RD 011 4	RD 011 5	RD 011 6
Recommended R.P.M:	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min	10,000-20,000 / min	10,000-20,000 / min
Size Φ × L(mm):	19 x 2	19 x 2	19 x 2	19 x 2	19 x 2
ISO No.: 802...	900 307 544 190	900 307 524 190	900 307 514 190	900 307 504 190	900 307 494 190











Grit:					
Packing(pcs): 1					
Order No.:	RD 012 1	RD 012 3	RD 012 4	RD 012 5	RD 012 6
Recommended R.P.M:	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min	10,000-20,000 / min	10,000-20,000 / min
Size Φ × L(mm):	26 x 3	26 x 3	26 x 3	26 x 3	26 x 3
ISO No.: 802...	900 307 544 260	900 307 524 260	900 307 514 260	900 307 504 260	900 307 494 260



Grit: Mid-Coarse							
Packing(pcs): 1							
Order No.:	RD 201 3	RD 202 3	RD 211 3	RD 212 3	RD 216 3	RD 221 3	RD 222 3
Recommended R.P.M:	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min
Size Φ × L(mm):	3 x 7	5 x 12	3 x 7	4 x 12	4 x 12	9 x 8.5	18 x 3
ISO No.: 802...	104 110 524 030	104 113 524 050	104 243 524 030	104 243 524 040	104 174 524 040	104 030 524 090	104 026 524 180



Grit: Mid-Coarse					
Packing(pcs): 1					
Order No.:	RD 231 3	RD 232 3	RD 233 3	RD 241 3	RD 237 3A
Recommended R.P.M:	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min	15,000-25,000 / min
Size Φ × L(mm):	12 x 1	12 x 2	12 x 4	12 x 2	15×2.5
ISO No.: 802...	104 371 524 120	104 041 524 120	104 042 524 120	104 304 524 120	104 041 524 150

Laboratory Handpiece

Innovative Design for
an Improved Experience



Use to trim and detach dental zirconia, glass ceramic, composites, titanium and metal alloy. Utilizing a high-quality Taiwanese brushless motor with advanced technology, vibrations are dampened to enhance the customer experience.

Superior torque pedal speed control

Active intelligent safety system

Optimal for high-end dental labs

Model	W-50H
Case Size	220 × 160 × 80 mm (length × width × height)
Case Weight	2.6kg (net weight)
Handpiece Sze	148 × 27 mm (length × width)
Handpiece Weight	230 g (net weight)
Output Power	150 W
Standby Power Consumption	<1 W
Maximum Torque	9.8 Ncm
Speed Setting	0~50,000 RPM
Speed Fuctuation	<1% set speed
Power Supply	110 VAC/3 A
Operating Mode	Forward/Reverse any switch
Fault Self-test	E0-E7 display
Circuit Protection	Overheat, overload, and overcurrent
Dynamic Response	Starts 1.1 seconds/stops for 1.2 seconds
Drive Mode	Manual/Speed control pedal

DIGITAL DENTAL SOLUTIONS



FLNTScan R2

Intraoral Scanner

Smaller
Lighter
Faster



Expansive Vision, Impressive Depth

16 x 14 mm ultra-large field of view, reaching a maximum depth of field of 25 mm, comprehensively improving scanning efficiency, providing comprehensive and precise support for clinical applications.

Higher Scanning Accuracy

Higher scanning accuracy, with 10 μm for single crown, 20 μm for full arch, meeting requirements of multiple clinical applications.

Higher Scanning Speed

Equipped with AI intelligent algorithms, enabling a full scan within 60 s.

Lighter Weight

Ergonomically designed lightweight body, weighing just 165 g, ensures effortless scanning. Remain comfortable even with extensive use.

Motion Gesture Sensor

Viewing Model with simple hands turning.

165 g
Handpiece Weight

25 mm
Depth of View

16 x 14 mm
Scanning Scope

Specification

Model	FLNTScan R2
Handpiece Size	243 x 40 x 32 mm
Connection	Wired USB 3.0
Handpiece Weight	165 g (without cable)
Depth of View	0-25 mm
Scanning Accuracy	Single Crown≤10 μm, Full Arch≤20 μm
Scanner Tip	3 Standard tips, 1 Mini tip, 1 Protective cover
Scanner Tip Size	Standard 115 x 20.5 x 18 mm, Mini 115 x 17 x 13.5 mm
Scanning Scope	16 x 14 mm
Imaging Method	Optical Continuous Video Capture
Image Mode Synchronization	3D Video
Quick Reset	Yes
Model Optimization	Yes
Output Format	STL, PLY (True Color), OBJ
Working Lifespan	>30000 hours
Anti-fog Method	Fan-cooling
Calibration Tip	1 Set (Optional)
Product Lifespan	12 years



FLNTScan LU1

3D Scanner



All-in-one scanning for dental laboratories

01

Using dual 3 megapixel high-frame-rate cameras, the system delivers much clearer image capture. With upgraded software algorithms, it offers faster scanning and improved post-processing performance.

02

360 degree scanning without blind angle, featuring an ultra-wide capture area ideal for scanning narrow gaps in orthodontic models, veneers, and unsegmented models.

- **Free switch**
  One-button to switch to the needed scanning step, without the limit of the traditional scanning processes.
- **Applicable for multiple restorations**
  Supports scanning of veneers, impressions, orthodontic models, RPDs, unsegmented models, implants, and more.
- **High-definition scanning**
  Dual high-resolution cameras provide clearer data surface quality.
- **Intelligent high-speed scanning**
  One-button to add-scan, accurately and correctly, no need to search for the holes and scanning angles, improving scanning efficiency.
- **Open System: Simple, fast, and easy to use**
  1. Import and export the STL file freely.
  2. Output formats: STL, UM, PLY, OBJ.
  3. Integrate seamlessly to third party design software, like Exocad, 3Shape, Dental Wings, etc.

Technical Data

Model	FLNTScan LU1
Dimension	250 x 300 x 539mm
Weight	16Kg
Cameras	2x3 mega pixels
Accuracy	8μm
Projector	Customized blue light, supports multi-color scan
Interface	USB 3.0
Output format	STL;PLY;OBJ
Power supply	AC100-240V，50HZ
Axis quantity	2
Texture mode	Point cloud colorization
Structure	Open
Feature	Unsegmented model scan
Scanning method	Non-contact blue light scan

UPCERA Milling Machine










	FLNTMill-A51	FLNTMill-A52	FLNTMill-A52W	FLNTMill-A52DW	FLNTMill-B42	FLNTMill-B52	FLNTMill-E52 Hybrid	FLNTMill-M52 AirFree
Number of axis	5	5	5	5	4	5	5	5
Number of burs	6	6/12	12	12	15	16	16	10
Maximum power	1.0 KW	1.0 KW	1.0 KW	1.0 KW	4.0 KW	4.5 KW	2.5 KW	1.7 KW
Maximum spindle power	500 W	500 W	500 W	500 W	1800 W	2300 W	4000 W	800 W
Maximum speed	80, 000 rpm	80, 000 rpm	80, 000 rpm	80, 000 rpm	60, 000 rpm	60, 000 rpm	60, 000 rpm	60, 000 rpm
Systems	Servo drives	Servo drives	Servo drives	Servo drives	Servo drives	Servo drives	Servo drives	Servo drives
Automatic disc changer	—	—	—	✓	—	—	—	—
Large rotation angle	A axis : +25°/-18° B axis : ±360°	A axis : ±360° B axis : -35°/+95°	A axis : ±360° B axis : +35°/-95°	A axis : -±360° B axis : +33°/-35°	A axis : ±360°	A axis : ±30° B axis : ±360°	A axis : 360° B axis : +35°/ -90°	A axis : -30° B axis : +90°
Dry milling	✓	✓	—	✓	—	—	✓	✓
Wet milling	—	—	✓	✓	✓	✓	✓	—
Disc processing 98.5 mm	✓	✓	✓	✓	✓	✓	✓	✓
Zirconia	✓	✓	—	✓	—	—	✓	✓
PMMA/PEEK/Wax	✓	✓	✓	✓	✓	✓	✓	✓
Glass Ceramic/Composite Resin	—	—	✓	✓	✓	—	✓	—
Unsintered Metal	✓	✓	✓	✓	✓	✓	✓	—
Chrome Cobalt	—	—	—	—	✓	✓	✓	—
Titanium Disc	—	—	—	—	✓	✓	✓	—
Premill	—	—	✓	✓	✓	✓	✓	—
Crown/Inlay/Onlay	✓	✓	✓	✓	✓	✓	✓	✓
Bridge (4 units)	✓	✓	✓	✓	✓	✓	✓	✓
Bridge (14 units)	✓	✓	✓	✓	✓	✓	✓	✓
Splints	✓	✓	✓	✓	✓	✓	✓	✓
Framework	✓	✓	✓	✓	✓	✓	✓	✓
Premill	—	—	✓	✓	✓	✓	✓	—
Bar structure/Screw-Retained bridge	—	—	—	—	—	✓	✓	—
Multiple Configurations Available at Purchase. Contact Technical Support for Details.	—	—	—	—	✓	✓	✓	—

✓ Yes — No

FLNTMill-A51

Milling Machine





- High stability and accuracy
- Top-class mechanical & electric parts
- Automatic tool changer
- 24/7 non-stop machining
- Power-off and low air-pressure protection
- High-performance cast steel and aviation aluminum alloy structures

Indications



Pre-milled Abutment



Implant Bridge



Post-core Crown



Veneer



Surgical Guide

Materials



ZIRCONIA PMMA WAX PEEK

Device Parameters

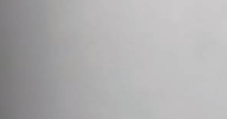
Specification	Parameters
Dimensions	53 x 47 x 56 cm
Weight	72 kg
Voltage	220 V/50 Hz ; 110 V/60 Hz (optional)
Power	1.0 KW
Compatible Compressed Air	0.5-0.8 MPa
Spindle Speed	80,000 rpm
Precision	< 0.01 mm
Number of Bur	6
Cooling Type	Air cooling
Tilt Angle	A axis: +25° -18°, B axis: ±360°
Application	Coping, crown, bridge, inlay, onlay, veneer, post-core crown, telescopic crown, customized abutment crown, overstructure, dental framework
Milling Speed	Zirconia, PEEK, PMMA (10 minutes/pc), Wax (3 minutes/pc), Framework (45 minutes/pc)

FLNTMill-A52

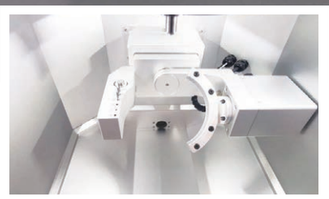
Milling Machine



Fixture type (Optional)







Spindle Speed: 80,000 rpm



Precision: <0.01mm



90° Vertical Milling

- 5-axis simultaneous milling
- Integrated, fully enclosed milling chamber for outstanding dust collection
- Built-in PC with a 12-inch touchscreen
- Equipped with servo motor and ball screw, precise within 0.01 mm of accuracy
- High-performance aircraft-grade aluminum alloy housing
- Up to 90° large angle for buccal side cutting
- Automatic tool changer and tool detection

Device Parameters

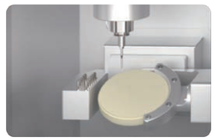
Specification	Parameters
Dimensions	55 x 49 x 74 cm
Weight	95 kg
Voltage	230 V/50 Hz ; 110 V/60 Hz (optional)
Power	1.0 KW
Compatible Compressed Air	0.5-0.8 MPa
Spindle Speed	80, 000 rpm
Tilt Angle	A axis: ±360°, B axis: -35°/+95°
Precision	<0.01 mm
Number of Bur	6/12
Cooling Type	Air cooling
Materials	Zirconia, Wax, PEEK, PMMA (Φ98.5 mm, thinkness of 10 mm-30 mm)
Milling Speed	Zirconia, PEEK, PMMA (10 minutes/pc), Wax (3 minutes/pc), Framework (45 minutes/pc)
Application	Coping, crown, bridge, inlay, onlay, veneer, post-core crown, dental framework, telescope denture, customized abutment and the crown on it, and implant supported restorations



FLNTMill-A52W

Milling Machine









- Build-in solid water tank
- Reliable capacitive touch screen, user-friendly UI
- Applicable with 4 units of Pre-milled Ti base or 5 units of glass ceramic block
- Stable and powerful spindle ensures high precision results
- Protection module against power failure and low air pressure
- 24-hour non-stop machining

Materials



Glass ceramic | Pre-milled Ti base | PMMA | Wax | PEEK

Device Parameters

Specification	Parameters
Dimensions	55 x 49 x 75 cm
Weight	105 kg
Voltage	230 V/50 Hz ; 110 V/60 Hz (optional)
Power	1.0 KW
Compatible Compressed Air	0.5-0.8 MPa
Spindle Speed	80, 000 rpm
Tilt Angle	A axis: ±360°, B axis: +33° -35°
Precision	<0.01 mm
Number of Bur	12
Processing Cooling Type	Water cooling (Built-in water tank)
Materials	Glass ceramic, Pre-milled Ti base, PEEK, PMMA Wax (Φ98.5mm, thickness of 10mm-30mm)
Milling Speed	Pre-Milled abutment (40 minutes/pc), Glass-ceramic (10~30 minutes/pc), PEEK, PMMA (10 minutes/pc) Wax (3 minutes/pc), Framework (Wax / PEEK, 45/150 minutes/pc)
Application	Coping, crown, bridge, inlay, onlay, veneer, post-core crown, dental framework, telescope denture, customized abutment and the crown on it, and implant supported restorations

FLNTMill-A52DW

Milling Machine



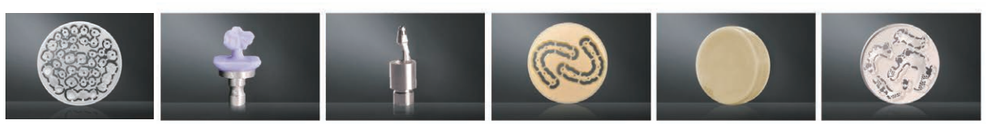


- One click switch dry/wet working mode
- Reliable 12 "capacitive touch screen operation, user-friendly UI
- Build-in solid water tank
- Integrated multi-station fixture, can process disk, titanium column (4 pcs), glass ceramic (5 pcs)
- Stable and powerful spindle ensures high precision results
- 24-hour non-stop machining

Device Parameters

Specification	Parameters
Dimensions	490 x 550 x 750mm
Weight	110 kg
Voltage	230V/50Hz ; 110V/60Hz (optional)
Power	1.0 kw
Compatible Compressed Air	0.5~0.8 MPa
Spindle Speed	80, 000 rpm
Precision	<0.01 mm
Number of Bur	12
Cooling Type	Air cooling or Water cooling (Built-in water tank)
Tilt Angle	A axis:±360°, B axis:±35°
Materials	Zirconia, Glass ceramic, Pre-milled Ti base, PEEK, PMMA, Wax (Φ98.5mm, thickness of 10mm-35mm)
Milling Speed	Glass-ceramic (10~35 minutes/pc), Pre-Milled abutment (25 minutes/pc), Zirconia/PEEK/PMMA (10 minutes/pc), Wax (3 minutes/pc), Framework (45 minutes/pc)
Application	Coping, crown, bridge, inlay, onlay, veneer, post-core crown, dental framework, telescope denture, customized abutment and the crown on it, the restoration above the implant

Materials



Zirconia | Glass ceramic | Pre-milled Ti base | PMMA | Wax | PEEK

FLNTMill-B42

Milling Machine



Fixture type



- 12-inch touch screen, simple to use
- Top stability and high accuracy
- Outstanding performance spindle
- 24/7 non-stop machining
- Top class components
- One-cast steel structure
- Low air pressure protection

Materials



Device Paremeters

Specification	Parameters
Dimensions	65 x 65 x 175 cm
Weight	420 kg
Voltage	230 V/50 Hz 110 V/60 Hz (optional)
Power	4.0 KW
Compatible Compressed Air	0.55-0.8 MPa
Spindle Speed	60,000 rpm
Precision	< 0.01 mm
Tilt Angle	A axis: ±360°

Specification	Parameters
Number of Bur	15
Cooling Type	Water cooling
Materials	Premill and Glass-ceramic *Titanium Disc, PMMA Disc and PEEK
Application	Customized abutment, crown, inlay, onlay, veneer/dental framework (optional)
Milling Speed	Pre-milled abutment (15 mins/unit) Glass ceramic (10-30 mins/unit) Metal Crown (25 mins/unit) Framework (Wax/PEEK/Titanium, 45/120/180 mins/pc)

*Requires different configuration to be ordered at purchase.

FLNTMill-B52

Milling Machine



Fixture type



Optional

- 12-inch touch screen, easy-to-use UI
- High Stability, high precision
- Easy to use, 24 hour continuous run
- One-cast steel structure delivers the highest level of stability
- High performance spindle with automatic tool changer
- Top class mechanical & electrical parts, protection module safeguards against power failure and low air pressure

Materials

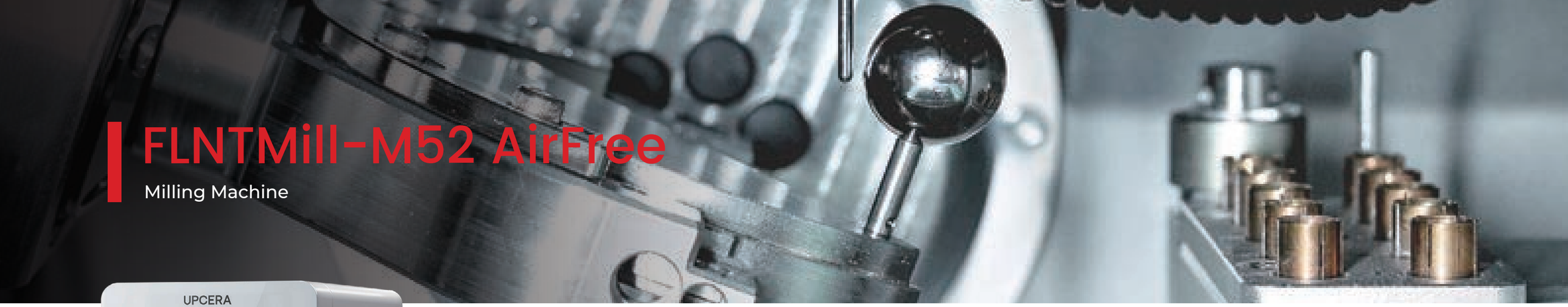


Device Paremeters

Specification	Parameters
Dimensions	65 x 65 x 175 cm
Weight	435 kg
Voltage	230 V/50 Hz 110 V/60 Hz (optional)
Power	4.5 KW
Compatible Compressed Air	0.55-0.8 MPa
Spindle Speed	60,000 rpm
Processing accuracy	< 0.01 mm
Tilt Angle	A axis is ±30°, B axis is ±360°

Specification	Parameters
Number of Bur	16
Cooling Type	Water cooling
Materials	Titanium disc, Co-cr, Pre-milled Ti base*, PMMA, Wax/Glass ceramic (Optional)
Application	customized abutment, implant bridge, implant bar, customized abutment, Coping, Crown, bridge/ inlay, veneer (Optional)
Milling Speed	Customized abutment (40 mins/unit) Pre-milled abutment (15 mins/unit) Glass ceramic (10-30 mins/unit) PMMA (10 mins/pcs), Wax (3 mins/unit) Titanium framework (180 mins/unit)

*Requires different configuration to be ordered at purchase.



FLNTMill-M52 AirFree

Milling Machine



Compressor-Free Convenience

Made in Germany

German Spindle Durability

Quiet Clean Compact

Plug and Play

- **Built-in air pump for tool and tool holder cleaning**

  Automatically removes debris from tools and tool holders, helping maintain consistent machining accuracy.

- **Up to 90° wide-angle access for buccal-side machining**

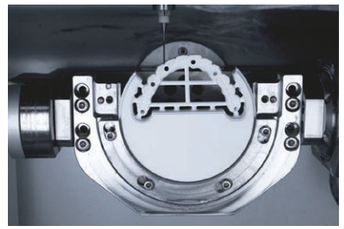
  Enables precise cutting of buccal surfaces, improving restoration accuracy and surface quality.

- **Automatic recovery after power interruption**

  Automatically resumes operation after a power outage, minimizing downtime and protecting unfinished jobs.

- **Excellent sealing and dust-proof design**

  Fully enclosed structure ensures effective dust isolation, enhancing durability and long-term stability.







Device Parameters

Specification	Parameters
Positioning Accuracy / Repeatability	0.01mm/0.005 mm
Return-to-Zero Repeatability	0.01 mm
Calibration Accuracy Range	±0.05 mm
Automatic Tool Changer Capacity	10
Machine Weight	170 kg
Tilt Angle	A axis: -30°, B axis: +90°
Machine Dimensions	525mm×700mm×784mm
Number of Axis	5
Millable Types	Crown, bridge, veneer, inlay, abutment, screw-retained crown, screw-retained bridge, etc.
Millable Materials	Zirconia, Wax, PEEK, PMMA (10-35 mm)
Spindle Power	DC 0.8KW
Spindle Speed	60,000rpm
Input Power Supply	Single-phase AC
Input Power Consumption	220-240V 50/60Hz

FLNTOven-GT1

Sintering Furnace



- GT1 is a new type of fast sintering furnace with a silicon carbide (SiC) heating element, preventing zirconia contamination.
- LCD display real-time monitoring of furnace voltage, current, and temperature with better efficiency and stability.
- Firing temperatures up to 1550 ℃. 18 built-in sintering programs are equipped with 5 stages for each program that enables meeting various zirconia sintering needs from different curves.

Device Parameters

Specification	Parameters
Dimensions	420 x 465 x 800 mm
Net Weight	44 kg
Rated Voltage	230 V
Rated Power	2500 W
Rated Frequency	50 Hz
Max Working Temperature	1550 ℃
Protection Level	IP21
Fast Fuse	～500 V 32 A
Fuse	①: 2×～380 V/16 A ②: ～250 V/0.5 A ③: 250V/1 A
Heating rate	2-30 ℃

FLNTOven-GT1 Pro

Sintering Furnace



- **Accurate temperature control**
  PID intelligent temperature control with high accuracy.
- **Power-off memory function**
  Restart works from any curve of any program.
- **Energy-saving and environmentally friendly insulation materials**
  Good insulation effect ensures temperature uniformity during heating.
- **Pre-drying function**
  Save most of the white zirconia dyeing and drying time to achieve efficient and fast surface drying treatment.

Technical Parameters

Specification	Parameters
Rated Voltage/Frequency	230 V/50 Hz
Full load current	11.5A
Rated Power	2500W
Protection level	IP21
Heating rate	1-50℃
Built-in Editable Programs	200 Maximum
Working Temperature	1550℃
Dimensions	Length 42*Width 46.5*Height 80 (CM)
Net weight	45KG

FLNTOven-A7+

Porcelain Furnace



- Double-layer metal protection to the chamber
- Integrated vacuum technology
- Automatic platform lift mode
- Built-in error warning
- 2-Stage program to meet special sintering demands
- Temperature compensation
- Vacuum testing, cleaning, drying, and other maintenance procedures
- Unique, homogeneous heat distribution

Device Parameters

Specification	Parameters
Dimensions	330 x 420 x 560 mm
Weight	26 kg
Voltage	230 V/50 Hz
Protection Level	IPX1
Protective Tube1	3.0 A
Protective Tube2	8.0 A
Heating Rate	5～100 ℃
Max Working Temperature	1200 ℃
Constant Temperature Time	00:30-30:00 min
Chamber Available Sizes	φ85×55 (mm)
Ultimate Vacuum Degree	＜35 mmHg

FLNTOven-A7+ Pro

Porcelain Furnace

Double-layer metal chamber, excellent heat preservation performance.

Two-stage fire process which can crystallize blue porcelain blocks to meet the needs of chairside.



- Uses Fujiwara air pump from Japan to ensure perfect vacuum effect.
- Uses Swiss quartz configuration, heat more evenly, and the restoration is more transparent.
- Unique tempering cooling (slow cooling) function
- Extra large touch LCD screen and built-in 200 editable programs.
- Built-in cooling function and temperature compensation function
- Double valve control system to ensure better fire results and reduce the load of the furnace.

Technical Parameters

Rated Voltage/Frequency	230 V/50 Hz
Full Load Current	6.5 A
Max Input Power	1200 W+350 W
Protection Level	IPX1
Heating Rate	1-100 ℃
Final Vacuum	VMAX=97%
Maximum Working Temperature	1150 ℃
Usable Chamber Size	85 x 55 (mm)
Dimensions (W*L*H)	33 x 42 x 56 (cm)
Net Weight	27 kg

UPCERA HiFi Series

Reliable Furnace Expert
For Lab Side



UPCERA HiFi Fire

Firing Furnace

Intuitive Operating System,
Customized Exclusive
Security Program

High-Quality
Craftsmanship

Durable
Stability

Applications	with vacuum	without vacuum
Fire	✓	✓
Press	–	–
Sinter	–	–
Glaze	✓	✓
Crystallize	✓	✓
infiltrate	✓	✓



SIZE (W x H x D)	383 x 653 x 343 mm
WEIGHT	17.5 kg
POWER CONSUMPTION	95-105V / 50-60Hz or 110-125V / 50-60 Hz or 220-240V / 50-60 Hz
P (max)	1500 W
T (max)	1200 ℃

- Even heat distribution through closed chamber design and automatic control of the drying and cooling to optimize aesthetics
- Individually selectable drying positions of the lift
- UPCERA HiFi Fire's specific fring chamber concept for excellent firing results in all temperature ranges
- Thermocouple made of platinum/platinum-rhodium, purest quality with an accuracy of measurement far below 0.5 ℃
- Variable vacuum switch-on point, independent of preheating temperature
- Access to more than 100.000 firings, pressing, and sinteringprograms of all manufacturers of dental ceramics online

UPCERA HiFi Sinter

Sintering Furnace

1 hour ultra-fast sintering,
efficient and productive

Ultrafast Sintering

Handling of up to 80 units

Applications	with vacuum	without vacuum
Fire	–	–
Press	–	–
Sinter	–	✓
Glaze	–	✓
Crystallize	–	✓
infiltrate	–	–



SIZE (W x H x D)	383 x 780 x 343 mm
WEIGHT	24 kg
POWER CONSUMPTION	220-224V / 50-60Hz
P (max)	2000 W
T (max)	1560 °C

- Already prepared for ultrafast cycles below 1 hour
- High-temperature precision thermocouple design, suitable for speeding without overshooting the temperature
- UPCERA HiFi Sinter's tray system with up to 2 levels (Ø 3,94'' per level), invented for speeding or easy handling of up to 80 units
- The high-quality SiC heating technology ensures a brilliant result
- Absolutely clean – no purge cycles necessary Nonstop – start subsequent cycles immediately
- Access to more than 100.000 firings, pressing, and sintering pro all manufacturers of dental ceramics online

UPCERA HiFi Press

Press Furnace

Fully Automated Press Process, Simultaneous Multicolor Press Casting

Patented unique system

Optimizing Throughput Press up to 3 different shades in one go

Applications	with vacuum	without vacuum
Fire	✓	✓
Press	✓	✓
Sinter	–	–
Glaze	✓	✓
Crystallize	✓	✓
infiltrate	✓	✓



SIZE (W x H x D)	383 x 653 x 343 mm
WEIGHT	22 kg
POWER CONSUMPTION	95-105V / 50-60Hz or 110-125V / 50-60 Hz or 220-240V / 50-60 Hz
P (max)	1500 W
T (max)	1200 °C

- Automatic control of the drying and cooling to optimize aesthetics
- Even heat distribution through closed chamber design
- Even heat distribution over all surfaces of the investment ring which provides for exceptional aesthetics
- Besides all common ring systems, press up to 20g with the exclusive DEKEMA trixpress™ ring system
- Press up to 3 different shades in one go, optimizing throughput
- Access to more than 100.000 firings, pressing. and sintering programs of all manufacturers of dental ceramics through online

FLNTSaug-R-407-1
FLNTSaug-R-412

Vacuum Cleaner



- Compact and portable design with strong suction which is up to 24 m/s
- Using step-less variable speed brushless motor, ensure the quality and more than 20000 hours running time
- Running under ultra-silence conditions, the noise is lower than 65 dB
- Long service life, high efficiency, 8μm particles can be filtrated, easy to maintain, easy to clean up

Device Parameters

Model	FLNTSaug-R-407-1
Dimension(cm)	460 x 430 x 665 mm
Weight	32 kg
Rated Voltage	230 V
Rated Current	AC 5.5 A (Max)
Power	1100 W (Max)
Rated Frequency	50 Hz
Negative Pressure	9.6 KPa (Ø50 mm)
Rate of Air Flow	4.82 m³/miniute (Ø50mm)
Noise dB	＜65 dB
Vacuum Port	2

Model	FLNTSaug-R-412
Dimension(cm)	470 x 430 x 600 mm
Weight	30 kg
Rated Voltage	230 V
Rated Current	AC 0.7A
Power	150 W
Rated Frequency	50 Hz
Negative Pressure	4.2 KPa (Ø50 mm)
Rate of Air Flow	3.17 m³/miniute (Ø50 mm)
Noise dB	＜62 dB
Vacuum Port	1

CORPORATE CERTIFICATION

