



## Zirdent Biotechnology Co.,Ltd.

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## PRODUCT CATALOG

MAKE SMILE EASIER

# Let more people use safe & comfortable materials



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# COMPANY PROFILE

Zirdent established in 2020, specializing in premium dental zirconia blocks manufacturer.

We have 7,600 m<sup>2</sup> manufacturing center in Hunan, China, with 100+ professional employees commitment to the field of inorganic non-metallic material ceramics. Zirdent produces 60,000 zirconia blocks monthly, using 100% Sinocera® powder, offering different translucent zirconia blocks: white, preshaded, and multilayer zirconia, including the acclaimed 3D-Pro-ML.

Zirdent has long been committed to the research and development, production, and export sales of dental laboratory materials. With over 2 million successful dental cases globally, Zirdent has earned recognition for its aesthetic excellence. The company's R&D team ensures quality through over 100 tests per batch.

Zirdent is committed to its vision of "Let more people use safe & comfortable materials", and aims to be the 'All-in-one zirconia block expert,' upholding values of customer service, innovation, and responsibility, with the slogan 'Make smile easier.' Certified with CE under MDR, FDA Cleared and ISO 13485:2016, Zirdent is dedicated to dental industry excellence.



CE under MDR



ISO 13485



FDA



Long-term Trusted Partners



Customized Sinocera Powder Partner

2004

Zirdent parent company  
Denjoy Dental Co., established

2004

China first Apex locator

2007

China first Pulp tester

2009

China first GP obturation  
system

2013

China first wireless Endo  
motor

2020

Denjoy establishment of  
subsidiary company  
Zirdent with new products  
of zirconia blocks

2024

Zirdent completed relocation  
to new factory on March 2

2025

Zirdent get a certificate  
CE under MDR

# Zirconia List



3D-Pro-ML



3D Ultra



3D



ST-ML



SHT-C



ST-C



SHT



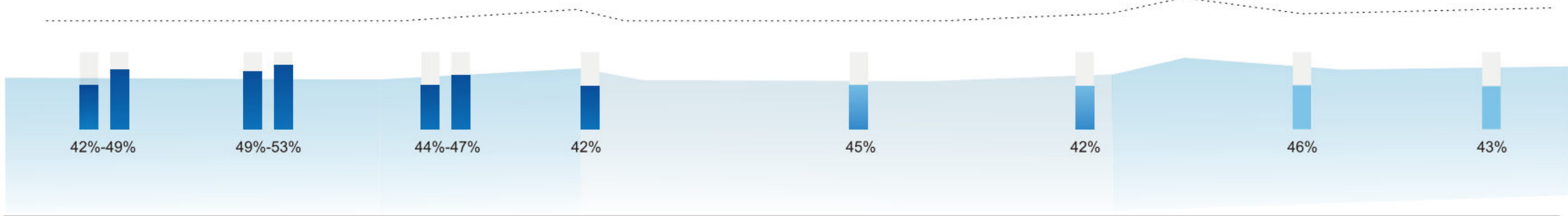
ST

## MULTILAYER

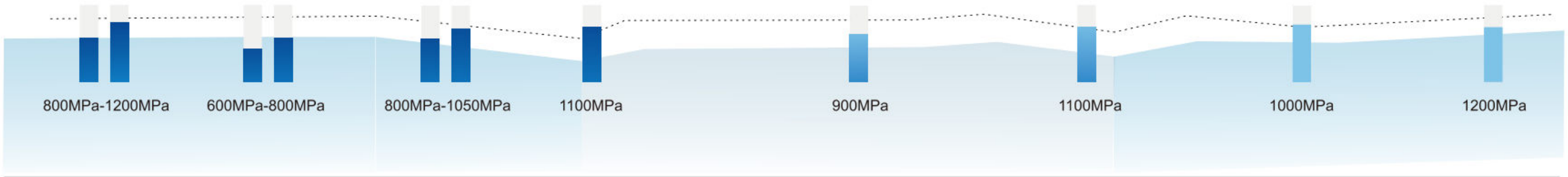
## PRESHADE WHITE



Translucency



Strength



Shade

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

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

A1,A2,A3  
B1,B2  
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

white

# Indication Guide

| Indications                                                                                                                                | 3D-Pro-ML | 3D Ultra | 3D | ST-ML | SHT-C | ST-C | SHT | ST |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----|-------|-------|------|-----|----|
|  anterior coping                                          | ✓         | ✓        | ✓  | ★     | ★     | ★    | ★   | ★  |
|  anterior full contour crown                              | ★         | ★        | ★  | ✓     | ×     | ×    | ×   | ×  |
|  anterior coping bridge (3-unit-bridge)                   | ✓         | ✓        | ✓  | ★     | ★     | ★    | ★   | ★  |
|  anterior full contour crown bridge (3-unit-bridge)       | ★         | ★        | ★  | ✓     | ×     | ×    | ×   | ×  |
|  posterior full contour crown                             | ✓         | ✓        | ★  | ★     | ★     | ★    | ★   | ★  |
|  posterior full contour crown bridge (3-unit-bridge)    | ✓         | ×        | ★  | ★     | ★     | ★    | ★   | ★  |
|  implant abutment bridge                                | ✓         | ×        | ✓  | ★     | ★     | ★    | ★   | ★  |
|  implant full crown                                     | ★         | ×        | ★  | ★     | ★     | ★    | ✓   | ×  |
|  Maryland bridge                                        | ★         | ×        | ✓  | ★     | ✓     | ✓    | ×   | ×  |
|  full contour zirconia bridge (more than 4-unit-bridge) | ★         | ×        | ✓  | ★     | ✓     | ✓    | ✓   | ✓  |
|  Inlay                                                  | ✓         | ★        | ★  | ★     | ★     | ★    | ★   | ✓  |
|  Veneer                                                 | ★         | ★        | ★  | ×     | ×     | ×    | ×   | ×  |

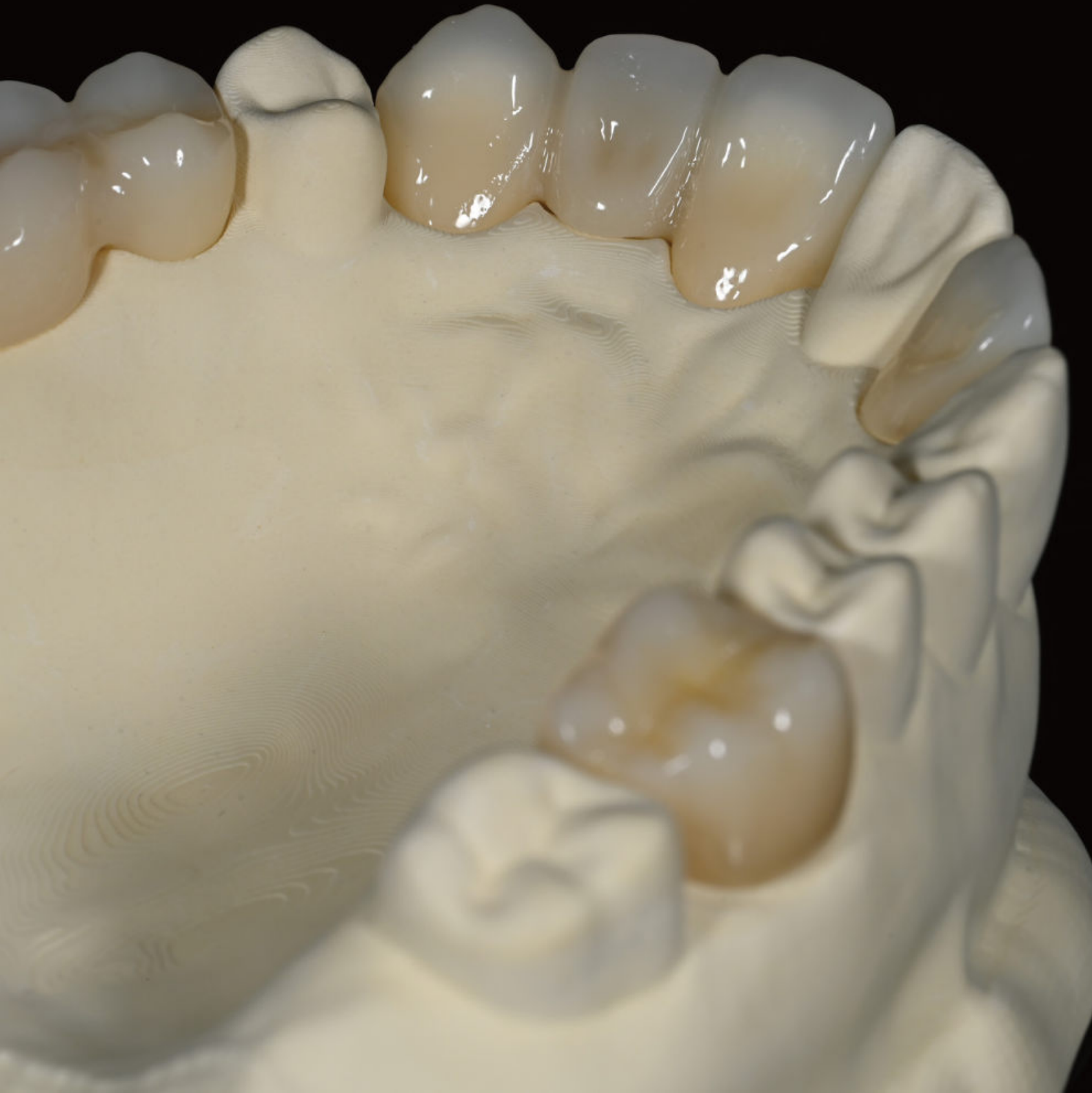
★ Highly recommended

✓ Available for this indication

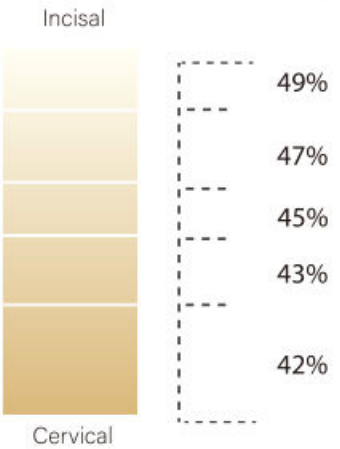
× Not indicated

# 3D-Pro-ML

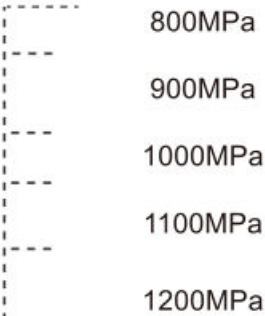
- Safe and comfortable, we use 100% Sinocera Powder
- High translucency and gradient
- Flexural strength and translucency



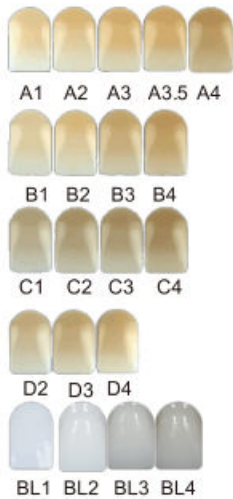
## Translucency



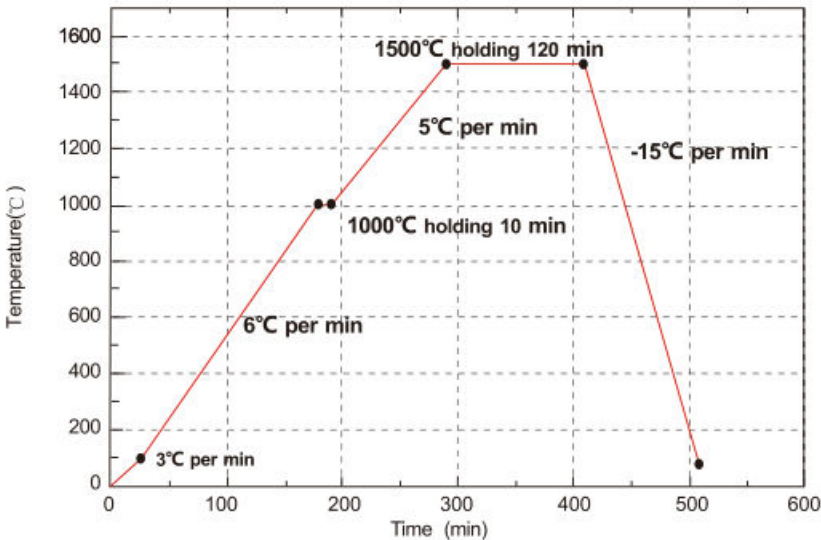
## Flexural Strength



## Shade



## General Sintering



| Physical Characteristics |                                | Chemical Components                                               |           |
|--------------------------|--------------------------------|-------------------------------------------------------------------|-----------|
| Density After Sintering  | 6.07±0.02(g/cm <sup>3</sup> )  | ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub> | ≥99%      |
| Fracture Toughness       | 5.0-6.5(MPa.m <sup>1/2</sup> ) | Y <sub>2</sub> O <sub>3</sub>                                     | 4.5%-8.0% |
| Hardness                 | 1250-1350(HV10)                | Al <sub>2</sub> O <sub>3</sub>                                    | <0.15%    |
| Sintering Temperature    | 1480-1530<br>Recommend 1500    | Other Oxide                                                       | <0.5%     |

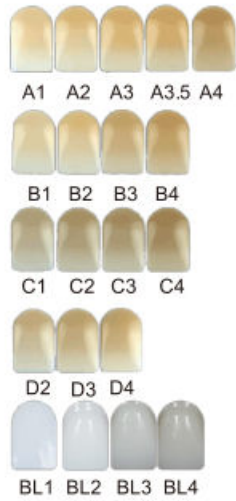
# 3D Ultra

- Safe and comfortable,we use 100% Sinocera Powder.
- Born for Anterior Aesthetics.
- Flexural strength and translucency

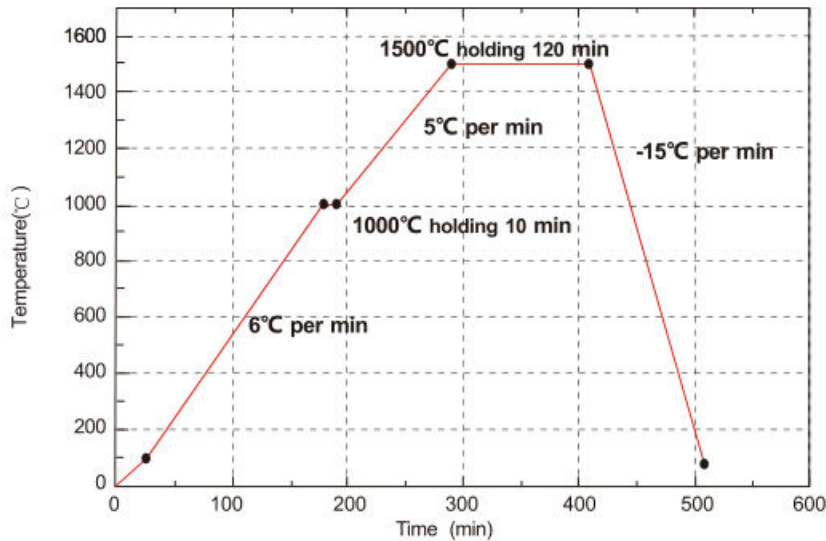


|              |                                                                         |
|--------------|-------------------------------------------------------------------------|
| Size         | 98mm、 95mm、 92*75mm                                                     |
| Translucency | 49%-53%                                                                 |
| Strength     | 600MPa-800MPa                                                           |
| Thickness    | 10,12,14,16,18,20,22,25mm                                               |
| Shade        | A1 A2 A3 A3.5 A4 B1 B2 B3 B4<br>C1 C2 C3 C4 D2 D3 D4<br>BL1 BL2 BL3 BL4 |

## Shade



## General Sintering



| Physical Characteristics |                                | Chemical Components                                               |            |
|--------------------------|--------------------------------|-------------------------------------------------------------------|------------|
| Density After Sintering  | 6.06±0.02(g/cm <sup>3</sup> )  | ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub> | ≥99%       |
| Fracture Toughness       | 3.5-5.0(MPa.m <sup>1/2</sup> ) | Y <sub>2</sub> O <sub>3</sub>                                     | 8.0%-10.0% |
| Hardness                 | 1150-1250(HV10)                | Al <sub>2</sub> O <sub>3</sub>                                    | <0.15%     |
| Sintering Temperature    | 1480-1530<br>Recommend 1500    | Other Oxide                                                       | <0.5%      |

# 3D

- Safe and comfortable, we use 100% Sinocera Powder
- Better aesthetics, 4 overlays, 7 gradients
- More demanding material selection than ST multilayer aesthetic restoration

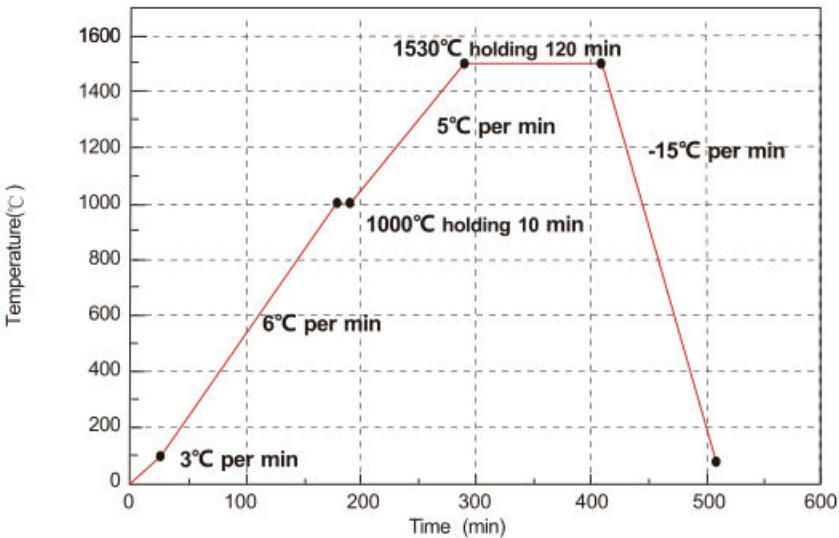


|              |                                                                         |
|--------------|-------------------------------------------------------------------------|
| Size         | 98mm、95mm、92*75mm                                                       |
| Translucency | 44%-47%                                                                 |
| Strength     | 800MPa-1050MPa                                                          |
| Thickness    | 10,12,14,16,18,20,22,25mm                                               |
| Shade        | A1 A2 A3 A3.5 A4 B1 B2 B3 B4<br>C1 C2 C3 C4 D2 D3 D4<br>BL1 BL2 BL3 BL4 |

## Shade



## General Sintering



| Physical Characteristics |                                | Chemical Components                                               |           |
|--------------------------|--------------------------------|-------------------------------------------------------------------|-----------|
| Density After Sintering  | 6.08±0.01(g/cm <sup>3</sup> )  | ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub> | ≥99%      |
| Fracture Toughness       | 5.3-6.3(MPa.m <sup>1/2</sup> ) | Y <sub>2</sub> O <sub>3</sub>                                     | 6.5%-8.0% |
| Hardness                 | 1270-1330(HV10)                | Al <sub>2</sub> O <sub>3</sub>                                    | <0.15%    |
| Sintering Temperature    | 1500-1550<br>Recommend 1530    | Other Oxide                                                       | <0.5%     |

# ST

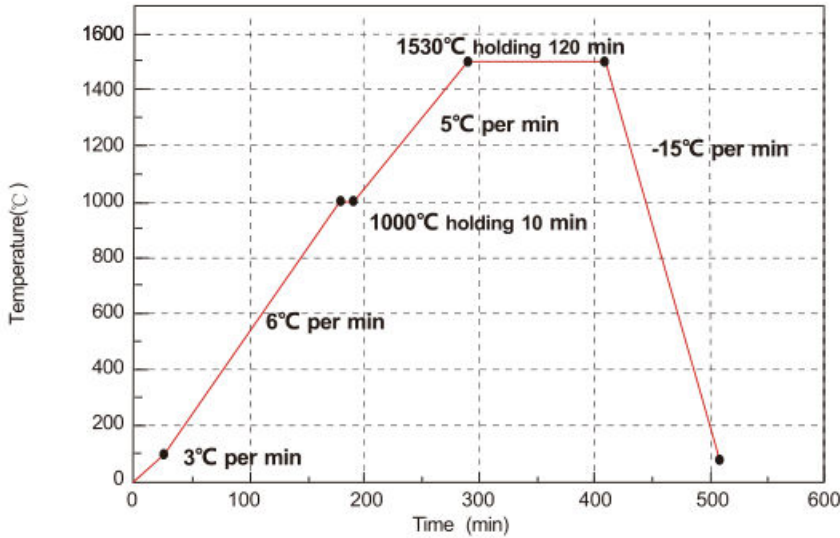
- Good white zirconia consideration for crowns and bridges
- The most commonly used white block material preferred
- Both aesthetics and strength performance indicators



|              |                           |
|--------------|---------------------------|
| Size         | 98mm、95mm、92*75mm         |
| Translucency | 43%                       |
| Strength     | 1200MPa                   |
| Thickness    | 10,12,14,16,18,20,22,25mm |
| Shade        | White                     |

\*Vita 16 shades (with Zirdent Coloring Liquid)

## General Sintering



| Physical Characteristics |                               | Chemical Components                                               |           |
|--------------------------|-------------------------------|-------------------------------------------------------------------|-----------|
| Density After Sintering  | 6.09±0.01(g/cm <sup>3</sup> ) | ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub> | ≥99%      |
| Fracture Toughness       | 6.5(MPa.m <sup>1/2</sup> )    | Y <sub>2</sub> O <sub>3</sub>                                     | 4.5%-6.0% |
| Hardness                 | 1350(HV10)                    | Al <sub>2</sub> O <sub>3</sub>                                    | <0.15%    |
| Sintering Temperature    | 1500-1550<br>Recommend 1530   | Other Oxide                                                       | <0.15%    |

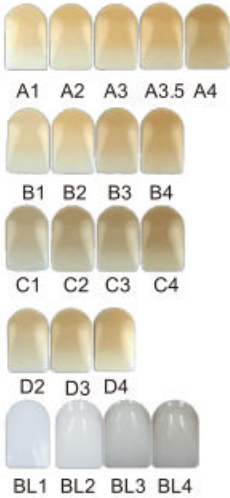
# ST-C

- Safe and comfortable,we use 100% Sinocera Powder
- A better aesthetic restoration material suitable for a higher requirement on translucency
- Both aesthetics and strength performance indicators

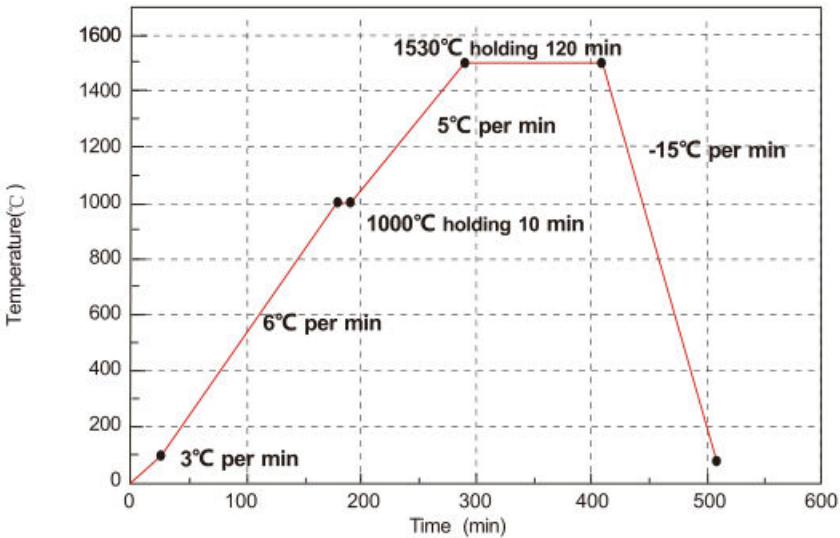


|              |                                                                         |
|--------------|-------------------------------------------------------------------------|
| Size         | 98mm、 95mm、 92*75mm                                                     |
| Translucency | 42%                                                                     |
| Strength     | 1100MPa                                                                 |
| Thickness    | 10,12,14,16,18,20,22,25mm                                               |
| Shade        | A1 A2 A3 A3.5 A4 B1 B2 B3 B4<br>C1 C2 C3 C4 D2 D3 D4<br>BL1 BL2 BL3 BL4 |

## Shade



## General Sintering



| Physical Characteristics |                               | Chemical Components                                               |           |
|--------------------------|-------------------------------|-------------------------------------------------------------------|-----------|
| Density After Sintering  | 6.09±0.01(g/cm <sup>3</sup> ) | ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub> | ≥99%      |
| Fracture Toughness       | 6.5(MPa.m <sup>1/2</sup> )    | Y <sub>2</sub> O <sub>3</sub>                                     | 4.5%-6.0% |
| Hardness                 | 1350(HV10)                    | Al <sub>2</sub> O <sub>3</sub>                                    | <0.15%    |
| Sintering Temperature    | 1500-1550<br>Recommend 1530   | Other Oxide                                                       | <0.5%     |

# ST-ML

- Safe and comfortable,we use 100% Sinocera Powder
- Multifunction aesthetic zirconia
- Balance for Translucency and Strength

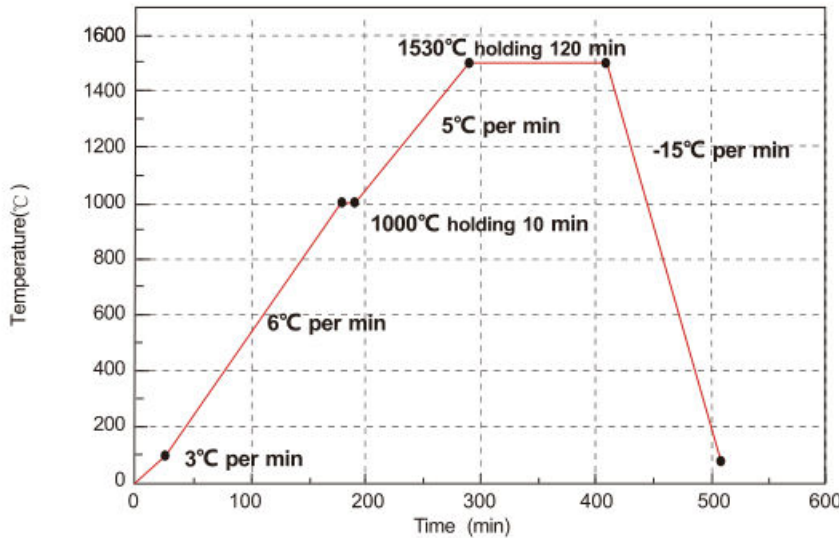


|              |                                                                         |
|--------------|-------------------------------------------------------------------------|
| Size         | 98mm、 95mm、 92*75mm                                                     |
| Translucency | 42%                                                                     |
| Strength     | 1100MPa                                                                 |
| Thickness    | 10,12,14,16,18,20,22,25mm                                               |
| Shade        | A1 A2 A3 A3.5 A4 B1 B2 B3 B4<br>C1 C2 C3 C4 D2 D3 D4<br>BL1 BL2 BL3 BL4 |

## Shade



## General Sintering



| Physical Characteristics |                               | Chemical Components                                               |           |
|--------------------------|-------------------------------|-------------------------------------------------------------------|-----------|
| Density After Sintering  | 6.09±0.01(g/cm <sup>3</sup> ) | ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub> | ≥99%      |
| Fracture Toughness       | 6.5(MPa.m <sup>1/2</sup> )    | Y <sub>2</sub> O <sub>3</sub>                                     | 4.5%-6.0% |
| Hardness                 | 1350(HV10)                    | Al <sub>2</sub> O <sub>3</sub>                                    | <0.15%    |
| Sintering Temperature    | 1500-1550<br>Recommend 1530   | Other Oxide                                                       | <0.5%     |

SHT

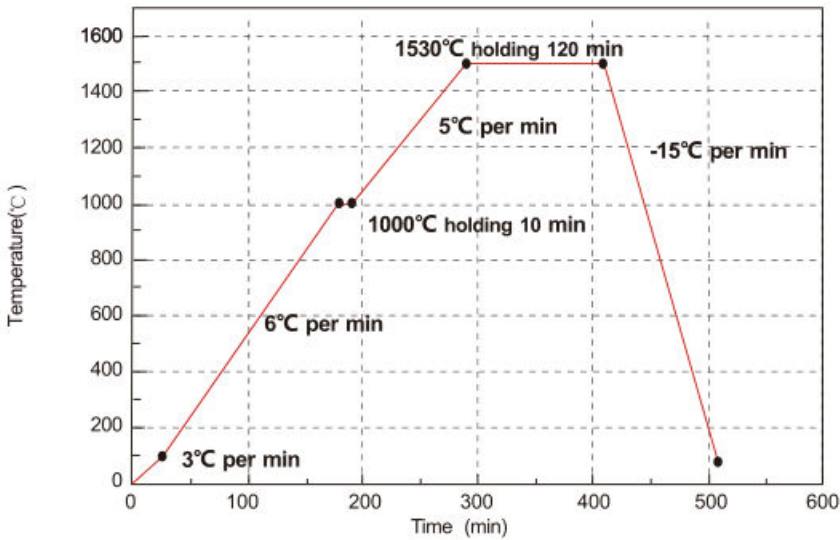
- Good white zirconia consideration for crowns and bridges
- Higher light transmittance, better aesthetic effect
- Material selection for demanding aesthetic restorations



|              |                           |
|--------------|---------------------------|
| Size         | 98mm、 95mm、 92*75mm       |
| Translucency | 46%                       |
| Strength     | 1000MPa                   |
| Thickness    | 10,12,14,16,18,20,22,25mm |
| Shade        | White                     |

\*Vita 16 shades (with Zirdent Coloring Liquid)

General Sintering



| Physical Characteristics |                               | Chemical Components                                               |           |
|--------------------------|-------------------------------|-------------------------------------------------------------------|-----------|
| Density After Sintering  | 6.08±0.01(g/cm <sup>3</sup> ) | ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub> | ≥99%      |
| Fracture Toughness       | 5.7(MPa.m <sup>1/2</sup> )    | Y <sub>2</sub> O <sub>3</sub>                                     | 7.0%-7.8% |
| Hardness                 | 1300(HV10)                    | Al <sub>2</sub> O <sub>3</sub>                                    | <0.15%    |
| Sintering Temperature    | 1500-1550<br>Recommend 1530   | Other Oxide                                                       | <0.15%    |

SHT-C

- Safe and comfortable, we use 100% Sinocera Powder
- Higher light transmittance, better aesthetic effect
- Material selection for demanding aesthetic restorations

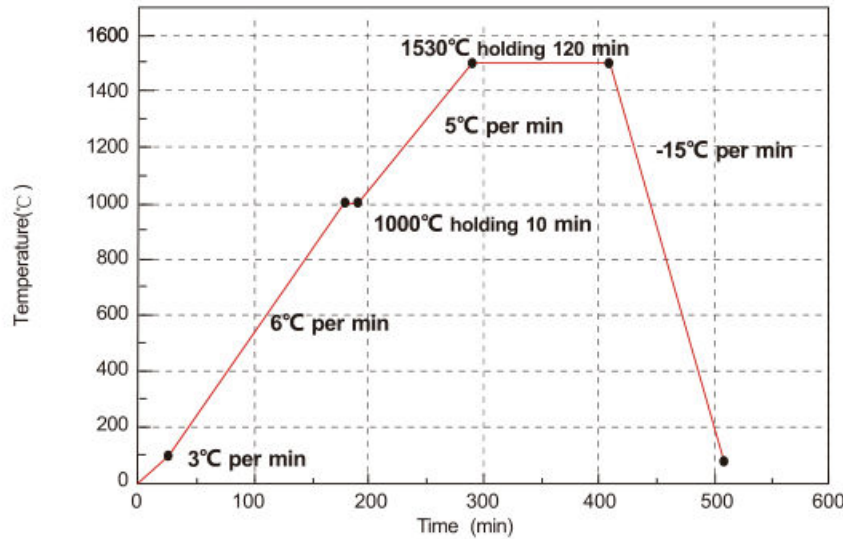


|              |                                        |
|--------------|----------------------------------------|
| Size         | 98mm、 95mm、 92*75mm                    |
| Translucency | 45%                                    |
| Strength     | 900MPa                                 |
| Thickness    | 10,12,14,16,18,20,22,25mm              |
| Shade        | A1 A2 A3 A3.5 B1 B2<br>BL1 BL2 BL3 BL4 |

Shade



General Sintering



| Physical Characteristics |                               | Chemical Components                                               |           |
|--------------------------|-------------------------------|-------------------------------------------------------------------|-----------|
| Density After Sintering  | 6.08±0.01(g/cm <sup>3</sup> ) | ZrO <sub>2</sub> +HfO <sub>2</sub> +Y <sub>2</sub> O <sub>3</sub> | ≥99%      |
| Fracture Toughness       | 5.7(MPa.m <sup>1/2</sup> )    | Y <sub>2</sub> O <sub>3</sub>                                     | 7.0%-7.8% |
| Hardness                 | 1300(HV10)                    | Al <sub>2</sub> O <sub>3</sub>                                    | <0.15%    |
| Sintering Temperature    | 1500-1550<br>Recommend 1530   | Other Oxide                                                       | <0.5%     |



Restore the original color



| Category        | Dipping dentin                                                     | Capacity |
|-----------------|--------------------------------------------------------------------|----------|
| Coloring liquid | A1, A2, A3, A3.5, A4, B1, B2, B3, B4<br>C1, C2, C3, C4, D2, D3, D4 | 50ML     |
| Fossa           | O1,O2                                                              | 50ML     |
| Gingival        | P1,P2,P3                                                           | 50ML     |
| Incisal liquid  | Blue, Yellow                                                       | 50ML     |





Evolving Your Dental Practice with Our Groundbreaking Smile Enhancement Solutions!  
Optimizing Your Results And Attain a Professional Outcome Using The Zirdent Stain/Glaze Kit.  
The opalescent effect of teeth.



# Stain/Glaze Kit & Gum Kit

18 SPECIAL EFFECT COLORS  
& 6 GINGIVA COLORS

STAIN&GLAZE KIT,  
3D NATURAL SHADE



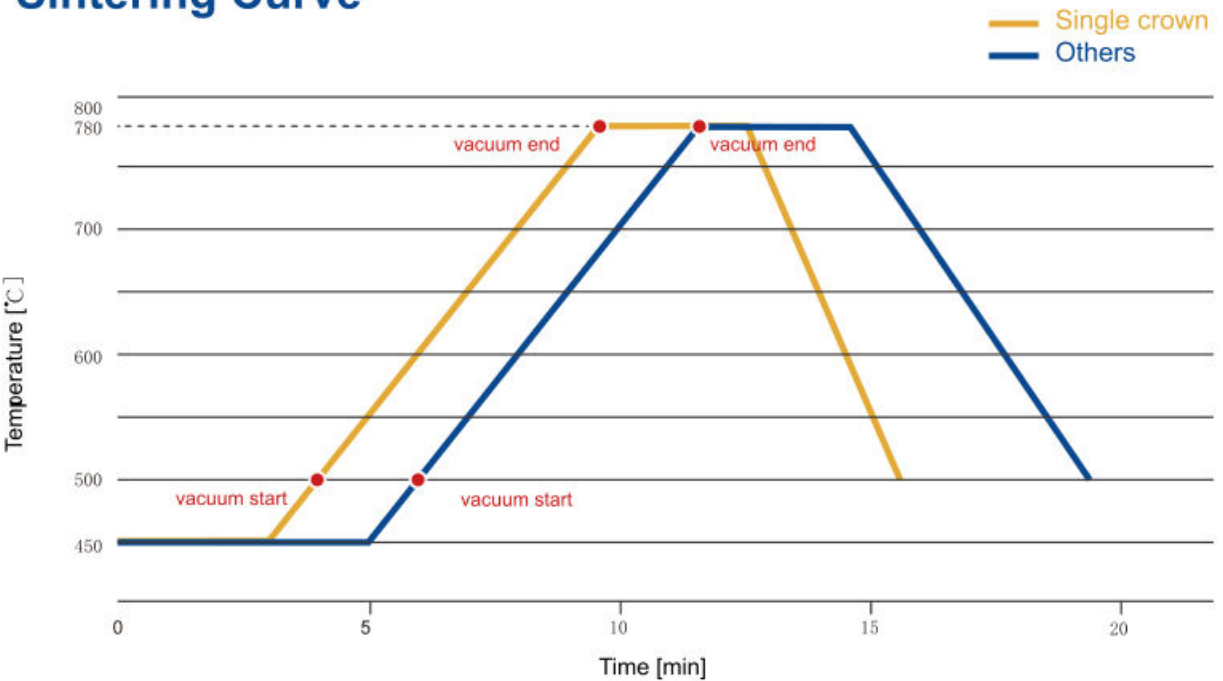
## Stain/Glaze



## Stain/Glaze Gum Kit



## Sintering Curve





Monolayer PMMA

- Easy to operate,stable and efficient
- Mills purely and polishes easily
- Excellent biocompatibility

Parameter

|               |                                                            |
|---------------|------------------------------------------------------------|
| System(mm)    | 98,95,92*75                                                |
| Thickness(mm) | 12,14,16,18,20,22,25                                       |
| Shade         | A1,A2,A3,A3.5,A4<br>B1,B2,B3,B4<br>C1,C2,C3,C4<br>D2,D3,D4 |



Wax

- Uniform layer color,stable performance
- Moderate hardness and softness

Parameter

|               |                       |
|---------------|-----------------------|
| System(mm)    | 98,95,92*75           |
| Thickness(mm) | 12,14,16,18,20,22,25  |
| Shade         | White,Blue,Green,Grey |

Multilayer PMMA

- Seamless gradient,natural and artistic
- Easy to operate,stable and efficient

Parameter

|               |                                                            |
|---------------|------------------------------------------------------------|
| System(mm)    | 98,95,92*75                                                |
| Thickness(mm) | 12,14,16,18,20,22,25                                       |
| Shade         | A1,A2,A3,A3.5,A4<br>B1,B2,B3,B4<br>C1,C2,C3,C4<br>D2,D3,D4 |



PEEK

- Easy to operate,Excellent biocompatibility
- Wonderful combination of elasticity and rigidity

Parameter

|               |                           |
|---------------|---------------------------|
| System(mm)    | 98,95,92*75               |
| Thickness(mm) | 12,14,16,18,20,22,25      |
| Shade         | White,Pink,Natural,Yellow |



# Zirident Milling Burs

We have various types of burs , which are divided into two surface coatings, one is DC material, which can engrave 300-500 single crowns. The other is DLC material, which can engrave 120-150 single crowns, can be used for zirconia blocks, pmma blanks, metal, glass ceramic

## 01 Compatible For Amann Girrbach System

|             |                    |
|-------------|--------------------|
| Size (mm)   | 0.3, 0.6, 1.0, 2.5 |
| Shank (mm)  | 3.0                |
| Length (mm) | 47.0               |
| Coating     | DLC,DC             |



## 02 Compatible For Imes-Icore System

|             |                         |
|-------------|-------------------------|
| Size (mm)   | 0.6, 1.0, 1.5, 2.0, 2.5 |
| Shank (mm)  | 3.0/6.0                 |
| Length (mm) | 48.0                    |
| Coating     | DLC,DC                  |



## 03 Compatible For Roland System

|             |                                   |
|-------------|-----------------------------------|
| Size (mm)   | 0.3, 0.5, 0.6, 1.0, 1.5, 2.0, 2.5 |
| Shank (mm)  | 4.0                               |
| Length (mm) | 50.0                              |
| Coating     | DLC,DC                            |



## 04 Compatible For Dentsply Sirona System

|             |               |
|-------------|---------------|
| Size (mm)   | 0.5, 1.0, 2.5 |
| Shank (mm)  | 3.0           |
| Length (mm) | 42.0          |
| Coating     | DLC,DC        |



## 05 Compatible For Wieland Mini System

|             |               |
|-------------|---------------|
| Size (mm)   | 0.7, 1.0, 2.5 |
| Shank (mm)  | 3.0           |
| Length (mm) | 35.0          |
| Coating     | DLC,DC        |



## 06 Compatible For VHF System

|             |               |
|-------------|---------------|
| Size (mm)   | 0.6, 1.0, 2.0 |
| Shank (mm)  | 3.0           |
| Length (mm) | 35.0 / 40.0   |
| Coating     | DLC,DC        |



## 07 Compatible For Yenadent System

|             |                    |
|-------------|--------------------|
| Size (mm)   | 0.3, 0.6, 1.0, 2.0 |
| Shank (mm)  | 4.0                |
| Length (mm) | 40.0               |
| Coating     | DLC,DC             |



## 08 Compatible For ZirkonZahn System

|             |                    |
|-------------|--------------------|
| Size (mm)   | 0.5, 0.6, 1.0, 2.0 |
| Shank (mm)  | 3.0 / 6.0          |
| Length (mm) | 57.0               |
| Coated      | DLC,DC             |



## Zircent Diamond Turbo Grinder

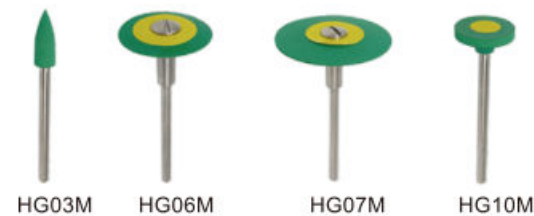
- Fine Grit
- 20000-35000rpm
- Max 35000rpm



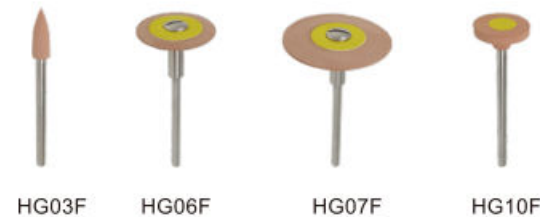
## Zircent Polishers

### 01 Polisher for zirconia

- Medium
- 15000-25000rpm
- Max 25000rpm

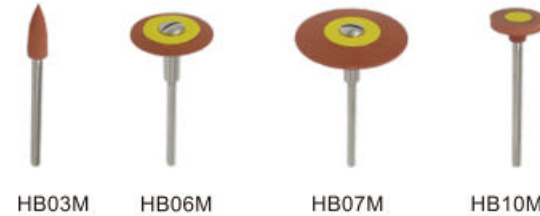


- Fine
- 10000-20000rpm
- Max 20000rpm



### 02 Polisher for lithium disilicate

- Medium
- 15000-25000rpm
- Max 25000rpm



- Fine
- 10000-20000rpm
- Max 20000rpm



## Zircent Polishing Kits



### Polishing kit for zirconia

- Peculiarity:  
The grinding speed is fast, the heat dissipation is fast, and the polishing effect is good. (No water cooling required!)
- RPM  
1) Ceramic grinding: 15000-20000/min  
2) The gray-white grinding: 10000-15000/min  
3) Yellow grinding head: 8000-12000/min

Caution:  
Without too much pressure, According to the recommended speed, with better effect.

### Polishing kit for lithium disilicates

- Peculiarity:  
The grinding speed is fast, the heat dissipation is fast, and the polishing effect is good. (No water cooling required!)
- RPM  
1) Ceramic grinding: 15000-20000/min  
2) The gray-white grinding: 10000-15000/min  
3) Yellow grinding head: 8000-12000/min

Caution:  
Please Control the pressure and rotate speed when grinding the connection channel between teeth and porcelain to avoid the damage of restoration, Pre-polishing is the base of highgloss polishing. So Pre-polishing is indispensable.

Optimize the grinding properties, long service life and maximum efficiency during grinding, polishing in your daily time, micro fractures within the cad/cam substructure. Gentle and pressure-free grinding allows perfect finishing and efficient removal of material.





CAD/CAM  
Equipment



Zirident-10S  
Sintering Furnace

- High quality temperature automatic adjustment function;
- Precision stepper motor drive, smooth free operation and no jitter;
- Fast sintering zirconia with full anatomical morphology.

Device Parameters

|                       |                                                   |                                         |
|-----------------------|---------------------------------------------------|-----------------------------------------|
| OPERATION             | The velocity of temperature increasing            | 200°C/min max                           |
|                       | The max temperature                               | 1550°C max                              |
|                       | The time which can be kept at the max temperature | 2H                                      |
| ELECTRIC POWER        | Operation range                                   | 100-120V 50/60HZ<br>230V 50/60HZ        |
|                       | Electric current                                  | 30ampere@110V<br>20ampere@230V          |
|                       | Power                                             | max 3000w                               |
| TYPICAL SPECIFICATION | WXDXH                                             | width 36cm<br>Depth 46cm<br>Height 59cm |
|                       | Usable measure (firing chamber)                   | 9cm                                     |
|                       | Net weight                                        | 40Kg                                    |
|                       | Weight include the package                        | 45Kg                                    |



True color touch screen  
easy to operate

## FS-001Z

### Fast Sintering Furnace

- 50 minutes fast sintering
- High quality temperature automatic adjustment function, to ensure the actual temperature error within +/- 1.5 degrees
- Low noise tray and the speed is programmable
- Automatic fast cooling technology

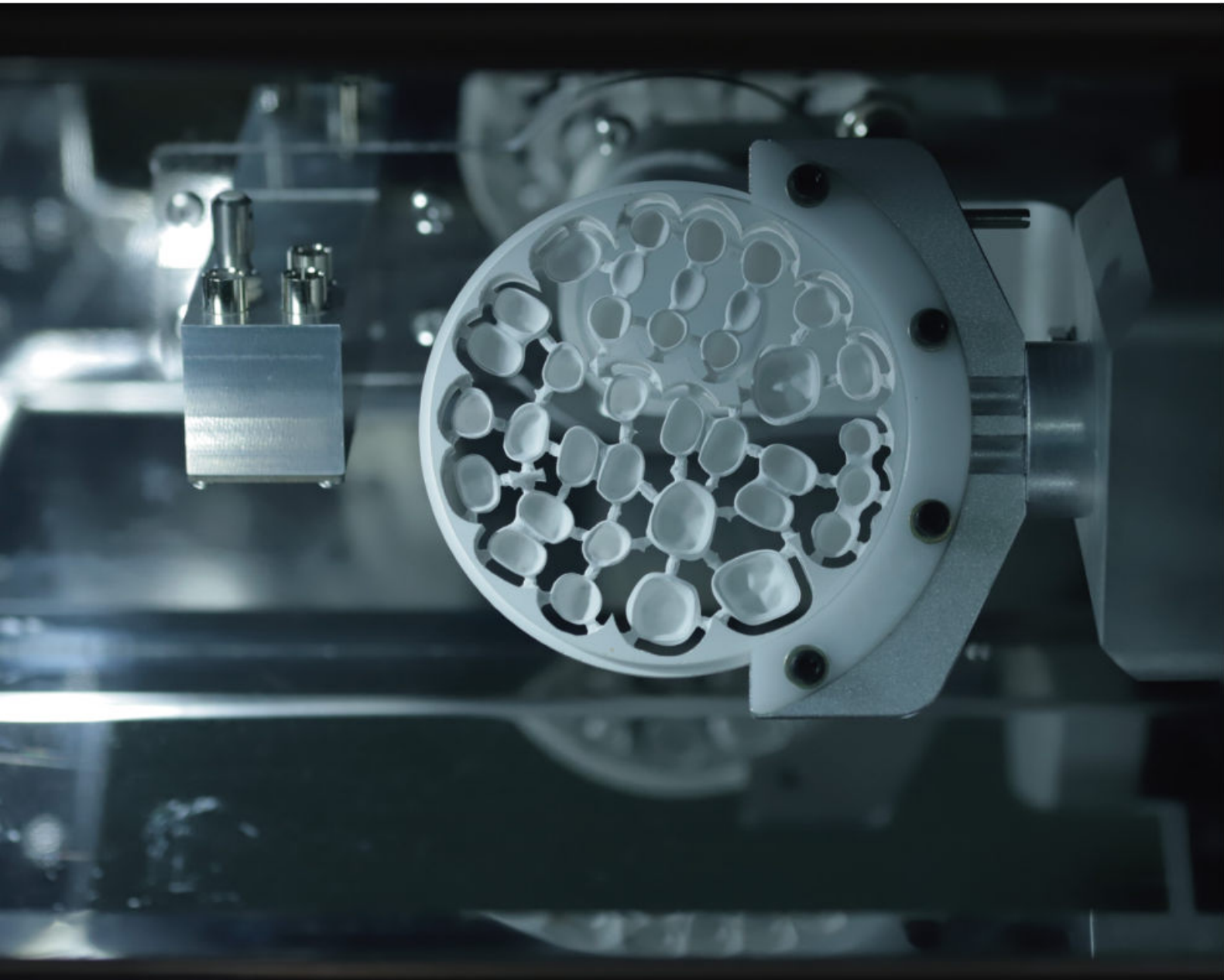


#### Device Parameters

|                              |                                               |
|------------------------------|-----------------------------------------------|
| WxDxH                        | Furnace 32*36* 56cm / Power unit 29*22*13.5cm |
| Net weight                   | Furnace20kg / Power unit 12kg                 |
| Usable measure               | 6.5cm                                         |
| Electric current             | 14.5A@110V / 7.0A@230V                        |
| Power                        | Max 1300w                                     |
| Operating range              | 100-120V 50/60HZ    230V 50/60HZ              |
| The max temperature          | 1530 ℃ max                                    |
| Heating rate                 | 200 ℃/min max                                 |
| Max temperature holding time | 2h46mins                                      |

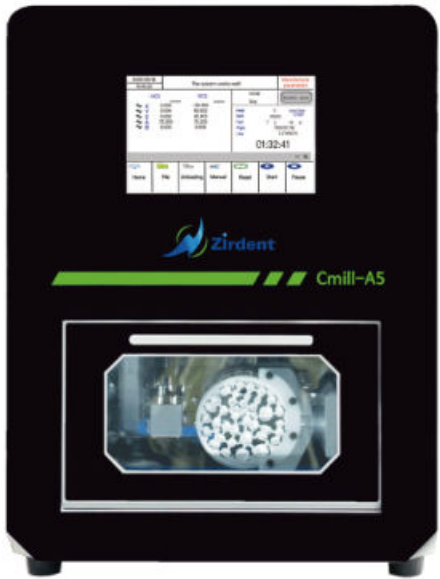
# Cmill-A5

## A5 5 Axis Dental Milling Machine



### Your ideal milling machine

- Dry milling, long life of main shaft,linkage of five axis
- Multi function fixture, excellent guarantee of maching accuracy
- Intelligent touch screen more convenient to operate
- Cloud remote control



### Available Material



ZIRCONIA



PMMA



WAX



PEEK

### Device Parameters

|                                                    |                                                                              |                       |                           |
|----------------------------------------------------|------------------------------------------------------------------------------|-----------------------|---------------------------|
| Axis                                               | 5axis                                                                        | Maimum spindle speed  | 60000r/min                |
| Input voltage                                      | AC 220V                                                                      | Operating power       | 1.75KW                    |
| Weight                                             | 83KG                                                                         | External size         | 630mm*500mm*655mm         |
| Cutting way                                        | Dry+vacuum cleaning                                                          | Compressed air        | 0.5-0.8mpa Clean Air      |
| Spindle cooling                                    | Air cooling                                                                  | Positionning accuracy | 0.005mm                   |
| Tool number                                        | 5                                                                            | Fixture               | Single disk: 98mm         |
| Tool change                                        | Automatic                                                                    | Product type          | coping/crown/bridge/inlay |
| Processing materials<br>Average<br>processing time | wax/zirconia/pmma : disk thickness 10-25mm<br>model:30-40min zirconia:6-8min |                       |                           |

# Cmill-A5Pro

## A5 5 Axis Dental Milling Machine

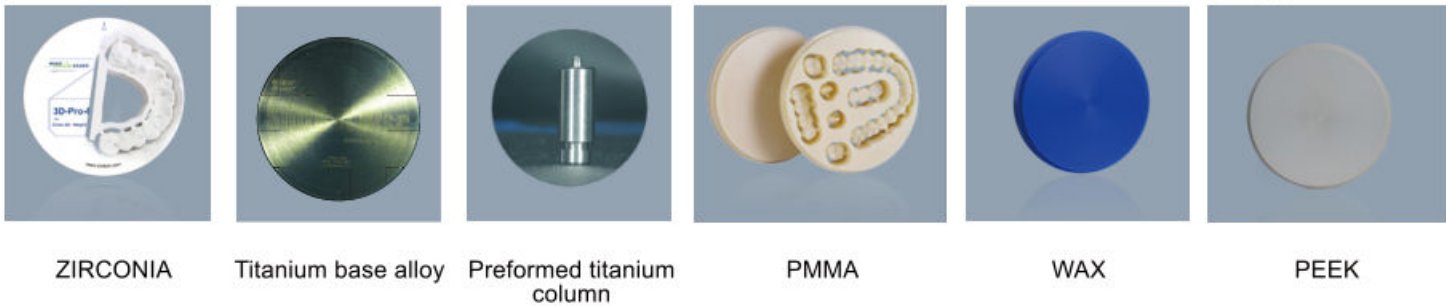


### Your ideal milling machine

- Wet cutting,long spindle life,five axis linkage.
- Multi function fixture,excellent guarantee of machining accuracy.
- It can quickly process rod clamp,complex angle bracket,etc, Large angle planting bridge,titanium column,titanium plate, glass ceramics,PEEK.
- Cloud remote control.



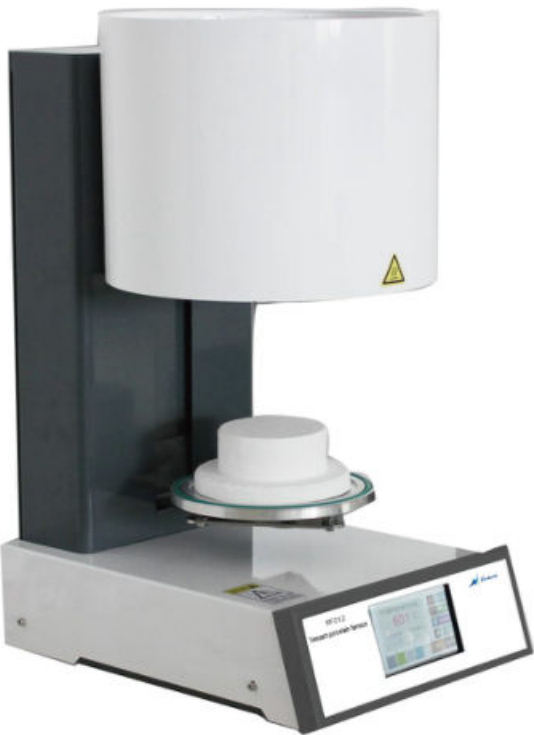
### Available Material



ZIRCONIA    Titanium base alloy    Preformed titanium column    PMMA    WAX    PEEK

### Device Parameters

|                                                 |                                                                                                                                                                                                        |                       |                                                                            |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------|
| Axis                                            | 5axis                                                                                                                                                                                                  | Maimum spindle speed  | 60000r/m                                                                   |
| Input voltage                                   | One-way communication 220V                                                                                                                                                                             | Operating power       | 2.84KW                                                                     |
| Weight                                          | 110KG                                                                                                                                                                                                  | External size         | 730mm*567mm*695mm                                                          |
| Cutting way                                     | water cutting                                                                                                                                                                                          | Processing range      | A-axis:360° B-axis:±30°                                                    |
| Spindle cooling                                 | Water cooling+Air cooling                                                                                                                                                                              | Positionning accuracy | 0.005mm                                                                    |
| Tool number                                     | 12                                                                                                                                                                                                     | Fixture               | single disk:φ98min<br>premilled abutment:4pieces<br>glass ceramic:2 pieces |
| Tool change                                     | Automatic                                                                                                                                                                                              | Product type          | coping/crown/bridge/inlay/<br>onlay/abutment/malo bridge/bar               |
| Processing materials<br>Average processing time | wax/ zirconia/ resin:disk thickness 10-25mm/ glass ceremic/ Ti glass ceramic:20-40min/<br>model:30-40min/ zirconia:6-8min/ Ti:15-30minabutment:30min,parial pemovadle,<br>overpress,premilled abutment |                       |                                                                            |



PF01Z

Porcelain Furnace

- Use real color touch screen, simple and easy to operate
- The porcelain color is more natural



Technically sophisticated,  
touch screen-controlled panel

Device Parameters

|                              |                                            |
|------------------------------|--------------------------------------------|
| WxDxH                        | Fruance27*36*53cm / Vacuum pump 25*13*18cm |
| Net weight                   | Furnace20kg / Vacuum pump10kg              |
| Electric current             | 14.5A@110V / 7.0A@230V                     |
| Power                        | Max 1500w                                  |
| Operating range              | 100-120V 50/60HZ 230V 50/60HZ              |
| The max temperature          | 1200 ℃ max                                 |
| Heating rate                 | 200 ℃/min max                              |
| Max temperature holding time | 2h46mins                                   |

PF-610Z

Press Furnace

- Fully compatible with standard specifications servo motor drive die casting.No compressed air needed,very good effect.



High margin accuracy  
Low failure probability

Device Parameters

|                              |                                           |
|------------------------------|-------------------------------------------|
| WxDxH                        | Fruance26*37*70cm / Vacuum pump25*13*18cm |
| Net weight                   | Furnace23kg / Vacuum pump:9.5kg           |
| Electric current             | 14.5A@110V / 7.0A@230V                    |
| Power                        | Max 1500w                                 |
| Operating range              | 100-120V 50/60HZ 230V 50/60HZ             |
| The max temperature          | 1200 ℃ max                                |
| Heating rate                 | 200 ℃/min max                             |
| Max temperature holding time | 2h46mins                                  |

ZDS-V5  
Intraoral Scanner

- ✓ Fast
- ✓ Accurate
- ✓ Intelligent



Product Advantages

- ✓ AI Smart Scanning
- ✓ Metal Scanning
- ✓ Scan Body Smart Matching
- ✓ Oral Health Report
- ✓ Case Cloud Sharing
- ✓ Orthodontic Simulation Function

Device Parameters

|                   |                                               |                            |                                  |
|-------------------|-----------------------------------------------|----------------------------|----------------------------------|
| Handpiece Size    | 243x40x32mm                                   | Quick Reset                | Yes                              |
| Connection        | Wired UBS3.0                                  | Model Optimization         | Model Optimization: Yes          |
| Handpiece Weight  | 160g (without cable)                          | Output Format              | STL, PLY (True Color), OBJ       |
| Depth of View     | 0-25mm                                        | Anti-fog Method            | Fan-cooling                      |
| Scanning Accuracy | Single Crown≤10um, Full Arch≤20um             | Calibration Tip            | 1 Set (Optional)g                |
| Scanner Tip       | 3 standard Tips/1 mini Tip/1 protective Cover | Product Lifespan           | 12 Years                         |
| Scanner Tip Size  | Standard 115x21x16mm/Mini 115x17x13mm         | Imaging Method             | Optical Continuous Video Capture |
| Scanning Area     | Standard 16x14mm/Mini 12x10mm                 | Image Mode Synchronization | 3D Video                         |



ZLS01  
Zirdent Lab Scanner

- Lab Scanner can support full-color texture scanning, Save Time For You,Speed Up Your Workflow.
- It can capture dental models or impressions, realizing seamless connection with CAD/CAM system and maximizing your work efficiency.
- High Accuracy, High Efficiency,Open system.

Applicable Model

- ✓ Impression
- ✓ Unseparated model
- ✓ Free Muti-Die
- ✓ Implant
- ✓ All-in-one
- ✓ Articulators

Device Parameters

|                      |                 |
|----------------------|-----------------|
| Resolution of camera | 1.6MP *2        |
| Light Source         | LED Blue Light  |
| Color Texture        | YES             |
| Output               | STL,PLY,OBJ     |
| Size                 | 370*280*430mm   |
| Weight               | 7kg             |
| Connection           | USB 3.0         |
| Power                | AC110-220V,50HZ |

## Customer Case show

