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UPCERA

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ZIRCONIA



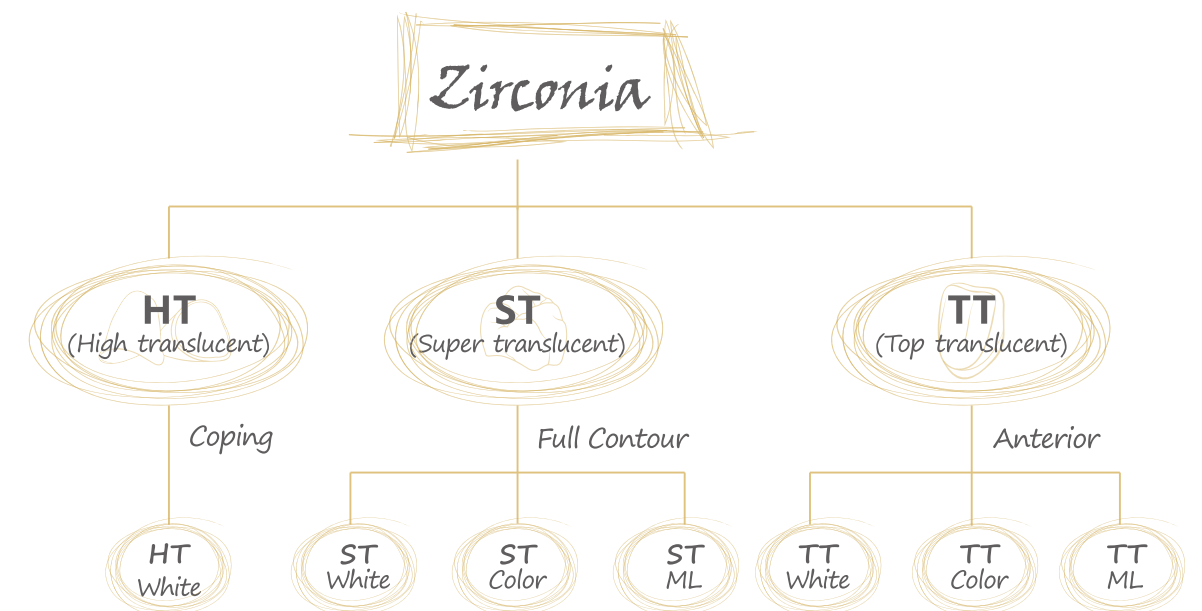
*China's No.1 manufacturer
of dental restorative materials*



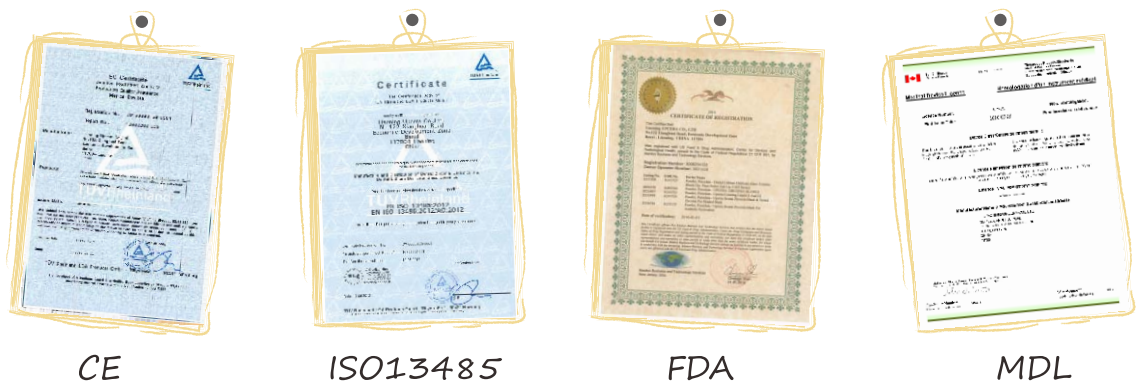
Be proud of UPCERA

-  UPCERA was established (2003)
-  World's biggest supplier of zirconia sleeves for optical fiber connector
-  China's 1st manufacturer certificated by CE, ISO13485, FDA and CFDA
-  China's 1st manufacturer of dental CAD/CAM milling machine (2010)
-  World's 1st manufacturer of 16 shades zirconia (2013)
-  China's 1st manufacturer of lithium disilicate glass ceramics (2014)
-  World's 1st manufacturer of multi-layered hybrid ceramics (2016)

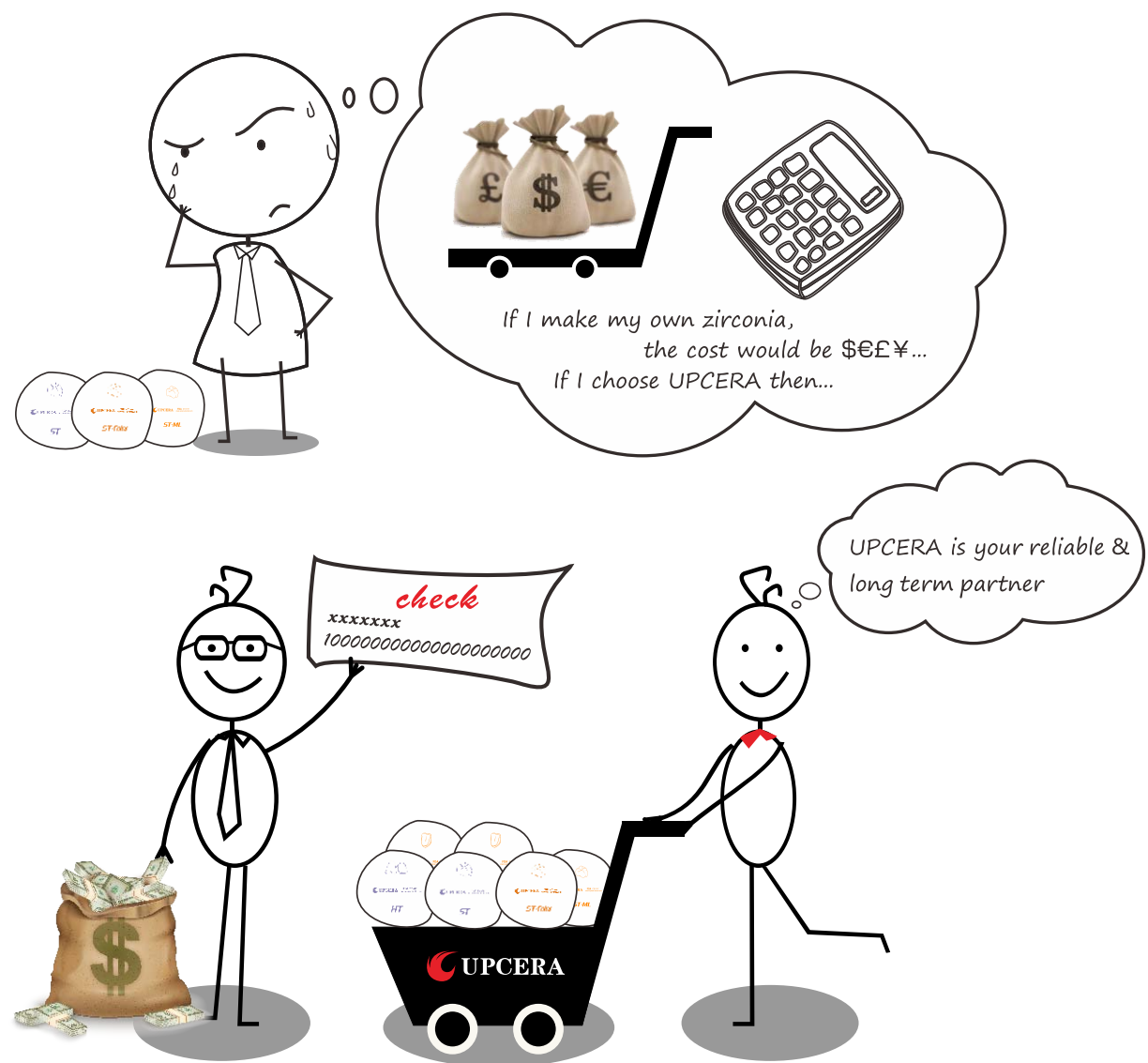
PRODUCT FAMILY



CERTIFICATION



WIN-WIN COOPERATION



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HT Blank

Features:

- Suitable for coping and framework
- Superior strength



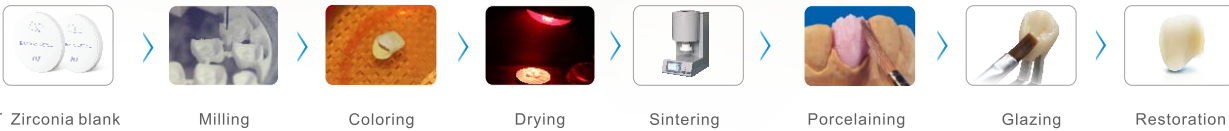
Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5%~6%
Al ₂ O ₃	≤0.5%
Others oxides	≤0.5%

Physical characteristics

Density after sintering (g/cm ³)	6.07±0.01
CTE (25-500°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 1200 (Av.)
Accelerated aging surface monoclinic phase content	< 10%
Average transmittance	39%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity (Bq/g)	< 0.1
Sintering temperature	1400~1580°C recommend1530°C

Procedures



Indications

Coping	✓
2-4 unit Bridges	✓
Bridges over 5 units (Less than3 sequential pontics for the anterior,Less than 2 sequential pontics for the posterior)	✓*
Cantilever bridge (Except the patient with bruxism)	✓
Inlay bridge (Except the patient with bruxism)	✓
Maryland bridge (Except the patient with bruxism)	✓
Telescopic crown	✓

- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended

ST Blank

Features:

- Suitable for full contour crown and bridge
- Perfect match with UPCERA ST 16 shade liquid



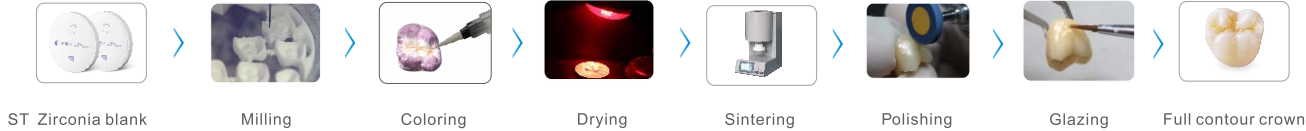
Chemical Composition

ZrO ₂ + HfO ₂ + Y ₂ O ₃	≥99%
Y ₂ O ₃	4.5%~6%
Al ₂ O ₃	≤0.5%
Others oxides	≤0.5%

Physical characteristics

Density after sintering (g/cm ³)	6.08±0.01
CTE(25-500°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 1200 (Av.)
Accelerated aging surface monoclinic phase content	< 15%
Average transmittance	43%
Chemical solubility after sintering(ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity (Bq/g)	< 0.1
Sintering temperature	1400~1580°C recommend1530°C

Procedures



Indications

Crown	✓
2-4 unit Bridges	✓
Bridges over 5 units (Less than3 sequential pontics for the anterior,Less than 2 sequential pontics for the posterior)	✓*
Cantilever bridge (Except the patient with bruxism)	✓
Inlay bridge (Except the patient with bruxism)	✓
Maryland bridge (Except the patient with bruxism)	✓
Telescopic crown	✓

- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended

ST-Color Blank

Features:

- Suitable for full contour crown and bridge
- No need coloring with VITA 16 shades



Chemical Composition

Nanometer zirconia powder	>98%
Fe ₂ O ₃	<0.3%
Pr ₂ O ₃	<0.2%
Er ₂ O ₃	<1.0%
Others oxides	<0.5%

Physical characteristics

Density after sintering (g/cm ³)	6.08±0.01
CTE (25-500°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 1100 (Av.)
Accelerated aging surface monoclinic phase content	< 15%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity (Bq/g)	<0.1
Sintering temperature	1450~1580°C recommend1530°C

Indications

Crown	✓
2-4 unit Bridges	✓
Bridges over 5 units (Less than 3 sequential pontics for the anterior, less than 2 sequential pontics for the posterior)	✓*
Cantilever bridge (Except the patient with bruxism)	✓
Inlay bridge (Except the patient with bruxism)	✓
Maryland bridge (Except the patient with bruxism)	✓
Telescopic crown	✓

- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended

Procedures



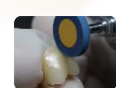
ST-Color blank



Milling



Sintering



Polishing



Glazing



Full contour crown

ST-Multilayer Blank

Features:

- Suitable for full contour crown and bridge
- Multi layer gradient with 7 popular shades



Chemical Composition

Nanometer zirconia powder	>98%
Fe ₂ O ₃	<0.3%
Pr ₂ O ₃	<0.2%
Er ₂ O ₃	<1.0%
Others oxides	<0.5%

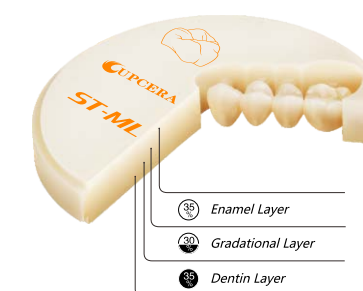
Physical characteristics

Density after sintering (g/cm ³)	6.08±0.01
CTE after sintering (25-200°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 1100 (Av.)
Accelerated aging surface monoclinic phase content	< 15%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity after sintering (Bq/g)	<0.1
Sintering temperature	1450~1580°C recommend1530°C

Indications

Crown	✓
2-4 unit Bridges	✓
Cantilever bridge (Except the patient with bruxism)	✓
Inlay bridge (Except the patient with bruxism)	✓
Maryland bridge (Except the patient with bruxism)	✓
Telescopic crown	✓

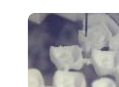
- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended



Procedures



ST Multilayer Blank



Milling



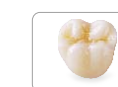
Sintering



Polishing



Glazing



Full contour crown

TT Blank

Features:

- Suitable for anterior restoration
- Superior glassy translucency



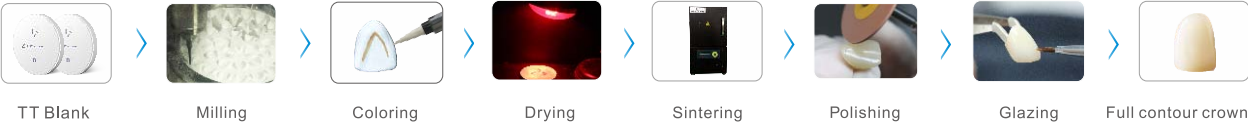
Chemical Composition

ZrO ₂ + HfO ₂	86.3% ~ 94.2%
Y ₂ O ₃	5.8%-9.7%
Er ₂ O ₃	<2%
Fe ₂ O ₃	<0.5%
Al ₂ O ₃	<0.5%
Others oxides	<0.5%

Physical characteristics

Density after sintering (g/cm ³)	≥6.0
CTE after sintering (25-200°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 600 (Av.)
Accelerated aging surface monoclinic phase content	< 5%
Average transmittance	49%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity after sintering (Bq/g)	<0.1
Sintering temperature	1430~1470°C recommend1450°C

Procedures



Indications

Crown	✓
2-3 unit Bridges	✓
Telescopic crown	✓
Veneer	✓

- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended



TT-Color Blank

Features:

- Suitable for anterior restoration
- Available for bleach shade



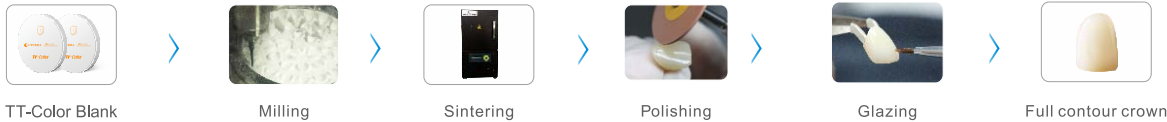
Chemical Composition

ZrO ₂ + HfO ₂	86.3% ~ 94.2%
Y ₂ O ₃	5.8%-9.7%
Er ₂ O ₃	<2%
Fe ₂ O ₃	<0.5%
Al ₂ O ₃	<0.5%
Others oxides	<0.5%

Physical characteristics

Density before sintering (g/cm ³)	≥ 6.0
CTE after sintering (25-200°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 600 (Av.)
Accelerated aging surface monoclinic phase content	< 5%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity after sintering (Bq/g)	<0.1
Sintering temperature	1430~1470°C recommend1450°C

Procedures



Indications

Crown	✓
2-3 unit Bridges	✓
Telescopic crown	✓
Veneer	✓

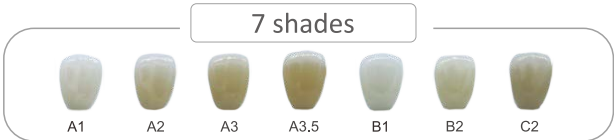
- ✓ recommended to make bridge
- ✓* can be made bridge but not recommended



TT-Multilayer Blank

Features:

- Suitable for anterior restoration
- Multi-layer gradient with 7 popular shades



Chemical Composition

ZrO ₂ + HfO ₂	86.3% ~ 94.2%
Y ₂ O ₃	5.8%-9.7%
Er ₂ O ₃	<2%
Fe ₂ O ₃	<0.5%
Al ₂ O ₃	<0.5%
Others oxides	<0.5%

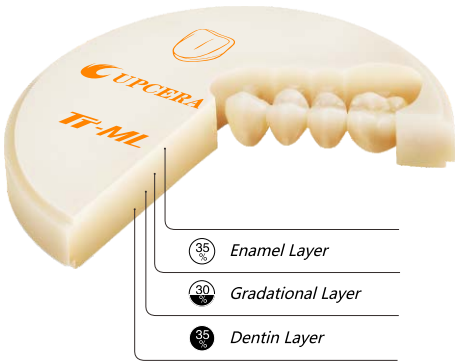
Physical characteristics

Density before sintering (g/cm ³)	≥ 6.0
CTE after sintering (25-200°C)	(10.5±1.0)×10 ⁻⁶ K ⁻¹
3-point flexural strength after sintering (Mpa)	> 600 (Av.)
Accelerated aging surface monoclinic phase content	< 5%
Chemical solubility after sintering (ug/cm ²)	< 100
Cytotoxicity test	Level 0
Radioactivity after sintering (Bq/g)	<0.1
Sintering temperature	1430~1470°C recommend1450°C

Indications

Crown	✓
2-3 unit Bridges	✓
Telescopic crown	✓
Veneer	✓

- ✓ recommended to make bridge
- ✓ can be made bridge but not recommended



Procedures



TT Multilayer Blank



Milling



Sintering



Polishing



Glazing



Full contour crown

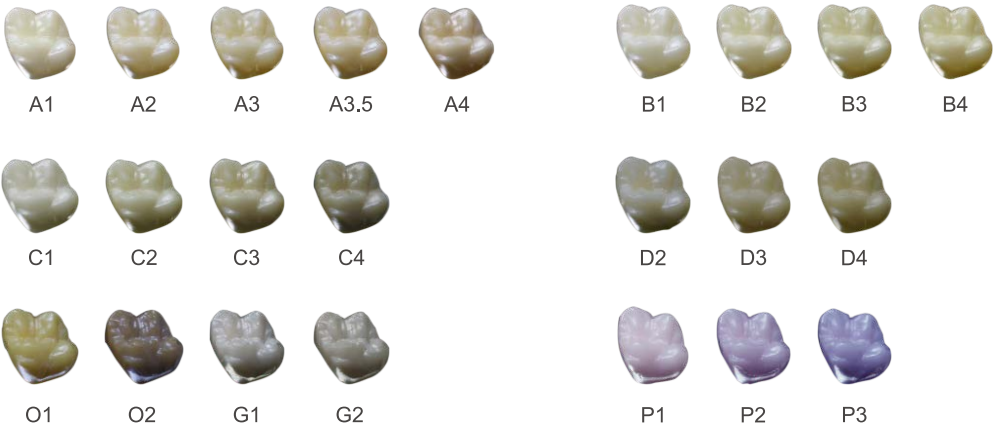
Coloring Solution

Features:

- 16 shades liquid for ST and TT materials
- Rich shade to choose and simple operation



Shade guide



Application	Shades	Volume	Visible coloring liquid
Dentine area	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 C4 D2 D3 D4	20ML/50ML	Blue
Fossa area	O1 O2	20ML/50ML	Brown
Incisal area	G1 G2	20ML/50ML	Purple
Simulation gum area	P1 P2 P3	20ML/50ML	Pink
Magic liquid	T0	20ML/50ML	

Stains & Glazing

Features:

- Easy to handle and obtain natural looking restorations
- Low firing temperatures to protect the zirconia
- Well match with Upcera zirconia and lithium disilicate blocks



Available for two stains kits:

UPCERA Base stains kit	Base A, Base B, and Base C, and also yellow, olive yellow, pink, brown, reddish brown, grey, blue, purple , black, white, olive green together with glaze, universal glaze liquid.
UPCERA 16 shades stains kit	A3.5, A4, B2, B4, C1, C3, C4, D2, D3, D4 together with glaze and universal glaze liquid.

After glazing by upcera stain kit



How to use the Upcera 16 shades Stain Kit:

The UPCERA 16 shades stains kit is formulated to work with Upcera ST pre-shaded zirconia discs. This table shows you how to combine the stains with Upcera pre-shaded ST zirconia to achieve the correct end result:

Classical 16 shades A-D combination table

The shade you want	Use this ST color zirconia	Stain needed	incisal and fossae stain
A1	A1	None needed	Purple/Blue as necessary Brown or red-brown for the fissures
A2	A2	None needed	
A3	A3	None needed	
A3.5	A3	Use A3.5	
A4	A3	Use A4	
B1	B1	None needed	
B2	B1	Use B2	
B3	B3	None needed	
B4	B3	Use B4	
C1	A1	Use C1	
C2	C2	None needed	
C3	C2	Use C3	
C4	C2	Use C4	
D2	A1	Use D2	
D3	A2	Use D3	
D4	C2	Use D4	

UPCERA zirconia shade guide



Specification

Applied for	Specification(mm)	Package	HT white	ST white	ST color	ST Multi-layer	TT white	TT color	TT Multi-layer
Open CAD/CAM System 	D98x10 (stepless)	1pc/box	✓	✓	✓		✓	✓	
	D98x12 (step & stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓
	D98x14 (step & stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓
	D98x16 (step & stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓
	D98x18 (step & stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓
	D98x20 (step & stepless)	1pc/box	✓	✓	✓	✓	✓	✓	✓
	D98x22 (step & stepless)	1pc/box	✓	✓	✓		✓	✓	
	D98x25 (step & stepless)	1pc/box	✓	✓	✓		✓	✓	
Cerac in lab (Sirona) System 	20x14x15	12pcs/box	✓	✓	✓		✓		
	20x19x15	10pcs/box	✓	✓	✓		✓		
	40x14x15	8pcs/box	✓	✓	✓		✓		
	40x19x15	6pcs/box	✓	✓	✓		✓		
	55x19x15	5pcs/box	✓	✓	✓		✓		
	65x25x22	4pcs/box	✓	✓	✓		✓		
	65x40x22	2pcs/box	✓	✓	✓		✓		
	85x40x22	2pcs/box	✓	✓	✓		✓		
Zirkonzahn CAD/CAM System 	D95x10	1pc/box	✓	✓	✓		✓		
	D95x12	1pc/box	✓	✓	✓		✓		
	D95x14	1pc/box	✓	✓	✓		✓		
	D95x16	1pc/box	✓	✓	✓		✓		
	D95x18	1pc/box	✓	✓	✓		✓		
	D95x20	1pc/box	✓	✓	✓		✓		
	D95x22	1pc/box	✓	✓	✓		✓		
	D95x25	1pc/box	✓	✓	✓		✓		
Amann Girrbach CAD/CAM System 	89x71x10	1pcs/box	✓	✓	✓		✓		
	89x71x12	1pcs/box	✓	✓	✓		✓		
	89x71x14	1pcs/box	✓	✓	✓		✓		
	89x71x16	1pcs/box	✓	✓	✓		✓		
	89x71x18	1pcs/box	✓	✓	✓		✓		
	89x71x20	1pcs/box	✓	✓	✓		✓		
	89x71x22	1pcs/box	✓	✓	✓		✓		
	89x71x25	1pcs/box	✓	✓	✓		✓		

SHOW ROOM



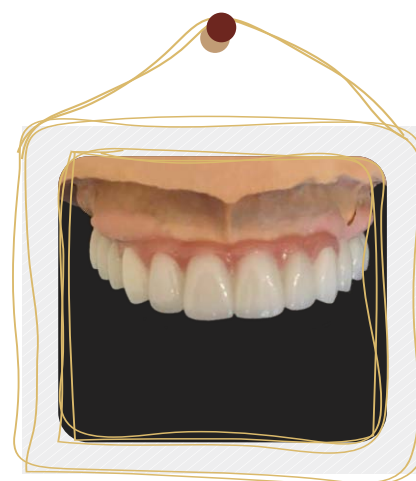
UPCERA ST bridge

By US Client



UPCERA ST Crown

By Turkish Client



UPCERA ST Bridge

By Turkish Client



UPCERA ST Multilayer Crown

By Czech Client



UPCERA TT Crown

By Italian Client



UPCERA TT Multilayer Crown

By UK Client

Remark