



Twinovation

PRODUCT CATALOG



COMPANY INTRODUCTION

With over 20 years dental industrial experience, we designed to meet the specific needs of modern dental clinic and laboratories. As the dental industry evolves, the demands for precision, efficiency, and high-quality outcomes continue to grow, we are dedicated to supporting dental clinic and laboratories with the state-of-the-art materials and equipment on the market, ensuring that every dentist and technician has access to the resources needed to deliver superior dental solutions.



Twinovation

Tezircon OVERVIEW

Tezircon is a premium material renowned for its strength, durability, and natural aesthetics. Ideal for wide range restorations, we offers exceptional resistance to fractures and wear, making it perfect for long-term dental solutions. Its tooth-like translucency and customizable shading ensure a seamless, natural appearance, providing patients with both functionality and beauty. Available in both monolithic and layered forms, Tezircon is a versatile and reliable choice for high-quality restorative work.



 TÜVRheinland®
ISO 13485 CERTIFIED  0197

Luma ML

Gradient Layer Dental Zirconia

Tezircon 3D-PRO A1 Ø98 / h14mm



Twinnovation®
Tezircon®

Luma ML

CE0197

Model: **3D-PRO**



Twinnovation

Featuring 8 multilayered transitional gradients, offers ultimate translucent for superior esthetics. Replicates the natural gradient of enamel to dentin with remarkable accuracy. Engineered for rapid sintering, it ensures both speed and quality, significantly reducing production time without compromising strength or beauty.

Gradient Transparency (%)
43%-53%

Gradient Flexural Strength (Mpa)
1050-700

Mole (%)
4Y-5Y

Chemical Composition
 $ZrO_2 + HfO_2 + Y_2O_3 \geq 99\%$; $Y_2O_3 < 10\%$

Dimension

98 mm 10 12 14 16 18 20 22 25 mm

Indications for use



Veneer



Inlay/Onlay



Anterior crown



Posterior crown



Posterior full crown bridge

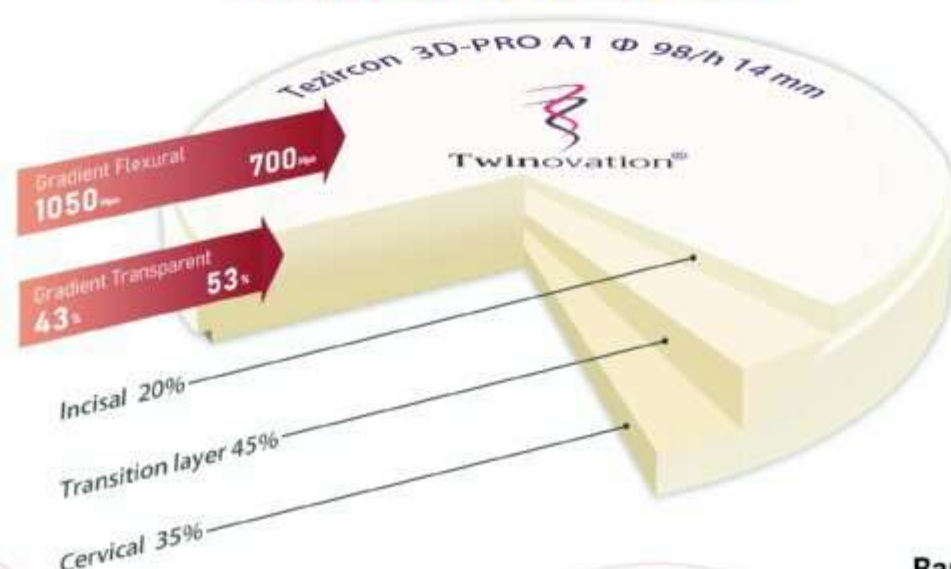


Anterior full crown bridge

Shade

A1 A2 A3 A3.5 A4 B1 B2 B3 B4
C1 C2 C3 C4 D2 D3 D4

8 Layers of Gradient Colour



Twineer

Bleaching Shade Dental Zirconia



Model: **UT**

 Twinnovation

Offer naturally radiant bleaching shade for your aesthetic restorations. Excellent translucent, bleaching color on naturalness, provide the ultimate solution on veneer and anterior restorations.

Transparency (%)

50%

Flexural Strength(Mpa)

≥ 600

Mole (%)

5Y

Chemical Composition

ZrO₂+HfO₂+Y₂O₃ ≥ 99%; Y₂O₃ ≤ 10%

Recommended indications

aesthetic crown, veneers, and other types of aesthetic restorations

Shade



Dimension



Indications for use



Veneer



Anterior
crown



Twinovation

LucentisML

Gradient Layer Dental Zirconia



Model: **ST-PLUS**

 Twinnovation

Featuring 8 multilayered transitional gradients, offers excellent translucent for superior esthetics. Replicates the natural gradient of enamel to dentin with remarkable accuracy. Optimal aesthetic restorations to achieves naturaless.

Gradient Transparency (%)

42%-49%

Gradient Flexural Strength (Mpa)

1200-700

Mole (%)

3Y-5Y

Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3 \geq 99\%$; $\text{Y}_2\text{O}_3 < 10\%$

Dimension

98 mm 10 12 14 16 18 20 22 25 mm

Indications for use



Veneer



Inlay/Onlay



Anterior crown



Posterior crown



Posterior full crown bridge

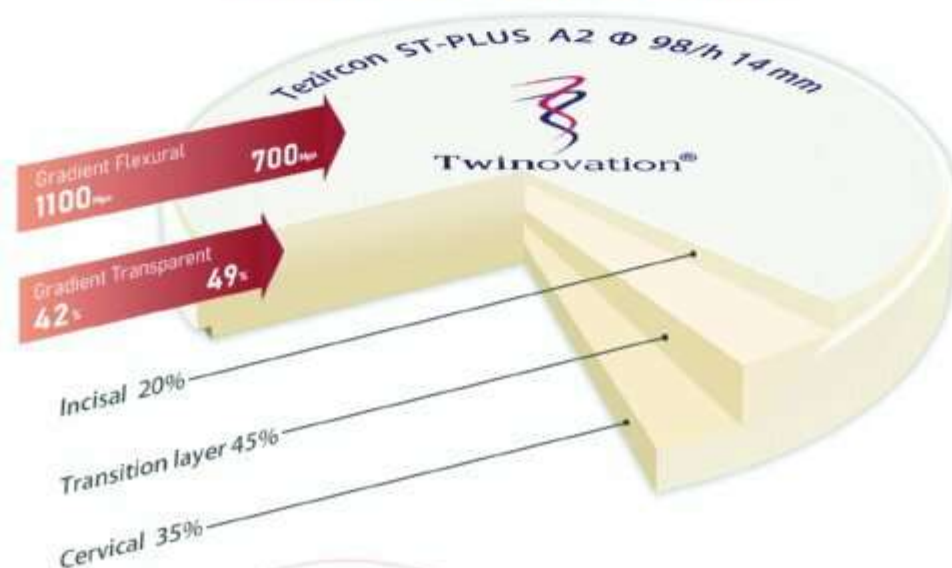


Anterior full crown bridge

Shade

A1 A2 A3 A3.5 A4 B1 B2 B3 B4
C1 C2 C3 C4 D2 D3 D4

8 Layers of Gradient Colour



Lucentis

Pre-shade Dental Zirconia

Tezircon ST A1 Φ 98 / h14mm



Twinovation®
Tezircon®

Lucentis

CE0197



Model: **ST**



Twinovation

Offers a perfect balance between strength and translucency, making it a reliable and versatile choice for a wide range of restorations.

Designed for both anterior and posterior applications, it provides optimal durability without compromising on esthetics.

Transparency (%)

46%

Flexural Strength(Mpa)

1050

Mole (%)

4Y

Chemical Composition

ZrO₂+HfO₂+Y₂O₃ ≥ 99%; Y₂O₃ < 6%

Dimension

98 mm 10 12 14 16 18 20 22 25 mm

Indications for use



Veneer



Inlay/Onlay



Anterior
crown



Posterior
crown



Full arch long
bridge

Shade

A1

A2

A3

A3.5

A4

B1

B2

B3

B4

C1

C2

C3

C4

D2

D3

D4



Twinovation

DuraCoreMC

Multicolor Dental Zirconia

Tezircon DUT MA1 Φ 98 / h14mm



Twinnovation[®]
Tezircon[®]

DuraCoreMC

CE0197



Model: **DUT(MC)**



Twinnovation

Provide smooth shade transitions simulate from cervical to incisal. Super highly translucent & strength, and highly aesthetic with reliable patient restorations just like natural tooth.

Transparency (%)

42%

Flexural Strength(Mpa)

1200

Mole (%)

3Y

Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3 \geq 99\%$; $\text{Y}_2\text{O}_3 < 6\%$

Dimension

98 mm 10 12 14 16 18 20 22 25 mm

Indications for use



Veneer



Inlay/Onlay



Anterior
crown

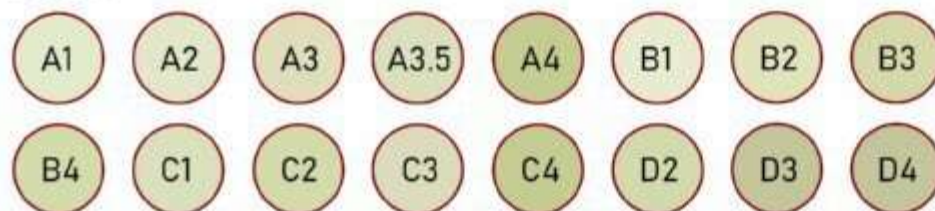


Posterior
crown



Full arch long
bridge

Shade



Twinovation

DuraCore

Pre-shade Dental Zirconia



Model: **DUT**



Twinovation

Offer new zirconia standard for unparalleled color accuracy, excellent strength and highly aesthetic, and different performance levels out of one blank with reliable patient restorations.

Transparency (%)

42%

Flexural Strength(Mpa)

1200

Mole (%)

3Y

Chemical Composition

$\text{ZrO}_2 + \text{HfO}_2 + \text{Y}_2\text{O}_3 \geq 99\%$; $\text{Y}_2\text{O}_3 < 6\%$

Colouring Liquids

VITA classical shade and Special effect colour

Dimension

98 mm 10 12 14 16 18 20 22 25 mm

Indications for use



Veneer



Inlay/Onlay



Anterior
crown



Posterior
crown



Full arch long
bridge

Shade



A1



A2



A3



A3.5



A4



B1



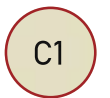
B2



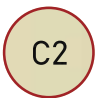
B3



B4



C1



C2



C3



C4



D2



D3



D4



W



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SHADING LIQUIDS



Tezircon zirconia shading liquids are engineered to provide optimal aesthetics, simplicity, and consistency. This system is specifically formulated for precise infiltration with Tezircon Zirconia.

Our distinctive shading systems are compatible with both high translucent and super translucent materials.





Shade liquid

16 shade vita classical shades

Pontic liquid

T



Incisal effect

W,G1,G2



Effect liquid

O1,O2



Gingival liquid

MD2



Opaque liquid

MD3



Indicator

yellow, blue, red

4-axis Block Milling Machine

EASY MILL II

Product Characteristics

- 4-Axis milling machine for CAD/CAM blocks
- Milling time only takes 15-30 mins depends on the restoration
- Suitable for in-lay, on-lay, veneer, inner crown, full crown
- Innovative pneumatic design for replacing CAD/CAM blocks
- Open system which is compactable with most I/O scanner or table top scanner
- Build-in water tank and less compressed air consumption
- Integrated to exocad software, so user can scan, design (CAD), and CAM in one interface

TECHNICAL DATA	
Dimension	455x390x555(mm)
Weight	70KG
Spindle power	<=0.9KW
Axis	4
Milling range	XYZ : 55x50x45mm
Processing mode	Wet milling
Speed	Max 60000 RPM
Tool capacity	3 , automatic change
Materials	Feldspar Lithium based ceramic, Hybrid materials, PMMA
Indications	Inlays, onlays, veneer, coping and crown



Twinovation

1 hour chairside CAD/CAM workflow



powered by
exocad



Product Characteristics

- Scan, CAD, CAM integrated in one software interface
- One of most popular dental CAD/CAM software in the world
- Complete software solution for digital dentistry
- Dental CAD/CAM software provider with the widest choice of integrated solutions using third-party scanners, mills, printers, and materials

5-axis Dry Milling Machine

ZirMill

Product Characteristics

- XYZ: 135/115/80mm
- Rotation angle of B axis up to +30°/- 90°, A:360 °
- Intelligent control and monitor
- Mill material: Zirconia, Wax, PMMA & PEEK
- Max speed: 60,000rpm
- Automatic change tool (bur), 12 burs capacity
- C-type blank holder

TECHNICAL DATA	
Dimension	520 x 560 x 700(mm)
Spindle power	0.75kW
Axis	5
Milling range	XYZ: 135/115/80mm A: 360° B: +30°/-90°
Processing mode	Dry milling
Speed	Up to 60,000 rpm
Tool capacity	12, Automatic change
Spindle cooling	Air cooling
Materials	Zirconia, Wax, PMMA, PEEK, Soft metal
Indications	Crowns, bridges, inlays, onlays, veneers, dentures, screw retained crowns, screw retained bridges



Twinovation

Sintering Furnace

Nigel

Easyfire is a reliable, high-performance dental sintering furnace designed for zirconia restorations. Engineered for precision and ease of use, it supports both standard and fast sintering cycles, making it ideal for dental labs and clinics aiming for flexibility and efficiency.

With user-friendly controls and consistent temperature accuracy, Easyfire ensures optimal translucency and strength in every restoration.

Product Characteristics

- Suitable for all zirconia materials
- Supports standard and rapid sintering programs
- Reliable by material use and precise temperature control
- High temperature stability and uniform heat distribution
- Intuitive touch-screen interface
- Compact design with low energy consumption
- Ideal for single units, bridges, or full-arch restorations



Zirconia

5-Axis Dry Milling Unit

ZirMill 52D/52DCs

A high-performance 5-axis dry milling unit equipped with a powerful 2.2 kW spindle, ideal for full-arch restorations and complex zirconia cases. Designed for efficiency and precision, this model meets the needs of busy dental labs requiring reliable dry milling for zirconia, PMMA, and wax.

With 52DCs, this top-tier model combines a 2.2 kW spindle with an integrated 3-disc automatic changer, enabling uninterrupted multi-job operation and increased productivity. Perfect for high-throughput dental labs handling multiple materials or shades.

Product Characteristics

- 5-axis simultaneous dry milling
- 2.2 kW high-speed spindle for advanced zirconia cases
- Excellent surface quality and accuracy
- Compatible with a wide range of dry-millable materials
- Ideal for crowns, bridges, implant cases, and full-arch prosthetics
- Automatic 3-disc changer for continuous milling (52DCs)



Resin



Wax



PMMA/PEEK



Zirconia



Twinovation

5-Axis Wet Milling Unit

ZirMill 52W

A high-performance 5-axis wet milling unit engineered for high-precision dental restorations. With a powerful 2.2KW spindle, advanced 5-axis simultaneous motion, and robust wet milling capabilities, this system delivers exceptional accuracy, surface finish, and efficiency for a wide range of dental materials.

Product Characteristics:

- 5-Axis Simultaneous Wet Milling: Enables complex geometries with high precision and superior surface quality.
- 2.2KW High-Speed Spindle: Optimized for demanding both dry & wet millable materials
- Wet Milling System: Continuous coolant delivery reduces heat, improves tool life, and ensures consistent milling quality.
- Wide Material Compatibility: Ideal for esthetic crowns, bridges, inlays/onlays, veneers, full-arch and implant prosthetics.
- User-Friendly Operation: Intuitive CAM interface and support for major CAD/CAM



Pre-milled blank



Titanium / CoCr disc



Ceramic / Hybrid / PMMA block



Resin



Wax



PMMA/PEEK



Zirconia



CERAMIC BRUSHES

Crafted with premium Kolinsky sable bristles, our Picasso brush delivers exceptional control, flexibility, and water retention, making it the perfect tool for stain/glaze and porcelain build-ups.

Ideal for dental technicians, the natural bristles maintain a sharp tip and smooth handling, allowing precise placement of porcelain with minimal effort. Designed for both strength and sensitivity, this brush is a must-have for high-end work.

Key Features

- Made from genuine Kolinsky sable hair
- Excellent elasticity and tip precision
- Superior moisture retention for smooth ceramic manipulation
- Perfect balance on weight and shape
- Ideal for layering, contouring, and fine detail work
- Durable construction with ergonomic handle
- With 5 brush sizes (0, 1, 4, 6, 8)

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Brush-On Anti-Reflection Scanning Powder

TWIN SCAN POWDER

Our brush-on scanning powder is specially developed for tabletop scanners, offering a cleaner, more precise alternative to spray powders. Applied directly with a brush, it forms a thin, even matte layer on reflective surfaces — without overspray or waste.

Unlike aerosol sprays, our brush-on formula ensures controlled application, minimal mess, and consistent scanning results, making it the preferred choice for dental labs focused on accuracy and efficiency.

Key Features

- Brush-on application for precise and waste-free coating
- Effectively reduces reflection on metallic and glossy surfaces
- No airborne particles – cleaner and safer working environment
- Ideal for tabletop and lab 3D scanners
- Enhances scan quality for crowns, abutments, and implants

Why It's Better than Spray

- No overspray or equipment contamination
- Up to 10x more accurate at 1µm coating
- Up to 80x application on object
- More economical – only use what you need
- Better control over coating thickness
- Safer for users and equipment

SLM POWDER

Product Characteristics

- Compactable with most popular metal porcelain
- High biocompatibility
- Accurate edge stability
- Suitable for bridge up to 16 units
- FDA: 93/42/EEC Appendix II; ISO 13485

TECHNICAL DATA			
	CoCr		Titanium
Chemical composition	Co 61.5% / Cr 28.1% / Mo 5.3% / W 5.0%	Co 64% / Cr 28% / Mo 6%	Ti > 89% / Al: 6% / V: 4%, Fe, O, C, N, H
Yield strength 0.2 %	>500MPa	550MPa	945MPa
Tensile strength	525MPa	750MPa	1055MPa
Elongation	14.7%	6%	10%
Elastic modulus	240GPa	220GPa	115GPa
Hardness	365 HV 10	365 HV 10	320 HV 10
Density	8.55 g/cm ³	8.3 g/cm ³	4.5 g/cm ³
CTE (20-500°C)	14.5 x 10 ⁻⁶ K ⁻¹	14.1 x 10 ⁻⁶ K ⁻¹	10.1 x 10 ⁻⁶ K ⁻¹



PRECIOUS METAL ALLOY

Product Overview

- Porcelain alloy of precious metal Twinovation 90 / 86 / 22
- Porcelain alloy of semi- precious metal Twinovation 03 / 40 / Pt15
- Porcelain alloy of palladium precious metal Twinovation 04 / 73 / 61 / Pal / 43+
- Casting alloy of precious metal Twinovation A10

Model	Au	Pt	Pd	Ag	In	Sn
Twinovation 90	89.5%	5.8%	1.6%	1.2%	—	—
Twinovation 86	86.2%	11.5%	—	—	—	—
Twinovation 83	54%	—	26.4%	15.5%	1.5%	2.5%
Twinovation 04	—	—	53.3%	37.7%	—	8.5%
Twinovation 22	73.8%	8.5%	5.4%	8.98%	1.9%	—
Twinovation 15	15%	—	52.2%	21.5%	6%	4%
Twinovation 40	40%	—	39.4%	10%	8.8%	—
Twinovation 43	2%	—	43%	46%	8%	—
Twinovation 61	3%	—	60.7%	23.35%	10%	—
Twinovation Pal	2.1%	—	79%	—	—	8.4%
Twinovation A10	40%	—	4%	47%	—	Cu 7.5%

Model	Pt	Pd	Ru	Ag	Co	Au	Cr	Mo	Ga	W
Twinovation Pt15	15%	—	10%	—	42%	—	21.3%	4%	5%	—
Twinovation 43+	—	43.4%	—	4.8%	31%	2%	12.5%	6.5%	—	—
Twinovation Cobalt	—	—	—	—	61.5%	—	28.1%	5.3%	—	5%
Twinovation 43-	—	25%	—	3.6%	37%	2.9%	19%	11%	—	—





Twinovation



WhatsApp



Facebook



Instagram

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