

CEREC MTL™ Zirconia

Multi Transitional Layer Zirconia



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Product Information



SKU	CEREC MTL Zirconia mono (4 Pc)	SKU	CEREC MTL Zirconia medi (2 Pc)
5365450001	CEREC MTL Zirconia A1 mono	5365450021	CEREC MTL Zirconia A1 medi
5365450002	CEREC MTL Zirconia A2 mono	5365450022	CEREC MTL Zirconia A2 medi
5365450003	CEREC MTL Zirconia A3 mono	5365450023	CEREC MTL Zirconia A3 medi
5365450004	CEREC MTL Zirconia A3.5 mono	5365450024	CEREC MTL Zirconia A3.5 medi
5365450007	CEREC MTL Zirconia B2 mono	5365450027	CEREC MTL Zirconia B2 medi
5365450011	CEREC MTL Zirconia C2 mono	5365450031	CEREC MTL Zirconia C2 medi
5365450014	CEREC MTL Zirconia D2 mono	5365450034	CEREC MTL Zirconia D2 medi

Glazing Accessories

SKU	Product Description
6580067	CEREC SpeedPaste
6611870	Glazing Support Single Unit +A
6583889	Glazing Support Multi Unit
5368273100	Dentsply Sirona Universal Spray Glaze Fluo
5368273101	Dentsply Sirona Universal Spray Glaze
D605540	DS Universal Glaze
D601315	DS Universal Glaze Liquid

CEREC Primemill

SKU	Burs for CEREC Primemill
67 13 940	Bur 2.5 ZrO ₂ CS 
67 13 932	Bur 1.0 CS 
67 13 924	Bur 0.5 CS 

Tool Use Case	Color	Left Side	Right Side	Color	Possible Processing Modes
Mill ZrO ₂ Extra Fine	●	Bur 2.5 ZrO ₂ CS	Bur 1.0 CS	●	Fast, Fine, Extra Fine Milling Zirconia
	○	Any tool	Bur 0.5 CS	●	
Mill ZrO ₂ Super-Fast	●	Bur 2.5 ZrO ₂ CS	Bur 2.5 ZrO ₂ CS	●	Super-Fast Milling Zirconia
	●	Bur 1.0 CS	Bur 1.0 CS	●	

CEREC MC XL, CEREC MC X

SKU	Burs for CEREC MC XL, CEREC MC X
62 99 395	Shaper 25 
62 99 387	Finisher 10 

Motor Set	Left	Right	Combination
Set 1	Shaper 25	Finisher 10	Dry Milling


CEREC MTL Zirconia

Designed and made by
VITA

Manufactured by
VITA Zahnfabrik
H. Rauter GmbH & Co. KG
Spitalgasse 3, 79713 Bad Säckingen



Distributed by
DeguDent GmbH
Rodenbacher Chaussee 4
63457 Hanau

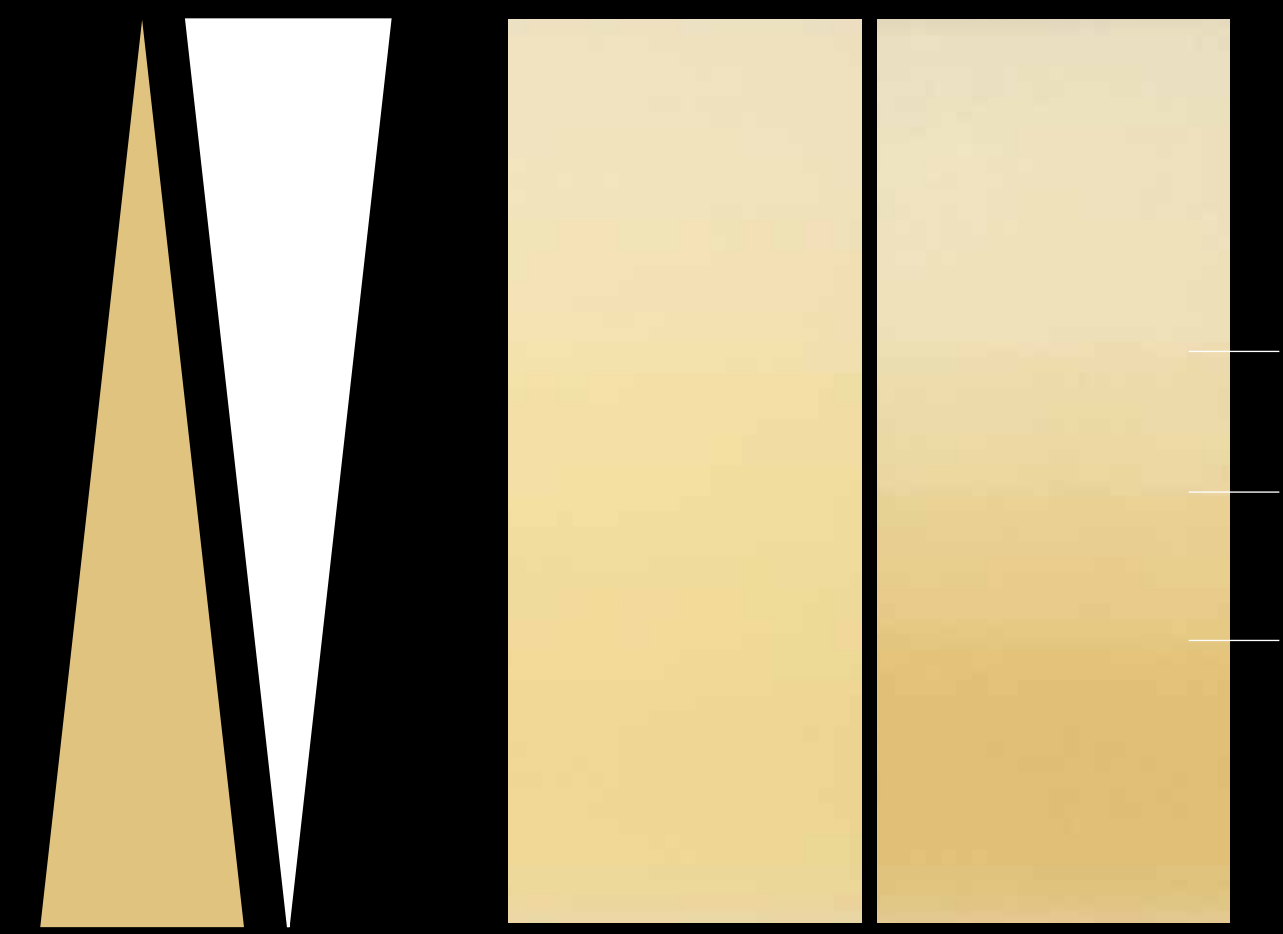
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THE DENTAL
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Translucency



Color pigments

CEREC MTL Zirconia with a seamless color gradient

Competitor material with 4 individual layers

Natural Gradient for great Esthetics

- Due to its high translucency and high color matching characteristics, CEREC MTL Zirconia meets all esthetic needs.
- The excellent match with the most commonly used VITA classical shades enable a most convenient color selection.
- Natural Gradient: due to the multi transitional layers of CEREC MTL Zirconia no layers are visible.



CEREC MTL Zirconia crown polished and then glazed with DS Universal Glaze High Fluo in the CEREC SpeedFire

Zirconia – Strong as ever. Beautiful like never before.

To achieve outstanding results in dental restorations, strength and beauty must go hand in hand. CEREC MTL Zirconia is the solution that provides you with strong, precise restorations that are highly esthetic and natural looking:

- **High Esthetics** – natural multitransitional Layer and high shade match.
- **High Strength** – greater than 850 MPa¹ enable less reduction of the natural tooth.
- **Fast Zirconia Workflow** – most efficient when using the CEREC Primemill & CEREC SpeedFire.
- **Easy Workflow** – time saving and efficient.

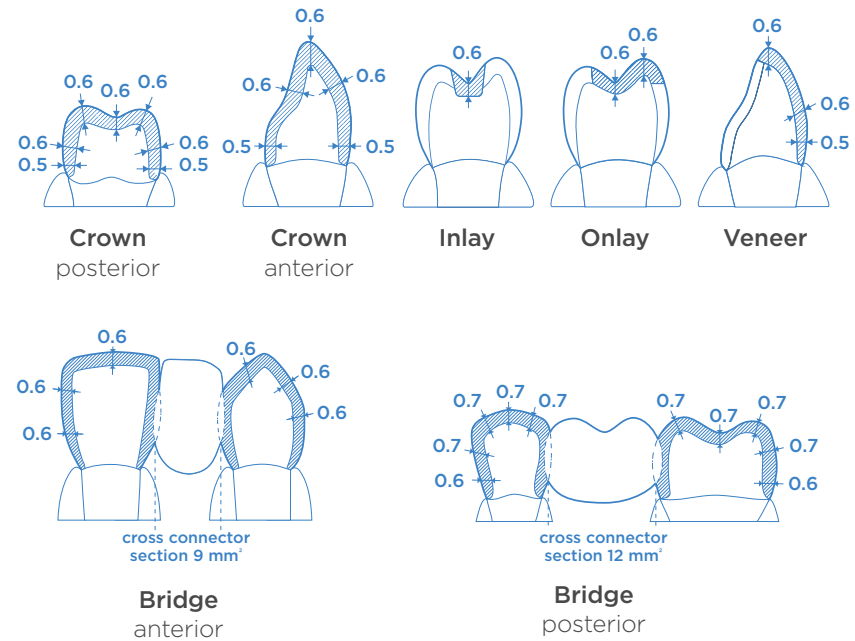
¹ 3-point bending strength

Strength for more Confidence

The high strength of **> 850MPa** benefits both, dentist and patient. Restorative treatment is even possible in areas with limited space.

CEREC MTL Zirconia is indicated for:

- fully anatomical anterior and posterior crowns
- fully anatomical 3-unit anterior and posterior bridges
- Onlays
- Inlays
- Veneers



Up to **40% lower** wall thickness and thus less natural tooth removal compared to competition for crowns allows for a more conservative preparation design and also provides greater flexibility on the restoration.²

82% of dentists say strength is a primary reason for using zirconia.²

NOTE: For Super Fast Milling it is recommended to increase the minimum wall thickness to 0.7 mm.

Fast Chairside Zirconia Workflow

CEREC Primemill and CEREC SpeedFire for a fast CEREC MTL Zirconia workflow.



With CEREC Primemill excellent CEREC MTL Zirconia crowns can be milled in around 5 minutes in the Super Fast milling mode.⁴



With CEREC SpeedFire a crown can be sintered in 18 min. The optional glazing firing will take 9 min.

8 of 10 dentists fail to meet a 60-minute single-visit goal for their single-unit crown restorations, with long total processing times contributing to longer appointments.³

² Minimum Wall thickness for a posterior Katana Zirconia Block (Kuraray Nortiacke) crown is 1.0 mm. Minimum wall thickness for CEREC MTL Zirconia crown is 0.6 mm.

³ Data on file.

⁴ For Super Fast Milling it is recommended to increase the minimum wall thickness to 0.7 mm.

The CEREC MTL Zirconia Workflow



Step 01: Choose the block

In the CEREC SW 5.1.3 Material Pack single unit blocks (mono) and bridge blocks (medi) are included.

Choose the block that's the best match for the case at hand.



Step 02: Install milling burs

If using CEREC Primemill in the Super Fast Mode, install the Bur 2.5 ZrO₂ CS and Bur 1.0 CS on each side of the milling machine.

If using CEREC MC XL Premium Package, CEREC MC XL, CEREC MC X, install the burs Shaper 25 and Finisher 10.



Step 03: Dust off milled crown

Use the large dusting brush to thoroughly remove any material residue that may have settled on the restoration during the milling process.

The surfaces of the crown must be clean and dust-free before sintering.



Step 04: Sinter

In preparation for polishing and glazing, the crown must first be sintered with the CEREC® SpeedFire furnace.

Manual programming is not required, as the CEREC SpeedFire furnace is pre-programmed for sintering CEREC MTL Zirconia.

Pro tip: For proper sintering, the crown must be placed upside down inside the furnace chamber.



Step 05: Polish

CEREC MTL Zirconia can be finished by polishing or through a combination of polishing and glazing.

Ensure the restoration is properly polished, including the occlusal surface, especially the areas that are in direct contact with the antagonist. After functional adjusting, re-polish the surfaces to achieve a high gloss.

This ensures the potential of unwanted abrasion while delivering a final high-quality restoration.



Step 06: Apply firing paste (optional)

Fill the inside of the crown with just enough CEREC® SpeedPaste to support the firing pin – do not overfill.

Push the crown gently onto a firing pin.



Step 07a: Paint-on Glaze (optional)

The restorations can be glazed with the DS Universal Stain and Glaze System.

Ensure the restoration is free of contamination and completely dried with oil-free air prior to Glaze application.



Step 07b: Spray Glaze (optional)

Alternatively, CEREC MTL Zirconia can be glazed with DS Universal Spray Glaze (with or without Fluo).

Also ensure that restoration is free of contamination and completely dried with oil-free air prior to Glaze application.

Pro tip: Maintain a distance of 6 - 10 cm (2.5 - 4.0 in) between the nozzle outlet and the restoration surface.



Step 08: Cementation

Prior to cementation of the crown, sandblast the internal surfaces in the one-way blasting process with maximum 50µm corundum (Aluminiumoxide) at a pressure less than 2.5 bar.

Do not touch the sandblasted surface, if possible.

For final cementation, apply Calibra® Universal or Calibra® Bio Cement according to the manufacturer's directions for use.