CADstar Zirconium Dioxide

Crowns, bridges, abutments, primary parts, or denture/bar constructions, for example, can be manufactured by CADstar for use as dental prosthetics. Bridge frameworks for the anterior teeth may be made with up to 2 pontics. The connector cross-section should not be less than 9 mm^2. In the posterior region, bridges must not contain more than 2 pontics. The connector cross-section must be a minimum of 9 mm^2.

The most important features are:

- Metal-free restorations allow for better aesthetic results than cast metal solutions.
- Biocompatibility of ceramics is superior to many precious metal solutions.
- The composition of ZrO2 stops possible micro cracks due to structural change.

AUSTRIA
Sparkassenstraße 4
5500 Bischofshofen

GERMANY
Unsöldstraße 2
80538 Munich

ITALY (int. sales)
Corso di porta vigentina 35
20122 Milan

Tel. +43 (0) 6462 / 32 880
Fax +43 (0) 6462 / 60 11 11

office@cadstar.dental
www.cadstar.dental

CADstar

CADstar Zirconium Dioxide HT

Crowns, bridges, abutments, primary parts, or denture/bar constructions, for example, can be manufactured by CADstar for use as dental prosthetics. Bridge frameworks for the anterior teeth may be made with up to 2 pontics. The connector cross-section should not be less than 9 mm^2. In the posterior region, bridges must not contain more than 2 pontics. The connector cross-section must be a minimum of 9 mm^2.

The most important features are:

- Metal-free restorations allow for better aesthetic results than cast metal solutions.
- Biocompatibility of ceramics is superior to many precious metal solutions.
- The composition of ZrO2 stops possible micro cracks due to structural change.

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www.cadstar.dental

CADstar

CADstar Zirconium Dioxide HT Ultra

CADstar Zirconium Dioxide HT Ultra can be used to produce crowns, bridges, inlays, onlays & veneers. Bridge frameworks for the anterior and posterior teeth may be made with up to 3 units. The connector cross-section should not be less than 9 mm^2.

CADstar Zirconium Dioxide HT Ultra has an exceptional light transmission of 49% at a sample thickness of 1mm and a high translucency close to lithium disilicate at a bending strength of 600 +/- 100 MPa.

The most important features are:

- Metal-free restorations allow for better aesthetic results than cast metal solutions.
- Biocompatibility of ceramics is superior to many precious metal solutions.
- The composition of ZrO2 stops possible micro cracks due to structural change.

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CADstar

CADstar Zirconia Multi-Layer

CADstar Zirconia Multi-Layer is milled out of KATANA™ Zirconia ultra-high-translucent-multi-layered (UTML) discs. The innovative multi-layered technology is specialized for fabricating Full Contour Zirconia Crown. Available for a full color variation in high translucency, it helps dental professionals to a higher esthetic level.

The most important features are:

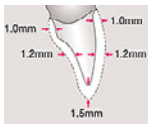
- Metal-free restorations allow for better aesthetic results than cast metal solutions.
- Biocompatibility of ceramics is superior to many precious metal solutions.
- The composition of ZrO2 stops possible micro cracks due to structural change.

STML and UTML in comparison

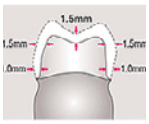
KATANA™ Zirconia		UTML	STML
Front	Krone	≈≈≈ *2	≈≈≈ *2
	Veneer	≈≈≈	≈≈
Seite	Krone	≈≈	≈≈≈
	Inlay/Onlay	≈≈	≈
Brücke	3-gliedrig, Front	≈	≈≈
	3-gliedrig, Seite	–	≈
Eigenschaften	Transluzenz	hoch	
	Biegefestigkeit		hoch

Restoration wall thickness

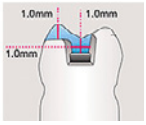
Veneer



Anterior crown



Posterior crown



Inlay/Onlay

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CADstar

CADstar IPS e.max CAD

IPS e.max CAD by CADstar combines uniqueness and efficiency. The innovative lithium disilicate ceramic (LS2) meets the highest aesthetic standards and combines modern technology with exceptional user-friendliness.

It is used for the efficient production of aesthetic, high-strength single tooth restorations using CAD/CAM technology. The ceramic is ground into a „soft“ ceramic stage, in which the material displays its characteristic, conspicuous „bluish“ color. Thus, you can even perform manual adaptations or a cutback to control the fit.

The most important features are:

- New aesthetic possibilities with 3 different translucency levels (MO, HT, LT)
- Efficient production of single tooth restorations
- Revolutionary implementation of occlusal morphology thanks to simultaneous 5-axis technology
- IPS e.max CAD restorations by CADstar are made with tolerance of less than 10 µm
- Official validation of the CADstar production method by Ivoclar Vivadent AG

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CADstar

CADstar Vita ENAMIC®

VITA ENAMIC® is the world‘s first dental hybrid with a dual network structure that combines the best of both a ceramic and a composite. The CAD/CAM blocks are not only suitable for the production of classic inlays, onlays, and veneers and crowns in the anterior and posterior area, but they are also suited for minimally invasive restorations such as non-prep veneers or restorations where space is limited.

With VITA ENAMIC®, the dominant ceramic network structure and the reinforcing polymer network structure are merged fully with one another. Thanks to this dual ceramic-polymer network, the new composite incorporates the benefits of ceramic and composite materials in one outstanding product. Studies in material science show that along with offering immense strength, VITA ENAMIC® also ensures extraordinary levels of elasticity, even going so far as to include integrated crack prevention.

This new class of materials offers significantly less brittleness than a pure dental ceramic, and it offers abrasion behavior superior to that of conventional composite materials thus corresponding better to the properties of natural teeth. The high load-bearing capacity makes VITA ENAMIC® very resistant to the sheer and compressive forces of the stomatognathic system. Therefore, the material is very versatile.

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CADstar

CADstar Titanium

Titanium is well established in dentistry and has repeatedly proven its worth. Patients can be optimally treated with crowns, bridges, and telescopes made of titanium, because its high biocompatibility is ensured.

Crowns and bridges for the anterior and posterior areas can be made from titanium. Bridge frameworks for the anterior area may be manufactured with up to 3 pontics. The connector cross-section must not be less than 6 mm².

In the posterior region, bridges must not contain more than 3 pontics. The connector cross-section must be at least 9 mm². Implant-supported bars and bridges as well as superstructures can also be made from it.

An optimal connecting structure between titanium and the appropriate veneering ceramic is ensured, because the material properties of titanium are retained by the CAM processing of industrially manufactured titanium blanks.

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CADstar

CADstar Cobalt-Chrome

The scope of application includes crowns and bridges in the anterior and posterior region, and it can also be used in cone and telescopic technology (primary and secondary parts). The connector cross-section must not be less than 6 mm², and we recommend a connector cross-section of at least 9 mm². In addition, implant-supported bars and bridges as well as superstructures can be made from it.

The most important features are:

- Nickel and beryllium-free, therefore biocompatible
- Easy processing due to reduced hardness
- Low coefficient of thermal expansion (CTE)
- Very good machinability

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CADstar

CADstar PMMA Standard

Dentalos Plus® discs (CADstar PMMA standard) are milling blanks for the production of crowns and bridges as long-term temporaries.

The most important features are:

- Extremely high breakage resistance
- High surface density – plaque-resistant
- No toxins and benzoyl peroxide-free
- Residual monomer content below 0.3%
- High translucency
- Suitable for telescopic work (abutment)

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CADstar PMMA Telio CAD®

TELIO CAD® discs involve blanks made of PMMA (polymethyl methacrylate), from which individual teeth as well as single or multi-unit, fully anatomical restorations for temporary prostheses can be ground by means of CAD/CAM technology. With the use of additional layering materials and stains, aesthetic improvements can be made.

The most important features are:

- High level of material uniformity due to the industrial production process
- No toxins and benzoyl peroxide-free
- Lasting color stability and natural fluorescence
- Easy reproducibility of the temporary prosthesis

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CADstar

CADstar Lava™ Ultimate

The great advantage of Lava™ Ultimate is the higher stability of materials and the ease of polishing the finished restoration by the dentist. With a flexural strength of 200 MPa, Lava™ Ultimate CAD/CAM restoration material offers a higher bending strength than all other CAD/CAM materials and boasts a fast, no-firing process. So far, CAD/CAM materials can achieve a pure chairside workflow of ca. 150 MPa. Thanks to the combination of extraordinary strength and high resilience, Lava™ Ultimate now includes monolithic crowns and even implants.

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CADstar Ambarino

CADstar Ambarino® High-Class is a mixture of ceramic inorganic filler with polymer blends. Thanks to particularly high physical data, a very low tendency to abrasion (very close to the natural enamel) and an excellent wearing comfort , Ambarino® High-Class provides a true alternative to full ceramics.

The scope of application spans inlays, onlays, veneers, partial crowns, crowns and bridges up to three units.

The most important features are:

- Exceptional stability and highest aesthetics
- Metal-free
- Ideal for bruxists
- Very high abrasion restistance (very close to the natural enamel)
- Homogenous structure into the nanometre range
- High biocompatibility

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CADstar peracam® (composite)

Peracam® involves milling blanks for CAD/CAM technology made of bioceramic, high-performance composite. This composite material is a high-quality alternative to full ceramic and is of particular benefit with indications for long-term temporaries.

Contraindications
With known allergies to ingredients or with allergic reactions, peracm® should be avoided.

Variants
The peracam® milling blanks for CAD/CAM technology are available in Vita colors A1, A2, A3, A4, and B2.

The most important features are:

- High abrasion resistance
- High plaque resistance
- High biocompatibility

Indications for long-term temporaries

- Crown and bridge restorations with up to 16 units (fully anatomical and reduced)
- Veneers and partial crowns
- Telescopic and tertiary framework technology
- Implant superstructures
- Table tops (ideal for bruxism)

Indications for permanent dentures

- Crown and bridge restorations for a maximum of 3 units (fully anatomical and reduced)
- Veneers and partial crowns
- Telescopic and tertiary framework technology
- Implant superstructures
- Table tops (ideal for bruxism)

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