

# IPS e.max<sup>®</sup> CAD BLOCK RANGE

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# IPS e.max® CAD

## FOR A COMPREHENSIVE RANGE OF INDICATIONS

IPS e.max® CAD is a versatile and proven lithium disilicate glass-ceramic for use with the CAD/CAM technique, providing high-strength restorations (530 MPa<sup>1</sup>).

Its indication spectrum includes inlays, onlays, thin veneers, occlusal veneers, crowns, three-unit bridges in the anterior and premolar region, implant superstructures as well as hybrid abutments and hybrid abutment crowns. In the fabrication of long-span bridges – also for the posterior region – IPS e.max CAD veneering structures are used in combination with zirconium oxide frameworks.

IPS e.max CAD blocks are supplied in 6 sizes (I12, C14, C16, B32, B40 and B40L). The range also includes special blocks with an integrated interface for hybrid abutment restorations.

<sup>1</sup> Typical mean value of biaxial flexural strength measured over 10 years, R&D Ivoclar Vivadent, Schaan



# IPS e.max® CAD

## FOR NATURAL-LOOKING, CAD/CAM-FABRICATED RESTORATIONS

IPS e.max CAD blocks are available in four levels of translucency (HT, MT, LT, MO). An Impulse version is also provided.

The blocks for full-contour restorations are offered in A–D and Bleach BL shades, those for the layering technique in group shades. The blocks are selected in line with the indication and the case at hand. IPS e.max CAD can be processed in the staining, cut-back and layering technique.

IPS e.max CAD Crystall/Shades and Stains are designed for the staining technique on restorations in the blue state. For tooth-coloured restorations, the IPS e.max Ceram Shades or IPS Ivocolor are available. IPS e.max Ceram veneering materials are used for the layering technique. Optionally, the restorations can also be polished (self-glaze).



# IPS e.max® CAD HT

## THE MINIMALLY INVASIVE BLOCK

The HT blocks are supplied in 16 A-D and 4 Bleach BL shades. These high-translucency blocks that resemble natural enamel are ideally suitable for the fabrication of small restorations (e.g. inlays). Restorations made of HT blocks are characterized by their true-to-nature chameleon effect and the exceptional adaptation to the remaining tooth structure. They can be efficiently individualized using the staining technique. Even longer-span bridges can be fabricated in combination with a zirconium oxide framework.



# IPS e.max® CAD MT

## THE BRIGHT BLOCK

The MT blocks are available in the shades A1, A2, A3, B1, BL2, BL3 and BL4. These medium-translucency blocks are used in cases where a brighter material than HT and a more translucent material than LT is needed. Restorations made of the MT material are ideal for the staining and cut-back techniques.



# IPS e.max® CAD LT

## THE VERSATILE BLOCK

The LT blocks are available in 16 A-D and 4 Bleach BL shades. Their low translucency – similar to that of natural dentin – renders these blocks suitable for creating large restorations (e. g. posterior crowns). The material exhibits true-to-nature brightness and chroma, which prevents the restoration from looking grey. The esthetic appearance of the restoration is maximized with the cut-back technique.

The abutment blocks with a prefabricated interface are used for the creation of hybrid abutments and hybrid abutment crowns<sup>1</sup>.



<sup>1</sup> The fabrication of hybrid abutment solutions depends on the software in use of the respective CAD/CAM partner.

# IPS e.max® CAD MO

## THE CLASSICAL BLOCK

The MO blocks are available in 5 group shades (MO 0, MO 1, MO 2, MO 3, MO 4). Given their opacity, these blocks are intended for the fabrication of substructures that are placed on vital or slightly discoloured prepared teeth. They form an excellent base for lifelike restorations that are completed with the layering technique.

The abutment blocks with a prefabricated interface are suitable for the creation of hybrid abutments<sup>1</sup>.



<sup>1</sup> The fabrication of hybrid abutment solutions depends on the software in use of the respective CAD/CAM partner.

# IPS e.max® CAD IMPULSE

## THE OPALESCENT BLOCK

Impulse blocks are available in two different levels of opalescence (Opal 1, Opal 2). The restorations produced with these blocks have exceptionally opalescent properties. Therefore, this material is ideal for fabricating thin veneers and veneers for light teeth which require an opalescent effect.



# IPS e.max® CAD

## IN COMBINATION WITH INNOVATIVE AND TRIED-AND-TESTED LUTING MATERIALS

Depending on the indication, different tried-and-tested luting materials from Ivoclar Vivadent can be chosen for cementing IPS e.max CAD restorations. Crowns and bridges made of IPS e.max CAD can be seated using adhesive, self-adhesive or conventional (e.g. SpeedCEM® Plus) luting systems. Inlays, thin veneers and occlusal veneers are adhesively cemented (e.g. Variolink® Esthetic).



The innovative single-component ceramic primer Monobond Etch & Prime® is used to shorten and simplify the conditioning procedure. The primer etches and silanates IPS e.max CAD surfaces in one easy working step.



## COOPERATION WITH INNOVATIVE PARTNERS

The combination of both optimally coordinated and tried-and-tested processes and high quality standards are key to fabricating high-precision restorations. The new innovative PrograMill milling machines from Ivoclar Digital also offer these processes and standards.

The success of IPS e.max CAD is also based on the long-term cooperation partners in the field CAD/CAM software and hardware. Dentsply Sirona, KaVo Dental and Planmeca are our partners for conventional in-house systems for labside and/or chairside use.

In addition, there are numerous of Authorized Milling Partners around the globe. These are certified milling centres that offer coordinated processes, providing IPS e.max CAD restorations with an excellent surface finish.

The block range varies in accordance with the CAD/CAM system used (depending on the software solutions available). Not all block types and sizes are available in all countries.

## INDICATIONS AND PROCESSING TECHNIQUES

As far as processing is concerned, all the blocks can be used to create nearly any type of restoration. Nevertheless, due to esthetic reasons, the following processing techniques and indications are recommended:

Translucency level	Processing technique					Indications								
	Polishing technique	Staining technique	Cut-back technique	Layering technique	CAD-on technique	Thin veneer 1)	Veneer	Inlay and onlay	Partial crown	Anterior and posterior crown	3-unit bridge	Multi-unit bridge	Hybrid abutment	Hybrid abutment crown
<b>HT</b> High Translucency	✓	✓	✓			✓	✓	✓	✓					
<b>MT</b> Medium Translucency	✓	✓	✓		✓					✓ CAD-on	✓ CAD-on	✓ CAD-on		
<b>LT</b> Low Translucency	✓	✓	✓			✓	✓		✓	✓	✓ <sup>2)</sup>		✓	✓
<b>MO</b> Medium Opacity				✓						✓ <sup>3)</sup>			✓	
<b>I</b> Impulse	✓	✓	✓			✓	✓							

<sup>1)</sup> the cut-back technique must not be used for thin veneers

<sup>2)</sup> only up to the second premolar as the distal abutment

<sup>3)</sup> up to the second premolar