

IPS e.max[®] 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, high-strength (360 MPa) lithium disilicate glass-ceramic for use with the CAD/CAM technique.

Its indication spectrum includes inlays/onlays, thin veneers, occlusal veneers, crowns, anterior/premolar bridges, 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.



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 to suit 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 und Stains are particularly suitable when using 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 and more translucent look is needed than that imparted by the LT blocks. Restorations made of the MT material are ideal for the staining and cut-back techniques.

The MT blocks replace the Value blocks (V1, V2, V3).



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 prefabricated interface are used for the creation of hybrid abutments and hybrid abutment crowns.



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.



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.

The Value blocks V1, V2, V3 have been replaced with the new MT blocks B1, BL4 and BL3.



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 (e.g. Multilink® Automix), self-adhesive or conventional (e.g. SpeedCEM®) 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 working step.



COOPERATION WITH INNOVATIVE PARTNERS

The success of IPS e.max CAD is based on the long-standing cooperation with innovative partners from the CAD/CAM hardware and software sectors.

These collaborative efforts have produced optimally adjusted and validated processes providing a high level of quality and ensuring high-precision restorations. Our partners, who manufacture classical in-house systems for laboratory and chairside use, include: KaVo Dental GmbH, Planmeca, Sirona Dental Systems GmbH and Wieland Dental.



In addition, there are a myriad of Authorized Milling Partners around the globe. These are certified milling centres with coordinated processes, who supply IPS e.max CAD restorations with an excellent surface finish.



IPS e.max CAD for Zenotec is available from Wieland Dental.

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
HT High Translucency	✓	✓	✓			✓	✓	✓	✓					
MT Medium Translucency	✓	✓	✓		✓	✓	✓		✓	✓				
LT Low Translucency	✓	✓	✓				✓		✓	✓	✓ ²⁾		✓	✓
MO Medium Opacity				✓						✓ ³⁾			✓	
I Impulse	✓	✓	✓			✓	✓							

1) the cut-back technique must not be used for thin veneers
 2) only up to the second premolar as the distal abutment
 3) up to the second premolar