CAD
The original lithium disilicate CAD/CAM glass-ceramic

IPS e.max®

Dental technician

All ceramic, all you need.
Excellent quality and esthetics

IPS e.max® CAD is the world’s top-selling CAD/CAM glass-ceramic. The material provides a proven and efficient solution for fabricating lithium disilicate restorations in the dental laboratory.

Due to its superior esthetics, very good mechanical properties and high technique tolerance, the material produces excellent clinical results and enjoys very high customer satisfaction.

Exceptional esthetics

For anterior teeth in particular

Well-thought-out assortment

The right block for every situation

High strength

530 MPa

IPS e.max CAD is based on the IPS e.max all-ceramic system, which dentists, dental technicians and patients have been relying on for many years. It is therefore the product of extensive knowledge and experience and exceptional passion.

Made of the legendary blue block

1 Based on sales figures

2 Typical mean value of the biaxial flexural strength over a period of 10 years, R&D Ivoclar Vivadent, Schaan, Liechtenstein
IPS e.max CAD has an unrivalled indication spectrum in CAD/CAM glass-ceramics. Due to the high strength (530 MPa) of the lithium-disilicate glass-ceramic, full-contour crowns of minimum 1 mm thickness as well as thin veneers of minimum 0.4 mm can be produced.

**Outstanding versatility**

IPS e.max CAD A14 and A16 blocks are used to produce hybrid abutments (individual abutments) and hybrid abutment crowns (abutment and monolithic crown in one piece). The abutments feature a prefabricated interface for the extraoral bonding with a titanium base (e.g. Dentsply Sirona Ti-Base).

1 typical mean value of the biaxial flexural strength over a period of 10 years, R&D Ivoclar/Vivadent, Schaan, Liechtenstein

**Abutment Solutions**

**Individual restorations**

The hybrid abutment restorations made of IPS e.max CAD show exceptionally high accuracy of fit, excellent adhesive bond strength and lasting esthetics due to the tooth-coloured abutments.

Abutment solutions are flexible and efficient: IPS e.max CAD is suitable for implant-supported single-tooth restorations.

Precision and esthetics
The assortment of IPS e.max CAD blocks comprises a well-thought-out selection of shades and translucency levels that will enable restorations to blend in seamlessly with the natural tooth structure. A suitably coloured block is available for virtually every clinical situation. The restorations can be customized by means of the staining, cut-back or layering technique.

IPS e.max CAD blocks are equipped with the attachments for the authorized CAD/CAM systems PrograMill (Ivoclar Digital), CEREC/InLab® (Dentsply Sirona) and PlanMill (Planmeca).

### Shade Navigation App

**Five easy steps to finding the correct shade and translucency level**

<table>
<thead>
<tr>
<th>Block</th>
<th>IPS e.max CAD HT</th>
<th>IPS e.max CAD MT</th>
<th>IPS e.max CAD LT</th>
<th>IPS e.max CAD MO</th>
<th>IPS e.max CAD Impulse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transluceny</td>
<td>High translucency similar to that of natural enamel</td>
<td>Medium translucency</td>
<td>Low translucency similar to that of natural dentin</td>
<td>Medium opacity</td>
<td>Lifelike opalescent effect for the replacement of enamel</td>
</tr>
<tr>
<td>Shades*</td>
<td>20 (4 Bleach BL, 16 A-D)</td>
<td>7 (B2, B3, B4, A1, A2, A3, B1)</td>
<td>20 (4 Bleach BL, 16 A-D)</td>
<td>5 (MO 0, MO 1, MO 2, MO 3, MO 4)</td>
<td>2 (Opal 1, Opal 2)</td>
</tr>
<tr>
<td>Sizes*</td>
<td>I12, C14, B40, B40L</td>
<td>C14</td>
<td>I13, C14, C16, A14, A16, B32</td>
<td>C14, A14</td>
<td>C14</td>
</tr>
<tr>
<td>Indications</td>
<td>Thin and occlusal veneers, Inlays, Onlays, Partial crowns</td>
<td>Thin and occlusal veneers, Inlays, Onlays, Partial crowns</td>
<td>Veneers, Partial crowns, Crowns, Bridges, Hybrid abutment crowns</td>
<td>Frameworks on lightly stained cores, Thin occlusal veneers</td>
<td>Veneers, Inlays</td>
</tr>
<tr>
<td>Technique</td>
<td>Polishing, Staining, Cut-back, CAD-On</td>
<td>Polishing, Staining, Cut-back</td>
<td>Polishing, Staining, Cut-back</td>
<td>Layering</td>
<td>Polishing, Staining, Cut-back</td>
</tr>
</tbody>
</table>

* The range of products varies according to the different CAD/CAM system and block sizes (depending on the software solutions). The availability of block types, sizes and shades may vary from country to country.
You can rely on the original all-ceramic
“I can rely on the legendary blue blocks: The esthetic results are outstanding and the clinical long-term studies on longevity and stability are impressive.”

Dominique Vinci
Switzerland
IPS e.max CAD offers outstanding esthetics and strength. It has obtained excellent reviews with regard to its resistance to delamination, fracturing, marginal leakage and staining. Its survival rate is exceptional: No wear was reported for any of the restorations placed.3

**96.1 % survival rate**

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**High flexural strength**

The biaxial strength values as well as the fracture resistance values of IPS e.max CAD were significantly higher than those of the other materials tested. The difference between fired and unfired, but polished Celtra Duo restorations was minimal. Zirconium oxide-reinforced lithium silicate did not show any advantages over lithium disilicate in clinical trials.4

**Long-lasting results**

An in-vitro study has established that the probability of fracture of an IPS e.max CAD restoration is below 1% after 15 years in situ, while it is above 10% for restorations made of competitive materials.

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1 IPS e.max® Scientific Report Vol. 03 / 2001 – 2017
5 “Ring on Ring Test” acc. to ASTM (American Society for Testing and Materials) C1499, Jülich Forschungszentrum (Institut für Energie- und Klimaforschung (IEK), Abteilung: Werkstoffstruktur und -eigenschaften (IEK-2)), 2018

* These brands are not registered trademarks of Ivoclar Vivadent AG.
A finely tuned **system** for **impressive results**

### 1. Simplified block selection

The IPS e.max Navigation App (SNA) assists you in finding the most suitable shade and translucency - for reliable and relaxed working.

### 2. Fast, precision milling

IPS e.max CAD is efficiently and rapidly machined in the PrograMill milling machines to produce high-precision results. The state-of-the-art milling machines are specially designed to machine IPS e.max CAD.

### 3. Optimum enhancement

The sophisticated and innovative Programat® combines high-tech and futuristic design in a highly efficient and user-friendly ceramic furnace. The furnaces increase your profitability and efficiency and heighten the precision of your results.

### 4. Esthetic ceramic layers

IPS e.max Ceram is a versatile layering ceramic featuring intuitive modelling properties and excellent stability.
- Consistent layering scheme
- Harmonious shade adjustment
- Excellent firing behaviour

### 5. Precision characterization/glazing

The stains and glazes of the IPS Ivocolor® assortment enable you to customize crystallized IPS e.max CAD restorations.
- Simplified handling due to innovative paste formulation
- High gloss at a firing temperature of only 710° C
- Fluorescence with IPS Ivocolor Glaze Fluo

### 6. Appropriate cementation

Ivoclar Vivadent supplies a specialized cementation system for use with IPS e.max CAD. Depending on the indication at hand, the restorations can be placed using either the adhesive, self-adhesive or conventional luting technique:
- Esthetic cementation with the Variolink® Esthetic luting composite
- Easy conditioning with the self-etching glass-ceramic primer Monobond Etch & Prime®

Finding your way out of the cements maze: [www.cementation-navigation.com](http://www.cementation-navigation.com)