IPS e.max®

Press

The original lithium disilicate press ceramic

All ceramic, all you need.

ivoclar vivadent®

passion vision innovation

The legendary **press ceramic**

IPS e.max® Press is the original premium lithium disilicate glass-ceramic (LS_2) for the press technique. It combines accuracy of fit with excellent function and outstanding esthetics as well as high strength. Moreover, IPS e.max Press is exceptionally user-friendly. The material comes in a wide range of shades and translucency levels for utmost flexibility. The possibility of combining digital and conventional working procedures allows you to significantly increase the reliability and efficiency of the entire press process.

Exceptional **esthetics**

lifelike, harmonious, individual

Well-thought-out assortment

a suitable ingot for virtually every dental application

Efficient production

smoothly combining the pressing process with the digital printing process

Trust builds **confidence**

more than 150 million restorations, a survival rate of over 96%[1] and more than 15 years of experience. The IPS e.max guarantee of 10 years is as promising as the material itself.

[1] IPS e.max® Scientific Report vol. 03/2001 – 2017

The **most widely used**[1] **press ceramic** in the world

[1] Based on sales figures

Wide
application spectrum

IPS e.max Press covers an extensive application spectrum. It is the only press ceramic on the market that allows you to produce monochromatic restorations as well as polychromatic and implant-supported restorations. Due to the high strength of the lithium disilicate glass-ceramic, full-contour crowns with a minimum thickness of one millimetre can be produced.

Veneers

≥ 0.3 mm

Occlusal veneers
(Table tops)

≥ 1.0 mm

Inlays

Onlays

Partial crowns

Crowns

≥1.0 mm in the anterior and posterior region

Three-unit bridges

in the anterior and posterior region (2nd premolar as the final abutment)

Hybrid abutments e.g. in conjunction with Viteo® Base

in the anterior and posterior region as single tooth restorations

Hybrid abutment crowns, e.g. in conjunction with Viteo® Base

in the anterior and posterior region

As minimally invasive as possible

The goal of modern dentistry is to preserve as much of the natural tooth structure as possible. IPS e.max Press is especially suitable for minimally invasive solutions. Very thin restorations can be produced due to the material's high flexural strength (470 MPa)[1] and high fracture toughness (2.5-3 MPa · $m^{1/2}$)[2]. The outstanding marginal quality and accuracy of fit of IPS e.max Press allow you to fabricate veneers showing a wall thickness of 0.3 mm. Full-contour crowns require a thickness of only 1 millimetre.

[1] Typical mean value of the biaxial flexural strength over a period of 10 years, R&D Ivoclar Vivadent, Schaan, Liechtenstein
[2] Fracture toughness (SENB), R&D Ivoclar Vivadent, Schaan, Liechtenstein

IPS e.max Press pays off

Produce several restorations
in one press cycle.

Well-thought-out **assortment**

The extensive assortment of IPS e.max Press features a suitable ingot for a myriad of clinical situations – matched to the desired restoration shade. IPS e.max Press opens up a wide range of possibilities, whether you choose to use the efficient staining technique, the customized cut-back technique or the highly esthetic layering technique.

	Polychromatic	Monochromatic			
	IPS e.max Press Multi	**IPS e.max Press HT**	**IPS e.max Press MT**	**IPS e.max Press LT**	**IPS e.max Press MO**
Ingot					
Translucency	 Progression of shade and translucency from the dentin to the incisal area	 High translucency similar to that of natural enamel	 Medium translucency	 Low translucency similar to that of natural dentin	 Medium opacity
Shades	10 (BL2, A1, A2, A3, A3.5, B1, B2, C1, C2, D2)	20 (4 Bleach BL, 16 A–D)	12 (BL2, BL3, BL4, A1, A2, A3, A3.5, B1, B2, C1, C2, D2)	20 (4 Bleach BL, 16 A–D)	5 (MO 0, MO 1, MO 2, MO 3, MO 4)
Areas of application	Veneers, crowns, hybrid abutment crowns	Thin veneers, occlusal veneers, veneers, inlays, onlays, partial crowns	Thin veneers, occlusal veneers, veneers, partial crowns, crowns, bridges	Veneers, partial crowns, crowns, bridges, hybrid abutments, hybrid abutment crowns	Frameworks on lightly stained cores, hybrid abutments
Technique	Staining technique Cut-back technique	Staining technique Cut-back technique	Staining technique Cut-back technique	Staining technique Cut-back technique	Layering technique

IPS e.max® Shade Navigation App

IPS e.max Press HO	IPS e.max Press Impulse
	
 High opacity	 Lifelike opalescent effect for the replacement of enamel
3 (HO 0, HO 1, HO 2)	2 (Opal 1, Opal 2)
Frameworks on severely stained cores	Thin veneers, occlusal veneers, veneers
Layering technique	Staining technique Cut-back technique

Five easy steps to finding the correct shade and translucency level

Laden im App Store

JETZT BEI Google play

Impressive **esthetics**

Veneers in the upper jaw:
IPS e.max Press (MT), IPS e.max Ceram
Dr Michele Khabbas / Hilal Kuday, Turkey

" I love the IPS e.max Press MT ingots, because they enable me to design ultra-thin restorations with optimum value. They facilitate my daily work, because I can concentrate on the micro-layering without losing value."

Hilal Kuday
Turkey

Upper anterior crowns: IPS e.max Press (Impulse)

Upper anterior crowns: IPS e.max Press (MO 0), IPS e.max Ceram
Veneers in the lower jaw: IPS e.max Ceram
Posteriors: IPS e.max Press (HT BL3)

" IPS e.max Press Impulse ingots allow you to press restorations that look like they are composed of natural enamel. Due to the combination of opalescence and strength, ultra-thin veneers can be fabricated."

Michele Temperani
Italy

" IPS e.max Press is one of the foundation pillars of our success and has been a loyal and very reliable partner in our daily work for the past 15 years."

Oliver Brix
Germany

Superb
quality

reliable

96.2 %

survival rate[1]

10-year guarantee

complete confidence

high stability

96.2 %
survival rate[1]

Various long-term studies confirm the high level of dependability and impressive reliability of IPS e.max Press. In the 10-year study of K. Malament, a total of 5,113 cumulative years of observation showed a failure rate of 0.14 % per year.

Starting situation

After placement

10 years in situ

Dr Sidney Kina / José C. Romanini, Brazil

2.5 - 3 MPa · m$^{1/2}$
fracture toughness[2]

IPS e.max Press is capable of resisting crack growth for an exceptionally long time. This high fracture toughness inspires confidence.

Fracture toughness [MPa · m$^{1/2}$]

ISO 6872:2015 minimum value Type II / Class 3: 2 MPa · m$^{1/2}$

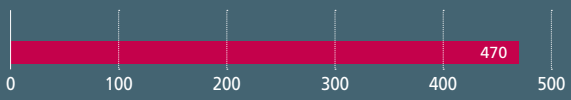
A high fracture toughness is achieved due to the superior resistance to crack propagation: the higher the reading, the better the long-term clinical behaviour.

470 MPa
flexural strength[3]

Since 2005, regular measurements have confirmed the high biaxial flexural strength of IPS e.max Press: The typical mean value over a period of ten years is 470 MPa – an excellent prerequisite for reliable, long-lasting results.

Typical mean value of the biaxial flexural strength over a period of 10 years [MPa]

> 17,000 measurements



ISO 6872:2015 minimum value Type II / Class 3: 300 MPa

High flexural strength is of major importance for load bearing restorations. It is measured as the load or force at the point of fracture.

[1] IPS e.max® Scientific Report, vol. 03/2001 – 2017
[2] Fracture toughness (SENB), R&D Ivoclar Vivadent, Schaan, Liechtenstein
[3] Typical mean value of the biaxial flexural strength over a period of 10 years R&D Ivoclar Vivadent, Schaan, Liechtenstein

PrograPrint
Innovation meets tradition

Would you like to use the digital scan data from your dentist or streamline your conventional wax-up technique? We invite you to expand your portfolio and take advantage of the benefits of the digital press process.

PrograPrint® is a 3D printing system tailored to the requirements of dental laboratories. PrograPrint PR5 is designed to produce inlays, onlays, crowns and bridges for the press technique. The additive manufacturing technique allows you to benefit from the high number of press objects produced at the same time. PrograPrint PR5 allows you print 40 wax crowns in only one printing cycle.

The ProArt Print Wax material is especially designed for this printing system and burns out without leaving any residue. The high accuracy of fit, exceptional detail and smooth surfaces of the wax objects speak for themselves.

- Printing material that reliably burns out and prevents tension/cracks in the investment ring
- High accuracy of fit of the pressed objects
- Fatigue-free working, faithful reproduction of textures and surface details

Programat furnaces
Reliable partners

The high-performance press and ceramic furnaces Programat® EP 3010 and EP 5010 perfectly complement IPS e.max Press. Efficiency and user-friendliness are their hallmarks.

Fully automatic press function (FPF) at the push of a button
Due to the new patented and fully automatic press function, pressing of IPS e.max Press is now even easier and more economical. All you need to do is put the investment ring into the furnace and push the start button – everything else is performed by the furnace itself. It chooses the press program, automatically heats the press chamber to the appropriate temperature and presses the fluid ceramic into the investment ring at the right time.

- Excellent press and firing results
- High process reliability thanks to the fully automatic press function (FPF)
- Infrared Technology (IRT) to monitor the temperature in the investment ring and ensure optimum predrying processes

Obtain impressive **results easily** and **efficiently**

1 Simplified **scanning** and **designing**

The patient's oral situation is digitally recorded with an intraoral or laboratory scanner. This data is used to design the restoration with the CAD/CAM software.

8 Appropriate **cementation**

Ivoclar Vivadent supplies a specialized cementation system for use with IPS e.max Press.

- 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

7 **Characterization** and **glazing**

The stains and glazes of the IPS Ivocolor® assortment enable you to customize all IPS ceramic materials.

- Simplified handling due to innovative paste formulation
- High gloss at a firing temperature of only 710 °C
- Fluorescence with IPS Ivocolor Glaze Fluo

6 Perfect **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

2 **Printing / milling** wax objects

High-precision wax restorations are efficiently and quickly produced by machining ProArt CAD Wax yellow in the PrograMill® milling machines or by printing ProArt Print Wax in the PrograPrint® PR5.

3 Simplified **ingot** selection

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

4 Precision **investment**

IPS® PressVest Premium ensures optimum press results with IPS e.max Press and therefore the fabrication of superior-quality restorations.

- Exact, precision fit
- Extremely smooth, homogenous surfaces

5 **Pressing** at the push of a button

The two intelligent press and ceramic furnaces Programat® EP 3010 and EP 5010 produce outstanding firing results. Restorations are pressed easily and efficiently at the push of a button due to the fully automatic press function (FPF).

ipsemax.com

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