IPS e.max®

IPS e.max® Press –
THE ORIGINAL

ivoclar vivadent®
passion vision innovation

Legendary press ceramic. **Maximum** esthetics. Impressive **reliability**.

Once you have tried IPS e.max® Press, you will never want to be without it again. Dental technicians are absolutely delighted with the esthetics of the lithium disilicate glass-ceramic (LS_2). For more than ten years, they have been using IPS e.max Press for crafting dental masterpieces exhibiting exceptional brilliance and detail. IPS e.max Press embodies the essence of dental laboratory technology: the joy of creating highly esthetic teeth to restore the smiles of patients.

High quality in every respect
The premium original lithium disilicate glass-ceramic IPS e.max Press offers:

- Stable, precision-fit restorations
- Ease of use and intuitive handling
- Lifelike, harmonious results
- Predictable and reliable esthetics

You too can benefit from the most extensive pressed ceramic assortment on the market – for beautiful, natural-looking teeth!

Designed to delight

Dr Luis Sanchez, Mexico / Alen Alić, Croatia
IPS e.max Smile Award 2016, America, 1st place

Exceptionally strong and **reliable**.
Over **10 years** IPS e.max.

IPS e.max Press is based on more than ten years of experience, profound expertise and innovative strength. We are driven by our passion to produce esthetic teeth and the pleasure of seeing happy and smiling patients. Various long-term studies confirm the safety and impressive reliability of the material. As a result, patients can rely on restorations that will last for many years.

Starting situation

After seating the restorations

After 10 years ***in situ*** Dr Sidney Kina / José C. Romanini, Brazil

Maximum dependability

IPS e.max Press is characterized by its high strength. Quality tests of more than ten years show that IPS e.max Press demonstrates a mean biaxial strength of 470 MPa[4]. This value by far surpasses the required standard of 100 MPa for crowns placed with the adhesive technique and 300 MPa for conventionally placed crowns.

> I've been using IPS e.max Press for more than ten years and I can assure you that the material is one of the best products that I've had the privilege of using.

August Bruguera, Spain

97.5%
survival rate[1]

10 years of
clinical evidence

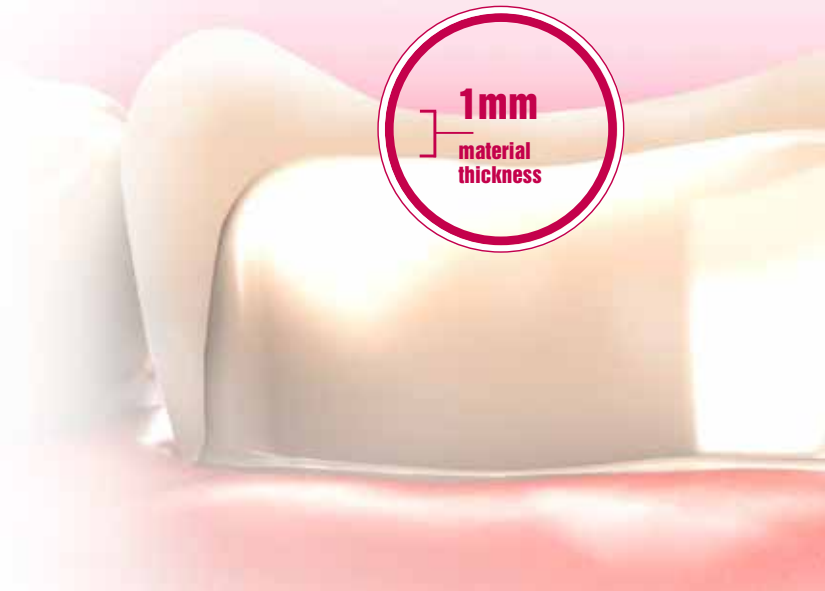
More than 100
million restorations[2]

98%
customer satisfaction[3]

Strength of
470 MPa[4]

[1]IPS e.max Scientific Report Vol. 02/2001-2013
[2]IPS e.max System, based on sales figures
[3]Corporate Marketing Insight Ivoclar Vivadent, Schaan, Liechtenstein
[4]Mean biaxial strength,
R&D Ivoclar Vivadent, Schaan, Liechtenstein

Extensive **spectrum of indications**.
Minimal **layer thicknesses**.



1-mm crown

The main objective of modern dentistry is to maintain the dental hard tissue in the best possible way. The high strength of the lithium disilicate glass-ceramic IPS e.max allows full-contour crowns of only 1 millimetre thickness to be fabricated. IPS e.max Press has enamel-like properties. As a result, the material can be used to produce long-lasting minimally invasive restorations that will restore the function, esthetics and biomechanics of teeth. In the cementation of restorations, it is important to observe not only the proper preparation guidelines, but also the adhesive technique.

IPS e.max® Press Multi.
Fast and reliable.

Dr Petr Hajny, Czech Republic /
Róbert Zubák, Slovakia

Take a step into the future with the press technique and start pressing high-strength, polychromatic restorations. The unique IPS e.max Press Multi ingots produce restorations with a smooth shade transition: high chroma and opacity in the cervical/dentin region and the desired translucency in the incisal region. This allows you to obtain your results with utmost efficiency in one press cycle with subsequent glazing.

As a result of its monolithic structure, IPS e.max Press Multi effectively combines high strength and outstanding esthetics. The restorations produced have a stunningly lifelike appearance, which could only be achieved with time-consuming layering in the past.

Your benefits

- Customized restorations with natural-looking colour transition
- Maximum efficiency in one press procedure
- Layered esthetics - conveniently pressed

Globally unrivalled!

Press in multicolour – glaze – and you're done!

Ingots at a glance.
Precision-fit selection.

Innovative Multi ingots
The innovative Multi ingots are used to fabricate esthetic veneers, crowns and hybrid abutment crowns with natural-looking colour transition. As a result, monolithic restorations exhibit maximum esthetics without any additional characterization.

- **Veneers**
- **Crowns**
- **Hybrid abutment crowns**

IPS e.max® Press Multi

HT ingots with high translucency
The highly translucent HT ingots are ideal for producing small and minimally invasive restorations. They are characterized by their lifelike chameleon effect and excellent adaptation to the residual tooth structure.

- **Thin and occlusal veneers**
- **Veneers**
- **Inlays, onlays**
- **Partial crowns**

IPS e.max® Press HT

MT ingots with pronounced brightness
Restorations made with MT ingots exhibit a medium level of translucency. Due to the appropriate balance between translucency and brightness, they are ideal for creating anterior restorations.

- **Thin and occlusal veneers**
- **Veneers**
- **Partial crowns**
- **Crowns**
- **Bridges**

IPS e.max® Press MT

LT ingots with low translucency
The LT ingots showing low translucency are mainly used for crowns, hybrid abutment crowns and bridges, which are completed with the cut-back technique.

- **Veneers**
- **Partial crowns**
- **Crowns**
- **Bridges**
- **Hybrid abutment crowns**

IPS e.max® Press LT

IPS e.max Press has the largest press-ceramic assortment around. You can choose to fabricate your restorations efficiently with the staining technique, individually with the cut-back method or highly esthetically with the layering technique – everything is possible with IPS e.max Press. The extensive product range contains ingots in a suitable restoration shade to fulfill all your needs.

MO ingots with medium opacity
The ingots featuring medium opacity (MO) are used to fabricate frameworks for vital and slightly discoloured prepared teeth. These opaque ingots offer an ideal basis for natural-looking, veneered restorations.

- **Frameworks on lightly stained prepared teeth**

IPS e.max® Press MO

HO ingots with high opacity
Frameworks made with the highly opaque HO ingots provide optimum coverage for the dark background of stained tooth structure or titanium abutments. In combination with the layering technique, highly esthetic restorations are produced.

- **Frameworks on severely stained prepared teeth**

IPS e.max® Press HO

Impulse ingots with opalescent effect
Impulse ingots are specifically designed to replace dental enamel. They closely imitate the lifelike opalescent effect of front teeth in veneers.

- **Thin occlusal veneers**
- **Veneers**

IPS e.max® Press Impulse

Intelligent shade recommendation

Selecting the correct ingot has never been easier. The IPS e.max Shade Navigation App (SNA) provides you with the correct solution in next to no time. Simply feed the app with the relevant factors that influence the tooth shade as well as the desired final colour, and the app will present the best possible solution.

NEW

Digital Press Design. Trend-setting **software**. **Automatic attachment** of sprues.

The software IPS e.max Digital Press Design consists of two separate add-ons (“Wax Tree” and “Press Multi”). It combines modern CAD/CAM technology with the proven press technique. The innovative software package speeds up the wax-up and spruing steps and significantly enhances the reliability and cost-effectiveness of the entire press process.

Subsequently, the objects are directly transferred to the press process. They are invested in the advanced IPS® PressVest Premium investment material and pressed in the Programat® press furnace. Consequently, IPS e.max Press restorations are produced efficiently and economically.

Digital Press Design – Wax Tree

This software add-on enables you to combine several monochromatic single-tooth restorations and create a wax tree with the aid of computer technology. The press sprues are automatically attached to the restorations and appropriately aligned within the IPS Sprue Guide. The wax trees are 3D printed using e.g. Varseo printers from BEGO.

Your benefits

- Time saving, reliable spruing
- Investment material optimized for 3D printing materials
- Maximum efficiency and coordinated processes

Digital Press Design – Press Multi

This add-on allows you to visually and individually control the colour transition in the fabrication of unique, polychromatic IPS e.max Press Multi restorations. The horizontal press sprues are attached to the restoration in a fully automatic process, depending on the colour transition required.

Once the restorations have been designed, the wax structures are milled in the PrograMill unit using the ProArt® CAD Wax yellow discs, which have been optimized for IPS e.max Press. This material is characterized by its excellent machining properties. In addition, it fires without leaving any residue. The milled restorations feature high accuracy of fit and exhibit smooth and faithfully reproduced surfaces. An ideal way of producing the restorations is to 3D print them using e.g. BEGO Varseo S.

Your benefits

- Automatic attachment of the press sprues
- Visible colour transition helps to control the shade gradient
- High accuracy of fit, precision detail and smooth surfaces
- Milling or 3D printing of the wax structures

CUSTOMIZED

Abutment Solutions. **Customized** results.

The high biocompatibility of IPS e.max lithium disilicate ceramic has been proved in more than a decade of clinical use and by the results of several recognized testing institutes.

IPS e.max Scientific Report Vol. 02/2001-2013

IPS e.max Press is used to create individual, esthetic hybrid abutment restorations in combination with Viteo® titanium bonding bases. Two options are available for this purpose:

1

Hybrid abutments

The hybrid abutment is an individually pressed lithium disilicate abutment, which is bonded to a titanium bonding base, e.g. Viteo Base. The shape, emergence profile and esthetics of this type of abutment can be adjusted to suit the clinical situation in question. The pressed abutment is extraorally bonded to the titanium bonding base with Multilink® Hybrid Abutment. Then it is screwed in place and permanently restored with an IPS e.max crown. The fabrication of a customized hybrid abutment in the laboratory offers a fast and flexible approach.

2

Hybrid abutment crowns

A hybrid abutment crown combines the abutment and crown in one. It is monolithically pressed and then securely bonded to the titanium bonding base with the help of Multilink Hybrid Abutment and subsequently screwed in place. The very tricky bonding procedure in the mouth and the removal of excess cement is eliminated. The screw channel is sealed with a resin composite material, e.g. Tetric EvoCeram®. As a result, the screw can be accessed at any time if necessary.

NEW

Viteo® Base

Viteo Base is a titanium bonding base for implant-supported single-tooth restorations. This base featuring internal anti-rotation protection has a special “soft edge” design, which optimally supports ceramic materials such as IPS e.max. The preconditioned bonding surface ensures fast and reliable bonding. The abutment height can be customized to meet the requirements of the prosthetic situation.

NEW

IPS® PressVest Premium.
Precision investment.

The IPS® PressVEST Premium investment material and IPS e.max Press form a powerful team and produce striking press results. IPS PressVest Premium is suitable for the popular speed and the conventional heating methods. The fine, dense consistency ensures consistent quality and smooth and silky, homogeneous surfaces. The investment process has never been easier.

Your benefits

- Impressive accuracy of fit
- Minimal reaction layer
- Smooth surfaces and high accuracy of detail
- For speed and conventional heating methods
- Optimized for ProArt® CAD Wax and 3D printing materials

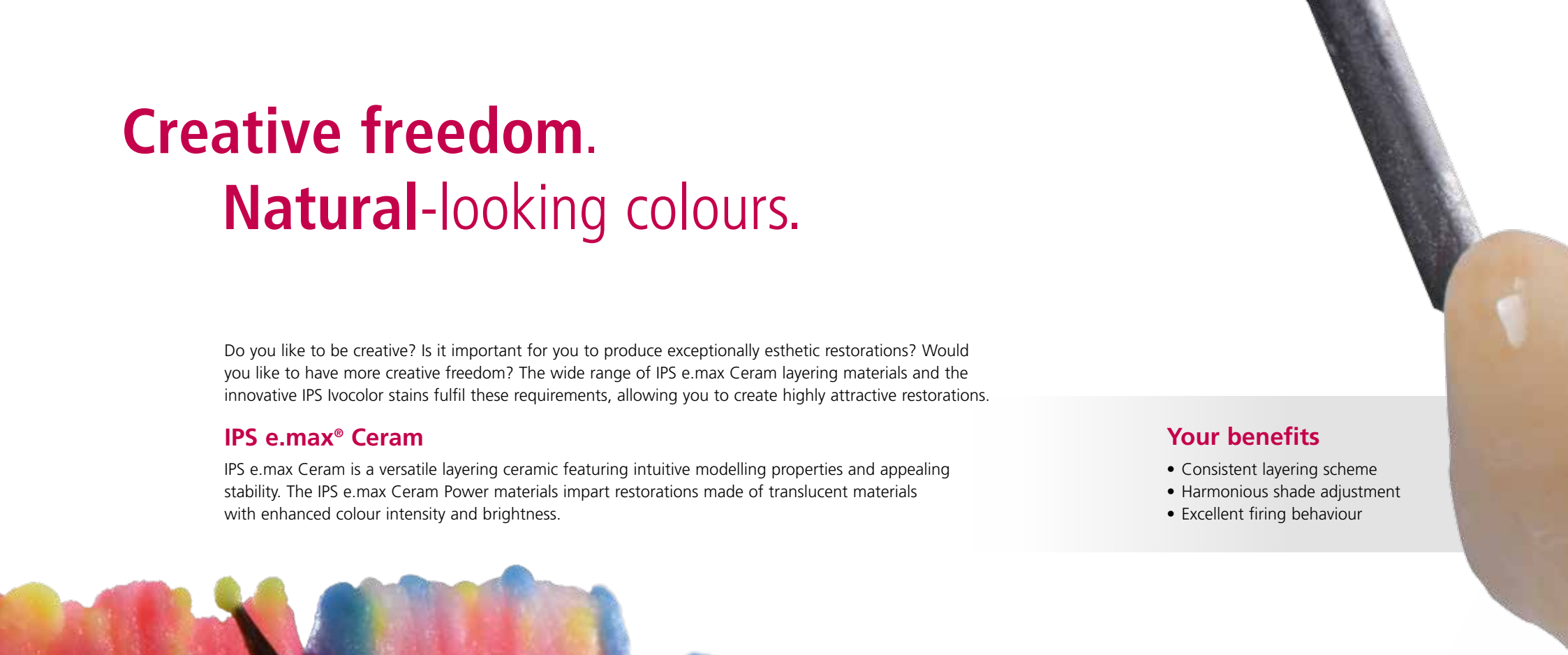
Minimal reaction layer

IPS PressVest Premium demonstrates only a minimal reaction layer which can be easily removed. This simplifies divesting and saves time.

Conventional press investment material

IPS® PressVest Premium

Creative freedom.
Natural-looking colours.



Do you like to be creative? Is it important for you to produce exceptionally esthetic restorations? Would you like to have more creative freedom? The wide range of IPS e.max Ceram layering materials and the innovative IPS Ivocolor stains fulfil these requirements, allowing you to create highly attractive restorations.

IPS e.max® Ceram

IPS e.max Ceram is a versatile layering ceramic featuring intuitive modelling properties and appealing stability. The IPS e.max Ceram Power materials impart restorations made of translucent materials with enhanced colour intensity and brightness.

Your benefits

- Consistent layering scheme
- Harmonious shade adjustment
- Excellent firing behaviour

IPS e.max® Ceram Selection

The Enamel and Effect materials of the IPS e.max Ceram Selection range complement the IPS e.max Ceram assortment. The materials are characterized by their brilliant colours and superb light-optical properties. They are the product of the ideas contributed by passionate and highly experienced dental technicians. A selection of twelve special powders helps you to recreate individual tooth characteristics and fabricate highly esthetic, natural-looking restorations.

IPS Ivocolor
IPS Ivocolor is the ideal staining and glazing assortment for IPS e.max Press and all other IPS ceramics. The selective colour compositions give you the freedom you need to effectively characterize your restorations. Finely ground glass, delicate shade nuances, a new gel structure for the pastes and coordinated liquids simplify handling and produce brilliant results. With the new glazes, colours remain unchanged during the firing process.

Your benefits

- Universal staining and glazing assortment
- Simplified handling due to an innovative paste formulation
- High gloss at a firing temperature of only 710 °C

Programat®. Dependable partners. Trendsetting **innovations.**

The intelligent press and ceramic furnaces, Programat® EP 3010 and EP 5010, show a level of performance, which leaves nothing to be desired. They are the perfect complement to IPS e.max Press. Efficiency and user friendliness are their hallmarks. The Programat furnaces have been developed on the basis of many years of experience and successful use.

NEW

Fully automatic press function (FPF) - at the push of a button
The new fully automatic press function (FPF) makes it even easier to press IPS e.max Press efficiently and economically. You simply press the FPF button, place the press ring in the press furnace and start the program. The Programat furnace takes care of the rest. It heats up the press chamber to the required temperature and then presses the ceramic into the ring at just the right moment. The post-pressing time and the cooling process are also controlled automatically.

Your benefits

- Excellent pressing and firing results
- Intelligent and user-friendly fully automatic press function (FPF)
- Infrared technology (IRT) controls the ring temperature and ensures optimum pre-dyring processes

Achieving excellent press results is now even easier

Your expertise.
Modern **cementation materials**.

When they place restorations, dentists can choose between adhesive, self adhesive or conventional cementation methods, whichever technique best suits the indication being treated. The Cementation Navigation System (CNS) supports dentists in the selection of the most suitable cementation material and shows the possibilities offered by the cementation materials provided by Ivoclar Vivadent.

IPS e.max Press restorations need to be etched before they are placed. The restorations are subsequently polished to a high gloss with a diamond polishing system (e.g. OptraFine®).

www.cementation-navigation.com

Dr Federico Brunner /
Petr Mysicka, UK

Popular cementation materials

Monobond Etch & Prime®
The innovative single component ceramic primer etches and silanates glass-ceramic surfaces in one step. As a result, hydrofluoric acid etching is unnecessary.

Variolink® Esthetic
The light and dual-curing luting composite combines unparalleled esthetics with user-friendly handling. The Effect shade system allows restorations to be lightened or darkened in stages.

Multilink® Automix
In combination with the universal bonding agent Monobond® Plus, this universal luting system is suitable for the placement of indirect restorations made of silicate and oxide ceramics, metal and metal-ceramics as well as composite resins. The effectiveness of the product has been proven in numerous, partly long-term studies. For example, the survival rate in terms of restoration adhesion has been shown to be 99 %*.

* Source: Multilink Automix Scientific Report, Vol. 01/2012

Fixed prosthetics

IPS e.max® forms a part of the "Fixed Prosthetics" product category. The products of this category cover the procedure involved in the fabrication of fixed prosthetic restorations – from temporization to restoration care. The products are optimally coordinated with each other and enable successful processing and application.


Telio®


IPS e.max®


Programat®


IPS e.max®


Variolink® Esthetic


Cervitec®

PREPARE | RESTORE | PROCESS | FINISH | PLACE | MAINTAIN

THESE ARE FURTHER PRODUCTS OF THIS CATEGORY:

Programat®

Press and ceramic furnaces for demanding requirements

Packed with proven technology and advanced innovations

- Outstanding press and firing results
- Ideally coordinated with the ceramic materials of Ivoclar Vivadent
- Easy operation

Variolink® Esthetic

The esthetic luting composite

The luting composite for exceptional esthetics and user-friendly processing

- Balanced and concise Effect shade system
- Excellent shade stability due to amine-free composition
- Easy, controlled excess removal

Would you like to know more about the products of the "Fixed Prosthetics" category?
Simply get in touch with your contact person at Ivoclar Vivadent or visit www.ivoclarvivadent.com for more information.

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