IPS Empress® CAD for CAD/CAM technology – information for Dentists

Confidence
Reliability
Esthetics

Empress® CAD
The world’s leading all-ceramic
IPS Empress revolutionized the processing of ceramic materials more than 15 years ago. Because of its numerous benefits, for example, its high precision and aesthetic appearance, IPS Empress has become very popular with dental professionals and patients around the world, with more than 33 million restorations having been fabricated with the material to date. As a result, the system has gained a reputation for producing long-lasting, natural-looking results and maintaining high quality standards.

In recent years, the expectations of patients with regard to aesthetics and biocompatibility have continued to rise quite considerably. As a consequence of this “aesthetic revolution” and the emergence of new processing techniques, all-ceramics have become very popular. Therefore, the time has come to fulfill the demand for heightened aesthetics and all-ceramics by introducing a new IPS Empress material.

With the new IPS Empress CAD Blocks you can mill your restorations in your CEREC® unit from Sirona and at the same time enjoy the benefits offered by the IPS Empress System. This new material allows you to fabricate highly aesthetic IPS Empress all-ceramic restorations, such as inlays, crowns and veneers chairside.

More than 15 years of clinical experience give you a good feeling. You can depend on these highly aesthetic blocks, as they have the same time-tested leucite glass-ceramics composition as IPS Empress Esthetic. The IPS Empress materials are made of an extremely homogeneous leucite-based ceramic, which scatters light like natural enamel and blends in well with its surroundings. The material is highly translucent and has a natural appearance. IPS Empress CAD obtains its outstanding homogeneity and strength of 160 MPa in an optimized industrial manufacturing process. Highly aesthetic all-ceramic restorations for individual teeth, such as inlays, onlays, crowns and veneers, can be efficiently fabricated with IPS Empress CAD Blocks in chairside procedures. Nevertheless, the teeth have to be prepared carefully beforehand to establish the prerequisites needed for the correct fit of the restoration and long-lasting results. Special attention must be given to the design of the margin and the minimum thickness of the ceramic.

Subsequently, your IPS Empress restorations can be quickly and efficiently polished to a high-gloss or characterized with staining materials in a few easy steps and then glazed to further enhance their aesthetic appearance.
The extensive assortment of blocks allows you to choose the one that best suits each case requirements. The exceptional glass ceramic is available in two levels of translucency: HT (High translucency) and LT (Low translucency). Within these translucency levels, there is a choice between Chromascop and A–D shades. The blocks are supplied in six sizes, which are adjusted to the different indications.

The IPS Empress CAD HT blocks exhibit a higher translucency and lower value than the LT blocks. They are particularly suitable for fabricating inlays and onlays because of their exceptional “chameleon effect”. The high translucency of the material and its lifelike fluorescence allow the restoration to blend in seamlessly with the surrounding dentition.

The IPS Empress CAD LT blocks are characterized by their high level of brightness and translu-
cency values. Therefore, they are particularly suitable for fabricating larger restorations.

The specially adjusted brightness of the material prevents “glowing” of full and partial restorations. The blocks demonstrate a natural-looking fluorescence, which matches the different indications. Therefore, the restorations seamlessly blend in to the remaining dentition under different light conditions.

In response to the growing demand for lighter tooth colour, IPS Empress CAD LT blocks are also available in four modern bleach shades: BL1–BL4.

The IPS Empress CAD HT Multi Blocks are characterized by their high level of brightness and translu-
cency values. Therefore, they are particularly suitable for fabricating inlays and onlays as well as veneers.

Two bleach shades BL1 to BL4.

IPS Empress CAD LT Multi Blocks are available in the five most popular A–D shades.

The blocks feature a high level of chroma and lifelike fluorescence in the cervical areas and the desired level of translucency in the incisal region. The precisely adjusted transition of colour and fluorescence enables you to fabricate beautiful and reproducible restorations with remarkable efficiency.

IPS Empress CAD Multi Blocks are available in the five most popular A–D shades. They are ideal for fabricating full and partial crowns as well as veneers. The blocks feature a high level of chroma and lifelike fluorescence in the cervical areas and the desired level of translucency in the incisal region. The precisely adjusted transition of colour and fluorescence enables you to fabricate beautiful and reproducible restorations with remarkable efficiency.

IPS Empress CAD Multi Blocks.

HIGHLIGHTS OF IPS EMPRESS CAD HT BLOCKS

- High translucency, low value
- Outstanding “chameleon effect” and lifelike fluorescence
- Ideal for the fabrication of inlays, onlays, and veneers

HIGHLIGHTS OF IPS EMPRESS CAD LT BLOCKS

- True-to-nature brightness and chroma, resembling no “glowing” of the restoration
- Fluorescence similar to that of dentin
- Ideal for the fabrication of partial and full crowns

INDICATIONS OF IPS EMPRESS CAD BLOCKS

IPS Empress CAD Multi Blocks

- Ideal for the fabrication of partial and full crowns
- Ideal for the fabrication of veneers

IPS Empress CAD LT Blocks

- High translucency and chameleon effect
- Low brightness value
- High brightness value

IPS Empress CAD HT Blocks

- High translucency and chameleon effect
- Low brightness value
- High brightness value

IPS Empress CAD Multi Blocks

- Life-like transition of shades, translucency and fluorescence
- Full crowns
- Partial crowns
- Veneers
A variety of characterization options

As a result, you will be able to

further enhance the overall
gisting the restoration.

The Programat P300 is

you achieve exceptionally

Aesthetic results in a few

the high-performance LED
tiently with one of

which makes each tooth

IPS Empress CAD allows you
ting your patients with

your most demanding

IPS Empress restora-
tions can be characterized

the individual requirements of your patients.

INTERNAL SHADING

Tetric Color is used for

the internal shading of the

restoration to strike the

features that make

Teeth and veneers and anterior
crowns can be

characterized in this manner.

CUTBACK TECHNIQUE

In the outblock technique, the

initial kind of fully

anatomical IPS Empress CAD

veners and anterior
covers.

a natural-looking and highly
anesthetic incisal third.

The incisal third of fully

anatomical IPS Empress

CAD restorations is

tooth individual.

the incisal third of fully

anatomical IPS Empress

CAD restorations is

The IPS Empress CAD

System

is used for

the Programat P300

which is

is applied to the

of the restoration is

The IPS Contract Spray

Chairside

is suitable for

internal shading.

It adjusts the optical

properties of dentin and
crown and the tooth to

be scanned successfully.

The light-curing Tetric Color

Chairside option is

characterized with light-
curing Tetric Color or

IPS Empress materials.

The IPS Contrast Spray

Chairside system

is the gold standard

for the characterization of

IPS Empress restorations.

Variolink is always the right

choice when long-lasting,

high quality results are

the classic

Variolink II has been

regarded as the

“gold standard” for the

cementation of IPS Empress

restorations. It is especially

recommended for:

IPS Empress restorations to

be placed highly aesthetic

restorations (eg, veneers).

As a result of the “value

system”, translucent glasses

can be lightened or
darkened in stages.

IPS Empress CAD

restorations.

IPS Empress CAD

restorations

is the right choice

for firing externally

shaded IPS Empress CAD

pieces and restorations

characterized using the cutback

technique. The unit is

compact and concentrates

the essential attributes of this

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IPS Empress CAD allows you to provide your patients with highly aesthetic restorations in only one appointment. A wide range of optimally coordinated products is available to facilitate the treatment procedure, from shade determination to cementation. In addition to making your job easier, they will also enhance the overall quality of the restoration.

Ask your Ivoclar Vivadent consultant for more detailed information about the individual products and systems or visit www.ivoclarvivadent.com.