

PRACTICE

PrograMill
one

**SHAPE YOUR
DENTAL FUTURE**

ivoclar
digital:



ivoclar
digital:®

EVERYTHING FOR CHAIRSIDE RESTORATIONS

True innovation proves itself in use. A prime example of this is IPS e.max® CAD.

Bringing technologies together

Imagine that leading technologies would be brought together in an open and yet integrated digital workflow and they would be accessible to everybody. This is exactly what the process chain of Ivoclar Digital offers. It allows patients to benefit from accurate, highly esthetic IPS e.max restorations.

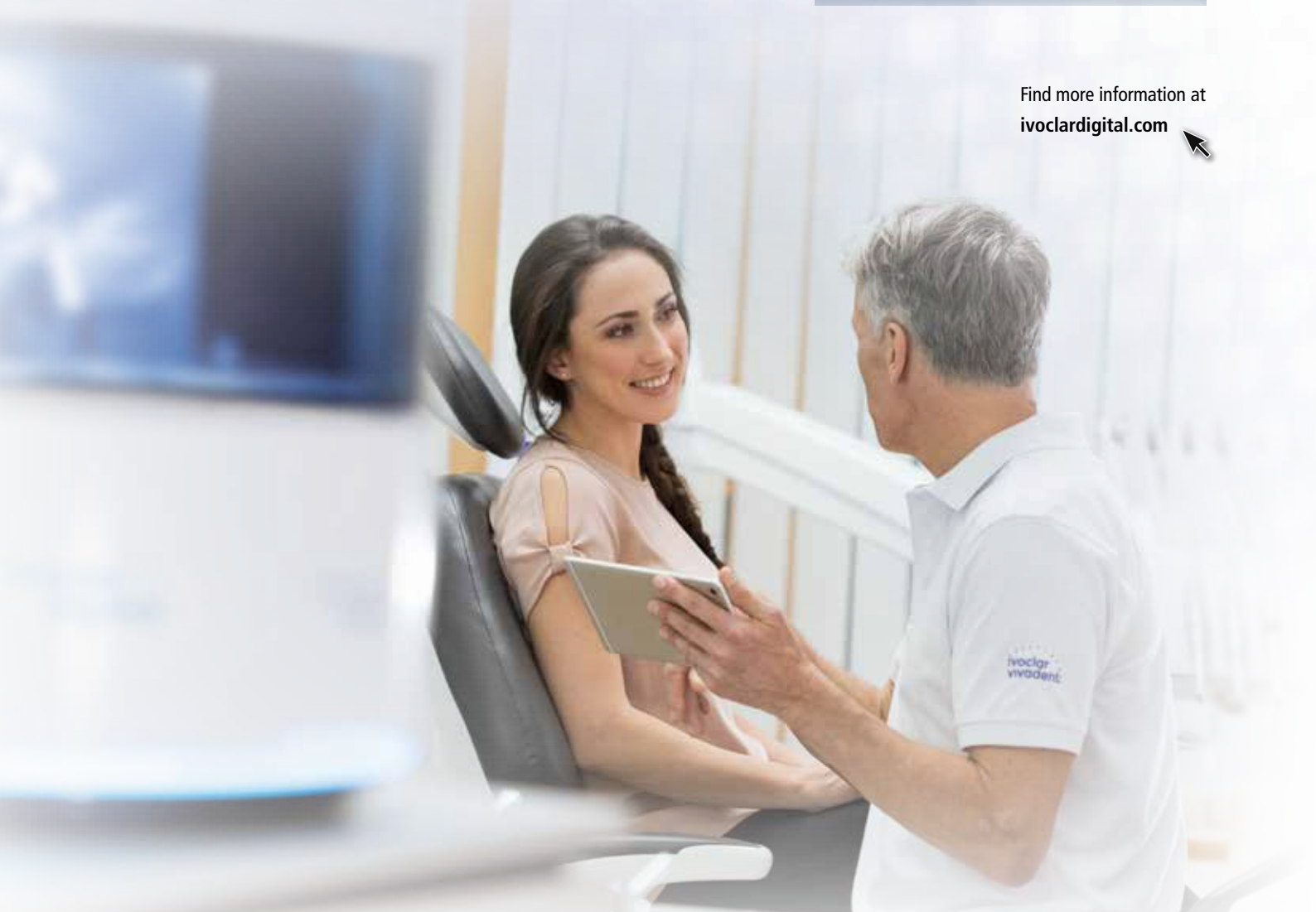
Ideally integrated components

The workflow comprises the IvoSmile consultation software, a 3Shape TRIOS® intraoral scanner, the intuitive TRIOS Design Studio software and the unique PrograMill® One – a milling machine that has been especially designed for IPS e.max.

YOUR BENEFITS

- Efficient and time-saving procedures
- Completely integrated, validated workflow
- Accurate IPS e.max restorations

Find more information at
ivoclardigital.com



CUTTING-EDGE TECHNOLOGY FOR IPS e.max[®] RESTORATIONS

Making what is good even better. This has been the motivation behind the development of PrograMill[®] One – the ultra-compact 5-axis milling machine featuring unique 5-axis turn-milling technology (5XT).

YOUR BENEFITS

- Outstanding surface quality
- Excellent fit
- Short processing times



CONSULT

IvoSmile[®] – WHERE BEAUTIFUL SMILES BEGIN



Tap into the curiosity of your patients effectively and effortlessly

IvoSmile is an innovative iPad app, developed for dental professionals. IvoSmile uses augmented reality to visualize the possibilities for esthetic treatment options directly on the patient.

Get your patient interested in a dental smile makeover: Use virtual images to show your patients the possibilities for enhancing their smiles effectively and quickly. Explain complex treatment processes easily and help your patients gain a clearer picture of the treatment goal. This will make it easier for them to decide whether they want to commit their time and money to the process of detailed cosmetic treatment planning.

IvoSmile includes a Bleaching option to simulate bleached natural teeth. You can therefore also use the app to advise your patients on the ideal degree of whiteness.



VIRTUAL MIRROR
INSPIRE YOUR PATIENTS
WITH AUGMENTED REALITY

Find out more about IvoSmile at:
<http://blog.ivoclarvivadent.com/ivosmile>



The IvoSmile app is designed for Apple iPads⁽¹⁾ and can be downloaded from the Apple App Store; a 30-day free trial period of the fully featured app is included in the download.

¹ Not a registered trademark of Ivoclar Vivadent AG



I use the IvoSmile app as an aid in advice giving. Patients are impressed with the real-time visualization and get a clearer picture of the esthetic treatment.



Dr Arnd Peschke, R&D Ivoclar Vivadent AG, Schaan, Liechtenstein

YOUR BENEFITS

- Enhance the quality and effectiveness of your advice giving with personalized and time-saving real-time presentations.
- Facilitate the collaboration and coordination between you, your patient and your lab partner.

DESIGN

3Shape TRIOS[®] – PATIENT-FRIENDLY, PRECISE AND FLEXIBLE

TRIOS is the world's first wireless intraoral scanner. It offers more scope for movement during scanning and provides more comfort for you and your patients.

Its outstanding quality has earned the scanner multiple renowned rewards, among them the Cellerant Best of Class Technology Award for four years in a row.



wireless

YOUR BENEFITS

- Fast and easy, ensuring enhanced comfort for patients
- Documented high accuracy, providing optimum treatment results and an excellent fit
- A technology enabling quick and easy scanning procedures
- Digital impressions in lifelike colours
- Integrated digital tools, e.g. for patient monitoring and shade selection



3SHAPE TRIOS® DESIGN STUDIO⁽¹⁾

TRIOS Design Studio connects the TRIOS scanner and PrograMill One in intuitive guided workflows for single-visit dental solutions. Plan and create restorations right in your practice in a single day.

- Design crowns, inlays, onlays and veneers using IPS e.max CAD, IPS Empress CAD or Tetric CAD
- Completely integrated workflows with PrograMill One
- One solution for send-to-lab or in-house production

SENDING CASES TO THE DENTAL LAB

3Shape TRIOS allows you to easily connect to TRIOS Ready labs and service providers offering a full range of indications and materials.

- Easy communication and interaction between TRIOS, mobile terminals and web browsers

¹ TRIOS® and TRIOS® Design Studio are not registered trademarks of Ivoclar Vivadent AG.

DECIDE

IPS e.max[®] – THE LEADING CAD/CAM ALL-CERAMIC⁽¹⁾

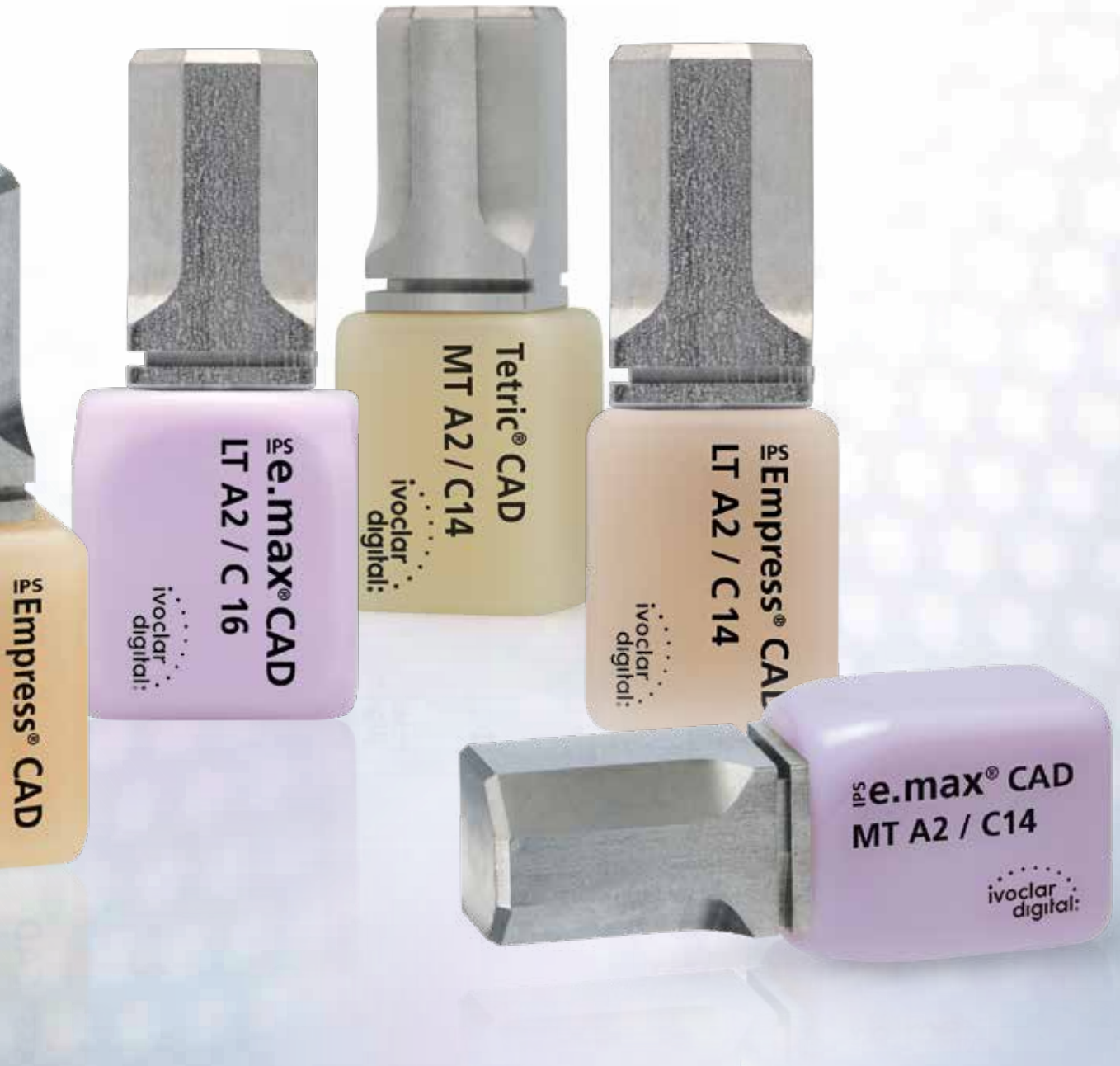
IPS e.max[®] – all ceramic, all you need

IPS e.max is a unique material known for its unparalleled esthetics, strength and flexibility. Depending on the restoration type and preference, the restorations can be seated using either an adhesive, self-adhesive or conventional cementation method.

Equipped with a pronounced chameleon effect, the proven IPS Empress CAD leucite glass-ceramic and the Tetric CAD composite effectively reproduce the optical properties of the natural tooth structure. The single-tooth restorations can be polished and adhesively cemented right away after the grinding process.

¹ Based on sales figures





PrograMill
one

ivoclar[®]
digital:



PRODUCE

PrograMill® One – SETTING NEW STANDARDS

PrograMill One is a smart and very compact 5-axis milling machine. It combines industrial production quality with high precision and modern design. The machine is wireless and can be operated via an app from a tablet or smartphone. This new interplay between man and machine means it can be perfectly integrated within the practice. This is Digital Dentistry 4.0.

MATERIALS

- IPS e.max® CAD
- IPS Empress® CAD
- Tetric® CAD

TYPES OF RESTORATIONS

- Veneers
- Inlays
- Onlays
- Crowns

PrograMill One – SETTING NEW STANDARDS



5XT – the next generation of processing

The innovative 5-axis turn-milling technology (5XT) means the block which is being processed moves around the tool. The infeed remains consistent and the tool never leaves the workpiece. This enables short machining times while keeping tool wear low. The result is an outstanding surface quality and excellent fit of the restorations. Depending on the materials and indications, individual validated machining strategies are used which means rework is reduced to a minimum.

High automation and comfort



A camera integrated within the PrograMill One automatically records all information on materials and tools. This makes the use of different materials extremely easy and material loading very convenient.

The OSD (Optical Status Display) visually informs the user about the current operating status. Material, size, shade and translucency are automatically read in by means of the Data Matrix Code.





5-axis turn-milling technology (5XT)

5-way material and
8-position tool changer

Integrated camera for
a high level of automation

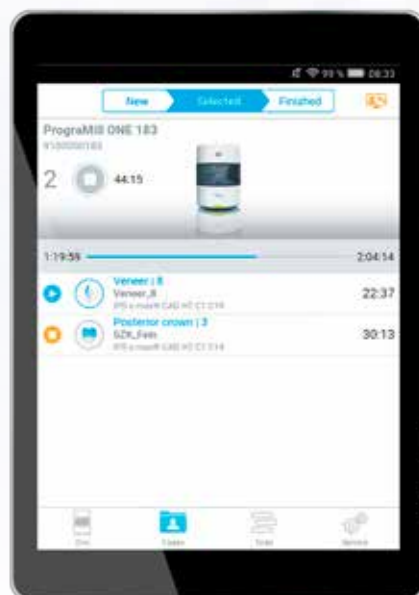
Easy operation via an app

Optical Status Display

PrograMill One App

Everything under control –
always and everywhere.

PrograMill One is wireless and can be operated via an app from a tablet or smartphone. This way you are always informed of the machine's current status.



Order management

- Order list in the overview
- Current processing status
- Control of the 5-axis block changer

Tool management

- Display of tool status
- Control of the 8-position tool changer

Machine management

- Overview of machine data
- Machine status
- Filter unit status

IPS e.max[®] CAD

LITHIUM DISILICATE GLASS-CERAMICS (LS₂)

IPS e.max CAD is the world's best-selling glass-ceramic⁽¹⁾. It is suitable for the efficient fabrication of full-contour restorations and is known for its versatile application options, comprehensive range of indications and for its high strength of 530 MPa⁽²⁾.

Both its esthetic properties and durability have been confirmed by everyday clinical practice.

Polishing technique



Polishing of the "blue" restoration, followed by speed crystallization for 15 minutes.

Staining technique



Glazing of the "blue" restoration followed by speed crystallization for 15 minutes.

PROCESSING OPTIONS

"Blue" restorations can either be:

- polished and then crystallized
- glazed and crystallized in a single step
- stained, glazed and crystallized in a single step

TYPES OF RESTORATIONS

- Veneers
- Inlays
- Onlays (e.g. partial crowns, occlusal veneers)
- Minimally invasive crowns (1 mm)⁽³⁾
- Crowns



YOUR BENEFITS

- Excellent esthetics and high strength of 530 MPa⁽²⁾, efficiently created in the dental practice
- Full range of processing options for your chairside CAD/CAM system
- Depending on the restoration type, an adhesive, self-adhesive or conventional cementation protocol can be chosen
- Clinical long-term success and scientifically documented results



I12



C14



C16

IPS e.max[®] – THE WORLD'S MOST USED⁽¹⁾ ALL-CERAMIC SYSTEM

96%

SURVIVAL RATE⁽⁴⁾

10 YEARS

OF CLINICAL EVIDENCE

OVER 120

MILLION RESTORATIONS⁽¹⁾

98%⁽⁵⁾

CUSTOMER SATISFACTION

¹ Based on sales figures

² Average biaxial flexural strength, measured over 10 years, R&D Ivoclar Vivadent, Schaan, Liechtenstein

³ On the basis of long-term clinical evidence and the material's high strength, the fabrication of crowns with a minimum thickness of 1 mm is allowed if an adhesive cementation technique is used.

⁴ IPS e.max, Scientific Report, Vol. 02/2001-2017

⁵ IPS e.max CAD customer satisfaction survey in Germany and the USA, 2014

IPS Empress® CAD

LEUCITE GLASS-CERAMICS

IPS Empress® CAD is associated with more than 20 years of successful clinical performance. It closely reproduces the natural tooth structure due to its distinct chameleon effect and natural fluorescence. IPS Empress CAD is known for the highest levels of esthetics and can be easily polished to a high gloss.

Grind – polish – done.

Polishing technique



High-gloss polishing using OptraFine®

PROCESSING OPTIONS

Once produced, restorations can be:

- polished
- stained (optional) – glazed

TYPES OF RESTORATIONS

- Veneers
- Inlays
- Onlays (e.g. partial crowns)
- Crowns



112

C14

C14L

YOUR BENEFITS

- Highly esthetic restorations, efficiently created
- Clinically proven ceramic material with a flexural strength of 185 MPa⁽¹⁾
- Optimum shade adjustment to the natural tooth structure due to the chameleon effect

¹ Average biaxial flexural strength, measured over 10 years. Ivoclar Vivadent AG, Schaan, Liechtenstein



Tetric[®] CAD COMPOSITES

Tetric CAD is an esthetic composite block for the efficient fabrication of single-tooth restorations. Due to the pronounced chameleon effect, Tetric CAD restorations blend in well with the residual tooth structure.

Restorations are ground, polished and then seated using an adhesive cementation technique. This processing procedure is very efficient, leading to esthetic results quickly and easily.

Polishing technique



Fast high-gloss polishing in only one step (OpraPol[®])

PROCESSING OPTIONS

Once produced, restorations can be:

- polished
- stained (optional)

TYPES OF RESTORATIONS

- Veneers
- Inlays
- Onlays (e.g. partial crowns, occlusal veneers)
- Crowns



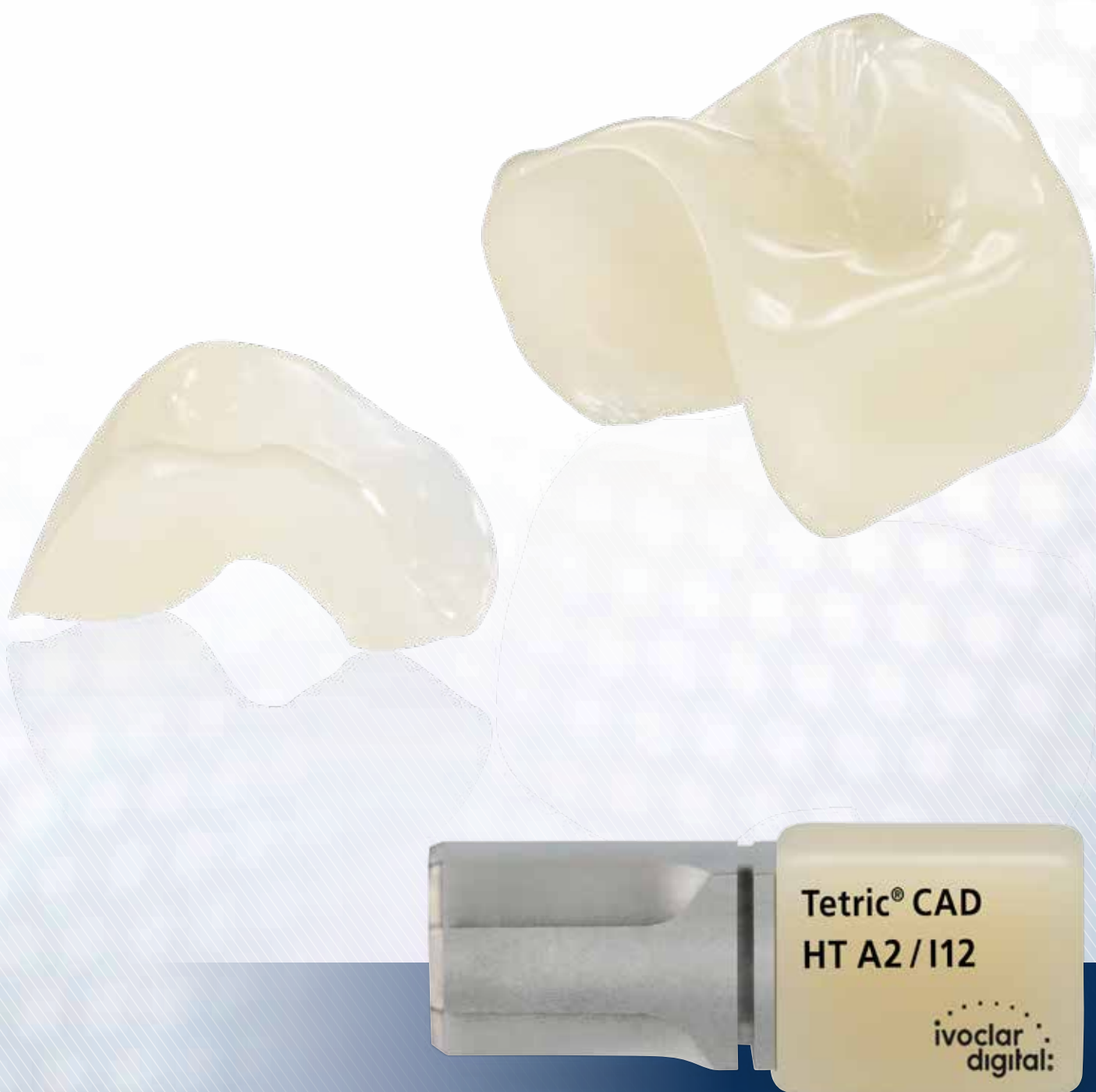
I12



C14

YOUR BENEFITS

- Lifelike integration into the oral environment due to the unique chameleon effect
- Excellent polishability and intraoral repairability
- Easy and efficient processing
- Stability even in restorations with limited layer thicknesses; thinly tapered margins are possible
- Reliable adhesive bond due to a coordinated system of cementation materials



FINALIZING AND FIRING

IPS e.max® CAD Crystall./ Shades/Stains und Glaze

IPS e.max® CAD Crystall./Shades/Stains and Glaze is a universal range of stains and glazes designed for IPS e.max CAD, IPS e.max ZirCAD and IPS Empress CAD.

The glaze is available in two versions – with or without fluorescent effect.



YOUR BENEFITS

- Reduced inventory, reduced costs – a single range suitable for all the CAD/CAM ceramic materials from Ivoclar Vivadent
- Familiar application and consistent high quality
- Glaze with and without fluorescent effect
- Possibility to apply corrections (e.g. proximal contacts) with Add-On

Programat® FOR OPTIMUM FIRING RESULTS

Clinicians and dental technicians all over the world simply love the high quality standard, long service life, homogeneous firing results and straightforward operation, together with the many other innovative features. It is not without reason that the Programat® range is among the best selling⁽¹⁾ ceramic furnaces.



All furnaces are equipped with a power-saving key. In the stand-by mode, the furnaces use 40% less energy.



Programat® CS2

Glazing and crystallization furnace with colour touch screen display



Programat® CS3

Glazing and crystallization furnace with colour touch screen display and Digital Shade Assistant



Programat® CS4

Glazing, crystallization and sintering furnace

Speed
Program

15 min

IPS e.max® CAD

15 min

IPS e.max® CAD

17 min

IPS e.max® CAD

Variolink® Esthetic

THE ESTHETIC LUTING COMPOSITE

Variolink® Esthetic is an esthetic light- and dual-curing luting composite for the permanent cementation of demanding ceramic and composite restorations. The cement is based on the esthetic luting composites Variolink II and Variolink Veneer, which have proven their worth in clinical use for many years.

TYPES OF RESTORATIONS

Restorations made of:

- IPS e.max CAD
- IPS Empress CAD
- Tetric CAD



YOUR BENEFITS

- Balanced and straightforward Effect shade system
- Excellent shade stability due to amine-free formulation
- Easy, controlled clean-up

Ideal for IPS e.max® CAD, IPS Empress® CAD in combination with Monobond Etch & Prime®, the self-etching glass-ceramic primer.



EVERYTHING FOR CHAIRSIDE CAD/CAM RESTORATIONS

The coordinated products out of one hand cover an extensive range of indications.

The benefits: durable, esthetic and accurate restorations paired with efficient and time-saving workflows.

What is in it for me?

- Enhanced quality of your single-visit restorations due to coordinated products with high clinical evidence
- Suitable material and range of shades for each clinical situation
- Improved workflow efficiency due to innovative auxiliaries

What is in it for my patients?

- Time savings: no temporaries and no unpleasant impression-taking
- Reduced need for anaesthetics



IPS e.max® Shade Navigation App

is the intelligent app which assists you in finding the most suitable Ivoclar Vivadent blocks. Just 5 clicks to find the right solution – for an optimum shade match.



CNS: The Cementation Navigation System, the popular multimedia application, offers dentists practical orientation and guidance in the selection of the best luting material for each case.



Conditioning



Crystallization



Polishing



Grinding



Scanning

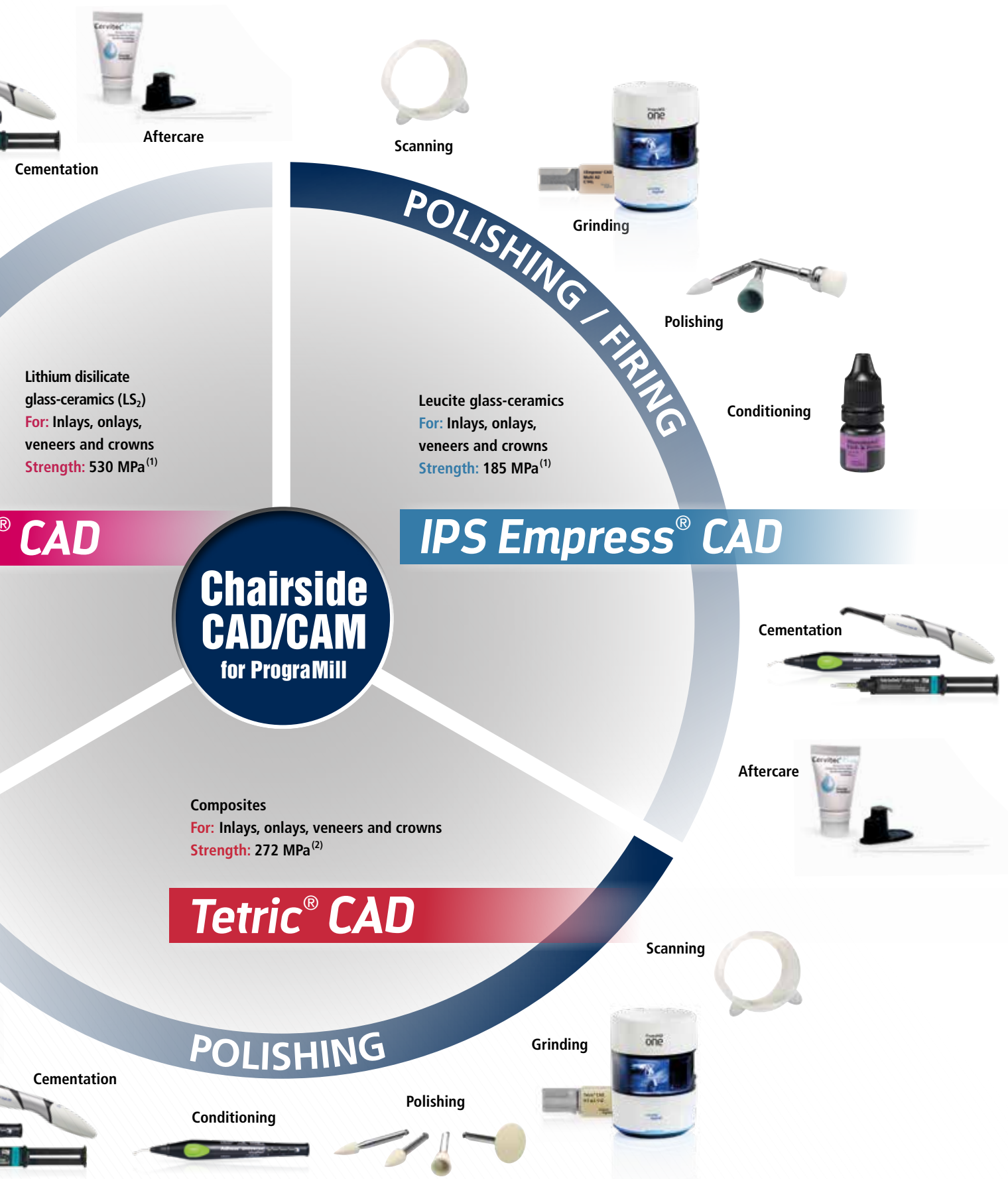


Aftercare

FIRING

IPS e.max®

¹ Average biaxial flexural strength, over a period of 10 years
² Typical mean value of biaxial flexural strength



DIGITAL EXPERTISE UNDER ONE ROOF

Ivoclar Digital is a competent digital partner, which supports dentists and dental technicians along the entire digital process chain. A great deal of importance is placed on simple and understandable procedures. The portfolio for the digital work process is divided into four areas:

CONSULT

IvoSmile®, the innovative software application based on augmented reality, supports the dialogue between dental professionals and their patients

DESIGN

Versatile scanners, intuitive design software from our partners and exclusive add-ons

DECIDE

High-performance materials such as IPS e.max® – the world's most used all-ceramic system⁽¹⁾

PRODUCE

Technologically high-quality equipment for the production of esthetic restorations

S E R V I C E +

Service+ The offer is complete with Service+. The service provision makes your entry into digital production easier and serves as a back-up partner for dental laboratories.*

* Service+ is available in the following countries: Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Holland, Hungary, Ireland, Italy, Liechtenstein, Luxembourg, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

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www.ivoclarvivadent.com/distributors

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¹ Based on sales figures