ivoclar

Product catalog chairside

Edition 2023

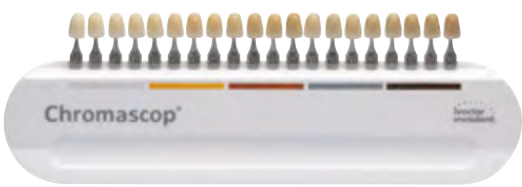Making People Smile

Contents

Shade selection

Chromascop®

The Chromascop® shade guide is used to select tooth shades according to the Chromascop shade system.

The 20 shades are divided into five clearly arranged shade groups.

Delivery forms

Chromascop shade guide	1x	529479

A–D shade guide with Bleach shades

The A–D shade guide is an instrument for the selection of tooth shades according to the A–D and Bleach shade system.

The 16 basic shades in the shade groups A, B, C and D, supplemented by the 4 modern Bleach shades BL 1 to BL 4, are practical to use and represent the ideal tool for dentists and dental technicians.

Delivery forms

A–D shade guide		
Complete (16 and 4 shades)	1x	628587
Bleach (4 shades)	1x	628605

IPS® Natural Die Material shade guide

Determination of the preparation shade in the fabrication of all-ceramic restorations

The IPS Natural Die Material shade guide is used to determine the shade of the preparation. The shade is selected on the basis of the most severely discoloured part of the prepared tooth.

The IPS Natural Die Material allows you to fabricate a customized model die similar to the prepared tooth structure of the patient, with which you can then accurately select the shade and brightness of all-ceramic restorations.

Indications:

Determination of the preparation shade after tooth preparation

Benefits:

✓ Easy and accurate reproduction of shades due to having determined the preparation shade
✓ Fabrication of a customized model die
✓ Autoclavable shade guide

Shades:

9 (ND 1, ND 2, ND 3, ND 4, ND 5, ND 6, ND 7, ND 8, ND 9)

Delivery forms

IPS Natural Die Material Kit		597078
IPS Natural Die Material Kit, 9 shades.	1 x 8 g each	
IPS Natural Die Material Separator	1 x 20 ml	
IPS Natural Die Material shade guide	1x	
Various accessories		
IPS® Natural Die Material Kit Promo		638177
IPS Natural Die Material Kit (597078)	1x	
IPS Natural Die Material shade guide	4x	
Refill IPS® Natural Die Material	1 x 8 g each	
ND 1		597080
ND 2		597081
ND 3		597082
ND 4		597083
ND 5		597084
ND 6		597085
ND 7		597086
ND 8		597087
ND 9		597088
IPS® Natural Die Material Separator	1 x 20 ml	597089
Die pins	10x	554028
IPS® Condenser	10x	554030
IPS® Natural Die Material shade guide (autoclavable)	1x	597090

Example of the preparation shade effect

| ND 1 | ND 2 | ND 3 | ND 4 | ND 5 | ND 6 | ND 7 | ND 8 | ND 9 |
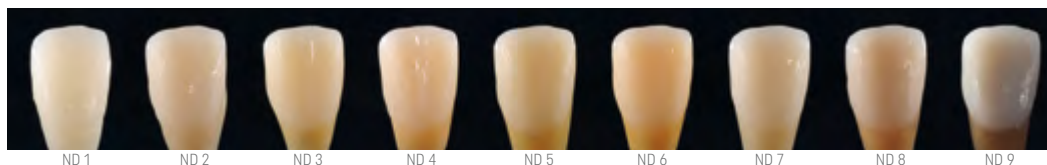
Restoration: Veneer (0.5 mm, IPS e.max® CAD HT B1)
Luting material: Variolink® Esthetic neutral
Preparation shade: IPS® Natural Die Material, ND 1 – ND 9

IPS e.max® Shade Navigation app

App for block, ingot and disc selection
The IPS e.max® Shade Navigation app is a helpful tool for selecting the appropriate block, ingot or disc.
It takes into consideration all the factors (tooth colour, indication, preparation shade, layer thickness and material type) that influence the overall shade of the restoration.

Indications:
For establishing the translucency and shade of:
– IPS e.max CAD
– IPS e.max ZirCAD
– IPS e.max Press

Benefits:
✔ Precise translucency and shade recommendations simplify the selection of blocks, ingots and discs.
✔ All the major influencing factors are taken into account (tooth shade, indication, preparation shade, layer thickness, material type).
✔ Direct, visual shade comparison with A–D shades

The app is available free of charge from the Apple App Store and can be downloaded on iOS smartphones and tablets.

Consulting apps

IvoSmile® for restorative dentistry, its follow-up product Ivoclar® Smile and IvoSmile® Orthodontics are consulting apps, specially designed for dental professionals, dentists and dental technicians.

These apps allow you to visualize the possibilities for esthetic dental makeovers on an Apple iPad*, directly with the patient, during the consultation.

The technology of these apps is based on augmented reality and superimposes live, in motion, the patient's own virtual mirror image with an initial impression of what they could look like if they had an esthetic dental makeover – an impressive and realistic experience.

Real-time visualization helps patients gain a clearer picture of the treatment goal. They will find it easier to decide whether or not to commit their time and money to the process of detailed cosmetic treatment planning.

Additionally, it is also possible to easily share the results of the real-time visualization with partner labs to provide additional information for the CAD modelling.
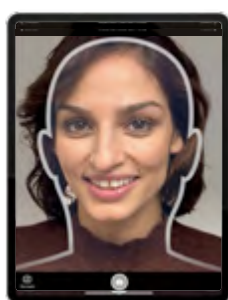
Fast portrait visualization with IvoSmile Orthodontics

The current dental situation is superimposed with a simulation of the new orthodontic improvements

Tooth shade and brightness settings for virtual teeth and gingiva

Stationary image or real-time 3D visualization of orthodontic simulation

IvoSmile app

Ivoclar Smile app

IvoSmile Orthodontics app

Delivery forms

IvoSmile® app	Available to download in the App Store (Apple)
Ivoclar Smile app	
IvoSmile Orthodontics app	
IvoSmile add-on	742700

Show your patients the possibilities for enhancing their smile in a few short minutes – on your iPad* or iPhone*, at no obligation.

IvoSmile®

Use the IvoSmile app in your consultations and give your patients an initial impression of what they could look like if they had an esthetic dental makeover, with no obligation and with no time-consuming, costly photographs or mock-ups involved.

They will be enthusiastic about seeing before and after views of themselves and having the possibility of looking into a "virtual mirror" to see what they would look like with the prospective esthetic restoration in place. Eventually, they may feel more inspired to consider a smile makeover for themselves. IvoSmile includes a bleaching option to simulate bleached natural teeth.

IvoSmile® add-on

The IvoSmile add-on enables users to transfer personalized treatment options (3D model of the overall esthetics) to laboratories to allow for a face-specific CAD design. The aim is to optimize the CAD designs.

Technical requirements

Apple iPad* or iPhone* with software version iOS 14 or higher

Ivoclar Smile

Ivoclar Smile has been further optimized from its previous version, IvoSmile. Apart from the high user-friendliness, Ivoclar Smile is characterized by an improved visualization quality of potential treatment results, an adjusted business model and useful new features.

Ivoclar Smile supports users in a customized, customer-oriented consultation at the beginning of a procedure. In comparison to IvoSmile, Ivoclar Smile offers a more realistic visualization of potential treatment results, which may lead to enhanced patient motivation and easier treatment decision-making. Ivoclar Smile enables users to explain complex cases more effectively. The Ivoclar Smile app is furthermore distinguished by the following features:

- ✓ Ivoclar Smile offers a free-of-charge version with reduced features which is available for everyone interested (basic version).
- ✓ In-app purchases are available to buy further features (professional version).
- ✓ Besides offering the possibility of sharing pictures of the before-and-after screen, short videos of the patients with visualized treatment options can also be shared.

Technical requirements

Apple iPad* or iPhone* with software version iOS 14 or higher

IvoSmile® Orthodontics

The IvoSmile Orthodontics app allows you to give your patients a preview of the potential esthetic treatment outcome during the orthodontic consultation appointment, without any obligation. In difference to the IvoSmile app, the aim of IvoSmile Orthodontics is a face-specific visualization of the final CAD design. An intraoral scan is produced with 3Shape TRIOS® (as of generation 3). The pre-installed TRIOS Treatment Simulator (TTS) calculates a virtual set-up of the teeth. This information is transferred directly to the IvoSmile Orthodontics app via the 3Shape Communicate Portal. Innovative augmented reality technology is used to superimpose the potential treatment outcome on the digital mirror image of the patient – in real time while the patient speaks, smiles, or moves their head.

The virtual picture or video provides a lifelike 3D preview of the potential improvements to the patient's smile. Therefore, it may help the patient make the decision to go ahead with the treatment. The impressive before-and-after images and the possibility of viewing oneself with the new restorations in a virtual mirror is an exciting experience for patients and will make them think seriously about a smile makeover.

Installation

Start with a full function free 30-day trial period.
For more information on IvoSmile and the download:

https://www.ivoclar.com/en_li/products/ivosmile-apps/ivosmile

Installation

For more information on Ivoclar Smile and the download:

www.ivoclar.com/ivoclar-smile

Installation

Start with a full function free 30-day trial period.
For more information on IvoSmile Orthodontics and the download:

https://www.ivoclar.com/en/dental-professional-/ivosmile-orthodontics-app

Dental care

Professional Care products

Plaque Test

Fluorescent disclosing liquid to reveal bacterial biofilm on the surfaces of natural and restored teeth or implants.

Benefits:
- ✓ Fluorescent under any curing light
- ✓ Easy handling
- ✓ No inconvenient staining of tongue and mucous membranes

Delivery forms

Refill	1 x 11 g	533299

Proxyt®

The prophy paste system with defined Relative Dentin Abrasion (RDA) values enables professional cleaning and polishing of teeth, restorations and implants according to the individual needs of patients. The pastes contain xylitol, which inhibits the growth of the bacteria that cause caries.

- **Containing fluoride**
  Proxyt coarse
  Proxyt medium
  Proxyt fine

- **Fluoride-free**
  Proxyt medium

Benefits:
- ✓ Customized, gentle cleaning and polishing
- ✓ Scratch-free cleaning of sensitive surfaces using the fine Proxyt without pumice
- ✓ Smooth consistency, splatter-free formula
- ✓ Fresh peppermint taste

Delivery forms

Proxyt® tubes	**1 x 80 g each**	
Proxyt fine		701470
Proxyt medium		701471
Proxyt medium fluoride-free		701472
Proxyt intensive		701473
Proxyt® Single Dose units	**200 x 1.8 g**	
Proxyt fine		703250
Proxyt medium		703252

Cervitec® F

The protective varnish with 1,400 ppm fluoride, chlorhexidine and CPC (cetylpyridinium chloride) for fluoride application and germ control in one working step.

Recommended application:
– Caries prevention in high-risk groups
– Fluoridation of dental enamel
– Remineralization of incipient lesions
– Protection of hypersensitive teeth
– Protection against bacterial activity

Benefits:
✔ Combined protection in high-risk cases
✔ Relatively high tolerance to moisture
✔ Mild taste
✔ Suitable for all age groups

Delivery forms*

Refill Tube (var. accessories)	1 x 7 g	665502
	2 x 7 g	665503
Refill Single Dose unit (var. accessories)	20 x 0.26 g	665504

* May vary from country to country

Cervitec® Plus

Chlorhexidine-containing protective varnish with 1% chlorhexidine plus 1% thymol for the professional bacterial control in patients with high caries risk. Cervitec® Plus also offers intensive protection in order to maintain the quality of restorations.

Areas of application:
– Protection of exposed root surfaces
– Treatment of hypersensitive teeth
– Reduction of bacterial activity on tooth surfaces

Benefits:
✔ Sealing of exposed dentinal tubules
✔ Targeted treatment of particularly susceptible areas
✔ Long-term availability of active ingredients
✔ Prevention of the side effects commonly associated with chlorhexidine
✔ Suitable for all age groups

Delivery forms*

Assortment Single Dose units (var. accessories)	20 x 0.25 g	602271
Assortment Tube (var. accessories)	1 x 7 g	602273
Refill Tube (var. accessories)	2 x 7 g	604661

* May vary from country to country

Cervitec® Liquid

Alcohol-free antimicrobial mouth rinse containing 0.1% chlorhexidine and xylitol plus essential oil.

Recommended application:
– As an intensive, temporary mouth rinse treatment
– To maintain the healthy condition of oral mucosa and gums as well as the dental supporting tissue
– Before and after implantological and periodontal interventions and dental and orthodontic surgery
– In the event of high caries risk
– In case of restricted ability to perform oral hygiene
– To prevent halitosis

Benefits:
✔ Reduction of bacterial growth
✔ High level of compliance due to mild taste
✔ Suitable for patients who need to avoid alcohol

Delivery forms*

Bottle	1 x 300 ml	707246

* May vary from country to country

Cervitec® Gel

Oral care gel containing 0.2% chlorhexidine, 900 ppm fluoride, provitamin D-panthenol and xylitol.

Recommended application:
– As a concomitant measure in the prevention of diseases of the gums, oral mucous membrane and the peri-implant tissue
– As a concomitant measure in the management of inflammatory diseases such as gingivitis, mucositis, denture stomatitis, periodontitis or peri-implantitis
– In the case of elevated germ counts

Benefits:
✔ Provitamin D-panthenol and xylitol moisturize and soothe the gums and mucous membrane
✔ Smooth consistency – easy dispersion
✔ Mild taste

Delivery forms*

Tube		1 x 50 g	683123
		1 x 20 g	683125
Denture cleaning set			681411
Tube		1 x 20 g	
Storage container		1x	
Var. accessories			

* May vary from country to country

Fluor Protector S

Protective fluoride varnish for the desensitization of teeth and protection against dental caries and erosion.

Areas of application:
– Treatment of hypersensitive cervicals
– Build-up of dental enamel resistance against acid
– Long-term caries prevention
– Treatment of sensitivity after tooth whitening

Benefits:
✔ 7,700 ppm fluoride in a homogeneous solution
✔ Immediate fluoridation of enamel
✔ High-yielding fluoride depot
✔ Mild taste
✔ Suitable for all age groups

Delivery forms*

Refill Tube (var. accessories)	1 x 7 g	639520
	3 x 7 g	602273
Refill Single Dose unit (var. accessories)	20 x 0.26 g	639522

* May vary from country to country

Fluor Protector

Protective varnish containing fluoride for desensitization and caries prophylaxis.

Areas of application:
– Sealing of open dentinal tubules
– Inhibition of demineralization
– Stimulation of remineralization
– Remineralization of incipient caries lesions

Benefits:
✔ 1,000 ppm fluoride in a homogeneous solution
✔ Highly esthetic
✔ Excellent adhesion
✔ Suitable for all age groups
✔ Comprehensive clinical documentation

Delivery forms*

Ampoules		
Refill (var. accessories)	50 x 1 ml	533293
VivAmpoule		
Assortment (var. accessories)	20 x 0.4 ml	550578
Refill (var. accessories)	40 x 0.4 ml	550579

* May vary from country to country

Fluor Protector Gel

The special gel with calcium, phosphate and fluoride for intensive but gentle dental care.

Recommended application:
– Special dental care to protect against caries, erosive wear and periodontal disease
– Sensitive teeth
– Exposed cervicals
– Acidic diets
– Dry mouth
– During orthodontic treatment
– After professional tooth cleaning
– During tooth whitening

Benefits:
✓ Calcium + 1,450 ppm fluoride + phosphate protect the teeth from acid attacks
✓ Xylitol inhibits the growth of cariogenic bacteria
✓ D-panthenol is soothing to the gums

Delivery forms*

Tube	1 x 20 g	628437
	1 x 50 g	628436

* May vary from country to country

Helioseal®, Helioseal® F Plus, Helioseal® Clear

Light-curing, resin-based fissure sealants for the preventive sealing of pits and fissures, using the enamel etching technique.

–   **Helioseal®**
    White-shaded sealant that permits easy control during application and at recalls
–   **Helioseal® F Plus**
    Efficient, white-shaded sealant with additional fluoride release
–   **Helioseal® Clear**
    Transparent sealant for excellent esthetic results and easy monitoring of fissures in case of doubt

Benefits:

✔   Precise application
✔   Well-proven in many years of clinical use
✔   Effective protection against caries

Delivery forms*

Helioseal®

Assortment		533297
Helioseal	1 x 8 g	
Email Preparator blue	1x	
Var. accessories		

Helioseal® F Plus

Assortment		686770
Helioseal F Plus	5 x 1.25 g	
Email Preparator blue	1x	
Var. accessories		
Syringe refills	**1 x 1.25 g**	**686769**
Refill Cavifils	**50 x 0.1 g**	**686771**

Helioseal® Clear

Syringe refills	**1 x 1.25 g**	**558521**

* May vary from country to country

VivaSens®

Desensitizing varnish for hypersensitive teeth

Areas of application:
– Hypersensitive cervicals
– Hypersensitivities due to bleaching procedures
– Desensitization after professional tooth cleaning, scaling and root planing
– Dentin protection under restorative materials

Benefits:
✔ Long-term pain relief
✔ Quick to take effect
✔ Quick to apply
✔ Gentle to gums
✔ Free Stand Single Dose unit – free-standing with grip surface

Delivery forms*

Assortment Single Dose unit (var. accessories)	22 x 0.1 g	561958
Assortment Bottle (var. accessories)	1 x 4 g	574359

* May vary from country to country

Tooth whitening / Tooth jewellery

VivaStyle® Paint On Plus

A varnish system with 6% hydrogen peroxide for in-office and at-home use. Direct application with a brush - no trays required.

Areas of application:
– Whitening of vital and non-vital teeth

Benefits:
✔ Varnish system: for targeted use on the spot
✔ D-panthenol: provitamin
✔ Whitening: after just seven days
✔ In the dental office: intensive treatment

Delivery forms*

Patient Kit	602873
Tube	1 x 20ml
Brush	14x
Dispensing dish	14x
Var. accessories	

* May vary from country to country

VivaStyle® 16%

A gel containing 16% carbamide peroxide (corresponds to 5.8% hydrogen peroxide) for at-home treatment. Ideal for the effective and gentle whitening of teeth. The product is applied with a customized tray.

Areas of application:
– Whitening of discoloured vital or non-vital teeth

Benefits:
✔ Smooth consistency
✔ Calibrated, resealable syringe
✔ For in-office and at-home use
✔ Quick and easy application
✔ Pleasant taste
✔ Clinically proven

Delivery forms*

Patient Kit	646032
VivStyle 16% syringes	4 x 3 ml
Tray Sheets	2x
Tray Case	1x
Var. accessories	

Touch-Up Kit	646033
VivStyle 16% syringes	2 x 3 ml

Tray Sheet Refill	12x	558805

* May vary from country to country

Skyce®

Crystal glass ornaments that are bonded to the labial surfaces of natural upper anterior teeth without previous preparation.

Skyce® is available in 2 sizes:

Approx. 1.9 mm and 2.4 mm

Shade:
Crystal

Delivery forms

Intro Pack		559320
Heliobond, Total Etch, Skyce Refill Crystal small, + Refill Crystal large, var. accessories		
Refill Crystal small, 1.9 mm	5x	559321
Refill Crystal large, 2.4 mm	5x	559322

Direct Restoratives
Moisture control

OptraGate®

The **latex-free** OptraGate® lip and cheek retractor allows the treatment field to be enlarged effectively and comfortably. OptraGate retracts the lips and cheeks gently and evenly over a large area, allowing a more effective relative isolation of the treatment field. OptraGate is comfortable to wear as it is three-dimensionally flexible. The improved padding of the lip and cheek retractor as well as the recesses to accommodate the upper and lower lip frenulum increase the patient comfort – even during longer treatment sessions.

OptraGate in the sizes Regular, Small and Junior is now available in two playful colours, blue and pink. The choice of colours is particularly interesting to children and adolescents and contributes to enhancing patient compliance.

Areas of application:
Suitable for use in diagnostic, preventive and therapeutic dental procedures (in particular restorative procedures, cavity preparation, professional tooth cleaning, diagnostic procedures, scaling & root planing, tooth whitening, impression taking).

Benefits:
- ✔ Efficient treatment and more effective relative isolation
- ✔ Enlarged treatment field and accessibility to the cavity
- ✔ Comfortable to wear for patients

Delivery forms

OptraGate® white

Assortment		577275
OptraGate Regular, white	40x	
OptraGate Small, white	40x	
Refill		
Regular	80x	590850
Small	80x	590851
Junior	80x	591451

OptraGate® blue and pink

Assortment Junior/blue + pink		669089
OptraGate Junior, blue	20x	
OptraGate Junior, pink	20x	
Assortment Small/blue + pink		669088
OptraGate Small, blue	20x	
OptraGate Small, pink	20x	

User video available at
www.ivoclar.com
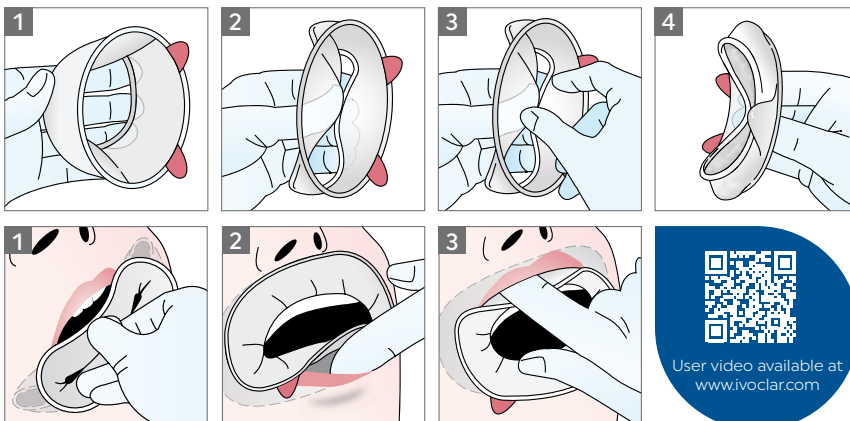
OptraDam® Plus

OptraDam® Plus is an anatomically shaped rubber dam for the absolute isolation of the working field. It offers the clinician increased visibility and accessibility. In addition, the device facilitates the evacuation of water spray. OptraDam Plus provides patient comfort and assists in keeping the patient's mouth open due to its three-dimensional flexibility.

Areas of application:
Suitable for use in therapeutic dental procedures for which an absolutely dry and isolated working field is required (e.g. for adhesive cementation, filling therapy and root canal treatments).

Benefits:
- ✔ Easy application thanks to the integrated frame and pre-printed arch template
- ✔ High patient comfort thanks to the flexible, three-dimensional design
- ✔ Simultaneous isolation of both arches thanks to the tension-free placement

Delivery forms

Assortment		627401
OptraDam Plus Regular	25x	
OptraDam Plus Small	25x	
Refill		
Regular	50x	627399
Small	50x	627400
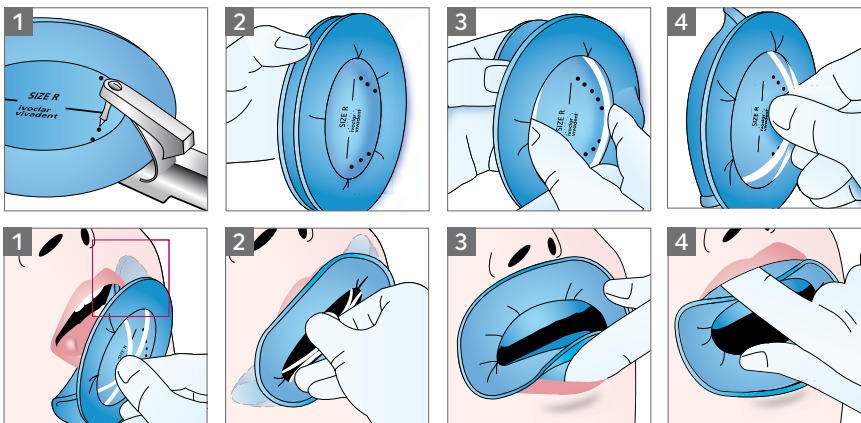
Adhesives / Etchants

Adhese® Universal

The universal adhesive
Adhese® Universal is a single-component, light-cured adhesive for direct and indirect bonding procedures. It features compatibility with all etching techniques: self-etch, selective-enamel-etch and total-etch. Adhese Universal is available in the unique VivaPen® delivery form for fast and convenient direct intra oral application with minimal waste to optimize cost effectiveness.

– Direct-placed light-curing composites and compomer restorations
– Direct-placed core build-ups with light-, self- and dual-curing composites
– Adhesive cementation of indirect restorations with light- and dual-curing luting composites
– Repairs of fractured composite and compomer restorations
– Desensitization of hypersensitive cervical areas
– Sealing of prepared tooth surfaces before temporary/permanent cementation of indirect restorations

Benefits:
Esthetics
✔ Universally suitable for direct and indirect bonding procedures and all etching protocols

Quality
✔ High bonding strength (>25 MPa) on wet and dry dentin
✔ Minimal risk of postoperative sensitivity due to the integrated desensitizing effect

Efficiency
✔ Fast and convenient direct intraoral application with the ergonomic VivaPen®
✔ Efficient VivaPen delivery form provide almost 4 times more applications per ml compared to conventional bottles*
✔ Curing time of only 3 seconds with the 3s PowerCure range of products: for restorations in the posterior region of the permanent dentition (Class I and II) when light-cured from the occlusal aspect
✔ Up to 187 single applications with the VivaPen

* Data available on request

Delivery forms

VivaPen®

Refill	1 x 2 ml	665156
Refill	3 x 2 ml	664505
Kit VivaPen	1 x 2 ml	754798
Starter Kit	1 x 0.5 ml	754799
Refill VivaPen® snap-on cannulas	100x	745762
Refill VivaPen® snap-on cannulas	300x	745763
Refill VivaPen® protective sleeves	300x	627492

Bottle

Refill	1 x 5 g	663720
Refill	2 x 5 g	663721
Refill Vivadent applicators (black)	50x	695128

Adhese® Universal DC

Adhese® Universal DC is a universal, dual-curing single-component dental adhesive for enamel and dentin that is compatible with all etching techniques.
Adhese Universal DC is suitable for direct restorative procedures and the adhesive cementation of indirect restorations.

Adhese Universal DC can be used without light-curing for:

– the adhesive cementation of indirect restorations and endodontic posts with Variolink® Esthetic DC in conjunction with all etching techniques.
– the adhesive cementation of indirect restorations and endodontic posts using light- and dual-curing luting composites in conjunction with the etch & rinse technique.

Esthetics
✔ Universally suitable for direct and indirect bonding procedures and all etching protocols

Quality
✔ High bonding strength (>25 MPa) on wet and dry dentin
✔ Integrated desensitizing effect
✔ Offers the same advantages as the clinically proven Adhese Universal, with the added benefit of high bonding strength in conjunction with induced self-curing

Efficiency
✔ Curing time of only 3 seconds with the 3s PowerCure range of products: for restorations in the posterior region of permanent dentition (Class I and II) when light-cured from the occlusal aspect. Curing of all types of restorations in only 5 seconds.

Delivery forms

Refill Single Dose unit Regular	25 x 0.1 g	687778WW
Refill Single Dose unit Small/Endo	25 x 0.1 g	687779WW

ExciTE® F

ExciTE® F is a light-curing, fluoride-releasing single-component adhesive that is suitable for the total-etch technique.

– Direct light- and dual-cure composite and compomer restorations
– Adhesive luting of indirect restorations involving light-curing

Benefits:

✔ Available in bottles and Single Dose units
✔ High bond strength values on enamel and dentin
✔ Acetone-free (alcohol-based solvent)
✔ Fluoride release
✔ Storage at room temperature

Delivery forms

Refill Bottle	1 x 5 g	630375
Refill Bottle	2 x 5 g	630376
Refill Applicators regular (light blue)	50x	631699
Refill Single Dose unit	50 x 0.1 g	630377

ExciTE® F DSC

ExciTE® F DSC is a dual-curing, fluoride-releasing enamel and dentin adhesive that is suitable for the total-etch technique.

– Adhesive cementation of root canal posts
– Adhesive cementation of indirect, metal-free translucent restorations with dual- or self-curing luting composites
– Direct restorations and core build-ups with dual and self-curing composites

Benefits:

✔ Patented initiator-coated applicator brush
✔ Time-saving: one step, one coat
✔ No light-curing necessary
✔ High bond strength values on enamel and dentin
✔ Single-dose delivery form with applicators in two different sizes: Regular and Small/Endo
✔ Storage at room temperature

Regular   Small/Endo

Delivery forms

Refill	50 x 0.1 g	
Regular		630378
Small/Endo		630380

Syntac®

Syntac® is the classic adhesive system for a chemically sound bond between the composite materials and the tooth structure.

– Direct composite and compomer restorations in the anterior and posterior region
– Adhesive cementation of indirect restorations made of composite and ceramic

Benefits:
✔ For direct and indirect restorations
✔ Clinically proven for many years
✔ Reduction of postoperative sensitivity
✔ Excellent instant bond between dentin/enamel and composite
✔ High bond strength
✔ Storage at room temperature

Delivery forms

Assortment		532891
Syntac Primer	1 x 3 g	
Syntac Adhesive	1 x 3 g	
Heliobond	1 x 6 g	
Var. accessories		
Refill Primer	1 x 3 g	532893
Refill Adhesive	1 x 3 g	532892

Heliobond

Heliobond is a light-curing single-component bonding agent to optimize enamel etching with all light-curing restorative materials.

– Adhesive for enamel bonding
– Together with Syntac also dentin bonding agent
– Cementation of tooth jewellery
– Transparent sealing of fissures and restorations
– As a bonding layer for the repair of composite, crown and bridge restorations

Benefits:
✔ For an optimum marginal seal between tooth and composite when applied in conjunction with the enamel etch technique.
✔ Storage at room temperature

Delivery forms

Refill	1 x 11 g	532906
Refill	1 x 6 g	532907

Total Etch

Total Etch is a 37% phosphoric acid gel.

– Partial etching technique for adhesive restorations
– Total-etch technique for adhesive restorations
– Fissure sealing
– Cementation of brackets and tooth jewellery
– Adhesive cementation

Benefits:

✔ The conventional etching gel with balanced handling properties
✔ Gel can be easily distinguished from the tooth structure
✔ Pre-bent metal tip for accurate application
✔ Jumbo delivery forms to keep adequate amounts of gel in stock

Delivery forms

Assortment Total Etch Jumbo		**558530**
Total Etch Jumbo Application tips, empty 2-ml syringe	1 x 30 g	
Refill	**2 x 2 g**	**550588**
Refill Etch application tips (blue)	**20x**	**550587**

Email Preparator blue

37% phosphoric acid in a liquid delivery form.

– Enamel etching and dentin conditioning for sealants, composite restorations, and for the adhesive cementation of restorations

Benefits:

✔ Micro-interlocking of Heliobond bonding agent with the etched enamel
✔ The material flows well into the fissures due to its low viscosity
✔ Reliable retention of the sealant, composite and the seated restoration

Delivery forms

Refill	**1 x 6 g**	**533034**

IPS® Ceramic etching gel

The IPS® Ceramic etching gel is used for the creation of retentive bonding surfaces on all-ceramic restorations to prepare for cementation. It enhances the bonding effect between the composite cement and the ceramic bonding surface.

Delivery forms

IPS® Ceramic Etching Gel Kit		**531550**
IPS Ceramic etching gel Neutralization powder Measuring spoon	1 x 5 ml 1 x 30 g 1x	
Refill		
IPS Ceramic etching gel	**1 x 5 ml**	**531548**
Neutralization powder	**1 x 30 g**	**531549**

Composites

Tetric® Line

One solution for all cavities

The Tetric® line of products consists of four well-coordinated composite resins for your direct restorative needs.

Tetric® Prime is a sculptable universal composite and **Tetric EvoFlow®** is a flowable universal composite for anterior and posterior restorations.

Tetric® PowerFill is a sculptable composite and **Tetric® PowerFlow** is a flowable composite for 4-mm bulk placement in the posterior region. It offers short curing times from 3 seconds.

Ivoclar offers a kit containing 4 composites featuring 6 different types of materials that are intuitive to use. With this small range of materials, all types of cavities can be filled.

Each kit comprises:

- ✔ Tetric Prime – sculptable, for conventional layering techniques
- ✔ Tetric EvoFlow – flowable, for conventional layering techniques
- ✔ Tetric PowerFill – sculptable, application in increments of up to 4 mm
- ✔ Tetric PowerFlow – flowable, application in increments of up to 4 mm
- ✔ Adhese® Universal VivaPen – the universal adhesive system

Delivery forms

Syringes

Tetric Line Kit syringe	**711963**
Tetric Prime syringe, shades: A2, A3, A2 Dentin	1 x 3 g each
Tetric PowerFill syringe, shade: ^{IV}A	1 x 3 g
Tetric EvoFlow Luerlock syringe, shade: A3	1 x 2 g
Tetric PowerFlow Luerlock syringe, shade: ^{IV}A	1 x 2 g
Adhese Universal VivaPen	1 x 2 ml
Var. accessories	

Mixed

Tetric Line Kit mixed	**711964**
Tetric Prime Cavifil, shades: A2, A3	10 x 0.25 g each
Tetric Prime Cavifil, shade: A2 Dentin	5 x 0.25 g each
Tetric PowerFill Cavifil, shade: ^{IV}A	10 x 0.2 g
Tetric EvoFlow Luerlock syringe, shade: A3	1 x 2 g
Tetric PowerFlow Luerlock syringe, shade: ^{IV}A	1 x 2 g
Adhese Universal VivaPen	1 x 2 ml
Var. accessories	

Tetric® Prime

Tetric® Prime is a sculptable universal composite for anterior and posterior restorations.

Types of restorations
- Restoration of deciduous teeth
- Restorations in the posterior region (Classes I and II)
- Anterior restorations (Classes III, IV)
- Class V restorations
- Veneering of discoloured anterior teeth
- Splinting of mobile teeth
- Repair of composite/ceramic veneers

Benefits:
Esthetics
- Chameleon effect for a natural shade blend

Quality
- Proven clinical performance with over 730 million restorations placed worldwide[1]
- Excellent handling in daily use[2]

Efficiency
- 1 kit for all cavities

Shades:
- Dentin shades: A2, A3.5
- Enamel shades: A1, A2, A3, A3.5, A4, B1, B2, C2
- Highly translucent incisal shade: T
- Bleach shades: Bleach L

[1] Based on sales figures.
[2] Tetric Prime offers excellent handling properties.

Delivery forms

Syringes		
Refill (7 shades)	3 x 3 g each	See p. 34
Refill (12 shades)	1 x 3 g each	See p. 34
Jumbo Refill	10 x 3 g	
A2		706863
A3		706864
Cavifils		
Refill (12 shades)	20 x 0.25 g each	See p. 34
Jumbo Refill	150 x 0.25 g	
A2		706865
A3		706866
Shade guide	1x	709578

Starting situation:
Defective mesio-palatal composite restoration in tooth 12

Final result

Dr Carola Pentelescu, Ivoclar Vivadent AG, Liechtenstein

Tetric EvoFlow®

Tetric EvoFlow® is the flowable universal composite for restorations in the anterior and posterior region.

The material can be used as a liner in Class I and II cavities and as a filling material for small and Class V cavities. It is effectively combined with regular-viscosity composite resins, e.g. Tetric Prime, Tetric PowerFill or IPS Empress® Direct.

Types of restorations:
- As initial layer under Class I to Class V restorations
- Class V restorations
- Small restorations of all types
- Extended fissure sealing
- Blocking out of undercuts
- Repair of composite resin restorations

Benefits:
Esthetics
✔ Pronounced chameleon effect for a natural shade blend

Quality
✔ Excellent handling properties to suit every situation

Efficiency
✔ 1 kit for all cavities

Shades:
- Dentin shades: A2, A3.5, B2
- Enamel shades: A1, A2, A3, A3.5, A4, B1, B3
- Highly translucent incisal shade: T
- Bleach shades: Bleach XL, Bleach L, Bleach M

Delivery forms

Syringes		
Refill (14 shades)	1 x 2 g each	See p. 34
Cavifils		
Refill (14 shades)	20 x 0.2 g each	See p. 34

Shade guide	1x	595952
Application tips ø 0.9 mm (black)	20x	634849
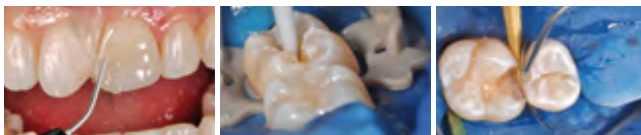
Dr Eduardo Mahn, Santiago, Chile

Tetric® PowerFill

Tetric® PowerFill is a sculptable, light-curing, radiopaque 4-mm composite for direct restorative treatments in posterior teeth. It offers short curing times from 3 seconds.

Types of restorations:
– Restorations in the posterior region (Classes I and II, including the replacement of individual cusps)
– Reconstructive build-ups

Benefits:
Esthetics
✔ True-to-nature esthetics for posterior restorations
✔ Ivocerin® and the Aessencio® technology allow you to achieve the same high esthetics as with conventional composites

Quality
✔ Increased process reliability thanks to fewer layers

Efficiency
✔ Time savings of up to 51% in the posterior region[1]

Shades:
Three enamel-like universal shades

– IVA Universal A shade
– IVB Universal B shade
– IVW White for light-coloured permanent teeth

[1] A. Lebedenko, Comparative fillings: Conventional layering technique versus 3sCure two-layer technique, *Test Report*, Ivoclar Vivadent, 2018.

Delivery forms

Syringes

Refill (3 shades)	1 x 3 g each	See p. 34
	3 x 3 g each	See p. 34

Cavifils

Refill (3 shades)	20 x 0.2 g each	See p. 34

Shade guide	1x	668082

Tetric® PowerFlow

Tetric® PowerFlow is a flowable, light-curing, radiopaque 4-mm composite for direct restorative treatments in posterior teeth. It offers short curing times from 3 seconds.

Types of restorations:
– As initial layer/first increment in Class I and II composite restorations in permanent posterior teeth
– Restoration of deciduous teeth

Benefits:
Esthetics
✔ True-to-nature esthetics for posterior restorations
✔ Ivocerin® and the Aessencio® technology allow you to achieve the same high esthetics as with conventional composites

Quality
✔ Increased process reliability thanks to fewer layers

Efficiency
✔ Time savings of up to 51% in the posterior region[1]

Shades:
Three dentin-like universal shades

– IVA: Universal A shade
– IVB: Universal B shade
– IVW: White shade for deciduous teeth or light-coloured permanent teeth

[1] A. Lebedenko, Comparative fillings: Conventional layering technique versus 3sCure two-layer technique, *Test Report*, Ivoclar Vivadent, 2018.

Delivery forms

Syringes		
Refill (3 shades)	1 x 2 g each	See p. 34
Cavifils		
Refill (3 shades)	20 x 0.2 g each	See p. 34
Shade guide	1x	668082
Application tips ø 1.2 mm (black)	20x	669838

Tetric EvoCeram®

Tetric EvoCeram® is a sculptable universal composite for restorations in the anterior and posterior region.

Types of restorations:
- Restoration of deciduous teeth
- Restorations in the posterior region (Classes I and II)
- Anterior restorations (Classes III, IV)
- Class V restorations
- Veneering of discoloured anterior teeth
- Splinting of mobile teeth
- Extended fissure sealing in molars and premolars
- Repair of composite/ceramic veneers
- Build-ups for transparent, removable Invisalign® orthodontic aligners

Benefits:
Esthetics
✔ Chameleon effect for a natural shade blend

Quality
✔ Proven clinical performance with over 730 million restorations placed worldwide[1] and a clinical survival rate of 95%[2]

Efficiency
✔ One solution for all cavities

Shades:
- Dentin shades: A2, A3.5, A4, B2
- Enamel shades: A1, A2, A3, A3.5, A4, B1, B2, B3, C1, C2, C3, D2, D3
- Highly translucent incisal shade: T
- Bleach shades: Bleach XL, Bleach L, Bleach M, Bleach I

[1] Based on sales figures
[2] A total of 890 fillings were monitored worldwide in seven clinical studies with observation periods ranging from 5 to 10 years. The overall survival rate calculated for Tetric EvoCeram® was 95.1%.

Delivery forms

Syringes

Refill (22 shades)	3 x 3 g each	See p. 35
Refill (22 shades)	1 x 3 g each	See p. 35
Jumbo Refill	10 x 3 g	
A2		642042
A3		642043

Cavifils

Refill (22 shades)	20 x 0.2 g each	See p. 35
Jumbo Refill	150 x 0.2 g	
A2		642040
A3		642041
Shade guide	1x	590292

Starting situation in 2004   Final picture in 2004   Recall in 2014

Dr Arnd Peschke, Ivoclar Vivadent AG, Schaan, Liechtenstein

Starting situation in 2005   Final picture in 2005   Recall in 2014

Prof. Dr Jürgen Manhart, Germany

IPS Empress® Direct

IPS Empress® Direct is a highly esthetic composite for filling cavities in anterior and posterior teeth. It is available in five different translucency levels and in 32 different tooth shades.. Therefore, different types of anatomical features can be faithfully reproduced.

Types of restorations:
– Anterior restorations (Classes III, IV)
– Posterior restorations (Class I and II)
– Class V restorations
– Correction of tooth position and tooth shape (e.g. diastema closure, closure of interdental triangles, lengthening of incisal edges);
– Direct veneers

Benefits:
Esthetics
✔ Lifelike shades for natural-looking restorations
✔ Easy application of shade nuances with Trans Opal
Quality
✔ Long-lasting esthetic results
✔ Convenient handling for sophisticated requirements
Efficiency
✔ Intuitive layering technique to achieve highly esthetic results in a few easy steps

Shades
– Dentin shades (Dentin):
  A1, A2, A3, A3.5, A4, IVA5, IVA6, B1, B2, C3, D2, Bleach L, Bleach XL
– Enamel shades (Enamel):
  A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, D2, D3, Bleach L, Bleach XL
– Translucent: Trans 20, Trans 30, Trans Opal

Delivery forms

Syringes

Syringe Kit		686071
Dentin (A2, A3)	1 x 3 g each	
Enamel (A1, A2, A3)	1 x 3 g each	
Trans 30	1 x 3 g	
Effect Trans Opal	1 x 1.8 g	
Opaque	1 x 1.8 g	
Autoclavable shade guide (Dentin, Enamel/Translucent)	1 x each	
Var. accessories		

Syringe Kit		686072
Dentin (A2, A3)	1 x 3 g each	
Enamel (A1, A2, A3)	1 x 3 g each	
Trans 30	1 x 3 g	
Effect Trans Opal	1 x 1.8 g	
Opaque	1 x 1.8 g	
OptraSculpt Pad Instrument	1x	
OptraSculpt Pad Refill (4 mm)	1x	
Autoclavable shade guide (Dentin, Enamel/Translucent)	1 x each	
Var. accessories		

Refill (32 shades)	1 x 3 g	See p. 35

Cavifils

Refill (32 shades)	10 x 0.2 g	See p. 35

Shade guide IPS Empress Direct Dentin	1x	627214
Shade guide IPS Empress Direct Enamel/Translucent	1x	627215

Before   After

Dr Arnd Peschke, Ivoclar Vivadent AG, Schaan, Liechtenstein

IPS Empress® Direct Effect

The flowable characterization material IPS Empress Direct Effect enables creative users to impart each restoration with an individual touch.

Types of restorations:
- Creating lifelike esthetic effects in the incisal area
- Anterior restorations (Classes III, IV)
- Small restorations of all types
- Repair of composite/ceramic veneers

Benefits:
- ✔ Ideal addition to the IPS Empress Direct range of materials for the creation of special effects in the anterior region
- ✔ Unique Trans Opal shade for a lifelike esthetic opalescence
- ✔ Lifelike translucency for the optimum reproduction of the incisal area
- ✔ Ideal consistency for contouring with the brush

Shades:
Trans Opal

Delivery forms

Syringe refills		1 x 1.8 g each	See p. 35
Application tips ø 0.9 mm (black)		20x	634849

IPS Empress® Direct Color

For the lifelike characterizations, such as the imitation of enamel cracks.

Types of restorations:
- Individualized characterization of direct and lab-fabricated composite restorations
- For the masking of tooth discolourations
- For the characterization of chairside CAD/CAM veneers

Benefits:
- ✔ Lifelike characterization of demanding composite restorations and CAD/CAM-fabricated restorations
- ✔ User-friendly direct application; no dilution required
- ✔ High masking capability even when applied in thin layers
- ✔ 0.4-mm tip for precise application
- ✔ Ideally complements the IPS Empress® Direct and IPS Empress CAD range of materials

Shades:
White, honey, ochre, brown, blue, grey

Delivery forms

Refill	Possible use	1 x 1 g	
white	• Imitation of white spots • Simulation of halo effects • Accentuation of cusps and ridges		637899
honey	• Accentuation of the dentin core • Accentuation of fissures		637900
ochre	• Imitation of individual enamel characteristics		637903
blue	• Simulation of translucent enamel areas • Imitation of opalescent areas		637901
grey			637905
brown	• Imitation of discoloured fissures, pits and enamel cracks		637904
Application tips ø 0.4 mm (black)		20x	634847

IPS Empress® Direct Opaque

IPS Empress® Direct Opaque is a light-curing opaquer suitable for masking exposed metal surfaces and discolourations.

Types of restorations:
Masking of:
- exposed metal surfaces when repairing defective ceramic and composite veneers intraorally
- discoloured tooth structure

Benefits:
- ✔ High masking capability even when applied in thin layers
- ✔ Universal opaque shade renders shade adjustments unnecessary

Shade:
Opaque

Delivery forms

Refill syringe (opaque)	1 x 1.8 g	637897
Application tips ø 0.9 mm (black)	20x	634849

	4-mm composite					Conventional composites						
Shades	Tetric® PowerFlow Syringes 1 x 2 g (3 shades)	Tetric® PowerFlow Cavifils 20 x 0.2 g (3 shades)	Tetric® PowerFill Syringes 1 x 3 g (3 shades)	Tetric® PowerFill syringes 3 x 3 g (3 shades)	Tetric® PowerFill Cavifils 20 x 0.2 g (3 shades)	Tetric EvoFlow® Syringes 1 x 2 g (14 shades)	Tetric EvoFlow® Cavifils 20 x 0.2 g (14 shades)	Tetric® Prime Syringes 1 x 3 g (3 shades)	Tetric® Prime Syringes 3 x 3 g (3 shades)	Tetric® Prime Cavifils 20 x 0.25 g (3 shades)	Tetric EvoCeram® Syringes 1 x 3 g (22 shades)	Tetric EvoCeram® Syringes 3 x 3 g (22 shades)
Enamel												
105												
A1						595953	595987	706607	706840	706563	590312	590293
A2						595954	595988	706608	706841	706564	590313	590294
A3						595955	595989	706609	706842	706585	590314	590295
A3.5						595956	595990	706610	706843	706586	590315	590296
A4						595978	595992	706611	706844	706587	590316	590297
B1						641358	641348	706612		706588	637547	637734
B2								706613	706855	706589	590317	590298
B3						595957	595991				590318	590299
B4												
C1											590319	590300
C2									706615	706591	590320	590301
C3											590321	590302
C4												
D2											637548	637735
D3											590322	590303
IVA			668083	668117	668107							
IVB			668084		668076							
IVW			668115		668077							
Bleach XL												
Bleach L						595982	595996	706622		706598	590328	590309
Bleach I											590329	590310
Bleach M						595984	596008				590330	590311
Dentin												
A1 Dentin												
A2 Dentin						641360	641349	706618		706594	637549	637736
A3 Dentin												
A3.5 Dentin						595980	595994	706619	706860	706595	590323	590304
A4 Dentin											590324	590305
IVA5 Dentin												
IVA6 Dentin												
B1 Dentin												
B2 Dentin						641361	641350				590325	590306
C3 Dentin												
C4 Dentin												
D2 Dentin												
D4 Dentin												
Basic White												
IVA	692409	692413										
IVB	692410	692414										
IVW	692411	692415										
Bleach L Dentin												
Bleach XL Dentin						595981	595995				590327	590308
Transparent												
110 T												
420 T												
T						595979	595993	706621		706597	590326	590307
Trans 20												
Trans 30												
Trans Opal												

Tetric EvoCeram® Cavifils 20 x 0.25 g (22 shades)	IPS Empress® Direct Syringes 1 x 3 g (32 shades)	IPS Empress® Direct Cavifils 10 x 0.2 g (32 shades)	IPS Empress® Direct Effect Syringes 1 x 1.8 g (1 shade)
590331	627232	627270	
590332	627233	627271	
590333	627234	627272	
590334	627235	627273	
590335	627236	627274	
637354	627237	627275	
590336	627238	627276	
590337	627239	627277	
	627240	627278	
590338	627241	627279	
590339	627242	627280	
590340	627243	627281	
637355	627244	627282	
590341	627245	627283	
	627247	627285	
590347	627246	627284	
590348			
590349			
	627220	627258	
637356	627221	627259	
	627222	627260	
590342	627624	627623	
590343	627223	627261	
	627224	627262	
	627225	627263	
	627226	627264	
590344	627227	627265	
	627228	627266	
	627229	627267	
	627230	627268	
590346	627231	627269	
590345			
	627248	627286	
	627249	627287	
	627250	627288	635342

Alkasites

Cention® Forte & Cention® Primer

Cention Forte is a self-curing, radiopaque filling material with light-curing option for the direct restorative treatment of anterior and posterior teeth. Cention Forte belongs to the materials group of alkasites.

This filling material is considered to be the better alternative to amalgam than glass ionomer cement because of its reduced application protocol, high flexural strength and lifelike esthetics.

The alkaline filler of the material releases bioactive calcium ions, fluoride ions and hydroxide ions, which prevents demineralization and supports remineralization.

The ion release is much higher at an acidic pH value than it is at a neutral pH value. Acid attacks are thus neutralized much more quickly.

Cention Primer is a self-etching, self-curing primer for dental hard tissue, that has been especially designed for Cention Forte.

Delivery forms

Cention Forte Kit		740829
Cention Forte Capsule	50 x 0.3 g	
Cention Primer	1 x 6 g	
Cention Forte Start		740831
Cention Forte Capsule	20 x 0.3 g	
Cention Primer	1 x 3 g	
Refill Cention Forte Jumbo Capsules	100 x 0.3 g	740830
Refill Cention Forte Capsules	50 x 0.3 g	740829
Refill Cention Primer	1 x 6 g	740833
Refill Capsule Applicator	1x	694767

Base/liner

Vivaglass® Liner

Light-curing glass ionomer cement suitable for cavity lining.

Benefits:
- ✔ Continuous fluoride release
- ✔ Good dentin adhesion
- ✔ Good radiopacity
- ✔ Easy handling due to light-curing

Delivery forms

Intro Pack		**536452**
Powder	1 x 10 g	
Liquid	1 x 8 g	
Var. accessories		
Refill Powder	**1 x 10 g**	**535840**
Refill Liquid	**1 x 8 g**	**535839**

Clinical accessories

OptraSculpt® Next Generation

OptraSculpt® Next Generation is a contouring instrument for the efficient contouring of composite restorations in the posterior region.

The two-component attachments produced in a special procedure facilitate the modellation of smooth and esthetic high-quality filling surfaces. The attachment shapes are specifically designed for the posterior region and allow for a natural-looking recreation of anatomical tooth structures such as cusp slopes, fissures and proximal margins.

Areas of application:
Suitable for adapting, shaping and contouring of uncured sculptable composite materials. Also suitable for lab composites.

Benefits:
- ✔ Three attachment shapes for the professional creation of demanding anatomical structures
- ✔ Optimum working angle for the posterior region
- ✔ Hygienic dispenser box for easy access to attachments

Delivery forms

OptraSculpt® & OptraSculpt® Pad System Kit		683066
Instrument, single-ended	1x	
Instrument, double-ended	1x	
Pads 4 mm	60x	
Ball	20x	
Chisel	20x	
Point	20x	

OptraSculpt® Starter Kit		683067
Instrument, double-ended	1x	
Ball	20x	
Chisel	20x	
Point	20x	

Refill OptraSculpt® Ball	60x	683068
Refill OptraSculpt® Chisel	60x	683069
Refill OptraSculpt® Point	60x	683100

OptraSculpt® Pad

OptraSculpt® Pad is a contouring instrument with special foam pad attachments designed for the efficient, non-stick contouring and shaping of composites. The highly flexible synthetic foam pads optimally adjust to the anatomical contours and allow smooth modelling, without leaving any unwanted marks on the composite restoration.

Areas of application:
Suitable for adapting, shaping and contouring of uncured sculptable composite materials. Also suitable for lab composites.

Benefits:
- ✔ Anti-stick effect: reduced adhesion of the composite to the instrument
- ✔ Professional esthetics due to homogeneous surface design and reference scales on the instrument handle
- ✔ Reduced effort required for finishing and polishing

Reference scale on the instrument handle:
The continuous vertical lines show ideal average tooth widths, the dotted vertical lines average esthetic axial inclinations of the maxillary anterior teeth.

Delivery forms

Assortment		639791
OptraSculpt Pad Instrument	1x	
OptraSculpt Pad Refill/4 mm	60x	
OptraSculpt Pad Refill/6 mm	60x	

OptraSculpt® Pad Refill/4 mm	60x	639792
OptraSculpt® Pad Refill/6 mm	60x	639793
Refill OptraSculpt® Pad Instrument	1x	646004

OptraStick®

OptraStick® is a placement instrument that features a flexible adhesive tip. The tip allows small objects, inlays, onlays and veneers made of various materials (e.g. IPS Empress®, IPS e.max®) to be picked up, held, carried and placed precisely, quickly and easily.

Benefits:
- ✔ Easy pick-up
- ✔ Strong adherence
- ✔ Secure positioning

Delivery forms

Refill	48 pcs	699972AN

Cavifil® Injector

Instrument for the application of dental restorative materials supplied in Cavifils from Ivoclar.

Delivery forms

Refill Cavifil® Injector "New Design"	1x	627882

VivaPad

Light-protected mixing plate for dual- and light-curing composites and adhesives.

Delivery forms

VivaPad	1x	533648

Polyart Mixing Pad

Universally usable mixing pad with 60 pages to tear off.

Sizes:
50 x 70 mm

Delivery forms

Mixing pad 50 x 70 mm	1x	591204

Brush holders

This double-ended brush holder is used to hold soft and hard brushes, as well as Vivabrushes.

Delivery forms

Brush holders	1x	
Violet		538895
Red		538894
Dark orange		538893
Orange		538892
White		573676

Brushes, hard

Disposable brushes for the application of liquid dental materials.

Delivery forms

Refill	50x	533664

Brushes, soft

Disposable brushes for the application of low-viscosity dental materials.

Delivery forms

Refill	50x	533670

Vivabrush

Disposable application aid for varnishes, gels, and sealants (to mount on brush holder).

Delivery forms

Refill	50x	550430

VivaBrush G

The disposable applicator allows the application of fine, smooth layers of varnish, e.g. Fluor Protector or Fluor Protector S, either selectively or over larger areas.

Delivery forms

Refill	50x	631170

Vivadent® Applicator

Disposable brushes for the application of liquid and low-viscosity dental materials.

Available in four sizes/shapes:

– Regular (blue) for normal preparations
– Small (violet) for micro-cavities
– White
– Black

Delivery forms

Applicator	50x	
Regular		631699
Small		562168
White		603949
Black		695128

Application tips

Application tips for syringes and bottles

Delivery forms

Application tips Redesign ø 0.4 mm	20x	634847
for IPS Empress Direct Color, Helioseal Clear		
Application tips Redesign ø 0.6 mm	20 x	634819
for Helioseal F, Total Etch		
Application tips Redesign ø 0.9 mm	20x	634849
for Tetric EvoFlow, IPS Empress Direct Effect, IPS Empress Direct Opaque		
Application tips Redesign ø 1.2 mm	20x	669838
for Tetric PowerFlow		
Application tips ø 0.4 mm	20x	556745
for Helioseal Clear		
Application tips ø 0.6 mm	20x	579862
for Helioseal F		
VivaPen Snap-on cannulas		
for Adhese Universal	100x	745762
	300x	745763
Application tips	20x	533669
for Heliobond-/Helioseal bottles		
Application tips	20x	533666
for Email Preparator blue		
Application tips ø 0.9 mm (blue)	20x	550587
for Total Etch		
Application tips	20x	559224
for Variolink II		

Silamat® S6

Form and function – perfectly mixed

Areas of application:
Modern universal mixer for amalgam, glass ionomer cements and other predosed dental materials in capsules and injection capsules.

Benefits:
✔ Attractive design for the modern dental practice
✔ Thanks to its rounded shape and the removable cover, the unit can be cleaned easily
✔ Tried-and-tested Silamat technology
✔ Above-average speed of 4,500 rpm
✔ Special figure-of-eight pattern and patented mixing fork
✔ Compatible with all popular capsules and injection capsules in various shapes and sizes
✔ Three-year warranty
✔ Voltage 100 – 240 VAC

Delivery forms

Silamat® S6	100 – 240 VAC	602286

Light-polymerization units

Bluephase® PowerCure

The high-performance Bluephase® PowerCure features a light intensity of up to 3,000 mW/cm^2 and enables extremely short exposure times starting from 3 seconds.

Area of application:
Curing light for the polymerization of all popular light-curing dental materials in the wavelength range of 385 – 515 nm.

Benefits:
- Light intensity of up to 3,000 mW/cm^2 in the 3s Cure program for extremely short exposure times starting from 3 seconds
- Very short curing times from 3 seconds help save time and heighten efficiency (in conjunction with Adhese Universal, Tetric PowerFill and Tetric PowerFlow)
- Integrated intelligent Polyvision light-curing assistant
- Polywave LED with broad wavelength range of 385 – 515 nm, suitable for all popular dental materials
- Four programs:
  - 3s Cure: 3,000 mW/cm^2 – 3 seconds
  - Turbo: 2,000 mW/cm^2 – 5 seconds
  - High: 1,200 mW/cm^2 – 10, 15, 20 seconds
  - PreCure: 2 seconds
- PreCure program for the clean-up of excess cement
- Click&Cure corded operation for battery-independent use; includes radiometer
- Cordless design for ultimate mobility
- 10>9-mm light guide
- Short light guide: all tooth surfaces can be easily reached without the patient having to open their mouth extra wide
- Inductive charging prevents soiling of the charging contacts of the battery
- Battery status is visible from a far distance due to the clear charging indicator on the charging station
- High-performance lithium ion battery for a total of 20 minutes of operation in the HIGH mode
- Uniform polymerization due to homogeneous distribution of light throughout the entire light emission window of the light guide
- Backlit display
- Radiometer integrated in the charging station (optional)
- 3-year warranty (1-year warranty for battery)
- Available in grey

Delivery forms

Bluephase® PowerCure 100 – 240 V (incl. radiometer)	**1x**	**667092**
Bluephase® PowerCure System Kit		
Bluephase PowerCure 100 – 240 V	1x	
Tetric PowerFill, shade ^{IV}A,	1 x 3 g or	
syringe or Cavifil	20 x 0.2 g	
Tetric PowerFlow, shade ^{IV}A,	1 x 2 g	
Adhese Universal VivaPen	1 x 2 ml	
Var. accessories		
Bluephase PowerCure System Kit syringe		668253
Bluephase PowerCure System Kit mixed		691918
Bluephase® PowerCure handpiece		**667093**

Bluephase® G4

Bluephase® G4 is the first Bluephase LED curing light featuring the personal and patented assistance system Polyvision.

Area of application:

The LED curing light of the 4th LED generation with a light intensity of 1,200 mW/cm^2 is used for the polymerization of all light-curing dental materials curing in the wavelength range of 385 – 515 nm.

Benefits:

- ✓ Integrated intelligent Polyvision light-curing assistant
- ✓ Broad wavelength range of 385 – 515 nm, suitable for all popular dental materials
- ✓ High light intensity of 1,200 mW/cm^2 for short exposure times starting from 10 seconds
- ✓ PreCure program for the removal of excess cement
- ✓ Click&Cure corded operation for battery-independent use
- ✓ Cordless design for ultimate mobility
- ✓ 10-mm light guide for time-saving one-time exposure
- ✓ Short light guide: all tooth surfaces can be easily reached without the patient having to open their mouth extra wide
- ✓ Inductive charging prevents soiling of the charging contacts of the battery
- ✓ Charging base with charging indicator permits recognition of the charging status from large distances
- ✓ High-performance lithium ion battery for a total of 20 minutes of operation in the HIGH mode
- ✓ Uniform polymerization due to homogeneous distribution of light throughout the entire light emission window of the light guide
- ✓ Backlit display
- ✓ Radiometer integrated in the charging station (optional)
- ✓ 3-year warranty (1-year warranty for battery)
- ✓ Available in grey, green, pink, blue

Delivery forms

Bluephase® G4 100 – 240 V (grey)	1x	691258
Bluephase® G4 100 – 240 V (grey, incl. radiometer)	1x	691257
Bluephase® G4 100 – 240 V (blue)	1x	691254
Bluephase® G4 100 – 240 V (blue, incl. radiometer)	1x	691253
Bluephase® G4 100 – 240 V (green)	1x	691264
Bluephase® G4 100 – 240 V (green, incl. radiometer)	1x	691260
Bluephase® G4 100 – 240 V (pink)	1x	691268
Bluephase® G4 100 – 240 V (pink, incl. radiometer)	1x	691267

Bluephase® Meter II

The dental radiometer

Bluephase® Meter II is a precise dental radiometer for the quick and easy verification of the light intensity of all types of curing lights.

Area of application:

Enables exact and unrestricted verification of the light intensity in [mW/cm^2] and the light output in [mW] of all curing lights in the wavelength range of 380 – 550 nm with an accuracy tolerance of ±10% as compared to the measurement with an integrating sphere.

Benefits:

✔ Innovative measuring principle offering an unprecedented measuring accuracy for dental radiometers
✔ Universally applicable for any curing light (halogen, plasma, LED devices, etc.)
✔ Integrated template to determine the diameter of circular light guides between 6–12 mm
✔ Additional program to determine the light output in milliwatt [mW] analogue to an integrating sphere
✔ Digital display
✔ Ergonomic and modern design
✔ 3-year warranty

Delivery forms

Bluephase® Meter II	1x	667124

Delivery forms and accessories

Delivery forms and accessories		Bluephase® G4	Bluephase® PowerCure
Curing light 100 – 240 V, complete		691258	–
Curing light 100 – 240 V incl. radiometer, complete		691257	667092 grey
Bluephase Meter II	667124	✔	✔
10-mm light guide, black	667497	■	–
10-mm light guide, black	691265	–	■
10 > 9-mm light guide, black	668873	–	■
6 > 2 mm (Pin-Point), black	691264	✔	✔
Protective covers	691666	■	■
Anti-glare cone	551756	■	■
Anti-glare shield	691255	✔	✔
Battery	691251	✔	✔
Handpiece (handpiece, battery, light guide)		691256	667093 grey
Handpiece holder	691262	✔	✔

■ Included in Delivery forms   ✔ Available as accessory

Polishers

OptraGloss®

Efficient and advanced universal polishing system for the high-gloss polishing of composite filling materials and ceramic materials. A high-gloss finish and smooth surfaces are achieved in only one working step for composites and in only two steps for ceramics. OptraGloss polishers can be autoclaved and re-used.

Shapes:
– Flame PP
– Cup PP
– Lens PP
– Flame HP
– Cup HP
– Lens HP
– Spiral wheel HP

Areas of application:
– Clinical polishing of glass-ceramic, feldspathic-ceramic and oxide-ceramic restorations
– Clinical polishing of composite resin restorations

Benefits:
✔ Radiant high-gloss restoration surfaces in no time
✔ High wear resistance
✔ Autoclavable and reusable
✔ Two-step polishing system for ceramics
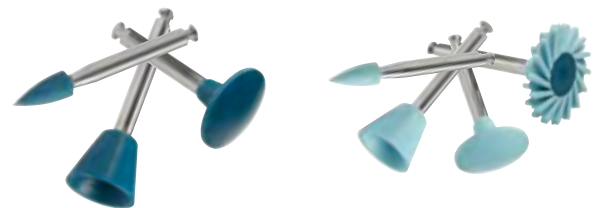
Delivery forms

Assortment		684548AN
Flame PP, cup PP, lens PP	2 x each	
Flame HP, cup HP, lens HP, spiral wheel HP	2 x each	

Ceramic Kit		684555AN
Flame PP, cup PP, lens PP	1 x each	
Flame HP, cup HP, lens HP, spiral wheel HP	1 x each	

Composite Kit		701870AN
Flame HP, cup HP, lens HP, spiral wheel HP	2 x each	

Refill	10 x each	
Flame PP		684553AN
Cup PP		684549AN
Lens PP		684551AN
Flame HP		684554AN
Cup HP		684550AN
Lens HP		684552AN
Spiral wheel HP		721094AN

Astropol®

Areas of application:
Astropol® is indicated for the pre-polishing and polishing of restorations made of composite material and amalgam.

Astropol® F
Attachments (grey) for the removal of excess composite material from proximal and occlusal surfaces.

Astropol® P
Attachments (green) for the polishing of composite resins.

Shapes:
– Small flame
– Large flame
– Cup
– Disc

Delivery forms

Refill Astropol® F (grey)	6 x each	
Small flame		557615
Large flame		557616
Cup		557617
Disc		557618

Refill Astropol® P (green)	6 x each	
Small flame		557614
Large flame		557621
Cup		557619
Disc		557620

Politip®

Multiple-use, 2-step polishing system for composites and amalgam.

Areas of application:
Politip® is indicated for the polishing of restorations made of composite resin and amalgam.

Shapes:
- Small cup
- Large cup
- Flame

Delivery forms

Refill Politip®-F	6 x each	
Flame		533602
Large cup		533603
Small cup		533604
Refill Politip®-P	6 x each	
Flame		533584
Large cup		533585
Small cup		533587

Prosthetics

Impression materials

Virtual®

Virtual® is the new line of vinyl polysiloxane impression materials specifically developed to meet the requirements of today's most popular impression taking techniques.

The Virtual line of products features the five viscosities Putty, Heavy Body, Monophase, Light Body and Extra Light Body in both "fast" (2:30 min.) and "regular" (4:30 min.) setting times.

Areas of application:
- Final impressions used for the fabrication of indirect restorations (crowns, bridges, inlays, onlays and veneers)
- Dental implant impressions
- Silicone matrices for wax-ups, study models or treatment planning
- Edentulous impressions
- Silicone matrices used to create temporary restorations

Benefits:
✔ Excellent adaptation to the moist oral hard and soft tissues
✔ Excellent displacement of moisture
✔ Exceptional readability and precision
✔ Variable setting times
✔ Fresh peppermint scent

Shades:
Sea blue: Virtual Putty, Virtual Heavy Body and Virtual Monophase

Caramel: Virtual Light Body and Virtual Extra Light Body

Delivery forms

Refill	2 x 50 ml + 12 Mixing Tips	
Extra Light Body Regular		562827
Extra Light Body Fast		562828
Light Body Regular		562829
Light Body Fast		562830
Refill	**2 x 50 ml + 6 Mixing Tips**	
Monophase Regular		562831
Monophase Fast		562832
Heavy Body Regular		562835
Heavy Body Fast		562836
Refill	**2 x 300 ml**	
Putty Regular		562839
Putty Fast		562840
Accessories		
Refill Mixing Tips, small	48x	572806
Refill Mixing Tips, large	48x	572807
Refill Intra Oral Tips, large	100x	572808
Refill Intra Oral Tips, small	100x	572809
Refill Dispenser 1:1	1x	572810

Virtual® 380

The two consistencies Heavy Body and Monophase are now offered as Virtual® 380 in large cartridges.

These XXL cartridges are used in mixing units such as Pentamix and MixStar, for example.

Benefits:
✔ Ready-to-use XXL cartridge – convenient handling
✔ Large, cost-efficient packages containing 380 ml of material

Delivery forms

Refill	2 x 380 ml + Mixer + Bayonet rings	
Monophase Fast		594838
Heavy Body Fast		594839
Heavy Body Regular		594840
Accessories		
Refill Dynamic Mixer	50x	600158

Technical data

	Extra Light Body	Light Body	Monophase		Heavy Body		Putty
Colour	Caramel	Caramel	Sea blue		Sea blue		Sea blue
Size	50 ml	50 ml	50 ml, 380 ml		50 ml, 380 ml		2 x 300 ml
Working time Fast Regular	1:00 min. 1:30 min.	1:00 min. 1:30 min	1:00 min. 1:30 min.	1:00 min. –	1:00 min. 1:30 min.	1:00 min. 1:30 min.	1:00 min. 1:30 min.
Time in mouth Fast Regular	2:30 min. 4:30 min.	2:30 min. 4:30 min.	2:30 min. 4:30 min.	3:30 min. –	2:30 min. 4:30 min.	2:30 min. 4:30 min.	2:30 min. 4:30 min
Linear dimensional change 24 h	≤ 1.50%	≤ 1.50%	≤ 1.50%		≤ 1.50%		≤ 1.50%
Strain in compression (min.– max.)	2 – 8%	2 – 8%	2 – 8%		0.8 – 5%		0.8 – 5%
Recovery after deformation	≥ 96.5%	≥ 96.5%	≥ 96.5%		≥ 96.5%		≥ 96.5%
Detail reproduction	20 μ	20 μ	20 μ		50 μ		75 μ
Shore A hardness	34-58	52-62	64-78		68-80		58-69

Virtual® CADbite

Virtual® CADbite is scannable and may be used for the optical recording of data when fabricating restorations using CAD/CAM technology. Virtual CADbite is an addition silicone, which may also be used for "conventional" bite registration techniques in conjunction with indirect restorative procedures. The material offers a thixotropic viscosity, high precision, a fast setting time with a final hardness of 32 Shore D and is dimensionally stable.

Benefits:

✓ **Fast**
As the material requires an intra oral set time of only 45 seconds, the risk of distortions and inaccuracies due to patient jaw movements are substantially reduced. At the same time, Virtual CADbite provides sufficient working time to allow full-arch bite registrations to be taken.

✓ **Strong**
Due to the material's high final hardness of 32 Shore D and high fracture toughness, Virtual CADbite registrations are easy to trim and grind. Moreover, undesirable shifts are prevented when adjusting the position of the casts in the articulator.

✓ **Scannable**
In response to the needs of CAD/CAM users across the globe, Virtual CADbite has been given a reflective surface. It delivers excellent results when capturing images with intraoral scanning devices.

Delivery forms

Refill	2 x 50 ml + Mixing Tips	607908
Accessories		
Refill Mixing Tips, small	48x	572806

Bite registration with Virtual CADbite in situ
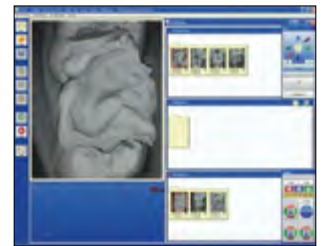
Scanned bite record

Centric Tray

Centric Tray is an impression tray for the time-saving determination of jaw relations in complete and partial denture prosthetics.

Benefits:

✓ Easy and precise determination of the centric relation
✓ Reusable, saves time and money

Delivery forms

Centric Tray		559166
Centric Tray	1x	
Regular supports	3x	
Supporting wings	3x	

Intraoral scanners and software

VivaScan®

VivaScan is the ideal solution for your entry into the world of digital dentistry. The VivaScan features laser technology of the next generation, which ensures precise scanning at superior speed. The user-friendly scan & send software solution allows dentists to capture digital impressions and transfer the data to their laboratory in a fast and streamlined workflow. VivaScan and Ivoclar Cloud connect dentists and dental labs and optimize their cooperation.

Benefits:

✔ Lightweight and ergonomic design: VivaScan is compact in size for a flexible scanning experience. Its slim, lightweight and ergonomic design makes scanning an effortless task.

✔ Plug & play function: The device's plug & play function allows you to use VivaScan as a portable system. The scanner simply needs to be connected to a laptop for it to work. This makes using VivaScan extremely easy.

✔ Two tip sizes: VivaScan comes with two different-sized tips (regular and small), which allow you to determine the best fit for every patient so that their scanning appointment will be as comfortable as possible.

✔ Two-button function: This function allows you a touch-free operation of the laptop during the scanning process on the patient. High speed provides a fast scanning experience and helps you to treat a larger number of patients without wasting time or consumables.

✔ True colour scan: The true colour scans produced with VivaScan help your laboratory to design and fabricate restorations precisely. Consequently, you can provide your patients with excellent fitting restorations[1], which will make you and your patients smile.

✔ Integrated HD camera: The integrated HD camera makes your work easier due to high-resolution photographs and the case documentation.

Delivery forms

VivaScan Intraoral Scanner	1x	740278
Accessories		
VivaScan Holder	1x	740280
VivaScan Attachment Regular	1x	740282
VivaScan Attachment Small	1x	740283
VivaScan Colour Balancer	1x	740284
VivaScan Protective Attachment	1x	740285
VivaScan USB Data Cable	1x	740287
VivaScan Protective Sleeve	1x	754250
VivaScan Laptop DE	1x	759656
VivaScan Laptop FR	1x	759657
VivaScan Laptop US	1x	759658
VivaScan Laptop EN	1x	759659

[1] Ender A et al. Int J Comput Dent 2019: 22: 11–19, additional data on file

Milling machines and software

PograMill® PM7

If you are looking for efficiency and performance, then the high-performance PograMill® PM7 is the right choice for you. This machine is suitable for a versatile variety of materials and applications in wet and dry milling processes.

Equipped with a high-performance spindle, the high-power 5-axis milling machine efficiently produces restorations that are distinguished by their outstanding surface quality and excellent accuracy of fit.

Delivery forms

PograMill® PM7 system	**1 pc.**	**689240**

Milling machine, material holder, tools, Operating Instructions, accessories

Accessories

PograMill disc holder for PM7/PM5/PM3	7 pcs	689242
IPS e.matrix for PM7/PM5/PM3	1 pc.	689241
RFID container for disc holder	1 pc.	689246
RFID container for IPS e.matrix	1 pc.	721371
Spindle protection cap for PM7	5 pcs	740699
PograMill micrometer	1 pc.	697681
PograMill tool green 2.5 for PM7	1 pc.	689024
PograMill tool green 1.0 for PM7	1 pc.	689025
PograMill tool green 0.5 for PM7	1 pc.	689026
PograMill tool safety pin for PM7	1 pc.	695045
Collet for PM7	1 pc.	749932
Spindle maintenance set for PM7	1 pc.	689253
Tool magazine for PM7	1 pc.	689251

PrograMill® PM5

The PrograMill® PM5 is a milling machine for universal use that features an 8-way material changer for the wet and dry processing of dental materials.

High precision, intuitive operation and the ability to process a wide variety of materials makes this 5-axis milling unit the ideal partner for your laboratory.

Delivery forms

PrograMill® PM5 system	**1 pc.**	**689239**
Milling machine, material holders, tools, Operating Instructions, accessories		

Accessories

PrograMill Disc Holder for PM7/PM5/PM3	7 pcs	689242
IPS e.matrix for PM7/PM5/PM3	1 pc.	689241
RFID Container for Disc Holder	1 pc.	689246
RFID Container for IPS e.matrix	1 pc,	721371
Spindle Protection Cap for PM3/5	5 pcs	740700
PrograMill Outside Micrometer	1 pc.	697681
Collet Chuck for PM5/PM3	2 pcs	749661
Key for Collet Chuck for PM5/PM3	1 pc.	741450
PrograMill Tool green 2.5 for PM5/PM3	1 pc.	689047
PrograMill Tool green 1.0 for PM5/PM3	1 pc.	689048
PrograMill Tool green 0.5 for PM5/PM3	1 pc.	689049
Spindle Maintenance Set for PM5/PM3	1 pc.	689252
Tool Magazine for PM5/PM3	1 pc.	702053

PrograMill® PM3

High precision and consistent results are the distinguishing features of the PrograMill® PM3. This 5-axis milling machine provides great flexibility. It can process a diverse range of materials for a versatile spectrum of applications in both wet and dry operation.

The PrograMill PM3 is more than an entry-level dental mill: It offers technical sophistication, intuitive operation and high-quality results.

Delivery forms

PrograMill® PM3 system	**1 pc.**	**689238**
Milling machine, material holder, tools, Operating Instructions, accessories		

Accessories

PrograMill disc holder for PM7/PM5/PM3	7 pcs	689242
IPS e.matrix for PM7/PM5/PM3	1 pc.	689241
RFID container for disc holder	1 pc.	689246
RFID container for IPS e.matrix	1 pc.	721371
Spindle protection cap for PM5/PM3	5 pcs	740700
PrograMill micrometer	1 pc.	697681
Collet for PM5/PM3	2 pcs	749661
Collet wrench for PM5/PM3	1 pc.	741450
PrograMill tool green 2.5 for PM5/PM3	1 pc.	689047
PrograMill tool green 1.0 for PM5/PM3	1 pc.	689048
PrograMill tool green 0.5 for PM5/PM3	1 pc.	689049
Spindle maintenance set for PM5/PM3	1 pc.	689252
Tool magazine for PM5/PM3	1 pc.	702053

PrograMill® DRY

PrograMill® DRY is a compact 5-axis dry milling machine and combines coordinated processes with high-quality materials, mature technologies and comfortable handling.

Thanks to its compact design, the mill scores highly on flexibility. The machine manufactures crowns and bridges from zirconium oxide and innovative digital denture solutions from PMMA materials, such as full dentures from the Ivotion discs.

The mill also features a quick clamping system that can be operated with just one hand and without the need for additional tools, making changing materials intuitive and simple.

Delivery forms

PrograMill® DRY system	**1 pc.**	**746260**
Milling machine, tools, Operating Instructions, accessories		

Accessories

Spindle maintenance set	1 pc.	746383
Administrated tool board	1 pc.	746384
Calibration set PrograMill DRY incl.	1 pc.	747808
Micrometer (item no. 667766)	1 pc.	
Test specimen blanks (item no. 667766)	3 pcs	
Calibration cutter (item no. 667766)	1 pc.	
Tool magazine inserts PrograMill DRY	2 pcs	747791
Adapter for connecting the extraction system	1 pc.	666564
PrograMill tool yellow 2.5 for PrograMill DRY	2 pcs	748043
PrograMill tool yellow 1.0 for PrograMill DRY	2 pcs	748042
PrograMill tool yellow 0.7 for PrograMill DRY	2 pcs	748041
Ivotion denture ring PrograMill DRY	1 pc.	750661
Key for emergency release of the working chamber door	2 pcs	682383
Measurement pin	1 pc.	659320
Drill for tool positions	1 pc.	747804
USB cable	1 pc.	747764

Product comparison

Overview of technical data	PrograMill PM7	PrograMill PM5	PrograMill PM3	PrograMill DRY
Material magazine	8 discs / e.matrix holder	8 discs / e.matrix holder	1 disc / e.matrix holder	1 disc
Block / Disc process	✓ / ✓	✓ / ✓	✓ / ✓	– / ✓
Automatic tool changer	20	13	13	16
Harmonic drive gear	✓	✓	✓	–
Stepper motors	–	–	–	✓
Servomotors	✓	✓	✓	–
Zero-point clamping system	✓	✓	✓	
Spindle	Jaeger 970 W / 60,000 rpm	Jaeger 390 W / 60,000 rpm	Jaeger 390 W / 60,000 rpm	SFK 300P 500 W / 60,000 rpm
Ionizer	✓	–	–	–
Automatic machine calibration	–	–	–	–
Internal PC	✓	✓	✓	–
Internal high-resolution touchscreen display	✓	✓	✓	–

Areas of application

	PrograMill PM7	PrograMill PM5	PrograMill PM3	PrograMill DRY
Veneers, thin veneers, occlusal veneers	✓	✓	✓	✓
Inlays, onlays, partial crowns	✓	✓	✓	✓
Full-contour crowns	✓	✓	✓	✓
Full-contour bridges	✓	✓	✓	✓
Crown frameworks	✓	✓	✓	✓
Bridge frameworks	✓	✓	✓	✓
Multi-unit bridges	✓	✓	✓	✓
Tooth segments	✓	✓	✓	✓
Denture bases	✓	✓	✓	✓
Digital full arch dentures	✓	✓	✓	✓
Telescopes	✓	✓	✓	–
Attachments	✓	✓	✓	✓
Functional try-ins	✓	✓	✓	✓
Impression and functional trays	✓	✓	✓	✓
Bite registrations, transfer templates	✓	✓	✓	✓
Occlusal splints, drilling templates	✓	✓	✓	✓
Models	✓	✓	✓	✓

PrograMill® Tools

Specially developed tools for the CAD/CAM materials and PrograMill milling machines from Ivoclar

PrograMill PM7
Processes blocks and discs

Glass-ceramic / Composite

g3.0 g2.0 g1.0 g0.5

PrograMill tool red for PM7

g3.0	1 pc.	689018
g2.0	1 pc.	689019
g1.0	1 pc.	689020
g0.5	1 pc.	689021

Zirconium oxide

2.5c 1.0c 0.5c 2.5 1.0 0.5
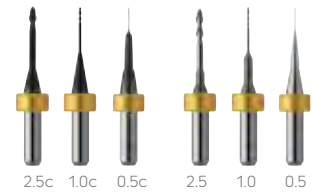
PrograMill tool yellow for PM7

2.5c	1 pc.	689012
1.0c	1 pc.	689013
0.5c	1 pc.	689014
2.5	1 pc.	689015
1.0	1 pc.	689016
0.5	1 pc.	689017

PrograMill PM5 / PM3
Process blocks and discs

g2.8 g2.0 g1.0 g0.5

PrograMill tool red for PM5/PM3

g2.8	1 pc.	712774
g2.0	1 pc.	689043
g1.0	1 pc.	689044
g0.5	1 pc.	689045

2.5c 1.0c 0.5c 2.5 1.0 0.5
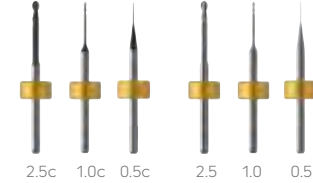
PrograMill tool yellow for PM5/PM3

2.5c	1 pc.	689036
1.0c	1 pc.	689037
0.5c	1 pc.	689038
2.5	1 pc.	689039
1.0	1 pc.	689040
0.5	1 pc.	689041

PrograMill DRY
Processes discs

2.5c 1.0c 2.5 1.0 0.7 0.3

PrograMill tool yellow for PM-DRY

2.5c	1 pc.	748040
1.0c	1 pc.	748039
2.5	1 pc.	748043
1.0	1 pc.	748042
0.7	1 pc.	748041
0.3	1 pc.	748037

PMMA/DCL

5.0   f1.5   2.5c   1.0c   0.5c
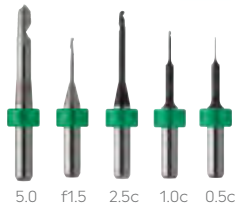
PrograMill tool green for PM7

5.0	1 pc.	689022
f1.5	1 pc.	689023
2.5c	1 pc.	689024
1.0c	1 pc.	689025
0.5c	1 pc.	689026

Wax

5.0   f1.5   2.5   1.0   0.5
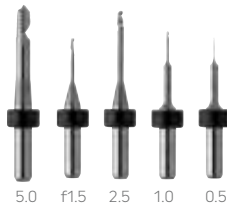
PrograMill tool black for PM7

5.0	1 pc.	689027
f1.5	1 pc.	689028
2.5	1 pc.	689029
1.0	1 pc.	689030
0.5	1 pc.	689031

Cobalt chromium/Titanium

3.0c   2.0c   1.5c   1.0c   0.6c   t3.0c   t1.5c
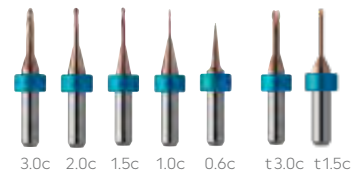
PrograMill tool blue for PM7

3.0c	1 pc.	692445
2.0c	1 pc.	689032
1.5c	1 pc.	689033
1.0c	1 pc.	689034
0.6c	1 pc.	689035
t3.0c	1 pc.	702905
t1.5c	1 pc.	754521

f1.5   2.5c   1.0c   0.5c
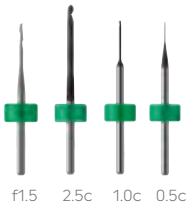
PrograMill tool green for PM5/PM3

f1.5	1 pc.	689046
2.5c	1 pc.	689047
1.0c	1 pc.	689048
0.5c	1 pc.	689049

f1.5   2.5   1.0   0.5
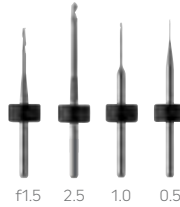
PrograMill tool black for PM5/PM3

f1.5	1 pc.	689050
2.5	1 pc.	689051
1.0	1 pc.	689052
0.5	1 pc.	689053

2.0c   1.5c   1.0c   0.6c   p2.0c   p1.5c   p1.0c
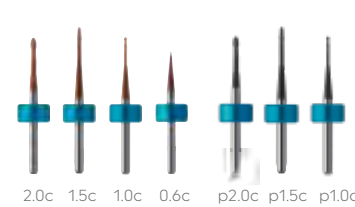
PrograMill tool blue for PM5/PM3

2.0c	1 pc.	689054
1.5c	1 pc.	689055
1.0c	1 pc.	689056
0.6c	1 pc.	689057
p2.0c	1 pc.	754738
p1.5c	1 pc.	754739
p1.0c	1 pc.	754740

f1.5   2.5c   1.0c   0.7c   2.5   1.0   0.7
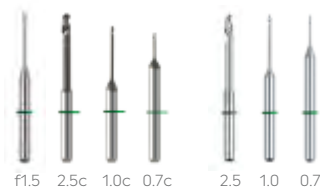
PrograMill tool green for PM7

f1.5.	1 pc.	748050
2.5c	1 pc.	748049
1.0c	1 pc.	748048
0.7c	1 pc.	748047
2.5	1 pc.	748046
1.0	1 pc.	748045
0.7	1 pc.	748044

CAM software

The CAM software presents the interface between the design software and the milling machine and plays a crucial role. The CAM software converts design data into milling data and calculates the required milling paths. The milling strategies have a decisive influence on the quality and accuracy of fit of the restorations and can be flexibly adjusted to meet customer needs.

PrograMill® CAM V4

The software PrograMill CAM V4, which is adapted to the PrograMill® milling machines, utilizes the entire potential of the milling machines. The software is distinguished by its very short calculation times and the 5-axis simultaneous control of the machine.

Includes all necessary licences for the PrograMill milling machines

✔ Milling and grinding Ivoclar materials included
✔ Wet processing of IPS e.max CAD included
✔ Open for third-party materials
✔ Flexible upgrade options

Delivery forms

PrograMill CAM software 2022 incl. RFID reader		691953
PrograMill CAM software 2022		756233
Software upgrade PrograMill CAM 2021 → PrograMill CAM 2022		756234
Upgrade CAM V3 → PrograMill CAM 2021 (existing licences remain valid)		690258
Upgrade Zenotec CAM V3 → PrograMill CAM 22 (existing licences remain valid)		757683
PrograMill CAM PC (without mouse, keyboard and monitor)		691691
PrograMill CAM software subscription		691452
RFID reader (read/write module) TS-H34	1 pc.	664340
PrograMill / PrograPrint PC	1 pc.	691691
Widescreen monitor	1 pc.	697508
Optical mouse	1 pc.	751604
Keyboard		
German	1 pc.	662911
US/EURO	1 pc.	747635
Spanish	1 pc.	747631
Italian	1 pc.	747632
French	1 pc.	747633
Post processor PrograMill		676270

PrograMill® material holders

Powerful holders for the PrograMill® machines PM7, PM5 and PM3 have been developed to ensure optimum processing of Ivoclar Digital CAD/CAM materials.

PrograMill® disc holder

A powerful holder has been developed for the PrograMill machines PM7, PM5 and PM3, which is distinguished by its zero-point clamping system. It ensures the optimum processing of discs with a circumferential groove of 10 mm.

The secure fit of all material discs results in high-quality milling results.

Delivery forms

PrograMill® disc holder for PM7/PM5/PM37	1 pc.	691953

Digital Denture holder

A special ring has been developed to modify the PrograMill disc holder for the Digital Denture process. It allows Ivotion to be secured in a predefined position and an already processed disc to be re-positioned accurately.

A denture, which has already been milled from the upper side, can therefore be easily removed so that the prefabricated teeth can be adhesively secured in place and then re-positioned for further processing.

Delivery forms

Digital Denture holder ring for PM7/PM5/PM3	1 pc.	689245

IPS e.matrix®

The patented multi-holder IPS e.matrix for PM7/PM5/PM3 enables up to six blocks to be milled in one grinding sequence, depending on the block size.

The IPS e.matrix for PM7/PM5/PM3 can be easily removed from the materials magazine and can be conveniently loaded outside the unit. The multi-holder is ideally adapted to the PrograMill machining strategies.

Delivery forms

IPS e.matrix for PM7/PM5/PM3	1 pc.	689241

PrograMill® abutment holder for NT-trading

The PrograMill® abutment holder for NT-trading has been exclusively developed for the PrograMill PM7 milling machine and is suitable for a comprehensive range of implant interfaces.

The holder allows you to mill highly precise, individual abutments using titanium preforms.

Processing begins right after having inserted the holder into the milling machine. Calibration is not required.

Delivery forms

PrograMill abutment holder for NT-trading set	1 pc.	747869
PrograMill abutment holder for NT-trading Instructions for Use PrograMill tool blue 3.0c for PM7 PrograMill tool blue 2.0c for PM7 PrograMill tool blue 1.5c for PM7 PrograMill tool blue 1.0c for PM7 Allen key		
PrograMill abutment holder for NT-trading single	1 pc.	747870
For PrograMill PM3/5:		
Abut. holder NT-trading set PM3/5		756211
Abut.holder NT-trading single PM3/5		756212

PrograMill® abutment holder for Medentika

The PrograMill® abutment holder for Medentika has been exclusively developed for the PrograMill PM7 milling machine and is suitable for a comprehensive range of implant interfaces.

The holder allows you to mill highly precise, individual abutments using titanium preforms.

Processing begins right after having inserted the holder into the milling machine. Calibration is not required.

Delivery forms

PrograMill abutment holder for Medentika set PM7	1 pc.	755224
PrograMill abutment holder for Medentika Instructions for Use PrograMill tool blue 3.0c for PM7 PrograMill tool blue 2.0c for PM7 PrograMill tool blue 1.5c for PM7 PrograMill tool blue 1.0c for PM7 Allen key		
PrograMill abutment holder for Medentika set PM5/3	1 pc.	756213
PrograMill abutment holder for Medentika Instructions for Use PrograMill tool blue 2.0c for PM3/5 PrograMill tool blue 1.5c for PM3/5 PrograMill tool blue 1.0c for PM3/5 Allen key		
PrograMill abutment holder for Medentika single	1 pc.	755225

CAD/CAM blocks

IPS e.max® CAD

Lithium disilicate glass-ceramics (LS$_2$)

IPS e.max® CAD is the best-selling glass-ceramic[1] worldwide. The material enables the efficient fabrication of full-contour restorations. It is distinguished by its flexibility, versatile field of applications and processing options and its high strength of 530 MPa[2].

Both its esthetic properties and durability have been confirmed in everyday clinical practice.[3-5].

Processing options:

"Blue" restorations can be:
– polished and crystallized
– glazed and crystallized in a single step
– stained, glazed and crystallized in a single step

Types of restorations:

– Minimally invasive crowns (1 mm)[6]
– crowns
– Three-unit bridges (up to the second premolar as the terminal abutment)
– Implant-supported hybrid abutment restorations (hybrid abutments[7], hybrid abutment crowns)
– Veneers and occlusal veneers
– Inlays, onlays, partial crowns

Benefits:

✓ Excellent esthetics and high flexural strength of 530 MPa[2]
✓ 97.2% survival rate of posterior crowns over a period of 10 years[8]
✓ Efficient grinding and crystallization of posterior crowns in only 19:17 minutes[9]
✓ Broad spectrum of restorations for your chairside CAD/CAM applications
✓ 10-year guarantee
✓ Suitable for conventional, adhesive or self-adhesive cementation techniques

Block sizes[7]:

– 6 (I12, C14, C16, B32, B40 and B40 L) and 2 abutment block sizes (A14, A16)

Translucency levels[7]:

– 4 levels and 2 Impulse blocks (HT – High Translucency, MT – Medium Translucency, LT – Low Translucency, MO – Medium Opacity)

Shades[7]:

– Comprehensive range of shades: in A–D and BL shades (the range of shades varies depending on the translucency level), see page 124.

Delivery forms

Refill IPS e.max® CAD blocks

Authorized CAD/CAM systems:

✓ **Ivoclar:**
– PrograMill® PM3 / PM5 / PM7 / One
– Zenotec® select hybrid
✓ **Amann Girrbach:**
– ceramill® mikro ic,
– ceramill® motion 2 / motion 3 /drs
– ceramill® matik
✓ **Planmeca:**
– PlanMill® 30 S / 40 / 40 S
✓ **Dentsply Sirona:**
– inLab® MC XL / MC X5
– CEREC® MC / MC X / MC XL / Primemill

[1] Based on global sales figures.
[2] Average biaxial flexural strength; outcome after more than 10 years of ongoing quality testing, R&D Ivoclar, Schaan.
[3] Fasbinder D. J et al., Study report, 2017b.
[4] Rauch A et al., Clin. Oral Investig. 2018, 22, p. 1763-1769.
[5] Boldt J, Spitznagel F. A, Dtsch. Zahnaerztl. Z. 2017, 72 (4), p. 319-325.
[6] Long-term clinical evidence and the material's high strength allows the recommendation for crowns with a minimum layer thickness of 1 mm in combination with an adhesive cementation method.
[7] The offering varies, depending on the CAD/CAM system being used.
[8] The survival rate of monolithic IPS e.max CAD posterior crowns was evaluated with the Kaplan-Meier method. The failure rate refers to technical failures such as fractures and chipping, R&D Ivoclar, Schaan.
[9] Average grinding time of three posterior crowns, 08:07 minutes (CEREC Primemill, fast grinding mode), followed by superspeed crystallization in the Programat CS6, 11:10 minutes (HT, MT, LT / glaze spray or polishing technique), maximal two restorations, R&D Ivoclar, Schaan.

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Blocks for CEREC®/inLab®
Refills

			Shades												
Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3	B4

Translucency level (HT)

Given their high translucency, HT blocks are ideally suited for the fabrication of small restorations (e.g. inlays, onlays). Restorations m...

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3	B4
I12	1 x 5 each	626423	626424	626425	626426	626391	626392	626393	626394	626395	626396	626397	626398	626...
C14	1 x 5 each	626427	626428	626429	626430	626407	626408	626409	626410	626411	626412	626413	626414	626...
B40	1 x 3 each		634603			634586	634587	634588	634589		634591	634592		
B40 L	1 x 3 each		648957			648870	648871	648942	648943		648945	648946		
	1x										Shade guide[4] (autoclavable) **613998**			

Translucency level (MT)

MT blocks demonstrate medium translucency and are used for restorations that require more brightness than HT restorations and more...

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3	B4
C14	1 x 5 each		680032	680033	680034	680028	680029	680030			680031			
	1x										Shade guide[5] (autoclavable) **680311**			

Translucency level (LT)

Given their low translucency, LT blocks are ideal for the fabrication of larger restorations (e.g. posterior crowns). Restorations made from...

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3	B4
I12	1 x 5 each	605338	605339	605340	605341	605318	605319	605320	605321	626377	605322	605323	605324	626...
C14	1 x 5 each	605343	605344	605345	605346	605328	605329	605330	605331	626384	605332	605333	605334	626...
C16	1 x 5 each		648221			648188	648189	648190	648191		648193	648194		
A14 (S)	1 x 5 each		678882			678784	678785	678866	678867		678868	678869		
A14 (L)	1 x 5 each		678883			678873	678874	678875	678876		678877	678878		
A16 (S)	1 x 5 each		645595			644367	644368	644369	644370		644372	644373		
A16 (L)	1 x 5 each		645599			644383	644385	644386	644387		644389	644390		
B32	1 x 3 each		648225			648204	648205	648206	648207		648209	648210		
	x										Shade guide[5] (autoclavable) **605523**			

Translucency level (MO)

Given their particular opacity, MO blocks are ideally suited for the fabrication of frameworks on slightly discoloured preparations.

Size	Quantity	0	1	2	
C14	1 x 5 each	596797	596798	596799	
A14 (S)	1 x 5 each	644357	644358	644359	
A14 (L)	1 x 5 each	644362	644363	644364	
	1x			Shade guide (autoclavable) **597067**	

Translucency level (Impulse)

The Impulse blocks result in restorations that demonstrate pronounced opalescent properties. The opalescent blocks are available in tw...

Size	Quantity	01 (Opal)	
C14	1 x 5 each	637793	
	1x	Shade guide (autoclavable) **597067**	

Abbreviations: I = Inlay, C = Crown, B = Bridge, A = Abutment, (S) and (L) = Interface size

[1] At natural lighting conditions. Artificial-generated UV or UV-like light may result in a different impression.
[2] The cut-back technique must not be applied on thin anterior veneers and occlusal veneers.
[3] Only up to the second premolar as the terminal abutment.
[4] Up to the second premolar.
[5] Shade guide for IPS e.max CAD/IPS e.max Press.

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IPS e.max® CAD
Lithium disilicate glass-ceramics (LS$_2$)

Types of restorations

4	C1	C2	C3	C4	D2	D3	D4	Occlusal veneers [2]	Thin veneers [2]	Veneers	Inlays, onlays	Partial crowns	Crowns	3-unit bridges	Hybrid abutments	Hybrid abutment crowns

HT (High Translucency)

...ade from HT blocks blend in naturally with their surroundings due to their chameleon effect.[1]

4	C1	C2	C3	C4	D2	D3	D4	Occlusal veneers [2]	Thin veneers [2]	Veneers	Inlays, onlays	Partial crowns	Crowns	3-unit bridges	Hybrid abutments	Hybrid abutment crowns
399	626400	626401	626402	626403	626404	626405	626406									
415	626416	626417	626418	626419	626420	626421	626422									
	634595	634596			634599			✔	✔	✔	✔	✔	✔			
	648949	648950			648953											

MT (Medium Translucency)

...e translucency than LT restorations.

								Occlusal veneers	Thin veneers	Veneers	Inlays, onlays	Partial crowns	Crowns	3-unit bridges	Hybrid abutments	Hybrid abutment crowns
								✔	✔	✔	✔	✔	✔			

LT (Low Translucency)

...n LT blocks impress with their brightness and chroma.

378	C1	C2	C3	C4	D2	D3	D4	Occlusal veneers	Thin veneers	Veneers	Inlays, onlays	Partial crowns	Crowns	3-unit bridges	Hybrid abutments	Hybrid abutment crowns
378	626379	605325	626380	626381	626382	605326	626383									
385	626386	605335	626387	626388	626389	605336	626390									
	648197	648198			648201											
	678870	678871			678872											
	678879	678880			678881				✔	✔		✔	✔	✔[3]	✔	✔
	644376	644377			644380											
	644393	644394			644397											
	648213	648214			648217											

MO (Medium Opacity)

3	4	Occlusal veneers	Thin veneers	Veneers	Inlays, onlays	Partial crowns	Crowns	3-unit bridges	Hybrid abutments	Hybrid abutment crowns
596800	596801									
644360	644361						✔[4]		✔	
644365	644366									

Impulse

...o versions with different opalescence values (Opal 1, Opal 2). The blocks are suitable for the fabrication of light veneers that require an opalescent effect.

02 (Opal)	Occlusal veneers	Thin veneers	Veneers	Inlays, onlays	Partial crowns	Crowns	3-unit bridges	Hybrid abutments	Hybrid abutment crowns
637794	✔	✔	✔						

Blocks for PlanMill®
Refills

		Shades											
		BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3

Translucency level

Size	Quantity												
		Given their high translucency, HT blocks are ideally suited for the fabrication of small restorations (e.g. inlays, onlays). Restorations mad…											
I12	1 x 5 each	665880	665881	665882	665883	665848	665849	665850	665851	665852	665853	665854	665855
C14	1 x 5 each	665884	665885	665886	665887	665864	665865	665866	665867	665868	665869	665870	665871
	1x	Shade guide[4] (autoclavable) 613998											

Translucency level

C14	1 x 5 each												
		MT blocks demonstrate medium translucency and are used for restorations that require more brightness than HT restorations and more…											
C14	1 x 5 each		680039	680040	680041	680035	680036	680037			680038		
	1x	Shade guide[2] (autoclavable) 680311											

Translucency level

Size	Quantity												
		Given their low translucency, LT blocks are ideal for the fabrication of larger restorations (e.g. posterior crowns). Restorations made from…											
I12	1 x 5 each	665832	665833	665834	665835	665768	665769	665770	665771	665772	665773	665774	665775
C14	1 x 5 each	665836	665837	665838	665839	665784	665785	665786	665787	665788	665789	665790	665791
C16	1 x 5 each		665841			665800	665801	665802	665803		665805	665806	
A14 (SD)	1 x 5 each		686003			686004	686005	686006	686007		686008	686009	
A14 (MD)	1 x 5 each		686013			686014	686015	686016	686017		686018	686019	
A16 (SD)	1 x 5 each		686023			686024	686025	686026	686027		686028	686029	
A16 (MD)	1 x 5 each		686033			686034	686035	686036	686037		686038	686039	
B32	1 x 3 each		665845			665816	665817	665818	665819		665821	665822	
	1x	Shade guide[4] (autoclavable) 605523											

Translucency level

		The Impulse blocks result in restorations that demonstrate pronounced opalescent properties. The opalescent blocks are available in tw…		
		01 (Opal)		
C14	1 x 5 each	665763		
	1x	Shade guide (autoclavable) 597067		

Abbreviations: I = Inlay, C = Crown, B = Bridge, A = Abutment, (SD) and (MD) = Interface size

[1] At natural lighting conditions. Artificial-generated UV or UV-like light may result in a different impression.
[2] The cut-back technique must not be applied on thin anterior veneers and occlusal veneers.
[3] Only up to the second premolar as the terminal abutment.
[4] Shade guide for IPS e.max CAD/IPS e.max Press.

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IPS e.max® CAD
Lithium disilicate glass-ceramics (LS$_2$)

B4	C1	C2	C3	C4	D2	D3	D4		Types of restorations							
									Occlusal veneers [2]	Thin veneers [2]	Veneers	Inlays, onlays	Partial crowns	Crowns	3-unit bridges	Hybrid abutment crowns

HT (High Translucency)

e from HT blocks blend in naturally with their surroundings due to their chameleon effect.[1]

| 665856 | 665857 | 665858 | 665859 | 665860 | 665861 | 665862 | 665863 | | | | | | | | | |
| 665872 | 665873 | 665874 | 665875 | 665876 | 665877 | 665878 | 665879 | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | |

MT (Medium Translucency)

e translucency than LT restorations.

| | | | | | | | | | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | | |

LT (Low Translucency)

n LT blocks impress with their brightness and chroma.

665776	665777	665778	665779	665780	665781	665782	665783									
665792	665793	665794	665795	665796	665797	665798	665799									
	665809	665810			665813											
	686010	686011			686012											
	686020	686021			686022				✔		✔		✔	✔	✔[3]	✔
	686030	686031			686032											
	686040	686041			686042											
	665825	665826			665829											

Impulse

vo versions with different opalescence values (Opal 1, Opal 2). The blocks are suitable for the fabrication of light veneers that require an opalescent effect.

| 02 (Opal) | | | | | | | | | | | | | | | | |
| 665764 | | | | | | | | | ✔ | ✔ | ✔ | | | | | |

Blocks for PrograMill®
Refills

Shades

	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3

Translucency level

Given their high translucency, HT blocks are ideally suited for the fabrication of small restorations (e.g. inlays, onlays). Restorations mad…

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3
I12	1 x 5 each	686559	686560	686561	686562	686563	686564	686565	686566	686567	686568	686569	68657…
C14	1 x 5 each	686579	686580	686581	686582	686583	686584	686585	686586	686587	686588	686589	68659…
	1x												

Shade guide[5] (autoclavable) 613998

Translucency level

MT blocks demonstrate medium translucency and are used for restorations that require more brightness than HT restorations and more…

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3
C14	1 x 5 each		686552	686553	686554	686555	686556	686557			686558		
	1x												

Shade guide[5] (autoclavable) 680311

Translucency level

Given their low translucency, LT blocks are ideal for the fabrication of larger restorations (e.g. posterior crowns). Restorations made from…

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	A4	B1	B2	B3
C14	1 x 5 each	686512	686513	686514	686515	686516	686517	686518	686519	686520	686521	686522	68652…
C16	1 x 5 each		686532			686533	686534	686535	686536		686537	686538	
B32	1 x 3 each		686542			686543	686544	686545	686546		686547	686548	
	1x												

Shade guide[5] (autoclavable) 605523

Translucency level

Given their particular opacity, MO blocks are ideally suited for the fabrication of frameworks on slightly discoloured preparations.

Size	Quantity	0	1	2
C14	1 x 5 each	686507	686508	686509
	1x			

Shade guide (autoclavable) 597067

Translucency level

The Impulse blocks result in restorations that demonstrate pronounced opalescent properties. The opalescent blocks are available in tw…

Size	Quantity	01 (Opal)	
C14	1 x 5 each	686505	
	1x		

Shade guide (autoclavable) 597067

Abbreviations: I = Inlay, C = Crown, B = Bridge

[1] At natural lighting conditions. Artificial-generated UV or UV-like light may result in a different impression.
[2] The cut-back technique must not be applied on thin anterior veneers and occlusal veneers.
[3] Only up to the second premolar as the terminal abutment.
[4] Up to the second premolar.
[5] Shade guide for IPS e.max CAD/IPS e.max Press.

IPS e.max® CAD
Lithium disilicate glass-ceramics (LS$_2$)

	B4	C1	C2	C3	C4	D2	D3	D4	Types of restorations						
									Occlusal veneers[2]	Thin veneers[2]	Veneers	Inlays, onlays	Partial crowns	Crowns	3-unit bridges
HT (High Translucency)															
from HT blocks blend in naturally with their surroundings due to their chameleon effect.[1]															
0	686571	686572	686573	686574	686575	686576	686577	686578	✔	✔	✔	✔	✔	✔	
0	686591	686592	686593	686594	686595	686596	686597	686598							
MT (Medium Translucency)															
translucency than LT restorations.									✔	✔	✔	✔	✔	✔	
LT (Low Translucency)															
LT blocks impress with their brightness and chroma.															
3	686524	686525	686526	686527	686528	686529	686530	686531			✔		✔	✔	✔[3]
		686539	686540			686541									
		686549	686550			686551									
MO (Medium Opacity)															
		3				4								✔[4]	
		686510				686511									
Impulse															
vo versions with different opalescence values (Opal 1, Opal 2). The blocks are suitable for the fabrication of light veneers that require an opalescent effect.															
		02 (Opal)							✔	✔	✔				
		686506													

IPS e.max® ZirCAD

Zirconium oxide ceramics (ZrO$_2$)

IPS e.max® ZirCAD allows dental professionals to produce esthetic, monolithic zirconia restorations efficiently in the dental practice with the help of efficient speed sintering programs.

Two groups of materials combined into one – this is what makes IPS e.max ZirCAD MT Multi special: translucent 5Y-TZP zirconium oxide provides high translucency for the incisal zone and the more opaque 4Y-TZP zirconium oxide provides high stability in the dentin zone.

In addition, the material features a gradual progession of shade and translucency, consisting of 60% dentin, 20% transition and 20% incisal zone. This distribution reflects the natural progression from dentin to incisal and imparts natural esthetic appearance to the restorations, even if no characterizations are applied[3].

Processing options:
After the sintering procedure, restorations can be
– glazed and fired
– optionally: stained, gazed and fired
– polished

Types of restorations:
– Crowns
– Three-unit bridges

Benefits:
✔ High strengths of 1200 MPa (LT[1]) and 850 MPa (MT Multi[2]) allow reduced wall thicknesses and conservative preparation methods.
✔ Natural progression of shade and translucency deliver true-to-nature esthetic results in conjunction with MT Multi[3]
✔ Natural fluorescence can be achieved with IPS e.max CAD Crystall./Glaze Fluo paste[3]
✔ 10-year guarantee
✔ Conventional, adhesive or self-adhesive cementation

Block sizes:
– 2 (C17 and B45)

Translucency levels:
– 1 and 1 MT Multi block (MT Multi – Medium Translucency, LT – Low Translucency)

Shades:
– 8 (BL or BL1, A1, A2, A3, B1, B2, C2, D2)

Authorized CAD/CAM systems:
✔ Dentsply Sirona:
  – inLab® MC XL
  – CEREC® MC / MC X / MC XL / Primemill
✔ Planmeca:
  – PlanMill® 30 S / 40 /40 S

Delivery forms

IPS e.max® ZirCAD for CEREC®/inLab® Starter Kit MT Multi	694514
IPS e.max® ZirCAD for CEREC®/inLab® Starter Kit LT	686282
IPS e.max® ZirCAD for PlanMill® Starter Kit MT Multi	694516
IPS e.max® ZirCAD for PlanMill® Starter Kit LT	686283

Block C14, shades: A1, A2, A3	1 x 2 blocks each
Block B45, shade: A2	1 x 1 block
IPS e.max CAD Crystall./Glaze Paste Fluo	1 x 3 g
Ivoclean	1 x 5 g
SpeedCEM Plus	1 x 9 g
OptraGate small	1x
OptraGate regular	1x
Various accessories	

Refill IPS e.max® ZirCAD blocks	

[1] Typical mean value of flexural strength, R&D Ivoclar, Schaan.
[2] Dentin, typical mean value of flexural strength, R&D Ivoclar, Schaan.
[3] At natural lighting conditions. The use of artificially generated UV or UV-like light may result in a different impression.

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Refills

IPS e.max® ZirCAD Zirconium oxide ceramics (ZrO$_2$)										
Shades									**Types of restorations**	
BL or BL1 [1]	A1	A2	A3	B1	B2	C2	D2		Crowns	3-unit bridges

Blocks for CEREC®/inLab®

Translucency level

Size	Quantity
C17	1 x 5 each
B45	1 x 3 each

MT Multi (Medium Translucency)										
Progression of shade and translucency from dentin to incisal is ideally designed for crowns and bridges.										
694517	694521	694522	694523	694526	694527	694531	694534		✓	✓
694537	694541	694542	694543	694546	694547	694551	694554			

Translucency level

C17	1 x 5 each
B45	1 x 3 each

LT (Low Translucency)										
Given their low translucency, LT blocks are ideally suited for posterior crowns or bridges.										
686192	686193	686194	686195	686196	686197	686198	686199		✓	✓
686200	686201	686202	686203	686204	686205	686206	686207			

Translucency level

		MO (Medium Opacity)			
		0	1	2	
C13	1 x 5 each	626589	626590	626591	
C15	1 x 5 each	596825	608450	608451	
C15 L	1 x 5 each	602439	608458	608459	
B40	1 x 3 each	596826	608466	608467	✓
B40 L	1 x 3 each	602442	608474	608475	
B55	1 x 1 each	605453	608482	608483	
B65	1 x 1 each	605461	608490	608491	
B65 L-17	1 x 1 each	605469	608498	608499	
B 85 L-22	1 x 1 each	605471	608506	608507	

(MO row: Crowns ✓ and 3-unit bridges ✓)

Blocks for PlanMill®

Translucency level

C17	1 x 5 each
B45	1 x 3 each

MT Multi (Medium Translucency)										
Progression of shade and translucency from dentin to incisal is ideally designed for crowns and bridges.										
694597	694601	694602	694603	694606	694607	694611	694614		✓	✓
694617	694621	694622	694623	694626	694627	694631	694634			

Translucency level

C17	1 x 5 each
B45	1 x 3 each

LT (Low Translucency)										
Given their low translucency, LT blocks are ideally suited for posterior crowns or bridges.										
686216	686217	686218	686219	686220	686221	686222	686223		✓	✓
686224	686225	686226	686227	686228	686229	686230	686231			

IPS e.max ZirCAD is also available in medium opacity (MO) for crown frameworks and 3- to multiple-unit bridges with a maximum of 2 pontics.

Abbreviations: C = Crown, B = Bridge

[1] MT Multi is available in shade BL1, and LT is available in shade BL.

IPS Empress® CAD

Leucite glass-ceramics

IPS Empress® CAD is associated with over 20 years of successful clinical performance. It closely reproduces the natural tooth structure due to its distinct chameleon effect and lifelike fluorescence.[1]

IPS Empress CAD is known for exceptional esthetics and can be polished to a high gloss quickly and easily: grind – polish – done.

The innovative polychromatic IPS Empress CAD Multi block is a special highlight in this range. The block features a natural progression of shade and fluorescence from dentin to incisal.[1]

Processing options:
After the grinding process, the restorations can be:
– polished
– optionally: stained, glazed

Types of restorations:
– Crowns
– Inlays, onlays, partial crowns
– Veneers

Benefits:
✔ Highly esthetic restorations, efficiently created
✔ Clinically proven ceramic material with a flexural strength of 185 MPa[2]
✔ Optimum adjustment to the natural tooth structure due to the chameleon effect

Block sizes:
– 4 (I10, I12, C14, C14 L)

Translucency levels:
– 2 and Multi block (HT – High Translucency, LT – Low Translucency)

Shades:
– Comprehensive range of shades: available in A–D and BL shades (the range of shades varies depending on the translucency level and block size) see page 75

Authorized CAD/CAM systems:
✔ **Ivoclar:**
    – PrograMill® PM3 / PM5 / PM7 / One
    – Zenotec® select hybrid
✔ **Amann Girrbach:**
    – ceramill® motion 2 / motion 3 /drs
    – ceramill® matik
✔ **Planmeca:**
    – PlanMill® 30 S / 40 /40 S
✔ **Dentsply Sirona:**
    – inLab® MC XL / MC X5
    – CEREC® MC / MC X / MC XL / Primemill

Delivery forms

Refill IPS Empress® CAD blocks	see p. 73

[1] At natural lighting conditions. LED-generated UV or UV-like light may result in a different impression.
[2] Average biaxial flexural strength; outcome after more than 10 years of ongoing quality testing, R&D Ivoclar, Schaan.

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Refills

IPS Empress® CAD
Leucite glass-ceramics

	Shades													Types of restorations			
	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns

Blocks for CEREC®/inLab®

Multi — Natural progression of shade, translucency and fluorescence[1]

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
I12	1 x 5 each	607681		607682		602592	602593	602594	602595	602596								
C14	1 x 5 each	607683		607684		602598	602599	602600	602601	602602					✓		✓	✓
C14 L	1 x 5 each	607672		607673		602604	602605	602606	602607	602608								

HT (High Translucency) — Higher translucency and chameleon effect, lower brightness value

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
I10	1 x 5 each					602510	602511	602512	602513	602514	602515	602516	602517	602518	✓	✓		
I12	1 x 5 each					602520	602521	602522	602523	602524	602525	602526	602527	602528				

LT (Low Translucency) — Lower translucency and chameleon effect, higher brightness value

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
I12	1 x 5 each	602582	602583	602584	602585	602557	602558	602559	602560	602561	602562	602563	602564	602565	✓		✓	✓
C14	1 x 5 each	602587	602588	602589	602590	602567	602568	602569	602570	602571	602572	602573	602574	602575				
	1x	Shade guide HT/LT (autoclavable) 603418																

Blocks for PlanMill®

Multi — Natural progression of shade, translucency and fluorescence[1]

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
I12	1 x 5 each	665755		665756		665740	665741	665742	665743	665744								
C14	1 x 5 each	665757		665758		665745	665746	665747	665748	665749					✓		✓	✓
C14 L	1 x 5 each	665759		665760		665750	665751	665752	665753	665754								

HT (High Translucency) — Higher translucency and chameleon effect, lower brightness value

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
I10	1 x 5 each					665678	665679	665680	665681	665682	665683	665684	665685	665686	✓	✓		
I12	1 x 5 each					665689	665690	665691	665692	665693	665694	665695	665696	665697				

LT (Low Translucency) — Lower translucency and chameleon effect, higher brightness value

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
I12	1 x 5 each	665732	665733	665734	665735	665710	665711	665712	665713	665714	665715	665716	665717	665718	✓		✓	✓
C14	1 x 5 each	665736	665737	665738	665739	665719	665720	665721	665722	665723	665724	665725	665726	665727				
	1x	Shade guide HT/LT (autoclavable) 603418																

Blocks for PrograMill®

Multi — Natural progression of shade, translucency and fluorescence[1]

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
C14 L	1 x 5 each	686498		686499		686500	686501	686502	686503	686504					✓		✓	✓

HT (High Translucency) — Higher translucency and chameleon effect, lower brightness value

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
I12	1 x 5 each					686476	686477	686478	686479	686480	686481	686482	686483	686484	✓	✓		

LT (Low Translucency) — Lower translucency and chameleon effect, higher brightness value

Size	Quantity	BL1	BL2	BL3	BL4	A1	A2	A3	A3.5	B1	B2	B3	C2	D3	Veneers	Inlays, onlays	Partial crowns	Crowns
C14	1 x 5 each	686485	686486	686487	686488	686489	686490	686491	686492	686493	686494	686495	686496	686497	✓		✓	✓
	1x	Shade guide HT/LT (autoclavable) 603418																

Abbreviations: I = Inlay, C = Crown

Tetric® CAD

Composite

Tetric CAD is an esthetic composite block for the efficient fabrication of single-tooth restorations (flexural strength: 272 MPa[1]).

Due to the pronounced chameleon effect, Tetric CAD restorations blend in with the residual tooth structure in an optically pleasing manner.[2]

The restoration is polished after milling and then seated using an adhesive cementation protocol. This processing technique is very efficient and leads to an esthetic result quickly and easily.

Processing options:
After the grinding process, the restorations can be:
– polished
– optionally: characterized

Types of restorations:
– Veneers
– Inlays
– Onlays (e.g. occlusal veneers, partial crowns)
– Crowns

Benefits:
✔ Natural integration into the oral environment due to the unique chameleon effect[2]
✔ Excellent polishability and intraoral repairability
✔ Easy and efficient processing
✔ Stability in limited layer thicknesses; restorations with thinly tapered margins possible
✔ Durable bond due to coordinated luting system

Block sizes:
– C14

Translucency levels:
– 2 (HT – High Translucency, MT – Medium Translucency)

Shades:
– 5 (BL, A1, A2, A3, A3.5; the shade offering varies, depending on the translucency level)

Authorized CAD/CAM systems:
✔ **Ivoclar:**
  – PrograMill® PM3 / PM5 / PM7 / One
  – Zenotec® select hybrid
✔ **Amann Girrbach:**
  – ceramill® motion 2 / motion 3 /drs
  – ceramill® matik
✔ **Planmeca:**
  – PlanMill® 30 S / 40 /40 S
✔ **Dentsply Sirona:**
  – inLab® MC XL / MC X5
  – CEREC® MC / MC X / MC XL / Primemill

Delivery forms

Tetric® CAD for CEREC®/inLab® Starter Kit	686283
HT block C14, shades: A1, A2, A3	1 x 2 blocks each
MT block C14, shades: A1, A2, A3	1 x 1 block
Variolink Esthetic DC, neutral	1 x 2.5 g
Adhese Universal VivaPen	1 x 0.5 ml
OptraGloss test pack	1x
Various accessories	

Refill Tetric® CAD blocks	see p. 75

[1] Typical mean value of the biaxial flexural strength, R&D Ivoclar Vivadent AG, Schaan, Liechtenstein

[2] At natural lighting conditions. The use of artificially generated UV or UV-like light may result in a different impression.

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Refills

	Tetric® CAD composite							
	Shades					**Types of restorations**		
	BL	A1	A2	A3	A3.5	Veneers	Inlays, onlays (e.g. partial crowns, occlusal veneers)	Crowns

Blocks for CEREC®/inLab®

		HT (High Translucency)							
Translucency level		Higher translucency and chameleon effect, lower brightness value							
Size	Quantity	BL	A1	A2	A3	A3.5	Veneers	Inlays, onlays	Crowns
C14	1 x 5 each		692148	692149	692150	692151	✓	✓	

		MT (Medium Translucency)							
Translucency level		Lower translucency and chameleon effect, higher brightness value							
C14	1 x 5 each	692156	692152	692153	692154	692155	✓		✓

Blocks for PlanMill®

		HT (High Translucency)							
Translucency level		Higher translucency and chameleon effect, lower brightness value							
Size	Quantity	BL	A1	A2	A3	A3.5	Veneers	Inlays, onlays	Crowns
C14	1 x 5 each		692167	692168	692169	692170	✓	✓	

		MT (Medium Translucency)							
Translucency level		Lower translucency and chameleon effect, higher brightness value							
C14	1 x 5 each	692175	692171	692172	692173	692174	✓		✓

Blocks for PrograMill®

		HT (High Translucency)							
Translucency level		Higher translucency and chameleon effect, lower brightness value							
Size	Quantity	BL	A1	A2	A3	A3.5	Veneers	Inlays, onlays	Crowns
C14	1 x 5 each		692186	692187	692188	692189	✓	✓	

		MT (Medium Translucency)							
Translucency level		Lower translucency and chameleon effect, higher brightness value							
C14	1 x 5 each	692194	692190	692191	692192	692193	✓		✓

Abbreviations: I = Inlay, C = Crown

Telio® CAD

Cross-linked PMMA material

Telio CAD are cross-linked PMMA blocks for the efficient fabrication of long-term temporaries (flexural strength: 135 MPa[1]).

As a result of an optimized manufacturing process, the restorations feature a smooth surface that can be quickly and efficiently polished.

Processing options:
After the milling process, the restorations can be
– polished
– optionally: characterized

Types of restorations:
– Temporary crowns
– Temporary bridges with up to two connected pontics
– Implant-supported temporary hybrid abutment crowns

Benefits:
✔ High material homogeneity and process reliability result in fewer mixing errors and air entrapments compared with conventional methods
✔ Durable shade stability and lifelike fluorescence[2]
✔ Excellent polishability
✔ Economical fabrication of temporaries

Block sizes:
– 3 (A16, B40 L, B55)

Translucency levels:
– 1 (LT – Low Translucency)

Shades:
– 9 (BL3, A1, A2, A3, A3.5, B1, B3, C2, D2)

Authorized CAD/CAM systems:
✔ **Planmeca:**
  – PlanMill® 30 S / 40 /40 S
✔ **Dentsply Sirona:**
  – inLab® MC XL
  – CEREC® MC X / MC XL / Primemill

Delivery forms

Refill Telio® CAD blocks	

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[1] Typical mean value of biaxial flexural strength, R&D Ivoclar, Schaan.
[2] At natural lighting conditions. LED-generated UV or UV-like light may result in a different impression.
[3] With up to two connected pontics

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Refills

Telio® CAD Cross-linked PMMA material												
Shades										Types of restorations		
BL3	A1	A2	A3	A3.5	B1	B3	C2	D2		Crowns	Temporary bridges[1]	Temporary hybrid abutment crowns

Blocks for CEREC®/inLab®

Translucency level		LT (Low Translucency)											
Size	Quantity	Restorations made from LT blocks impress with their lifelike brightness value and chroma.[2]											
A16 (S)	1 x 3 each	665518	665519	665520	665521	665522	665523	684501	684502	684503			✔
A16 (L)	1 x 3 each	665524	665525	665526	665527	665528	665529	684504	684505	684506			✔
B40 L	1 x 3 each	627718	627719	627720	627721	627722	627723	684489	684490	684491	✔	✔	
B40 L	1 x 9 each	627726	627727	627728	627729	627730	627731	684492	684493	684494	✔	✔	
B55	1 x 3 each	627824	627825	627826	627827	627828	627829	684498	684499	684500	✔	✔	

Blocks for PlanMill®

Translucency level		LT (Low Translucency)											
Size	Quantity	Restorations made from LT blocks impress with their lifelike brightness value and chroma.[2]											
A16 (SD)	1 x 3 each	684340	684341	684342	684363	684364	684365	684366	684367	684368			✔
A16 (MD)	1 x 3 each	684369	684370	684371	684372	684373	684374	684375	684376	684377			✔
B40 L	1 x 3 each	665612	665613	665614	665615	665616	665617	684477	684478	684479	✔	✔	
B40 L	1 x 9 each	665618	665619	665620	665621	665622	665623	684480	684481	684482	✔	✔	
B55	1 x 3 each	665606	665607	665608	665609	665610	665611	684486	684487	684488	✔	✔	

Abbreviations: B = Bridge, A = Abutment, (S or SD) and (L or MD) = Interface size

Implant prosthetics

From temporary to permanent restoration

The IPS e.max® CAD and Telio® CAD blocks feature a pre-fabricated interface to facilitate direct cementation to a titanium bonding base. So, implant-supported hybrid abutments and hybrid abutment crowns can be created at chairside using clinically proven products[1–4].

Cementation is achieved with the self-curing Multilink® Hybrid Abutment luting composite.

Types of restorations:

– **Telio CAD**
  Implant-supported temporary hybrid abutment crowns
– **IPS e.max CAD**
  Implant-supported hybrid solutions (hybrid abutments, hybrid abutment crowns)[4]

Benefits:

– **Telio CAD**
  ✔ Straightforward design of the emergence profile[3, 5]
  ✔ Visualization of the permanent prosthetic solution

– **IPS e.max CAD**[4]
  ✔ Esthetic restoration due to tooth-coloured hybrid abutments
  ✔ Hybrid abutment crown (2-in-1) offers functionality and efficiency[1, 3]
  ✔ Good biocompatibility with oral soft tissues[1]

Block sizes:

– 2 (A14 and A16) and 2 interface sizes

Translucency levels:

– 2 (LT – Low Translucency and MO[4] – Medium Opacity)

Shades[4]:

– 9 (Telio CAD LT: BL3, A1, A2, A3, A3,5, B1, B3, C2, D2)
– 10 (IPS e.max CAD LT: BL2, A1, A2, A3, A3,5, B1, B2, C1, C2, D2)
– 5 (IPS e.max CAD MO: 0, 1, 2, 3, 4)

Authorized CAD/CAM systems:

✔ **Planmeca:**
  – PlanMill® 40 S
✔ **Dentsply Sirona:**
  – inLab® MC XL / MC X5
  – CEREC® MC X / MC XL / Primemill

Hybrid abutment crown   Hybrid abutment crown   Hybrid abutment[4]
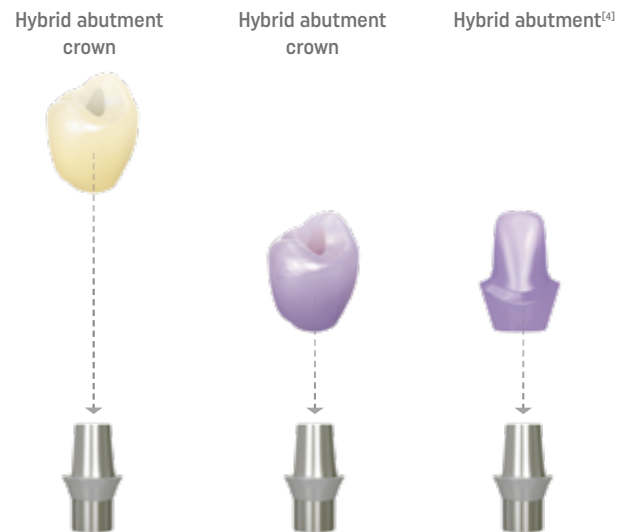
Delivery forms

Abutment Solutions for CEREC®/inLab® Starter Kit	691203
IPS e.max CAD A14 (L), shade: MO 1	1 x 5 blocks
IPS e.max CAD A14 (L), shade: LT A2	1 x 5 blocks
IPS e.max CAD A16 (L), shade: LT A2	1 x 5 blocks
Telio CAD A16 (L), shade: LT A2	1 x 3 blocks
Multilink Hybrid Abutment	1 x 9 g
Liquid Strip	1 x 2.5 g
Monobond Etch & Prime	1 x 5 g
SR Connect	1 x 5 ml
Virtual Extra Light Body	1 x 50 ml
Various accessories	

Refill IPS e.max® CAD blocks	See pp. 63–69
Refill Telio® CAD blocks	See p. 76

[1] De Angelis P et al., J. Prosthet. Dent. 2019, 123, 252-256.
[2] Zhang Y et al, Clin. Oral Implant. Res. 2019, 30, 1059-1066.
[3] Çömlěkoglu M. E et al, Clin. Oral Investig. 2017, 2018, 22, 475-486.
[4] Varies, depending on the CAD/CAM system being used.
[5] Kurbad A, Int. J. Comput. Dent. 2014, 17, 239-251.

CEREC®, inLab®, PlanMill® und ceramill® are not registered trademarks of Ivoclar Vivadent AG.

Multilink® Hybrid Abutment

Multilink® Hybrid Abutment is a self-curing luting composite for the permanent cementation of lithium disilicate (LS_2) glass-ceramic and zirconium oxide ceramic structures on implant sleeves made of titanium/titanium alloy and zirconium oxide.

Area of application:
Extraoral cementation of lithium disilicate (LS_2) glass-ceramic and zirconium oxide ceramic structures (abutment and abutment crowns) on implant sleeves made of titanium/titanium alloy and zirconium oxide.

Benefits:
✔ High bonding strength for a reliable cementation
✔ Straightforward handling due to the convenient automix syringe

Shades:
HO 0
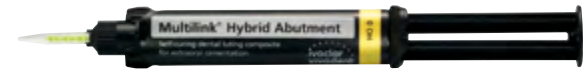
HO 0

Delivery forms

Multilink® Hybrid Abutment Starter Kit		662810
Multilink Hybrid Abutment syringe HO 0	1 x 2.5 g	
Mixing tips	4x	
Monobond Plus	1 x 1 g	
Mixing pad	1x	
Various accessories		
Refill		
Multilink Hybrid Abutment syringe	1 x 9 g	
Mixing tips	15x	
Various accessories		
HO 0		647182

Monobond® Plus

Universal, single-component bonding agent for all indirect restorative materials.

Area of application:
Single-component bonding agent for all indirect restorative materials (glass-ceramics, oxide ceramics, metal, composites, fibre-reinforced composites). The product generates a sound bond between the restoration and the cementation material.

Delivery forms

Refill	1 x 5 g	626221

Authorized CAD/CAM chairside grinding and milling units for Ivoclar CAD/CAM materials

The quality mark "Authorized for IPS e.max®" certifies that all the materials, devices and processes are validated and fully coordinated with each other. The result: Restorations of exceptional quality and precision.

Our cooperation partners are:

Authorized for IPS e.max®

ivoclar

Manufacturer of CAD/CAM units	System		IPS e.max® CAD			
			Inlays, onlays, veneers and crowns	Three-unit bridges[2]	Implant-supported hybrid abutments	Implant-hybrid a cr
Dentsply Sirona	CEREC® MC[4]	1 block up to 20 mm	◼			
	CEREC® MC X[4,5]	1 block up to 55 mm	◼	◼	◼	◼
	CEREC® MC XL[4]	1 block up to 85 mm	◼	◼	◼	◼
	CEREC® Primemill	1 block up to 70 mm	◼	◼	◼	◼
PLANMECA	PlanMill® 30 S	1 block up to 85 mm	◼	◼		
	PlanMill® 40	1 block up to 55 mm	◼	◼		
	PlanMill® 40 S	1 block up to 85 mm	◼	◼		◼
AMANNGIRRBACH	ceramill® motion drs	1 block up to 55 mm	◼	◼		

[1] The range of products may vary from country to country.
[2] Up to the second premolar as the terminal abutment
[3] With up to two connected pontics
[4] Wet Milling is possible with new machines since 2013, or with older machines after retrofitting. Dry Milling is possible with construction years
[5] B45 (IPS e.max ZirCAD) and B55 (Telio CAD) blocks are possible as of CEREC SW 5.1.3 (Jan. 2021)

...supported abutment ...owns	IPS e.max® ZirCAD		IPS Empress® CAD	Tetric® CAD	Telio® CAD	
	Crowns	Three-unit bridges	Inlays, onlays, veneers and crowns	Inlays, onlays, veneers and crowns	Temporary crowns and bridges[3]	Implant-supported hybrid abutment crowns
	●		●	●		
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
	●	●	●	●	●	
	●	●	●	●	●	
●	●	●	●	●	●	●
			●	●		

2016 and higher. No retrofitting of older machines.

Accessories

IPS® Object Fix Flow / IPS® Object Putty

Auxiliary firing pastes with varying viscosity to support all-ceramic restorations (especially IPS e.max® CAD) during firing and crystallization. The pastes are used to stabilize and secure the restorations on the silicon nitride support pins or directly on the silicon nitride firing tray. The pastes are easy to apply and remove after the firing procedure.

Delivery forms

IPS® Object Fix Flow	1 x 10 ml	605525
IPS® Object Fix Putty	1 x 10 g	605526

IPS e.max® CAD Crystallization Tray / IPS Speed Tray

The IPS e.max® CAD Crystallization Tray is a firing tray for the crystallization of IPS e.max CAD restorations as well as for the stains and/or glaze firing of IPS Empress® CAD, IPS e.max CAD and IPS e.max ZirCAD restorations with the IPS e.max CAD Crystall./materials.

The IPS Speed Tray is required for the speed crystallization of IPS e.max CAD.

To carry out the firing, the restorations are placed on the IPS e.max CAD Crystallization Pins supplied with the tray.
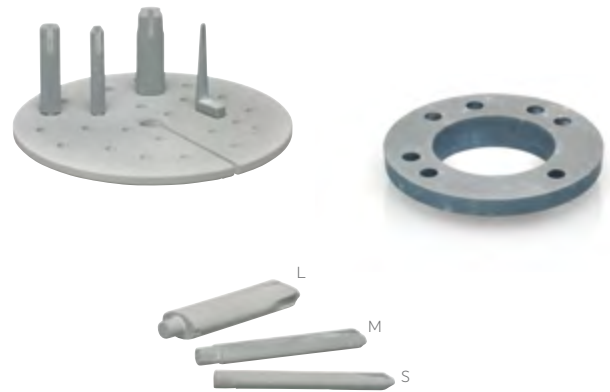
Area of application:
- IPS e.max CAD
- IPS e.max ZirCAD
- IPS Empress CAD

Sizes:
2

Delivery forms

IPS e.max® CAD Crystallization Tray		605367
IPS e.max CAD Crystallisation Tray	1x	
IPS e.max CAD Crystallization Pin (sizes: S, M, L)	3 x each	
IPS Speed Tray		746355
IPS Speed Tray	1x	
IPS e.max CAD Crystallization Pin (sizes: S, M, L)	1 x each	
IPS e.max® CAD Crystallization Pin Refill		
S, M/ L	6 x each	605368
XS	3x	656105

SR® Connect

SR® Connect is a methyl methacrylate (MMA)-based liquid for extraoral use.

Types of restorations:
Light-curing conditioner to activate the internal surfaces of restorations made from Telio® CAD Abutment Solutions blocks.

Benefit:
Allows for the proper bonding of the Telio CAD restoration to the titanium base with Multilink Hybrid Abutment cement.

Delivery forms

SR® Connect	1 x 5 ml	642236

All-Ceramic Preparation Guide

The three-dimensional preparation models help visualize the proper preparation of the teeth for all-ceramic restorations. In addition, the model shows the minimum preparation requirements and the indications of IPS Empress® and IPS e.max® restorations. The demonstration model comes with an illustrated booklet which features the preparation recommendations. The booklet is also available separately.

Delivery forms

All-Ceramic Preparation Guide Edition II (demonstration model)	630548
All-ceramic preparation guidelines (German/English)	631797

Universal stains and glazes

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

Universal range of stains and glazes

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

The glazing paste is available as a variant with and without a fluorescent effect[1].

Minor corrections (e.g. proximal contact areas) can be applied to IPS e.max CAD and IPS e.max ZirCAD restorations using IPS e.max CAD Crystall./Add-On.

Types of restorations:
– IPS e.max CAD
– IPS e.max ZirCAD
– IPS Empress CAD

Benefits:
✔ Reduced stock, lower costs – a single range suitable for all CAD/CAM chairside ceramics from Ivoclar
✔ Familiar application methods and consistently high quality
✔ Glazing paste with and without a fluorescent effect [1]
✔ Possibility of making corrections (e.g. proximal contact areas) using Add-On material

Shades:
– 7 shades (0, 1, 2, 3, 4, Incisal 1, Incisal 2)
– 7 stains (white, cream, sunset, copper, olive, khaki, mahogany)

[1] At natural lighting conditions. LED-generated UV or UV-like light may result in a different impression.

Delivery forms

IPS e.max® CAD Characterization Kit		688805
IPS e.max CAD Crystall./Shade, shades: 1, 2, I1, I2	1 x 3 g each	
IPS e.max CAD Crystall./Stains, shades: white, sunset, khaki, mahogany	1 x 1 g each	
IPS e.max CAD Crystall./Glaze Paste Fluo	1 x 3 g	
IPS e.max CAD Crystall./Glaze Spray	1 x 120 ml	
IPS e.max CAD Crystall./Glaze Liquid	1 x 15 ml	
IPS e.max CAD Crystall./Add-On Incisal	1 x 5 g	
IPS e.max CAD Crystall./Add-On Liquid allround	1 x 15 ml	
IPS e.max CAD Crystallization Tray	1x	
IPS Speed Tray	1x	
Various accessories		

Tweezers

For easier handling during staining and glazing.

Delivery forms

Tweezers	554069

Universal range of stains and glazes
IPS e.max® CAD Crystall./

	Quantity	Shades						
IPS e.max® CAD Crystall./Shades Dentin stains in paste form	1 x 3 g	0 605348	1 605349	2 605350	3 605351	4 605352	Incisal 1 605353	Incisal 2 605354
IPS e.max® CAD Crystall./Stains Intensive stains in paste form	1 x 1 g	white 605356	cream 605357	sunset 605358	copper 605359	olive 605360	khaki 605361	mahogany 605362
IPS e.max® CAD Crystall./Glaze Paste Glazing paste	1 x 3 g	605363						
IPS e.max® CAD Crystall./Glaze Paste FLUO Glazing paste with fluorescent effect[2]	1 x 3 g	674676						
IPS e.max® CAD Crystall./Glaze Liquid	1 x 15 ml	605366						
IPS e.max® CAD Crystall./Glaze Spray Glazing spray	120 ml	605364						
IPS e.max® CAD Crystall./Add-On For minor corrections (e.g. proximal contact areas)	1 x 5 g	Incisal 605365	Dentin 635549					
IPS e.max® CAD Crystall./Add-On Liquid	1 x 15 ml	allround 605569						
IPS Empress® Add-On 770 °C / 1418 °F For minor corrections (e.g. proximal contact areas)	1 x 20 g	564080						
IPS build-up liquid allround For mixing IPS Empress Add-On 770 °C / 1418 °F	1 x 60 ml	673375						

[1] Vacuum required
[2] At natural lighting conditions. LED-generated UV or UV-like light may result in a different impression.

IPS e.max® CAD	IPS e.max® ZirCAD	IPS Empress® CAD
Lithium disilicate glass-ceramics (LS_2)	Zirkonium oxide ceramics (ZrO_2)	Leucite glass-ceramics
✔	✔	✔
✔	✔	✔
✔	✔	✔
✔ [1]	✔ [1]	–
–	–	✔ [1]

Cementation

Variolink® Esthetic

Variolink® Esthetic is a versatile and esthetic light- and dual-cure luting composite for the permanent seating of all types of restorations and materials.

Areas of application:

– Variolink Esthetic LC
- Permanent adhesive luting of glass-ceramic, lithium disilicate glass-ceramic and composite restorations (inlays, onlays and veneers).
- Only use Variolink Esthetic LC for restorations with a low thickness of <2mm that have sufficient translucency (e.g. IPS e.max® HT).

– Variolink Esthetic DC
- Permanent adhesive luting of glass-ceramic, lithium disilicate glass-ceramic and composite resin restorations (inlays, onlays, partial crowns, crowns, bridges)
- Restorations made of opaque ceramics, e.g. oxide ceramics, can only be permanently cemented if an adhesive that is separately light-cured is additionally used.

Benefits:
✓ Straightforward Effect shade range
✓ Proven and reliable shade stability[1]
✓ Easy excess removal[2]
✓ Flexible, situational consistency[2] – ideal combination of flowability and stability
✓ Ideal bonding to the dental hard tissue with Adhese® Universal[3–5]
✓ Reliable bonding to the restoration with Monobond® Plus[4, 5, 6]

Shades:
Light+, Light, Neutral, Warm, Warm+

| Light+ | Light | Neutral | Warm | Warm+ |
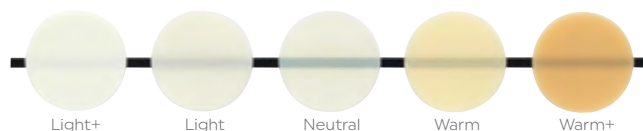
Delivery forms

Variolink® Esthetic LC System Kit

Variolink Esthetic LC in 3 shades	3 x 2 g
Variolink Esthetic Try-In Paste in 3 shades	3 x 1.7 g
Total Etch	1 x 2 g
Adhese Universal in the VivaPen or bottle	1 x 2 ml
or	1 x 5 g
Monobond Plus	1 x 5 g
Liquid Strip	1 x 2.5 g
VivaPen brush cannulas	30x
VivaPen protective sleeves	20x
Variolink application tips	20x
Brush holder	1x
Brushes, soft	50x
Var. accessories	
Adhese® Universal VivaPen®	666433WW
Adhese® Universal Bottle	666065WW

Variolink® Esthetic DC System Kit

Variolink Esthetic DC in 3 shades	3 x 5 g
Variolink Esthetic Try-In Paste in 3 shades	3 x 1.7 g
Total Etch	1 x 2 g
Adhese Universal in the VivaPen or bottle	1 x 2 ml
or	1 x 5 g
Monobond Plus	1 x 5 g
Liquid Strip	1 x 2.5 g
VivaPen brush cannulas	30x
VivaPen protective sleeves	20x
Mixing tips	30x
Variolink application tips	5x
Brush holder	1x
Brushes, soft	50x
Var. accessories	
Adhese® Universal VivaPen®	666434WW
Adhese® Universal Bottle	666125WW

Variolink® Esthetic LC System Kit for IPS e.max® & IPS Empress®   681493WW

Variolink Esthetic LC in 3 shades	3 x 2 g
Variolink Esthetic Try-In Paste in 3 shades	1 x 1.7 g
Total Etch	1 x 2 g
Adhese Universal VivaPen	1 x 2 ml
Monobond Etch & Prime	1 x 5 g
Liquid Strip	1 x 2.5 g
VivaPen brush cannulas	30x
VivaPen protective sleeves	20x
Variolink application tips	20x
Vivadent applicators	50x
Var. accessories	

[1] Gianasmidis A, DZW 2016 (38), p. 14–15, additional data on file.
[2] Gianasmidis A, DZW 2016 (39), p. 18–19, additional data on file.
[3] Maassen, et al, J.Prosthet Dent, 2021, p. 182-188.
[4] Aslan Y U et al., Eur J Prosthodont Restor Dent, 2019 (27), p. 131-140.
[5] Elsayed A et al., IADR Abstract #2657, 2017.
[6] Lyann S K et al., J Adhes Dent, 2018 (20), p. 261-268.

Variolink® Esthetic DC System Kit for IPS e.max® & IPS Empres®   681492WW

Variolink Esthetic DC in 3 shades	3 x 5 g
Variolink Esthetic Try-In Paste in 3 shades	3 x 1.7 g
Total Etch	1 x 2 g
Adhese Universal VivaPen	1 x 2 ml
Monobond Etch & Prime	1 x 5 g
Liquid Strip	1 x 2.5 g
VivaPen brush cannulas	30x
VivaPen protective sleeves	20x
Mixing tips	30x
Variolink application tips	20x
Vivadent applicators	50x
Var. accessories	

Variolink® Esthetic DC Starter Kit   687593WW

Variolink Esthetic DC neutral	1 x 2.5 g
Variolink Esthetic Try-In Paste	1 x 1.7 g
Adhese Universal VivaPen	1 x 0.5 ml
Monobond Plus	1 x 1 g
Liquid Strip	1 x 2.5 g
Variolink application tips	5x
VivaPen brush cannulas	10x
VivaPen protective sleeves	20x
Mixing tips	4x
Var. accessories	

Variolink® Esthetic DC Starter Kit for IPS e.max® & IPS Empress®   687592WW

Variolink Esthetic DC neutral	1 x 2.5 g
Variolink Esthetic Try-In Paste	1 x 1.7 g
Adhese Universal VivaPen	1 x 0.5 ml
Monobond Etch & Prime	1 x 1 g
Liquid Strip	1 x 2.5 g
Variolink application tips	5x
VivaPen brush cannulas	10x
VivaPen protective sleeves	20x
Mixing tips	4x
Var. accessories	

Variolink® Esthetic LC Refill

Variolink Esthetic LC	1 x 2 g	
Application tips	5x	
Light+		666126WW
Light		666127WW
Neutral		666128WW
Warm		666129WW
Warm+		666130WW

Variolink® Esthetic DC Refill

Variolink Esthetic DC	1 x 5 g	
Mixing tips	10x	
Light+		666117WW
Light		666118WW
Neutral		666119WW
Warm		666120WW
Warm+		666121WW

Variolink® Esthetic DC Refill

Variolink Esthetic DC	1 x 9 g	
Mixing tips	15x	
Light		666122WW
Neutral		666123WW
Warm		666124WW

Variolink® Esthetic DC Refill of 3

Variolink Esthetic DC	3 x 9 g	
Mixing tips	45x	
Light		692424WW
Neutral		692425WW
Warm		692426WW

Refill Variolink® Esthetic Try-In Paste

Variolink Esthetic Try-In Paste	1 x 1.7 g	
Application tips	5x	
Light+		666067WW
Light		666113WW
Neutral		666114WW
Warm		666115WW
Warm+		666116WW

Mixing tips, short/pointed	15x	645951
Refill mixing tips, short/pointed	10x	683287
Refill Intra Oral Tips small	10x	604210
Refill Variolink® application tips	20x	559224

ZirCAD® Cement[1]

ZirCAD® Cement is a new high performance resin modified glass ionomer cement designed for everyday use. It is ideal for high-strength restorations, especially zirconia. ZirCAD Cement allows the clinician to deliver predictable cementation results case after case with its easy handling and quick clean-up.

Areas of application:
Cementation of restorations based on retentive preparations

– Crowns, bridges, inlays and onlays made of high-strength ceramics
– Metal-based crowns, bridges, inlays and onlays
– Metal, ceramic and glass-fibre reinforced composite posts

Benefits:
✔ Quick and easy clean-up in the gel phase, can be expedited with the optional tack cure
✔ The simple way to cement zirconia and metal-based restorations
✔ Continuous fluoride release
✔ Moisture and acid resistant
✔ Low film thickness for an accurate marginal fit
✔ Single-product cement without primer or conditioner

Delivery forms

Refill ZirCAD® Cement		746963AN
ZirCAD Cement Automix syringe	1 x 8.5 g	
Mixing tips	10x	
Refill mixing tips	10x	747598

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[1] Only avaiable in countries of the European Union, Liechtenstein, Great Britain and Norway

SpeedCEM® Plus

SpeedCEM® Plus is a self-adhesive, self-curing resin cement with optional light-curing. The material offers an ideal combination of performance and user-friendliness. Its formulation has been optimized to make it particularly suitable for use in conjunction with restorations made of zirconium oxide and metal-ceramics and for the cementation of restorations on implant abutments.

Areas of application:

SpeedCEM Plus is suited for the permanent seating of crowns and bridges on natural teeth and on implant abutments that are made of the following restorative materials:

– Oxide ceramics such as zirconium oxide,
  e.g. IPS e.max® ZirCAD
– Metal and metal-based restorations
– Lithium disilicate glass-ceramics, e.g. IPS e.max®

Benefits:

✔ Excellent self-cure performance
✔ User-friendly handling
✔ Easy clean-up
✔ Tolerant processing
✔ High radiopacity
✔ Efficient process

Shades:

Transparent, Yellow, Opaque

| Yellow | Opaque | Transparent |

Delivery forms

Refills		
SpeedCEM Plus Automix syringe	1 x 9 g	
Mixing tips	15x	
Root Canal Tips	5x	
Yellow		**681710**
Opaque		**681711**
Transpa		**681712**

Refills of 3		
SpeedCEM Plus Automix syringe	3 x 9 g	
Mixing tips	45x	
Root Canal Tips	15x	
Yellow		**692423**
Transparent		**692422**

Starter Pack		
SpeedCEM Plus Automix syringe	1 x 2.5 g	
Ivoclean	1 x 1 g	
Mixing tips	4x	
Transparent		**681713**

System Kit		
SpeedCEM Plus Automix syringe	1 x 9 g	
Ivoclean	1 x 5 g	
Mixing tips	15x	
Transparent		**681714**

Refill mixing tips	**15x**	**645951**
Root Canal Tips	**5x**	**645955**

Multilink® Automix

Multilink® Automix is a luting composite for the permanent adhesive cementation of indirect restorations made of silicate and oxide ceramics, metal and metal-ceramics (PFM) and composite resins. Used together with the matching Multilink Primers A and B, the material generates a strong and long-lasting bond to the tooth structure.

Areas of application:
Cementation of indirect restorations (inlays, onlays, crowns, bridges, endodontic posts) made of:

– metal and metal ceramics (PFM)
– all-ceramics (silicate)
– reinforced all-ceramics (zirconium and Al oxide ceramics)
– composites and fibre-reinforced composites (FRC)

Benefits:
✔ Reliable performance in adhesive cementation
✔ Wide range of applications
✔ Varied selection of shades

Shades:
Transparent, Yellow, White, Opaque

Transparent	Yellow	White	Opaque

Delivery forms

System Pack

Multilink Automix syringe	1 x 9 g	
Mixing tips	15x	
Root Canal Tips	5x	
Multilink Primer A/B	2 x 3 g	
Monobond Plus	1 x 5 g	
Liquid Strip	1 x 2.5 g	
Liquid Strip application tips	5x	
Applicators (small and large)	25x each	
Mixing pad	1x	
Mixing plate (for Multilink Primer A+B)	1x	
Var. accessories		
Transparent		627471
Yellow		627473

Refill Multilink® Automix

Multilink Automix syringe	1 x 9 g	
Mixing tips	15x	
Var. accessories		
Transparent		615216
Yellow		615217
Opaque		615218
White		645952

Refill Multilink® Automix Try-In

Multilink Automix Try-In syringe	1 x 1.7 g	
Transparent		645956
Yellow		645957
Opaque		645958
White		645959

Refill Multilink® Primer A/B	2 x 3 g	576825
Refill Multilink® Primer A	1 x 3 g	613626
Refill Multilink® Primer B	1 x 3 g	613627
Refill Monobond® Plus	1 x 5 g	626221
Refill Liquid Strip	1 x 2.5 g	532505
Refill mixing tips	15x	645951
Root Canal Tips (intracanal tips and mixinig tips)	5 x each	645955
Liquid Strip application tips	20x	533666
Refill applicators (25 large, 25 small)	2 x 25	592435

Monobond Etch & Prime®

Monobond Etch & Prime® is a single-component ceramic primer that allows **glass-ceramic surfaces** to be etched and silanated in one easy step.

Areas of application:
Conditioning of glass-ceramic surfaces for the adhesive bond with luting composites

Benefits:
✔ Eliminates the unpopular etching of the glass-ceramic surface with hydrofluoric acid
✔ The glass-ceramic is etched and conditioned in one step
✔ A reliable bond to the adhesive is established

Delivery forms

Refill	1 x 5 g	673026WW

Monobond® Plus

Single-component bonding agent for all indirect restorative materials

Areas of application:
Single-component bonding agent for all indirect restorative materials (glass- and oxide ceramics, metal, composite, fibre-reinforced composite). It generates a sound bond between the restoration and the cementation material.

Delivery forms

Refill	1 x 5 g	626221

Ivoclean®

Universal cleaning paste especially designed for removing contaminants, in particular proteins, from restoration surfaces after intraoral try-in.

Areas of application:
Extraoral cleaning of pre-treated ceramic and metal restoration surfaces

Delivery forms

Refill	1 x 5 g	637568

Liquid Strip

Glycerine gel to prevent the oxygen-inhibited layer of composites when seating composite or ceramic restorations.

Areas of application:
– Try-in paste
– Preventing an inhibited layer with composites
– Protecting the etching pattern of lab-fabricated all-ceramic restorations

Delivery forms

Refill	1 x 2.5 g	532505
Liquid Strip application tips	20x	533666

Cementation Navigation System

The Cementation Navigation System helps you to find the most suitable luting material for almost any cementation problem, irrespective of the substrate: tooth structure or implant abutments.

In addition, CNS shows all the benefits offered by the luting cements from Ivoclar.

Clear and detailed animations give you a comprehensive tour of the procedure, starting with removal of the temporary restoration and ending with topical fluoride application.
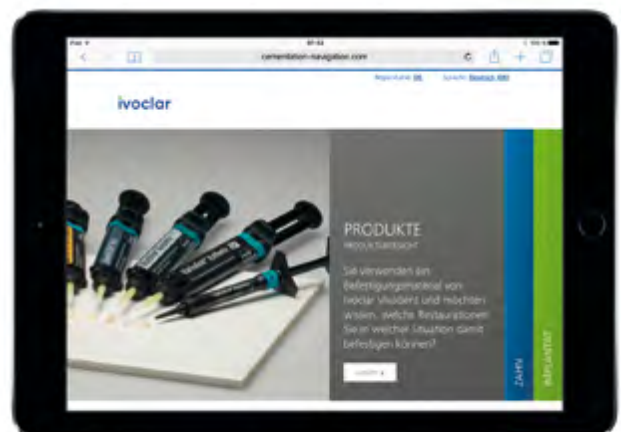
cementation-navigation.com

Ceramic, crystallization and sinter furnaces

Programat® CS2

The Programat® CS2 is the ideal firing and crystallization furnace for dentists. The furnace has been specially developed for the crystallization of IPS e.max® CAD restorations. The Programat CS2 is easily operated by means of the new colour touchscreen display and the proven membrane-sealed keypad. It is furthermore equipped with 20 individual programs as well as predefined Ivoclar programs, such as the Speed program, which crystallizes IPS e.max CAD restorations in less than 15 minutes.

The new and modern operating concept and the QTK2 muffle technology are only two of the many new innovations featured in the Programat CS2. The QTK2 muffle technology ensures an even more homogeneous heat distribution in the firing chamber, leading to optimum firing results and a prolonged life cycle of the heating element. Additionally, the new vacuum pump control system with double valve technology ensures noiseless and power-saving operation of the vacuum pump.

Benefits:

✔ Colour touchscreen in combination with the proven membrane-sealed keypad
✔ QTK2 muffle technology with SiC bottom reflector
✔ Operating concept specially developed for the dental practice
✔ Automatic double-range calibration (ATK2)
✔ Remote diagnostics through the Internet via e-mail and data log files
✔ Software update via USB flash drive
✔ Integrated power-save function (Power-Save Technology)
✔ OSD display
✔ Modern, ergonomic design
✔ Software update via USB flash drive
✔ Modern interfaces (USB, ethernet, SD card reader)
✔ Large cooling tray
✔ Integrated tong holder
✔ 20 individual firing programs
✔ Double-valve vacuum technology
✔ Removable furnace head
✔ Power Fail Save System

Technical data

Voltage	200 – 240 V / 50–60 Hz 110 – 120 V / 50–60 Hz 100 V / 50–60 Hz
Dimensions (closed)	Depth: 465 mm Width: 305 / 410 mm (incl. cooling tray) Height: 320 mm
Usable size of the firing chamber	ø 90 mm Height: 80 mm
Maximum firing temperature	1200 °C

Delivery forms

Programat® CS2	200 – 240 V/50 – 60Hz*	645986

Programat CS2, power cord, vacuum hose, cooling tray, SiC firing plate, Programat Firing Tray Kit, Automatic Temperature Checking Set 2 ATK2 (test set), USB download cable, Programat USB flash drive, extra fuses, display cleaning cloth, tong holder, firing tongs, IPS Speed Tray, var. accessories

* other voltage versions available

Programat® CS6

The Programat® CS6 is a combination furnace for the quick sintering, crystallization and glazing of dental ceramic materials. Due to the innovative firing chamber technology, restorations made of blocks up to size B55 can be processed in a short amount of time. The new opening mechanism optimizes and accelerates the pre-drying process with the warm air rising from the firing chamber and drying the restoration from below. The compact firing chamber and the new opening mechanism substantially reduce the program times for Ivoclar materials, which, in turn, reduces the processing time in the dental office to a minimum.

With the vacuum during the sintering process, which is unique in the dental world, the program times for IPS e.max ZirCAD materials can be clearly shortened. At the same time, the esthetic appearance of the restorations is considerably higher compared to that produced by other chairside furnaces. In addition to pre-installed programs for Ivoclar materials, programs for materials from other manufacturers can also be created easily.

Benefits:

- ✔ Combination furnace for the quick sintering, crystallization and glazing
- ✔ Superspeed crystallization program
- ✔ Vacuum for sintering programs
- ✔ Colour touchscreen in combination with the proven membrane-sealed keypad
- ✔ DSA – Digital Shade Assistant
- ✔ Compact design
- ✔ Temperature calibration on location possible
- ✔ OSD display (optical status display)
- ✔ 30 individual firing programs
- ✔ Programat WLAN kit for wireless data transfer
- ✔ Software update via USB flash drive

Delivery forms

Programat® CS6	110 – 240 V/50 – 60Hz	742087

Programat CS6, power cord, vacuum hose, object tray, IPS Speed Tray, tweezers, Temperature Checking Set Starter Kit, network cable, Short Instructions, Programat WLAN kit, A–D shade guide, DSA holder kit, var. accessories

VP5 vacuum pump

The high-performance VP5 vacuum pump has been especially developed for the Ivoclar ceramic and press furnaces. The pump features a very high delivery rate. In addition, it is characterized by a distinct design and a carrying handle for convenient relocation.

Technical data

Voltage	220 – 240 V / 50 – 60 Hz
	200 V / 50 – 60 Hz
	115 V / 50 – 60 Hz
	100 V / 50 – 60 Hz
Power consumption	80 Watt
Final vacuum	approx. 20 mbar

Delivery forms

VP5 vacuum pump (white)	230 V/ 50–60 Hz*	666308
VP5 vacuum pump	1x	
Sound absorber	1x	
Vacuum Pump Filter Kit	1x	
* other voltage versions available		

VP3 easy vacuum pump

The small and light-weight VP3 easy vacuum pump is suitable for the evacuation of the firing chamber of the Ivoclar ceramic furnaces. This vacuum pump is not suitable for press furnaces.

The VP3 is a diaphragm pump that is characterized by low weight and extremely small dimensions.

Technical data

Voltage	230 V / 50 – 60 Hz
	200 V / 50 – 60 Hz
	115 V / 50 – 60 Hz
Power consumption	70 Watt
Dimensions	W 140 x H 130 x D 210 mm
Final vacuum	approx. 40 mbar

Delivery forms

VP3 easy vacuum pump (grey)	230 V/ 50–60 Hz*	594554
VP3 easy vacuum pump	1x	
Sound absorber	1x	
Vacuum Pump Filter Kit	1x	
* other voltage versions available		

Vacuum Pump Filter Kit

The vacuum pump filter kit protects the vacuum pump from contamination.

Delivery forms

Vacuum Pump Filter Kit		680188
Vacuum Pump Filter Kit	1x	
Vacuum hose 200 mm	1x	

Sinter furnace temperature checking set MTH (1500 °C)

10 sinter rings to check the exact sintering temperature of the Programat CS6.

Delivery forms

Refill sinter furnace temperature checking set MTH (1500 °C/2732 °F)	627398
Sinter rings	10x
Conversion table	1x

Sinter furnace temperature checking set UTH (880°C)

10 sinter rings to check the exact sintering temperature of the Programat CS6.

Delivery forms

Refill sinter furnace temperature checking set UTH (880 °C)	688632
Sinter rings	10x
Conversion table	1x

Sinter furnace temperature checking set starter kit

The temperature checking set starter kit comprises all the components necessary to check and calibrate the sinter temperature of the Programat® S1, Programat S1 1600 and Programat S2.

Delivery forms

Sinter furnace temperature checking set, starter kit	627380
Sliding caliper	1x
Sinter ring	5x
Conversion table	1x

Programat® calibration measuring aid

The Programat® calibration measuring aid supports users in measuring the control rings and provides them with a reliable measuring result as a basis for the furnace calibration.

Delivery forms

Programat® calibration measuring aid	1x	752035

Programat® CS6 object tray

On the object tray of the Programat® CS6, restorations are placed in the firing chamber. The tray is also used for cooling down zirconia restorations outside the firing chamber.

Delivery forms

Programat® CS6 object tray	1x	746379

Programat® CS6 tweezers

The special tweezers with the ceramic tips are used to load the furnace.

Delivery forms

Programat® CS6 tweezers	1x	749897

Automatic Temperature Checking Set ATK 2

The Automatic Temperature Checking set ATK2 is used to check and adjust the firing temperatures in furnaces with automatic calibration programs for the ATK2 system (e.g. Programat® P500, P510, P700, P710, CS, CS2, CS3, EP 3000, EP 3010, EP 5000, EP 5010 including Programat G2 devices).

The simultaneous double-range calibration is a special feature of the ATK2.

Delivery forms

Automatic Temperature Checking Set ATK 2		598833
ATK2 sample	5x	

Firing tongs

These firing tongs are used to place objects in the firing chamber. High precision and excellent material quality are the special features of these tongs.

Delivery forms

Firing tongs	1x	530665

Digital Shade Assistant starter kit

The Digital Shade Assistant starter kit is designed specifically to help users get started in digital shade selection and includes the components required for this. The Digital Shade Assistant holder provides convenient placement of the shade guide teeth.

Delivery forms

Digital Shade starter kit		679917
Digital Shade Assistant holder	3x	
A–D shade guide	1x	

Digital Shade Assistant holder kit

The Digital Shade Assistant holder provides placement of the shade guide teeth for the DSA function.

Delivery forms

Digital Shade Assistant holder kit		679916
Digital Shade Assistant holder	2x	

Temporary restorations

Telio® Link

Dual-curing, translucent, temporary composite cement for the esthetic and provisional cementation of temporary restorations.

Areas of application:
Temporary cementation of provisionals:
– Crowns and bridges
– Inlays and onlays
– Veneers

Benefits:
✔ Eugenolf-free
✔ Dual-curing
✔ High esthetics due to two translucent shades
✔ Ideal retention behaviour
✔ Easy handling due to the automix double-push syringe

Shades:
A3 and Transparent

Delivery forms

Refill Telio® Link		2 x 6 g	
Double-push syringe, 1:1, var. accessories			
A3			701957
Transparent			701958
Refill mixing tips		50x	645951

Telio® Desensitizer

A clear solution for application onto dentin for reducing and preventing dentinal hypersensitivity and post-operative sensitivity.

Areas of application:
Prevention and reduction of dentinal hypersensitivity and post-operative sensitivity for the following fields of application:
– Temporary restorations
– Luting/cementation of indirect restorations
– Direct restorative treatment

Benefits:
✔ Total working time of 10 seconds; no light-curing required
✔ License for treatment planning and material selection; no interaction with the materials used in the further treatment steps
✔ Reduction of dentinal hypersensitivity and post-operative sensitivities
✔ Cleaning of cut dentin surfaces

Delivery forms

Refill Telio® Desensitizer			
Bottle		1 x 5 g	701959
Single Dose unit		1 x 0.1 g	701960

Telio® Inlay

Telio® Inlay is a light-curing, single-component temporary restorative material.

Areas of application:
– Deep inlay preparations with parallel walls
– Reversible obturation of screw access holes in implant superstructures

Benefits:
✔ Light-curing, single-component material
✔ Quick and easy application, removal in one piece
✔ No additional temporary cement or adhesive required
✔ Bonds to the tooth but does not stick to the instrument
✔ Demonstrates low polymerization shrinkage
✔ Seals tooth cavities effectively and shows no discolouration
✔ Available in two different shades and presentations (syringes and Cavifils)

Shades:

Transparent and Universal

Delivery forms

Refill Telio® Inlay syringe	3 x 2.5 g	
Universal		701261
Transparent		701265
Refill Telio® Inlay Cavifil	**30 x 0.25 g**	
Universal		701263
Transparent		701267

Telio® Onlay

Telio® Onlay is a light-curing, single-component temporary restorative material.

Areas of application:
– Wide, shallow cavities with few retentive areas, such as onlay preparations
– Reversible obturation of screw access holes in implant superstructures

Benefits:
✔ Light-curing, single-component material
✔ Quick and easy application, removal in one piece
✔ No additional temporary cement or adhesive required
✔ Bonds to the tooth but does not stick to the instrument
✔ Demonstrates low polymerization shrinkage
✔ Seals tooth cavities effectively and shows no discolouration
✔ Available in two different shades and presentations (syringes and Cavifils)

Shades:

Transparent and Universal

Delivery forms

Refill Telio® Onlay syringe	3 x 2.5 g	
Universal		701266
Transparent		701262
Refill Telio® Inlay Cavifil	**30 x 0.25 g**	
Universal		701268
Transparent		701264

Core build-up materials

MultiCore® Flow

Self-curing composite core build-up material with light-curing option.

Two curing methods and four shades provide an optimum foundation for the reconstruction of vital and non-vital teeth with part or most of the clinical crown missing.

Indications:
Core build-up of vital and non-vital teeth

Benefits:
✔ Based on Ivoclar's long-term experience in the field of composite technology
✔ A suitable option for every case: self- or light-curing
✔ Four different shades

Shades:
Light, medium, blue and white

Delivery forms

Refill MultiCore® Flow Automix syringe	1 x 10 g	
Var. accessories		
Light		604166
Medium		604167
White		604168
Mixing Tips small	10x	683287
Intra Oral Tips small	10x	604210
Root Canal Tips/Mixing Tips	5x each	645955
Refill MultiCore® Flow cartridge	1 x 50 g	
Var. accessories		
Light		578913
Medium		578914
Blue		578915
Dispenser	1x	579094
Mixing Tips	50x	579096
Intra Oral Tips	50x	579095

Services

Service+

Service+ is an outsourcing partner for every laboratory and offers products and services for the dental CAD/CAM world of Ivoclar. With a focus on scanning and design, Service+ provides support for dental laboratories in this time of increasing digitization.

The production or order of self-designed restorations made from Ivoclar digital materials is possible for all laboratory customers (requirement: open STL data). Our product portfolio covers fixed, removable and implant prosthetics.

The products and services of Service+ allow the level of investment and CAD/CAM equipment utilization to be ideally tailored to the specific needs of the lab.

The outsourcing partner for your lab

Service+ supports you in your everyday lab work with products and services whenever needed. We provide you with easy access to the world of dental CAD/CAM from Ivoclar and offer you a versatile field of applications and a wide range of materials and milling services as well as a back-up service for your PrograMill unit in the case of maintenance work.

Service+ Back-up

Investing in a PrograMill milling machine can increase the lab's efficiency and profitability. Service+ Back-up provides the reliability needed for successful production. Digital manufacturing jobs can be seamlessly transferred in the case of maintenance or repair work. The milling centre will handle the digital production of your restorations until your PrograMill is back up and running again.

CAD/CAM system	Scanning	Design	Fixed prosthetics		
			Inlay, onlay, veneer, crown	3-unit bridge	Multi-unit bridge

Service+ Back-up

PrograMill PM7/PM5/PM3

PrograScan PS5/PS3

100% Outsourcing

Inhouse Outsourcing
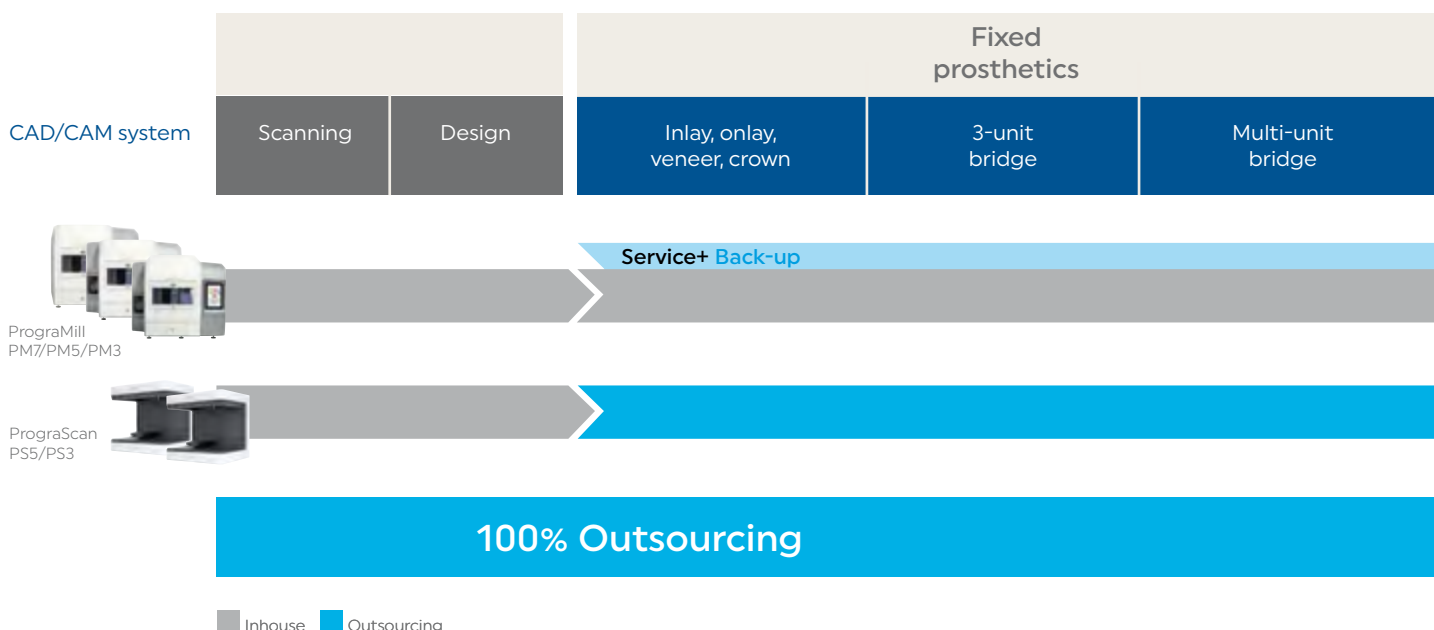
Service+ Production

Service+ Production is designed for all dental labs that are already using their own scanning devices and design software. Labs using design software from 3Shape, DWOS or exocad will be able to take advantage of a comprehensive range of materials and applications for fixed, removable and implant-supported prosthetics. Labs using their own CAD/CAM equipment can enhance the economic efficiency of their own production facilities by having e.g. complex restorations manufactured with the help of Service+.

Service+ Design & Production

Service+ Design & Production provides you easy access to the digital applications of Ivoclar. Forward your models and/or wax-ups or scans (open STL data format) to a Service+ centre. The milling centre will then digitize all information, design the restoration and manufacture it using the specified materials. You will be able to benefit from the extensive experience of our CAD/CAM specialists. This is particularly beneficial when implant-supported or complex indirect restorations are involved.

Removable prosthetics	Implant prosthetics		
Digital Denture	Abutment	Implant-supported bar	Implant-supported superstructures

Service+ Production

Service+ Production

Service+ Design & Production
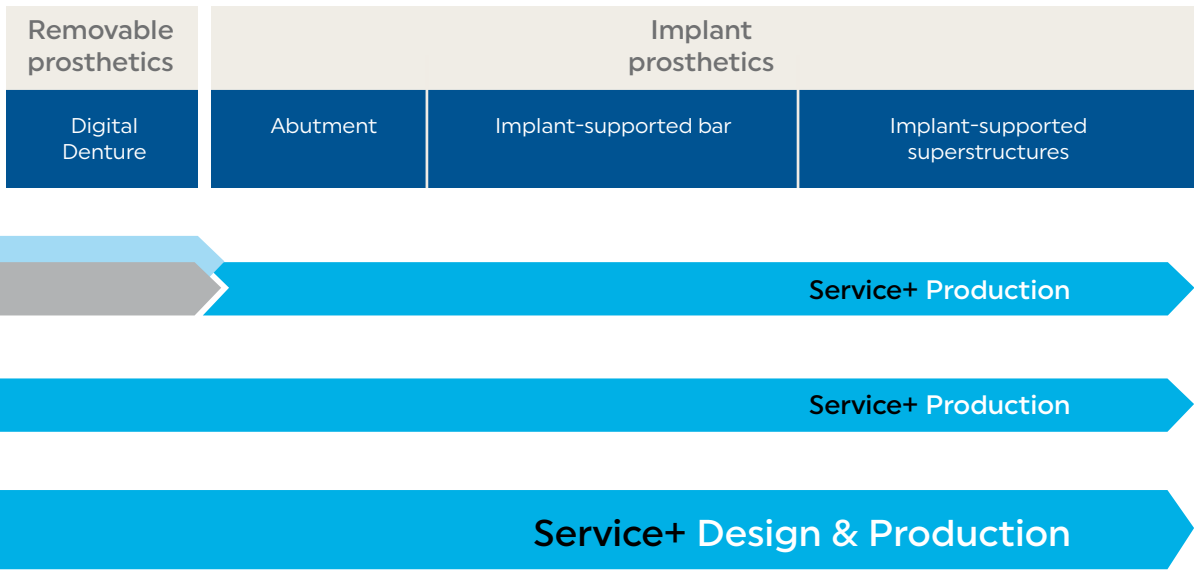
Material and applications

	Fixed prosthetics				Implant prosthetics			Removable prosthetics		Process-supporting prosthetics	
	Inlay / Onlay / Veneer	Crown / Framework	Bridge	Telescope crown	Custom abutment	Implant-supported bar	Implant-supported superstructure	Super-structure[1] on bar	Digital denture	Splint	Wax structure
IPS e.max® ZirCAD		✓	✓	✓			✓				
IPS e.max® CAD	✓	✓	✓ [3]				✓				
IPS Empress® CAD	✓	✓									
Chromium-cobalt		✓	✓	✓		✓	✓	✓			
Titanium		✓	✓	✓		✓	✓	✓			
Custom Abutment Ti5					✓						
Tetric® CAD	✓	✓									
Telio® CAD		✓	✓				✓				
SR Vivodent® CAD									✓[2]		
IvoBase® CAD									✓[2]		
ProArt CAD Splint										✓	
ProArt CAD Wax yellow											✓

[1] Superstructures incl. an implant bar are only available via Design & Production.
[2] Requirements: Dental System 2017 and Digital Denture add-on software module
[3] Up to the second premolar as the terminal abutment

Individual implant restorations

The implant manufacturers' most commonly used interfaces are available for the production of individual implant restorations. The Ivoclar CAD library also includes special geometries, such as a digital patrix (compatible with MK1®*, Preci-Vertix®* and Preci-Horix®*). They have been specially developed to enable an optimal manufacturing process, including polishing.

The fitting accuracy of each implant-supported bar and bridge is carefully checked.

Manufacturer*	Implant system*	Implant platform (ø mm)					Abutment level	One-piece abutments	Implant-supported superstructure
Biomet 3i	Osseotite®	3.4		4.1	5.0	6.0		✓	✓
	Osseotite® Certain®	3.4		4.1	5.0	6.0		✓	✓
CAMLOG®	Camlog®	3.3	3.8	4.3	5.0	6.0		✓	✓
	Conelog®	3.3	3.8	4.3	5.0			✓	✓
	iSy®		3.8	4.3	5.0			✓	✓
Dentsply Implants	Astra Tech Osseo Speed™	3.5/4.0		4.5/5.0				✓	✓
	Frialit® + Xive®	3.4	3.8	4.5/5.5				✓	✓
	Ankylos®						Balance Base Abutment C/narrow		✓
medentis medical	ICX	3.45	3.75	4.1	4.8			✓	✓
Nobel Biocare	Brånemark System®	NP 3.5		RP 4.1	WP 5.1			✓	✓
	NobelActive™	NP 3.5		RP 4.3/5.0				✓	✓
	NobelReplace™	NP 3.5		RP 4.3	WP 5.0	6.0		✓	✓
							Multi-unit		✓
Straumann	Bone Level	NC 3.3		RC 4.1	RC 4.8			✓	✓
	synOcta®				RN 4.8	WN 6.5		✓	✓
Zimmer	Screw-Vent®	3.5		4.5	5.7			✓	✓

Authorized CAD/CAM labside grinding and milling units for Ivoclar CAD/CAM materials

Authorized for IPS e.max®

ivoclar

Manufacturer of CAD/CAM units	System	IPS e.max® CAD			
		Inlays, onlays, veneers and crowns	Three-unit bridges[2]	Implant-supported hybrid abutments	Implant-supported hybrid abutment crowns
ivoclar	PrograMill® Dry				
	PrograMill® PM3 / PM5	▣	▣		
	PrograMill® PM7	▣	▣		
	Zenotec® mini				
	Zenotec® select				
	Zenotec® select hybrid	▣	▣		
AMANNGIRRBACH	ceramill® mikro ic	▣	▣		
	ceramill® motion 2 / motion 3	▣	▣		
	ceramill® matik	▣	▣		
Dentsply Sirona	inLab® MC XL	▣	▣	▣	▣
	inLab® MC X5	▣	▣	▣	▣

[1] The range of products may vary from country to country
[2] Up to the second premolar as the terminal abutment
[3] With up to two connected pontics

▣ blocks   ⬤ 98.5 mm discs

	IPS e.max® ZirCAD		IPS Empress® CAD	Tetric® CAD	Telio® CAD	
	Crowns	Bridges	Inlays, onlays, veneers and crowns	Inlays, onlays, veneers and crowns	Temporary crowns and bridges[3]	Implant-supported hybrid abutment crowns

Authorized
for IPS e.max®

ivoclar

Manufacturer of CAD/CAM units	System	Ivotion Full denture	Ivotion Dent / Multi Tooth segments/ denture teeth	Ivoti... Bas... Denture...
ivoclar	PrograMill® Dry	●	●	●
	PrograMill® PM3 / PM5	●	●	●
	PrograMill® PM7	●	●	●
	Zenotec® mini			
	Zenotec® select	● *	●	●
	Zenotec® select hybrid	● *	●	●
AMANNGIRRBACH	ceramill® motion 2		●	●
	ceramill® motion 3		●	●
	ceramill® matik		●	●
Dentsply Sirona	inLab® MC X5		●	●

[1] The range of products may vary from country to country
*Only in machines with material changer

● 98.5 mm discs

...ion ...se	Colado® CAD CoCr4		Colado® CAD Ti5	
...e base	Crowns and bridges (full-contour and frameworks)	Bars, implant supported superstructures	Crowns and bridges (frameworks)	Bars, implant supported superstructures
●				
●	●			
●	●	●	●	
●	●			
●	●			
●	●			
●				
●				
●				
●				

Authorized for IPS e.max®

ivoclar

ivoclar

AMANNGIRRBACH

Dentsply Sirona

Manufacturer of CAD/CAM units	System	ProArt CAD Wax yellow	ProArt CAD Wax blue
		Burnout restorations for the press technique	Burnout restorations for the casting technique
ivoclar	PrograMill® PM3 / PM5	●	●
	PrograMill® PM7	●	●
	Zenotec® mini	●	●
	Zenotec® select	●	●
	Zenotec® select hybrid	●	●
AMANNGIRRBACH	ceramill® motion 2	●	
	ceramill® motion 3	●	
	ceramill® matik		
Dentsply Sirona	inLab® MC X5	●	●

[1] The range of products may vary from country to country

● 98.5 mm discs

	ProArt CAD Splint	ProArt CAD Try-In
	Occlusal splints, drilling templates	Functional try-in, impression trays / functional trays, bite templates
	●	●
	●	●
	●	
	●	●
	●	●
		●
		●
		●
	●	●