PRIME COMPANION

THE DENTAL SOLUTIONS COMPANY™

Dentsply Sirona

v. 5.2.7
Update Description

Getting Started

Support Resources

Support Plans & DS Core

Getting to Know Your Scanner

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Primeprint / Software Workflows

*Requires cdocs membership to view

Support & Warranty

CEREC Club

DS CORE

DS CORE Create

DS CORE Care

CEREC Club

For a reasonable monthly fee, protect your investment and ensure your new CEREC® Primescan™ and/or complete CEREC® system is always up-to-date.

Member benefits* include:

- ✔ Extended parts warranty of up to six years
- ✔ Dedicated technical phone support
- ✔ Access to CEREC software upgrades free of charge

**School, government, military, and DSO account benefits may differ.*

DS CORE

Video List

DS Core is a cloud-based platform that enables regulatory compliant storage and GDPR/ HIPAA-compliant file sharing.

Supported Formats

The embedded viewer supports rendering of .dxd, .dcm, .pdf, videos, and images.

DS Core supports automatic upload from devices that use Sidexis SW 4.3.1, CEREC SW 5.2.3, and Connect SW 5.2.3 or higher.

Besides storing copies of your scans and x-rays in the cloud, DS Core also allows you access to other services like Core Create and Core Care.

In the future, it will host our software and other services ranging from diagnosis to education.

Sign up for a 12-month plan based on three storage levels, or chose Configure Later to skip entering payment information. Either way, you pay nothing for 3 months.

Configure later note

Light	Standard	Advanced
1 TB	6TB	15 TB
$19.95 / month	$99.95 / month	$229.95 / month

Click on a phone number for dedicated support:

888–268–9095 (USA) | 647-805-2176 (Canada)

DS CORE CREATE

DS Core Create provides easy access to high-quality designs.

Scan & Order via DS Core Scans upload to DS Core (open to every intraoral scanner). The customer decides which cases to design and manufacture and which cases to outsource and manufacture.

Case Review Within 15 minutes, the lab reviews the scan and either accepts the order or requests updates.

Final Design Within 6 business hours the lab technician designs the indication and creates a ready-to-print file.

Customer Reviews Design The doctor approves and downloads the design. If the doctor requests adjustments, changes are made within 2 business hours.

Customer Manufactures the File Making Primeprint even easier to integrate into your practice.

DS CORE CARE

Customer Support Portal Online product and workflow information 24/7 for immediate self-support at: *coresupport.dentsplysirona.com*

Hotline Support Technical phone support from qualified service experts.

Fast Service Clarification Share device information and technical status with service technicians for remote support.

Parts Warranty Manufacturer parts-only coverage for three years with the option to extend.

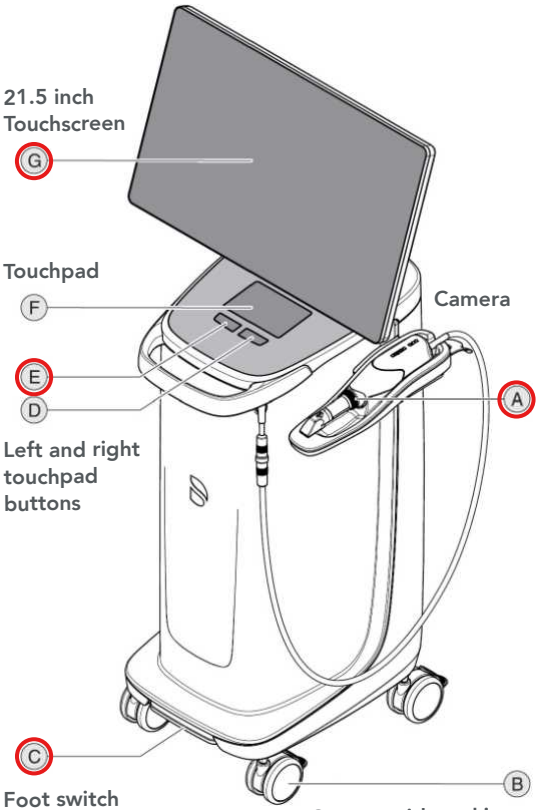
Maintenance Annual preventive maintenance performed by a qualified service technician.

DS Core Care subscriptions are per device and are currently available for Primeprint Solution and Primescan Connect.

CLICK TO ENROLL. ONLY AVAILABLE WITHIN THE FIRST 90 DAYS OF HARDWARE PURCHASE.

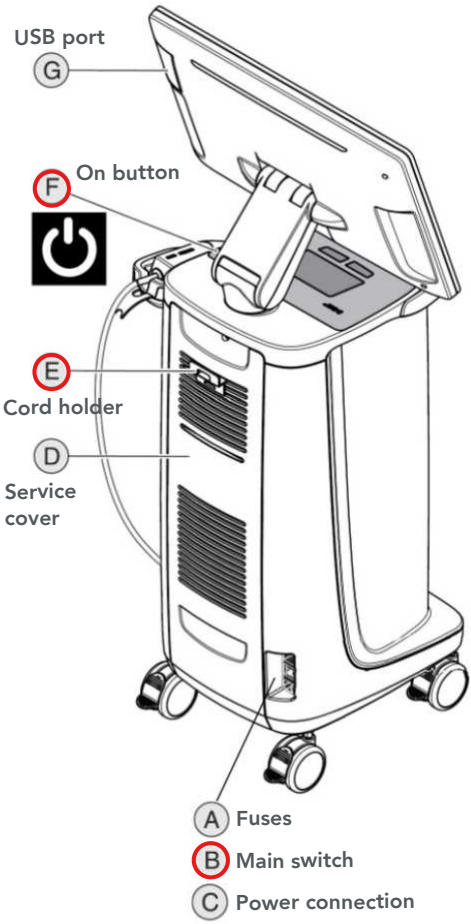
Front Back

Tap a red circle to learn more:



Front Back

Tap a red circle to learn more:



Your CEREC® Team

Small business owners like yourself rely on the specialized skills of trusted partners. As a new CEREC owner, you have access to a team of people who want to help you succeed.

Your CEREC-Authorized Dealer
Provides factory-trained service technicians to set up and maintain your equipment, trainers to help you get started, and access to technical support specialists at their national call centers to answer hardware and software questions.

Dentsply Sirona
We support our dealer partners. Our Clinical Development Managers coordinate access to specialists across a wide variety of procedures to answer questions on restorative materials (including CEREC Consumables), endodontic, implant, and clear-aligner therapy.

Answers to Clinical Questions

If you are new to single-visit dentistry and CAD/CAM, you're going to have questions.

The good news is that you're now part of a community of CEREC users who are willing to share what they know.

Some of that sharing happens in local study clubs or on discussion boards as members ask questions and hear from their peers.

Talented users have built formal training centers. For a fee, you can access their training videos and attend hands-on courses.

Some of these companies offer case reviews, webinars, podcasts, digital magazines, mobile apps, and courses on related subjects like ortho, endo, implants, and cone beam.

CAD/CAM Workflow

The process is simple and predictable:

Capture Digital Impressions
A digital camera uses light to capture and create a digital impression of the patient's teeth and bite.

Computer-Aided Design (CAD)
Specialized software uses that impression to generate a proposed restoration. Someone then reviews the design to check material thickness, occlusion, contours, and proximal contacts strength.

Computer-Aided Milling (CAM)
The final design is milled with burs to precisely mill or grind out the restoration from a block of material.

Post-mill Processing and Delivery
Some materials are fired, others are only polished. At some point, the restoration is tried in the patient's mouth to verify fit and esthetics. If everything looks good, it's cemented in place before occlusion is checked and adjusted, if necessary.

Prep for Success

How you prepare the tooth before taking your digital impression is crucial for well-fitting, long-lasting restorations. Make sure to provide:

Adequate Reduction

Occlusal reduction: Use prep aids to ensure enough clearance for your intended restorative material and to provide great anatomy. For a list of popular options click here.

Proximal reduction: Set the finish line below the point of proximal contact to allow for a pleasing emergence profile.

Smooth (Polished) Margins

Most CAD/CAM materials require a chamfer or shoulder margin. Polish away any steps leaving a clearly defined edge.

Flowing Internals

Round off any sharp line angles and transitions.

Well-Isolated Margins

Control any bleeding and retract the tissue around the subgingival areas of the margin.

First, sign in at cdocs.com and then click a video link below.

Prep Design

- Prep: General Principles (4:53)
- Prep: Occlusal Reduction (8:02)
- Prep: Axial Reduction (5:39)
- Prep: Margin Design (5:37)
- Prep: Demo on Typodont (23:59)
- CEREC Restorative Options (5:10)
- Onlay: Occlusal Reduction (5:52)
- Onlay: Cavosurface (5:56)
- Isolation & Retraction (5:03)
- Retraction Methods (8:41)

Blocks & Materials

- Tessera: Tip of the Day (1:43)
- Blocks: Overview (5:37)
- Blocks: Occlusal Wear (6:13)
- Shade Guides (Classic/3D) (3:00)
- Tessera: Spray Demo 4:58)
- Tessera: Paint-on Demo (4:11)
- Ceramics: Margin Chipping (6:38)
- Ceramics: Milling Speed (8:55)
- Ceramics: Margin Thickness (4:51)
- Blocks: Zirconia Properties (5:01)
- Blocks: Pre-polish Zirconia (5:33)
- Zirconia: SpeedFire® (3:16)
- Zirconia: Before Sintering (7:03)

Adhesion

- Cement: Categories (9:07)
- Cement: Resin Strength (7:23)
- Calibra Ceram (Dr. Hall) (7:34)
- Cement: Prepare Intaglio (8:14)
- Cement: Bonding Sequence (9:21)
- Cement: Moist Bonding (5:09)
- Cement: Enamel Etching (8:46)
- Cement: Silane in Bonding (6:08)
- Cement: 10-MDP & PENTA (5:36)
- Cement: Desensitizers (7:30)
- Cement: Color Effects (4:43)
- Cement: Bonding Zirconia (5:26)

Primeprint

- ***PLEASE, START HERE!***
- Workflow Using Model (6:44)
- CEREC SW Splint (8:18)
- CEREC SW CEREC Guide (9:11)
- CEREC SW Working Model (8:40)
- CEREC SW Thermo Model (8:38)
- CEREC SW Solid Model (5:14)
- inLab SW Temporaries (7:06)
- inLab SW Splint (8:47)
- inLab SW CEREC Guide (9:54)
- inLab SW Working Model (10:21)
- inLab SW Thermo Model (9:02)
- inLab 22 Digital Wax Ups (22:00)

Software Workflows

- Patient Communication
- Restorative
- Orthodontic
- Implantology
- Sleep Therapy
- Fixed / Removable

Connect SW

Scan Every Patient

Take full-arch digital impressions on every patient as part of his and her digital record.

To learn more, contact your local Dentsply Sirona Clinical Development Manager.

Restorative

Scan, Check, Send

Connect SW +
Connect Case Center
Securely send digital impressions to your favorite labs.

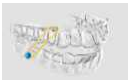
Single-Visit Dentistry

CEREC SW 5 +
Milling Unit
Deliver crowns, inlay/onlays, veneers, 3-unit bridges, quadrant dentistry, and single-visit endo.

Lab Design

Connect SW +
Partner Lab
Work with a Dentsply Sirona lab partner and present digital or 3D-printed mock-ups of your treatment plans to increase case acceptance.

To learn more, contact your local Dentsply Sirona Clinical Development Manager.



www

Demo

Clear Aligner Therapy

SureSmile® Aligner
Provide virtually invisible Essix® ACE aligners for anatomically-correct tooth movement.

SureSmile Ortho
Great for more advanced cases. Order physical models or print them yourself using STL files provided in the software.

SureSmile Advanced
Place brackets and robotically-bent wires. Position the brackets on the screen and transfer them accurately all at once with SureSmile IDB trays.

To learn more, contact your local Dentsply Sirona Clinical Development Manager.

CBCT

Out-Sourced Guides

mySimplant Workflow
Designed and manufactured by DS, approved by you.

SICAT Surgical Guides
Optiguide: designed by you in SICAT/Sidexis software, manufactured in Germany.

CBCT

In-Sourced Guides

mySimplant Workflow
Designed by DS, approved by you. STL file for you to print.

SICAT Surgical Guides
DigitalGuide, RapidGuide (STL)
CEREC Guide (Chairside)

Chart

IO FLO

Restoring Implants

Preferred Labs

Atlantis Custom Abutments

Other

Sleep Therapy

SICATAIR

www

With Cone beam

SICAT**AIR & OPTI**SLEEP
After fully digital planning, order the appliance directly from the software.

www

Demo

Without Cone beam

Partner: Panthera
This Digital-Sleep Apnea Device (D-SAD) is the smallest in the industry and the only one that is entirely printed using CAD/CAM technology.

Third-Party Labs
Using your digital scan, order other oral sleep appliances (e.g., Somnomed®, Glidewell Silent® Nite).

To learn more, contact your local Dentsply Sirona Clinical Development Manager.

Fixed / Removable

Fixed

SmartFix® concept

Fixed, screw-retained full-arch restoration on 4 or more implants using IO FLO-S scan posts.

Atlantis® Conus concept

Fixed, friction-retained full-arch restoration on 4 or more implants (as rigid as screw-retained, yet easy for the patient to remove and clean.

Video

Removable

Locator with LDP

Removable prosthetic using locators in a Lucitone Digital Print (LDP) denture base.

www

Digital Denture with LDP

Take edentulous scans for preliminary impressions. Work with a DS partner lab to use this workflow.

Demo

To learn more, contact your local Dentsply Sirona Clinical Development Manager.

Parameters

What Does Each Parameter Mean?

FactorySettings (not editable)

CEREC SW 5.2.x

Contact Colors

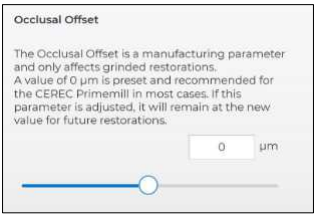
What Contact Colors Mean

What Does Each Parameter Mean?

Occlusal Offset

Video

For CEREC Primemill users (≥ SW 5.2.2), the default of 0 is recommended for ceramics. To change the value, a slider is located inside CEREC Primemill Performance under Settings.



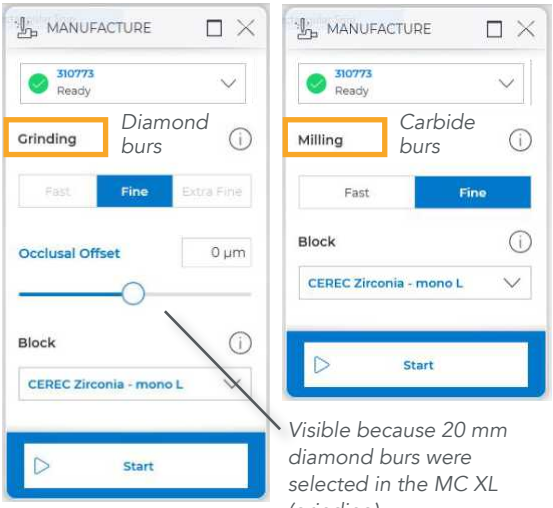
Before SW 5.2.2 (or if you use an MC X or MC XL milling unit), the slider is found in the Manufacture phase when using diamond burs.

A value of -175 microns is generally recommended when grinding with diamond burs on the MC X / MC XL (not needed for the CEREC Primemill)

This value doesn't change how the restoration looks on the screen.

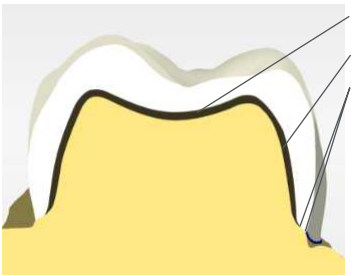
When is it needed? The diamond burs in the MC X / MC XL grind with a small degree of variance due to micro bending and bur deflection. This variance can result in occlusion that is higher than you designed. An offset value is required to compensate. Carbide milling lacks this variance so it doesn't need an offset.

A negative offset value with the MC X / MC XL won't make the restoration thinner than you designed. Instead, it removes the small amount of material that otherwise would have left your restoration thicker than you designed due to tool displacement. The Occlusal Offset slider is absent if you select zirconia or temporary bridge blocks with carbide burs (as shown below):



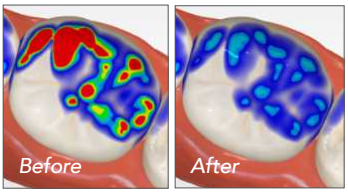
Visible because 20 mm diamond burs were selected in the MC XL (grinding).

Spacer (Radial)
Spacer (Occlusal)
These two values create a hollow space under the restoration (except at the last 400 µm of the margin) to leave room for the cement.



Proximal Contacts Strength
Occlusal Contacts Strength
These parameters tell the software how tight to set the proximal contacts and how high to place the restoration into occlusion on the initial proposal. Positive values tell the software you want heavier contacts as a starting point.

The Adjusts Contacts tool in the Design phase also uses these values to decrease high occlusion and heavy contacts.



With Occlusal Contacts Strength set to -100, the Adjust Contacts (Occlusal) button will remove most green, yellow, and red contact colors.

Dynamic Contacts Strength
This value is only used when you use the software's virtual articulator. Without the articulator active, you won't see a change no matter how high or low you set this value.

Minimal Thickness (Radial)
Minimal Thickness (Occlusal)
The software uses these two values to create an imaginary blue bubble around the prep (on top of the spacer). You can toggle this blue projection on or off in the Display Objects window.

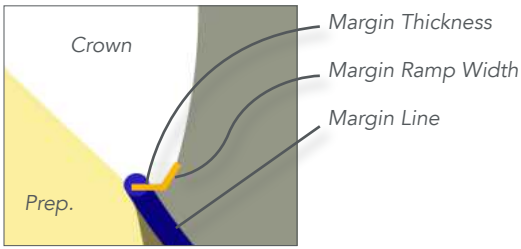
If you see the blue bubble on the surface of the restoration, you have less material there than the values you entered (meaning that the restoration is too thin).

Keep in mind; the blue bubble roughly follows the shape of the prep. If you merely try to "get rid of the blue bubble," you could end up designing a restoration that looks more like a prep and less like a crown—extremely shallow fissure, unusual anatomy, etc.

Margin Thickness
Ceramics are too brittle to grind to a knife-edge in the milling unit without severe chipping (meaning a Margin Thickness setting of 0 µm).

Because values greater than zero create a slight lip, this value should be kept as low as the material and milling mode will allow without chipping.

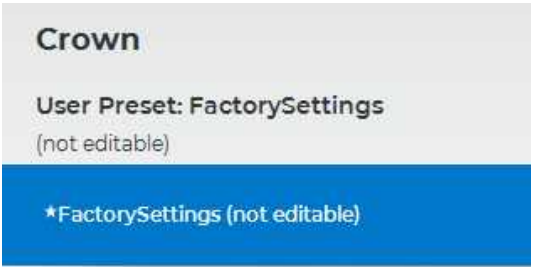
A Margin Thickness of 100 µm (about the width of a human hair) is required to enable fast milling of zirconia.



Margin Ramp Width
Margin Ramp Angle
These two values soften the transition as you increase Margin Thickness.

Even if you use the design tools around the margin, they can't alter the margin thickness, ramp width, or ramp angle.

FactorySettings (not editable)



With *FactorySettings (not editable)* as the default, six parameters are assigned to all crown cases, regardless of material choice:

120 µm	Spacer (Radial)
120 µm	Spacer (Occlusal)
25 µm	Proximal Contacts Strength
25 µm	Occlusal Contacts Strength
25 µm	Dynamic Contacts Strength
60 degrees	Margin Ramp Angle

Four additional parameters change dynamically based on the material selected in Case Details of the Administration phase:

Dynamic	Minimal Thickness (Radial)
Dynamic	Minimal Thickness (Occlusal)
Dynamic	Margin Thickness
Dynamic	Margin Ramp Width

These four values update automatically if you pick a different material or select a different milling unit (e.g., Primemill vs. MC X/MC XL).

Dynamic values for crowns (SW 5.2.7)

Mfr.	Block	Min. Thick. (Radial)	Min. Thick. (Occlusal)	Margin Thick.	Margin Ramp Width
CERAMICS					
Ivoclar	IPS e.max	800	1000	100	100
DS	CEREC Tessera™	1000	1000	100	100
DS	Celtra Duo	1000	1500	100	100
DS	CEREC Blocs C	1000	1500	100	100
DS	CEREC Blocs C PC	1000	1500	100	100
VITA	Triluxe	1000	1500	100	100
VITA	Triluxe forte	1000	1500	100	100
VITA	RealLife	1000	1500	100	100
SHOFU	Block HC	1000	1500	100	100
SHOFU	Block HC (2L)	1000	1500	100	100
GC	Initial LRF	1500	1500	100	100
GC	Initial LiSi	1500	1500	100	100
Ivoclar	Empress	1500	1500	100	100
Ivoclar	Empress Multi	1500	1500	100	100
VITA	Suprinity PC	1500	1500	100	100
RESIN					
GC	CERASMART / 270	800	1000	100	100
VITA	ENAMIC	800	1000	100	100
VITA	ENAMIC multi	800	1000	100	100
VITA	CAD-Temp monoColor	800	1500	100	100
VITA	CAD-Temp multiColor	800	1500	100	100
Coltene	BRILLIANT Crios	800	1500	100	100
Ivoclar	Tetric CAD	800	1500	100	100
Ivoclar	Telio CAD	800	1500	100	100
Kuraray	Avencia	1000	1500	100	100
3M	Lava Ultimate	1000	1500	100	100
ZIRCONIA					
VITA	YZ HT	400	500	100	100
DS	CEREC Zirconia+	700*	700	100	100
DS	CEREC MTL Zirconia	700*	600	100	100
Ivoclar	e.max ZirCAD LT	500	700	150	150
3M	Chairside Zirconia	800	800	100	100
Kuraray	Katana Zirconia ONE	800	800	100	100
Kuraray	Katana Zirconia STML	1000	1000	100	100
Ivoclar	e.max ZirCAD MT Multi	1000	1000	150	150

* These updated values reflect the minimum thickness required to Super-Fast milling zirconia. When milling in Fast or Fine mode, you may lower the values to 600 microns for MTL and 500 microns for CEREC Zirconia+ in the local parameters window (in the Design phase).

Dynamic values for crowns (SW 5.2.7)

Mfr.	Block	Min. Thick. (Radial)	Min. Thick. (Occlusal)	Margin Thick.	Margin Ramp Width
CERAMICS					
Ivoclar	IPS e.max	800	1000	50	50
DS	CEREC Tessera	1000	1000	50	50
DS	Celtra Duo	1000	1500	50	50
DS	CEREC Blocs	1000	1500	50	50
DS	CEREC Blocs PC	1000	1500	50	50
DS	CEREC Blocs C	1000	1500	50	50
DS	CEREC Blocs C PC	1000	1500	50	50
VITA	Triluxe	1000	1500	50	50
VITA	Triluxe forte	1000	1500	50	50
VITA	RealLife	1000	1500	50	50
SHOFU	Block HC	1000	1500	50	50
SHOFU	Block HC (2L)	1000	1500	50	50
GC	Initial LRF	1500	1500	50	50
GC	Initial LiSi	1500	1500	50	50
Ivoclar	Empress	1500	1500	50	50
Ivoclar	Empress Multi	1500	1500	50	50
VITA	Suprinity PC	1500	1500	50	50
RESIN					
GC	CERASMART / 270	800	1000	50	50
VITA	ENAMIC	800	1000	50	50
VITA	ENAMIC multi	800	1000	50	50
VITA	CAD-Temp monoColor	800	1500	50	50
VITA	CAD-Temp multiColor	800	1500	50	50
Coltene	BRILLIANT Crios	800	1500	50	50
Ivoclar	Tetric CAD	800	1500	50	50
Ivoclar	Telio CAD	800	1500	50	50
Kuraray	Avencia	1000	1500	50	50
3M	Lava Ultimate	1000	1500	50	50
3M	Paradigm MZ100	1500	1500	50	50
ZIRCONIA					
VITA	YZ HT	400	500	100	100
DS	CEREC Zirconia+	700	700	100	100
DS	CEREC MTL Zirconia	700	600	100	100
Ivoclar	e.max ZirCAD LT	500	700	150	150
3M	Chairside Zirconia	800	800	100	100
Kuraray	Katana Zirconia ONE	800	800	100	100
Kuraray	Katana Zirconia STML	1000	1000	100	100
Ivoclar	e.max ZirCAD MT Multi	1000	1000	150	150

To change parameter values in the Design phase, click the Restoration Parameters tab at the bottom left of the screen. **Changes within a case only affect that case**.

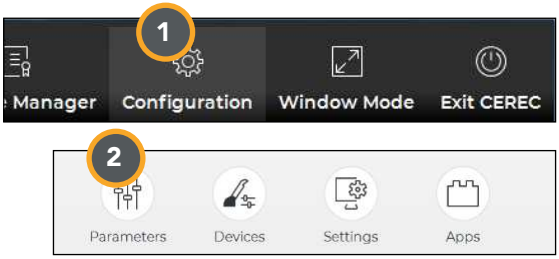
Scroll down, and you'll see that the four dynamic parameters are locked.

Each one you unlock is no longer dynamic. It won't change if you change materials in Case Details of the Administration phase.

We generally only recommend unlocking these values if you won't be changing materials for the current case (e.g., ok to unlock to increase Tessera's minimal thickness from 1.0 mm to 1.5 mm because that's the minimum required to use a conventional cement).

CEREC® SW 5.2.x Parameters

Access the global parameters by clicking on the DS logo in the top left corner of the screen, then click on **1** Configuration, and **2** Parameters.



Although the default set (*FactorySettings not editable*) is very good, Dr. Skramstad recommends making a copy and modifying the following values (values in black are his personal preference; values in blue benefit a broader audience).

Crowns (ceramic and zirconia)

0	Proximal Contacts Strength
-50	Occlusal Contacts Strength
-75	Dynamic Contacts Strength

Verify the required material thickness by checking Cursor Details, and using the Slice tool to search out and correct any thin spots.

Inlay/Onlay

0	Proximal Contacts Strength
-50	Occlusal Contacts Strength
-75	Dynamic Contacts Strength

Pontic

-50	Occlusal Contacts Strength
-75	Dynamic Contacts Strength
5	**Lingual Opening Angle**

Screw Retained Crown

(not split)

0	Proximal Contacts Strength
-50	Occlusal Contacts Strength
-75	Dynamic Contacts Strength
100	**Gingival Placement Pressure**

Abutment

100	**Gingival Placement Pressure**
600	**Shoulder Width**

Abutment with Crown

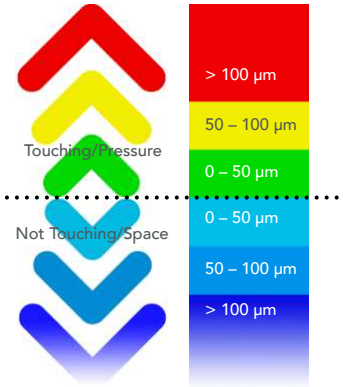
(Split, Cement-retained, 2 pieces)

0	Proximal Contacts Strength
-50	Occlusal Contacts Strength
-75	Dynamic Contacts Strength

You may also consider changing **Preparation Analysis (Tolerance)** from 200 to 0 to better appreciate what you see while in the Preparation Analysis tab of the Model phase (green where you have enough reduction and red where you do not).

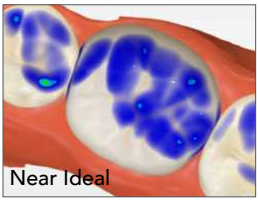
What Contact Colors Mean

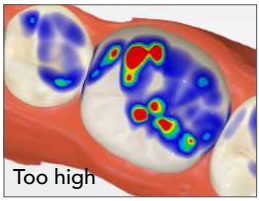
To visually represent how close the restoration is to its neighbor, the software uses color mapping.



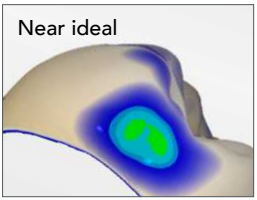
Dark blue and turquoise colors indicate that the surface is close to, but not touching, its neighbor.

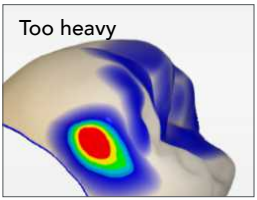
For ideal occlusion, dark blue (>100 microns) is the desired color, with maybe a pinpoint of turquoise.



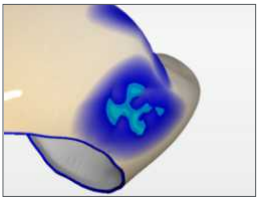


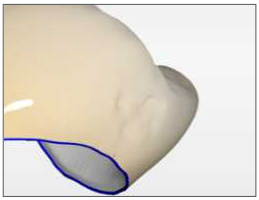
For ideal proximal contacts, use the smooth tool to remove red and yellow. The two shades of turquoise are what you want to see with perhaps some green (experience will tell you how much green).





The shape of the proximal contacts should be uniform, not patchy as shown below. Patchy colors indicate an uneven surface and could result in unpredictable or open contacts.





Materials Processing

Glass Ceramics

CEREC Tessera

Celtra Duo

Zirconia

CEREC Zirconia (wet/dry)

CEREC Zirconia+ (wet/dry)

CEREC MTL Zirconia (wet/dry)

Primeprint

Polishing Printed Temps/Splints

After milling:

- Cut the restoration from the block (do not snap off). Use a heatless stone in a slow-speed handpiece (10,000 -12,000 RPM) to remove the sprue. Do not use a high-speed handpiece because it can cause excessive heat and trauma to the ceramic.

Meisinger Heatless Wheel, HP (2/pk) #9736G-150-HP-P (Med. 15mm)
Meisinger Heatless Taper, HP (2/pk) #9734G-040-HP-P (Med. 4mm)

- Clean the restoration to remove ceramic particles and lubricant.

- Try-in and adjust proximal* contacts, if needed. Only use fine-grain diamonds with ample water. Disinfect the restoration.

***To prevent fracturing, don't check occlusal contacts until the restoration is bonded in place.**

- Thoroughly clean and dry the restoration after try-in (using soap and water, scrub with a toothbrush for 30 seconds or steam clean).

- Protect the intaglio (underside) from glaze. Apply an even coat of paint-on glaze. (Note: with spray glaze, apply an even coat, air dry 10 seconds, and then apply a second coat.)

Popular ways of holding the restoration while glazing

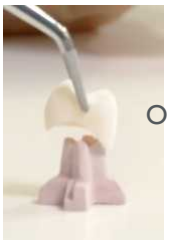
DS Moldable Silicone Refill
536 549 0112 (2/pk)

DS Universal Overglaze High Flu
60 55 42 (5 g)

Stain/Glaze Liquid:
60 13 50 (50 mL)

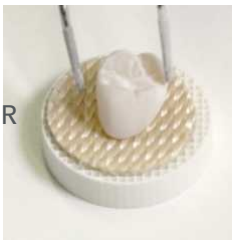
- After applying glaze, pick the restoration up by the contacts and transfer to either an investment pin or a mini honeycomb/pad combo (for the CEREC SpeedFire).

Lift and place on an approved pin or firing pad/tray combo



OR

Investment Pins:
536 549 0111
(4 Post. + 2 Ant.)



Round firing pad (small):
536 540 1212 (3 pcs)

SpeedFire Honeycomb Tray:
536 549 0110 (2 each)

SpeedFire Oven

Paint-on or Spray Glaze (4:30 minutes):
Important: Single restoration only

Preheat the oven.* After the temperature reaches 400 °C (about 90 seconds), tap the job on the touchscreen to lower the tray. Transfer the restoration to the oven on top of either the firing pad/honeycomb tray combo or an investment pin. Start the cycle.

**Ideally, press the preheat icon after removing the restoration from the milling unit.*

Traditional Porcelain Furnace

Spray or Paint-on Stain and Glaze in an Ivoclar CS oven (10:40 - 12:10 minutes):
Use a custom firing program.

Transfer the restoration to a firing pad on top of a standard-size honeycomb tray. For posterior crowns, place the restoration margin-side down. For anterior teeth, place the restoration on the lingual side.

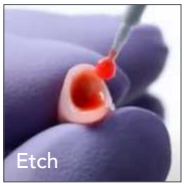
- After firing, move the honeycomb tray/firing pad combo or investment pin with the restoration to the cooling area. Allow to cool naturally for 5-6 minutes.

Polish away contact marks (if any) caused during transferring.

- Acid etch the intaglio (underside) with **5% HF acid for 30 seconds.** Rinse well and dry.

Do **NOT** air abrade glass ceramics.

Prepare Crown Intaglio Demo



Apply silane (or follow the Instructions for Use for the adhesive bonding system of your choice).

After milling:

- Use a heatless stone in a slow-speed handpiece (10,000 -12,000 RPM) to remove the sprue. Avoid using a high-speed handpiece to do this because it can cause an excessive amount of heat and trauma to the ceramic.

Meisinger Heatless Wheel, HP (2/pk) #9736G-150-HP-P (Med. 15mm)
Meisinger Heatless Taper, HP (2/pk) #9734G-040-HP-P (Med. 4mm)

- Rinse the restoration under tap water to remove ceramic particles and lubricant.

- Try-in and adjust proximal* contacts, if needed. Only use fine-grain diamonds with ample water. Disinfect the restoration.

***To prevent fracturing, don't check occlusal contacts until the restoration is bonded in place.**

- Thoroughly clean and dry the restoration after try-in (using soap and water, scrub with a toothbrush for 30 seconds or steam clean).

At this point, you have the option to:

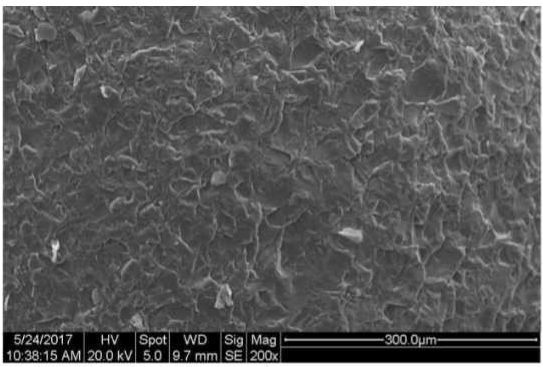
A) **Polish** and place the restoration without firing

B) **Fire** the restoration for greater strength (recommended for posterior restorations)

Option A: Polish and place (210 MPa)

The primary goal of polishing Celtra® Duo is to heal the small fractures caused by the diamond burs during the milling process—not to give it a high luster.

It may be helpful to visualize surface roughness as mountain tops and valleys. To heal the fractures in the valleys, the mountain tops need to be removed first. Otherwise, only the top gets polished by the progressively finer grits of polishing wheels.



Celtra Duo before polishing (magnified 200x)

When polishing, don't overheat the material. Apply pressure, and release. Using brief contact and short strokes prevent the material from overheating.

Don't skip a polishing step because the surface looks shiny. It's not enough to polish the mountain tops; the final steps are where the healing takes place. The surface isn't healed until you complete the final steps.

- Use a white Universal Polishing wheel with light to medium pressure to remove any bur marks (reducing the roughness of the mountain tops on the buccal, lingual and occlusal surfaces. Avoid the contacts at this point).

Again, to prevent overheating the material while polishing, use short strokes and release.

Meisinger Univ. Polisher 220 mm Wheels (10/pk) contour before polishing #9617V-220-UNM-WH

Kerr NTI Mandrel HP (6/pk) #305-050

- Use a medium shine wheel at low speeds (10,000 - 12,000 RPM). Avoid sustained contact. For occlusal surfaces, use a point or twist shape with light pressure and even lower speed (8,000 - 10,000 RPM).

Med. Shine Points (2/pk)
#9743M-040-RA-BL/O

Extraoral Twist (2/pk)
#9771M-170-HP

Medium Disc (1/pk)
#9770M-260-HP-BL/O

Medium Wheel (1/pk)
#9752M-170-HP-B/O

- Follow with a fine wheel and/or point shape with the same technique described above.

Fine Shine Points (2/pk)
#9743F-040-RA-R/O

Extraoral Twist (2/pk)
#9771F-170-HP

Fine Disc (1/pk)
#9770F-260-HP-R/O

Fine Wheel (1/pk)
#9752F-170-HP-R/O

- Finish with an extra-fine polish wheel and/or point shape.

Extra Fine Points (2/pk)
#9743C-040-RA-Y/O

Extraoral Twist (2/pk)
#9771C-170-HP

Extra Fine Disc (1/pk)
#9770C-260-HP-Y/O

Extra Fine Wheel (1/pk)
9752C-170-HP-R/O

- For a high shine, use a polishing paste. Apply with a bristle brush wheel in a slow-speed handpiece. This is very effective for polishing grooves in the posterior anatomy. Avoid sustained contact.

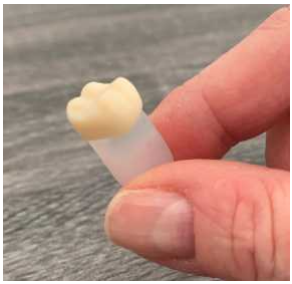
Robinson Bristle Brush
Stiff Size 12 (12/pk)
06161 (Buffalo Dental)

Diashine FS (Pink) 3 g Tub
#FS3G (Fine, Soft Binder)

B) Fire for greater strength (370 MPa).

If glazing, protect the intaglio (underside) from glaze. Apply an even coat of paint-on glaze. (Note: with spray glaze, apply an even coat, air dry 10 seconds, and then apply a second coat.)

Popular ways of holding the restoration while glazing



DS Moldable Silicone Refill
#536 549 0112 (2/pk)

Meisinger Kits for Dentsply Sirona

Extraoral Parts
Universal Shaping & Polishing DSU21

Intraoral Parts
Ceramic Finishing Kit DSG21

- After glazing, pick the restoration up by the contacts with dressing pliers and transfer it to a firing pad on top of a honeycomb tray (for the Ivoclar oven) or to a firing pad on top of the upper insulation of the SpeedFire oven (use of the mini honeycomb tray is optional).

For posterior crowns, set the restoration margin-side down. For anterior teeth, rest the restoration on the lingual side. Polish away any marks after firing.

- After the firing cycle, move to the cooling area. Allow to cool naturally for 5-6 minutes.

Etch the intaglio (underside) with **5% HF acid gel for 30 seconds**. Rinse well and dry.

Do **NOT** air abrade glass ceramics.

Apply silane (or follow the Instructions for Use for the adhesive bonding system of your choice).

Workflow for CEREC® Zirconia and CEREC Zirconia+

Cut the restoration from the block and remove the sprue

1 Carefully remove the block from the milling unit without touching the milled restoration.

Cut the restoration from the block at the sprue area using a straight handpiece with either a long-diamond or a carbide bur.

863-016-HP
Medium diamond flame (5/pk)

HM488FX-016-HP
Red fine tungsten carbide (2/pk)

HM489FX-023-HP
Red fine tungsten carbide (1/pk)

2 Finalize and smooth the sprue area with a straight handpiece and a heatless stone or diamond-impregnated polisher.

Pre-polish to remove bur marks, if desired.

Wear a mask and capture any zirconia debris over suction, if possible.

Clean and sinter the restoration

1 If dry-milled:

- Remove residual milling dust from the surface of the restoration: with either pressurized air or a large sable brush (size 10).

- For CEREC Zirconia+: tap the preheat icon on the SpeedFire display (ideally, after removing the restoration from the milling unit) and wait for the oven to reach 400 °C.

2 If wet-milled:

- The surfaces of the restoration must be clean and dust-free before sintering.

- Tap the patient's name on the CEREC SpeedFire display.

- Place the restoration occlusal side down on the upper insulation and select Sintering (if dry-milled) or Pre-dry and Sintering (if wet-milled).

Wait until the clock timer reaches 0, then move the restoration to the fan area (see arrow). Allow to cool naturally for 5-6 minutes.

Try-in and polish

1 Try the restoration in the mouth and test for proximal* contacts. Adjustments should be made with a wet grinding high-speed handpiece (diamond grain size ≤ 40 µm).

***To prevent fracturing, don't check occlusal contacts until the restoration is cemented in place.**

Air abrade the intaglio after try-in.

2 The occlusion of the sintered restoration may be polished before glazing to prevent abrasion to the antagonist once the glaze layer wears away.

3 Clean and dry the restoration.

Optional: Glazing

1 Fill the restoration with CEREC SpeedPaste and ensure that the inside is well covered. Smooth out the paste to the edge of the margins and mount on a glaze support pin.

2 Vigorously shake the can of glaze before using. Carefully and uniformly spray the surface from a distance of about 10 cm (4 inches).

DS CEREC SpeedPaste
65 80 067

DS Universal Spray Glaze
536 827 3100 w/ Fluo
536 827 3101

3 Using the tweezers, place the firing pin with restoration on the upper insulation layer of the open firing chamber (the restoration's occlusal surface faces upward).

4 Start the glazing process on the display. Wait until the clock timer has run down to 0 and then move the restoration to the fan area. Allow to cool naturally for 5-6 minutes.

If desired, perform a second glazing.

5 Remove any residual CEREC® SpeedPaste material from the inside of the restoration.

Conventional Cementation is indicated for retentive preparation designs. Recommended cement types include resin-modified glass ionomers (RMGI), glass ionomers (GIS), or zinc phosphate cement.

Cut the restoration from the block* and remove the sprue

1 Carefully remove the block from the milling unit without touching the milled restoration.

Cut the restoration from the block at the sprue area using a straight handpiece with either a long-diamond or a carbide bur.

863-016-HP
Medium diamond flame (5/pk)

HM488FX-016-HP
Red fine tungsten carbide (2/pk)

HM489FX-023-HP
Red fine tungsten carbide (1/pk)

2 Smooth the sprue area with a straight handpiece and a heatless stone or polisher.

Use light pressure when removing the sprue or prepolishing.

Wear a mask and capture any zirconia debris over suction, if possible.

*Click here to see how positioning the restoration in the block while in the Manufacture phase affects the outcome

Clean and sinter the restoration

1 Dry-mill (recommended)

- Remove residual milling dust from the surface of the restoration with either pressurized air or a large sable brush (size 10).

2 Wet-mill (allowed):

- The surfaces of the restoration must be clean and dust-free before sintering.

- Tap the patient's name on the touchpad.

- Place the restoration occlusal side down on the wedding cake and select Sintering (if dry-milled) or Pre-dry and sintering (if wet-milled).

Wait until the clock timer reaches 0, then move the restoration to the fan area (see arrow). Allow to cool naturally for 5-6 minutes.

Try-in and polish

1 Try the restoration in the mouth and test for proximal* contacts. Adjustments should be made with a wet grinding high-speed hand-piece (diamond grain size ≤ 40 µm).

***To prevent fracturing, don't check occlusal contacts until the restoration is cemented in place.**

Air abrade the intaglio after try-in.

2 The occlusion of the sintered restoration may be polished before glazing.

3 Clean and dry the restoration.

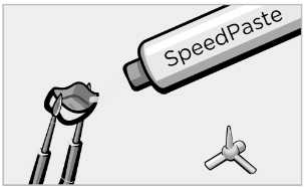
Meisinger Kits for Dentsply Sirona

Extraoral Parts
Universal Shaping & Polishing DSU21

Intraoral Parts
Zirconia Finishing Kit DSZ21

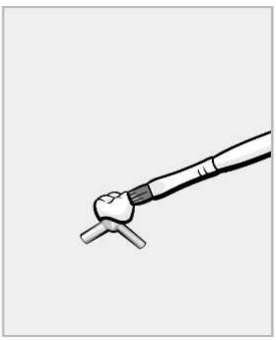
Optional: Glazing

1 Fill the restoration with CEREC SpeedPaste and ensure that the inside is well covered. Smooth out the paste to the edge of the margins and mount on a glaze support pin.



DS CEREC SpeedPaste
65 80 067

2 If using spray glaze, shake the can well. Carefully and uniformly spray the surface from a distance of about 10 cm (4 inches). Or, you can use Dentsply Sirona's Universal paint-on glaze.



DS Universal Spray Glaze
536 827 3100 w/ Fluo
536 827 3101

DS Universal Overglaze
60 55 40 High Flu
60 55 42 Standard
60 13 15 Stain/glaze Liquid

Available Stains

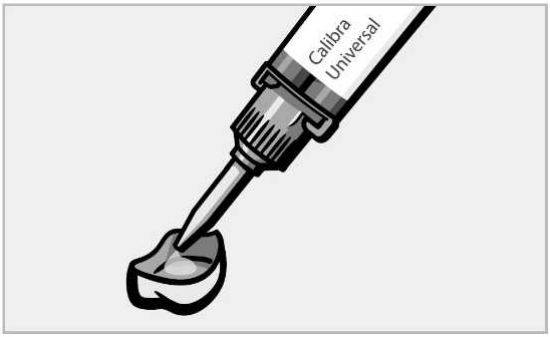
3 Using the tweezers, place the firing pin with restoration on the upper insulation layer of the open firing chamber (the restoration's occlusal surface faces upward).

4 Start the glazing process on the display. Wait until the clock timer has run down to 0 and then move the restoration to the fan area. Allow to cool naturally for 5-6 minutes.

If desired, perform a second glazing.

5 Remove any residual CEREC® SpeedPaste material from the inside of the restoration.

Conventional Cementation is indicated for retentive preparation designs. Recommended cement types include resin-modified glass ionomers (RMGI), glass ionomers (GIS), or zinc phosphate cement.



Polishing Printed Temps/Splints

1 After cleaning and curing the job in the Primeprint PPU remove the Primeprint Box.

2 Place the build platform horizontally or vertically on the holder. Use the spatula to remove the job and any residue. Clean the metal surface and sides with a paper towel moistened with isopropyl alcohol (>98%).

3 Use the side cutters to remove the supports.

4 Use a carbide bur, abrasive stone, or a Scotch-Brite wheel (all at low speeds) to smooth down the support pins.

5 Polish with twist wheels (pumice or paste may also be used).

Primeprint Finishing and Polishing Kit

DSP22 $275 MRSP

Parts

Demo

Prepare the Intaglio

Clean, Etch, and Silanate

Calibra® Ceram

Adhesive Resin Cement
For retentive and non-retentive preps

Calibra® Universal

Self-Adhesive Resin Cement
For retentive preps & endodontic posts

Calibra® Veneer

Esthetic Resin Cement
For veneers

Clean, Prepare, and Silanate

Clean

After try-in, either steam clean or scrub with a toothbrush and soap and water for 30 seconds. Air dry.

Prepare the Internal Surface

Demo

For glass ceramics, chemically treat the internal surface with 5% HF acid for the time listed in the manufacturer's Instructions for Use (e.g., 30 seconds for CEREC Tessera). Rinse and air dry.

For zirconia and resin blocks, air abrade the internal surface with 50µ alumina.

Silanate (Glass Ceramics)

Gently apply Calibra Silane Coupling Agent to the internal surface. Allow to air dry. Proceed to adhesive cementation. Always follow the manufacturer's Instructions for Use.

After try-in and prior to bonding: clean, etch, and silanize the ceramic restoration.

Note: Phosphoric etching of available enamel recommended. Conditioning of dentin is optional.

APPLY ADHESIVE TO TOOTH

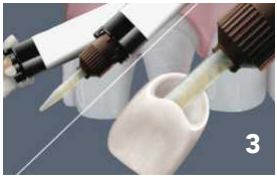
Demo

Apply generous amounts of Prime&Bond elect adhesive to thoroughly wet all the tooth surfaces. Agitate the applied adhesive for 20 seconds.

No need for Self-Cure Activator when Prime&Bond elect adhesive is used with Calibra Ceram Cement.

DRY WITH CLEAN AIR

Gently dry with clean air for 5 seconds.



APPLY CALIBRA CERAM CEMENT

Dispense and discard a small amount of material from the dual-barreled syringe. Attach mixing tip. Apply a thin uniform layer of cement to the entire internal surface of the restoration.

SEAT RESTORATION

Protect restoration from contamination and movement until the final set of the cement (5 minutes from start of mix or completion of light curing).

CLEAN UP MARGINAL EXCESS

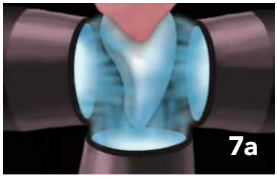
Self Cure: Excess cement will reach the "gelled" state after approximately 1-2 minutes in the mouth, allowing easy removal. *Note: Cement within the crown has not yet set. Do not move, torque, or disturb the crown during cleanup.*

or

Dual Cure: Briefly light cure cement at the margins by constantly moving the curing tip around the margins for no more than 5 seconds. Excess cement will reach a "gelled" state after this brief (<5 seconds) cure. Excess cement will remain in the "gelled" state for approximately 45 seconds following light exposure.

REMOVE EXCESS CEMENT

Protect restoration from movement during the gel phase cleanup through the final set.



FOR LIGHT TRANSMISSIBLE RESTORATIONS WITH < 2.5MM WALL THICKNESS

Once cleanup is complete, light cure all areas of the restoration for 20 seconds from each direction – buccal, lingual, and occlusal.

or

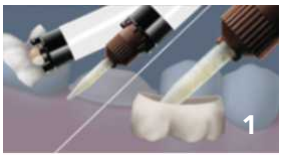
FOR NON-LIGHT TRANSMISSIBLE RESTORATIONS

For zirconia, metal, thick, or heavily opaqued material, once cleanup is completed and restoration is stabilized, allow Calibra Ceram Cement to self-cure without disturbing for 5 minutes from start of mix. Following all excess removal, exposed margins may be light-cured 20-40 seconds to assist restoration stabilization.

FINISH AND POLISH

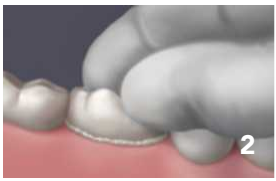
Removal of resin cement flash and finishing of the margins is best accomplished with the Enhance® Finishing System.

After try-in and prior to bonding: clean, etch, and silanize the ceramic restoration.



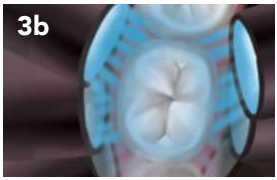
APPLY CALIBRA UNIVERSAL CEMENT

Dispense and discard a small amount of material from the dual-barreled syringe. Attach mixing tip. Apply a thin, uniform layer of Calibra Universal Cement to the entire internal surface of the restoration.



SEAT RESTORATION

Protect restoration from contamination and movement until the final set of the cement (6 minutes from start of mix or completion of light-curing).



CLEAN UP MARGINAL EXCESS

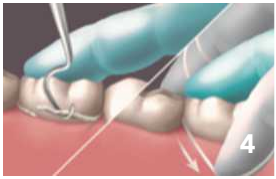
Self Cure: The excess cement will reach the "gelled" state after approximately 1-2 minutes in the mouth. Excess cement will remain in the gelled state for approximately 1 minute.

(Note: Cement within the crown has not yet set. Do not move, torque, or disturb the crown during cleanup.)

or

Dual Cure: Light curing to facilitate cleanup must be accomplished within the first minute following intraoral insertion. Light cure excess cement at the margins by constantly moving the curing light tip around the margins for no more than 5 seconds per surface (buccal and lingual). Excess cement will reach a "gelled" state after this brief cure. The excess cement will remain in the "gelled" state for approximately 45 seconds following light exposure.

(Note: Monowave output LED lights with a single peak output around 470nm are recommended.)



REMOVE EXCESS CEMENT

Protect restoration from movement during the gel phase cleanup through the final set.

FOR NON-LIGHT TRANSMISSIBLE RESTORATIONS

Light cure margins for 20-40 seconds (in dual-cure mode). Allow Calibra Universal Cement to self-cure without disturbing for 6 minutes from start of mix.

or

FOR LIGHT TRANSMISSIBLE RESTORATIONS

Light cure all areas for 10 seconds from each direction – buccal, lingual, and occlusal.

FINISH AND POLISH

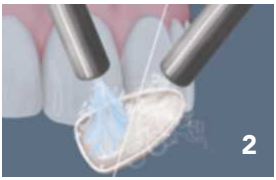
Removal of the resin cement flash and finishing of the margins is best accomplished with the Enhance® Finishing System.

APPLY CALIBRA® TRY-IN PASTE

Gently seat onto the preparation. Clean excess cement with a cotton pellet and/or blunt explorer. Shades may be blended to achieve optimum esthetics.

Important Technique Tip: Try-in paste is a guide for cement shade range selection only.

NOTE: The try-in paste will not polymerize, thus offers unlimited work time.



CLEAN AND DRY

Once fit and esthetics are verified, thoroughly clean all intaglio surfaces of the veneer with water spray and dry.

PRE-TREATMENT

Apply 5% hydrofluoric acid to intaglio only (for the specified time of that material). Rinse and dry thoroughly.

Apply Calibra Silane Coupling Agent and leave undisturbed for 60 seconds. Repeat application if layer has dried up. Evaporate solvent with a strong air stream.

APPLY TOOTH CONDITIONER GEL

Apply tooth conditioner gel to available enamel (and dentin). Rinse for 10 seconds. Blot dry to keep moist. Do not rub.

Caulk® 34% Tooth Conditioner Gel
Phosphoric Acid (2 syringes, 3 mL ea)
6 mL 64 61 25

APPLY ADHESIVE TO TOOTH

Apply Prime&Bond® XP Adhesive and leave it undisturbed for 20 seconds. Avoid pooling.

AIR DRY

Gently air dry for 5 seconds.

LIGHT CURE

Light cure adhesive for 10 seconds.

APPLY CALIBRA VENEER CEMENT

Dispense the desired Calibra Veneer Cement shade directly onto the veneer. Protect cement from exposure to light.

SEAT RESTORATION

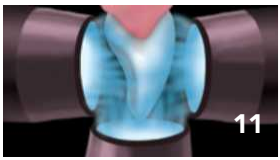
If possible, place mylar strips between preparation and adjacent teeth. Seat the restoration slowly.

CLEAN UP EXCESS

Tack the veneer in place by briefly light curing the gingival portion only for no more than 10 seconds.

REMOVE EXCESS CEMENT

Remove mylar strips and lift off excess cement around margins.



LIGHT CURE

Light cure marginal areas for 20 seconds from each direction – buccal, lingual, and interproximal aspects.

FINISH & POLISH

Removal of resin cement flash and finishing of the margins is best accomplished with the Enhance® Finishing System (see Instructions for Use).

Basic Maintenance

SW History | CEREC | SF Demo Cycles | inLab

Scanner

Standard Surface Cleaning

HLD Process (Optional)

Camera Calibration

Color Calibration

Milling & Suction Unit

Maintenance Schedule

Changing Burs

Changing Water

Calibrate

MC Care Liquid

Primemill Video List

Filter Bags & HEPA Filter

Primeprint Solution

Maintenance Menu

After Each Patient: Standard Surface Cleaning

Demo

Disinfection of Non-Critical Surfaces

Do the following immediately after use to prevent hardening of bodily fluids.

Lock the screen before cleaning by pressing simultaneously on the left and right trackpad buttons for approximately one second. The screen will turn dark and say “device is locked.”

Use a wipe with one of the approved cleaning and disinfection agents:

- Kerr CaviWipes™ (not CaviWipes1™)
- Clean, lint-free cloth which has been soaked in CaviCide (not CaviCide1™)
- Patterson Dental pdCARE Wipes
- Clean, lint-free cloth which has been soaked in >60% isopropyl alcohol
- Cotton gauze moistened with tap water and pH-neutral soap

Wipe #1: Touchscreen

Wipe the touchscreen and around the edges of the monitor.

Wipe #2: Touchpad / Handle

Using a new wipe, clean the touchpad area and front handle.

Wipe #3: Camera and Camera Holder

Using a new wipe, clean the camera and camera holder.

Be careful not to pull on the camera cord.

Wipe Disinfection of the Sapphire-Window Sleeve and Camera Body

Wipe #4: Sapphire-Window Sleeve

Using a new wipe, wipe the metal sleeve and allow the chemical to remain for the manufacturer's recommended kill time (usually 3 minutes).

Remove the chemical residue using a cotton gauze soaked with drinking water.

Dry with a lint-free cloth.

Wipe #5: Repeat

Repeat the prior step but this time wipe the camera body as well.

Again, **be careful not to pull on the camera cord.**

Other Options

For even greater disinfection, choose one of the following options:

Use a **special chemical bath** for the sleeve.

Details

Use a **dry-heat sterilizer** for the sleeve (not an autoclave).

Details

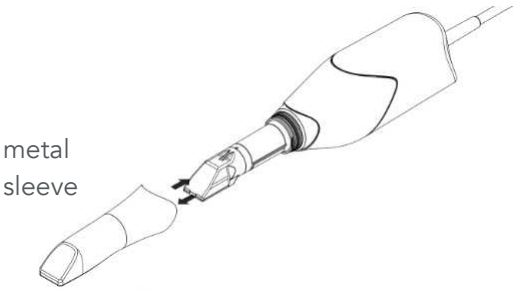
Use a **disposable plastic sleeve** instead of the metal sapphire-window sleeve.

66 86 880
Single-use Disposable Sleeves (50 ct)

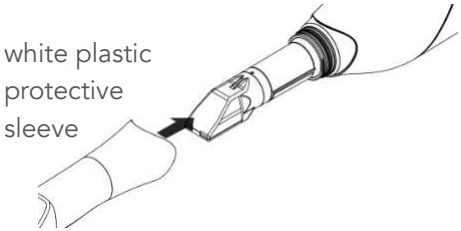
HLD (High-Level Disinfection) Demo

- Pre-clean the mirror sleeve (see the previous section: Standard Surface Cleaning).

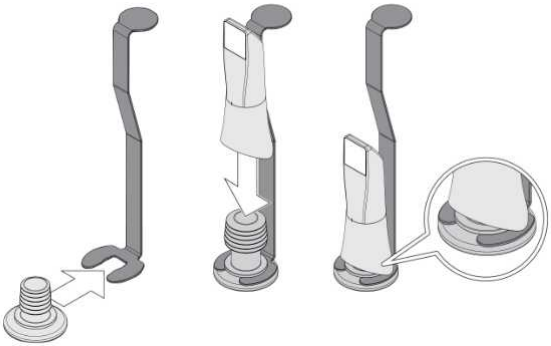
- Primescan: Pull to remove the metal sleeve.



- Place the **white plastic sleeve** on the camera tip and place the camera in the cradle.



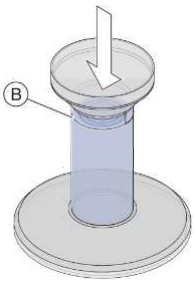
Place the mirror sleeve onto the plug while holding the metal holder to keep the inside of the sleeve dry and contamination-free.



Cautiously fill the HLD container (to B) using one of the following high-level disinfectants:

CIDEX® OPA

Sporox II*



Omnicam Kit #66 05 120
Primescan Kit #66 83 184

*Omnicam users:
Do not use Sporox II on nickel-plated sleeves (sleeves without the ST mark).

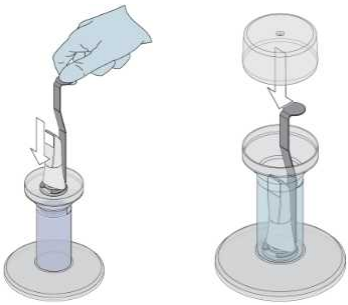
Note: Wear appropriate personal protective equipment while working with disinfectants. If spilled, please follow the manufacturer's safety protocol. When possible, stick with the same disinfecting agent. If you switch, thoroughly rinse the HLD set.

Lower the metal holder and mirror sleeve into the disinfectant. Cover with the cap while soaking:

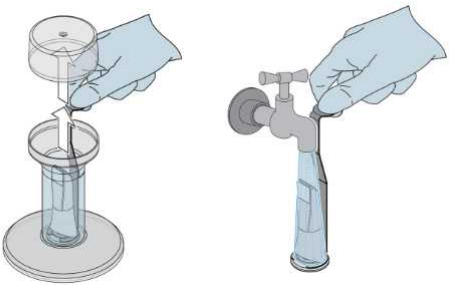
12 minutes, if using CIDEX® OPA

30 minutes, if using Sporox II

Prior to each use of the HLD set, test the solution for its effectiveness (per manufacturer's instructions). The mirror sleeve should be removed as soon as possible after the recommended time.

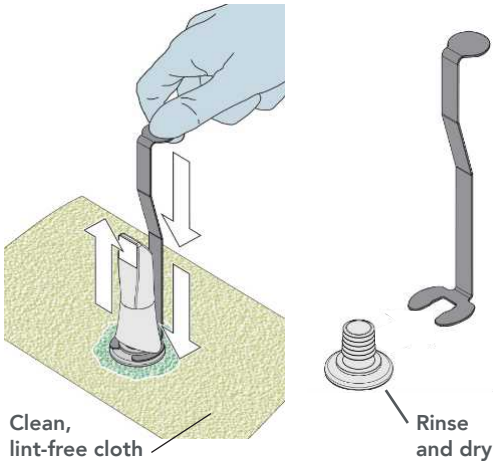


After removing, thoroughly rinse the mirror sleeve and its holder with tap water (for at least 30 seconds).

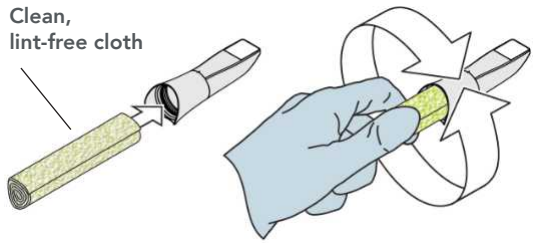


Carefully and slowly remove the mirror sleeve from the plug and holder. Keep the sleeve upright to prevent liquids from getting inside.

Remove the plug from the metal holder, rinse, and then dry with a clean, lint-free cloth. Return the metal holder to the container.



Dry the whole surface of the mirror sleeve and also the lower part of the inner surface using a clean, lint-free cloth.



Store the mirror sleeve in a manner to protect it from contamination until ready for use.

When ready, remove the protective white cap from the Omnicam/Primescan and reattach the sleeve, allowing it to lock in place.

Option B: Dry Heat Sterilization

- Pre-clean the sleeve, and remove from the camera.
- Sterilize the mirror sleeve using **dry heat** at 190° C for 6 minutes (unwrapped) or 12 minutes (wrapped*).

or

- **Dry heat** at 160° C for 60 minutes (unwrapped) or 120 minutes (wrapped*).

Dry heat units validated by Dentsply Sirona Dental Systems:

CPAC Cox RAPIDHEAT Sterilizer
Program 1: 190° C, 6 minutes, unwrapped
Program 3: 190° C, 12 minutes, wrapped*

CPAC SteriSURE
160° C, 60 minutes, unwrapped

CPAC Steridент Model 200
160° C, 120 minutes, wrapped*

***Use only pouches which are suitable for dry heat sterilization.**

Store the mirror sleeve in a manner to protect it from contamination until ready for use.

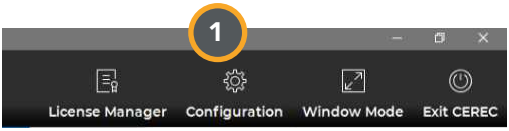
When ready, remove the protective white cap from the Omnicam/Primescan and reattach the sleeve, allowing it to lock in place.

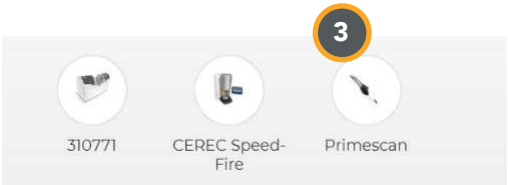
Note: The mirror sleeve changes color, but this will not have any negative impact upon the sleeve's durability.

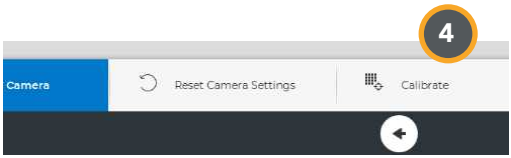
Monthly: Camera Calibration Demo

The Primescan must be allowed to warm up for two minutes before calibration.

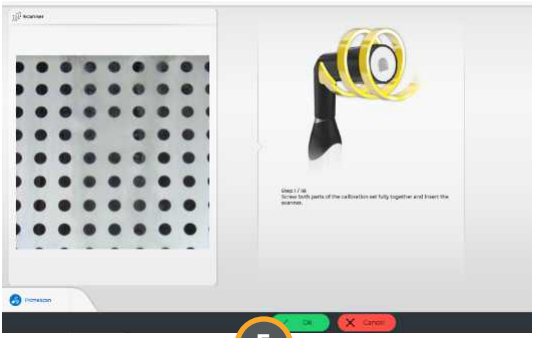
1 In CEREC SW 5.x, tap Configuration.
2 Tap Devices.
3 Tap Primescan.
4 Tap Calibrate.







5 Remove the protective cap from the calibration tool. Make sure the base is fully screwed in. Place the camera head into the calibration neck and tap OK. The camera performs a 30-second warm-up and captures the first image automatically.



5

6 Turn the base counterclockwise until you hear it click in place. The camera will take the next image automatically and prompt you to unscrew the base again (repeat this 17 times).

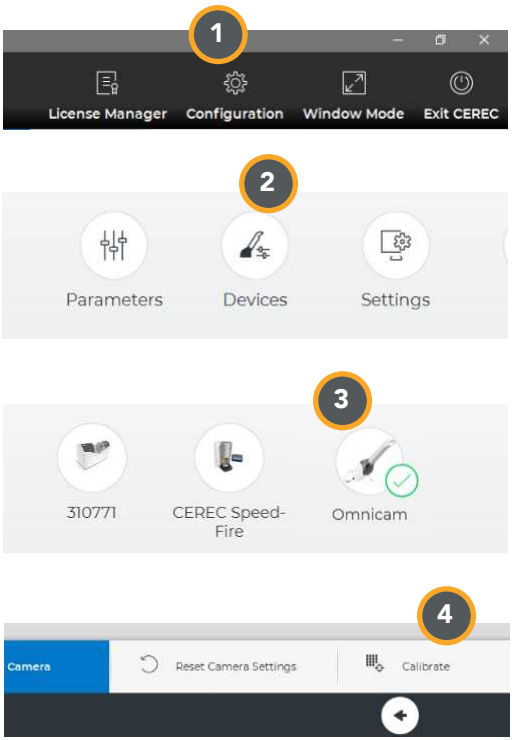
7 When instructed, remove the camera head from the calibration neck and insert it into the base of the tool. The camera captures the final picture automatically.

8 Remove the camera from the tool and place the camera back in the holster. Screw the base of the calibration tool in fully and replace the white protective cap.

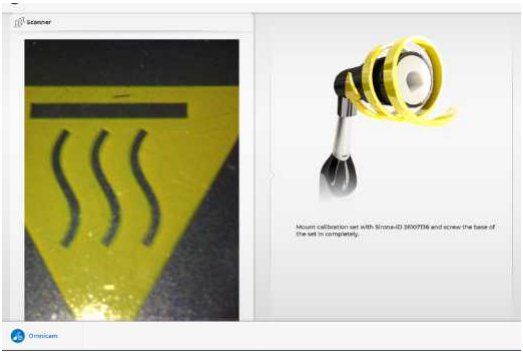
Once calibration is complete, tap OK.

Monthly: Camera Calibration

1 In CEREC SW 5.x, tap Configuration.
2 Tap Devices.
3 Tap Omnicam.
4 Tap Calibrate.



5 Make sure the displayed 8-digit ID matches your calibration tool, and that the base is fully screwed in. Place the camera into the calibration neck opening. Click OK.

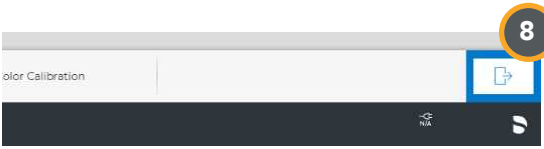


6 With the camera still in the neck of the calibration tool, unscrew the base one click and the software will advance (you'll do this 11 times).

7 When instructed, insert the camera into the base of the calibration tool and click OK.

8 After the software tells you that the calibration tool is no longer required, remove it and place the camera back in the holster. Screw the base of the calibration tool in fully and replace the white dust cap.

Once calibration reaches 100%, click OK twice, then click to exit.

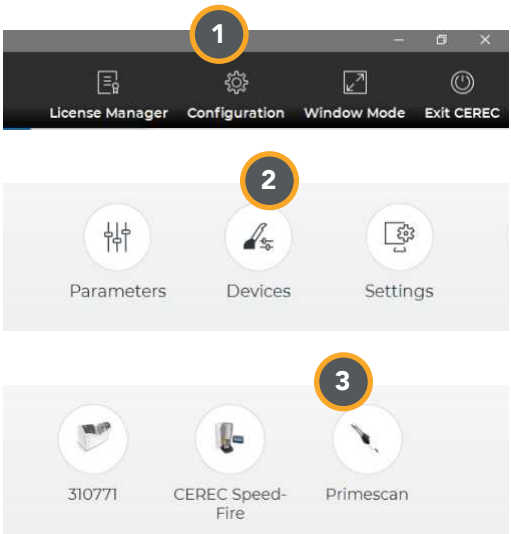


Every two weeks: Color Calibration

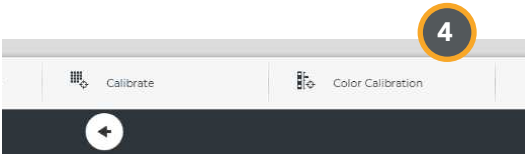
Demo

The system must be allowed to warm up for 20 minutes before color calibrating.

1 In CEREC SW 5.x, tap Configuration.
2 Click Devices.
3 Click Primescan or Omnicam.



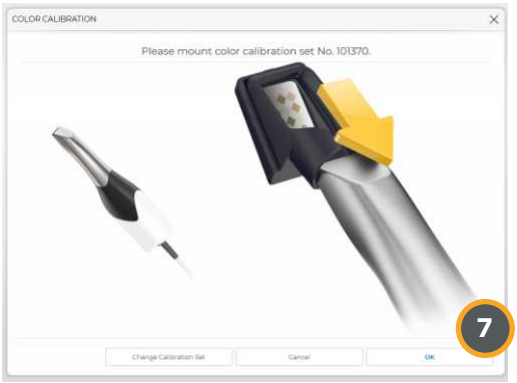
4 Tap Color Calibration.



5 When prompted, unscrew the metal container and remove the calibration tool.

6 Scan the QR code.

7 Place the color calibration tool over the head of the camera. Tap OK. The camera automatically takes the required images (about five seconds).



Tap Ok when complete. Remove the color calibration tool and place the camera back in the holster.

8 Return the color calibration tool to its metal case and close the lid tightly.

Daily

- Ensure water and Dentatec (58 09 640) mixture covers the tank filter.
- At the end of the day, remove and clean the sieve (2 on the MC X, MC XL). Wipe wet debris from the chamber and replace.

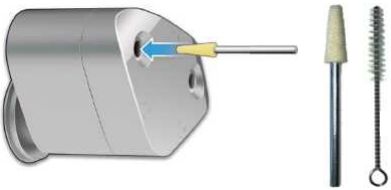
Clean milling chamber door with a microfiber cloth (paper towels can scratch the plastic and reduce the door's transparency over time).

Dry milling zirconia:

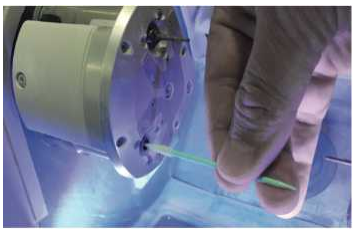
- Select **Cleaning Position** on the touchpad and vacuum debris.
- Keep the shafts lubricated by running a wet-cleaning process or wet-grinding cycle weekly.

Weekly (continued)

- Change water in the tank and add 75 mL Dentatec.
- Primemill: Clean motor shafts with felt cone and use brush to loosen harder dirt (67 18 451).



- MC X / MC XL: Clean bur chuck using special pointed swabs and ethanol (cleaning alcohol). Twist counterclockwise to carry out debris.

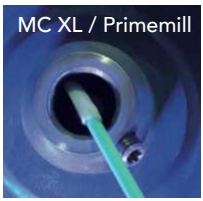


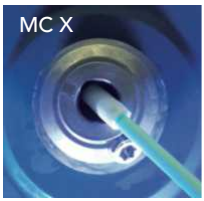
Monthly

- Change water filter and tank sponge (64 29 950, 6 pack) and check water level after first wet process.
- Use MC Care Liquid (66 31 191) with wet cleaning process for preventative care.

Regularly

- Check and clean water jets to ensure that water is striking the tips of the instruments (burs).
- Clean block chuck (manual block clamp) inside of the block axle. Use a round (green) cotton swab and undiluted ethanol (cleaning alcohol).





Dry-milled zirconia only:

Every 100-120 dry-milled zirconia restorations

- Change filter bag

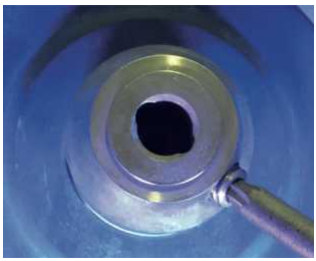
(change HEPA filter after every 4 filter bags)

Yearly

- Annual maintenance carried out by an authorized Technician

As needed

- Replace the ball-pressure screw (62 58 987) after every 200 blocks and the screwdriver blade* (67 11 340) after every 400.



For MC and MC X

- Replace the set screw (62 35 126) after every 1,000 blocks. To access it, go to Configuration ➜ Devices ➜ Milling Unit ➜ Change Set Screw

* A new ball-pressure screw and screwdriver blade are included in the annual preventative maintenance kit.

Changing Burs

On the CEREC Primemill, you can change the burs from the milling unit.

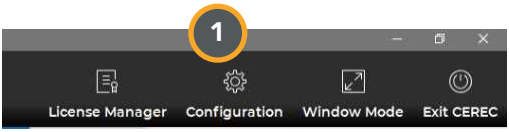
1 On the Home screen, tap Tool Set.

2 To change a single bur, tap Replace. To change Tool Sets (e.g., to change to Mill ZrO2 Super Fast), tap Change and follow the on-screen instructions.

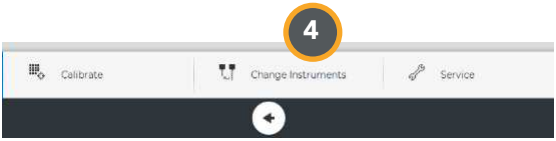
Changing Burs

When using the CEREC MC / MC X / MC XL:

1 Click Configuration.
2 Click Devices, and
3 Click your milling unit.

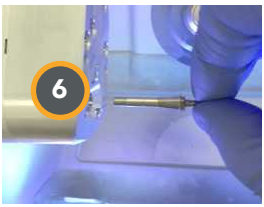


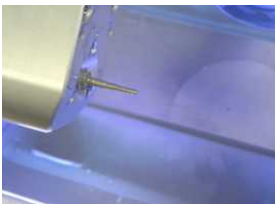
4 Click Change Instruments. If you have a four-motor milling unit, select which Bur Set you want to change (1 or 2). Press OK. The motors will rotate forward for easy access.



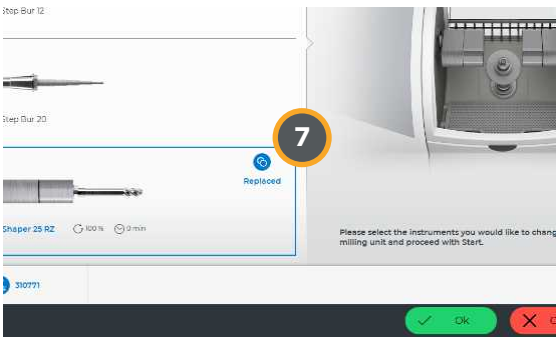
5 Using the bur wrench, remove both burs.

6 Insert new burs. Tighten with the bur wrench until you hear a click. Close the milling chamber door.





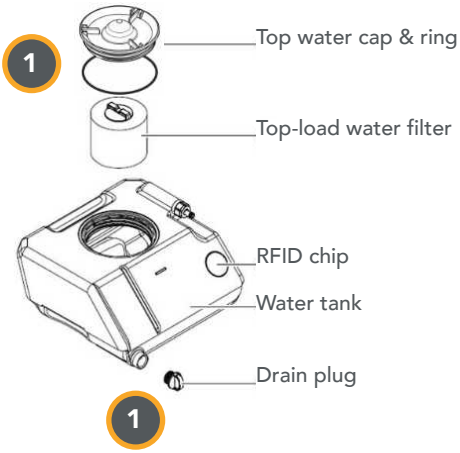
7 Click to select the burs you replaced (clicking changes *Installed* to *Replaced*). Click OK. Click Exit Configuration.



Changing Water Demo

Change the water at least once a week, or when prompted by the system after 240 minutes of wet milling/grinding.

1 Remove and rinse the drain plug and top water cap.

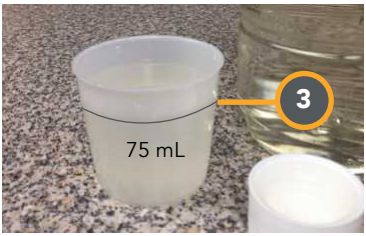


See next page

2 Under running water, rinse debris from the inside of the tank and from off the filter.

Reinsert the drain plug.

3 Add 75 mL of Dentatec oil to the tank.



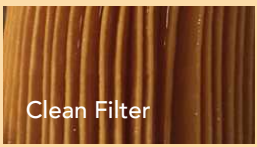
4 Fill the tank with water (to the bottom of the cover threads, approx. 3 liters).

5 Replace the top water cap (finger tight) and dry the outside of the tank. Place the tank back in the milling unit.

Use the water-tank wrench to loosen, never to tighten.

Install a new water filter about once a month (after 3-4 water changes).

Replace black sponge beneath the water filter with every filter change.



CEREC Primemill Reset Water Filter Date

Video

6 To update the date you changed the water and/or water filter, tap the milling unit icon (Routine Actions) on the touchscreen.

7 Go to Water Tank and tap Change.

Water tank status:
Green: Good
Orange: Almost time to change
Red: Change now

8 Tap Change, and then Confirm when done.

Tap here to see step-by-step instructions.

Changing Water

Change the water at least once a week, or when prompted by the system after 240 minutes of wet milling/grinding.

1 Remove and rinse the drain plug and top water cap.

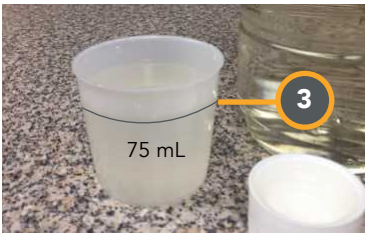
Use the water-tank wrench to loosen, never to tighten.

2 Under running water, rinse debris from the inside of the tank and from off the filter.

Reinsert the drain plug.

See next page

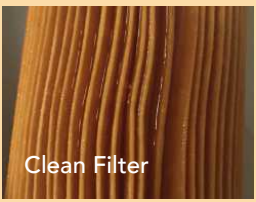
3 Add 75 mL of Dentatec oil to the tank.



4 Fill the tank with water (to the bottom of the cover threads, approx. 3 liters).

5 Replace the top water cap (finger tight) and dry the outside of the tank.

Install a new water filter about once a month (after 3-4 water changes).



Calibrate the Mill Demo

Calibration should be carried out once a year as part of the annual maintenance or as requested by technical support.

1 To calibrate the CEREC Primemill, tap the gear icon (Settings) on the touchscreen.

See next page

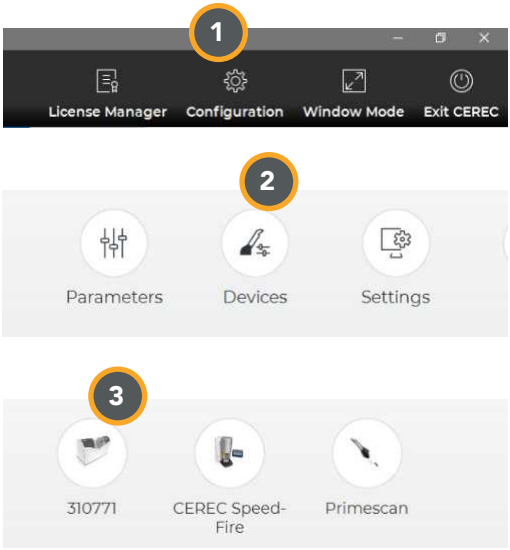
2 Scroll down and tap Calibration.

3 Tap Start and follow the on-screen prompts. After both motors have been calibrated and the pins removed, all four motors will be empty. Tap your desired Tool Set to scan and install the corresponding burs.

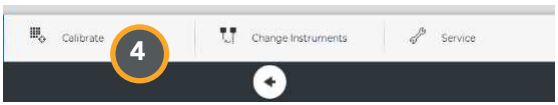
Calibrate the Mill

Calibration should be carried out once a year as part of the annual maintenance or as requested by technical support.

Click **1** Configuration, **2** Devices, and **3** milling unit.



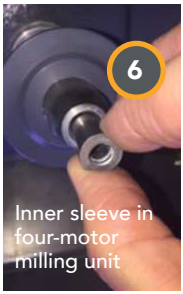
4 Click Calibrate. If you have a four-motor milling unit, select which Bur Set you want to change (1 or 2). Press OK. The motors will rotate forward for easy access.

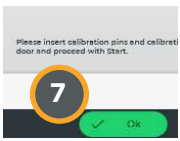


5 Using the bur wrench, remove both burs.

6 Install the calibration pins. Install the calibration body and tighten with the screwdriver. If you have a four-motor milling unit, you'll need to remove the inner sleeve first.

7 Close the milling chamber door. Click OK.

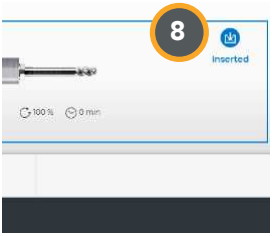


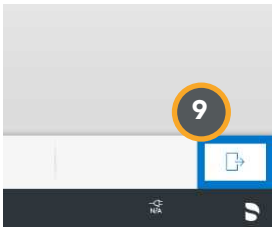


8 Once calibration is complete, remove the calibration pins and calibration body. Reinsert the burs and close the milling chamber door.

On the screen, click burs to change the status to Inserted. Click OK, and then click OK again.

9 Click Exit Configuration.





MC Care Liquid

MC Care Liquid (66 31 191) is a preventative care and cleaning concentration. Recommended cleaning interval: once a week.

Do not add MC Care Liquid to the Dentatec oil and water mixture used for processing restorations.

1 Drain the water tank and remove the filter.

2 Thoroughly rinse the tank with water.

3 Clean or replace the filter, if necessary.

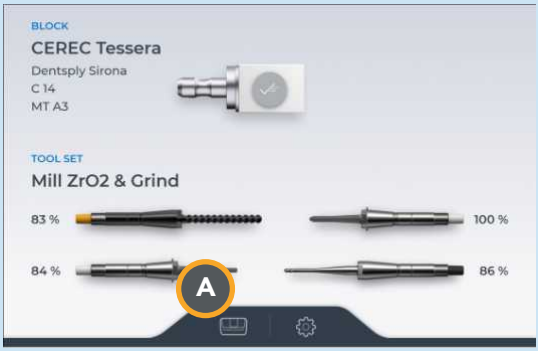
4 Fill the water tank to the normal level (until the filter is completely covered with water, approx. three liters).

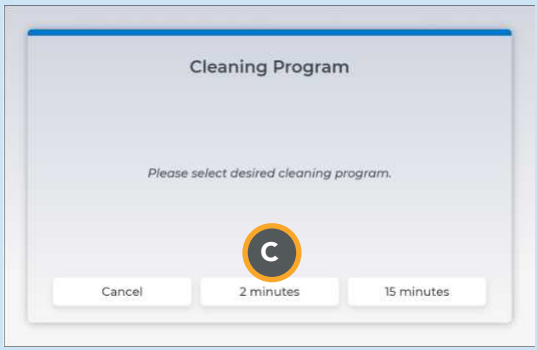
5 Add **15 mL of MC Care Liquid**.

6 Replace the tank lid.

7 Return the tank to the milling unit.

8 Start a cleaning program:

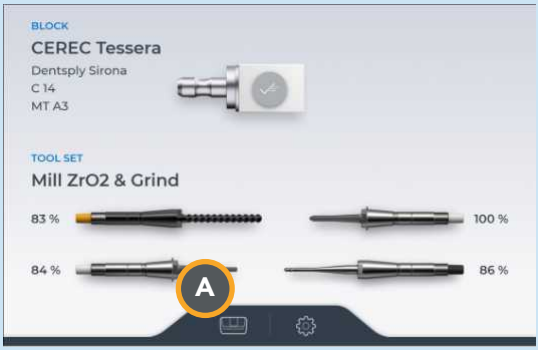




9 Repeat the cleaning program, if necessary.

10 Completely drain the tank and thoroughly rinse.

11 Replace the empty water tank to the milling unit and flush the lines:



The use of MC Care Liquid is as an optional step in the overall cleaning process intended to reduce the build-up of debris on the internal surfaces of the milling chamber.

For milling units with existing build-up, MC Care Liquid may be used undiluted to scrub those areas with a paper towel. Wipe away any residual cleaning liquid with a wet paper towel.

12 Empty the tank again and thoroughly rinse.

13 Fill the tank to the normal level (until the filter is completely covered with water, approx. three liters). Add 75 mL of Dentatec oil. Replace the tank lid, and return to the milling unit.

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1 Drain the water tank and remove the filter.

2 Thoroughly rinse the tank with water.

3 Clean or replace the filter, if necessary.

4 Fill the water tank to the normal level (until the filter is completely covered with water, approx. three liters).

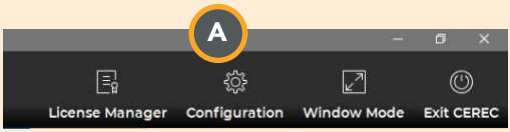
5 Add **15 mL of MC Care Liquid**.

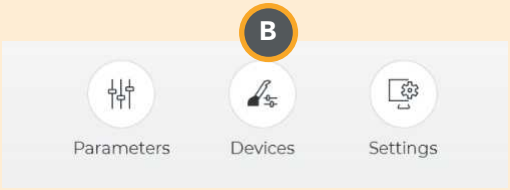
6 Replace the tank lid.

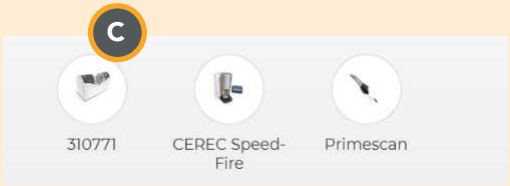
7 Return the tank to the milling unit.

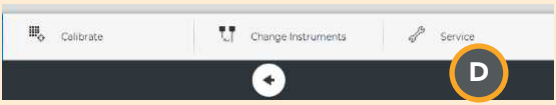
8 Start a cleaning process:

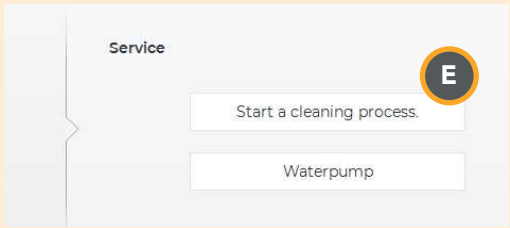
MC X / MC XL Milling Units









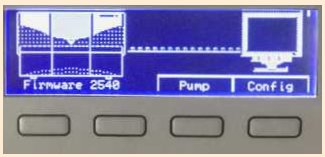


9 Repeat the cleaning process, if necessary.

10 Drain the tank and rinse thoroughly.

11 Replace the empty water tank to the milling unit and flush the lines:

Press the Pump button (or water wheel icon) on the front of the milling unit.



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For milling units with existing build-up, MC Care Liquid may be used undiluted to scrub those areas with a paper towel. Wipe away any residual cleaning liquid with a wet paper towel.

12 Empty the tank again and thoroughly rinse.

13 Fill the tank to the normal level (until the filter is completely covered with water, approx. three liters). Add 75 mL of Dentatec oil. Replace the tank lid, and return to the milling unit.

Primemill Videos

- Routine Actions: 2 or 15 min. Cleaning Process
- Routine Actions: Cleaning Position For Greater Access
- Routine Actions: Reset Filter Bags and HEPA Filter

Replace Filter Bags and HEPA filter

If there is a significant loss in suction power, the filter bag could be full and in need of replacing (after 100–120 restorations).

Filter Bag (65 78 095 2/pk)

1 Loosen and remove the two knurled nuts from the maintenance cover and remove.

2 Remove the bag from the nozzle and replace with a new one.

3 Replace cover and secure with the two knurled nuts.

HEPA Filter (63 85 277 1/pk)

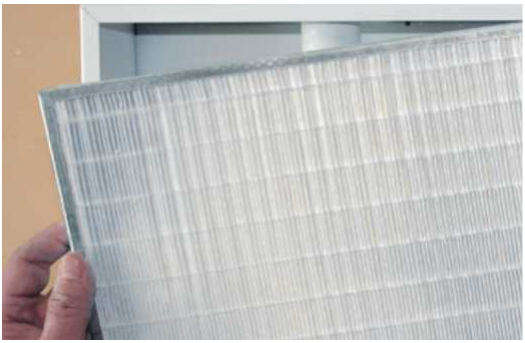
Change HEPA filter every 4th filter bag.

1 Unscrew the two knurled nuts from the maintenance cover and remove.

2 Remove the bag from the tube, and set aside.

3 Remove the two Phillips screws on the perforated sheet on the inside of the suction unit.

4 Remove the perforated sheet and HEPA filter.



5 Replace with a new HEPA filter.

6 Put the perforated sheet back on and secure in place using the two Phillips screws.

7 Put the filter bag back on again.

8 Replace the maintenance cover and attach the two knurled nuts.

Maintenance Menu

Primeprint

- Maintenance Schedule
- Clean Glass Pane
- Install a New Resin Cartridge
- Replace Sponge Insert
- Clean Overflow Vat
- Preheat Option
- Clean Material Unit
- Reset Primeprint Box
- Refurbish (Replace) the Foil
- Reassign Material Unit
- Print a Cleaning Layer
- Change Activated Carbon Filter

Primeprint PPU

- Remove Printed Objects
- Clean/Reset Washing Container
- Change the Three PPU Filters

Maintenance Schedule: Primeprint & Primeprint PPU

Daily: Nitrogen Tank

- Always notice the remaining psi on the main tank gauge. If less than 200 psi, consider changing the tank. Also, verify that the regulator-side gauge is 60 psi.

After Each Print Job

Demo

- Remove the object from the build platform, as well as any residue, using the Spatula. While wearing nitrile gloves, clean the metal surface and sides of the build platform with a paper towel moistened with isopropyl alcohol.

Often, at Least Every 14 Days*

Primeprint

- Check the glass plate of the projector for resin residuals or dust. Clean with Purosol Optics Cleaner (67 82 481) and the multi-use Microfiber Cloth (68 02 917).

*If the Material Unit is exchanged several times a week (or if in a dusty environment), check the glass more often. Place the Material Unit on its plastic tray to protect the underside from debris.

Monthly

- Inspect the inside of the Primeprint and Primeprint PPU. While wearing nitrile gloves, clean (if necessary) the following areas with a paper towel moistened with isopropyl alcohol:

  Primeprint: Inside the Collecting Container

  PPU: Lid of the light-curing chamber

- Exchange the Sponge Insert (67 54 241) in the Primeprint Box when soiled.

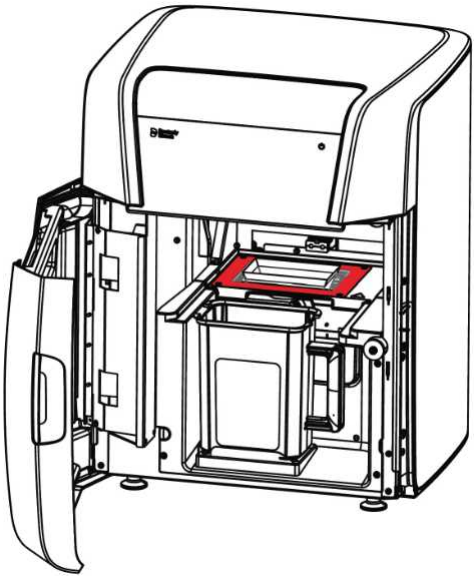
Yearly Maintenance

Parts

- Annual maintenance carried out by an authorized service technician.

Clean Glass Pane Demo

1 Remove the Material Unit (67 44 903) from the printer and while wearing nitrile gloves clean the metal heater frame around the glass pane with isopropyl alcohol.



See next page

2 One of the most important maintenance steps you can perform is to remove any debris or residue on the glass that can impair the sharpness of the projected image and lead to misprints due to obstructed or misdirected light.

Apply Purosol Optics Cleaner (67 82 481) and wipe with the multi-use Microfiber Cloth (68 02 917) until the surface of the glass is clear.

3 Reset the reminder date on the Primeprint touchscreen:

Routine Actions (printer icon) → Glass Plate → Confirm.

Install a New Resin Cartridge

Demo

1 Start with a clean Material Unit (67 44 903).

2 Open the box of a new resin cartridge.

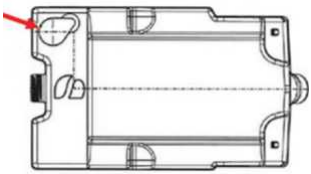
3 Apply the color-coded sticker to the left side of the Material Unit.

Apply the same colored drop-shaped stickers to the Washing Containers (67 45 546).

4 Shake the cartridge for 10 seconds.

5 Hold the cartridge upright and briefly press the valve in. The valve should then move back.

6 Remove the foil sticker from the cartridge.



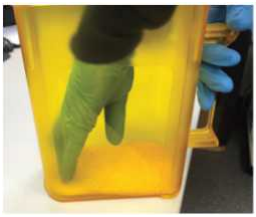
7 Insert the cartridge into the top of the Material Unit.

To remove, use the thumb slots and slide out.

Replace Sponge Insert (67 54 241)

At the bottom of the transportation container, there is a Sponge Insert which must be replaced from time to time at the user's discretion and depending on the degree of contamination.

1 Always wear gloves when removing the sponge insert which may contain areas of uncured printing resin.



2 After removing, place the sponge insert on a non-absorbent pad in direct sunlight to cure. After the resin has hardened on the sponge, it can be disposed of as normal waste.

3 Wipe the inside of the transportation container with a paper towel moistened with isopropyl alcohol until no more resin residue is visible.

4 Place a new Sponge Insert into the bottom of the transportation container.

5 Reset the reminder on the Primeprint:

Routine Actions (printer icon) → Sponge → Confirm.

Clean Overflow Vat (Collecting Container)

In the unlikely event of a foil tear and vat leak, the Collecting Container (67 57 434) will hold 450 ml of overflow.

Occasionally, a drop or two may fall into the Collecting Container as the build platform returns to the transfer box after printing.

1 To inspect the Collecting Container, slide the container up to release and then pull out.

2 While wearing nitrile gloves, clean any resin on the inside of the container with a paper towel moistened with isopropyl alcohol.

3 Reset the reminder on the Primeprint screen:

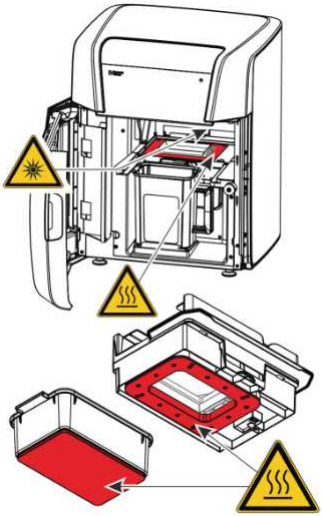
Routine Actions (printer icon) → Clean Overflow Vat → Confirm

Preheat Option

Demo

The resin in the vat is automatically preconditioned (mixed and heated) according to the manufacturer's guidelines.

The resin is heated by the metal frame beneath the Material Unit and the build platform in direct contact with the resin.



Areas marked in red on the diagram can become hot. Be careful when loading and unloading the Material Unit.

Preheating the resin before printing will reduce the print time. The benefit is greater if the resin was at room temperature (e.g., first job of the day). The benefit is less if the resin was already warm from a recent print cycle.

On the touch screen, select the amount of resin and the time it stays preheated.

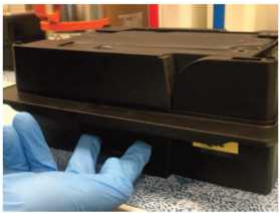
If you only have one Primeprint Box and preheat the resin, the metal surface of the build platform is coated with resin. When switching to a different resin type, the build platform must be cleaned.

Clean Material Unit

Always wear nitrile gloves and eye protection when working with resin.

1 Remove the Material Unit from the Primeprint.

2 Remove the top cover by unlatching the side and lifting it off.



3 Use tweezers to remove the Recoater from the vat. Place on a non-absorbent pad.

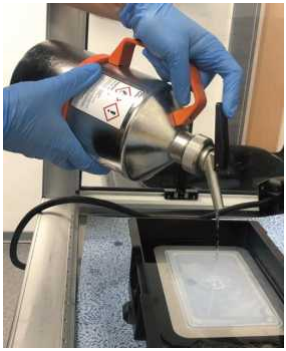
4. Transfer the resin from the vat to a disposable cup.

5 Use a DS playing card as a squeegee to remove the bulk of the remaining resin in the vat. Transfer this resin also to the disposable cup. Place the playing card on a non-absorbent paper towel.

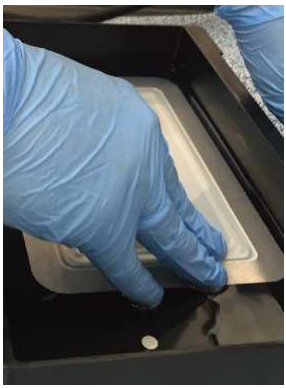
6 Using a paper towel, wipe out the inside of the vat.

See next page

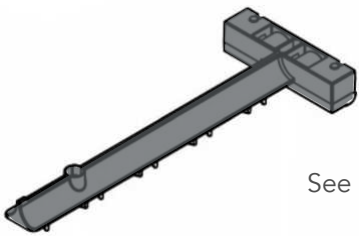
7 Add about half a cup (100 ml) isopropyl alcohol (>98%) to the vat so that the entire vat floor is covered. Allow it to react for 5 minutes.



8 Agitate the resin residue by rubbing the entire vat floor with your gloved fingers until no residue sticks to the vat floor.



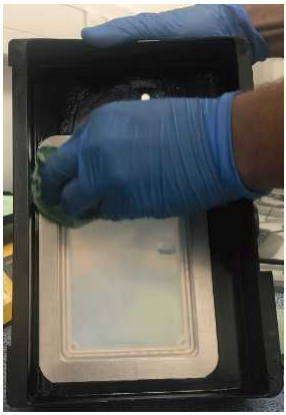
9 Clean the Recoater in a separate container with isopropyl alcohol (>98%) using your gloved finger or a toothbrush.



See next page

10 Pour the resin-contaminated alcohol into a reclosable disposal container dedicated for this purpose. Observe local waste disposal regulations.

11 Add a small amount of alcohol to the edges of the foil insert and clean the seams.



12 Wipe the vat with a clean cloth. Make sure that all resin residues are removed.

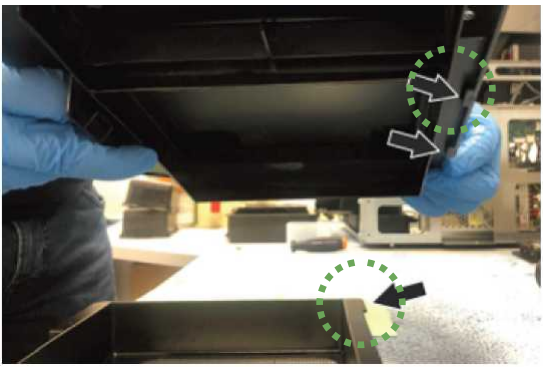
13 Repeat steps 10, 11, and 12, if needed to completely clean it.

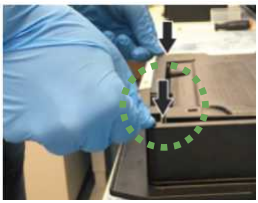
14 Place the clean (and dry) Recoater (67 57 483) in the vat. Notice that the smooth side is facing up with the T opposite the resin sticker on the face of the Material Unit.

See next page

15 Pour the resin from the disposable cup back into the vat (if not changing resin types) or into the cartridge (if changing resin types).

Replace the top cover of the Material Unit by aligning the back slats to the rim and then pushing down on the other side with light pressure until it clicks in place.





Reset Primeprint Box (67 44 895)

The Primeprint Box has an RFID chip on the build platform. The system assigns the print job to that chip.

If for some reason the job doesn't completely print (e.g., it falls off the build platform* or you cancel printing) you will need to clean the build platform and reset the Primeprint Box before it can be used for a new job.

To reset the Primeprint Box, use the Primeprint touch screen and tap:

Primeprint Box icon → Reset → Confirm

*If all or part of the print job falls off the build platform into the resin, the debris must be removed before printing again.

Place the larger resin-soaked remnants in the metal basket of the Individual Exposure Carrier (67 45 074). Place the carrier and its dedicated Washing Containers in the PPU to wash/cure before discarding.

If needed, filter the resin in the vat to remove any small remnants or debris after a printing failure.

Refurbish (Replace) the Foil

Demo

The Primeprint home screen displays the remaining foil fitness. The foil is a wear part and **should last approx. 250 to 300 jobs**. If the foil has been torn/damaged, you will notice resin leaking out of the vat into the Collecting Container.

If you have print errors even when the bottom of the vat is dry (no leaks) and the lower pane is clean, then **empty and clean the vat so you can visually inspect the foil.** If there are bubbles or liquid between the foil and glass plate, this also indicates that the foil is damaged and must be replaced.

First, clean the Material Unit. Always wear nitrile gloves and eye protection when working with resin-contaminated surfaces.

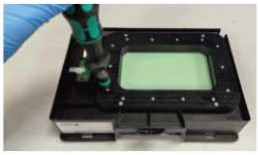
Remove the Clamping Frame and Sealing Ring from the Vat

1 Place a paper towel in the clean vat.

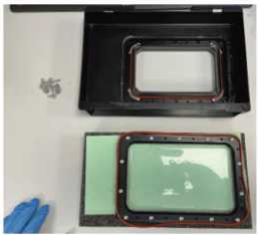
2 Place the black styrofoam block that came with the Material Unit on top of the paper towel.

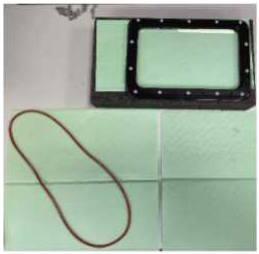
See next page

3 Flip the vat over so that it rests on top of the black styrofoam block and then remove all the screws from the clamping frame with the provided torx screwdriver.



4 Remove the old clamping frame and red rubber sealing ring. Set aside on a paper towel.





Cleaning

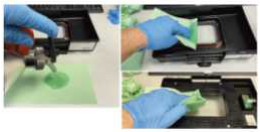
5 Place the ring on a crumbled-up paper towel moistened with isopropyl alcohol and massage gently. Do NOT pull on the ring (this could distort it).

6 Clean the clamp frame with a dry paper towel.

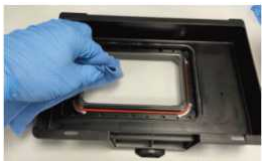
7 Clean the recess of the sealing ring with a dry paper towel but avoid touching the glass.

See next page

8 Clean both sides of the glass with a paper towel moistened with isopropyl alcohol. This may leave a misty haze on the glass.

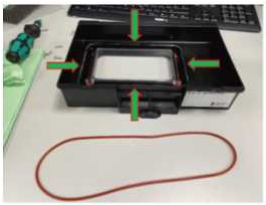


9 Buff both sides of the glass with the multi-use microfiber cloth. It may take 2 minutes per side to remove the haze.



Reassemble

10 Insert the sealing ring in the recess.



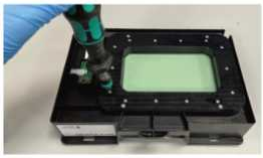
11 Take a new clamping frame (67 44 911) and insert it in the vat.

12 Place a paper towel on top.

13 Place the black styrofoam block on the paper towel.

See next page

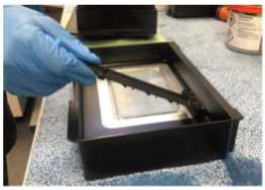
14 Flip the vat over so that it rests on top of the black styrofoam block. Replace the screws in the frame and tighten until the torx screwdriver clicks.



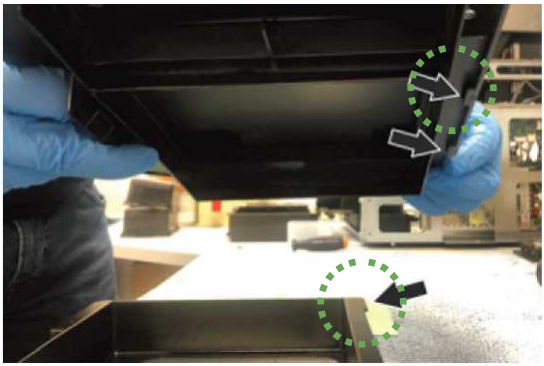
15 Flip the vat over and remove the styrofoam pad and paper towel.

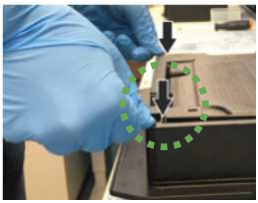
16 Before reusing the vat, place it on a dry paper towel. Fill with water and leave it for about 15 minutes. If the paper towel gets wet, that indicates there is a leak. Redo the entire replacement procedure.

17 Dry the vat and place a clean Recoater (67 57 483) in the vat as shown below (smooth side facing up and the T is opposite the sticker.).



18 Replace the top cover of the Material Unit by aligning the back slats to the rim and then pushing down on the other side with light pressure until it clicks in place.





Reassign Material Unit

Both the Material Unit and resin cartridge have RFID chips. After inserting a cartridge into the Material Unit and placing both in the Primeprint for the first time, the touch screen prompts the user to pair the two.

When replacing a cartridge of the same resin type, the system automatically reassigns (pairs) the replacement cartridge to the Material Unit.

We recommend having a dedicated Material Unit and Washing Containers for each resin type used.

If changing resin types, thoroughly clean the Material Unit first and then insert a prepared cartridge of the new resin type. Place both in the Primeprint.

On the touch screen (see below), tap:

Material Box → Material (Change) → Confirm → Select the new resin type

Print a Cleaning Layer

In the rare event of a printing error, layers can stick to the foil instead of to the build platform. Fragments of a failed print job could also fall into the resin and hinder subsequent print jobs. For these situations, printing a cleaning layer is recommended.

1 Remove the Material Unit from the Primeprint. Please wear nitrile gloves and eye protection while working with resin.

For failed print jobs, remove any large pieces in the vat with your gloved hand. Place on a paper pad.

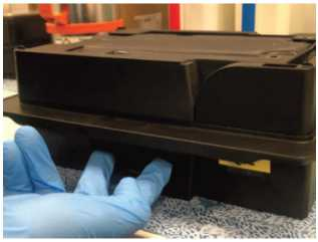
2 Return the Material Unit to the Primeprint.

3 On the Primeprint touchscreen, print a cleaning layer by selecting:

Routine Actions (printer icon) → Cleaning Layer→ Confirm → Confirm (2nd time)

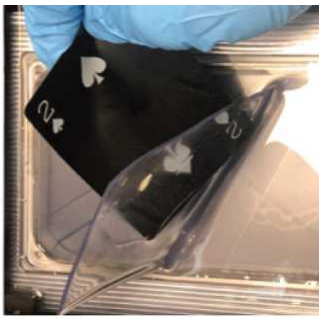
See next page

4 Remove the Material Unit from the Primeprint. Remove the top cover by unlatching the side and lifting it off.



5 Slightly tilt the vat to better visualize the bottom of the vat and the edge of this thinly cured layer on top of the foil.

6 Take one of the DS playing cards (67 53 631) and gently pry up the edge of the cured layer. Remove it with your gloved hand.



7 Place it and any other large pieces you removed in step 1 on a leak-proof pad. Set in the sunlight until cured. Dispose of the hardened resin and pad in the garbage.

8 Replace the lid on the Material Unit and return it to the Primeprint.

Change Activated Carbon Filter

Replace the Activated Carbon Filter (67 47 823) on the Primeprint when prompted to do so by the system.

Although Instructions are included in the packaging of the new filter, most users will rarely need to do this since the filter is replaced during the annual maintenance visit.

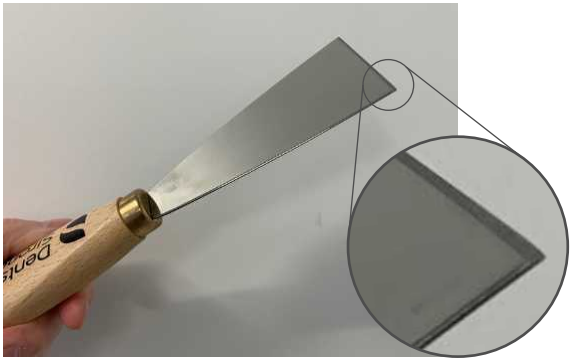
Remove Printed Objects

1 Carefully lift the build platform out of the Primeprint box after washing/curing in the Primeprint PPU.

2 Place the build platform on the Platform Holder (either lengthwise or crosswise).

Choose the orientation that best allows you to get under the supports of the printed object to be removed with the supplied spatula.

See next page



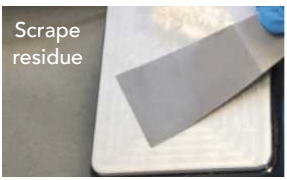
3 To prevent injury, always move the spatula away from you, towards the plastic shield.

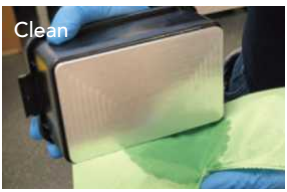
With the DS logo on the handle facing up, carefully place the beveled edge of the spatula under the edge of the supports that are most easily accessible.

Demo

After removing the job, also scrape away any residue on the Build Platform.

While wearing nitrile gloves, clean the metal surface and sides of the Build Platform with a paper towel moistened with isopropyl alcohol.





Clean/Reset Washing Container

Clean the Washing Containers

If the cleaning agent is saturated (indicated by a low tank-life percentage on the touch screen) or to use the Washing Containers with another resin type, clean the Washing Containers.

1 To do this, remove the cover and pour half of the used cleaning agent into a sealable disposal container.

2 Replace the cover making sure the hinges are engaged. Lock the cover by rotating the handle to the locked position.

3 Gently swirl the remaining cleaning agent.

4 Rotate the handle to the unlocked position, remove the cover, and pour the remaining cleaning agent into the disposal container.

5 If there are heavy deposits at the bottom of the container, add a half an inch (1 cm) of new cleaning agent and repeat steps 2–4 before refilling.

See next page

1 Verify that the red float and the magnetic stirrer are inserted properly and can move freely. The metal screen must be used.

2 Mark the handles of the Washing Container with the color-coded drop-shaped stickers included with each new resin cartridge.

3 Fill the Washing Containers with washing agent so that the level is between the max. and min. markings inside.

4 Replace the cover. Make sure the hinges are fully engaged.

The cover of the Washing Containers must be closed, **but not locked**.

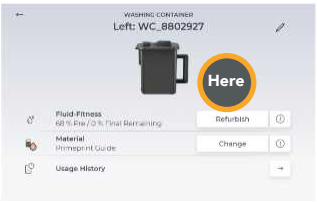
Insert the Washing Containers into the left and center slots of the Primeprint PPU. It does not matter which tank goes into which slot. But make sure the lifting arm is in the cover's notch, as shown to the right.

See next page

5 Tap the Washing Container Icon:

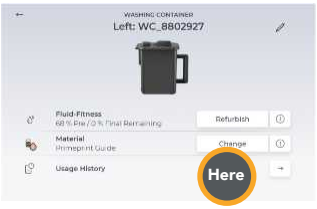
To reset the Washing Container life to 100% for the same resin type, tap:

Fluid-Fitness (Refurbish) → Yes



To change resin assignment, tap:

Material (Change) → Yes → Resin Type

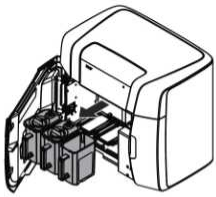


Change the Three PPU Filters

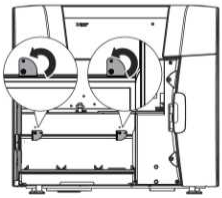
The filters are replaced as part of the annual maintenance visit. However, with heavy use, the system may prompt the user to change a filter between visits.

Activated Carbon Filter (67 45 603)

1 Open the door and remove the two Washing Containers and the Primeprint Box.

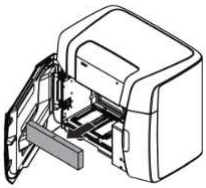


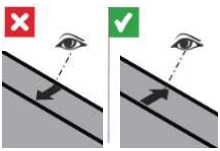
2 To release the filter, rotate the two knobs 90° counterclockwise.



3 Gently pull the small tabs on both sides of the filter to remove.

Pay attention to the direction of the airflow arrow on top.





4 Insert a new filter matching the same direction of the air flow arrow on top.

5 To hold the filter in place, rotate the knobs 90˚ clockwise.

Ozone Filter (67 52 138)

Always replace the Ozone Filter when the system prompts you to do so.

1 The Ozone Filter is located behind and underneath the PPU. Unlatch and pull out the drawer.

2 Remove the filter and insert a new one (foam side up).

3 Push the drawer in completely and engage the latch.

Air Filter For the Curing Light (67 56 295)

Always replace the air filter for the light-curing chamber when the system prompts you to do so.

1 Open the door and remove the Primeprint Box and the center Washing Container.

2 Pull the filter holder out from the side of the opening.

3 Remove the used filter from the filter holder and replace with a new one.

4 Push the filter holder back into the slot until flush.

5 Reinsert the Washing Container and close the door.

Approved Blocks

Listed By Manufacturer

Listed By Material Type

Milling Modes

Comprehensive Block Details

Strength Topics

Understanding Strength Data

What is Fracture Toughness?

Restorative Esthetics

What Matters Most?

"Convert" 3D Shades to Classical

When To Use HT, LT, and MT

Popular Shades To Stock

Dentsply Sirona	MPa
CEREC Tessera™ (March, 2021)	>700 Biaxial
Celtra® Duo (ZR lithium silicate, 2015)	210-370 3P
Blocs C, Blocs C PC (Feldspathic, 2007)	154 ± 15 3P
CEREC® Guide 2 & 3 (Acrylic, 2015, 2019)	n/a
CEREC Zirconia+ (Aug, 2021)	>1000 3P
CEREC MTL Zirconia (Oct, 2021)	>850 3P
VITA	
VITABLOCS® Mark II (feldspathic, 1991)	154 ± 15 3P
VITABLOCS Triluxe Forte (feldspathic, 2007)	154 ± 15 3P
VITABLOCS RealLife® (feldspathic, 2010)	154 ± 15 3P
Suprinity® PC (ZR lithium silicate, 2019)	420 3P
ENAMIC (2013), multiColor (2017), ST (2018)	150-160 3P
ENAMIC IS (Implant Solutions, 2016)	150-160 3P
CAD-Temp® Block (mono, 2007) and (multi)	>80 3P
YZ® HT (3Y Unshaded zirconia, 2014)	1200 3P
Ivoclar Vivadent	
IPS e.max® (2007) & abutments (2014)	530[1] Biaxial
IPS Empress® (2006) & Empress Multi (2006)	185[2] Biaxial
Telio® CAD-Temp (2010)	135 Biaxial
Telio® CAD-Temp Abutment A16 (2015)	135 Biaxial
e.max® ZirCAD LT (Zirconia, 2017)	1200[3] Biaxial
e.max® ZirCAD MT Multi (Zirconia, 2019)	850 Biaxial
Tetric® CAD (nano-hybrid composite, 2018)	272 Biaxial
Kuraray Noritake	
KATANA™ Zirconia STML (2018, bridge 2019)	763 3P
KATANA™ Zirconia ONE (2022)	933 3P
KATANA™ AVENCIA LT (2019)	233 Biaxial
Merz	
artBloc® Temp (PMMA, 2010)	93 3P
3M™	
Paradigm™ MZ100 (2000)	146-157 3P
Lava™ Ultimate (2011)	170-200 3P
Chairside Zirconia (2019)	1000 3P
GC America	
CERASMART™ (2014, resin hybrid)	230 3P
CERASMART™ 270 (2020, resin hybrid)	245 3P
Initial™ LRF (2017, leucite-reinfor. feldspar)	200 3P
Initial™ LiSI (2021, lithium disilicate)	408 Biaxial
SHOFU / COLTENE	
SHOFU BLOCK HC (2L) and HC (2016)	191 3P
COLTENE BRILLIANT Crios (2016)	198 3P

1 e.max's 530 MPa = ave. biaxial flexural strength, not 3-point bending (360 MPa)
2 Ivoclar lists Empress as 160 MPa biaxial. 185 MPa biaxial is the 10-year average
3 Also listed as ≥ 900 MPa biaxial. 1200 MPa is the average biaxial value

ZIRCONIA

3Y Zirconia	MPa
VITA YZ HT (Unshaded)	1200 3P
Ivoclar e.max ZirCAD LT	≥900 / 1200 Biaxial

4Y and greater Zirconia	
DS CEREC Zirconia+	>1000 3P
3M Chairside Zirconia	1000 3P
Kuraray Noritake KATANA Zirconia ONE	933 3P
DS CEREC MTL Zirconia	>850 3P
Kuraray Noritake KATANA Zirconia STML	763 3P
Ivoclar e.max ZirCAD MT Multi	850 Biaxial

GLASS CERAMICS

High-Strength (1.0 mm Bonded, 1.5 mm Cement)	
DS CEREC Tessera (ALD)	>700 Biaxial
DS Celtra Duo: fired	370 3P, 560 Biaxial
VITA Suprinity PC (ZR lithium silicate)	540 Biaxial
Ivoclar IPS e.max (lithium disilicate)	360 3P, 530 Biaxial

High-Aesthetic (1.5 mm Bonded)	
DS Celtra Duo: polished	210 3P, 413 Biaxial
GC Initial LiSi (lithium disilicate)	408 Biaxial
GC Initial LRF (leucite-reinfor. feldspar)	200 3P
Ivoclar IPS Empress and Empress Multi	185 Biaxial
DS Blocs C, Blocs C PC (feldspathic)	154 ± 15 3P
VITABLOCS Mark II (feldspathic)	154 ± 15 3P
VITABLOCS Triluxe Forte (feldspathic)	154 ± 15 3P
VITABLOCS RealLife (feldspathic)	154 ± 15 3P

RESIN

GC CERASMART 270	245 3P
GC CERASMART	230 3P
COLTENE BRILLIANT Crios	198 3P
SHOFU BLOCK HC (2L) and HC	191 3P
3M Lava Ultimate	170-200 3P
Ivoclar Tetric CAD	272 Biaxial
VITA ENAMIC, ENAMIC multiColor	150-160 3P
Kuraray Noritake KATANA AVENCIA	233 Biaxial

PMMA

Merz Dental artBloc Temp	93 3P
Ivoclar Telio CAD	135 Biaxial
VITA CAD-Temp monoColor/multiColor	>80 3P

CEREC Primemill Modes

Dentsply Sirona	SFast	Fast	Fine	EF[1]	SW
CEREC Tessera™		X	X	X	5.2.3
Celtra® Duo			X	X	
Blocs C, Blocs C PC		X	X	X	5.1.3
CEREC® Guide medi			X		5.1.3
CEREC Zirconia+	dry	X	X	X	5.1.3 MP
CEREC MTL Zirconia	dry	X	X	X	5.1.3 MP
VITA					
VITABLOCS® Mark II		X	X	X	5.1.3
VITABLOCS Triluxe Forte		X	X	X	5.1.3
VITABLOCS RealLife®		X	X	X	5.2.0
Suprinity PC		X	X	X	
ENAMIC, multiColor, ST		X	X	X	
ENAMIC IS		X	X	X	
CAD-Temp® mono/multi		X	X	X	5.1.2 MP
YZ® HT	dry	X	X	X	
Ivoclar Vivadent					
IPS e.max® 12, 14, 16, abut		X[1]	X	X[2]	5.2.0
IPS e.max® 32, 40			X		5.1.3
IPS Empress® & Multi			X	X	5.2.2
Telio® CAD-Temp / A16		X	X	X	5.1.2 MP
e.max® ZirCAD LT		X	X	X	
e.max® ZirCAD MT Multi	dry	X	X	X	
Tetric® CAD		X	X	X	5.2.2
Kuraray Noritake					
KATANA™ Zirconia STML	12z	X	X	X	
KATANA™ Zirconia ONE	X	X	X	X	5.2.4
KATANA™ AVENCIA LT		X	X	X	
Merz Dental GmbH					
artBloc® Temp		X	X	X	
3M					
Lava™ Ultimate		X	X	X	
Chairside Zirconia	dry	X	X	X	
GC America					
CERASMART™ & 270		X	X	X	
Initial™ LRF & LiSi Block		X	X	X	5.1.3
SHOFU / COLTENE					
SHOFU BLOCK HC		X	X	X	
SHOFU HC (2L)		X	X	X	5.1.3
COLTENE BRILLIANT Crios		X	X	X	

[1] IPS e.max: Fast mode for crowns only (not inlays, veneers, bridges or abutments).

[2] IPS e.max: Extra-Fine grinding not yet available for bridges.

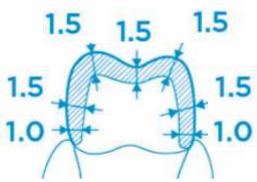
CEREC Blocks

- Dentsply Sirona
- VITA
- Ivoclar Vivadent
- Kuraray Noritake / Merz
- 3M™ / GC America
- SHOFU / COLTENE

Dentsply Sirona

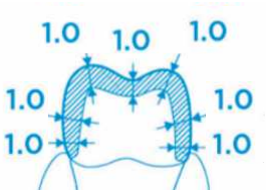
Dentsply Sirona CEREC Tessera (https://www.dentsplysirona.com/en-us/discover/discover-by-brand/cerec-tessera.html) click to go there!
Use ≥ SW 5.1.3 material pack or inLab 20

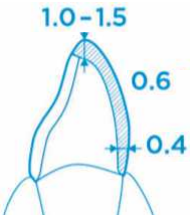
Conventional Cementation (Retentive Prep)

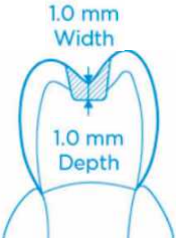


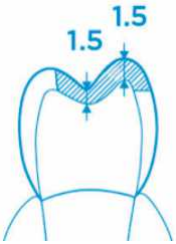
Taper between 4° and 8°
minimum coronal length: 4.0 mm
Round internal line angles

Adhesive Bonding









Dentsply Sirona CEREC Tessera™

First intro: March 2021, 700 MPa, Biaxial / 550 MPa, 3P Advanced Lithium Disilicate (ALD) and Virgilite*
Size: 14 (4/box) HT (A1, A2); MT (A1-A3.5, B1, D2, C1); MT/LT (BL2)

*Lithium Aluminum Silicate

HT

(SEM) Scanning Electron Microscope Images

BL1 BL2 BL3 BL4

B1 **A1** B2 **D2** **A2** **C1** C2 D4

A3 D3 B3 **A3.5** B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

MT

Click to go to workflow

BL1 BL2 BL3 BL4

B1 **A1** B2 **D2** **A2** **C1** C2 D4

A3 D3 **B3** **A3.5** B4 **C3** A4 C4

MT/LT

BL1 **BL2** BL3 BL4

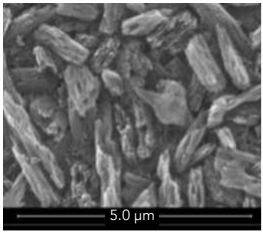
B1 A1 B2 D2 A2 C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

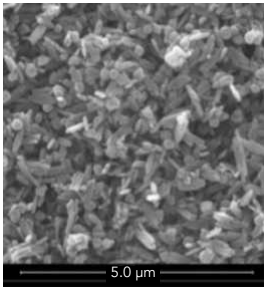
Treat	5% HF 30 sec. (don't air abrade)
Conv/Bond	Either (depending of prep/reduct)
Oven	CS 10:40 Spray; CS4 16:00 Spray
SpeedFire	4:30 Spray or Paint-on (no FAN)
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

Return

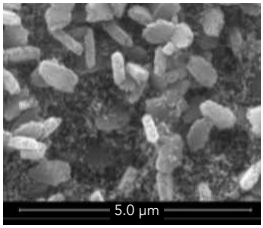
IPS e.max® CAD LT



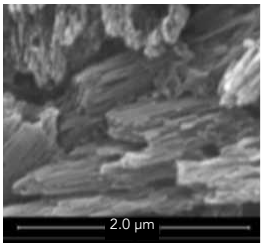
CEREC Tessera™ LT



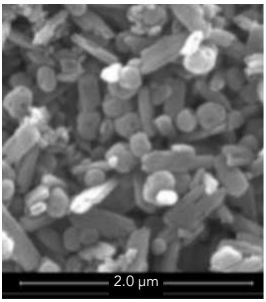
Celtra® Duo LT



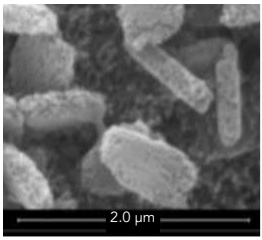
IPS e.max CAD LT

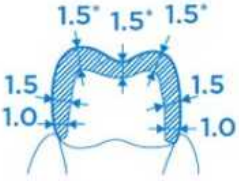


CEREC Tessera LT

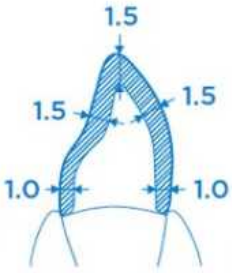


Celtra Duo LT

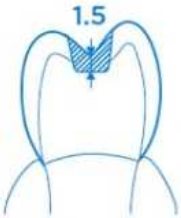




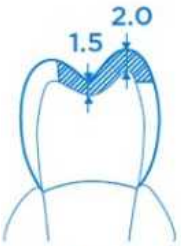
Crown
posterior



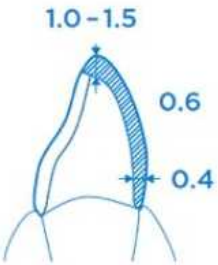
Crown
anterior



Inlay



Onlay



Veneer

Dentsply Sirona Celtra® Duo

First introduced (approx.) 2015, 210-370* MPa 3 point
Zirconia-reinforced lithium silicate ZLS
Size: 14 (4/box)

*Biaxial: 413 MPa polished
560 MPa fired

HT (esp. for inlay/onlay):

BL1 BL2 BL3 BL4

B1 A1 B2 D2 A2 C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

LT (esp. for crowns)

Click to go to workflow

BL1 BL2 BL3 BL4

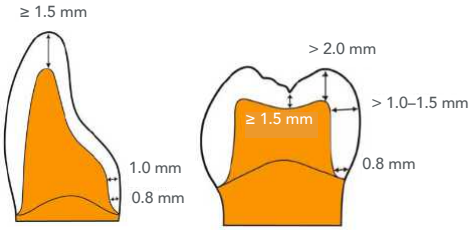
B1 A1 B2 D2 A2 C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

Treat	5% HF 30 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS Custom (10:00-12:30), CS4 17:00
SpeedFire	10:50 min. (FAN)
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

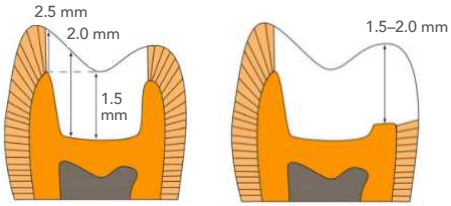
Dentsply Sirona Feldspathic (Blocs C, C PC)

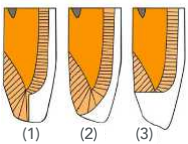
Crowns



Inlays/Onlays/Veneers

Min. depth at bottom of fissure: 1.5 mm
Min. depth at edge of cavity: 2.0 mm
If the edge of the cavity comes to rest near the cusp tip: 2.5 mm
Min. width of proximal step: 1.5 mm
Angle between lateral wall of proximal box and proximal surface: ≥ 60°





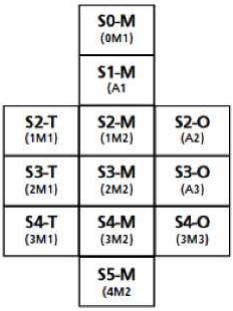
1) Labial-incisal "chamfering" without extension
2) A slight reduction allows for a thicker ceramic layer for an individual characterization
3) For "extension", flatten incisal edge and round off edge

Average labial reduction: 0.5 mm

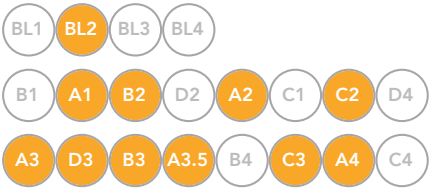
Sirona CEREC Blocs / Blocs C

Reintroduced (approx.) 2007, 154 ± 15 MPa, 3 point Feldspathic porcelain
Sizes: 8, 10, 12, 14 (8/box)

Before May, 2015, called Blocs
12 Dentsply Sirona shades
3 Translucencies: T, M, O



After May, 2015, called Blocs C
Sizes: 10, 12, 14 (8/box)



Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (10:50*), CS4 (custom)
SpeedFire	11:40 (top temp. 850 °C)
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

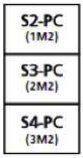
*Using VITA AKZENT Spray Glaze (VITA #B5051075)

Predry. °C	→ min	↗ min	↗ °C/min	approx. temp. °C	→ min	VAC min
500	4:00	5:37	80	950	1:00	–

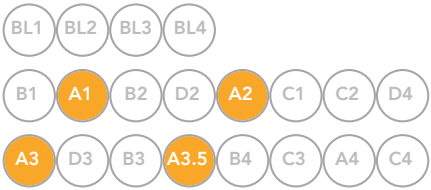
Sirona CEREC Blocs PC / Blocs C PC

Reintroduced (approx.) 2007, 154 ± 15 MPa, 3 point Feldspathic porcelain
Sizes: 12, 14, 14/14 (14x14x18)

Before May, 2015, called Blocs PC only in 3 Dentsply Sirona shades



After May, 2015, called Blocs C PC
Sizes: 12, 14, 14/14 (8/box)



Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (10:50*), CS4 (custom)
SpeedFire	11:40 (top temp. 850 °C)
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

*Using VITA AKZENT Spray Glaze (VITA #B5051075)

Predry. °C	→ min	↗ min	↗ °C/min	approx. temp. °C	→ min	VAC min
500	4:00	5:37	80	950	1:00	–

Sirona CEREC® Guide Bloc

First intro. CG2 2015; CG3 Dec. 2019 (SW 5.1 MP*)
Acrylic (used with Sirona keys and sleeves)
Sizes: medi (55 x 40 x 22), maxi (85 x 40 x 22)

*For the Primemill: Jan 2021, SW 5.1.3

CEREC Guide Bloc (1/pk)

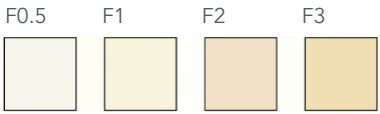
medi	64 66 564
maxi	64 47 093

MCXL	12S 12 20 **25RZ** EF 25
Primemill	Z&G Z-EF Z-SF **P&G** P-EF G-EF

Understanding the inCoris family

Blue = inCoris blocks currently available in SW 5.2.7 Primemill

Size	Discontinued Jan 2020 inCoris ZI	inCoris TZI	Discontinued Aug 2021 inCoris TZI C	CEREC Zirconia
14/13 mono S	F0.5, F1 F2, F3			
20/19 mono L	F0.5, F1 F2, F3	F0 (white)	ten shades	ten shades
40/15	F0.5, F1 F2, F3	-	-	-
40/19 medi S	F0.5, F1 F2, F3	F0 (white)	ten shades	ten shades
55/19 medi L	F0.5, F1 F2, F3	F0 (white)	-	-
65/25	F0.5 F1, F2	-	-	-
65/40 maxi S	F0.5 F1, F2	-	-	-
65/40 maxi M	-	-	A1, A2 A3	-
85/40 maxi L	F0.5 F1, F2	-	-	-
20/19 meso (S) or (L)	F0.5 F2	Discontinued Aug 2022		



Sirona inCoris ZI meso Discontinued Aug 2022

First introduced (approx.) 2009, > 900 MPa, 3 point Zirconium oxide (cement retained abutment blocks)
Size: mono L = 20/19 (S) or (L) 1/box

When ordering, specify the hole size (S) or (L)

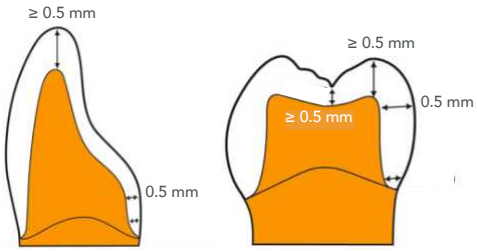
Treat	Air Abrade
Conv/Bond	Cement to TiBase[1]
Oven	CS4 (not capable of approved cycle)
SpeedFire	35:30 dry mill (FAN)
MCXL	12S 12 **20** **25RZ** 12EF **25**
Primemill	**Z&G** Z-EF Z-SF P&G P-EF G-EF

[1]PANAVIA™ F 2.0 and Alloy Primer, see CEREC Zirconia meso technical document (or use Ivoclar Multilink® Hybrid Cement HO 0.)

F0.5 — Very bright/white. Infiltrate to achieve the desired stump shade.

F2 — Approximately the shade of vital dentin, similar to ND1-ND2 on Ivoclar's Natural Die Shade guide.

Photos courtesy of Dr. Chris Roska and Spear Education (cdocs.com)



CEREC Zirconia+

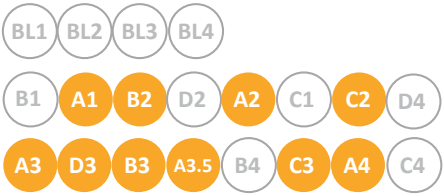
Crown*	≥ 0.5 mm	Connectors
Anterior	≥ 0.5 mm	≥ 9 mm
Posterior	≥ 0.5 mm	≥ 12 mm

Bridges with no more than 2 pontics.

*When using Super Fast Milling, increase minimal wall thickness to 0.7 mm

Dentsply Sirona CEREC® Zirconia+

First introduced (approx.) Aug 2021, >1000 MPa
Zirconium oxide, wet or dry mill
Sizes: mono = 20/19 (crowns, 3/box)
medi = 44/19 (bridges, 3/box)



Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air Abrade
Conv/Bond	Either (Conventional cement pref.)
Oven	CS4 (69:00 sintering, 10:30 glaze)
SpeedFire	14:00–25:00 (FAN) 7:22/9:30 glaze
MCXL	12S 12 20 **25RZ** 12EF **25**
Primemill	**Z&G Z-EF Z-SF** P&G P-EF G-EF

Sintering Dry-milled restorations

Start	Heating rate 1	Temp. 1	Holding time 1	Heating rate 2	Temp. 2	Holding time 2	Cooling Rate	Temp. 3	Action
°C	°C/min	°C	min	°C/min	°C	min	°C/min	°C	Open door
RT	99	800	5	50	1510	30	99	750	

Glaze cycle

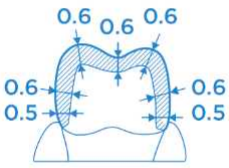
Drying	Closing	Pre-heating temperature	Pre-heating	Heating rate	Final temperature	Vacuum	Holding time	Cooling
min	min	°C	min	°C/min	°C	min	min	min
0	2	400	0	55	760	0	2:00	0

Fast Boot* (all shades)	SpeedFire (Dry)
< 2.0 thickness (~0.7 fissure)	14:00
< 2.5 thickness (~1.0 fissure)	18:00
< 3.0 thickness (~1.5 fissure)	21:00
< 3.5 thickness / Bridges	25:00

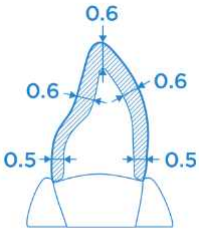
*Fast Boot means pre-heating the SpeedFire to 400 °C.

Dentsply Sirona CEREC MTL™ Zirconia

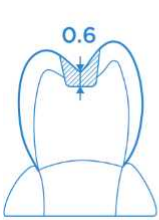
For Super Fast Milling it is recommended to increase the minimum wall thickness to 0.7mm.



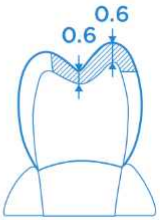
Crown
posterior



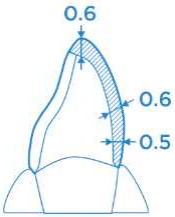
Crown
anterior



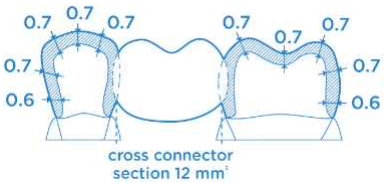
Inlay



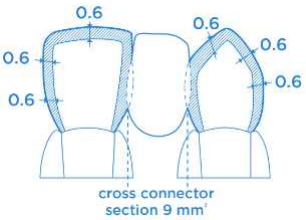
Onlay



Veneer



Bridge
posterior



Bridge
anterior

Dentsply Sirona CEREC MTL™ Zirconia

First introduced: Oct 2021, > 850 MPa, 3 point
Esthetic 4Y Layered Zirconia (crown and bridge)
Sizes: 20/19 (mono, 4 box), 20/39.2 (medi, 2 box)

MTL = Multi-Transitional Layer (seemless color gradient, not bands)

BL1 BL2 BL3 BL4

B1 **A1** **B2** **D2** **A2** C1 **C2** D4

A3 D3 B3 **A3.5** B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air Abrade
Conv/Bond	Either (Conventional cement pref.)
Oven	CS4 (69:00 sintering, 10:30 glaze)
SpeedFire	18:48–20:48 min. (FAN) 9:00 glaze
MCXL	12S 12 20 **25RZ** 12EF **25**
Primemill	**Z&G Z-EF Z-SF** P&G P-EF G-EF

Shades (< 4 mm thickness)	SpeedFire (Dry)
A1, A3.5	18:48
A2, C2	19:58
A3, B2, D2	20:48
> 4 mm thickness (Bridges)	25:22

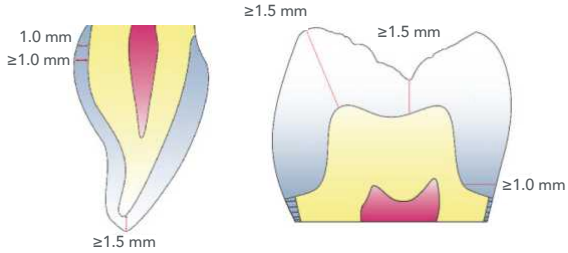
Do NOT pre-heat the CEREC SpeedFire

With SW 5.2.4 : Up to 3 restorations can be sintered in the SpeedFire.

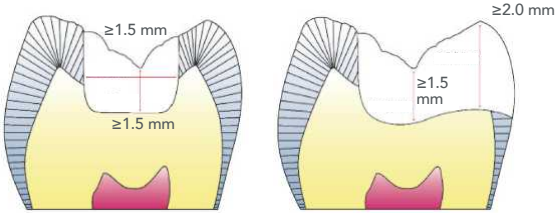
VITA

- Prep Guidelines
- VITABLOCS® Mark II
- VITABLOCS TriLuxe forte
- VITABLOCS RealLife®
- Prep Guidelines
- Suprinity PC (partially crystallized)
- Prep Guidelines
- ENAMIC®
- ENAMIC multiColor
- ENAMIC ST
- ENAMIC IS (abutment)
- Prep Guidelines
- CAD-Temp® monoColor
- CAD-Temp multiColor
- Prep Guidelines
- YZ® HT

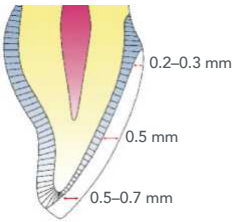
Crowns



Inlays/Onlays



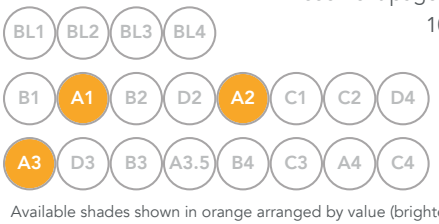
Veneers



VITABLOCS® Mark II

First introduced (approx.) 1991, 154 ±15 MPa, 3 point Feldspathic porcelain
Sizes: 8* (5/box) in 2 Classic and 9 3D Shades

*see next page for sizes 10, 12, 14



Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (10:50*), CS4 (custom)
SpeedFire	11:40 (top temp. 850 °C)
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

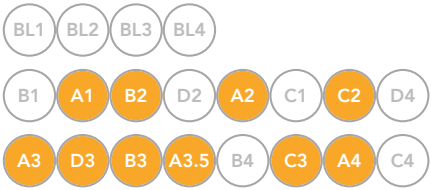
*Using VITA AKZENT Spray Glaze (VITA #B5051075)

Predry. °C	→ min	↗ min	↗ °C/min	approx. temp. °C	→ min	VAC min
500	4:00	5:37	80	950	1:00	–

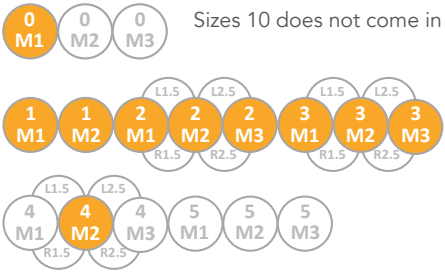
VITABLOCS® Mark II (continued)

Feldspathic porcelain
Sizes: 10, 12, 14 (5/box) 40/19* (2/box)

*40/19 in shades 1M1, 1M2, 2M2, 3M2
for Rapid Layer Technique, not for monolithic permanent bridges



Available shades shown in orange arranged by value (brightest to darkest)



Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (10:50*), CS4 (custom)
SpeedFire	11:40 (top temp. 850 °C)
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

*Using VITA AKZENT Spray Glaze (VITA #B5051075)

Predry. °C	→ min	↗ min	↗ °C/min	approx. temp. °C	→ min	VAC min
500	4:00	5:37	80	950	1:00	–

VITABLOCS® TriLuxe forte

First introduced (approx.) 2007, 154 ±15 MPa, 3 point Feldspathic porcelain (4 layers)
Sizes: 12, 14, 14/14 (5/box), 40/19* (2/box)

*40/19 only in 3D shades 1M2, 2M2, 3M2 for Rapid Layer Technique, not for monolithic permanent bridges

BL1 BL2 BL3 BL4

B1 **A1** B2 D2 **A2** C1 C2 D4

A3 D3 B3 **A3.5** B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

0 M1 0 M2 0 M3

0M1 and 1M1: 12 and 14 only

1 M1 **1 M2** 2 M1 **2 M2** 2 M3 3 M1 **3 M2** 3 M3

L1.5 L2.5 R1.5 R2.5

4 M1 4 M2 4 M3 5 M1 5 M2 5 M3

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (10:50*), CS4 (custom)
SpeedFire	11:40 (top temp. 850 °C)
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

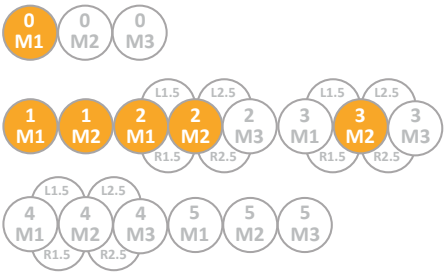
*Using VITA AKZENT Spray Glaze (VITA #B5051075)

Predry. °C	→ min	↗ min	↗ °C/min	approx. temp. °C	→ min	VAC min
500	4:00	5:37	80	950	1:00	–

VITABLOCS® RealLife®

First introduced (approx.) 2010, 154 ± 15 MPa, 3 point Feldspathic porcelain (dentin core for anterior teeth)
Size: 14/14 (5/box) CEREC Primemill: Use SW 5.2

Natural translucency surrounding a dentin core to simulate the incisal translucency of anterior teeth



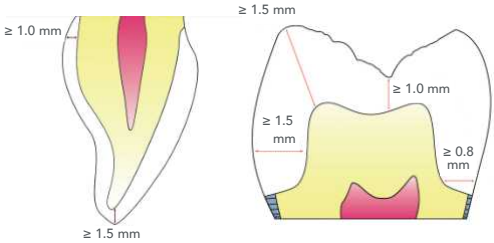
Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (10:50*), CS4 (custom)
SpeedFire	11:40 (top temp. 850 °C)
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

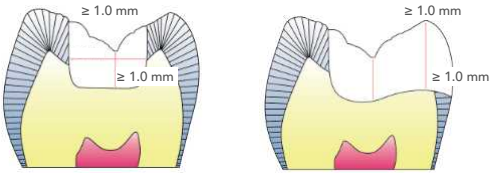
*Using VITA AKZENT Spray Glaze (VITA #B5051075)

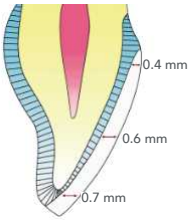
Predry. °C	→ min	↗ min	↗ °C/min	approx. temp. °C	→ min	VAC min
500	4:00	5:37	80	950	1:00	–

Crowns



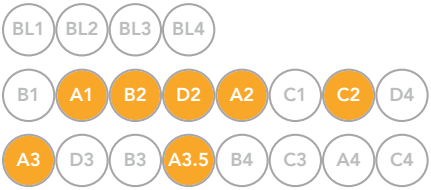
Inlays/Onlays/Veneers



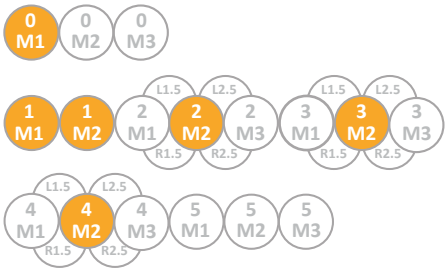


Suprinity® PC (Partially Crystallized)

Introduced (approx.) 2019, 540 MPa Biaxial; 420, 3 P
Zirconia-reinforced glass ceramic, (541 Bi-Axial)
Size: 14 (5/box), T (translucent) and HT (high trans.)



Available shades shown in orange arranged by value (brightest to darkest)



Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Adhesive Bond or Cement
Oven	CS (26:40[1]), CS4 (not approved)
SpeedFire	34:05[2], up to 3 restorations
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

[1]23:00 when tested in the VITA 6000M oven (spray glaze).
[2]VITA AKZENT Plus GLAZE LT SPRAY (VITA# B5052075)

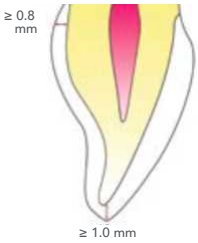
VITA VACUMAT

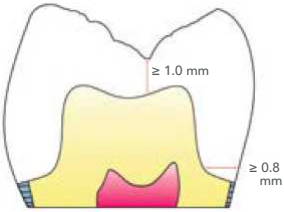
Predry. °C	→ min.	↗ min.	↗ °C/min.	T °C	→ min.	VAC min.	↘ °C*
400	4:00	8:00	55	840	8:00	8:00	680

Programat Ivoclar Vivadent

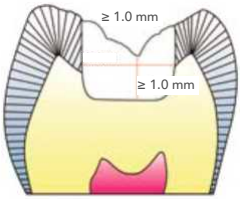
B [°C]	S [min.]	t [°C/min.]	T [°C]	H [min.]	Vac. 1 [°C]/ Vac. 2 [°C]	L [°C]	tL*
400	4:00	55	840	8:00	410 / 839	680	0

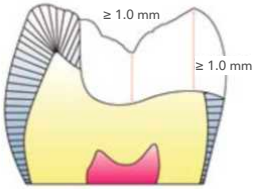
Crowns

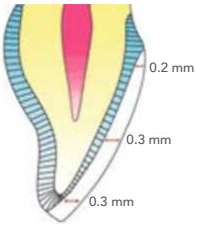




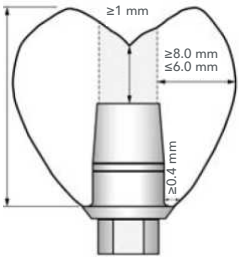
Inlays/Onlays/Veneers

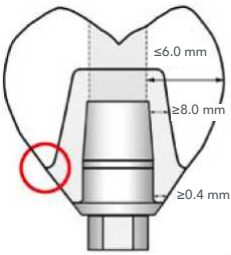






VITA ENAMIC® IS (Implant Solutions)

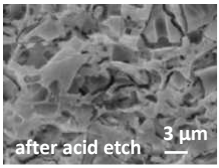


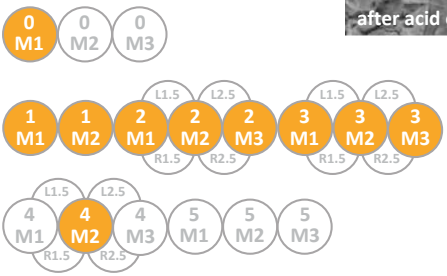


VITA ENAMIC®

First introduced (approx.) 2013, 150-160 MPa, 3 point
Hybrid ceramic (Resin and 86% ceramic by weight)
Sizes: 10 (HT only, 5/box), 14 (HT, T, 5 box)

HT (High Translucent)
T (Translucent)





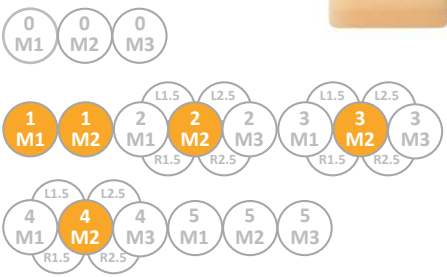
Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

VITA ENAMIC® multiColor

First introduced (approx.) 2017, 150-160 MPa, 3 point Hybrid ceramic (Resin and 86% ceramic by weight)
Size: 14 HT, 16 HT 5 box

Six layers



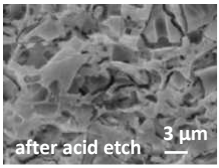
Available shades shown in orange arranged by value (brightest to darkest)

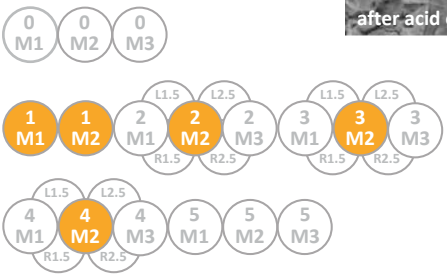
Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

VITA ENAMIC® ST (enamel replacement)

First introduced (approx.) 2018, 150-160 MPa, 3 point
Hybrid ceramic (Resin and 86% ceramic by weight)
Sizes: 14 (Super Translucency, 5 box)

Good for micro-veneers, veneers, inlays, onlays





Available shades shown in orange arranged by value (brightest to darkest)

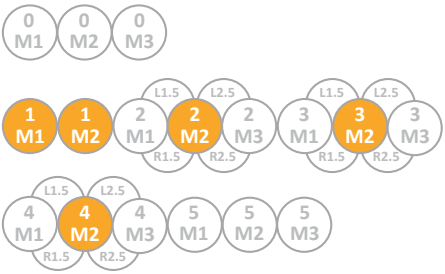
Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

VITA ENAMIC® IS (Implant Solutions)

First introduced (approx.) 2016, 150-160 MPa, 3 point
Hybrid ceramic (Resin and 86% ceramic by weight)
Sizes: IS-14 T (cement retained abutments, 5 box)
IS-16 HT* (screw retained abutments, 5 box)

*HT is closer to LT when compared to other blocks

When ordering, specify the hole size (S) or (L)



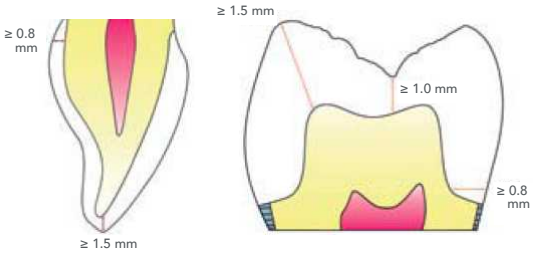
Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Abutment cement[1]
Oven	Never
SpeedFire	Never
MCXL	**12S** 12 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

[1]Ivoclar Multilink® Hybrid Cement (HO 0)

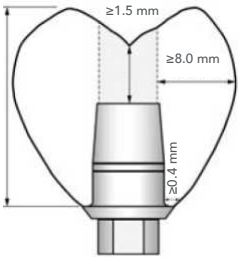
VITA CAD-Temp® monoColor and multiColor

Crown & Bridge



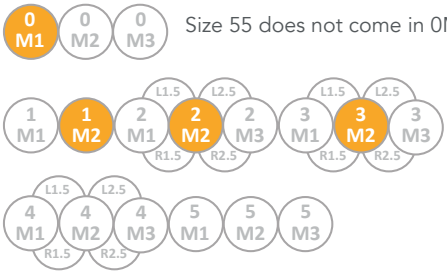
Bridge	Pontics	Connectors
Anterior	1-2	12 mm^2
Posterior	1	12 mm^2
Posterior	2	16 mm^2

VITA CAD-Temp® IS (Implant Solutions)



VITA CAD-Temp® monoColor

First introduced (approx.) 2007, > 80 MPa, 3 point
Acrylate polymer with microparticle filler (MRP)
Sizes: 40 (2/box), 55 (1/box)



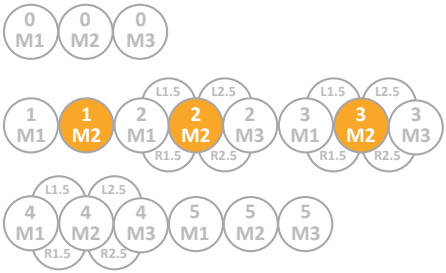
Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air Abrade
Conv/Bond	Compat. with all prov. cements
Oven	Never
SpeedFire	Never
MCXL	**12S** 12 20 **25RZ** 12EF 25
Primemill	Z&G Z-EF Z-SF **P&G** **P-EF** G-EF

CAD-TEMP is approved as a long-term provisional, up to 3-years in-situ

VITA CAD-Temp® multiColor

First introduced (approx.) 2007 > 80 MPa, 3 point Acrylate polymer with microparticle filler (MRP)
Size: 40 (2/box) banded translucencies in the block

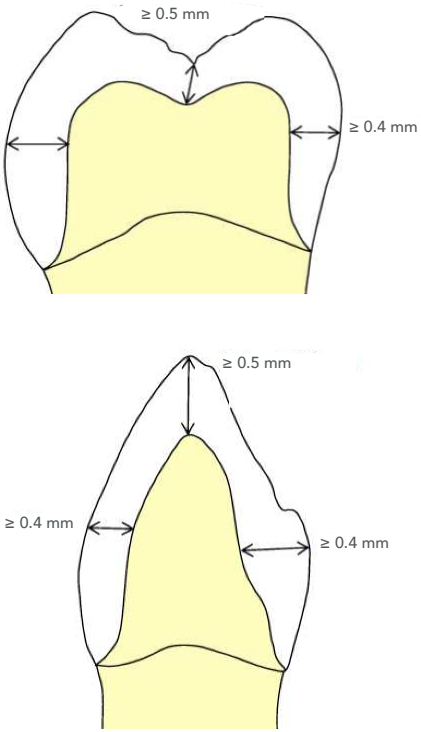


Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air Abrade
Conv/Bond	Compat. with all prov. cements
Oven	Never
SpeedFire	Never
MCXL	**12S** 12 **20** **25RZ** 12EF 25
Primemill	Z&G Z-EF Z-SF **P&G** **P-EF** G-EF

CAD-TEMP is approved as a long-term provisional, up to 3-years in-situ

VITA YZ® HT (must be dipped for shade)



VITA YZ® HT (must be dipped for shade)

	Wall Thick.	Connectors
Anterior (1 pontic)	≥ 0.5 mm	≥ 7 mm
Posterior (1 pontic)	≥ 0.6 mm	≥ 9 mm
Post. (2 pontic/cant)	≥ 0.7 mm	≥ 12 mm

VITA Zirconia YZ® HT (Zirconia)

First introduced (approx.) 2014, 1200 MPa, 3 point
Zirconium oxide 3Y (crown and bridge, must infiltrate)
Sizes*: 20/19 (crown, 4 box), 40/19 (bridge, 2/box)

*also comes in sizes 55/19 (2/box) and 65/25 (1/box) for MC XL PL, too big for SpeedFire

Unshaded blocks (white)

Treat	Air Abrade
Conv/Bond	Either (Conventional cement pref.)
Oven	CS4 >3.5 hours (38 min drying first)
SpeedFire	Yes* (FAN)
MCXL	12S 12 **20** **25RZ** 12EF **25**
Primemill	**Z&G** **Z-EF** **Z-SF** P&G P-EF G-EF

*12:15 drying, 14-18 min sintering, 9-12 min optional glaze

VITA YZ HT

	%	T0 °C	min.	°C/min.	T1 °C	min.	°C	%
VITA YZ HT Universal	—	25	83:49	17	1450	120:00	200	100
Pre-Dry VITA YZ HT SHADE LIQUID	50	25	7:21	17	150	30:00	—	50

*VITA recommends drying the infiltration liquids prior to sintering (38 minutes). Afterwards, the restoration is sintered for 3.5 hours.

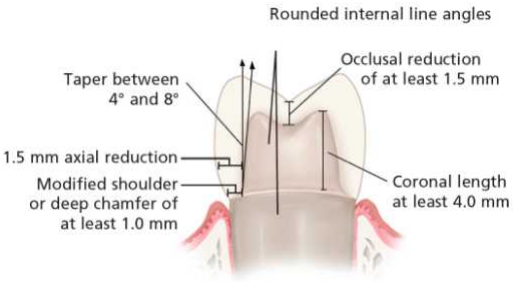
	Predry. °C	min.	min.	°C/min.	T °C	min.	Vac. min.	°C
Cleaning firing: YZ HT	290	10:00	31:00	10	600	5:00	—	—

Important: To avoid undesired clouding of restorations, a cleaning cycle (45 minutes, see above) is required for restorations that are processed wet before continuing (VITA Working Instructions, Oct/2016, p. 12)

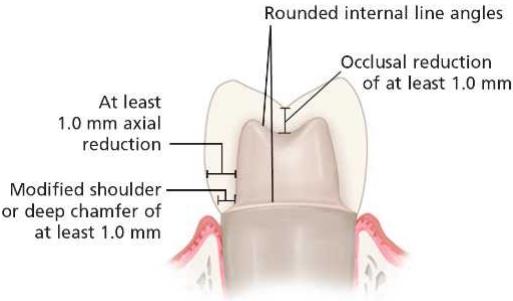
Ivoclar Vivadent

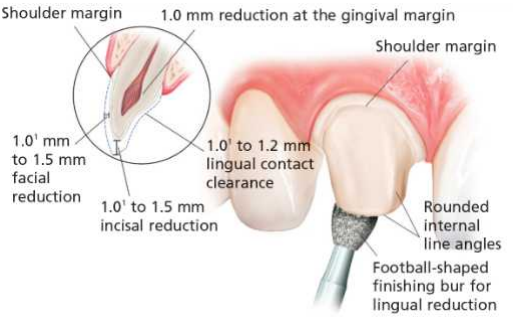
- Prep Guidelines
- IPS e.max® CAD (six pages)
- IPS e.max CAD Abut. (MO, LT)
- Prep Guidelines
- IPS Empress® CAD
- IPS Empress CAD Multi
- Prep Guidelines
- Telio® CAD
- Telio CAD Abutment A16
- Prep Guidelines
- e.max® ZirCAD LT
- Prep Guidelines
- e.max® ZirCAD MT Multi
- Prep Guidelines
- Tetric® CAD

Conventional Cementation (Retentive Prep)

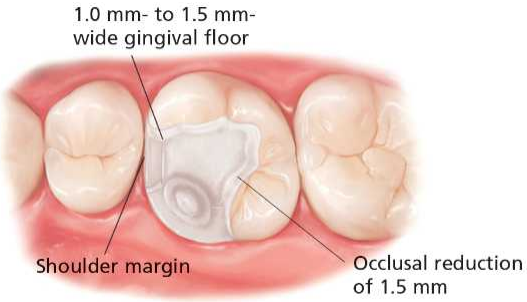


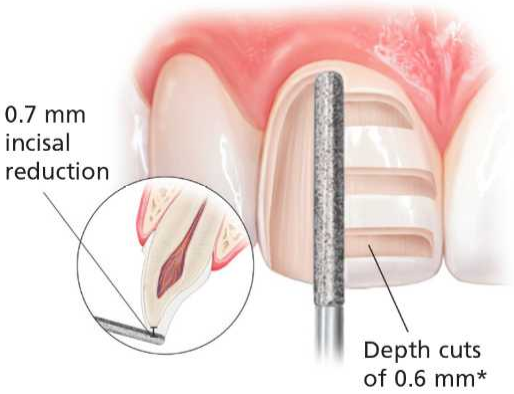
Adhesive Bonding





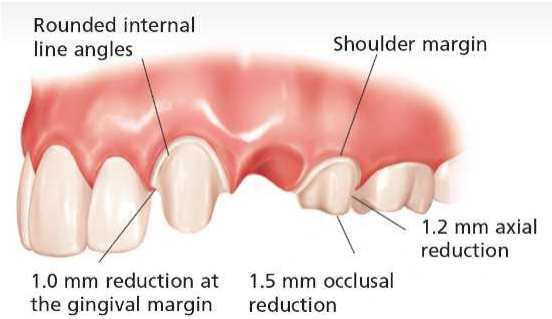
Inlay / Onlay / Veneers



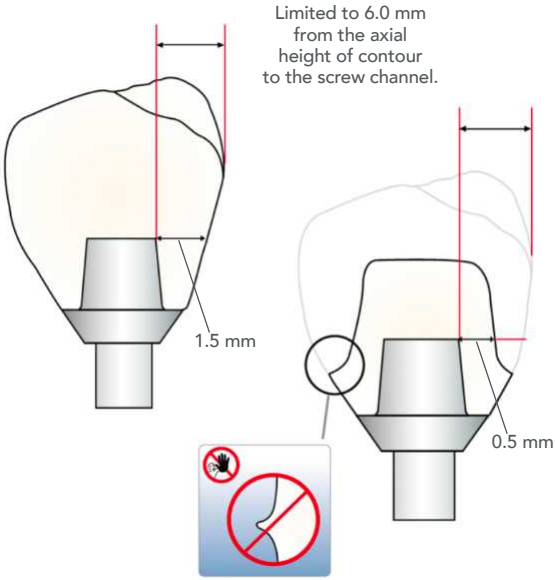


Anterior Bridge

3-unit bridge (1 pontic, 16 mm² connectors)



Abutments



Ivoclar IPS e.max® CAD (HT/LT)

First introduced (approx.) 2007*, 530 MPa Biaxial
Lithium disilicate (crowns, inlay/onlay, veneers)
Sizes: I 12, C 14 (HT/LT) 5/box

*LT announced 2007, HT 2009

BL1 BL2 BL3 BL4

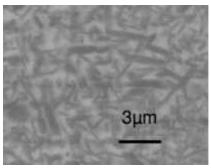
B1 A1 B2 D2 A2 C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Either (depending of prep/reduct)
Oven	CS (15:20[1]), CS4 (17:00), CS6 (11:10)
SpeedFire	24:30[2] min. (2nd glaze, 20:00)
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

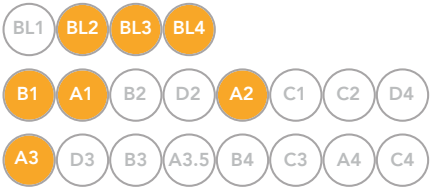
[1]15:20 spray glaze; 24:30 paint-on glaze using v4.24 of the CS oven software.
[2]For both spray and paint-on glaze.



Ivoclar IPS e.max® CAD (MT)

Reintroduced (approx.) 2015, 530 MPa Biaxial
Lithium disilicate (crowns, inlay/onlay, veneers)
Size: C 14 (MT) 5/box

Prior to 2015, these were known as e.max Value blocks
V1 = B1, V2 = BL4, V3 = BL3



Available shades shown in orange arranged by value (brightest to darkest)

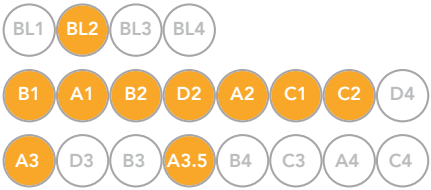
Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Either (depending of prep/reduct)
Oven	CS (15:20[1]), CS4 (17:00), CS6 (11:10)
SpeedFire	24:30[2] min.
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

[1]15:20 spray glaze; 24:30 paint-on glaze using v4.24 of the CS oven software.
[2]For both spray and paint-on glaze.

Translucency in between LT and HT (more towards LT).

Ivoclar IPS e.max® CAD (C 16 LT)

First introduced (approx.) 2013, 530 MPa Biaxial
Lithium disilicate
Size: C 16 (LT only) 5/box



Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Either (depending of prep/reduct)
Oven	CS (15:20[1]), CS4 (17:00), CS6 (11:10)
SpeedFire	24:30[2] min.
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

[1]15:20 spray glaze; 24:30 paint-on glaze using v4.24 of the CS oven software.
[2]For both spray and paint-on glaze.

A specialty block for large restorations that won't fit in a standard C 14 block (e.g., large central or canine).

Ivoclar IPS e.max® CAD (Impulse Opal)

First introduced (approx.) 2011, 530 MPa Biaxial Lithium disilicate (Impulse Opal)
Size: C 14 (more translucent than HT) 5/box

Pure enamel replacement intended for very thin veneers (0.4 mm)

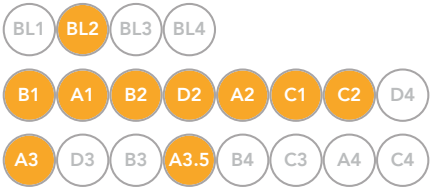
Two Custom Shades:
O1 almost trans with a blue-tinged opalescence
O2 almost trans with a milky-white opalescence

Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (31:30), CS4 (33:00)
SpeedFire	42:20 min.
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

Longer firing times (when compared to LT/MT/HT blocks). A specialty block for thin veneers.

Ivoclar IPS e.max® CAD (B 32 LT)

First introduced (approx.) 2013, 530 MPa Biaxial
Lithium disilicate (3-Unit Anterior bridge)
Sizes: B 32 (LT) 3/box



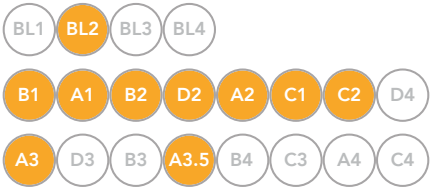
Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Either (depending of prep/reduct)
Oven	CS (24:30), CS4 (33:00)
SpeedFire	38:40 min.
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF G-EF

B 32 is intended for three-unit anterior bridges (premolars forward). Pontic width > 11 mm in the anterior region, > 9 mm in the premolar region.

Ivoclar IPS e.max® CAD (B 40 HT)

First introduced (approx.) 2013, 530 MPa Biaxial
Lithium disilicate (Anterior bridge and bridge veneer)
Sizes: B 40 (HT) 3/box



Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Either (depending of prep/reduct)
Oven	CS (24:30), CS4 (33:00)
SpeedFire	38:40 min.
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF G-EF

B 40 and B 40L blocks were originally intended as veneering materials to put over a zirconia framework. They were not indicated for monolithic posterior bridges. Studies show that even with large connectors, the failure rate was very high. Also the pontic grays out because these blocks only come in HT.

The B 40 block was added to SW 5.1.3, (but not the larger B 40L block).

Block	W	H	L
I12 HT/LT	10.4	12.5	15.0
C14 HT/MT/LT	12.4	14.5	18.0
C16 LT	17.8	15.8	18.0
B32 LT	14.5	14.5	32.0
B40 HT	**15.2**	**15.2**	**38.0**
B40L HT	*15.4*	*19.0*	*39.0*

Ivoclar IPS e.max® CAD Abutment (MO)

First introduced (approx.) 2014, 530 MPa Biaxial Lithium disilicate (Cement Retained Abutment)
Size: A14 (MO) 5/box in shades: 0, 1, 2, 3, 4*

*For MO cement-retained abutments, find the desired implant crown shade and choose the corresponding MO stump shade. For example, if your desired shade is A3.5 (for the implant crown), order the MO 2 abutment block.

When ordering, specify the hole size (S) or (L)

MO 0				MO 1		MO 2	
BL1	BL2	BL3	BL4	A1	A2	A3	A3.5

MO 3	MO 1		MO 3		MO 1	
A4	B1	B2	B3	B4	C1	C2

MO 4			MO 3	
C3	C4	D2	D3	D4

Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Cement to TiBase[1]
Oven	CS (31:30), CS4 (33:00)
SpeedFire	42:20 min.
MCXL	**12S** 12 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF G-EF

[1]Cement to TiBase with Ivoclar Multilink® Hybrid Cement HO 0.

Ivoclar IPS e.max® CAD Abutment (LT)

First introduced (approx.) 2014, 530 MPa Biaxial Lithium disilicate (Cement and Screw Retained)
Sizes: A14 (LT) 5/box (2016), A16 (LT) 5/box

When ordering, specify the hole size (S) or (L)

BL1 **BL2** BL3 BL4

B1 **A1** **B2** **D2** **A2** **C1** **C2** D4

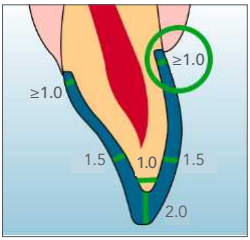
A3 D3 B3 **A3.5** B4 C3 A4 C4

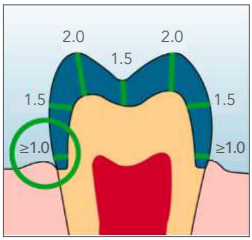
Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Cement to TiBase[1]
Oven	CS (24:30), CS4 (26:00)
SpeedFire	35:50 min. (A16)
MCXL	**12S** 12 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF G-EF

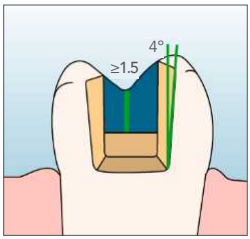
[1]Cement to TiBase with Ivoclar Multilink® Hybrid Cement HO 0.

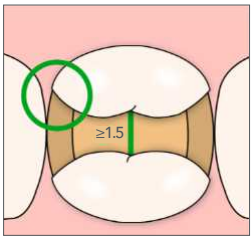
Crowns

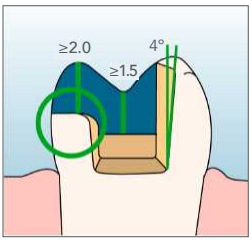


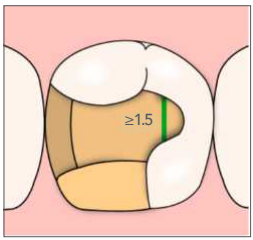


Inlay/Onlay

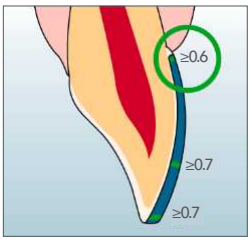








Veneer

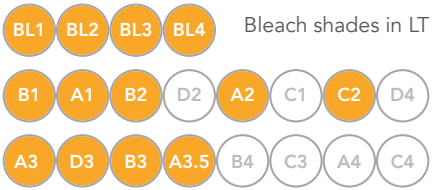


Ivoclar IPS Empress® CAD (HT/LT)

First introduced (approx.) 2006, 160-185 MPa Biaxial Leucite-reinforced

Sizes: I10, I12, C14 (LT, 4 bleach 9 classic) 5/box
I8, I10, I12 (HT, 9 classic) 5/box

Ivoclar lists Empress as 160 MPa biaxial. 185 MPa biaxial is the 10-year average. HT is 20% more translucent than LT.



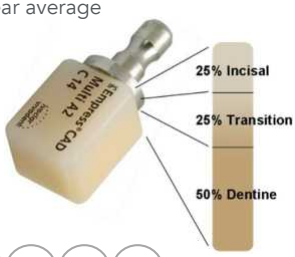
Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (12:10), CS4 (22:00)
SpeedFire	Not supported
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF G-EF

Ivoclar IPS Empress® CAD Multi

First introduced (approx.) 2006, 160-185* MPa Biaxial Leucite-reinforced
Sizes: I12, C14, C14L (16 gradients) 5/box

*Ivoclar lists Empress as 160 MPa biaxial.
185 MPa biaxial is the 10-year average



BL1 BL2 BL3 BL4

B1 A1 B2 D2 A2 C1 C2 D4

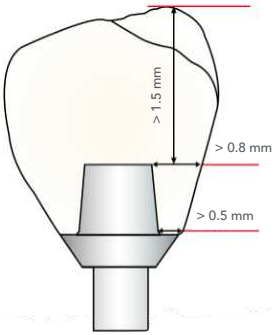
A3 D3 B3 A3.5 B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS (12:10), CS4 (22:00)
SpeedFire	Not supported
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF G-EF

	Occlusal	Connectors
Crown	1.5 mm	
Ant. Bridge	1.5 mm	12 mm^2
Post. Bridge 2 pontic	1.5 mm 1.5 mm	12 mm^2 16 mm^2

Abutment Solutions



Ivoclar IPS Telio® CAD (LT)

First introduced (approx.) 2010, 135 MPa Biaxial Polymethyl methacrylate (PMMA) Temp. Bridge Block
Sizes: B40L (LT)* 3/box, B55 (LT) 3/box

BL1 BL2 **BL3** BL4

B1 **A1** B2 D2 **A2** C1 C2 D4

A3 D3 B3 **A3.5** B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air Abrade
Conv/Bond	See below*
Oven	Never
SpeedFire	Never
MCXL	**12S** 12 20 **25RZ** 12EF 25
Primemill	Z&G Z-EF Z-SF **P&G** **P-EF** G-EF

* **Telio® CS Link** recommended for temporary cementation (dual-cure temporary composite cement) on a retentive prep. If you desire to adhesively bond, first apply a thin coat of SR Connect to the intaglio (allow to react for 2–3 minutes).

Ivoclar IPS Telio® CAD Abutment A16

First introduced (approx.) 2015*, 135 MPa Biaxial Polymethyl methacrylate (PMMA) Temp abutments
Size: A16 (LT) 3/box

*Shades D2, C2, and B3 announced June 2019

When ordering, specify the hole size (S) or (L)

BL1 BL2 **BL3** BL4

B1 **A1** B2 **D2** **A2** C1 **C2** D4

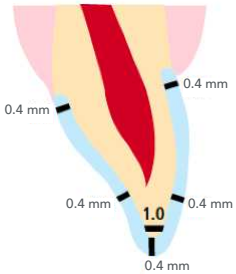
A3 D3 **B3** **A3.5** B4 C3 A4 C4

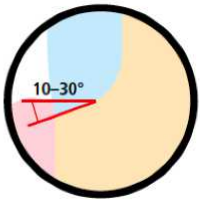
Available shades shown in orange arranged by value (brightest to darkest)

Treat	Do NOT air abrade
Conv/Bond	See below*
Oven	Never
SpeedFire	Never
MCXL	12S 12 **20** **25RZ** 12EF 25
Primemill	Z&G Z-EF Z-SF **P&G** **P-EF** G-EF

*Do NOT sandblast. Thinly apply Ivoclar SR Connect to the hole. Light cure for 40 seconds. Cement to TiBase with **Ivoclar Multilink® Hybrid Cement HO 0**.

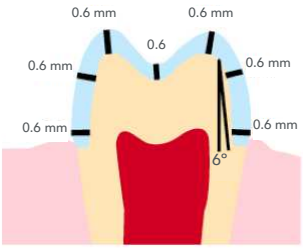
Anterior Crowns





Anterior Bridges	Wall Thick.	Connectors
3-unit	0.6 mm	7 mm

Posterior Crowns



Posterior Bridges	Wall Thick.	Connectors
3-unit	0.6 mm	9 mm
2 pontics	0.7 mm	12 mm
Cantilever with 1 pontic	0.7 mm	12 mm

Ivoclar IPS e.max® ZirCAD LT

First introduced (approx.) 2017, >900 MPa Biaxial
Zirconium oxide (crown and bridge)
Sizes: C17 (LT) 5/box, B45 (LT) 3/box

BL

BL1 BL2 BL3 BL4

B1 A1 B2 D2 A2 C1 C2 D4

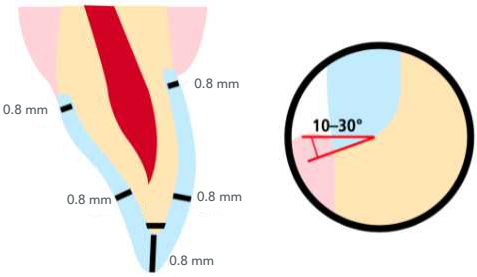
A3 D3 B3 A3.5 B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air Abrade
Conv/Bond	Either (Conventional cement pref.)
Oven	CS4* 27 dry / 37 wet (19 min glaze)
SpeedFire	28:30 dry mill (FAN) 16:45 glaze
MCXL	**12S 12 20 25RZ 12EF 25**
Primemill	**Z&G Z-EF Z-SF P&G P-EF G-EF**

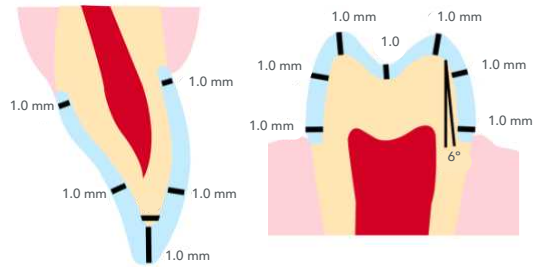
*CS4 (wet cycle P1: 37:00 for 1–3 crowns, P2: 57:00 for >3 crowns, or for "enhanced esthetics") 19:00 glaze. CS6 22:00

Anterior Crowns



Anterior Bridges	Wall Thick.	Connectors
3-unit	1.0 mm	12 mm*
*Height: 4 mm, Width: 3 mm		

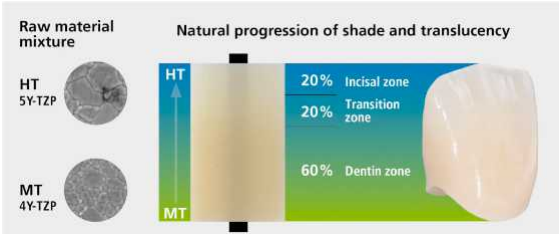
Posterior Crowns



Posterior Bridges	Wall Thick.	Connectors
3-unit	1.0 mm	16 mm

Ivoclar IPS e.max® ZirCAD MT Multi

First introduced (approx.) 2019, 850 MPa Biaxial
Esthetic Layered 5Y & 4Y Zirconia (crown and bridge)
Sizes: C17 (MT Multi), 5/box, B45 (MT Multi), 3/box



The dimple is the 4Y (MT) side.

BL1 BL2 BL3 BL4

B1 A1 B2 D2 A2 C1 C2 D4

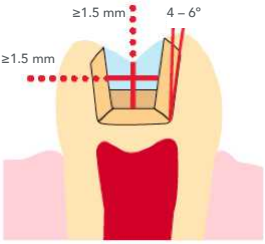
A3 D3 B3 A3.5 B4 C3 A4 C4

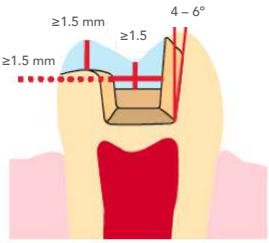
Available shades shown in orange arranged by value (brightest to darkest)

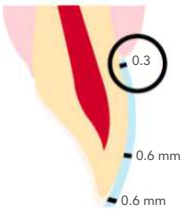
Treat	Air Abrade
Conv/Bond	Either (SpeedCEM plus SAR is pref.)
Oven	CS4* 49:00 dry (19 min. glaze)
SpeedFire	49:00 dry (FAN) 16:45 glaze
MCXL	12S 12 **20** **25RZ** 12EF **25**
Primemill	**Z&G** **Z-EF** **Z-SF** P&G P-EF G-EF

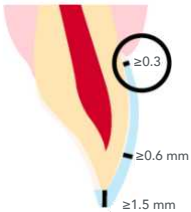
*CS4 (P1: 60 min. wet for 1–3 crowns, **P2: 114 min. wet for bridges**, >3 crowns, or for "enhanced esthetics"). When glazing in the CS4 oven, use Object Fix and the gray e.max crystallization tray/pins.
CS6 (speed: 55:20, esthetic 69:00)

Inlays/Onlays/Veneers

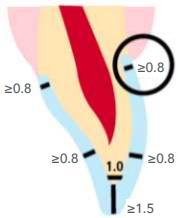


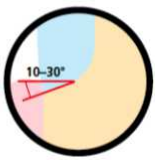


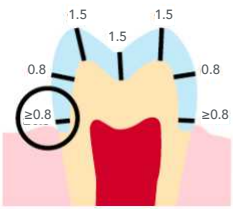


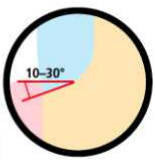


Crowns









Ivoclar Tetric® CAD

First introduced (approx.) mid 2018, 272 MPa Biaxial
Nano-hybrid composite block with barium glass
Sizes: I12, C14 (MT, HT) 5/box

HT

BL1 BL2 BL3 BL4

B1 **A1** B2 D2 **A2** C1 C2 D4

A3 D3 B3 **A3.5** B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

MT

BL

BL1 BL2 BL3 BL4

B1 **A1** B2 D2 **A2** C1 C2 D4

A3 D3 B3 **A3.5** B4 C3 A4 C4

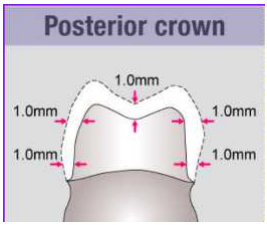
Treat	Air Abrade for 1-2 min. until dull
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

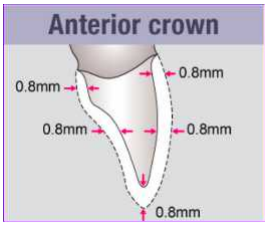
Kuraray Noritake

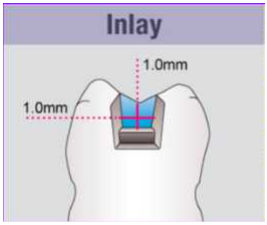
- Prep Guidelines
- KATANA™ Zirconia STML
- Prep Guidelines
- KATANA™ Zirconia ONE
- Prep Guidelines
- KATANA™ AVENCIA™ LT

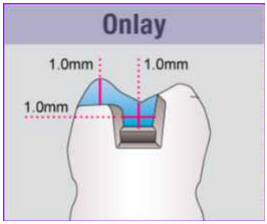
Merz Dental GmbH

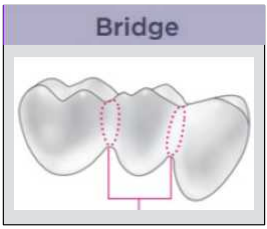
- Prep Guidelines
- artBloc® Temp

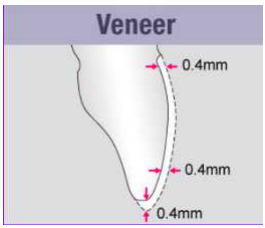












Bridge connectors:

Anterior (2–3 units): 12 mm^2 connectors (or greater)

Posterior (2–3 units): 16 mm^2 connectors (or greater)

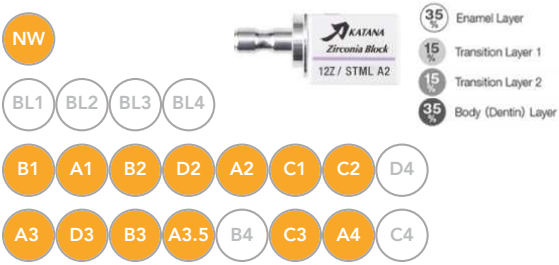
Kuraray Noritake KATANA™ Zirconia STML

First introduced (approx.) 2018, 763* MPa, 3 point Zirconia, STML (Super Translucent Multi Layer)

Crown: 12Z, 14Z (5/box) NW, A1, A2, A3, A3.5, A4, B1, B2
12Z, 14Z (2/box) B3, C1, C2, C3, D2, D3

Bridge: 14ZL (3/box) A1, A2, A3, A3.5, B1
14ZL (2/box) NW, A4, B2, B3, C1, C2, C3, D2, D3

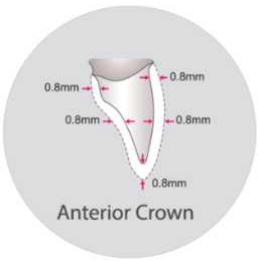
* 763 MPa website/brochure. ISO 6872:2015, test sample size 1.5x4x18mm

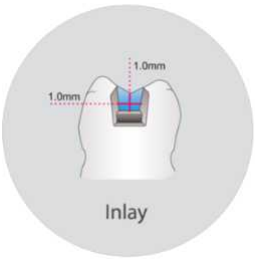


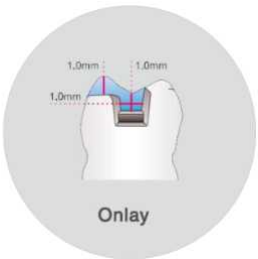
Available shades shown in orange arranged by value (brightest to darkest)

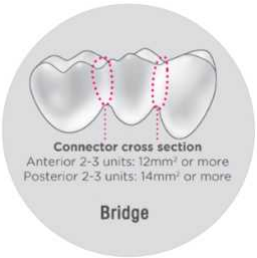
Treat	Air abrade
Conv/Bond	Adhesive Bond
Oven	CS4 (50:00 min.) CS6 (26:40 min.)[1]
SpeedFire	18:40 dry[2,3] (FAN) 8:40 min. glaze[4]
MCXL	12S 12 **20** **25RZ** 12EF **25**
Primemill	**Z&G** **Z-EF** **Z-SF**[5] P&G P-EF G-EF

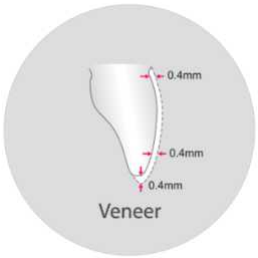
[1] 3rd party suggestions (not validated by Kuraray).
[2] Same time for sintering up to three restorations. Use a separate water tank to avoid cross contamination or the restoration may look opaque.
[3] SW 5.1 allows for faster firing (18:40) for thicker-walled restorations and bridges (under 6mm).
[4] >29 min. if SF is >150 C (it's 970 C after sintering)
[5] Super fast option for size 12z







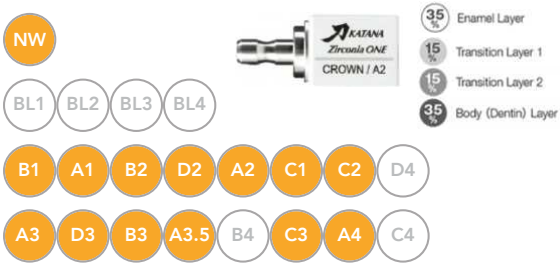




Kuraray Noritake KATANA™ Zirconia ONE

First introduced (approx.) Sept 2022, 933* MPa, 3 point Zirconia, STML (Super Translucent Multi Layer)
Crown: (4/box) H x W x L = 16.5 x 19.2 x 20.2 mm
Bridge: (2/box) H x W x L = 17.8 x 19.2 x 40.0 mm

*ISO 6872:2015, test sample size 1.2x4x14 mm, span length 12mm



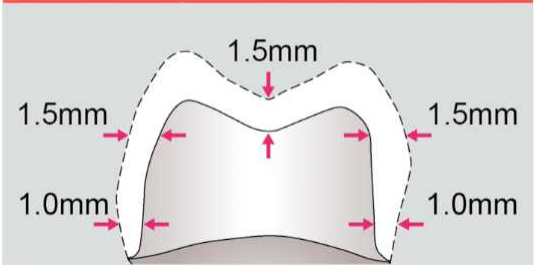
Available shades shown in orange arranged by value (brightest to darkest)

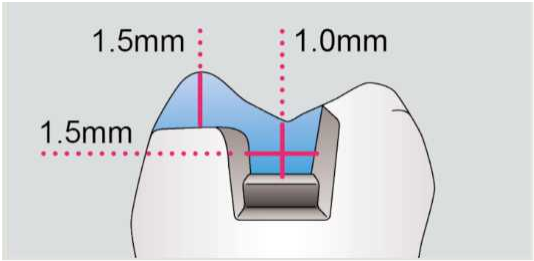
Treat	Air abrade
Conv/Bond	Panavia SA Cement Universal pref.
Oven	CS4 (50:00 min.) CS6 (26:40 min.)[1]
SpeedFire	18:40 dry[2] (FAN) 8:40 min. glaze[3]
MCXL	12S 12 20 **25RZ** 12EF **25**
Primemill	**Z&G Z-EF Z-SF** P&G P-EF G-EF

[1] 3rd party suggestions (not validated by Kuraray).
[2] Same time for sintering up to three restorations. Use a separate water tank to avoid cross contamination or the restoration may look opaque.
[3] >29 min. if SF is >150 C (it's 970 C after sintering)

Restoration		Thickness
Anterior Crown	Incisal	>1.5 mm
	Circumferential wall	1.0-1.2 mm
	Margin	>0.8 mm
Posterior Crown	Fissure / Cusps / Circumferential wall	>1.5 mm
	Margin	>1.0 mm
Inlay	Fissure	>1.0 mm
	Isthmus	>1.5 mm
Onlay	Fissure	>1.0 mm
	Cusps / Isthmus	>1.5 mm
Veneer	Incisal	0.5-1.5 mm
	Labial wall	>0.6 mm
	Margin	>0.4 mm

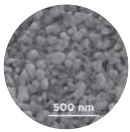
Preparation Guidelines





Kuraray Noritake KATANA™ AVENCIA™ LT

First introduced (approx.) 2019, 233 MPa, Biaxial
Resin composite block (nano-sized filler)
Size: 12, 14L (5/box)



BL1 BL2 BL3 BL4

B1 A1 B2 D2 **A2** C1 C2 D4

A3 D3 B3 **A3.5** B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air abrade
Conv/Bond	Self-adhesive resin[1], Adhesive Bond[2]
Oven	Never
SpeedFire	Never
MCXL	**12 S** **12** 20 25RZ **EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

[1] PANAVIA™ SA Cement Universal (self-adhesive resin cement).
[2] PANAVIA™ SA Cement Universal and CLEARFIL™ Universal Bond Quick.

Merz Dental GmbH artBloc® Temp

Long-term (< 3 years) temporary crowns and bridges (up to 4-units)

Minimal wall thickness after polishing ≥ 1 mm

	Wall Thick.	Connectors
Anterior (1 pontic)	≥ 1 mm	≥ 9 mm
Posterior (1 pontic)	≥ 1 mm	≥ 9 mm
Post. (2 pontic/cant)	≥ 1 mm	≥ 12 mm

Merz Dental GmbH artBloc® Temp

Introduced (approx.): 2010 in SW 3.8, 93 Mpa, 3-Point
PMMA (Organic Modified Polymer Network)
Size: 15.5 x 19 x 39 mm (2/Pkg, 10/Pkg)

BL1 BL2 BL3 BL4

B1 A1 B2 D2 A2 C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air abrade
Conv/Bond	Provisional cements (eugenol free)
Oven	Never
SpeedFire	Never
MCXL	12 S 12 **20** **25RZ** EF 25
Primemill	Z&G Z-EF Z-SF **P&G** **P-EF** G-EF

Merz states: The addition of Dentatec in the water tank must be reduced to 15 mL (instead of 75 mL).

3M™

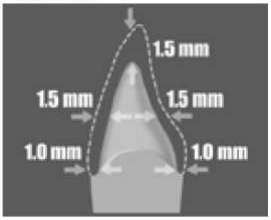
- Prep Guidelines
- Paradigm™ MZ100
- Prep Guidelines
- Lava™ Ultimate
- Prep Guidelines
- Chairside Zirconia

GC America

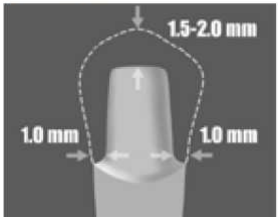
- Prep Guidelines
- CERASMART™
- CERASMART™ 270
- Prep Guidelines
- Initial™ LRF
- Prep Guidelines
- Initial™ LiSi Block

Crowns

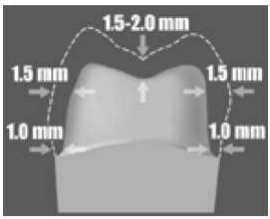
Anterior



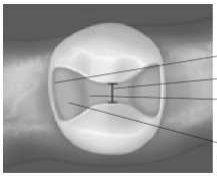
Premolar



Molar

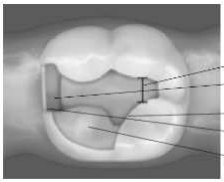


Inlays/Onlays



Premolar Inlay Preparation

Butt joint margin
1.5–2.0 mm isthmus width
1.5 mm min. depth at bottom of the fissure
Rounded internal line angles



Molar Onlay Preparation

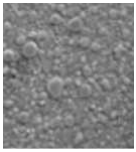
Butt joint margin
1.5–2.0 mm isthmus width
1.5 mm min. depth at bottom of the fissure
Rounded internal line angles
1.5–2.0 mm minimum cusp

Veneer

Standard reduction of the labial surface is 0.6 mm and 0.4 mm at the gingival portion because the enamel is thinner in this area. The reduction of the incisal, labial-lingual angle is 0.5 mm to 1.5 mm. Margins for the veneers should be above the gingival tissue 0.4 to 0.6 mm deep. Chamfer or rounded shoulder should be used for all preparations.

3M™ Paradigm™ MZ100

First introduced (approx.) 2000, 146-157 MPa, 3 point
Ultrafine zirconia-silica particles (85% wt) in resin
Size: 14 cylindrical, 5/box



BL1 BL2 BL3 BL4 *E

B1 **A1** B2 D2 **A2** C1 C2 D4

A3 D3 **B3** **A3.5** B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

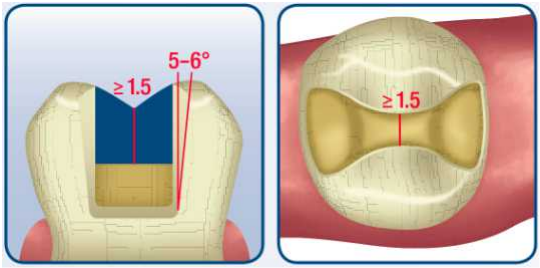
*E = enamel (a more translucent shade)

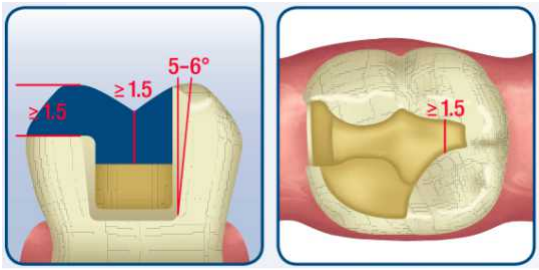
Treat	Air Abrade
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Block not an option in Primemill**

3M™ Lava™ Ultimate

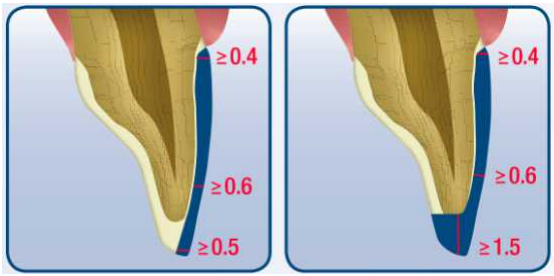
As of June 2015, not indicated for crowns

Inlays/Onlays



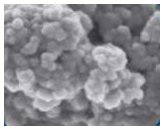


Veneers



3M™ Lava™ Ultimate

First introduced (approx.) 2011, 170-200 MPa, 3 point
Nano zirconia-silica particles (80% wt) in resin
Sizes: 12, 14L (5/box) not indicated for crowns



HT

BL1 BL2 BL3 BL4

B1 **A1** B2 D2 **A2** C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

LT

BL

BL1 BL2 BL3 BL4

B1 **A1** B2 **D2** **A2** C1 **C2** D4

A3 D3 B3 **A3.5** B4 C3 A4 C4

Treat	Air Abrade
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

Crown & Bridge

Three-unit bridges*	Wall Thick.	Connectors
Anterior	≥ 0.8 mm	≥ 12 mm
Posterior	≥ 0.8 mm	≥ 14 mm

*one pontic supported on each side by a crown

3M™ Chairside Zirconia

First introduced (approx.) 2019, 1000 MPa 3-point Esthetic 4Y Zirconia (crown and bridge)
Sizes: 20/19 (5/box), 39/19 (3/box)

BL

BL1 BL2 BL3 BL4

B1 A1 B2 D2 A2 C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

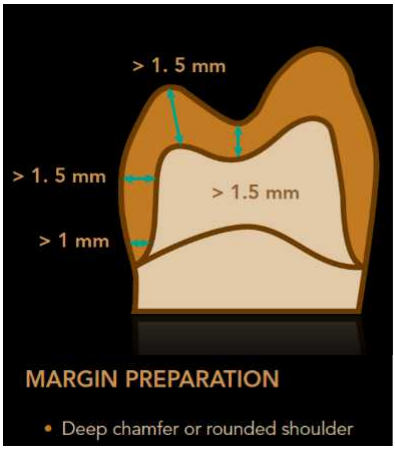
Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air Abrade
Conv/Bond	RMGI or Self-adhesive resin
Oven	CS4 130 min. (bridge), 38 min (crown)
SpeedFire	22:24 (stand.), 19:36 (thin) (FAN)
MCXL	12S 12 20 **25RZ** 12EF **25**
Primemill	**Z&G Z-EF Z-SF** P&G P-EF G-EF

With SW 5.2.4 : Up to 3 restorations can be sintered in the SpeedFire.

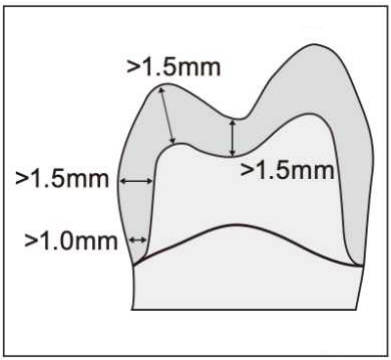
GC America CERASMART™

Crowns



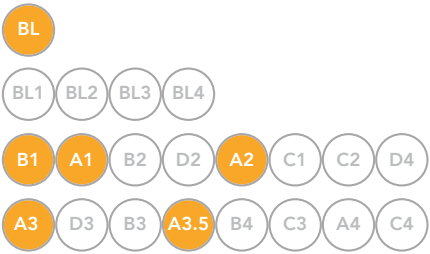
GC America CERASMART™ 270

Crowns



GC America CERASMART™

First introduced (approx.) 2014, 230 MPa, 3 point
71% nano ceramics and 29% resin matrix
Sizes: 12, 14, 14L (HT and LT+1 BL) 5/box



Available shades shown in orange arranged by value (brightest to darkest)

Treat	Air Abrade*
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

*In a statement (June 24, 2015), GC Corporation states that sandblasting is recommended. If not available, 5% HF acid etch is possible (60 seconds).

Due to the improvements, CERASMART 270 will eventually replace standard CERASMART.

	CERASMART	CERASMART 270
3P Strength	230 MPa	245 MPa
Radiopacity	300% Al	380% Al
Flexural Energy	2.2 N x cm	2.7* N x cm

*requires more force to fracture

GC America CERASMART™ 270

First introduced (approx.) 2020, 245 MPa, 3 point
Improved nanofiller with Full Coverage Silane Coating
Sizes: 12, 14, 14L (HT and LT+1 BL) 5/box

BL

BL1 BL2 BL3 BL4

B1 A1 B2 D2 A2 C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

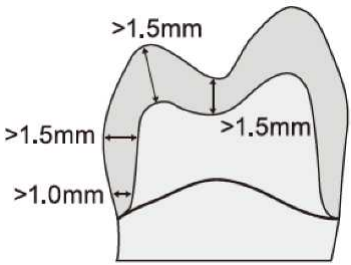
Treat	5% HF 60 sec. or Air Abrade
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

The "270" in CERASMART 270 refers to the level of flexural energy. The 2.7 N x cm flexural energy of the material is +23% better than that of standard CERASMART (2.2 N x cm), meaning that the former requires more force to fracture.

GC makes a light-cured stain and glaze system called OPTIGLAZE color.

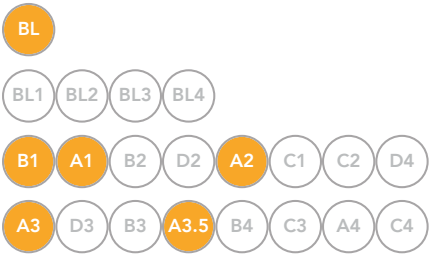
Preparation Design

- Minimum wall thickness should be 1.5 mm, 1.0 at margins. Prepare margins with a deep chamfer or rounded shoulder.
- The minimum thickness of the restoration should be 1.5 mm in pit and fissure areas and 2.0 mm in cusp areas.
- All internal edges and angles should be rounded. Avoid having margins in direct occlusal contact with the opposing tooth.
- Gutter-shaped preparation should be avoided for all types of restorations.
- For veneer, the preparation should be located in the enamel and a minimum thickness of 0.6 mm shall be respected.



GC America Initial™ LRF

First introduced (approx.) 2017, 200 MPa, 3 point
Leucite-reinforced feldspar (LRF) ceramic
Sizes: 12, 14, 14L (HT and LT+1 BL) 5/box



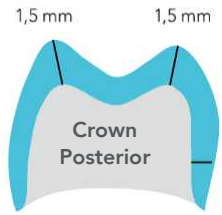
Available shades shown in orange arranged by value (brightest to darkest)

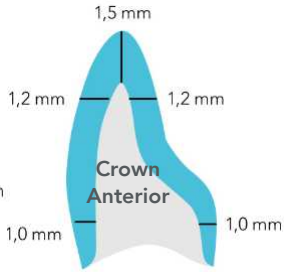
Treat	5% HF 60 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	Yes (custom glaze program)
SpeedFire	Not supported
MCXL	**12S** 12 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

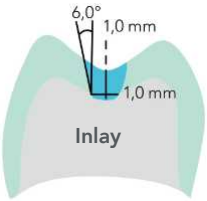
GC Initial LRF Glaze Paste Firing Parameters

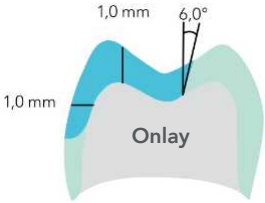
Pre-heating temperature	Drying time	Raise of temperature	Vacuum	Final temperature	Holding time
450°C	4 min	45°C/min	Yes	840-860 °C	1 min

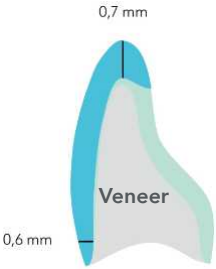
Preparation Design: Prepare margins with a deep chamfer or rounded shoulder.





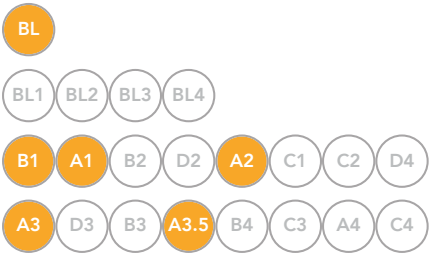






GC America Initial™ LiSi Block

First introduced (approx.) Oct 2021, 408 MPa, Biaxial
Fully crystallized lithium disilicate (polish and place)
Sizes: 14 (HT and LT) 5/box



Available shades shown in orange arranged by value (brightest to darkest)

Treat	5% HF 20 sec. (don't air abrade)
Conv/Bond	Adhesive Bond
Oven	CS2 (12:30–13:10)
SpeedFire	12:00 optional glazing (no FAN)
MCXL	**12S** 12 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

GC Initial LiSi Lustre Paste Firing Parameters

Pre-heating temperature	Drying time	Raise of temperature	Vacuum	Final temperature	Holding time
450°C	4 min	45°C/min	Yes	735-760 °C	1 min

SHOFU

Prep Guidelines

HC

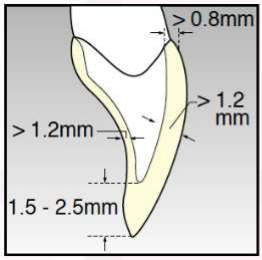
HC (2L)

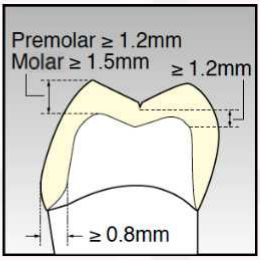
COLTENE

Prep Guidelines

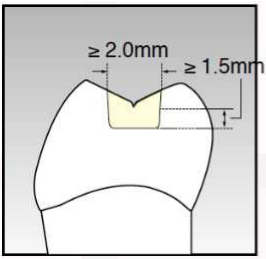
BRILLIANT Crios

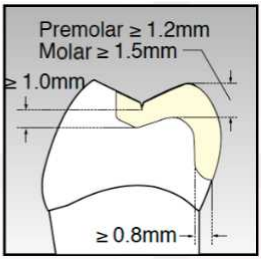
Crowns



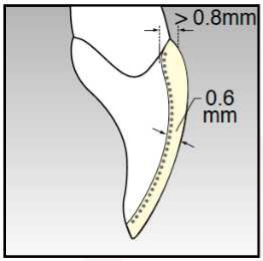


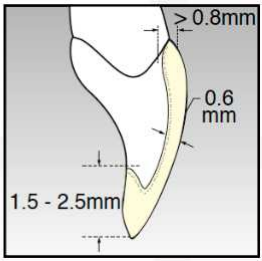
Inlays/Onlays





Veneers





SHOFU BLOCK HC

First introduced (approx.) 2016, 191 MPa, 3 point
61% nano zirconium silicate in a resin matrix
Sizes: 12 (small), 14 (medium), 5/box

HT

59 OC

59 = incisal (lab ref.)
OC = occlusal (lab ref.)

BL1 BL2 BL3 BL4

B1 **A1** B2 D2 **A2** C1 C2 D4

A3 D3 B3 A3.5 B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

LT

BL1 BL2 BL3 BL4 **W2**

W2 = Between A1 and Bleach White

B1 **A1** B2 D2 **A2** C1 C2 D4

A3 D3 **B3** **A3.5** B4 C3 A4 C4

Treat	Air abrade
Conv/Bond	Adhesive Bond*
Oven	Never
SpeedFire	Never
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

*Because it is a zirconia-rich resin and not a ceramic, Shofu recommends using their HC Primer on the intaglio (a zirconia primer, very important to prevent debonding). Then use any self-adhesive resin cement like Shofu's MonoCem.

SHOFU BLOCK HC (2L)

First introduced (approx.) 2016, 191 MPa, 3 point
61% nano zirconium silicate in a resin matrix
Sizes: 12 (small), 14 (medium), 5/box

BL1 BL2 BL3 BL4

B1 A1 B2 D2 **A2** C1 C2 D4

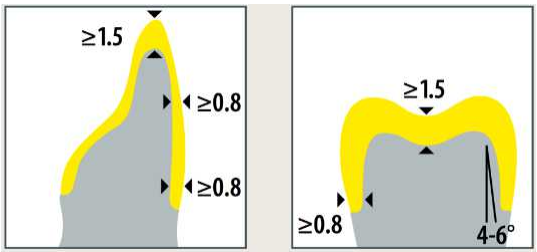
A3 D3 B3 **A3.5** B4 C3 A4 C4

Available shades shown in orange arranged by value (brightest to darkest)

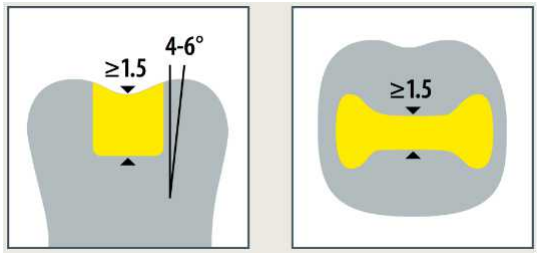
Treat	Air abrade
Conv/Bond	Adhesive Bond*
Oven	Never
SpeedFire	Never
MCXL	**12S 12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

*Because it is a zirconia-rich resin and not a ceramic, Shofu recommends using their HC Primer on the intaglio (a zirconia primer, very important to prevent debonding). Then use any self-adhesive resin cement like Shofu's MonoCem.

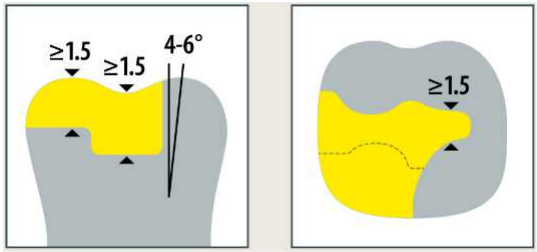
Crowns



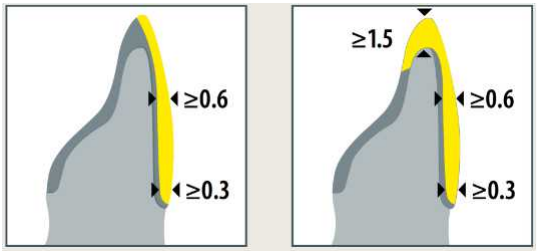
Inlay



Onlay



Veneer

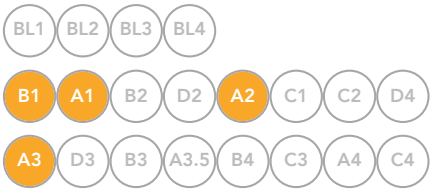


COLTENE – BRILLIANT Crios

First introduced (approx.) 2016, 198 MPa, 3 point Reinforced composite (71% filler by weight)
Sizes: 12, 14 (5/box)

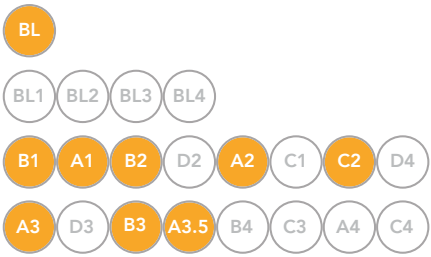
COLTENE lists the biaxial flexural strength (262 MPa)

HT



Available shades shown in orange arranged by value (brightest to darkest)

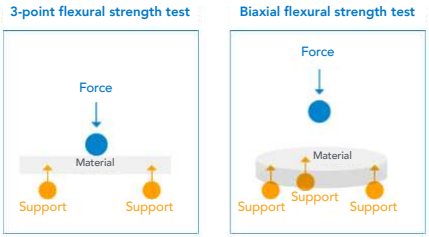
LT



Treat	Air abrade
Conv/Bond	Adhesive Bond
Oven	Never
SpeedFire	Never
MCXL	**12S** **12** 20 25RZ **12EF** 25
Primemill	**Z&G** Z-EF Z-SF P&G P-EF **G-EF**

Understanding Strength Data

There are many ways to report flexural strength data, so it's important to understand the test method behind the numbers. These charts illustrate two different test methods for calculating flexural strength. Both test methods are accepted according to ISO 6872:2015.



The **3-point flexural** strength test utilizes a bar sample with two supports, while the biaxial test method utilizes a disc sample with a larger surface area and three supports. The **biaxial test method** requires more force to break the sample. **This results in a higher flexural strength value when the biaxial test method is used.**

CEREC Tessera 3-point test	CEREC Tessera biaxial test
550 MPa	**>700** MPa

When comparing two materials, only use values from the same testing method (3-point vs. 3-point, not 3-point vs. biaxial).

Is a Material Strong Enough?

Is more strength better? Enamel has a flexural strength of about 80-120 MPa (3 point). So all of the CEREC blocks are stronger than the enamel and dentin they are replacing.

What makes natural teeth so long-lasting is the wonderful interface between enamel and dentin.

The "weakest" blocks (e.g., the ones made of feldspathic porcelain like VITABLOCS Mark II) perform very well with the recommended material thickness.

More than 95% of Mark II restorations were clinically successful after 5 years. 90% functionally successful after 10 years. (Int. Journal of Computerized Dent., 2000 Sept)

Generally speaking, there is a trade-off between strength and beauty. And higher-strength blocks typically require less reduction. However, all the blocks work well if you follow the manufacturer's recommendations.

Adequate reduction is very important if you want long-lasting restorations with great anatomy.

What is Fracture Toughness?

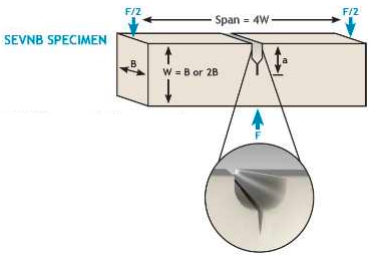
Strength is measured by the stress required to break a material. A strong material can withstand high stress without breaking. The opposite of strong is weak.

Tough materials (like titanium) deform instead of break under high pressure. Ceramics are very brittle (the opposite of tough). They break under high pressure.

Fracture toughness (taken from CD magazine Q3 2016) is a value that measures a material's ability to resist crack propagation. It is a test that allows for meaningful comparisons of dental ceramics.

For dental materials, the values for fracture toughness (K_{1C}) range from 0.8 for veneering porcelains to 5.1 for zirconia. Metals start at about 20 and go into the hundreds.

The higher the fracture toughness the lower the probability of failure at any given load.



Restorative Esthetics: What Matters Most?

(in order of importance):

1 Silhouette or perimeter shape

2 Surface morphology and texture

3 Value (how much gray/black; how bright)

4 Translucency or opacity

5 Chroma (the strength of the color).

For example, consider A4. The letter (A) is the hue (orange), and the number (4) is the intensity or chroma of that color or hue.

6 Hue or color. A color wheel is technically a hue wheel. The Classic Shade system has four general hues:

A = **Orange** (Reddish-Brownish)
B = **Yellow** (Reddish/Yellowish)
C = **Gray/Brown** (Gray)
D = **Red** (Reddish/Gray)

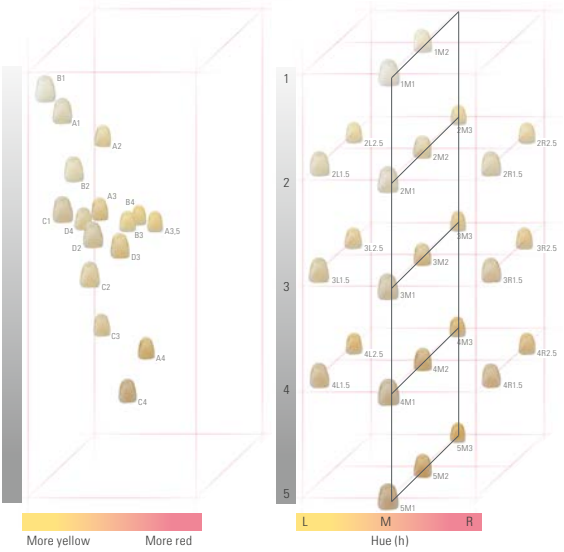
One way to remember the four hues:

A is for apple (but it's not an apple, it's **Orange**)
B is bee (a black and **Yellow**-striped bee)
C is for cat (an ugly **Gray** and **Brown** cat)
D is for dog (like Clifford, the big **Red** cartoon dog)

Closest match between VITA classical A1-D4 and VITA SYSTEM 3D-MASTER

BL2	0M2	BL3	0M3		
A1	1M2	B1	1M1	C3	4M2
A2	2M2	B2	2M2	C4	4M2
A3	2M3	B3	2M2	D2	3M1
A3.5	3M2	B4	3M3	D3	3M2
A4	4M2	C1	2M1	D4	3M2
		C2	3M1		

The above conversions are **rough approximations**. Both guides use the same color space but are arranged very differently in that space. The graphics below are for illustration purposes only and shades may not line up precisely between systems.



MORE
VITA classical A1-D4

MORE
VITA SYSTEM 3D-MASTER

When to use HT, LT, and MT

HT = High Translucency

- For inlay/onlay/crown-lay restorations where you want the transition to blend in without leaving a visible line.
- Because these blocks are highly translucent, full-coverage HT crowns can drop in value because more light passes through the material and less light is reflected back to the eye. And if you have a dark stump shade, more of the darkness can show through.

LT = Low Translucency

- Because the transition line is more discernible, this translucency is good for subgingival margin placement.
- LT blocks may appear brighter than the shade from the guide because more light is reflected back to the eye.
- LT blocks are often used for restorations next to an existing PFM, and have a similar look. They may also be used to block out a darker stump shade because they have less show-through.

MT = Medium Translucency

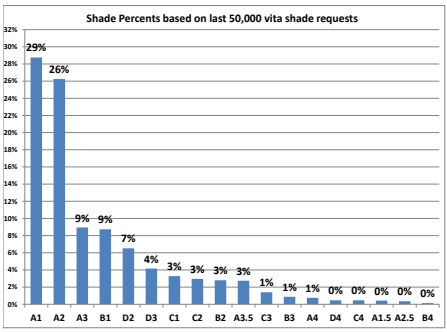
- Some manufacturers offer this translucency which provides a nice balance between HT and LT.

Popular Shades To Stock

Consider stocking a broad range of shades and translucencies to allow for uncompromised esthetics.

The percentages below represent 50,000 Classic shade requests for anterior and posterior crowns from one of the largest labs in the country. These are only suggestions. Please consider your patient demographics.

The first five of all requests represent **80%:**		The next five increase that percentage to **95%:**		The remaining shades make up the rest of lab requests.	
A1	29.0%	**D3**	4.1%	C3	1.4%
A2	26.5%	**C1**	3.3%	B3	0.9%
A3	9.0%	**C2**	3.0%	A4	0.8%
B1	8.7%	**B2**	2.8%	D4	0.5%
D2	6.5%	**A3.5**	2.8%	C4	0.5%



Tool Sets

Mill ZrO2 & Grind

Mill ZrO2 Super-Fast

Mill ZrO2 Extra Fine

Grind Extra Fine

Mill PMMA & Grind

Mill PMMA Extra Fine

Motor set 1

Bur 2.5 ZrO2 CS (3/pk)

#67 13 940

Improved batch: ≥ H203003
In Starter Kits SN≥ 650929

Bur 1.0 CS (3/pk)

#67 13 932

Motor set 2

Diamond 1.4 CS (6/pk)

#67 14 088

Diamond 1.2 CS (6/pk)

#67 14 070

Motor set 1

Bur 2.5 ZrO2 CS (3/pk)

Improved batch: ≥ H203003
In Starter Kits SN≥ 650929

#67 13 940

Bur 2.5 ZrO2 CS (3/pk)

#67 13 940

Motor set 2

Bur 1.0 CS (3/pk)

#67 13 932

Bur 1.0 CS (3/pk)

#67 13 932

Motor set 1

Bur 2.5 ZrO2 CS (3/pk)

#67 13 940

Improved batch: ≥ H203003
In Starter Kits SN≥ 650929

Bur 1.0 CS (3/pk)

#67 13 932

Motor set 2

Diamond 1.4 CS (6/pk) **OR ANY TOOL**

#67 14 088

Bur 0.5 CS (3/pk)

#67 13 924

Motor set 1

Diamond 1.0 CS* (6/pk)

#67 14 062

In Starter Kits SN≥ 652401

Diamond 0.6 CS* (6/pk)

#67 14 054

Motor set 2

Diamond 1.4 CS (6/pk)

#67 14 088

Diamond 1.2 CS (6/pk)

#67 14 070

Motor set 1

Bur 2.5 PMMA CS (3/pk)

#67 37 469

In Starter Kits SN≥ 651105

Bur 1.0 CS (3/pk)

#67 13 932

Motor set 2

Diamond 1.4 CS (6/pk)

#67 14 088

Diamond 1.2 CS (6/pk)

#67 14 070

Motor set 1

Bur 2.5 PMMA CS (3/pk)

#67 37 469

In Starter Kits SN≥ 651105

Bur 1.0 CS (3/pk)

#67 13 932

Motor set 2

Diamond 1.4 CS (6/pk) **OR ANY TOOL**

#67 14 088

Bur 0.5 CS (3/pk)

#67 13 924

Bur Combos

1: Step Bur 12 S + 12 S

2: Step Bur 12 + 12 S

3: Step Bur 20 + 20

4: Shaper 25 RZ + Fin 10

5: 12 EF + 12 EF

6: Shaper 25 + Fin 10

Combination 1
Wet mill, Motor set 1 or 2

Step Bur 12 S (Standard, 1.35 mm tip, 6/pk)

#6240167

Cylinder Pointed Bur 12 S (1.75 mm tip, 6/pk)

#6240159

Works with:

Dentsply Sirona	Celtra Duo / CEREC Tessera
	CEREC Blocs C, Blocs C PC
VITA	VITABLOCS Mark II
	VITABLOCS TriLuxe Forte, RealLife
	VITA ENAMIC, multiColor, ST
	VITA ENAMIC IS (abutment)
	SUPRINITY PC
	VITA CAD-Temp monoColor
Ivoclar Vivadent	IPS e.max CAD
	IPS e.max CAD (Abutment Solutions)
	IPS Empress CAD, Empress Multi
	IPS Telio CAD
	Tetric CAD
Kuraray Noritake	KATANA Avencia
3M™	Lava Ultimate
	Paradigm MZ100
GC America	CERASMART / CERASMART 270
	Initial LRF
SHOFU	BLOCK HC, BLOCK HC (2L)
COLTENE	BRILLIANT Crios

Combination 2
Wet mill, Motor set 1 or 2

Step Bur 12 (Narrow, 0.95 mm tip, 6/pk)

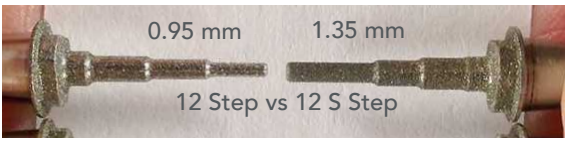
#6260025

Cylinder Pointed Bur 12 S (6/pk)

#6240159

Works with:

Dentsply Sirona	Celtra Duo / CEREC Tessera
	CEREC Blocs C, Blocs C PC
VITA	VITABLOCS Mark II, TriLuxe
	VITABLOCS TriLuxe Forte, RealLife
	VITA ENAMIC, multiColor, ST
	SUPRINITY PC
Ivoclar Vivadent	IPS e.max CAD
	IPS Empress CAD, Empress Multi
	Tetric CAD
Kuraray Noritake	KATANA Avencia
3M™	Lava Ultimate
	Paradigm MZ100
GC America	CERASMART
SHOFU	BLOCK HC, BLOCK HC (2L)
COLTENE	BRILLIANT Crios



Combination 3
Wet mill, Motor set 1 or 2

Step Bur 20 (6/pk)

#6259597

Cylinder Pointed Bur 20 (6/pk)

#6259589

Works with:

Dentsply Sirona	CEREC Zirconia
	inCoris TZI
	inCoris TZI C
	inCoris ZI meso (abutment)
VITA	VITA CAD-Temp multiColor
	VITA YZ HT
Ivoclar Vivadent	IPS e.max ZirCAD LT
	IPS e.max ZirCAD MT Multi
	IPS Telio CAD (Abutment Solutions)
Kuraray Noritake	KATANA Zr STML
Merz Dental	artBloc Temp

In CEREC® SW 4.5.x and later, the only material that requires 20 mm diamond burs is the CEREC Guide 1.0, which was discontinued Dec 2017. The other materials listed above can be milled with carbide burs

Combination 4
Wet mill, Motor set 1

More Info

Shaper 25 RZ* (3/pk)

#6433440

Finisher 10 (3/pk)

#6299387

Wet mill only. Works with:

Dentsply Sirona	CEREC Zirconia / CEREC Zirconia+
	CEREC MTL Zirconia (SW 5.2.2+)
	inCoris TZI / TZI C
	inCoris ZI meso (abutment)
	CEREC Guide 2
VITA	VITA CAD-Temp monoColor
	VITA CAD-Temp multiColor
	VITA YZ HT
Ivoclar Vivadent	IPS e.max ZirCAD LT
	IPS e.max ZirCAD MT Multi
	IPS Telio CAD
	IPS Telio CAD (Abutment Solutions)
Kuraray Noritake	KATANA Zr STML, KATANA Zr One
Merz Dental	artBloc Temp
3M	Chairside Zirconia

*RZ indicates that it is used for wet milling resin/P-MMA (R) and zirconia (Z).

Carbide milling requires a mill with a serial number

> 202001 (MC)
> 231001 (MC X)
> 129001 (older MC XL)
> 302001 (newer MC XL)

Combination 5
Wet mill, Motor set 1

More Info

Cylinder 12 EF (4-motor only, 0.92 mm tip, 6/pk)

#6535186

Cylinder Pointed 12 EF (4-motor only, 1.18 mm, 6/pk)

#6535178

Works with:

Dentsply Sirona	CEREC Tessera
	Celtra Duo
	CEREC Blocs C, Blocs C PC
VITA	VITABLOCS Mark II, TriLuxe
	VITABLOCS TriLuxe Forte, RealLife
	VITA ENAMIC, multiColor, ST
	VITA ENAMIC IS (abutment)
	SUPRINITY PC
Ivoclar Vivadent	IPS e.max CAD
	IPS e.max CAD (Abutment Solutions)
	IPS Empress CAD, Empress Multi
	Tetric CAD
Kuraray Noritake	KATANA Avencia
3M™	Lava Ultimate
	Paradigm MZ100
GC America	CERASMART
	Initial LRF
SHOFU	BLOCK HC, BLOCK HC (2L)
COLTENE	BRILLIANT Crios

Combination 6
Dry mill, Motor set 1

More Info

Shaper 25 (3/pk)

#6299395

Finisher 10 (3/pk)

#6299387

Dry mill only. Works with:

Dentsply Sirona	CEREC Zirconia, CEREC Zirconia+
	CEREC MTL Zirconia
	inCoris TZI, inCoris TZI C
	inCoris ZI meso (abutment)
VITA	VITA YZ HT
Ivoclar Vivadent	IPS e.max ZirCAD LT
	IPS e.max ZirCAD MT Multi
Kuraray Noritake	KATANA Zr STML, KATANA Zr One
3M	Chairside Zirconia

“Is my older milling unit carbide ready?”
Yes, if you have a MC X / MC XL milling unit with a serial number at least as high as:

MC	202001	MC XL	129001
MC X	231001	MC XL PL	302001

Contact your dealer if not.

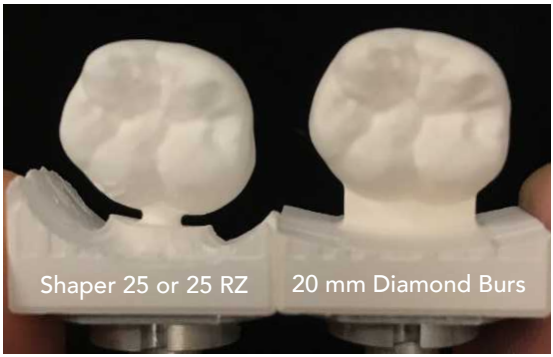
“Do I just need to order the carbide burs?”
No, you will also need a new wrench. The Shaper 25 RZ carbide bur needs to be tightened at a higher torque than the other diamond or carbide burs.

Therefore, a new long-handled wrench is required (part #64 79 856).

Can I use carbide burs for Ivoclar e.max, Ivoclar Empress, 3M Lava Ultimate, VITA ENAMIC, GC America CERASMART?
No, you use them for milling temporary bridges, zirconia (wet milling), and CEREC Guide 2 and 3 blocks.

Is there any esthetic difference between diamond and carbide milling?
For temporary bridge blocks, there's little difference.

But with zirconia, carbide burs provide greater accuracy, smoother surfaces, less chipping at the margins, and a significantly smaller sprue size.



Should I order a second water tank if I wet-mill zirconia?
Yes, the water in the tank contains ceramic milling debris. This doesn't affect ceramics but may cause zirconia to discolor since it's very porous before sintering. Cleaning a zirconia restoration does not remove the cross-contamination left on the surface before sintering.

Do carbide burs mill temporary bridge blocks faster than diamond burs?
No. A four-unit temporary bridge (35mm span) took 16 minutes longer to mill than the same bridge using the standard 12 S diamond burs (60 minutes vs 44 minutes).

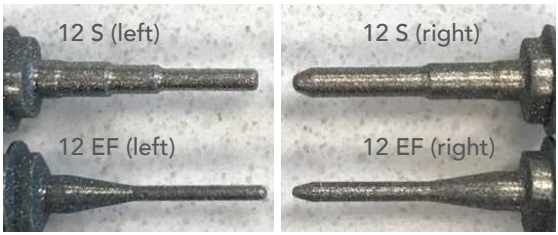
So why would I use these carbide burs?
They are required to mill CEREC Guide 2 & 3 blocks. They are preferred when milling temporary bridge blocks and zirconia because of the smaller sprue size.

The most compelling reason to use carbide burs with temporary bridge blocks is that carbides don't gum up like diamond burs. The friction from the diamonds grinding on the PMMA material softens it and coats the cutting surface. Because of this, you'll often get defective-bur errors. The burs are not defective, but they are gummed up. You may need check on the mill and replace/clean the diamond burs until the restoration finishes.

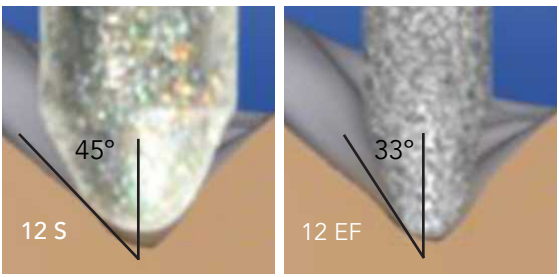
Can my software and milling unit use the 12 EF burs?

Extra Fine milling is available in SW 4.4 or higher with a four-motor milling unit (e.g., MC XL Practice Lab). Place the 12 EF burs in motor set 1 (where the carbides normally go).

The standard 12 S burs do the initial gross reduction (motor set 2). Then the EF burs go back over the restoration removing the final 100-300 microns.



Notice the smaller tips and diameters of the 12 EF burs compared to the standard 12 S burs.



The right pointed 12 EF bur has a 33° angle versus the 45° of the right pointed 12 S bur. This allows it to mill finer details.

Can my software and milling unit use the 12 EF burs?
Extra Fine (EF) milling is available in CEREC SW 4.4 and later if you have a four-motor milling unit (e.g., MC XL Practice Lab).

Can I use 12 EF burs for Ivoclar e.max® and other full-coverage ceramics?
In CEREC SW 4.6, you can use them for all restorations *except* zirconia and temporary bridge blocks.

Do they mill faster than the standard 12 S diamond burs?
No. Milling is twice as long because it mills the entire restoration twice.

So why would I use 12 EF burs?
The burs were developed to help with more complex restorations such as detailed anteriors, deep-fissure molars, and bridges.

Dr. Mike Skramstad said, "Where you will see the major difference is with bridges. [With molars], the surface will be smoother…and the anatomy will be a little bit better. But at the cost of twice the milling time. I only use it for two-appointment procedures (bridges, implant veneering structures, and larger anterior cases)."

What's required to dry mill Dentsply Sirona CEREC Zirconia+ and CEREC MTL Zirconia?
For the MC X / MC XL, you will need SW 5.1.3 material pack or greater, dry-milling carbide burs (Shaper 25 and Finisher 10), and a suction-equipped milling unit.

Do I need a new wrench for the Shaper 25?
No, you use the same short-handled wrench (the one with a green dot on the end) that the diamond burs and the smaller Finisher 10 carbide burs use.

Do I need a second water tank?
No, zirconia is dry milled when the suction unit is activated, so there isn't cross-contamination from the materials that are wet milled.

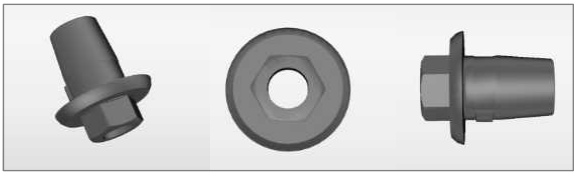
If I already have the Shaper 25 RZ carbide burs, do I still need the Shaper 25 carbide burs?
Yes, you still need the Shaper 25 carbide bur if you have a wet/dry milling unit and want to dry mill zirconia. The Shaper 25 RZ is only used to wet mill zirconia, temporary bridge blocks, and surgical guides. The burs aren't interchangeable.

	ZI meso	IPS e.max	Telio CAD	ENAMIC IS
BioHorizons				
Internal Connection (BH)	■	■	□	□
Camlog (Order Direct)				
CAMLOG, CONELOG, iSy	■	■	□	□
Dentsply Sirona				
Ankylos (ANK C/X)	■	□	□	□
Astra Tech/PrimeTaper/OmniTaper EV (AT EV)	■	■	□	□
Dentsply Sirona others				
DS Frialit / Xive (FX)	■	■	□	■
Nobel Biocare Brånemark (NB B)	■	■	□	■
Nobel Biocare Replace (3-channel, NB RS)	■	■	□	■
Biomet 3i External Hex (B O)	■	□	□	■
Zimmer Tapered Screw-Vent (Z TSV)	■	■	□	■
DS Astra Tech Osseospeed TX (AT OS)	■	■	□	■
Straumannn Tissue Level (synOcta S SO)	■	■	□	■
Biomet 3i Certain® (B C)	■	■	■	■
Straumann Bone Level (CrossFit S BL)	■	■	■	■
Nobel Biocare Active (Conical, NB A)	■	■	□	■
Hiossen ET (O TS)	■	■	□	□
MIS (Order Direct) *see page details for exceptions				
C1, V3 (Conical)	■	*	□	□
SEVEN, M4 (Internal Hex)	■	*	□	□
Straumann (Order Direct) *see page details for exceptions				
Variobase C	*	■	□	□
Thommen Medical				
SPI Element, SPI Contact	■	□	□	□

BioHorizons (BH)

Conical internal-hex connection

30 Ncm Tightening torque



TiBases and ScanPosts come with 1 screw each

Platform 3.0 / Implant Dia. 3.0/3.8

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
65 32 779	65 32 761	64 31 311 (S)	65 61 240

Platform 3.5 / Implant Dia. 3.0/3.5/3.8/4.0/4.6

65 32 894	65 32 886	64 31 329 (L)	65 61 257

Platform 4.5 / Implant Dia. 4.0/4.6/5.0/5.8

65 32 951	65 32 944	64 31 329 (L)	65 61 257

Platform 5.7 / Implant Dia. 5.0/5.8/6.0

65 36 242	65 36 234	64 31 329 (L)	65 61 257

BioHorizons (1 of 2)

Tapered

Birmingham, AL
888-246-8338

diameter	3.0mm	3.4mm	3.8mm
connec.	3.0	3.0	3.0
9.0mm	--	--	TLXP3809
	--	TLX3409	BTA3809
10.5mm	--	--	TLXP3810
	TLX3010	TLX3410	BTA3810
12.0mm	--	--	TLXP3812
	TLX3012	TLX3412	BTA3812
15.0mm	--	--	TLXP3815
	TLX3015	TLX3415	BTA3815
18.0mm	--	TLX3418	BTA3818

TTLx = Tapered Tissue Level Implants

TL = Tapered Internal with Laser-Lok Complete

TLXP = Tapered Plus Implants / BTA = Tapered Pro Implant, Laser-Lok, RBT

TLR = Tapered Internal Implants with 3inOne Abutment

TLX = Mount-Free Tapered Internal Implants

diameter	3.0mm	3.8 / 4.2	4.6mm	4.6/5.2	5.8mm	5.8mm
connec.	3.5	3.5	3.5	4.5	4.5	5.7
7.5mm	--	TTLY3807	--	TTLG4607	--	TTLB5807
	--	--	--	TL4607	--	TL5807
	--	--	TLXP4607	--	TLXP5807	--
	--	--	--	TLR4607	--	TLR5807
	--	--	--	TLX4607	--	TLX5807
9.0mm	--	TTLY3809	--	TTLG4609	--	TTLB5809
	--	--	--	TL4609	--	TL5809
	--	BTA4209	TLXP4609	BTA5209	TLXP5809	--
	--	TLR3809	BTA4609	TLR4609	--	TLR5809
	--	TLX3809	--	TLX4609	--	TLX5809
10.5mm	TTLY3010	TTLY3810	--	TTLG4610	--	TTLB5810
	--	BTA4210	TLXP4610	BTA5210	TLXP5810	--
	--	TLR3810	BTA4610	TLR4610	--	TLR5810
	--	TLX3810	--	TLX4610	--	TLX5810
12.0mm	TTLY3012	TTLY3812	--	TTLG4612	--	TTLB5812
	--	BTA4212	TLXP4612	BTA5212	TLXP5812	--
	--	TLR3812	BTA4612	TLR4612	--	TLR5812
	--	TLX3812	--	TLX4612	--	TLX5812
15.0mm	--	BTA4215	TLXP4615	BTA5215	TLXP5815	--
	--	TLR3815	BTA4615	TLR4615	--	TLR5815
	--	TLX3815	--	TLX4615	--	TXL5815
18.0mm	--	TLX3818	--	TLX4618	--	--
	--	BTA4218	BTA4618	--	--	--

BioHorizons (2 of 2)

Single Stage and Internal

Birmingham, AL
888-246-8338

Single Stage:

LSxR = Single Stage RBT with Laser-Lok

SxR = Single Stage RBT

Internal:

PxLX = Internal Mount-free RBT with Laser-Lok

LPxR = Internal RBT Surface with Laser-Lok

PxR = Internal RBT (Resorbably Blast Texturing)

PxH = Internal Hydroxylapatite (HA)

diameter	3.5mm	4.0mm	4.0mm	5.0mm	5.0mm	6.0mm
connec.	3.5	3.5	4.5	4.5	5.7	5.7
7.0mm	LSYR3507	LSYR4007	LSGR4007	LSGR5007	LSBR5007	LSBR6007
	SYR3507	SYR4007	SGR4007	SGR5007	SBR5007	SBR6007
	--	--	--	--	--	--
	--	--	--	--	--	--
	--	--	--	--	--	--
	--	--	--	--	--	--
9.0mm	LSYR3509	LSYR4009	LSGR4009	LSGR5009	LSBR5009	LSBR6009
	SYR3509	SYR4009	SGR4009	SGR5009	SBR5009	SBR6009
	PYLX3509	--	PGLX4009	--	PBLX5009	PBLX6009
	LPYR3509	--	LPGR4009	--	LPBR5009	LPBR6009
	PYR3509	--	PGR4009	--	PBR5009	PBR6009
	PYH3509	--	PGH4009	--	PBH5009	PBH6009
10.5mm	LSYR35105	LSYR40105	LSGR40105	LSGR50105	LSBR50105	LSBR60105
	SYR35105	SYR40105	SGR40105	SGR50105	SBR50105	SBR60105
	PYLX35105	--	PGLX40105	--	PBLX50105	PBLX60105
	LPYR35105	--	LPGR40105	--	LPBR50105	LPBR60105
	PYR35105	--	PGR40105	--	PBR50105	PBR60105
	PYH35105	--	PGH40105	--	PBH50105	PBH60105
12.0mm	LSYR3512	LSYR4012	LSGR4012	LSGR5012	LSBR5012	LSBR6012
	SYR3512	SYR4012	SGR4012	SGR5012	SBR5012	SBR6012
	PYLX3512	--	PGLX4012	--	PBLX5012	PBLX6012
	LPYR3512	--	LPGR4012	--	LPBR5012	LPBR6012
	PYR3512	--	PGR4012	--	PBR5012	PBR6012
	PYH3512	--	PGH4012	--	PBH5012	PBH6012
15.0mm	LSYR3515	LSYR4015	LSGR4015	LSGR5015	LSBR5015	LSBR6015
	--	--	--	--	--	--
	PYLX3515	--	PGLX4015	--	PBLX5015	PBLX6015
	LPYR3515	--	LPGR4015	--	LPBR5015	LPBR6015
	PYR3515	--	PGR4015	--	PBR5015	PBR6015
	PYH3515	--	PGH4015	--	PBH5015	PBH6015

Camlog (Order Direct)

BioHorizons/Camlog Store 888-246-8338

TiBases and ScanPosts come with 1 screw each

CAMLOG

Size	TiBase	ScanPost	DS Scanbodies
3.3 mm	K2244.3348	K2620.3306	6431311 (S)
3.8 mm	K2244.3848	K2620.3806	6431311 (S)
4.3 mm	K2244.4348	K2620.4306	6431311 (S)
5.0 mm	K2244.5048	K2620.5006	6431329 (L)
6.0 mm	K2244.6048	K2620.6006	6431329 (L)

CONELOG

Size/GH	TiBase	ScanPost	DS Scanbodies
3.3/0.8	C2242.3308	C2620.3306	6431311 (S)
3.8/0.8	C2242.3808	C2620.3806	6431311 (S)
4.3/0.8	C2242.4308	C2620.4306	6431311 (S)
5.0/0.8	C2242.5008	C2620.5006	6431329 (L)
3.3/2.0	C2242.3320	C2620.3306	6431311 (S)
3.8/2.0	C2242.3820	C2620.3806	6431311 (S)
4.3/2.0	C2242.4320	C2620.4306	6431311 (S)
5.0/2.0	C2242.5020	C2620.5006	6431329 (L)

iSy

Size/GH	TiBase	ScanPost	DS Scanbodies
4.5/0.8	P2244.4408	P2620.0006	6431311 (S)
5.2/0.8	P2244.5008	P2620.0006	6431311 (S)
4.5/2.0	P2244.4420	P2620.0006	6431311 (S)
5.2/2.0	P2244.5020	P2620.0006	6431311 (S)

Camlog CAMLOG (1 of 2)

Progressive-Line
Screw-Line

Birmingham, AL
888-246-8338

K1076 = CAMLOG® PROGRESSIVE-LINE Promote® plus (snap-in)
K1075 = CAMLOG® PROGRESSIVE-LINE Promote® plus (screw-mounted)
K1046 = CAMLOG® SCREW-LINE Promote® (snap-in)
K1045 = CAMLOG® SCREW-LINE Promote® (screw-mounted)
K1056 = CAMLOG® SCREW-LINE Promote® plus (snap-in)
K1055 = CAMLOG® SCREW-LINE Promote® plus (screw-mounted)

connec.	3.3	3.8	4.3	5.0	6.0
9 mm	--	K1076.3809	K1076.4309	K1076.5009	--
	--	K1075.3809	K1075.4309	K1075.5009	--
	--	K1046.3809	K1046.4309	K1046.5009	K1046.6009
	--	K1045.3809	K1045.4309	K1045.5009	--
	--	K1056.3809	K1056.4309	K1056.5009	K1056.6009
	--	K1055.3809	K1055.4309	K1055.5009	--
11 mm	K1076.3311	K1076.3811	K1076.4311	K1076.5011	--
	K1075.3311	K1075.3811	K1075.4311	K1075.5011	--
	K1046.3311	K1046.3811	K1046.4311	K1046.5011	K1046.6011
	K1045.3311	K1045.3811	K1045.4311	K1045.5011	--
	K1056.3311	K1056.3811	K1056.4311	K1056.5011	K1056.6011
	K1055.3311	K1055.3811	K1055.4311	K1055.5011	--
13 mm	K1076.3313	K1076.3813	K1076.4313	K1076.5013	--
	K1075.3313	K1075.3813	K1075.4313	K1075.5013	--
	K1046.3313	K1046.3813	K1046.4313	K1046.5013	K1046.6013
	K1045.3313	K1045.3813	K1045.4313	K1045.5013	--
	K1056.3313	K1056.3813	K1056.4313	K1056.5013	K1056.6013
	K1055.3313	K1055.3813	K1055.4313	K1055.5013	--
16 mm	K1076.3316	K1076.3816	K1076.4316	K1076.5016	--
	K1075.3316	K1075.3816	K1075.4316	K1075.5016	--
	K1046.3316	K1046.3816	K1046.4316	K1046.5016	K1046.6016
	K1045.3316	K1045.3816	K1045.4316	--	--
	K1056.3316	K1056.3816	K1056.4316	K1056.5016	K1056.6016
	K1055.3316	K1055.3816	K1055.4316	--	--

Camlog CONELOG (2 of 2)

Screw-Line

Guide System Screw-Line

Birmingham, AL
888-246-8338

K1064 = CONELOG® SCREW-LINE Promote® plus

K1063 = Guide System CONELOG® SCREW-LINE Promote® plus

connec.	3.3	3.8	4.3	5.0
7 mm	--	C1064.3807	C1064.4307	C1064.5007
	--	C1063.3807	C1063.4307	--
9 mm	C1064.3309	C1064.3809	C1064.4309	C1064.5009
	C1063.3309	C1063.3809	C1063.4309	--
11 mm	C1064.3311	C1064.3811	C1064.4311	C1064.5011
	C1063.3311	C1063.3811	C1063.4311	--
13 mm	C1064.3313	C1064.3813	C1064.4313	C1064.5013
	C1063.3313	C1063.3813	C1063.4313	--
16 mm	C1064.3316	C1064.3816	C1064.4316	C1064.5016
	C1063.3316	C1063.3816	C1063.4316	--

Camlog iSy Implants

P1410 = iSy Implants (not 3.8 diameter implants)

connec.	4.5	5.0
7.3 mm	P1410.4407	P1410.5007
9 mm	P1410.4409	P1410.5009
11 mm	P1410.4411	P1410.5011
13 mm	P1410.4413	P1410.5013

Dentsply Sirona Ankylos (ANK C/X)

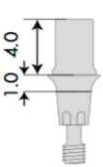
Indexed or non-indexed connection

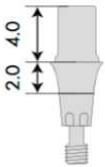
15 Ncm Tightening torque

Implant diameter	Platform size	TiBase top
A, B, C, D	C/X	S

- A (3.5 mm)
- B (4.5 mm)
- C (5.5 mm)
- D (7.0 mm)

C = non-indexed
X = indexed





C (non-indexed)

65 86 528	TiBase + 1 screw	ANK C/ GH1 S
65 86 536	TiBase + 1 screw	ANK C/ GH2 S

(GH1) gingival height 1 = 1.0 mm
(GH2) gingival height 2 = 2.0 mm

X (indexed)

65 86 544	TiBase + 1 screw	ANK X/ GH1 S
65 86 551	TiBase + 1 screw	ANK X/ GH2 S

(GH1) gingival height 1 = 1.0 mm
(GH2) gingival height 2 = 2.0 mm

65 86 569	ScanPost + 1 screw	ANK S
Not avail.	Extra Screws (2/pk)	
64 31 311	ScanBodies for Omni (S) 36/pk	

Dentsply Sirona
Ankylos (ANK C/X)
Non-Indexed / Indexed (six positions)

York, PA
844-848-0137 opt 3

Diameter	A 3.5mm	B 4.5mm	C 5.5mm	D 7.0mm
Connect.	2.5	2.5	2.5	2.5
8.0mm	3101 0405	3101 0425	3101 0453	3101 0472
9.5mm	3101 0408	3101 0428	3101 0455	3101 0474
11.0mm	3101 0410	3101 0430	3101 0458	3101 0476
14.0mm	3101 0420	3101 0440	3101 0460	3101 0478
17.0mm	3101 0422	3101 0450	3101 0470	--

C/

/X

Astra Tech/OmniTaper EV (AT EV)
PrimeTaper EV (AT EV)

Six-position indexing

25 Ncm Tightening torque

Astra Tech Implant EV / OmniTaper EV (S, M, L only)

TiBases and ScanPosts come with 1 screw each

S	**Platform S** / Implant Diameter 3.6 / OmniT 3.4			
TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
65 86 312	65 86 361	64 31 311 (S)	65 86 270

M	**Platform M** / Implant Diameter 4.2 / OmniT 3.8		
65 86 320	65 86 379	64 31 329 (L)	65 86 288

L	**Platform L** / Implant Diameter 4.8 / OmniT 4.5		
65 86 338	65 86 387	64 31 329 (L)	65 86 296

XL	**Platform XL** / Implant Diameter 5.4		
65 86 346	65 86 395	64 31 329 (L)	65 86 714

PrimeTaper Implant EV

TiBases and ScanPosts come with 1 screw each

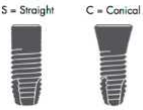
S	**Platform S** / Implant Diameter 3.6		
TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
65 86 312	65 86 361	64 31 311 (S)	65 86 270

M	**Platform M** / Implant Diameter 4.2		
65 86 320	65 86 379	64 31 329 (L)	65 86 288

L	**Platform L** / Implant Diameter 4.8 / 5.4		
65 86 338	65 86 387	64 31 329 (L)	65 86 296

Dentsply Sirona
Astra Tech Implant EV (AT EV)

York, PA
844-848-0137 opt 3



26xxx = Astra Tech Implant EV
25xxx = Astra Tech Osseospeed EV (discontinued part numbers)

diameter	3.6mm S	4.2mm S	4.8mm S 4.2mm C	5.4mm S 4.8mm C
connec.	S	M	L	XL
6mm	26310 / 25221 --	26320 / 25231 --	26340 / 25241 --	26360 / 25251 -- --
8mm	26311 / 25222 --	26321 / 25232 26331 / 25262	26341 / 25242 26351 / 25272	26361 / 25252 --
9mm	26312 / 25223 --	26322 / 25233 26332 / 25263	26342 / 25243 26352 / 25273	26362 / 25253 --
11mm	26313 / 25224 --	26323 / 25234 26333 / 25264	26343 / 25244 26353 / 25274	26363 / 25254 --
13mm	26314 / 25225 --	26324/ 25235 26334 / 25265	26344 / 25245 26354 / 25275	26364 / 25255 --
15mm	26315 / 25226 --	26325 / 25236 26335 / 25266	26345 / 25246 26355 / 25276	26365 / 25256 --
17mm	26316 / 25227 --	26326 / 25237 26336 / 25267	26346 / 25247 26356 / 25277	-- --

PrimeTaper Implant EV (AT EV)

OmniTaper Implant EV (AT EV)

size	S	M	L	L
connec.	3.6	4.2	4.8	5.4
6.5 mm	--	6801 1096	6801 1103	6801 1110
8.0mm	6801 1090	6801 1097	6801 1104	6801 1111
9.0mm	6801 1091	6801 1098	6801 1105	6801 1112
11.0mm	6801 1092	6801 1099	6801 1106	6801 1113
13.0mm	6801 1093	6801 1100	6801 1107	6801 1114
15.0mm	6801 1094	6801 1101	6801 1108	6801 1115
17.0mm	6801 1095	6801 1102	6801 1109	--

OmniT	3.4	3.8	4.5
8.0mm	--	6801 1148	6801 1154
9.5mm	6801 1143	6801 1149	6801 1155
11.0mm	6801 1144	6801 1150	6801 1156
13.0mm	6801 1145	6801 1151	6801 1157
15.0mm	6801 1146	6801 1152	6801 1158
18.0mm	6801 1147	6801 1153	6801 1159

Dentsply Sirona Frialit / XiVE (FX)

Internal Hex connection

25 Ncm Tightening torque

TiBases and ScanPosts come with 1 screw each

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
Platform 3.4 / Implant Diameter 3.4			
62 82 433	64 30 891	64 31 311 (S)	64 60 476
Platform 3.8 / Implant Diameter 3.8			
62 82 441	64 30 909	64 31 311 (S)	64 60 476
Platform 4.5 / Implant Diameter 4.5			
62 82 458	64 30 917	64 31 329 (L)	64 60 476
Platform 5.5 / Implant Diameter 5.5			
62 82 466	64 30 925	64 31 329 (L)	64 60 476

Dentsply Sirona
Frialit / XiVE (FX)
Internal Hex

York, PA
844-848-0137 opt 3

26- = XiVE S plus

diameter	3.4mm	3.8mm	4.5mm	5.5mm
connec.	3.4	3.8	4.5	5.5
8.0mm	--	26-2440	26-2450	26-2460
9.5mm	26-2431	26-2441	26-2451	26-2461
11.0mm	26-2432	26-2442	26-2452	26-2462
13.0mm	26-2433	26-2443	26-2453	26-2463
15.0mm	26-2435	26-2445	26-2455	26-2465
18.0mm	26-2438	26-2448	26-2458	--

Note:
TG = Transgingival (implant/abutment as one piece)
No need for a TiBase because the abutment is built in)

Nobel Biocare Brånemark (NB B)

External hex connection

35 Ncm Tightening torque

TiBases and ScanPosts come with 1 screw each

Platform NP / Implant Diameter 3.3

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
62 82 516	64 31 006	64 31 329 (L)	64 60 500

Platform RP / Implant Diameter 3.75 / 4.0

62 82 524	64 31 022	64 31 329 (L)	64 60 518

Nobel Biocare
Brånemark (NB B)
External hex connection

Yorba Linda, CA
800-322-5001

Brånemark System Mk III TiUnite
Brånemark System Mk IV TiUnite
Brånemark System Mk III Groovy

diameter	3.3mm	3.75mm	4.0mm
connec.	NP	RP	RP
7.0mm	--	28911	28918
	--	--	28932
	--	32118	32125
8.5mm	--	28912	28919
	--	--	28933
	--	32119	32126
10mm	28906	28913	28920
	--	--	28934
	32114	32120	32127
11.5mm	28907	28914	28921
	--	--	28935
	32115	32121	32128
13.0mm	28908	28915	28922
	--	--	28936
	32116	32122	32129
15.0mm	28909	28916	28923
	--	--	28937
	32117	32123	32130
18.0mm	--	28917	28924
	--	--	28938
	--	32124	32131

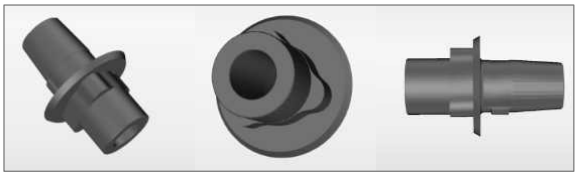
NobelSpeedy Groovy

diameter	3.3mm	4.0mm	5.0mm
connec.	NP	RP	RP
7.0mm	37609	32146	37685
8.5mm	37610	32147	37686
10mm	33123	32148	37687
11.5mm	33124	32149	37688
13.0mm	33125	32150	37689
15.0mm	33126	32151	37690
18.0mm	--	32152	37691
20.0mm	--	37611	--
22.0mm	--	37612	--
25.0mm	--	37613	--

Nobel Biocare Replace (NB RS)

Internal tri-channel connection

35 Ncm Tightening torque



TiBases and ScanPosts come with 1 screw each

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
Platform NP / Implant Diameter 3.5			
62 82 474	64 30 933	64 31 329 (L)	64 60 526
Platform RP / Implant Diameter 4.3			
62 82 482	64 30 941	64 31 329 (L)	64 60 534
Platform WP / Implant Diameter 5			
62 82 490	64 30 958	64 31 329 (L)	64 60 534
Platform 6 / Implant Diameter 6			
62 82 508	64 30 982	64 31 329 (L)	64 60 534

Nobel Biocare
Replace (NB RS)
Internal tri-channel connection

Yorba Linda, CA
800-322-5001

36- = Replace Select™ Tapered

37- = Replace Select Tapered PMC (Partially Machined Collar)

32- = NobelReplace Tapered

diameter	3.5mm	4.3mm	5.0mm	6.0mm
connec.	NP	RP	WP	6.0
8.0mm	36104	36106	36108	36110
	37300	37305	37310	37315
	32211	32215	32219	32223
10.0mm	29401	29413	29423	32949
	37301	37306	37311	37316
	32212	32216	32220	32224
11.5mm	36105	36107	36109	36111
	37302	37307	37312	37317
	36100	36101	36102	36103
13.0mm	29402	29414	29424	32950
	37303	37308	37313	37318
	32213	32217	32221	32225
16.0mm	29403	29415	29425	--
	37304	37309	37314	37319
	32214	32218	32222	32226

Biomet 3i External Hex (B O)

External hex connection

35 Ncm Tightening torque

TiBases and ScanPosts come with 1 screw each

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
Platform 3.4 / Implant Diameter 3.4			
62 82 557	64 31 089	64 31 329 (L)	62 60 468
Platform 4.1 / Implant Diameter 4.1			
62 82 565	64 31 105	64 31 329 (L)	64 60 468
Platform 5.0 / Implant Diameter 5.0			
62 82 573	64 31 113	64 31 329 (L)	64 60 468

Biomet 3i (1 of 2)

External Hex

Parallel Walled

Zimmer Biomet
Florida
800-342-5454

NOSx = NanoTite™ Parallel Walled Implants

OSx = OSSEOTITE® Parallel Walled Implants

FOS = Full OSSEOTITE Parallel Walled Implants

diameter	3.25mm	3.7mm	4.0mm	5.0mm
connec.	3.4	4.1	4.1	5.0
7.0mm	--	--	NOSS407	NOSS507
	--	--	--	OSS507
	FOSM307	FOS307	FOS407	FOS507
8.5mm	NOSM385	--	NOSS485	NOSS585
	OSM385	OSS385	OSS485	OSS585
	FOSM385	FOS385	FOS485	FOS585
10.0mm	NOSM310	--	NOSS410	NOSS510
	OSM310	OSS310	OSS410	OSS510
	FOSM310	FOS310	FOS410	FOS510
11.5mm	NOSM311	--	NOSS411	NOSS511
	OSM311	OSS311	OSS411	OSS511
	FOSM311	FOS313	FOS411	FOS511
13.0mm	NOSM313	--	NOSS413	NOSS513
	OSM313	OSS313	OSS413	OSS513
	FOSM313	FOS313	FOS412	FOS513
15.0mm	NOSM315	--	NOSS415	NOSS515
	OSM315	OSS315	OSS415	OSS515
	FOSM315	FOS315	FOS415	FOS515
18.0mm	NOSM318	--	NOSS418	NOSS518
	OSM318	OSS318	OSS418	OSS418
	--	--	--	--
20.0mm	--	--	--	--
	--	OSS320	OSS420	--
	--	--	--	--

Biomet 3i (2 of 2)
External Hex
Tapered

Zimmer Biomet
Florida
800-342-5454

NNT = NanoTite™ Tapered Implants

NT = OSSEOTITE® Tapered Implants

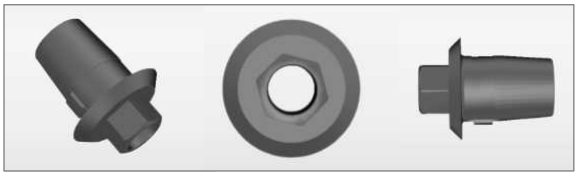
FNT = Full OSSEOTITE Tapered Implants

diameter	3.25mm	4.0mm	5.0mm
connec.	3.4	4.1	5.0
8.5mm	NNT3285 NT3285 FNT3285	NNT485 NT485 FNT485	NNT585 NT585 FNT585
10.0mm	NNT3210 NT3210 FNT3210	NNT410 NT410 FNT410	NNT510 NT510 FNT510
11.5mm	NNT3211 NT3211 FNT3211	NNT411 NT411 FNT411	NNT511 NT511 FNT511
13.0mm	NNT3213 NT3213 FNT3213	NNT413 NT413 FNT413	NNT513 NT513 FNT513
15.0mm	NNT3215 NT3215 FNT3215	NNT415 NT415 FNT415	NNT515 NT515 FNT515

Zimmer Tapered Screw-Vent (Z TSV)

Internal hex connection

30 Ncm Tightening torque



TiBases and ScanPosts come with 1 screw each

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
Platform 3.5 / Implant Diameter 3.7 / 4.1			
62 82 581	64 31 139	64 31 329 (L)	64 60 575
Platform 4.5 / Implant Diameter 4.7			
62 82 599	64 31 147	64 31 329 (L)	64 60 575
Platform 5.7 / Implant Diameter 6			
62 82 607	64 31 154	64 31 329 (L)	64 60 575

Zimmer
Tapered Screw-Vent (Z TSV)
Internal hex connection

Zimmer Biomet
Florida
800-342-5454

TSV**T** MTX Tapered w/ Full MTX Surface Texturing and Microgrooves

TSV**M** MTX Tapered w/ 0.5mm Machined Collar, TMX and Microgrooves

TSV™ MTX Tapered w/ MTX surface

TSV**T** MP-1® HA Tapered Textured Collar, Microgrooves, MP-1 HA Sel. Surface

TSV**M** MP-1 HA Tapered w/ 0.5mm Machined Collar, Microgrooves, MP-1 HA

TSV MP-1 HA Tapered MP-1 HA Sel. Surface

diameter	3.7mm	4.1mm	4.7mm	6.0mm
connec.	3.5mm	3.5mm	4.5mm	5.7mm
8.0mm	TSV**T**B8	TSV**T**4B8	TSV**T**WB8	TSV**T**6B8
	TSV**M**B8	TSV**M**4B8	TSV**M**WB8	TSV**M**6B8
	TSVB8	TSV4B8	TSVWB8	TSV6B8
	TSV**T**H8	TSV**T**4H8	TSV**T**WH8	TSV**T**6H8
	TSV**M**H8	TSV**M**4H8	TSV**M**WH8	TSV**M**6H8
	TSVH8	TSV4H8	TSVWH8	TSV6H8
10.0mm	TSV**T**B10	TSV**T**4B10	TSV**T**WB10	TSV**T**6B10
	TSV**M**B10	TSV**M**4B10	TSV**M**WB10	TSV**M**6B10
	TSVB10	TSV4B10	TSVWB10	TSV6B10
	TSV**T**H10	TSV**T**4H10	TSV**T**WH10	TSV**T**6H10
	TSV**M**H10	TSV**M**4H10	TSV**M**WH10	TSV**M**6H10
	TSVH10	TSV4H10	TSVWH10	TSV6H10
11.5mm	TSV**T**B11	TSV**T**4B11	TSV**T**WB11	TSV**T**6B11
	TSV**M**B11	TSV**M**4B11	TSV**M**WB11	TSV**M**6B11
	TSVB11	TSV4B11	TSVWB11	TSV6B11
	TSV**T**H11	TSV**T**4H11	TSV**T**WH11	TSV**T**6H11
	TSV**M**H11	TSV**M**4H11	TSV**M**WH11	TSV**M**6H11
	TSVH11	TSV4H11	TSVWH11	TSV6H11
13.0mm	TSV**T**B13	TSV**T**4B13	TSV**T**WB13	TSV**T**6B13
	TSV**M**4B13	TSV**M**4B13	TSV**M**WB13	TSV**M**6B13
	TSVB13	TSV4B13	TSVWB13	TSV6B13
	TSV**T**H13	TSV**T**4H13	TSV**T**WH13	TSV**T**6H13
	TSV**M**H13	TSV**M**4H13	TSV**M**WH13	TSV**M**6H13
	TSVH13	TSV4H13	TSVWH13	TSV6H13
16.0mm	TSV**T**B16	TSV**T**4B16	TSV**T**WB16	TSV**T**6B16
	TSV**M**B16	TSV**M**4B16	TSV**M**WB16	TSV**M**6B16
	TSVB16	TSV4B16	TSVWB16	TSV6B16
	TSV**T**H16	TSV**T**4H16	TSV**T**WH16	TSV**T**6H16
	TSV**M**H16	TSV**M**4H16	TSV**M**WH16	TSV**M**6H16
	TSVH16	TSV4H16	TSVWH16	TSV6H16

Astra Tech Osseospeed TX (AT OS)

Conical Seal Design, Internal Double Hex

25 Ncm Tightening torque

TiBases and ScanPosts come with 1 screw each

Platform 3.5 / 4.0 / Implant Dia. 3.5 S / 4.0 S

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
62 82 532	64 31 055	64 31 329 (L)	64 60 344

Platform 4.5 / 5.0 / Implant Dia. 4.5 / 5.0 / 5.0 S

62 82 540	64 31 063	64 31 329 (L)	64 60 443

Dentsply Sirona

Astra Tech Osseospeed TX (AT OS)

Conical Seal Design, Internal Double Hex

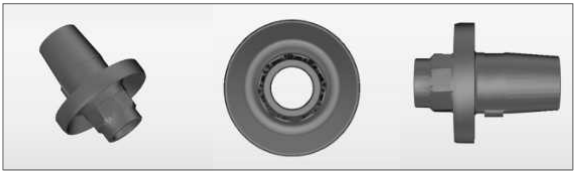
York, PA
844-848-0137 opt 3

diameter	3.5mm S	4.0mm S	4.5mm	5.0mm	5.0mm S
connec.	3.5/4.0	3.5/4.0	4.5/5.0	4.5/5.0	4.5/5.0
6.0mm	--	24939	--	--	--
8.0mm	24930	24940	--	--	--
9.0mm	24931	24941	24951	24961	24971
11.0mm	24932	24942	24952	24962	24972
13.0mm	24933	24943	24953	24963	24973
15.0mm	24934	24944	24954	24964	24974
17.0mm	24935	24945	24955	24965	24975

Straumann Standard Tissue Level (S SO)

synOcta® (hex) connection

35 Ncm Tightening torque



TiBases and ScanPosts come with 1 screw each

Platform RN (4.8mm) / Implant Dia. 3.3 / 4.1 / 4.8

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
62 84 249	64 31 170	64 31 329 (L)	64 60 567

Platform WN (6.5mm) / Implant Diameter 4.8

62 84 256	64 31 196	64 31 329 (L)	64 60 567

Straumann
Standard Tissue Level (S SO)
synOcta® (hex) connection

Andover, MA
978-747-2500

Note: Dentsply Sirona doesn't make a TiBase for the NNC platform (Narrow Neck CrossFit®).

Roxolid® SLActive® / Roxolid SLA®

diameter	**3.3mm Standard Plus**	3.3mm Standard	3.3mm Tapered Effect
connec.	RN (4.8mm)	RN (4.8mm)	RN (4.8mm)
8mm	033.511S / 043.260S	033.501S / 043.255S	033.521S / 043.264S
10mm	033.512S / 043.261S	033.502S / 043.256S	033.522S / 043.265S
12mm	033.513S / 043.262S	033.503S / 043.257S	033.523S / 043.266S
14mm	033.514S / 043.263S	033.504S / 043.258S	033.524S / 043.267S
16mm	--	033.505S / 043.259S	--

diameter	**4.1mm Standard Plus**	4.1mm Standard	4.1mm Tapered Effect
connec.	RN (4.8mm)	RN (4.8mm)	RN (4.8mm)
6mm	033.560S / 043.161S	033.530S / 043.155S	--
8mm	033.561S / 043.162S	033.531S / 043.156S	033.571S / 043.166S
10mm	033.562S / 043.163S	033.532S / 043.157S	033.572S / 043.167S
12mm	033.563S / 043.164S	033.533S / 043.158S	033.573S / 043.168S
14mm	033.564S / 043.165S	033.534S / 043.159S	033.574S / 043.169S
16mm	--	033.535S / 043.160S	--

diameter	**4.8mm Standard Plus**	4.8mm Standard
connec.	RN (4.8mm)	RN (4.8mm)
6mm	033.590S / 043.066S	033.580S / 043.061S
8mm	033.591S / 043.067S	033.581S / 043.062S
10mm	033.592S / 043.068S	033.582S / 043.063S
12mm	033.593S / 043.069S	033.583S / 043.064S
14mm	033.594S / 043.070S	033.584S / 043.065S

See next page for WN

Straumann

Standard Tissue Level (S SO)

synOcta® (hex) connection

Andover, MA
978-747-2500

Roxolid® SLActive® / Roxolid SLA®

diameter	**4.8mm Standard Plus**	4.8mm Standard	4.8mm Tapered Effect
connec.	WN (6.5mm)	WN (6.5mm)	WN (6.5mm)
6mm	033.610S / 043.655S	033.600S / 043.606S	--
8mm	033.611S / 043.656S	033.601S / 043.607S	--
10mm	033.612S / 043.657S	033.602S / 043.608S	033.622S / 043.660S
12mm	033.613S / 043.658S	033.603S / 043.609S	033.623S / 043.661S
14mm	--	--	033.624S / 043.662S

Biomet 3i Certain (B C)

Internal connection (6/12 hex)

20 Ncm Tightening torque

TiBases and ScanPosts come with 1 screw each

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
Platform 3.4 / Implant Diameter 3.4			
63 08 048	64 31 212	64 31 311 (S)	64 60 450
Platform 4.1 / Implant Diameter 4.1			
63 08 097	64 31 220	64 31 329 (L)	64 60 450
Platform 5.0 / Implant Diameter 5.0			
63 08 121	64 31 238	64 31 329 (L)	64 60 450

Biomet 3i
Certain
PREVAIL /Tapered

Zimmer Biomet
Florida
800-342-5454

NIITP = NanoTite Tapered Certain PREVAIL

diameter	4.1mm	5.0mm	5.8mm
connec.	3.4	4.1	5.0
8.5mm	NIITP4385	NIITP5485	NIITP6585
10.0mm	NIITP4310	NIITP5410	NIITP6510
11.5mm	NIITP4311	NIITP5411	NIITP6511
13.0mm	NIITP4313	NIITP5413	NIITP6513
15.0mm	NIITP4315	NIITP5415	NIITP6515

NIIO = NanoTite™ Certain PREVAIL®

IIOS = OSSEOTITE® Certain PREVAIL

NINT = NanoTite Tapered Certain

INT = OSSEOTITE Tapered Certain

IFTN = Full OSSEOTITE Tapered Certain

diameter	3.25mm	4.0mm	4.0mm	5.0mm	5.0mm
connec.	3.4	3.4	4.1	4.1	5.0
8.5mm	NIIOS3485	NIIOS4385	NIIOS4585	NIIOS5485	NIIOS5685
	IIOS3485	IIOS4385	IIOS4585	IIOS5485	IIOS5685
	NINT3285	--	NINT485	--	NINT585
	INT3285	--	INT485	--	INT585
	IFNT3285	--	IFNT485	--	IFNT585
10.0mm	NIIOS3410	NIIOS4310	NIIOS4510	NIIOS5410	NIIOS5610
	IIOS3410	IIOS4310	IIOS4510	IIOS5410	IIOS5610
	NINT3210	--	NINT410	--	NINT510
	INT3210	--	INT410	--	INT510
	IFNT3210	--	IFNT410	--	IFNT510
11.5mm	NIIOS3411	NIIOS4311	NIIOS4511	NIIOS5411	NIIOS5611
	IIOS3411	IIOS4311	IIOS4511	IIOS5411	IIOS5611
	NINT3211	--	NINT411	--	NINT511
	INT3211	--	INT411	--	INT511
	IFNT3211	--	IFNT411	--	IFNT511
13.0mm	NIIOS3413	NIIOS4313	NIIOS4513	NIIOS5413	NIIOS5613
	IIOS3413	IIOS4313	IIOS4513	IIOS5413	IIOS5613
	NINT3213	--	NINT413	--	NINT513
	INT3213	--	INT413	--	INT513
	IFNT3213	--	IFNT413	--	IFNT513
15.0mm	NIIOS3415	NIIOS4315	NIIOS4515	NIIOS5415	NIIOS5615
	IIOS3415	IIOS4315	IIOS4515	IIOS5415	IIOS5615
	NINT3215	--	NINT415	--	NINT515
	INT3215	--	INT415	--	INT513
	IFNT3215	--	IFNT415	--	IFNT515

Biomet 3i
Certain
Parallel Walled

Zimmer Biomet
Florida
800-342-5454

NIOS = NanoTite Parallel Walled Certain

IOS = OSSEOTITE® Parallel Walled Certain

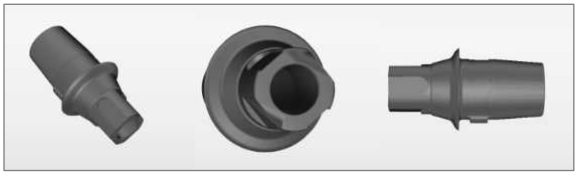
IFOS = Full OSSEOTITE Parallel Walled Certain

diameter	3.25mm	4.0mm	5.0mm
connec.	3.4	4.1	5.0
8.5mm	NIOSM385	NIOSS485	NIOSS585
	IOSM385	IOSS485	IOSS585
	IFOSM385	IFOS485	IFOS585
10.0mm	NIOSM310	NIOSS410	NIOSS510
	IOSM310	IOSS410	IOSS510
	IFOSM310	IFOS410	IFOS510
11.5mm	NIOSM311	NIOSS411	NIOSS511
	IOSM311	IOSS411	IOSS511
	IFOSM311	IFOS411	IFOS511
13.0mm	NIOSM313	NIOSS413	NIOSS513
	IOSM313	IOSS413	IOSS513
	IFOSM313	IFOS413	IFOS513
15.0mm	NIOSM315	NIOSS415	NIOSS515
	IOSM315	IOSS415	IOSS515
	IFOSM315	IFOS415	IFOS515
18.0mm	NIOSM318	NIOSS418	--
	IOSM318	IOSS418	--
	--	--	--
20.0mm	--	--	--
	--	IOSS420	--
	--	--	--

Straumann Bone Level (S BL)

CrossFit® connection

35 Ncm Tightening torque



TiBases and ScanPosts come with 1 screw each

Platform NC (3.3 mm) / Implant Dia. 3.3

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
63 08 154	64 31 246	64 31 329 (L)	64 60 542

Platform RC (4.1 / 4.8) / Implant Dia. 4.1 / 4.8

63 08 337	64 31 253	64 31 329 (L)	64 60 542

Straumann
Bone Level (S BL)
CrossFit connection (4 grooves)

Andover, MA
978-747-2500

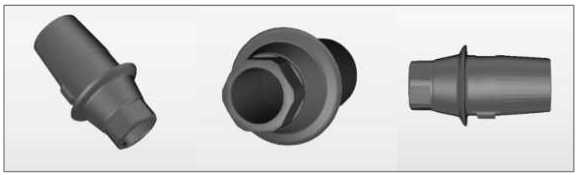
Roxolid® SLActive® Bone Level
Roxolid SLActive Bone Level Tapered
Roxolid SLA® Bone Level
Roxolid SLA® Bone Level Tapered

diameter	3.3mm	4.1mm	4.8mm
connec.	NC	RC	RC
8.0mm	021.2308	021.4308	021.6308
	021.3308	021.5308	021.7308
	021.2508	021.4508	021.6508
	021.3508	021.5508	021.7508
10mm	021.2310	021.4310	021.6310
	021.3310	021.5310	021.7310
	021.2510	021.4510	021.6510
	021.3510	021.5510	021.7510
12.0mm	021.2312	021.4312	021.6312
	021.3312	021.5312	021.7312
	021.2512	021.4512	021.6512
	021.3512	021.5512	021.7512
14.0mm	021.2314	021.4314	021.6314
	021.3314	021.5314	021.7314
	021.2514	021.4514	021.6514
	021.3514	021.5514	021.7514
16.0mm	--	--	--
	021.3316	021.5316	021.7316
	--	--	--
	021.3516	021.5516	021.7516
18.0mm	--	--	--
	021.3318	021.5318	021.7318
	--	--	--
	021.3518	021.5518	021.7518

Nobel Biocare Nobel Active (NB A)

Internal conical connection

25 Ncm torque (for NP), 35 Ncm (for RP)



TiBases and ScanPosts come with 1 screw each

Platform NP / Implant Diameter 3.5

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
63 08 188	64 31 279	64 31 329 (L)	64 60 484

Platform RP / Implant Diameter 4.3 / 5.0

63 08 253	64 31 287	64 31 329 (L)	64 60 492

Nobel Biocare
Active (NB A)
Internal conical connection

Yorba Linda, CA
800-322-5001

35- 34- / 300244–300261 = NobelActive / NobelActive TiUltra

379- / 300295–300315= NobelParallel Conical Connection / NobelParallel CC TiUltra

diameter	3.5mm	4.3mm	5.0mm
connec.	NP	RP	RP
7.0mm	--	--	--
	37963 / 300295	37970 / 300302	37977 / 300309
8.5mm	35221 / 300244	35223 / 300250	35225 / 300256
	37964 / 300296	37971 / 300303	37978 / 300310
10mm	34125 / 200245	34131 / 300251	34137 / 300257
	37965 / 300297	37972 / 300304	37979 / 300311
11.5mm	34126 / 300246	34132 / 300252	34138 / 300258
	37966 / 300298	37973 / 300305	37980 / 300312
13.0mm	34127 / 300247	34133 / 300253	34139 / 300259
	37967 / 300299	37974 / 300306	37981 / 300313
15.0mm	34128 / 300248	34134 / 300254	34140 / 300260
	37968 / 300300	37975 / 300307	37982 / 300314
18.0mm	35215 / 300249	35219 / 300255	35220 / 300261
	37969 / 300301	37976 / 300308	37983 / 300315

36- = NobelReplace® CC (Conical Connection) / 300337–300351 = TiUltra

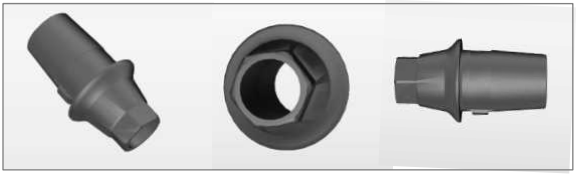
372- = NobelReplace® Conical Connection PMC (Partially Machined Collar)

diameter	3.5mm	4.3mm	5.0mm
connec.	NP	RP	RP
8.0mm	36699 / 300337	36704 / 300342	36710 / 300347
	37284	37290	37295
10mm	36700 / 300338	36705 / 300343	36711 / 300348
	37285	37291	37296
11.5mm	36701 / 300339	36707 / 300344	36712 / 300349
	37287	37292	37297
13.0mm	36702 / 300340	36708 / 300345	36713 / 300350
	37288	37293	37298
16.0mm	36703 / 300341	36709 / 300346	36714 / 300351
	37289	37294	37299

Osstem TS **/ Hiossen** ET (O TS)

Internal hex connection

20 Ncm torque (for Mini), 30 Ncm (for Std.)



TiBases and ScanPosts come with 1 screw each

Platform Mini / Implant Dia. 3.5

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
65 27 035	65 34 197	64 31 329 (L)	65 61 208

Platform Standard / Dia. 4.0 / 4.5 / 5.0 / 6.0 / 7.0

65 27 043	65 36 846	64 31 329 (L)	65 61 232

Osstem TS **/ Hiossen** ET (O TS)

Internal hex connection

Englewood Cliff, NJ
888-678-0001

ET3 x#### S = ETIII SA (Taper Body)

ET2 x#### S = ETII SA (Straight Body)

ET3 x#### B = ETIII BA (Taper Body)

diameter	3.5mm	4.0mm	4.5mm	5.0mm	6.0mm	7.0mm
connec.	Mini	Regular	Regular	Regular	Regular	Regular
6.0mm	--	--	--	ET3R**5006S**	ET3R**6006S**	ET3R**7006S**
	--	--	--	ET2R**5006S**	--	--
	--	--	--	--	--	--
7.0mm	--	ET3R**4007S**	ET3R**4507S**	ET3R**5007S**	ET3R**6007S**	ET3R**7007S**
	--	ET2R**4007S**	ET2R**4507S**	ET2R**5007S**	--	--
	--	ET3M**4007B**	ET3M**4507B**	ET3M**5007B**	--	--
8.5mm	ET3M**3508S**	ET3R**4008S**	ET3R**4508S**	ET3R**5008S**	ET3R**6008S**	ET3R**7008S**
	ET2M**3508S**	ET2R**4008S**	ET2R**4508S**	ET2R**5008S**	--	--
	ET3M**3508B**	ET3M**4008B**	ET3M**4508B**	ET3M**5008B**	--	--
10.0mm	ET3M**3510S**	ET3R**4010S**	ET3R**4510S**	ET3R**5010S**	ET3R**6010S**	ET3R**7010S**
	ET2M**3510S**	ET2R**4010S**	ET2R**4510S**	ET2R**5010S**	--	--
	ET3M**3510B**	ET3M**4010B**	ET3M**4510B**	ET3M**5010B**	--	--
11.5mm	ET3M**3511S**	ET3R**4011S**	ET3R**4511S**	ET3R**5011S**	ET3R**6011S**	ET3R**7011S**
	ET2M**3511S**	ET2R**4011S**	ET2R**4511S**	ET2R**5011S**	--	--
	ET3M**3511B**	ET3M**4011B**	ET3M**4511B**	ET3M**5011B**	--	--
13.0mm	ET3M**3513S**	ET3R**4013S**	ET3R**4513S**	ET3R**5013S**	ET3R**6013S**	ET3R**7013S**
	ET2M**3513S**	ET2R**4013S**	ET2R**4513S**	ET2R**5013S**	--	--
	ET3M**3513B**	ET3M**4013B**	ET3M**4513B**	ET3M**5013B**	--	--
15.0mm	ET3M**3515S**	ET3R**4015S**	ET3R**4515S**	ET3R**5015S**	--	--
	ET2M**3515S**	ET2R**4015S**	ET2R**4515S**	ET2R**5015S**	--	--
	ET3M**3515B**	ET3M**4013B**	ET3M**4515B**	ET3M**5015B**	--	--

MIS (Order Direct)

C1 and V3 Implants (Conical connection)

30 Ncm Tightening torque

C1 (TiBase + 1 Screw, Scanbody 64 31 329 sold sep.)

	Part #	
NP 3.3		
GH 0.5 L	**CN-TB001**	C1 NP GH 0.5
GH 1.5 L	**CN-TB015**	C1 NP GH 1.5
GH 3.0 L	**CN-TB030***	C1 NP GH 3.0
SP 3.7, 4.2		
GH 0.5 L	**CS-TB001**	C1/V3 SP GH 0.5
GH 1.5 L	**CS-TB015**	C1/V3 SP GH 1.5
GH 3.0 L	**CS-TB030**	C1/V3 SP GH 3.0
WP 5.0		
GH 0.5 L	**CW-TB001**	C1 WP GH 0.5
GH 1.5 L	**CW-TB015**	C1 WP GH 1.5
GH 3.0 L	**CW-TB030**	C1 WP GH 3.0

V3 (TiBase + 1 Screw, Scanbody 64 31 329 sold sep.)

	Part #	
NP 3.3		
GH 0.5 L	**VN-TB001**	V3 NP GH 0.5
GH 1.5 L	**VN-TB015**	V3 NP GH 1.5
GH 3.0 L	**VN-TB030***	V3 NP GH 3.0
SP 3.9, 4.3, 5.0		
GH 0.5 L	**CS-TB001**	C1/V3 SP GH 0.5
GH 1.5 L	**CS-TB015**	C1/V3 SP GH 1.5
GH 3.0 L	**CS-TB030**	C1/V3 SP GH 3.0

***compatible with inCoris ZI meso, but not e.max**

Gingival Height 0.5 | Gingival Height 1.5 | Gingival Height 3.0

For more information or to place an order, call your Dentsply Sirona MIS Implant Specialist.

MIS Store

866-797-1333

MIS (Order Direct)

C1 and V3 Implants (Conical connection)

866-797-1333

C1 Implants

connec.	3.3	3.7	4.2	5.0
8 mm	--	C1-**08**375	C1-**08**420	C1-**08**500
10 mm	C1-**10**330	C1-**10**375	C1-**10**420	C1-**10**500
11.5 mm	C1-**11**330	C1-**11**375	C1-**11**420	C1-**11**500
13 mm	C1-**13**330	C1-**13**375	C1-**13**420	C1-**13**500
16 mm	C1-**16**330	C1-**16**375	C1-**16**420	C1-**16**500

V3 Implants

connec.	3.3	3.9	4.3	5.0
8 mm	--	V3-**08**390	V3-**08**430	V3-**08**500
10 mm	V3-**10**330	V3-**10**390	V3-**10**430	V3-**10**500
11.5 mm	V3-**11**330	V3-**11**390	V3-**11**430	V3-**11**500
13 mm	V3-**13**330	V3-**13**390	V3-**13**430	V3-**13**500
16 mm	V3-**16**330	V3-**16**390	V3-**16**430	V3-**16**500

MIS (Order Direct)

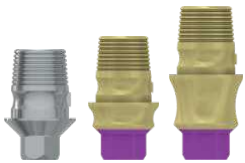
SEVEN or M4 Implants (Internal hex connection)

30 Ncm Tightening torque

SEVEN or M4 (TiBase + 1 screw, Scanbody sold sep.)

	Part #	
NP 3.3		
GH 0.5 L	**MN-TB001**	INT HEX NP GH 0.5
GH 1.5 L	**MN-TBC15**	INT HEX NP GH 1.5
GH 3.0 L	**MN-TBC30***	INT HEX NP GH 3.0
SP 3.75, 4.2		
GH 0.5 L	**MD-TB001**	INT HEX SP GH 0.5
GH 1.5 L	**MD-TBC15**	INT HEX SP GH 1.5
GH 3.0 L	**MD-TBC30**	INT HEX SP GH 3.0
WP 5.0, 6.0		
GH 0.5 L	**MW-TB001**	INT HEX WP GH 0.5
GH 1.5 L	**MW-TBC15**	INT HEX WP GH 1.5
GH 3.0 L	**MW-TBC30**	INT HEX WP GH 3.0

***compatible with inCoris ZI meso, but not e.max**



Gingival Height 0.5 | Gingival Height 1.5 | Gingival Height 3.0

For more information or to place an order, call your Dentsply Sirona MIS Implant Specialist.

MIS Store

866-797-1333

MIS (Order Direct)

SEVEN or M4 Implants (Internal hex connection)

866-797-1333

SEVEN Implants

connec.	3.3	3.75	4.2	5.0	6.0
6 mm	--	--	MF7-**06**420	MF7-**06**500	MF7-**06**600
8 mm	--	MF7-**08**375	MF7-**08**420	MF7-**08**500	MF7-**08**600
10 mm	MF7-**10**330	MF7-**10**375	MF7-**10**420	MF7-**10**500	MF7-**10**600
11.5 mm	MF7-**11**330	MF7-**11**375	MF7-**11**420	MF7-**11**500	MF7-**11**600
13 mm	MF7-**13**330	MF7-**13**375	MF7-**13**420	MF7-**13**500	MF7-**13**600
16 mm	MF7-**16**330	MF7-**16**375	MF7-**16**420	MF7-**16**500	--
18 mm	--	MF7-**18**375	MF7-**18**420	--	--
20 mm	--	MF7-**20**375	MF7-**20**420	--	--

M4 Implants

connec.	3.3	3.75	4.2	5.0	6.0
6 mm	--	--	MF4-**06**420	MF4-**06**500	MF4-**06**600
8 mm	--	MF4-**08**375	MF4-**08**420	MF4-**08**500	MF4-**08**600
10 mm	MF4-**10**330	MF4-**10**375	MF4-**10**420	MF4-**10**500	MF4-**10**600
11.5 mm	MF4-**11**330	MF4-**11**375	MF4-**11**420	MF4-**11**500	MF4-**11**600
13 mm	MF4-**13**330	MF4-**13**375	MF4-**13**420	MF4-**13**500	MF4-**13**600
16 mm	MF4-**16**330	MF4-**16**375	MF4-**16**420	MF4-**16**500	--

Straumann Variobase C (Order Direct)

35 Ncm Tightening torque 800-448-8168

TiBases and ScanPosts come with 1 screw each

Bone Level	Straumann Tibase	DS Scanpost
S BL 3.3 (discontinued)*	022.0025	64 31 246 (L)
S BL 4.1 (discontinued)*	022.0024	64 31 253 (L)
NC Variobase C 3.3**	022.0043 (S)	64 31 246 (L)
RC Variobase C 4.1**	022.0044	64 31 253 (L)

*select under **Dentsply Sirona Other** in the CEREC SW

**SW 5.2.2+ compatible with inCoris ZI meso or e.max

Tissue Level	Straumann Tibase	DS Scanpost
RN Variobase C 4.1, 4.8	022.0019	64 31 170 (L)
WN Variobase C 6.5	022.0020	64 31 196 (L)

compatible with e.max only (not inCoris ZI meso)

BLX Bone Level	Straumann Tibase	Straumann Scanpost
RB/WB Variobase C 3.8	062.4981 (S)	065.0038 (L)
RB/WB Variobase C 4.5	062.4982	065.0038 (L)
WB Variobase C 5.5	062.4983	065.0038 (L)

compatible with e.max only (not inCoris ZI meso)

Scanbodies	DS Parts
Size S (36/pk)	64 31 311
Size L (36/pk)	64 31 253

Straumann Variobase C

Bone Level

CrossFit connection (4 grooves)

Andover, MA
978-747-2500

Roxolid® SLActive® Bone Level
Roxolid SLActive Bone Level Tapered
Roxolid SLA® Bone Level
Roxolid SLA® Bone Level Tapered

diameter	3.3mm	4.1mm	4.8mm
connec.	NC	RC	RC
8.0mm	021.2308	021.4308	021.6308
	021.3308	021.5308	021.7308
	021.2508	021.4508	021.6508
	021.3508	021.5508	021.7508
10mm	021.2310	021.4310	021.6310
	021.3310	021.5310	021.7310
	021.2510	021.4510	021.6510
	021.3510	021.5510	021.7510
12.0mm	021.2312	021.4312	021.6312
	021.3312	021.5312	021.7312
	021.2512	021.4512	021.6512
	021.3512	021.5512	021.7512
14.0mm	021.2314	021.4314	021.6314
	021.3314	021.5314	021.7314
	021.2514	021.4514	021.6514
	021.3514	021.5514	021.7514
16.0mm	--	--	--
	021.3316	021.5316	021.7316
	--	--	--
	021.3516	021.5516	021.7516
18.0mm	--	--	--
	021.3318	021.5318	021.7318
	--	--	--
	021.3518	021.5518	021.7518

Straumann Variobase C
Standard Tissue Level
synOcta® (hex) connection

Roxolid® SLActive® / Roxolid SLA®

diameter	**3.3mm Standard Plus**	3.3mm Standard	3.3mm Tapered Effect
connec.	RN (4.8mm)	RN (4.8mm)	RN (4.8mm)
8mm	033.511S / 043.260S	033.501S / 043.255S	033.521S / 043.264S
10mm	033.512S / 043.261S	033.502S / 043.256S	033.522S / 043.265S
12mm	033.513S / 043.262S	033.503S / 043.257S	033.523S / 043.266S
14mm	033.514S / 043.263S	033.504S / 043.258S	033.524S / 043.267S
16mm	--	033.505S / 043.259S	--

diameter	**4.1mm Standard Plus**	4.1mm Standard	4.1mm Tapered Effect
connec.	RN (4.8mm)	RN (4.8mm)	RN (4.8mm)
6mm	033.560S / 043.161S	033.530S / 043.155S	--
8mm	033.561S / 043.162S	033.531S / 043.156S	033.571S / 043.166S
10mm	033.562S / 043.163S	033.532S / 043.157S	033.572S / 043.167S
12mm	033.563S / 043.164S	033.533S / 043.158S	033.573S / 043.168S
14mm	033.564S / 043.165S	033.534S / 043.159S	033.574S / 043.169S
16mm	--	033.535S / 043.160S	--

diameter	**4.8mm Standard Plus**	4.8mm Standard
connec.	RN (4.8mm)	RN (4.8mm)
6mm	033.590S / 043.066S	033.580S / 043.061S
8mm	033.591S / 043.067S	033.581S / 043.062S
10mm	033.592S / 043.068S	033.582S / 043.063S
12mm	033.593S / 043.069S	033.583S / 043.064S
14mm	033.594S / 043.070S	033.584S / 043.065S

Roxolid® SLActive® / Roxolid SLA®

diameter	**4.8mm Standard Plus**	4.8mm Standard	4.8mm Tapered Effect
connec.	WN (6.5mm)	WN (6.5mm)	WN (6.5mm)
6mm	033.610S / 043.655S	033.600S / 043.606S	--
8mm	033.611S / 043.656S	033.601S / 043.607S	--
10mm	033.612S / 043.657S	033.602S / 043.608S	033.622S / 043.660S
12mm	033.613S / 043.658S	033.603S / 043.609S	033.623S / 043.661S
14mm	--	--	033.624S / 043.662S

Straumann Variobase C

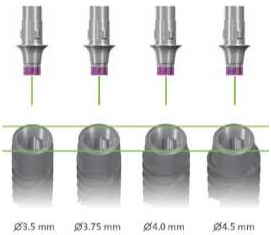
Bone Level BLX

TorcFit™ connection

Andover, MA
978-747-2500

	RB				WB		
	3.5	3.75	4.0	4.5	5.0	6.0	6.5
mm	White	Red	Gray	Green	Magenta	Brown	Black
6	--	--	--	061.6306	061.7306	061.8306	061.9306
8	061.3308	061.4308	061.5308	061.6308	061.7308	061.8308	061.9308
10	061.3310	061.4310	061.5310	061.6310	061.7310	061.8310	061.9310
12	061.3312	061.4312	061.5312	061.6312	061.7312	061.8312	061.9312
14	061.3314	061.4314	061.5314	061.6314	061.7314	--	--
16	061.3316	061.4316	061.5316	061.6316	061.7316	--	--
18	061.3318	061.4318	061.5318	061.6318	061.7318	--	--

One prosthetic range. RB/WB abutments fit on all BLX Implants. WB abutments fit only on implants with an implant diameter larger than 5.0.



RB Implants WB Implants

Thommen Medical (TM)

SPI Element, SPI Element Inicell, SPI Contact, SPI Contact Inicell

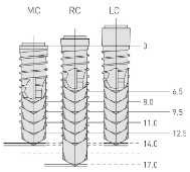
15 Ncm for 3.5 / 25 Ncm Tightening for others

TiBases and ScanPosts come with 1 screw each

TiBase	ScanPost	Scanbodies (36/pk)	Screws (2/pk)
Platform 3.5 / Implant Diameter 3.5			
65 31 854	65 44 386	64 31 311 (S)	65 61 265
Platform 4 / Implant Diameter 4			
65 32 829	65 44 394	64 31 311 (S)	65 61 273
Platform 4.5 / Implant Diameter 4.5			
65 32 837	65 44 402	64 31 311 (S)	65 61 273
Platform 5 / Implant Diameter 5			
65 44 360	65 44 410	64 31 311 (S)	65 61 273
Platform 6 / Implant Diameter 6.0			
65 44 378	65 44 428	64 31 311 (S)	65 61 273

Thommen Medical (TM)

SPI Element, SPI Element Inicell (MC, RC, LC)



4.13.9xx = SPI ELEMENT

4.23.5xx = SPI ELEMENT INICELL (MC)

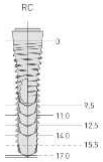
4.23.1xx = SPI ELEMENT INICELL (RC)

4.23.7xx = SPI ELEMENT INICELL (LC)

connec.	3.5	4.0	4.5	5.0	6.0
6.5 mm	--	4.13.905	4.13.906	4.13.907	4.13.908
	--	--	--	--	--
	--	4.23.121	4.23.131	4.23.141	4.23.151
	--	4.23.721	–	--	--
8 mm	4.13.900	4.13.904	4.13.901	4.13.902	4.13.903
	4.23.512	4.23.522	4.23.532	4.23.542	4.23.552
	4.23.112	4.23.122	4.23.132	4.23.142	4.23.152
	4.23.712	4.23.722	--	--	--
9.5 mm	4.13.940	4.13.914	4.13.941	4.13.942	4.13.943
	4.23.513	4.23.523	4.23.533	4.23.543	4.23.553
	4.23.113	4.23.123	4.23.133	4.23.143	4.23.153
	4.23.713	4.23.723	--	--	--
11 mm	4.13.910	4.13.924	4.13.911	4.13.912	4.13.913
	4.23.514	4.23.524	4.23.534	4.23.544	4.23.554
	4.23.114	4.23.124	4.23.134	4.23.144	4.23.154
	4.23.714	4.23.724	--	--	--
12.5 mm	4.13.950	4.13.934	4.13.951	4.13.952	4.13.953
	4.23.515	4.23.525	4.23.535	4.23.545	4.23.555
	4.23.115	4.23.125	4.23.135	4.23.145	4.23.155
	4.23.715	4.23.725	--	--	--
14 mm	4.13.920	4.13.944	4.13.921	4.13.922	--
	4.23.516	4.23.526	4.23.536	4.23.546	--
	4.23.116	4.23.126	4.23.136	4.23.146	--
	4.23.716	4.23.726	--	--	--
17 mm	4.13.930	--	4.13.931	--	--
	--	--	--	--	--
	4.23.117	--	4.23.137	--	--
	--	--	--	--	--

Thommen Medical (TM)

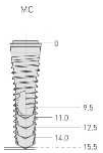
SPI Contact, SPI Contact Inicell (RC, MC)



4.13.2xx = SPI CONTACT

4.23.2xx = SPI CONTACT INICELL (RC)

connec.	3.5	4.0	4.5	5.0	6.0
9.5 mm	--	4.13.214	4.13.211	4.13.212	4.13.213
	--	4.23.223	4.23.233	4.23.243	4.23.253
11 mm	4.13.220	4.13.224	4.13.221	4.13.222	4.13.223
	4.23.214	4.23.224	4.23.234	4.23.244	4.23.254
12.5 mm	4.13.230	4.13.234	4.13.231	4.13.232	4.13.233
	4.23.215	4.23.225	4.23.235	4.23.245	4.23.255
14 mm	4.13.240	4.13.244	4.13.241	4.13.242	4.23.243
	4.23.216	4.23.226	4.23.236	4.23.246	4.23.256
17 mm	--	--	4.13.261	4.23.262	--
	--	--	4.23.237	4.23.247	--



4.23.6xx = SPI CONTACT INICELL (MC)

connec.	3.5	4.0	4.5	5.0	6.0
11 mm	--	4.23.624	4.23.634	4.23.644	4.23.654
12.5 mm	4.23.615	4.23.625	4.23.635	4.23.645	4.23.655
14 mm	4.23.616	4.23.626	4.23.636	4.23.646	4.23.656
15.5 mm	4.23.617	4.23.627	4.23.637	4.23.647	4.23.657

Dentsply Sirona Implants

Osseospeed TX / OsseSpeed TX Profile

Astra Tech Implant EV / EV Profile / DS PrimeTaper EV

Ankylos C/X

Xive S

MIS

C1 / V3 / SEVEN / M4

Biomet 3i

Certain™ / Certain Prevail™ / Certain™ XP

BioHorizons

Internal, Tapered Internal

Nobel Biocare

NobelReplace (tri-channel)

NobelActive / NobelReplace Conical C

Hiossen

Hiossen TS (Mini / Regular)

Straumann

Bone level (CrossFit®)

Zimmer

Tapered Screw-Vent

Camlog

CONELOG / Screw-Line

To order, call 800-531-3481or contact your Dentsply Sirona Implant or Lab Specialist.

Dentsply Sirona Implants: IO FLO Scanposts

OsseoSpeed / OsseoSpeed TX	Code	Ref.
3.0 (Yellow)	IO-C-01	35215
3.5, 4.0 (Aqua)	IO-C-02	35216
4.5, 5.0 (Lilac)	IO-C-03	35217
OsseoSpeed TX Profile		
4.5, 5.0	IO-C-04	35218
PrimeTaper EV		
XS 3.0 (Green)	IO-P-01	35243
S 3.6 (Purple)	IO-P-02	35244
M 4.2 (Yellow)	IO-P-03	35245
L 4.8 / 5.4 (Blue)	IO-P-04	35246
Astra Tech Implant EV		
XS 3.0 (Green)	IO-P-01	35243
S 3.6 (Purple)	IO-P-02	35244
M 4.2 (Yellow)	IO-P-03	35245
L 4.8 (Blue)	IO-P-04	35246
XL 5.4 (Brown)	IO-P-05	35247
Astra Tech Implant EV Profile		
P4.2 4.2 (Yellow)	IP-P-06	35248
P4.8 4.8 (Blue)	IP-P-07	35249
Ankylos C/X	(single use only)	
3.5, 4.5, 5.5, 7.0	IO-L-01	35235
Xive S		
D3.0 3.0 (Brown)	IO-J-01	35230
D3.4 3.4 (Gray)	IO-J-02	35231
D3.8 3.8 (Yellow)	IO-J-03	35232
D4.5 4.5 (Blue)	IO-J-04	35264
D5.5 5.5 (Red)	IO-J-05	35265

MIS: IO FLO Scanposts

C1 (Conical)	Code	Ref.
C1 NP 3.3	IO-S-02	34689
C1 SP 3.75, 4.2	IO-S-03	34690
C1 WP 5.0	IO-S-04	34694
V3 (Conical)		
V3 NP 3.3	IO-S-01	34688
V3 SP 3.9, 4.3, 5.0	IO-S-03	34690
SEVEN or M4 (Internal Hex)		
NP 3.3	IO-B-04	35273
SP 3.75, 4.2	IO-B-01	35212
WP 5.0, 6.0	IO-B-02	35213

Biomet 3i: IO FLO Scanposts

Certain	Code	Ref.
3.25, 4/3	IO-F-01	35225
4.0, 5.0, 6.0, 5/4	IO-F-02	35226
Certain Prevail		
3/4/3 (3.4), 4/3	IO-F-01	35225
4/5/4, 5/4, 5/6/5, 6/5	IO-F-02	35226
Certain XP		
4/5, 5/6	IO-F-02	35226

BioHorizons: IO FLO Scanposts

Internal		
Tapered Internal 3.5	IO-B-01	35212
Tapered Internal 4.5	IO-B-02	35213
Tapered Internal 5.7	IO-B-03	35214

Nobel Biocare: IO FLO Scanposts

NobelActive / NobelActive Conical Connection		
3.0	IO-K-03	35266
NP 3.5	IO-K-01	35233
RP 4.3 / 5.0	IO-K-02	35234
WP 5.5	IO-K-04	35272
NobelReplace (Tri-channel Connection)		
NP 3.5	IO-D-01	35219
RP 4.3	IO-D-02	35220
WP 5.0	IO-D-03	35221
WP 6.0	IO-D-04	35222

Hiossen: IO FLO Scanposts

Osstem TS	Code	Ref.
Mini 3.5	IO-R-01	35270
Regular 4.0, 4.5, 5.0, 6.0, 7.0	IO-R-02	35271

Straumann: IO FLO Scanposts

Bone Level		
3.3 NC	IO-H-01	35228
4.1 RC / 4.8 RC	IO-H-02	35229

Zimmer: IO FLO Scanposts

Screw-Vent / Screw-Vent friction fit		
3.3, 3.7	IO-B-01	35212
4.5	IO-B-02	35213

Tapered Screw-Vent / Tapered Screw-Vent friction fit		
3.5	IO-B-01	35212
4.5	IO-B-02	35213
5.7	IO-B-03	35214

Camlog: IO FLO Scanposts

CONELOG		
3.3	IO-Q-01	35267
3.8 / 4.3	IO-Q-02	35268
5.0	IO-Q-03	35269

Screw-line Implant		
3.3	IO-N-01	35239

Screw-line / Root-line Implant		
3.8	IO-N-02	35240
4.3	IO-N-03	35241
5.0 / 6.0	IO-N-04	35242

Implant Level Dentsply Sirona Implants: IO FLO-S

Astra Tech Implant System TX	Code	Reference
OsseoSpeed TX 3.0 (Yellow)	A04C	680 20 023
OsseoSpeed TX 3.5, 4.0 (Aqua)	A04D	680 20 024
OsseoSpeed TX 4.5, 5.0 (Lilac)	A04E	680 20 025
PrimeTaper EV Connection		
XS EV (3.0) Green	A04K	680 20 018
S EV (3.6) Purple	A04L	680 20 019
M EV (4.2) Yellow	A04M	680 20 020
L EV (4.8 & 5.4) Blue	A04N	680 20 021
EV Connection		
XS EV (3.0) Green	A04K	680 20 018
S EV (3.6) Purple	A04L	680 20 019
M EV (4.2) Yellow	A04M	680 20 020
L EV (4.8) Blue	A04N	680 20 021
XL EV (5.4) Brown	A04O	680 20 022
Astra Tech Implant EV Profile		
4.2 EV Profile (Yellow)	A04M	680 20 020
4.8 EV Profile (Blue)	A04N	680 20 021
Xive / Frialit		
Xive S 3.0	F01A	680 20 026
Xive S 3.4 / Frialit 3.4	F01B	680 20 027
Xive S 3.8 / Frialit 3.8	F01C	680 20 028
Xive S 4.5 / Frialit 4.5	F01D	680 20 029
Xive S 5.5 / Frialit 5.5	F01E	680 20 030

(Note: Abutment Level implants on next page)

To place an order, please call 800-531-3481, option 3

Abutment Level Dentsply Sirona Implants: IO FLO-S

EV Connection (Astra Tech or PrimeTaper)		
Uni Abutment EV	A04F	680 20 031
MultiBase Abutment EV	A04S	680 20 034
Astra Tech Implant System TX		
20° UniAbutment	A04A	680 20 032
45° UniAbutment	A04B	680 20 033
Ankylos Balance Base		
Narrow D4.2	A03A	680 20 035

To place an order, please call 800-531-3481, option 3

Part Numbers

Equipment Catalog

Blocks, Guides, & Burs

Primeprint & PPU

Dentsply Sirona Cements

Other Helpful Accessories

Prep Aids

Sprue Removal & Spray Glaze

Paint-on Stain & Glaze

Service Parts

Contact Your Dealer Representative

Primescan Connect $24,995 MSRP
67 95 491 (Laptop included)
Flex Cart $995 MSRP
68 06 082
Drawing

Primescan AC $44,995 MSRP
66 92 714 (2.1–5.0A)

SW 5.2 + Pro Module $34,995 MSRP
67 72 771 (SW upgrade to full system)

CEREC Primescan AC $69,995 MSRP
66 67 211 (2.1–5.0A)

CEREC Primemill $79,995 MSRP
67 26 561 (2.1–4.2A)

CEREC MC X $63,995 MSRP
64 28 481 (1.5–3.5A)

Suction Unit $1,473 MSRP
65 80 786 (6.4A)

CEREC SpeedFire $12,495 MSRP
64 82 850 (12.5A)

Primeprint Solution* $29,700 MSRP
68 02 446 (PP 2.0A; PPU 3.4A)

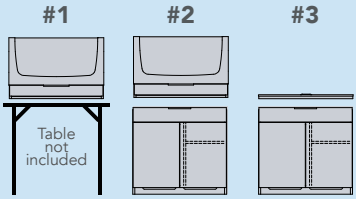
Countertop Needed Drawing

What Doctor Provides List

Speed / # of Units Chart

Units per Cartridge Chart

*Active print area: 1920 x 1080 (70µ pixel)



Photo

Measurements

Kappler Primemill Cabinets

Option 1 $5,110 MSRP

1000 08 549	Station Table Top 2020	$5,110

Option 2 $7,708 MSRP

1000 08 549	Station Table Top 2020	$5,110
1000 08 545	Station Base 2020	$2,325
1000 08 550*	Caster Set	$273

Option 3 $3,173 MSRP

1000 08 546	Station Counter Top	$575
1000 08 545	Station Base 2020	$2,325
1000 08 550*	Caster set	$273

**Optional add-on*

Blue License Drive $135 MSRP
67 21 703

Details

Design Center PC $5,961 MSRP
Comes with CEREC SW license.
65 43 560*

inLab PC $3,995 MSRP
100 005 929*

Details

*Monitor (60 42 548, $523), keyboard, mouse, and power cord not included. Blue license drive sold separately (note: one comes with the Primeprint). PC must be hardwired to network.

Glass Ceramic Blocks

CEREC Tessera & Accessories

Celtra Duo & Accessories

Blocs C (feldspathic monolithic)

Blocs C PC (polychromatic)

Zirconia Blocks

CEREC Zirconia+ & Accessories

inCoris ZI meso (abutment)

CEREC MTL Zirconia & DS Kits

Surgical Guides

CEREC Guide Blocs, CG3 Sleeves

CEREC Guide 2 Keys

Burs

CEREC Primemill

CEREC MC X / MC XL

Click to go to block details

CEREC Tessera™ 4/box, $141.60

HT, Size 14

A1	536 543 1205
A2	536 543 1215
A3	536 543 1225
A3.5	536 543 1235
B1	536 543 1255
C1	536 543 1295
D2	536 543 1335

MT, Size 14

A1	536 543 1505
A2	536 543 1515
A3	536 543 1525
A3.5	536 543 1535
B1	536 543 1555
B3	536 543 1575
C1	536 543 1595
C3	536 543 1615
D2	536 543 1635

MT/LT, Size 14

BL2	536 543 1675

Starter Kit $415.20 Parts

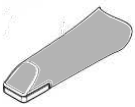
536 543 0113

DS Celtra Ceram Demo

Add-on Correction Porcelain, $44 MSRP

15 g 61 54 04

Not available through dealers. To order, call 800-243-1942 (Option 3,1).



Primescan Disposable Sleeves (50 ct.)
not used with shade matching
66 86 880 $208 MSRP

For CEREC Tessera

Meisinger To remove from block
Blue-striped HP diamond
5/pk 863-016-HP

DS Round Firing Pads $15 MSRP
3/pk 536 590 1212

DS Mini Honeycomb Trays $52.10
2/pk 536 549 0110

DS Investment pins $25.90
536 549 0111

DS Moldable Silicone $13.60
2/pk 536 549 0112

DS Universal Spray Glaze $88.50
w/Fluo 536 827 3100
no Fluo 536 827 3101

Click to go to block details

Celtra Duo (ZLS)

HT, Size 14, 4/box, $151.60 MSRP

A1	536 541 1205
A2	536 541 1215
A3	536 541 1225
B1	536 541 1255
C1	536 541 1295
C2	536 541 1305
D2	536 541 1335
D3	536 541 1345

LT, Size 14, 4 box

BL2	536 541 1175
BL3	536 541 1185
A1	536 541 1005
A2	536 541 1015
A3	536 541 1025
A3.5	536 541 1035
B1	536 541 1055
B2	536 541 1065
C1	536 541 1095
C2	536 541 1105
D2	536 541 1135
D3	536 541 1145

Celtra Duo Correction Porcelain
15 g 60 12 29 $35.46 MSRP

Dentsply Sirona Firing Pads, 3/pk
536 590 1212 $15 MSRP

For Celtra Duo, Blocs C, Zirconia

Meisinger Universal Polisher wheels
220 mm, use first to prep for polish
10/pk 9617V-220-UNM-WH
Kerr Mandrel HP
6/pk 305-050

Diashine Polishing Paste 3 g
F (yellow) F3G or DSF3G
FS (pink) FS3G

DiaSheen Kerr Polishing Paste 3 g
Fine (yellow) PP-FINE
Fine Soft (pink) PP-FINESOFT

Robinson Bristle Stiff, Size #12
12/pk 06161 or 06162
Keystone Goat Hair Chamois
12/pk 1670051
Meisinger Goat Hair Brush
5/pk 100-220-HP

Meisinger disc 26 mm HP (1/pk)
Blue 9770M-260-HP-BL/O
Red 9770F-260-HP-R/O
Yellow 9770C-260-HP-Y/O

Meisinger Twist Polishers (2/pk)
Run at 8,000-10,000 RPM (soft touch)
Blue 9771M-170-HP
Red 9771F-170-HP
Yellow 9771C-170-HP

Meisinger points RA (2/pk)
Blue 9743M-040-RA-BL/O
Red 9743F-040-RA-R/O
Yellow 9743C-040-RA-Y/O

Click to go to block details

CEREC Blocs C 8/box, $163 MSRP
Monochromatic feldspathic ceramic

Size 10	
BL2	64 84 542
A1	64 84 427
A2	54 84 435
A3	64 84 443
A3.5	64 84 450
A4	64 84 591
B2	64 84 617
B3	64 84 625
C2	64 84 633
C3	64 84 641
D3	64 84 658
Size 12	
BL2	64 84 666
A1	64 84 468
A2	64 84 476
A3	64 84 484
A3.5	64 84 492
A4	64 84 716
B2	64 84 724
B3	64 84 732
C2	64 84 740
C3	64 84 757
D3	64 84 765
Size 14	
BL2	64 84 773
A1	64 84 500
A2	64 84 518
A3	64 84 526
A3.5	64 84 534
A4	64 84 781
B2	64 84 831
B3	64 84 849
C2	64 84 856
C3	64 84 864
D3	64 84 872

Click to go to block details

CEREC Blocs C PC 8/box, $194
Polychromatic feldspathic ceramic with three different saturation levels (chroma).

Size 12

A1	64 84 559
A2	64 84 567
A3	64 84 575
A3.5	64 84 583

Size 14

A1	64 84 674
A2	64 84 682
A3	64 84 690
A3.5	64 84 708

Size 14/14

A1	64 84 799
A2	64 84 807
A3	64 84 815
A3.5	64 84 823

Click to go to block details

CEREC Zirconia+

mono L (crown), 3/box, $84.30

A1	536 544 0001
A2	536 544 0002
A3	536 544 0003
A3.5	536 544 0004
A4	536 544 0005
B2	536 544 0007
B3	536 544 0008
C2	536 544 0011
C3	536 544 0012
D3	536 544 0015

medi S (bridge), 3/box, $135.40

A1	536 544 0021
A2	536 544 0022
A3	536 544 0023
A3.5	536 544 0024
A4	536 544 0025
B2	536 544 0027
B3	536 544 0028
C2	536 544 0031
C3	536 544 0032
D3	536 544 0035

CEREC SpeedPaste (1/ea) $28

Used with the white glaze support pin when glazing zirconia

12cc 65 80 067

Glaze Support Pins

Used with CEREC SpeedPaste when glazing zirconia

Crown 66 11 870 (1/pk) $24

Bridge 65 83 889 (2/pk) $39

For Zirconia

Meisinger Remove zirc from block
Blue-striped HP diamond
5/pk 863-016-HP

Meisinger Remove zirc from block
Red fine tungsten carbide
2/pk HM488FX-016-HP

Meisinger Remove zirc from block
Red fine tungsten carbide
1/pk HM489FX-023-HP

Keystone Industries Scotch-Brite
Zirc. polisher (run at < 5K RPM)
12/pk 1670092 Med/Black
12/pk 1670091 Fine/Red

Filter Bag $17
(2/pk) 65 78 095

HEPA Filter $129
(1/pk) 63 85 277 $137 MSRP

DS Universal Spray Glaze $88.50
w/Fluo 536 827 3100
no Fluo 536 827 3101

Click to go to block details

inCoris ZI meso (1/box)
Discontinued Aug 2022
3Y high-strength zirconia
for cement-retained abutments

F0.5 (S)	62 31 802
F2 (S)	62 31 828
F0.5 (L)	62 31 810
F2 (L)	62 31 836

F0.5 F2

VITA YZ HT Infiltration Liquids 50 mL

A1	EZ0CY3650
A2	EZ0CY3750
A3	EZ0CY3850
A3.5	EZ0CY3950
Stabilizer	EZ0CY8350
20 mL	
Chroma A	EZ0CY7720
Grey	EZ0CY7520
Blue	EZ0CY7620
10 mL	
Indicator	EZ0CY8110

Click to go to block details

CEREC MTL Zirconia

Mono (crowns), 4/box, $126.10

A1	536 545 0001
A2	536 545 0002
A3	536 545 0003
A3.5	536 545 0004
B2	536 545 0007
C2	536 545 0011
D2	536 545 0014

Medi (bridges), 2/box, $168.20

A1	536 545 0021
A2	536 545 0022
A3	536 545 0023
A3.5	536 545 0024
B2	536 545 0027
C2	536 545 0031
D2	536 545 0034

CEREC SpeedPaste (1/ct) $28

Used with the white glaze support pin when glazing zirconia

12cc 65 80 067

Glaze Support Pins

Used with CEREC SpeedPaste when glazing zirconia

Crown 66 11 870 (1/pk) $24

Bridge 65 83 889 (2/pk) $39

Meisinger Kits for Dentsply Sirona

Extraoral $495.00 Parts

Universal Shaping & Polishing DSU21

Intraoral $112.20 Parts

Ceramic Finishing Kit DSG21

Zirconia Finishing Kit DSZ21

For CEREC Guide 2 & 3

Click to go to block details

CEREC Guide Bloc (1/pk) $67 MSRP
For Primemill and MC X only
medi 64 66 564

For MC XL only
maxi 64 47 093

CEREC Guide 3 Sleeves

5 sleeves (tubes) and 1 holding pin

Ankylos ND / XiVE ND $70 MSRP
Ankylos A, XiVE 3.0, 3.4, 3.8
66 69 563

Ankylos WD $70 MSRP
Ankylos B
66 69 571

Astra Tech EV ND $70 MSRP
Astra Tech EV 3.6 (straight)
Astra Tech EV 4.2 (straight, conical, profile straight, profile conical)
DS PrimeTaper EV S (3.6), M (4.2)
66 69 589

Astra Tech EV WD / XiVE WD $70
Astra Tech EV 4.8 (straight, conical, profile straight, profile conical)
DS PrimeTaper EV L (4.8)
XiVE 4.5
66 69 597

Expand

CEREC Guide 2
Full Drill Key Sets & Pilot Drills

Inner Diameter (mm)	S ≤3.5	M ≤4.3	L ≤5.0
Nobel (NB)			
2.0–5.0 (25 keys)	5	9	11
2.0 only (3 keys)	1	1	1
Astra (AT)			
2.0–4.85 (17 keys)	3	6	8
2.0 only (3 keys)	1	1	1
Biomet 3i (B)			
2.00–4.25 (16 keys)	4	6	6
2.0 only (3 keys)	1	1	1
Straumann (ST)			
2.2–4.2 (11 keys)	3	4	4
2.2 only (3 keys)	1	1	1

NobelBiocare $3,053 / $361 MSRP
(not Replace Select Tapered)
Set NB (25 keys) 63 73 943
2.0 Pilot (3 keys) 64 62 530

Astra Tech Facilitate $1,975 / $361
(OsseoSpeed, not EV)
DS PrimeTaper EV 3.6 and 4.2
Set AT (17 keys) 63 73 950
2.0 Pilot (3 keys) 64 62 530

Biomet 3i Navigator $2,154 / $361
(Parallel-walled only)
Set B (16 keys) 63 73 968
2.0 Pilot (3 keys) 64 62 530

Straumann $1,570 / $361 MSRP
Set ST (11 keys) 63 73 711
2.2 Pilot (3 keys) 64 62 563

For CEREC Primemill

Diamond Burs (6/pk) $269 MSRP
Diamond 1.4 CS (Left, Standard)
67 14 088

Diamond 1.2 CS (Right, Standard)
67 14 070

Diamond 1.0 CS (EF grinding)*
67 14 062

Diamond 0.6 CS (EF grinding)*
67 14 054

*Primemill Starter Kits SN≥ 652401

Carbide Burs (3/pk) $297 MSRP
Bur 2.5 ZrO2 CS (Dry Zirc)**
67 13 940

Bur 1.0 CS (Standard)
67 13 932

Bur 0.5 CS (EF milling)
67 13 924

Bur 2.5 PMMA
67 37 469 $328 MSRP

**Improved batch: ≥ H203003. Also in Primemill Starter Kits SN≥ 650929

Dentatec Oil (1000 mL) $93
58 09 640

Top-load water filter (1/pk) $29
63 87 067

66 31 191 MC Care Liquid (250 mL) $58

Workflow

For MC X, MC XL

Diamond Burs (6/pk) $227 MSRP

12 S Step (1.35 mm dia.)
62 40 167

12 S Cylinder Pointed
62 40 159

12 Step (0.95 mm dia.)
62 60 025

12 EF Cylinder
65 35 186

12 EF Pointed
65 35 178

Diamond Burs (6/pk) $284 MSRP

20 Step Bur
62 59 597

20 Pointed Cyl.
62 59 589

Carbides Burs (3/pk) $227 MSRP

Finisher 10
62 99 387

Shaper 25 (dry mill)
62 99 395

Shaper 25 RZ (wet mill)
64 33 440

Dentatec Oil (1000 mL) $93
58 09 640

Top Load Water Filter (1/pk) $29
63 87 067

Side Load Water Filter (1/pk) $28
61 29 519

Primeprint Consumables

Details

Primeprint Basic Resins $299 MSRP

1000 g		MPa 3-Point
67 40 257	Model	>70
67 40 224	Model T	>195
67 40 216	Tray	>90
67 40 265	Cast	>70

Primeprint Adv. Resins $699 MSRP

67 40 232	Guide	>75
67 40 240	Splint	>80
67 40 281	Temp A1*	>100
67 40 299	Temp A2*	>100
67 40 307	Temp A3*	>100

**Suggestion: Air abrade intaglio and use DS TempGrip Cement*

67 44 903 Material Unit $599

67 54 241 Sponge Inserts (5/pk) $29

67 53 631 Wiper (Playing) Cards $15

67 44 911 Foil w/ Clamp Frame $199

67 44 895 Primeprint Box $299

See next page

Primeprint (continued)

67 82 481 Purosol Optics Cleaner $35
68 02 917 Multi-Use Microfiber Cloth $12

67 47 823 Activated Carbon Filter $99

67 57 434 Collecting Container $19
450 mL

Primeprint PPU

67 45 546 Washing Container $199

67 45 603 Activated Carbon Filter $229

67 52 138 Ozone Filter $159

67 56 295 Curing Light Filter $12

67 58 663 Side Cutter $17

67 58 655 Spatula/Scraper $20

67 45 074 Indiv. Exposure Carrier $399

Dentsply Sirona Resin Cements

Workflow

Calibra Ceram Adhesive Resin Cement (1 syringe, 4.5 g)
For use with Celtra Duo

Combo	60 71 00	$243.80
Light	60 71 91	$111.40
Med.	60 71 92	$111.40
Trans.	60 71 94	$111.40
Opaque	60 71 95	$111.40
Bleach	60 71 96	$111.40

Prime&Bond elect Universal Dental Adhesive - Light Cure
5 mL bottle, $196.40
63 46 01
50 unidose, $212.80
63 46 04
Self-cure Activator 4.5 mL, $247
63 43 54

Caulk 34% Tooth Conditioner Gel
Phosphoric Acid (2 syringes, 3 mL ea)
6 mL 64 61 25 $69.60

Calibra Silane Coupling Agent (1 syringe, 25 Applicators) $69.70
3 mL 60 70 80

Ivoclar 5% HF Acid Etch
5 mL #531548

VITA 5% HF Acid Etch
6 mL #FCE6

PULPDENT 9.6% HF 4x1.2 mL (yellow)
4.8 mL #PEG

See next page

Dentsply Sirona Cements

Calibra Veneer Esthetic Resin Cement (1 syringes, 2 g) $86.90

Workflow

Light 60 72 01
Med. 60 72 02
Trans. 60 72 04
Opaque 60 72 05
Bleach 60 72 06

Calibra Veneer Try-in Paste (2 syringes, 1.8 g ea) $91.30

Light 60 73 01
Med. 60 73 02
Trans. 60 73 04
Opaque 60 73 05
Bleach 60 73 06

Calibra Universal Self-Adhesive Resin Cement (2 syringes, 4.5 g ea) For use with Zirconia, $182.80

Workflow

Light 60 74 02
Med. 60 74 03
Trans. 60 74 05
Opaque 60 74 06
Bleach 60 74 07

Calibra Bio Bioceramic Luting Cement (each capsule contains 334 mg powder and 196 mg liquid) For use with Zirconia

7 Capsules + Extruder 2, $111.90
60 76 01

14 Capsules, $121.50
60 76 04

Kerr Single-use Clearance Tabs (30/pk)

Pink 1.0	004-006
Green 1.5	004-007
Blue 2.0	004-008

Meisinger Reduction Burs (5/pk)

White 1.0	828W-017-FG
Green 1.5	828G-017-FG
Yellow 2.0	828Y-017-FG

Demo

ContacEZ PrepSure Guides (1/pk)

Yellow	1.0
Red	1.5
Blue	2.0

www

Demo

Hemoban Gel, 25% Aluminum Chloride Hemostatic Solution
(1 syringe, 20 tips/empty mini syringes)
30 mL 67 51 10 62.50 MSRP

Demo

Sprue Removal & Spray Glaze

Meisinger Remove zirc or Tessera from block: Blue-striped HP diamond
5/pk 863-016-HP

488 489

Meisinger Remove zirc from block Red fine tungsten carbide
2/pk HM488FX-016-HP
1/pk HM489FX-023-HP

Keystone Industries Scotch-Brite Med. zirc. polisher (run at < 5K RPM)
12/pk 1670092 Med/Black
12/pk 1670091 Fine/Red

Meisinger Heatless Taper, HP (2/pk) #9734G-040-HP-P (Med. 4mm)
Meisinger Heatless Wheel, HP (2/pk) #9736G-150-HP-P (Med. 15mm)

For Non-SpeedFire Ovens
Keystone "Honeycomb" Tray 1680050
Ivoclar "Honeycomb" Tray 598642

DS Universal Spray Glaze $88.50
w/Fluo 536 827 3100
no Fluo 536 827 3101

Paint-on Glaze and Stains

Dentsply Sirona Univ. Overglaze 5 g

Standard	60 55 40	$52.70 MSRP
High Flu	60 55 42	

Dentsply Sirona Universal Stain 5 g

Body S0	60 55 20	$52.70 MSRP
Body S1	60 55 21	
Body S2	60 55 22	
Body S3	60 55 23	
Body S4	60 55 24	
Incisal i1	60 55 31	
Incisal i2	60 55 32	
White	60 55 00C	
Crème	60 55 01	
Sunset	60 55 02C	
Copper	60 55 03C	
Khaki	60 55 04	
Olive	60 55 05C	
Mahogany	60 55 06	
Violet	60 55 07	
Raspberry	60 55 08	
Purple	60 55 09	
Grey	60 55 10	
Chestnut	60 55 11	
Blue	60 55 12	
Pink	60 55 13	

Stain/Glaze Liquid

15 mL	60 13 15	$19.70 MSRP
50 mL	60 13 50	$32.90 MSRP

Renfert Jacket-grip Tweezers
11050300

Keystone Tweezer-type Crown Holder
1620045

Service Parts

Contact Your Dealer Representative

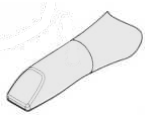
- CEREC Primescan
- CEREC Primemill
- Suction Unit & SpeedFire
- Primeprint & PPU
- CEREC Omnicam
- CEREC MC X / MC XL

For CEREC Primescan

66 70 413 Color-Calibration Set $61

66 95 170 Calibration Set $442

66 80 974 Sealing Ring (5 pcs) $12



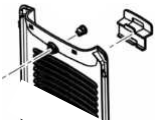
66 93 522 Metal Sapphire Sleeve $2264
66 80 966 Plas. Protec. Sleeve (3pcs) $31

See disposable sleeves

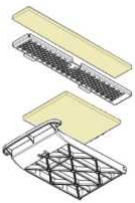
65 04 364 Cleaning Swabs $5.46

67 21 703 Blue License Dongle $135

The dealers orders this through their own equipment department (not their parts department)



66 76 550 Lock Screw for Hatch $36
66 76 568 Power Cable Holder $36



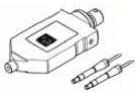
66 76 576 Filter Pad Set $38
(Shown in yellow)

For CEREC Primemill

67 65 577 Top filter water tank $305
with anti-slip pads
67 66 286 Anti-slip pads $43

64 29 950 Top-load water filter $99
Bulk Pack (Qty 6)

66 23 792 Inner sleeve $47



67 18 444 Calib. paddle & pins $554
67 32 528 Two calibration pins $392

67 18 410 Torx10 black screwdriver $152
67 11 340 Blade only (no handle) $24
replace every 400 blocks

64 79 856 Bur wrench $200
for Bur 2.5 ZrO2 CS
and Bur 2.5 PMMA CS

64 79 849 Bur wrench $144
for all other burs

62 58 987 Ball pressure screw $74
replace every 200 blocks (5pk)

66 32 124 Primemill Set Screw $37
(1pk)

For the Suction Unit

70 47 202 Red/blue rubber O ring $1.09

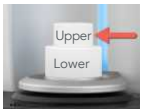
See Suction Bags & HEPA Filter

62 76 930 Blue hose clip (1/pk) $11

67 21 307 Y value w/ brush tip $344

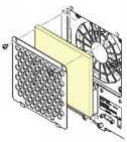
65 89 795 Pointed-tip hose $47

For the SpeedFire Oven



65 81 768 Upper Insulation $73
65 81 750 Lower Insulation $73
65 82 881 Locking Pin $37

65 81 636 SpeedFire Coolant $91
The service technician calls Dentsply Sirona to get a ticket number required to place the order (500 mL)

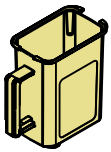


65 81 909 Back Filter Mat $4.37
(Shown in yellow)

Primeprint

65 06 815 Torx10 1.3 Nm screwdriver $120 MSRP

67 57 483 Build Platform (spare) $383
Print area (mm): 134 x 76 (150 tall)
Print area (in.) 5.25 x 3 (5.9 tall)



67 44 887 Transportation Container (spare) $86

68 10 126 Glass Pane

67 57 475 Recoater $75 MSRP (inside Material Unit)

Primeprint PPU

67 56 402 Platform Holder $83 MSRP

67 56 386 Washing Container Float $18 MSRP

67 56 394 Washing Container Stirrer $16 MSRP

67 56 246 PPU Drip Tray $69 MSRP

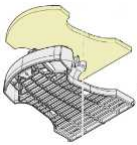
For CEREC Omnicam

66 30 714 Color Calibration Set $78

63 99 146 Calibration Set $399 MSRP

60 39 155 CD-ROM Door Latch $4.81

63 99 179 Lower Air Filter $14
(Shown in yellow)



62 37 171 Footswitch Air Filter $19
(Shown in yellow)

CEREC MC XL PL, MC XL, MC X

High Gloss (To match the Primescan skins)

67 09 302 Top filter tank (MC/MC X) $174

67 09 344 Dual filter (MC XL PL) $371

Traffic White (Original Omnicam skins)

64 22 336 Top filter tank (MC/MC X) $333

63 91 895 Dual filter (MC XL PL) $389

62 80 171 Water Tank Wrench $7.64

See next page

Cleaning Set $16 MSRP
63 05 614 For manual block clamp

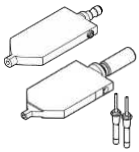
Upper Sieve (Milling Chamber) $25
66 45 886 for CEREC Guide debris
included with MC X > 239987, MC XL > 310397

64 79 856 Bur wrench $200 MSRP
for Shaper 25 / 25RZ

64 79 849 Bur wrench $144 MSRP
for all other burs

63 07 354 Torx10 screwdriver $169

62 75 049 Torx10 yellow screwdriver
$24 MSRP



Calibration Set (Paddle + Pins)
64 34 497 MC / MC X $353 MSRP
62 63 136 MC XL $305 MSRP
62 41 132 Pin (1ea) $52 MSRP

62 58 987 Ball pressure (5pk) $74
replace every 200 blocks

62 35 126 Set screw (1/pk) $7.64
for MC, MC X only

Appendix

Close X

Video List

DS CORE

- Setting Up a DS Core Account
- DS System Monitor
- What Is Fast Service Clarification?
- What Is Hybrid Workflow Setup?
- How To Connect Your Primeprint
- How To Connect Sidexis 4

DS CORE CREATE

- Design and Planning Service

DS CORE CARE

- How to Order DS Core Care

DS CORE

Video List

DS Core is a cloud-based platform that enables regulatory compliant storage and GDPR/ HIPAA-compliant file sharing.

Supported Formats

Close X

Skip DS Core plan selection

If you choose to configure later, you can start using DS Core with the following features for 3 months:

- automatically upload X-ray and DI files (up to 1 TB)
- view, combine, and annotate X-ray and DI files
- securely share files with other dentists, patients and labs
- access your files from anywhere at anytime
- order DS Core Care for your recently purchased equipment
- order from your preferred labs and from DS Core Create
- connect your Dentsply Sirona equipment with your account

Please note, if you don't select a subscription plan by the end of this period, your cloud storage will be automatically cleared, but you will still be able to

- upload files that you want to use for orders
- receive and view media files from other dentists and lab
- order indications from your preferred labs and from DS Core Create

Close X

Supported Upload Formats

3rd party DI file-types:

.stl (stereolithography)
.ply (polygon file)
.obj (object file)
.3oxz (3Shape, Order Exchange Format)
.xorder2 (DentalWings/Lava)
.exo (Exocad)

Radiographs and 3D volumes:

.dcm (single and multilayer DICOM)

inLab CAM formats:

.cam
.blc

2D images:

jpeg/.jpg
.bmp
.png
.tiff/tif

Video formats:

.avi
.mov
.mp4

Compressed folders

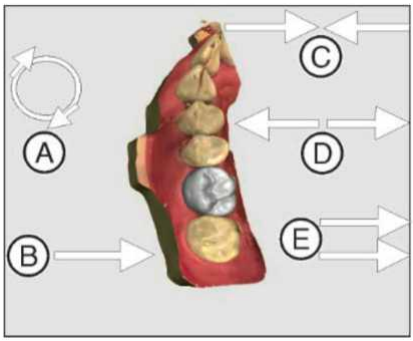
.zip (zipped)

Front Back

Tap a red circle to learn more:

Close X

Touchscreen gestures



Spin and Flip:

A: Spin the model in one plane using 2 fingers.

B: Flip the model in any plane using 1 finger.

Zoom in and out:

C: Zoom in by pinching your fingers together.

D: Zoom out by spreading them apart.

Drag

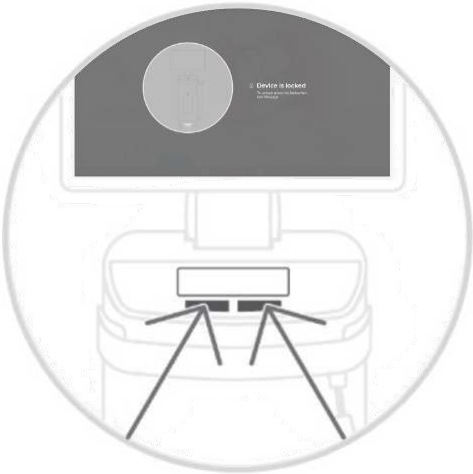
E: Drag the model to a different area of the screen using 2 fingers.

Front Back

Tap a red circle to learn more:

Close X

Lock the screen



To clean the monitor, press simultaneously on the left and right trackpad buttons for approximately one second.

The screen will turn dark and show “device is locked.”

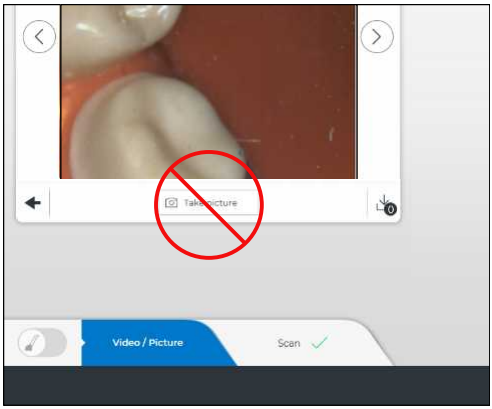
Use the foot switch (C) to unlock.

Front Back

Tap a red circle to learn more:

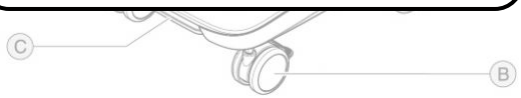
Close X

Foot switch



Video/Photo: Instead of tapping the capture button on the screen, you can use the foot switch.

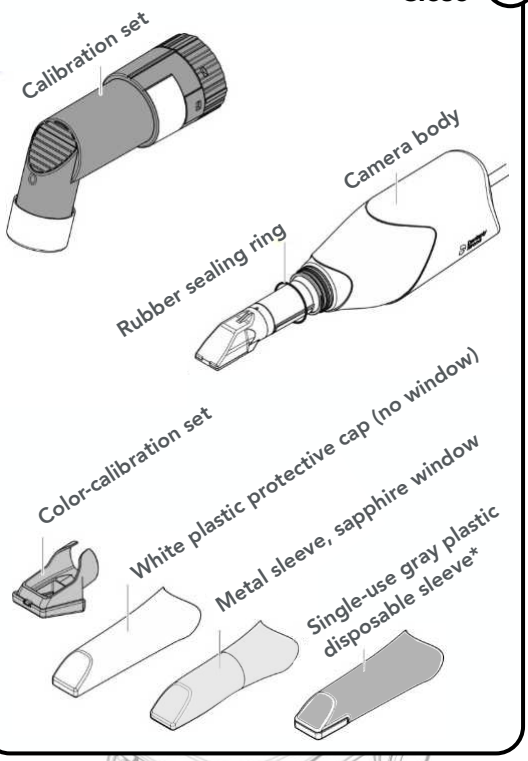
Scan: In this tab, as soon as the camera is within 2–20 mm of the surface, it begins building a 3D model. You can control when this happens by pressing up on the foot switch and holding it. After the camera is in position, release the foot switch to begin scanning.

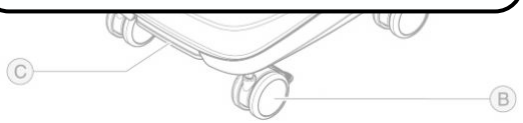


Front Back

Tap a red circle to learn more:

Close X





*Sold separately. Do not use to color calibrate.

Front Back

Tap a red circle to learn more:

Close X

On button

No light — Either the power cord is not plugged in (you can start up using battery power) or the master switch is off. **Always leave the master switch on or the battery won't charge.**

The scanner is ready to start up. Master switch is on and the power cord is plugged in to the wall.

The power cord is plugged in and the scanner is starting up or running.

The power cord is not plugged in, but the scanner is starting up or running on battery power.

Possible issue. Before calling support, make sure the main power switch is ON and the power cable is fully plugged in.

When the system is running on only the battery (power cord not plugged in), the light will flash orange when the charge falls below 90%.

After plugging the power cord back in, the system will charge the battery (flashing blue or green light) until it reaches 90%, and then will stay solid until fully charged.

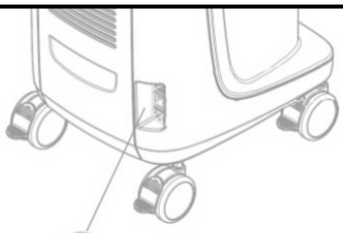
Front Back

Tap a red circle to learn more:

Close X

Power cord holder

The holder helps keep the cord away from the wheels when moving the scanner backwards in the operatory. Click here to see how to attach it.



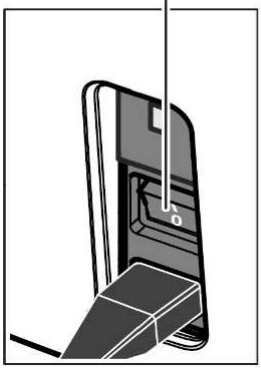
A Fuses
B Main switch
C Power connection

Front Back

Tap a red circle to learn more:

Close X

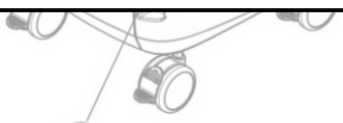
B Up: On (I)
Down: Off (0)



If the main switch is turned OFF, the battery won't charge and the computer will only run as long as the battery lasts.

Therefore, make sure the the main switch is always ON and the power cord is plugged in fully to a working outlet.

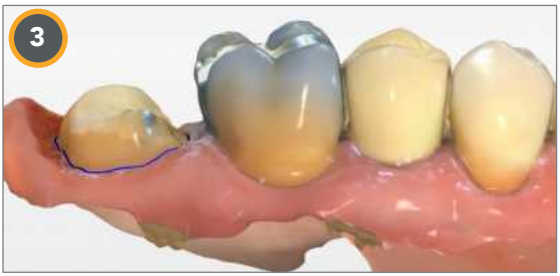
Main switch



A Fuses
B Main switch
C Power connection

DR BOB CONTE Warwick, RI

CEREC User Since 2006

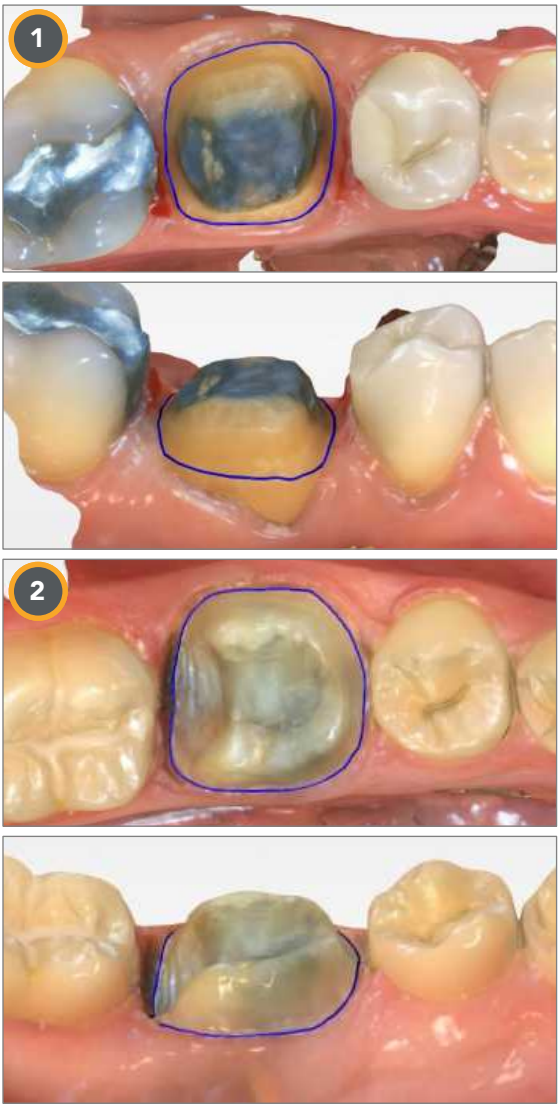


DR BOB CONTE Warwick, RI

CEREC User Since 2006

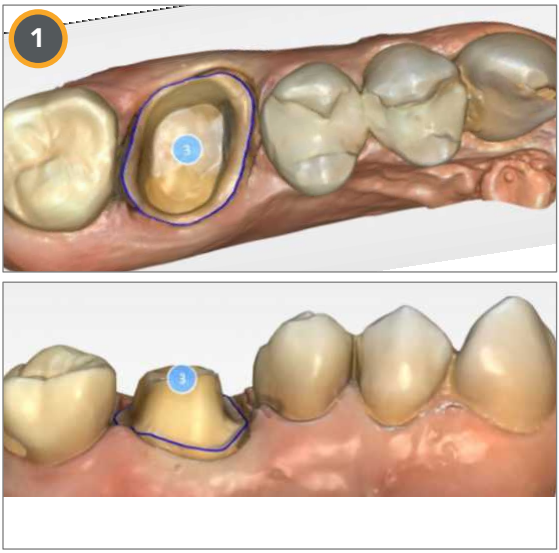
DR BOB CONTE Warwick, RI

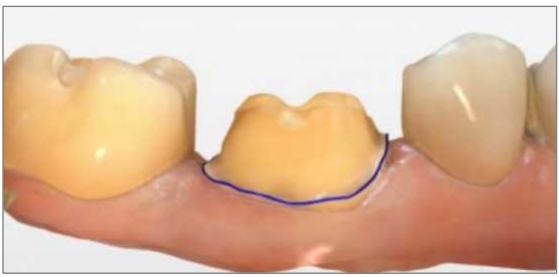
CEREC User Since 2006



DR ANDREW HALL Colorado Springs, CO

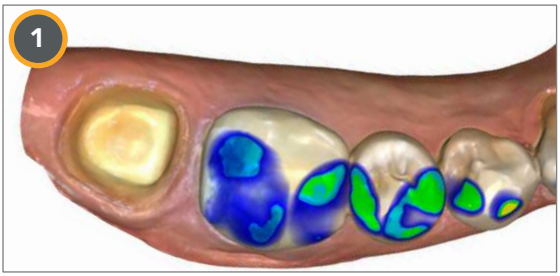
CEREC User Since 2005

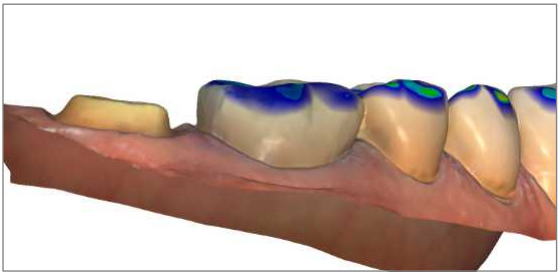




DR JAKE SKOWRONSKI Mooresville, NC

CEREC User Since 2017





DR AARON TINKLE Portland, OR

CEREC User Since 2012

B) Fire for greater strength (370 MPa).

Close X

DSU21 Universal Extraoral Kit Refills

Back row (L to R)

936SC-200-HP	EF sintered diamond disc (1/pk)
9752G-170-HP-GR/O	Green/orange coarse wheel (1/pk)
9771G-170-HP	Green coarse twist polisher (2/pk)
9771F-170-HP	Red fine twist polisher (2/pk)
DCA06-170-HP-BL/O	Blue/orange polisher wheel (1/pk)
9617V-220-UNM-WH	Universal polisher wheel (10/pk)
303RF-050-HP	Mandrel (5/pk)

Middle row (L or R)

850F-025-HP	2.5 fine round taper diamond (5/pk)
DCA04-040-HP	Blue/orange med. flame (2/pk)
DCA10-040-HP	Beige brown/orange flame (2/pk)

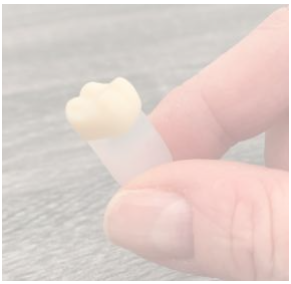
Front row (L to R)

9681P-220-UNM-BL	Precious metals / acrylic wheel (10/pk)
303RF-050-HP	Mandrel (5/pk)
9736G-150-HP-P	Pink abrasive medium wheel (2/pk)
9771M-170-HP	Blue medium twist polisher (2/pk)
9769F-170-HP	Beige composite twist polisher (2/pk)
DCA12-170-HP	Beige brown/orange wheel (1/pk)
HM488FX-016-HP	Red fine tungsten carbide (2/pk)
HM79EX-040-HP	Yellow EF tungsten carbide (1/pk)

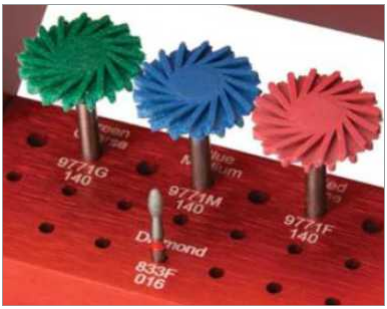
B) Fire for greater strength (370 MPa).

If glazing, protect the intaglio (underside) from glaze. Apply an even coat of paint-on glaze. (Note: with spray glaze, apply an even coat, air dry 10 seconds, and then apply a second coat.)

Popular ways of holding the restoration while glazing



Close (X)



DSG21 Intraoral Kit Refills (Glass ceramics)

9771G-140-RA	Green coarse twist polisher (2/pk)
9771M-140-RA	Blue medium twist polisher (2/pk)
9771F-140-RA	Red fine twist polisher (2/pk)
833F-016-FG	Red fine football diamond (5/pk)

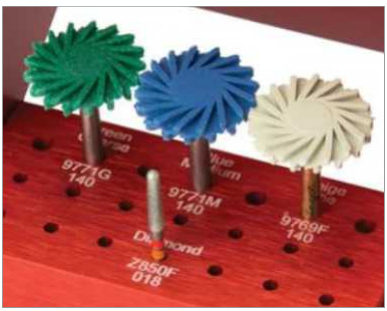
Wait until the clock timer reaches 0, then move the restoration to the fan area (see arrow). Allow to cool naturally for 5-6 minutes.

Try-in and polish

1 Try the restoration in the mouth and test for proximal* contacts. Adjustments should be made with a wet grinding high-speed hand-piece (diamond grain size ≤ 40 µm).

***To prevent fracturing, don't check**

Close X



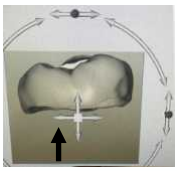
DSZ21 Intraoral Kit Refills (Zirconia)

9771G-140-RA	Green coarse twist polisher (2/pk)
9771M-140-RA	Blue medium twist polisher (2/pk)
9769F-140-RA	Composite twist polisher (2/pk)
Z850F-018-FG	Diamond for zirconia, round taper (5/pk)

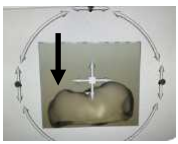
Cut the restoration from the block* and remove the sprue

Close X

Because CEREC MTL has a multi-transitional layer, if you move the restoration up in the block before milling, you can create a lighter look.



Conversely, if you move the restoration down in the block, you can create a darker look.



Special thanks to Bret Aagesen and Shelby Jorgensen

Wait until the clock timer reaches 0, then move the restoration to the fan area (see arrow). Allow to cool naturally for 5-6 minutes.

Close X

DSU21 Universal Extraoral Kit Refills

Back row (L to R)	
936SC-200-HP	EF sintered diamond disc (1/pk)
9752G-170-HP-GR/O	Green/orange coarse wheel (1/pk)
9771G-170-HP	Green coarse twist polisher (2/pk)
9771F-170-HP	Red fine twist polisher (2/pk)
DCA06-170-HP-BL/O	Blue/orange polisher wheel (1/pk)
9617V-220-UNM-WH	Universal polisher wheel (10/pk)
303RF-050-HP	Mandrel (5/pk)
Middle row (L or R)	
850F-025-HP	2.5 fine round taper diamond (5/pk)
DCA04-040-HP	Blue/orange med. flame (2/pk)
DCA10-040-HP	Beige brown/orange flame (2/pk)
Front row (L to R)	
9681P-220-UNM-BL	Precious metals / acrylic wheel (10/pk)
303RF-050-HP	Mandrel (5/pk)
9736G-150-HP-P	Pink abrasive medium wheel (2/pk)
9771M-170-HP	Blue medium twist polisher (2/pk)
9769F-170-HP	Beige composite twist polisher (2/pk)
DCA12-170-HP	Beige brown/orange wheel (1/pk)
HM488FX-016-HP	Red fine tungsten carbide (2/pk)
HM79EX-040-HP	Yellow EF tungsten carbide (1/pk)

1 After cleaning and curing the job in the Primeprint PPU remove the Primeprint Box.

2 Place the build platform horizontally or vertically on the holder. Use the spatula to remove the job and any residue

Close X

DSP22 Primeprint Polishing and Finishing Kit Refills

(Left to Right, Front to Back)

HM489FX-023-HP	Red Fine tungsten carbide (1/pk)
HM79EX-040-HP	Yellow EF tungsten carbide (1/pk)
941SG-220-HP	Coarse sintered diamond disc (1/pk)
9736H-150-HP	Coarse Turquoise wheel (2/pk)
9790-170-HP	Gray twist polisher (2/pk)
150-220-HP	Cotton Wheel 22mm (5/pk)
9769F-170-HP	Beige twist polisher, high shine (2/pk)
9769M-170-HP	Pink twist polisher, prepolisher (2/pk)

Close

2023

May: SW 5.2.7 (requires SW 5.2.4 min. installed) 1 GB
Highlights: Fixes Zirconia ONE "Quality Label detection error" touch process error in the MCXL. DS Core pairing.

Download Site

Block DB: ends in 956.166 / PM firmware: 2.7.33.V012023

2022

Oct: SW 5.2.4 (requires SW 5.2.3 installed) 1 GB
Highlights: New SF demo modes, sprue optimization allowing longer bridges to fit, Zirconia ONE block added.

Update description

Block DB: ends in 924.164 / PM firmware: 2.6.8.V122021

March: SW 5.2.3 (doesn't require previous version) 4GB
Highlights: Fast grinding Tessera, CZ+ multiple sintering

Update description

Block DB: ends in 860.160 / PM firmware: 2.5.18.V122021

2021

December: SW 5.2.2 (requires SW 5.2 installed) 1GB
Highlights: BLX TiBase, wet mill MTL, PM milling offset 0

Update description

Block DB: ends in 856.160 / PM firmware: 2.4.18.V022021

July: SW 5.2.0 (require 5.2 license key) 4GB
Highlights: Primescan scan speed, Fast e.max, EF grinding

Update description

Block DB: ends in 782.152 / PM firmware: 2.4.17.V022021

May: SW 5.1.3 Material Pack 35 MB + 340 MB firmware
Highlights: CEREC MTL, CEREC Zirconia+, CEREC Tessera

Block DB: ends in 744.152 / PM firmware: 2.3.70_mp_V112020

Close X

SpeedFire Demo Cycles (by SW Version)

SW 5.2.4 & SW 5.2.7	Time
1 **CEREC MTL Zirconia** (dry sintering, A1, A3.5, < 4 mm)	18:48
2 **CEREC MTL Zirconia** (dry sintering, A2, C2, < 4 mm)	19:58
3 **CEREC MTL Zirconia** (glazing, all shades)	9:00
4 **CEREC Tessera** (matrix firing, all shades)	4:30/10:45
5 **CEREC Zirconia+** (dry, wall thickness 3.0 – 3.5 mm)	24:53
SW 5.1.1 to SW 5.2.3	
1 **CEREC Tessera** (matrix firing, all shades)	4:30/10:48
2 **CEREC Zirconia+** (Dry, wall thickness 3.5 – 4.0 mm)	26:43
3 **Blank**	- -
4 **CEREC Zirconia+** (glazing, all shades)	7:22
SW 5.1	
1 **Celtra Duo** (glaze firing, all shades)	10:45
2 **CEREC Zirconia+** (Dry, wall thickness 3.5 – 4.0 mm)	26:43
3 **Blank**	- -
4 **CEREC Zirconia+** (glazing, all shades)	7:22

Close X

2023, April: inLab CAM 22.3.0 & Apps

Update description | Download Site

Name	Full Version Number
inLab CAM	22.3.0.278709
Primeprint Firmware	1.3.**26**-V122022
PPU Firmware	1.3.**21**-V122022

2022, Nov 2: inLab CAD 22.1.1 & Apps

inLab CAD	22.1.**1**.27**6516**
inLab Model*	22.0.**3**.27**6470**
inLab Splint*	22.0.**3**.27**6285**
inLab Partial Framework*	22.0.2.27**6406**

2022, Oct 21: inLab CAM 22.2 / Primeprint

inLab CAM	22.**2.0**.275908
Primeprint Firmware	1.1.**19**-V062022
PPU Firmware	1.1.**200**-V03202

2022, May 17: inLab CAM 22.1 / Primeprint

inLab CAM	22.1.0.27**1503**
Primeprint Firmware	1.0.**26**-V032022
PPU Firmware	1.0.**31**-V032022
inLab CAD	22.1.0.27**1728**
inLab Model	22.0.2.27**0572**
inLab Splint	22.0.2.27**1716**
inLab Partial Framework	22.0.2.27**1717**

*Before upgrading the apps, please uninstall the old apps.

Often, at Least Every 14 Days*

Primeprint

- Check the glass plate of the projector for resin residuals or dust. Clean with Purosol Optics Cleaner (67 82 481) and the multi-use Microfiber Cloth (68 02 917).

Close X

Annual Maintenance Kit
Included with Core Care* (retail value of $550)

Primeprint

Activated Charcoal Filter

Primeprint Light Engine:

O-rings (qty 2)

Sealed washers (qty 4)

Cleaning Q-Tips

Sponge Inserts (qty. 5)

Purosol Optics Cleaner

Microfiber Cloth

Suction cups for glass pane (qty. 2)

Primeprint PPU

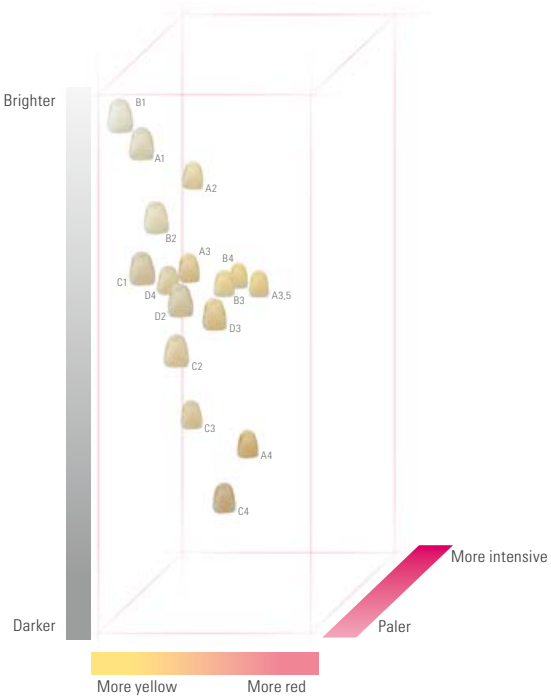
Activated Charcoal Filter

Ozone Filter

Curing Light Filter

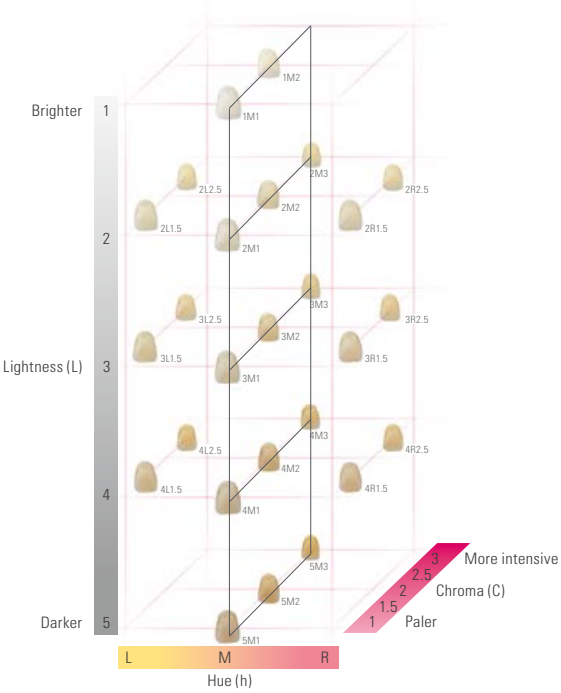
*contents subject to change

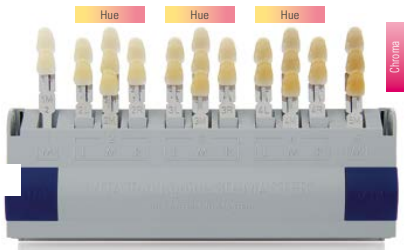
VITA classical A1-D4 Shades



GO BACK

VITA SYSTEM 3D-MASTER Shades





GO BACK

Primescan Connect Lenovo T15g
15in 1TB 32GB 2.5Ghz i7-11580H
Flex Cart $995 29 lbs / 13 kg
W x H x D (in.) = 27 x 32.5 x 16.25
W x H x D (cm) = 68.4 x 82.3 x 58.1

Primescan AC 84 lbs / 38.1 kg
W x H x D (in.) = 16.1 x 46.9 x 17.5
W x H x D (cm) = 40.89 x 119.12 x 44.45
SW 5.2 + Pro Module
License code envelope

CEREC Primescan AC 84 lbs / 38.1 kg
W x H x D (in.) = 16.1 x 46.9 x 17.5
W x H x D (cm) = 40.89 x 119.12 x 44.45

CEREC Primemill 102 lbs / 46.26 kg
W x H x D (in.) = 28.7 x 17.9 x 18.3
W x H x D (cm) = 72.89 x 45.46 x 46.48

CEREC MC X 95 lbs / 43.09 kg
W x H x D (in.) = 27.6 x 16.7 x 16.5
W x H x D (cm) = 70.1 x 42.41 x 41.91

Suction Unit 28 lbs / 12.7 kg
W x H x D (in.) = 10 x 13 x 14.5
W x H x D (cm) = 25.4 x 33.02 x 36.83

CEREC SpeedFire 46 lbs / 20.86 kg
W x H x D (in.) = 11 x 16.75 x 19
W x H x D (cm) = 27.94 x 42.54 x 48.26

Primeprint Solution* 90.39 lbs / 41 kg
W x H x D (in.) = 20.86 x 26.37 x 20.27
W x H x D (cm) = 53 x 67 x 51.5
Allow 3 in. (7.62 cm) to left side

Post-Processing Unit 110.2 lbs / 50 kg
W x H x D (in.) = 28.74 x 26.37 x 21.65
W x H x D (cm) = 73 x 67 x 55
Allow 4 in. (10.16 cm) between the units and 3 in. (7.62 cm) behind for ventilation

*Active print area: 5.3 x 3 inches (134.4 x 75.6 mm)

Close X

Flex Cart

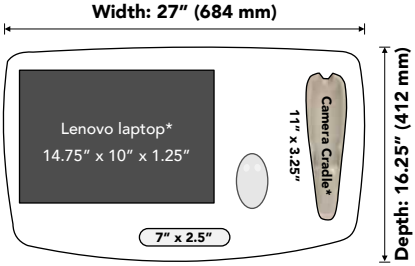
29 lbs. (13 kg)

Photo Measurements

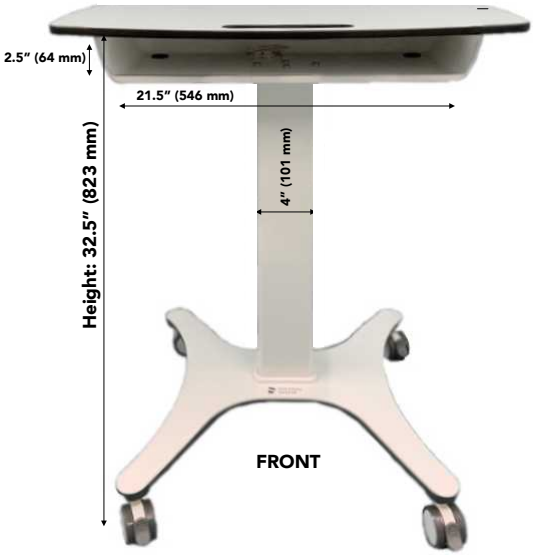
Close X

Flex Cart

29 lbs. (13 kg)



*Laptop, mouse, and camera cradle shown for scale (not included with Flex Cart).



Base: 22.875" (581 mm)

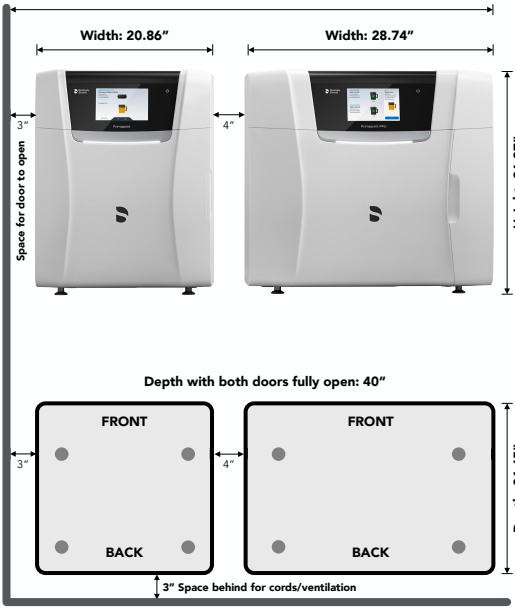
Photo Measurements

Primescan Connect $24,995 MSRP
67 95 491 (Laptop included)

Close X

Counter space: 56.6”

Realistically, 60” to allow for 3” on the PPU side as well



Inches Centimeters

68 02 446

Countertop Needed Drawing

What Doctor Provides List

Speed / # of Units Chart

Units per Cartridge Chart

*Active print area: 1920 x 1080 (70µ pixel)

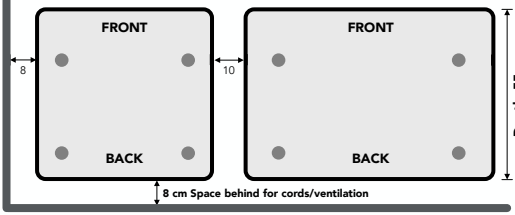
Primescan Connect $24,995 MSRP
67 95 491 (Laptop included)

Close X

Counter space: 144 cm

Realistically, 152 cm to allow for 8 cm on the PPU side as well

Depth with both doors fully open: 101.6 cm



Inches Centimeters

68 02 446

Countertop Needed Drawing

What Doctor Provides List

Speed / # of Units Chart

Units per Cartridge Chart

*Active print area: 1920 x 1080 (70µ pixel)

Close X

The doctor provides the following:

1. Nitrogen Tank(s) and 99% Pure Nitrogen

Recommended: 40 cu ft. Secure the tank according to the gas supplier's recommendations. Determine the location for the tank (ideally closer is better). Consider getting a reserve tank (size chart).

2. Tank Regulator and Fitting

Pressure regulated to 60-70 psi. One example: Harris Regulator 25GX-145-CA580 (3000540).

We supply a ¼ Male NPT. Whichever regulator you select, it needs to have a ¼ female NPT. If you purchase the Harris model above, order this brass fitting.

3. Supply of Isopropyl Alcohol (>98%)

Each resin requires 1.3 gallons (5 liters) to fill each set of washing containers. Recommendation: (Amazon link)

4. Electrical (adequate available amperage on the circuit)

Primeprint: 2.0A current draw
Primeprint PPU: 3.4A current draw

5. Table or Counter Space (click to see in cm)

Primeprint: (W) 20.86" x (H) 26.37" x (D) 20.27"
Primeprint PPU: (W) 28.74" x (H) 26.37" x (D) 21.65"

Overall*: (W) 58.6" x (H) 27.00" x (D) x 23.5"

*Allows for 3"behind, 4"between, and 3" to the side. The table/counter must be capable of supporting 250 lbs. (113.4 kg) while remaining level (no sagging). One suggestion.

6. Ethernet Connections and Server Access

The Primeprint, Primeprint PPU, and computer for the inLab CAM require a hardwired ethernet connection to the office network and server access. Consider buying a network switch if you don't have enough ethernet drops.

7. Dedicated Computer for inLab CAM

inLab CAM software must run on a dedicated computer meeting the following specs (or better):

i5-9600KF 3.7 GHz, 32 GB, AMD Pulse Radeon RX 570 (8GB), 2 TB + 250 GB EVO, Windows 10 Enterprise

Close X

The doctor provides the following:

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4. Electrical (adequate available amperage on the circuit)

Primeprint: 2.0A current draw

Primeprint PPU: 3.4A current draw

Close X

Measurements in cm:

Primeprint: (W) 53 cm x (H) 67 cm x (D) 51.5 cm

Primeprint PPU: (W) 73 cm x (H) 67 cm x (D) 55 cm

The Overall values below allow for 7.6 cm behind the units, 10.1 cm in between, and 7.6 cm to the side of the Primeprint to allow the door to open.

Overall (cm): (W) 143.78 x (H) 68.0* x (D) x 62.6

*To allow for some space between the top and the cabinet.

enough ethernet drops.

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2. Tank Regulator and Fitting

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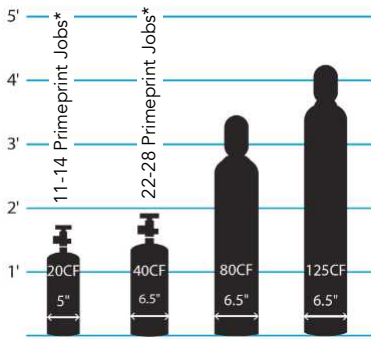

*estimated usage based on 40–50 liters / job

Feet/inches Centimeters

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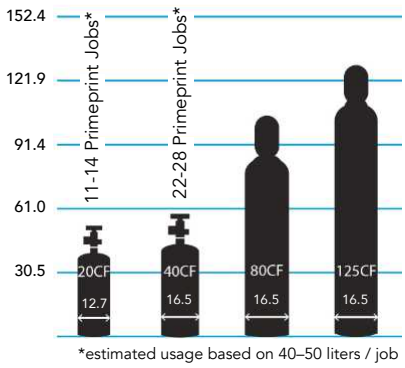

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i5-9600KF 3.7 GHz, 32 GB, AMD Pulse Radeon RX 570 (8GB), 2 TB + 250 GB EVO, Windows 10 Enterprise

Close X

Print Speed by Detail Level

inches per hour / mm per hour

See Pictures	Very High 50 µm	High 100 µm	Low 200 µm
Splint	1.06	1.77	3.15
Tray	_._	1.86	3.02
Guide	_._	1.73	_._
Model T	1.10	1.77	2.66
Model	1.05	1.66	2.23
Temp	0.82	1.43	_._
Cast	0.80	1.40	_._

Potential # of Units on Build Platform

See Pictures	Optimized by: Quality	Height	Footprint
Bridge	12	13	23
Guide	4	4	14
Splint	2	1	3
Model	2	2	3
Tray	1	1	2

Close X

Print Speed by Detail Level

inches per hour / mm per hour

See Pictures	Very High 50 µm	High 100 µm	Low 200 µm
Splint	26.44	45.00	79.91
Tray	_._	47.20	76.58
Guide	_._	44.00	_._
Model T	27.95	45.00	67.47
Model	26.76	42.25	56.66
Temp	30.00	36.24	_._
Cast	20.46	35.54	_._

Potential # of Units on Build Platform

See Pictures	Optimized by: Quality	Height	Footprint
Bridge	12	13	23
Guide	4	4	14
Splint	2	1	3
Model	2	2	4
Tray	1	1	2

Primescan Connect $24,995 MSRP
67 95 491 (Laptop included)
Flex Cart $995 MSRP
68 06 082
Drawing

Primescan AC $44,995 MSRP
66 92 714 (2.1–5.0A)

SW 5.2 + Pro Module $34,995 MSRP
67 72 771 (SW upgrade to full system)

CEREC Primescan AC $69,995 MSRP
66 67 211

CEREC Primemill $79,995 MSRP
67 26 561

CEREC MC X $63,995 MSRP
64 28 481

Suction Unit $1,473 MSRP
65 80 786

CEREC SpeedFire $12,495 MSRP
64 82 850

Close X

Indication	# of Jobs / Cartridge*
Models	45
Tray	50
Cast	250
CEREC Guide	100-115
Splint	75-90
Temp	2,000

*Numbers may vary based on user design

Close X

Print Speed by Detail Level

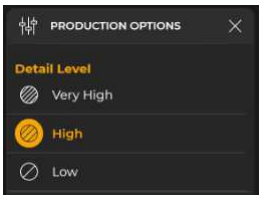
inches per hour — mm per hour

See Pictures

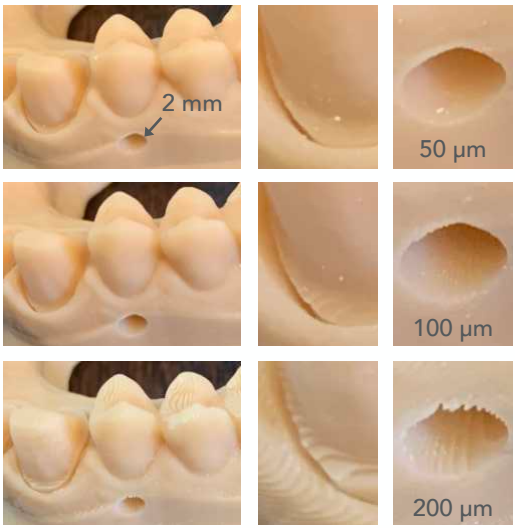
Very High	High	Low
50 µm	100 µm	200 µm

Close X

Detail Setting (Layer Thickness)



For most day-to-day print jobs, a Detail Level of High (100 microns) is a good choice for almost everything except: temporary and castable restorations which benefit from the finer details of Very High (50 microns) and custom impression trays where a setting of Low (200 microns) provides sufficient detail and faster printing.



Close X

Print Speed by Detail Level

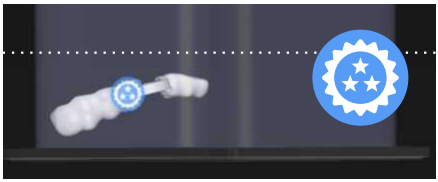
inches per hour mm per hour

See Pictures

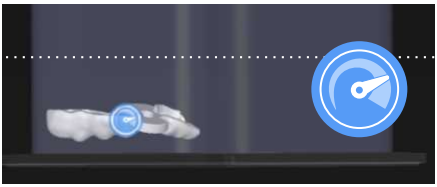
Very High	High	Low
50 µm	100 µm	200 µm

Close X

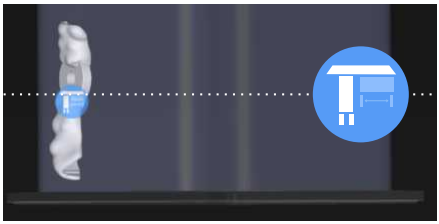
Optimize Quality: Places the job in the optimal orientation for the best outcome.



Optimize Height: Places the job horizontally to decrease the print time.



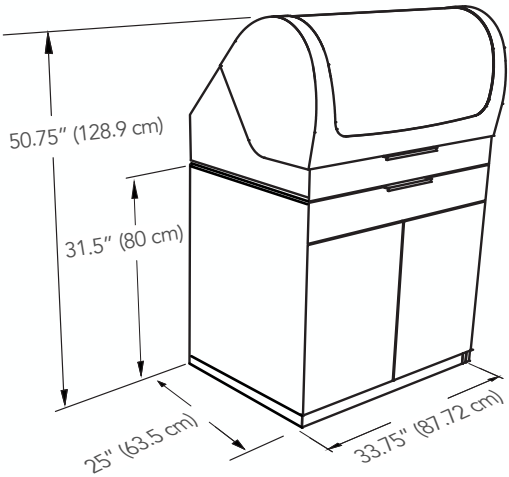
Optimize Footprint: Places the job vertically to fit more items on the plate.

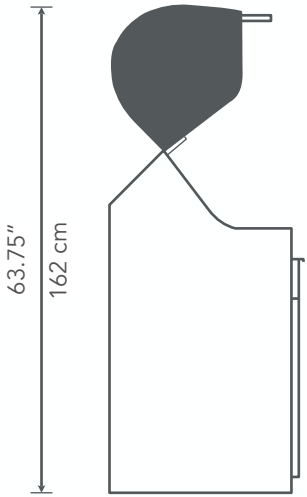


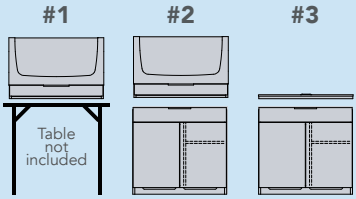
Close X

Close X

KAPPLER







Photo

Measurements

Kappler Primemill Cabinets

Option 1 $5,110 MSRP

1000 08 549	Station Table Top 2020	$5,110

Option 2 $7,708 MSRP

1000 08 549	Station Table Top 2020	$5,110
1000 08 545	Station Base 2020	$2,325
1000 08 550*	Caster Set	$273

Option 3 $3,173 MSRP

1000 08 546	Station Counter Top	$575
1000 08 545	Station Base 2020	$2,325
1000 08 550*	Caster set	$273

**Optional add-on*

Blue License Drive $135 MSRP
67 21 703

Details

Design Center PC $5,961 MSRP
Comes with CEREC SW license.
65 43 560*

inLab PC $3,995 MSRP
100 005 929*

Details

*Monitor (60 42 548, $523), keyboard, mouse, and power cord not included. Blue license drive sold separately (note: one comes with the Primeprint). PC must be hardwired to network.

Design Center PC v. 5.4.1

Dimensions (in.): 14 High x 9 Wide x 15.5 Deep

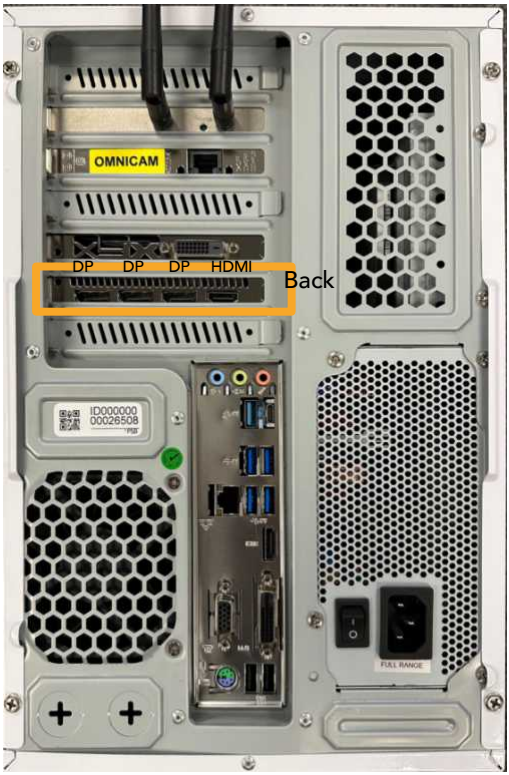
Dimensions (cm): 35.56 High x 22.86 Wide x 39.37 Deep

Includes CEREC SW 5.2.x license

Intel i7 chip / 32 GB RAM / 250GB SSD + 2TB HDD

Radeon RX 570 8GB Choose from Display port or HDMI (shown in orange) on the video card for your monitor

Windows 10 Enterprise



X

inLab PC v. 6.0.3

Dimensions (in.): 17.25 High x 7.75 Wide x 19.25 Deep

Dimensions (cm): 43.81 High x 19.68 Wide x 48.90 Deep

No CEREC SW or inLab licenses included

Intel i7 chip / 32 GB RAM / 250GB SSD + 2TB HDD

AMD Pulse Radeon RX 570 or nVidia GeForce RTX 2060

Choose from Display port or HDMI (shown in orange) on the video card for your monitor

Windows 10 Enterprise

CEREC Tessera 4/box

HT, Size 14, $138.72 MSRP

A1 536 543

Close X

Tessera Starter Kit Contains:

12 Sample blocks (2 each shade/translucency)

HT: A2, A3

MT: A1, A2, A3, A3.5

Mini honeycomb tray (1/pk sample)

Investment pins samples (1 posterior, 1 anterior)

536 590 1212	Round firing pads (3/pk)
60 13 15	Stain & Glaze Liquid (15ml)
60 55 42	Paint-on overglaze High Flu (1/jar)
536 549 0112	Moldable silicone (2/pk)

Pinelo Magnetic-tip Brushes (size 2 tip, size 0 tip/handle)

Diamond-coated tweezers

Close X

DSU21 Universal Extraoral Kit Refills

Back row (L to R)

936SC-200-HP	EF sintered diamond disc (1/pk)
9752G-170-HP-GR/O	Green/orange coarse wheel (1/pk)
9771G-170-HP	Green coarse twist polisher (2/pk)
9771F-170-HP	Red fine twist polisher (2/pk)
DCA06-170-HP-BL/O	Blue/orange polisher wheel (1/pk)
9617V-220-UNM-WH	Universal polisher wheel (10/pk)
303RF-050-HP	Mandrel (5/pk)

Middle row (L or R)

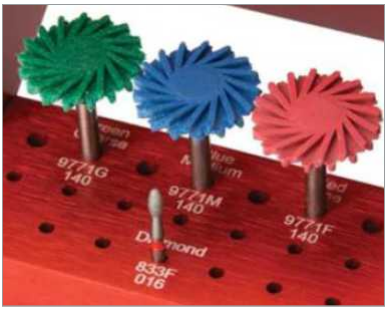
850F-025-HP	2.5 fine round taper diamond (5/pk)
DCA04-040-HP	Blue/orange med. flame (2/pk)
DCA10-040-HP	Beige brown/orange flame (2/pk)

Front row (L to R)

9681P-220-UNM-BL	Precious metals / acrylic wheel (10/pk)
303RF-050-HP	Mandrel (5/pk)
9736G-150-HP-P	Pink abrasive medium wheel (2/pk)
9771M-170-HP	Blue medium twist polisher (2/pk)
9769F-170-HP	Beige composite twist polisher (2/pk)
DCA12-170-HP	Beige brown/orange wheel (1/pk)
HM488FX-016-HP	Red fine tungsten carbide (2/pk)
HM79EX-040-HP	Yellow EF tungsten carbide (1/pk)

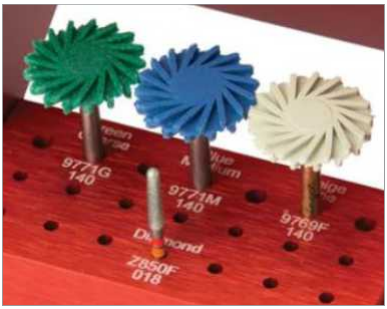
CEREC MTL Zirconia
Mono (crowns, 4/box)
A1 536 545 0001

Close X



DSG21 Intraoral Kit Refills (Glass ceramics)

9771G-140-RA	Green coarse twist polisher (2/pk)
9771M-140-RA	Blue medium twist polisher (2/pk)
9771F-140-RA	Red fine twist polisher (2/pk)
833F-016-FG	Red fine football diamond (5/pk)



DSZ21 Intraoral Kit Refills (Zirconia)

9771G-140-RA	Green coarse twist polisher (2/pk)
9771M-140-RA	Blue medium twist polisher (2/pk)
9769F-140-RA	Composite twist polisher (2/pk)
Z850F-018-FG	Diamond for zirconia, round taper (5/pk)

Inner Diameter (mm)			S ≤3.5	M ≤4.3	L ≤5.0
Nobel (NB)					
2.0	Pilot	Set	X	X	X
2.8			X	X	X
3.0			X	X	X
3.2			X	X	X
3.4			X	X	X
3.6				X	X
3.8				X	X
4.1				X	X
4.2				X	X
4.6					X
5.0					X
Astra (AT)					
2.0	Pilot	Set	X	X	X
3.2			X	X	X
3.35			X	X	X
3.7				X	X
3.85				X	X
4.2				X	X
4.7					X
4.85					X
Biomet 3i (B)					
2.0	Pilot	Set	X	X	X
2.75			X	X	X
3.0			X	X	X
3.25			X	X	X
3.85				X	X
4.25				X	X
Straumann (ST)					
2.2	Pilot	Set	X	X	X
2.8			X	X	X
3.5			X	X	X
4.2				X	X

Close X

Additional IFU Details

Tray	- Tray minimal thickness: 2.5 mm - Grip minimal thickness: 5.0 mm
Cast	- Burn-out temp. 800° C for 30–45 min. (depending on the size of the mold)
Guide	- Minimal thickness 1.5 mm - MMA Free - Sterilization possible: W&H Lisa 522 (Program Universal 121)
Splint	- Minimal thickness 1.5 mm - MMA Free - In the office cleaning: ultrasonic bath - At-home cleaning: toothbrush and water (or liquid soap), then rinse - Cleaning tablets allowed - Do not use toothpaste
Temp	- Min. thickness 1.5 mm (0.8 mm axial) - Do not heat sterilize restorations - Indicated for up to 4-unit bridges Minimum bridge connector sizes: Anterior: 12 mm² Posterior: 15 mm²

If eye contact, rinse and seek medical advice.

Resins may remain in the vat for a max. of five months.

See next page

New pricing added (effective May 1). To see what else is new, click on a page number below.

p. 5 Added a pop-up list of hyperlinks to DS Core videos.

p. 5 Added a pop-up showing DS Core supported file formats.

p. 5 Added a pop-up showing the details of the DS Core Configure later option.

p. 5 Added hyperlinks for dialing the DS Core support hotline numbers (bottom of the page).

p. 17 *PLEASE, START HERE* link to new videos on Primeprint care and maintenance.

p. 56 Added a pop-up to show the effects of moving a restoration up/down in the CEREC MTL block.

p. 76 Updated CEREC SW and inLab history. Added SpeedFire Demo Cycle history link (top of page).

p. 96 Added recent revisions to the Maintenance Schedule for the CEREC Primemill and MC X / MC XL.

p. 240 Added two new shades (BL & A3.5) for GC Initial LiSi Block.

p. 283 OmniTaper EV implant added to TiBase/Scan-post compatibility chart.

p. 329 Added the part number and cost for the optional Flex Cart for the Primescan Connect.

p. 329 Added picture, weight, and dimensions of the Flex Cart.

p. 329 Added dimensions for the printable area of the build platform on the Primeprint (bottom of page).

p. 329 Added buttons to display additional details on the Design Station and inLab PC.

p. 345 Added resin details from the newly released *Instructions for Use* PDFs.