Technical Information

Straumann® CARES® Scan & Shape

Basic Information

straumann®
simply doing more℠

Contents

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1 General information

1.1 Straumann® CARES® Scan & Shape

CARES® Scan & Shape lets you benefit from the knowledge and experience of a highly trained team of CADCAM dental experts to provide a tailored design service. The concept is designed to ensure the best possible fit of the final restorations. You can now order via Scan & Shape: customized abutments, CARES® Screw-retained Bars and Bridges (SRBB), CARES® X-Stream™ Restorative Options and tooth-borne restorations*.

Whether you're expanding your business or you have an existing staff member out for an extended period of time, we're open 24/7 so you don't have to be.

Ordering process

- The CARES® Scan & Shape online ordering platform provides a one-stop-shop for all your customized prosthetics.
- Send digital files using our open STL-Files upload** service.
- Traditional workflow options – send us your master cast and/or wax-up model**.

Premium Straumann® Service

- Custom-made abutment design
- Straumann® Original connection
- Straumann precision fit between implant and abutment

Compatible Solutions – etkon® iDent***

- Provides a streamlined "one-stop shop" and an efficient digital workflow.
- Benefit from Straumann CARES Scan & Shape services for customized abutments and etkon® X-Stream™ single restoration for all major implant platforms*.

* *Not all products available in all countries.*

** *STL File upload option and model workflow may vary from country to country. Not all products are available through wax up workflow. Please contact your local sales representative for a detailed overview of the available worklows and products.*

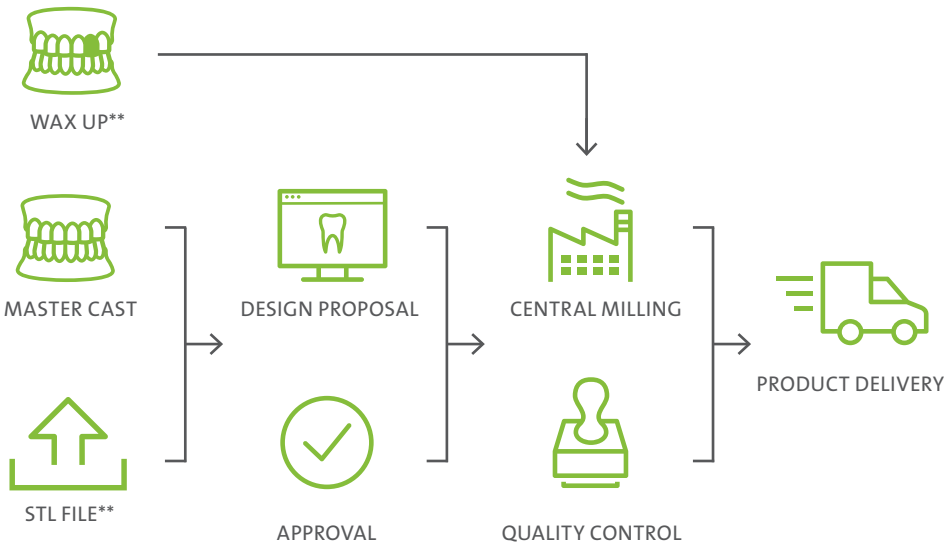
*** *etkon® iDent is not available in all countries. Please contact your local sales representative for a detailed overview of available products.*

1.2 Straumann® CARES® Scan & Shape workflow overview*

Even CADCAM proficient labs can take advantage of our design service. If you are using 3Shape, Exocad, Dental Wings or any other dental-design software you can simply upload your open STL files.

1.2.1 Digital functionality **

- Upload your case from any open system such as 3Shape, Exocad, Dental Wings, etc.
- Upload your open STL-file of lower jaw, upper jaw, bite registration, together with a scan of diagnostic wax-up for SRBBs.



1.2.2 Simple workflow

Log onto Straumann® CARES® Scan & Shape Online:
www.straumann.us/scanandshape

- Send us your STL files, ship us your models or wax-ups**
- Manage your orders online anytime around the clock
- Receive your CARES® Prosthetics just the way you want it

* *Product offering may vary from country to country.*
Not all products and workflows are available in all countries.

** *STL File upload option and model workflow may vary from country to country.*
Not all products are available through wax up workflow.
Please contact your local sales representative for a detailed overview of the available workflows and products.

2 Scan & Shape online platform product portfolio*

The below CARES® product offerings are available via CARES® Scan & Shape. For a complete product portfolio, contact your local Straumann representative.

2.1 CARES® implant-borne restorations

	Single-tooth restoration		Multi-tooth restoration		Edentulous	
	Screw-retained	Cement-retained	Screw-retained	Cement-retained	Screw-retained	Cement-retained
CARES® Abutment, Ti		●		●		
CARES® Abutment, TAN	●					
CARES® Abutment, ZrO_2	●	●		●		
CARES® Screw-retained bridge			●		●	
CARES® Bars, removable prosthetics					●	
CARES® Fixed Bars, fixed prosthetics			●		●	
CARES® X-Stream™ solution	●	●	●	●	●	

2.2 Tooth-borne restorations

Straumann® CARES® Tooth-borne prosthetic restorations are used on natural teeth or for the restoration of Straumann implants and prosthetic solutions. Straumann® CARES® Tooth-borne prosthetic restorations allow individual customization regarding function and esthetics for various applications. They are offered also for etkon® iDent portfolio.

** Not all products available in all countries.*

2.3 CARES® Customized Abutments

CARES® Customized Abutments are available in 3 materials as a single piece abutment: zirconium dioxide, titanium and TAN (veneerable Titanium alloy).

CARES® abutment, zirconium dioxide (ZrO_2)

PRACTICE | LABORATORY

- Mechanical stability and proven biocompatibility allows highly reliable dental restorations
- Available in both screw-retained and cement-retained restorations
- High design flexibility
- Direct veneering is possible to waive the creation of a coping

CARES® abutment, titanium

PRACTICE | LABORATORY

- High design flexibility allows the abutment to adapt to the patient's oral situation
- Covered by Lifetime Straumann Guarantee®
- Excellent material properties designed for reliability
- Available for cement-retained restorations

CARES® abutment, TAN[1]

PRACTICE | LABORATORY

- Mechanical stability and proven biocompatibility allows highly reliable dental restorations
- Efficiency: one scan only to design abutment and anatomic shape
- Flexible workflow: both firing and non-firing processes are possible
- Flexibility in choosing veneer material: both ceramic and polymer materials are possible
- Allows a direct veneering process to finalize the restoration faster

[1] *The TAN material is composed of titanium alloy (Titanium-Aluminum-Niobium, Ti6AL7Nb)*

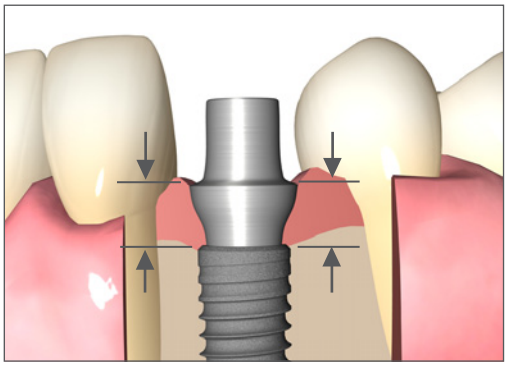
For your reference, Straumann® CARES® Abutments are available with the following platforms and in the following materials:



	Titanium	TAN	Zirconium dioxide
For Tissue Level Implants	–	–	–
	RN	RN	RN
	WN	WN	–
For Bone Level Implants	NC	NC	NC
	RC	RC	RC
	NNC	NNC	NNC

MARGIN POSITION

Margin depths are measured from the gingival crest to the abutment margin. There are four options to choose from. Please indicate the option number on your order form for the preferred position.

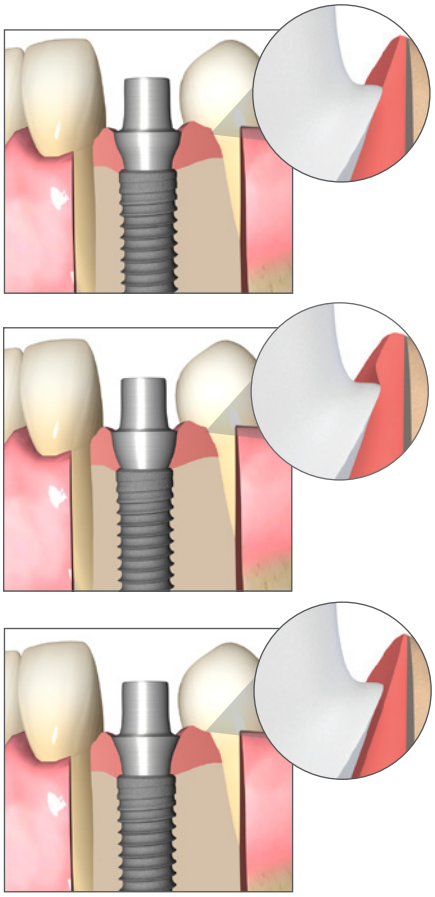


Margin positions

Margins	Suggested:	Please specify:
Buccal/facial:	1.0 mm subgingival	Buccal/facial:_____
Distal:	0.75 mm subgingival	Distal:_____
Mesial:	0.75 mm subgingival	Mesial:_____
Lingual:	0.5 mm subgingival	Lingual:_____

EMERGENCE PROFILE

Straumann uses its proprietary technology to automatically generate an emergence profile which adapts to the sulcus information provided with your model. However, if you wish to apply some compression or relief of the soft tissue, you may indicate that this is required. By default, we will produce your Straumann® CARES® Abutment with the best fit emergence profile. Please indicate the option number on your order form for the preferred position.



Option 1 - Anatomic Best Fit

- This design is based on the best emergence profile possible to support the soft tissue by applying only light pressure
- Temporary blanching of the soft tissue may occur at the time of insertion
- The size of the abutment is determined by the space created by the healing/temporary abutment. There may be situations where it is not possible to create tissue support with the abutment

Option 2 - Convex Profile

- Where moderate compression of the soft tissue is required, the abutment can be produced with a more convex emergence profile

Option 3 - Concave Profile

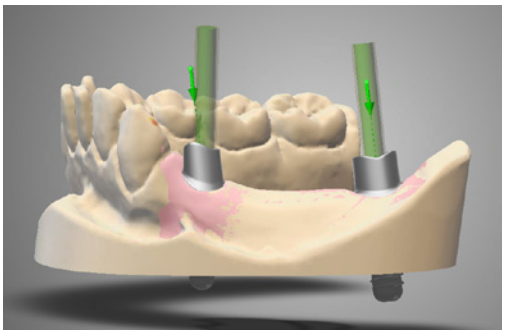
- This profile creates an abutment which does not touch the soft tissue
- If a stone model is provided with no gingival mask, this is the recommended option

Note:

All Straumann CARES Abutment design images are 3D PDF files and therefore do not represent the dynamic relationship of the actual soft tissue morphology with the abutment when it is placed.

CUSTOMIZED ABUTMENTS FOR CEMENT-RETAINED BRIDGE

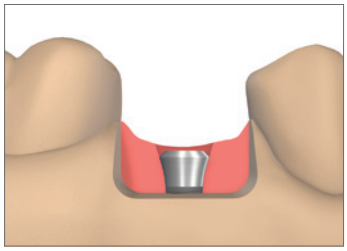
When Straumann® CARES® Abutments are planned for a final bridge restoration, the abutments must be designed in parallel. On the online order form, you may indicate (by clicking) which abutments require a single path of insertion so that you may construct the final bridge mesostructure.



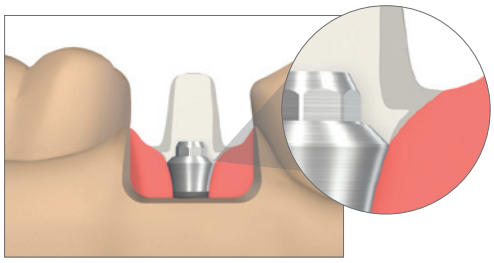
Note:
All Straumann CARES Abutment design images are 3D PDF files and therefore do not represent the dynamic relationship of the actual soft tissue morphology with the abutment when it is placed.

IMPLANT PLACEMENT CONSIDERATIONS

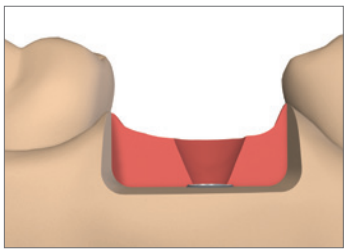
When an implant is placed in a non-ideal position, the choice of the margin position and emergence profile will determine the outcome of the final abutment.



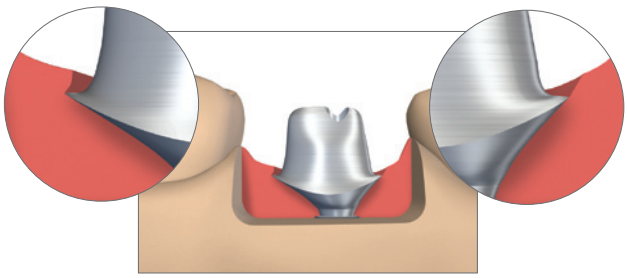
Example 1
When a soft tissue level implant is placed in a high position where the junction between the neck and body of the implant is above bone level, this might result in minimal soft tissue depth for the abutment. Therefore, if a subgingival margin position is selected, the total width of the abutment is also limited.



If you choose a convex profile to create a wider abutment, the margin may be supragingival and exposed.



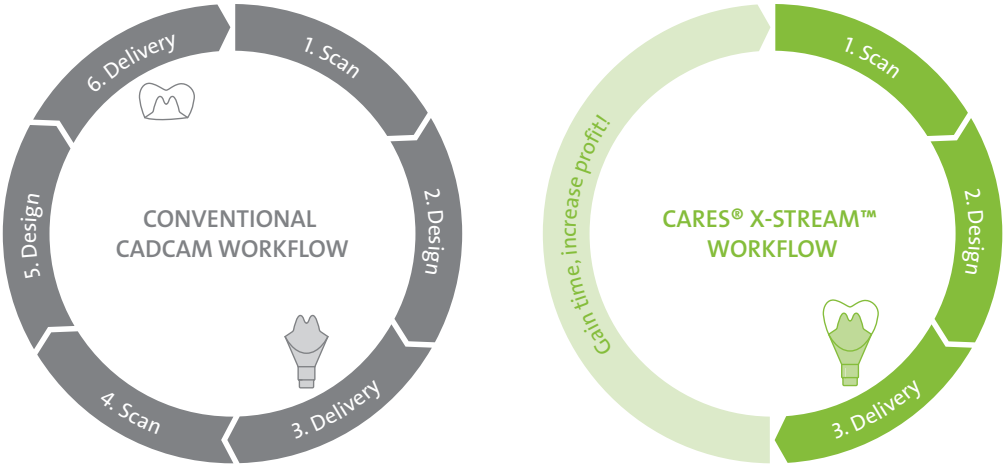
Example 2
If an implant is placed off-center from the required position of the final restoration, we can produce an abutment to compensate for the off-center placement. In such cases, we recommend that you choose Option 1 for the Best Fit emergence profile. In some cases, this may not be possible if the width of the required abutment is outside our manufacturing limits.



2.4 Straumann® CARES® X-Stream®

2.4.1 What is CARES X-Stream?

CARES X-Stream is a highly efficient CADCAM workflow that allows you to gain time by creating the abutment and the corresponding restoration (crown, bridge) in a single streamlined process. Both parts are then milled simultaneously and shipped in one package.



YOUR BENEFITS

Efficiency:
Do you want to step up the productivity and efficiency of your business? Save up to 50 % of the steps compared to conventional CADCAM processing.

Precision:
Fed up with checking the fit? Our validated milling center creates the right fit for you.

Flexibility:
Monolithic or framework? You choose the abutments, materials and techniques that match your professional needs.

Quality:
The Straumann® original connection ensures a perfect fit with Straumann implants.

2.4.2 CARES® X-Stream® restorative options

Straumann now expands the CARES X-Stream portfolio to multiple-tooth restorations to meet your various needs.

		Tooth replacement options[1] Full-contour or frameworks for single tooth, bridges[2] and bars[2]								
		Ceramic						Metal		Polymer
		n!ce® (lithium alumino-silicate ceramic reinforced with lithium disilicate available in 12 shades)	**IPS e.max® CAD** (Lithium-disilicate available in 45 shades)	**zerion® UTML**[3,4] (ultra translucent multi-layered zirconium dioxide available in 4 VITA shades and 1 Bleach shade)	**zerion® ML**[5] (high translucent multi-layered zirconium dioxide available in 3 shades)	**3M™ ESPE™ Lava™ Plus Zirconia**[5] (high translucent zirconium dioxide available in 16 VITA shades and 2 Bleach shades)	**zerion®**[5] (low translucent zirconium dioxide available in 9 shades)	**coron®** (Cobalt Chromium)	**ticon®** (Titanium Grade 4)	**polycon® ae**[4] (PMMA available in 5 shades)
		New	New		New					
CARES® Abutment, Zirconium dioxide[6,8]		Single tooth	Single tooth	≤3 units	Full arch	Full arch	Full arch			Full arch
CARES® Abutment, Titanium[7,8]		Single tooth	Single tooth	≤3 units	Full arch	Full arch	Full arch	Full arch	Full arch	Full arch
Variobase® for crown			Single tooth			Single tooth	Single tooth	Single tooth		Single tooth
Variobase® for bridge/ bar[9]						Full arch	Full arch	Full arch	Full arch	Full arch
Variobase® coping for Screw-retained Abutment[9]				≤3 units	Full arch	Full arch	Full arch	Full arch	Full arch	Full arch

Single tooth ≤3 units Full arch

[1] Application and material availability might differ from country to country. Please contact your local sales representative for a detailed overview of the available applications and prosthetic lines.
[2] Bridges and bars are available with up to 10 implant abutment connections.
[3] Molar bridge excluded
[4] Not available for Bars
[5] Only available for Fixed bars
[6] Not available for NNC and WN
[7] Not available for NNC
[8] Restorations only available without screw channel hole
[9] Restorations only available with screw channel hole

2.5 CARES® Screw-Retained Bridges and Bars

Straumann CARES SRBB are prosthetic mesostructures, either directly screwed to the endosseous dental implant or to the screw-retained abutment intended as an aid in prosthetic rehabilitations for multiple-tooth replacement or fully edentulous patients.

2.5.1 CARES® Bars

Intended use

Straumann® CARES® bars for fixed prosthetics are superstructures for the direct application with dental resin and prefabricated acrylic teeth to treat edentulous cases.

Straumann CARES bars for removable prosthetics are retentive elements to be combined with an overdenture to treat edentulous cases.

Characteristics

- Placement on 2 to 10 platforms
  - Straumann Tissue Level (RN, WN), Bone Level (NC, RC) and BL / TL mixed implant
  - Screw-Retained Abutment
- Free end extensions possible
- Large bar design variety:
  - Dolder® U-shape (regular and mini)
  - Dolder® egg-shape (regular and mini)
  - Dolder® mix (e.g. egg-shaped anterior, U-shaped free-end extensions)
  - MP-Clip® bar
  - Ackermann-Bar®
  - Round Bar
  - Milled bar
  - Basic Fixed Bar
- Straumann® Guarantee for Straumann® CARES® Screw-Retained bridges and bars

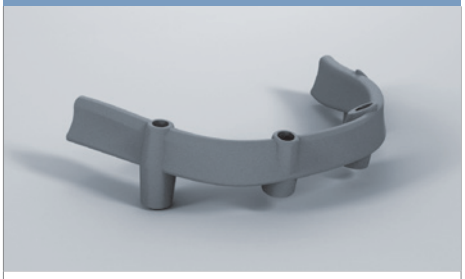
2.5.2 Straumann® CARES® Bars, Removable Prosthetics

Dolder® U-shape Bar	Dolder® Egg-shape Bar	Milled Bar
		
• U-shaped cross-section • Rigid and stable combination of bar and matrix	• Egg-shaped cross-section • Vertical translation and rotation possible	• Adjustable height and width • 0°, 4°, 6, 8° wall taper • Locator® Bar .Abutment • Align common insertion axis of the attachments • More resistant against mastication forces, compared to attachments on their own

Ackermann-Bar®	Round Bar	MP-Clip® Bar
		
• Round-section bar • 2 rider concepts for space saving mounting • Bar diameter 1.8 mm	• Round-section bar • Bar diameter 1.9 mm	• Economical alternative to prefabricated metal matrixes • The retention intensity can easily be adjusted by exchanging the retention inserts. • Bar diameter 1.8 mm

2.5.3 Straumann® CARES® Fixed Bar, Fixed Prosthetics

Basic Fixed Bar (Shapes: lambda, cross, trapezoid)



- For direct application of dental resin and prefabricated acrylic teeth, fully embedded in the final prosthesis
- Easy tissue relining, ideal solution for ongoing tissue management
- Bar is delivered sandblasted
- Economical alternative to a ceramic-veneered bridge

Advanced Fixed Bar

- For direct application of dental resin and prefabricated acrylic teeth, fully embedded in the final prosthesis
- Ideally used for long edentulous ridges that are well healed and stable Intaglio (basal) and oral surface delivered in polished metal; good cleaning and hygiene properties
- Staircase geometry enables enlarged surface for acrylic adaptation and even force distribution
- Economical alternative to a ceramic-veneered bridge

2.5.4 Characteristics

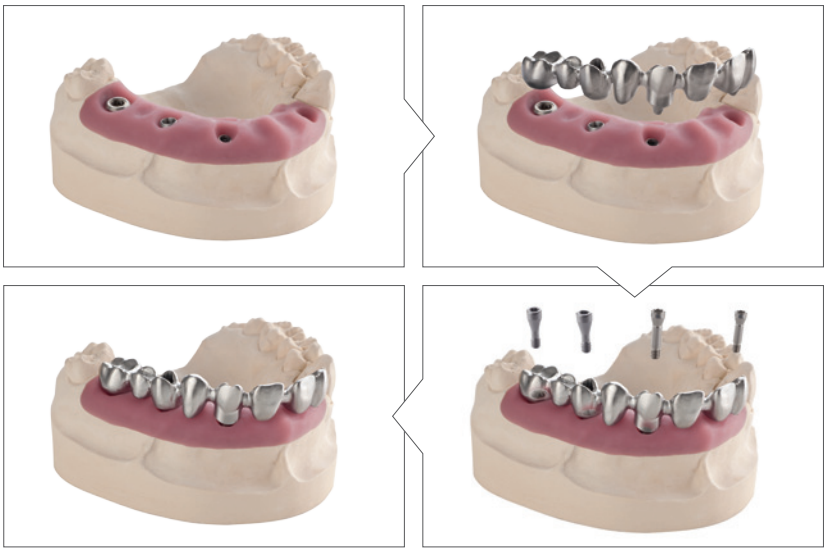
Straumann® CARES® SRBB divergence information

	CARES® SRBB are available on following Straumann® Platforms		Divergence compensation between any two platforms	Screws for Straumann® CARES® SRBB
Implant Level	Straumann® Tissue Level implants	Regular Neck (RN)	40°	synOcta® Basal screw 048.356
		Wide Neck (WN)		
	Straumann® Bone Level implants	Regular CrossFit® (RC)	30°	NC / RC SRBB BL screw 025.2926
		Narrow CrossFit® (NC)		
Abutment Level	Straumann® Screw-Retained Abutment	D 4.6 mm	40°	NC/RC Occlusal screw, TAN for coping, Screw-Retained Abutment 023.4763
		D 3.5 mm	28°	

Important

When combining different platforms with each other, the smallest divergence compensation value is applicable.

2.5.5 Straumann® CARES® Screw-Retained bridge



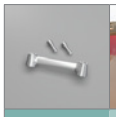
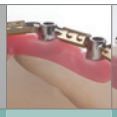
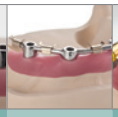
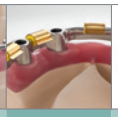
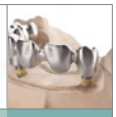
Intended use

- Straumann CARES Screw-Retained bridge is a framework which is intended for direct veneering with appropriate techniques in dental technology or wrapping with acrylics in combination with pre-fabricated teeth, to treat partially or totally edentulous cases.

Characteristics

- 2 to 16 units
- Placement on 2 to 16 platforms
  - Straumann Tissue Level (RN, WN), Bone Level (NC, RC) and BL / TL mixed implant platforms
  - Screw-Retained Abutment
  - Mixing of implant- and abutment-level platforms
- Maximum number of anterior pontics: 4 (only possible between the canines)
- Maximum number of posterior pontics: 3
- Maximum number of free-ends: 1 per end
- Straumann® Guarantee for Straumann® CARES® Screw-Retained bridges and bars

2.5.6 Available bar and bridge designs in Scan & Shape

		Removable						Fixed		
										
		Dolder Bar	Dolder "U" "Egg" Shaped	Ackermann Bar	Round Bar	MP-Clip Bar	Milled Bar Design	Basic Fixed Bar (Wrap Around)	Advanced Fixed Bar	Screw Retained Bridge
coron®	TL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	BL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Screw-Retained abutment	✓	✓	✓	✓	✓	✓	✓	✓	✓
Titanium	TL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	BL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Screw-Retained abutment	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zi	TL	–	–	–	–	–	–	–	–	✓*
	BL	–	–	–	–	–	–	–	–	✓*
	Screw-Retained abutment	–	–	–	–	–	–	–	–	✓*

✓ Available

– Not Available

All available designs will have the option of connecting directly to the implant and/or to the Straumann® Screw-Retained Abutment Line.

*Zirconia Bars only in combination with Variobase

2.6 Tooth borne restorations - Indications and material

2.6.1 Indications

Straumann® CARES® CADCAM offers you a broad array of materials with an extensive range of applications.

MATERIALS[1]		APPLICATIONS[1]										
		Tooth restorations								Specials		
		Inlay / Onlay[2]	Veneer	Partial crown	Coping	Crown	Bridge	Bridge maximum unit	Maximum pontics in the anterior/posterior region	Inlay/Maryland bridge	Telescopic crown	Bar and retaining attachment
RESIN NANO CERAMIC	**Translucency**											
3M™ ESPE™ Lava™ Ultimate Restorative	LT, HT	●	●									
Ceramics	**Translucency**											
n!ce®	LT, HT	●	●	●		●						
IPS e.max® CAD	MO, LT, HT	●	●	●	●	●						
VITA Mark II and TriLuxe	HT	●	●	●		●						
zerion®	LT	○			●	○	●	16	4/2	●	●	○
3M™ ESPE™ Lava™ Plus Zirconia	HT	○			●	●	●	16	4/2	●	●	○
zerion® ML	HT	●	●	●	●	●	●	16	2/2	●	●	○
zerion® UTML	Ultra HT	●	●	●	●	●	●	3	1/1	●	○	
METALS												
ticon®		○			●	○	●	16	4/3	○	●	○
coron®		○			●	○	●	16	4/3	○	●	○
POLYMERS												
polycon® ae		●			○	●	●	16	1/1	●		
polycon® cast		◆			◆	◆	◆	16	4/4	◆	◆	◆

MO: Medium Opacity

LT: Low Translucency

HT: High Translucency

● strongly recommended application

○ possible application

◆ Acrylic burn-out

[1] Application and material availability might differ from country to country

[2] Veneerable inlay/onlay for zerion®, ticon®, coron®, polycon® ae and polycon® cast materials

2.6.2 Materials available via CARES® Scan & Shape

RESIN NANO CERAMIC

3M™ ESPE™ Lava™ Ultimate Restorative
(RNC manufactured by 3M)

- Designed to be durable and reliable
- Brilliant esthetics with long-lasting polish
- High efficiency thanks to easy adjustment and polish
- Tooth-preserving wear and shock-absorbent maintaining functional balance

The 3M™ ESPE™ Lava™ Ultimate Restorative material is available in two levels of translucency:

- High Translucency (HT) available in the following shades: A1, A2, A3, B1
- Low Translucency (LT) available in the following shades: A1, A2, A3, A3.5, B1, C2, D2, Bleach

CERAMICS

3M™ ESPE™ Lava™ Plus High Translucency Zirconia
(high translucent zirconium dioxide manufactured by 3M)

- Outstanding esthetics with true colors* and a plus in translucency
- Beautifully durable
- Incredibly strong and versatile

** available in 16 high translucency shades with an excellent match to the VITA® Classical Shade Guide and 2 high translucency bleach shades*

The 3M™ ESPE™ Lava™ Plus Zirconia material is available in 16 high translucency shades with an excellent match to the VITA® Classical Shade Guide (A1; A2; A3; A3.5; A4; B1; B2; B3; B4; C1; C2; C3; C4; D2; D3 and D4) and 2 high translucency bleach shades (W1 and W3).

zerion®
(low translucent zirconium-dioxide ceramic)

- Broad range of applications for high flexibility
- High-stability frameworks designed for a predictable prosthetic outcome

The Straumann® CARES® zerion® Low Translucency (LT) material is available for frameworks in the following shades: Bleach, Light 1, Light 2, Light 3, Light 4, Medium 1, Medium 2, Medium 3, Dark.

IPS e.max® CAD

(lithium-disilicate glass-ceramic manufactured by Ivoclar Vivadent AG)

- All-ceramic restorations for efficient esthetics
- Versatility for easy handling
- High-strength product designed for reliable restorations

The IPS e.max® CAD material is available in three levels of translucency:

- High Translucency (HT) available in the following shades: A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, BL1, BL2, BL3, BL4
- Low Translucency (LT) available in the following shades: A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, BL1, BL2, BL3, BL4
- Medium Opacity (MO) available in the following shades: MO 0, MO 1, MO 2, MO 3, MO 4

n!ce®

(lithium aluminosilicate ceramic reinforced with lithium disilicate manufactured by Straumann)

- Fully crystallized material for efficient processing
- Excellent material properties for optimal mechanical properties and simple handling
- Available in:
  - High Translucency (HT) in shades A1, A2, A3, B2, B4 and C2
  - Low Translucency (LT) in shades A1, A2, A3, B2, B4 and C2

zerion® UTML and ML

(multi-layered zirconium dioxide)

Outstanding esthetics with multi-layered glass-like translucency

Available in:

- UTML (ultra translucent multi-layered) in shades A1, A2, A3, B1 and Bleach
- ML (high translucent multi-layered) in shades A Light, A Dark and B Light

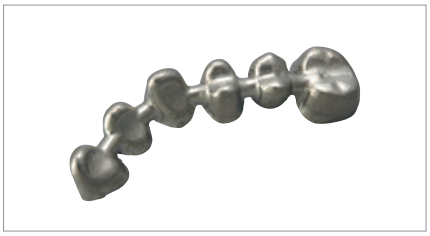
VITA® Mark II and TriLuxe

(feldspar ceramic manufactured by VITA Zahnfabrik H. Rauter GmbH & Co. KG)

- Wide range of shades for natural looking esthetics
- Versatility for easy handling
- High-quality material designed for predictable results

The VITA® Mark II material is available in the following monochromatic shades:
0M1C, 1M1C, 1M2C, 2M1C, 2M2C, 2M3C, 3M1C, 3M2C, 3M3C, 4M2C, A1C, A2C, A3C according to the VITA color system.
The VITA® TriLuxe material is available in the following three multilayer shades:
1M2C, 2M2C, 3M2C according to the VITA color system.

METALS



ticon®

(titanium)

- Milled frameworks designed for high reliability and precision
- Veneering processing comparable to noble casting alloys for easy processing
- Ideal alternative to noble casting alloys

coron®

(cobalt-chromium alloy)

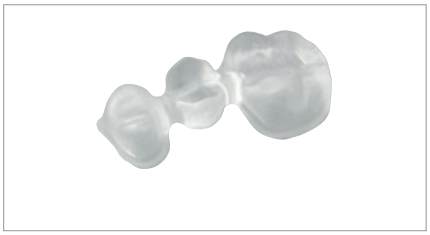
- Milled frameworks for consistent and high quality
- Broad range of applications for high flexibility
- Veneering processing comparable to noble casting alloys for easy processing

POLYMERS

polycon® ae

(PMMA-based acrylate resin)

- Specially suited for full-contoured temporary restorations for high efficiency
- Excellent compound stability for easy handling



polycon® cast

(filler-free acrylate burn-out resin)*

- Specifically for conventional crown and bridge wax-up (can be burned out without residue)

** polycon® cast is not to be inserted into the patient's mouth to check the fit. polycon® cast is not a medical device!*

3 Compatible Solutions - etkon® iDent*

etkon iDent offers titanium customized abutments and Ti-base for compatible solutions with multiple implant systems:

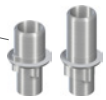
- Nobel Biocare®
- DENTSPLY® Implants
- Biomet 3i®
- Zimmer® Dental

3.1 etkon iDent Customized Abutments

		Screwdriver	Implant Platform (Recommended Torque)				
Compatible with Nobel Biocare®							
AA	NobelReplace® Tapered	UG (UniGrip)		3.5 (35 Ncm)	RP 4.3 (35 Ncm)	WP 5.0 (35 Ncm)	
AB	NobelActive®, NobelReplace® Conical		3 (15 Ncm)	3.5 (35 Ncm)	RP 4.3 (35 Ncm)		
AE	Brånemark®			3.5 (35 Ncm)	RP 4.3 (35 Ncm)	WP 5.1 (35 Ncm)	
Compatible with DENTSPLY® Implants							
AG	ASTRA TECH OsseoSpeed® TX	Hex 1.26	3 (15 Ncm)	3.5/4.0 (25 Ncm)		4.5/5.0 (25 Ncm)	
AH	XIVE® S	Hex 1.2		3.4 (25 Ncm)	3.8 (25 Ncm)	4.5 (25 Ncm)	5.5 (25 Ncm)
Compatible with BIOMET 3i®							
AD	External Hex	Hex 1.26	3.4 (35 Ncm)	4.1 (35 Ncm)	5 (35 Ncm)		
AC	Certain®	Hex 1.2	3.4 (20 Ncm)	4.1 (20 Ncm)	5 (20 Ncm)		
Compatible with Zimmer®							
AF	Tapered Screw-Vent®	Hex 1.26	3.5 (30 Ncm)	4.5 (30 Ncm)	5.7 (30 Ncm)		

etkon iDent products can be used together with the corresponding original manufacturer screwdrivers. etkon® iDent screwdrivers have to be used together with the etkon® iDent torque ratchet.

** etkon® iDent is not available in all countries. Please contact your local sales representative for a detailed overview of available products.*

	Ceramic						Metal	Polymer
	coming soon	coming soon	coming soon	coming soon			coming soon	coming soon
Material	n!ce®	IPS e.max® CAD	zerion® UTML	zerion® ML	3M™ ESPE™ Lava™ Plus Zirconia	zerion®	coron®	polycon® ae
	Lithium-disilicate reinforced with lithium aluminosilicate glass-ceramic available in 12 shades	Lithium disilicate available in 45 shades	Ultra translucent multi-layered zirconium dioxide available in 4 VITA shades and 1 bleach shade	High translucent multi-layered zirconium dioxide available in 3 shades	High translucent Zirconium dioxide available in 16 VITA shades and 2 bleach shades	Zirconium dioxide available in 9 shades	Cobalt chromium	PMMA available in 5 shades
etkon® iDent Ti-base	coming soon 							

Above mentioned materials marked "coming soon" will be available in 2017. Application and material availability may differ from country to country. Please contact your local sales representative for detailed information on the available applications and prosthetic lines. Above restorations are only available with screw channel hole.

3.3 etkon® iDent Scanbody References

Series	Compatibility	Implant Connection Diameter (mm)	Article Number
AA	Nobel Biocare®/ NobelReplace® Tapered	NP 3.5	AA0.00
		RP 4.3	AA0.01
		WP 5.0	AA0.02
		D 6.0	AA0.03
AB	Nobel Biocare®/ NobelActive®, NobelReplace® Conical	D 3.0	AB0.02
		NP 3.5	AB0.00
		RP 4.3/5.0	AB0.01
AE	Nobel Biocare®/ Brånemark®	NP 3.5	AE0.00
		RP 4.1	AE0.01
		WP 5.1	AE0.02
AD	Biomet 3i® / External Hex	D 3.4	AD0.00
		D 4.1	AD0.01
		D 5.0	
AF	Zimmer® Dental / Tapered Screw-Vent®	D 3.5	AF0.00
AG	DENTSPLY® Implants / ASTRA TECH OsseoSpeed® TX	D 3.0	AG0.02
		D 3.5/4.0	AG0.00
		D 4.5/5.0	AG0.01
AH	DENTSPLY® Implants / XIVE® S	D 3.4	AH0.00
		D 3.8	AH0.01
		D 4.5	AH0.02
		D 5.5	
AC	Biomet 3i® / Certain®	D 3.4	AC0.00
		D 4.1	AC0.01
		D 5.0	

Please note that the etkon® iDent portfolio may not be available in all countries. Please contact your local sales representative for a detailed overview of available products.

4 Ordering process for STL file-based workflow*

4.1 Process overview

CARES® Scan & Shape offers you now possibility to order your restorations from open STL files. You can upload your files directly at CARES® Scan & Shape website.

1. CUSTOMER
Place your order and upload your STL files at CARES® Scan & Shape online platform www.straumann.us/scanandshape

2. Straumann
We will design the case according to your specifications. We will contact you once the design is ready for approval.

3. DELIVERY
The restoration is delivered to you.

STL files required:
In order to prepare your restoration we need to receive open STL files of the scan of:

- Lower jaw
- Upper jaw
- Bite
- Diagnostic wax up when you are ordering SRBB restorations
- Gingiva scan for implant-borne restorations.

4.2 Preparation of the model for scan for implant-borne restorations

The Straumann® Scanbodies represent the position and orientation of the respective dental implant or analog in CADCAM scanning procedures. This helps the CADCAM software to correctly align the subsequent CADCAM restorations.

Note:
The Straumann Scanbodies and all components are intended for single use only. Multiple use of a scanbody can lead to inaccurate results. Make sure the stability of the dental implant is sufficient to support the screwing / unscrewing operations of the scanbodies. Scan spray is not required at any time.

** Not available in all the countries.*

4.2.1 Placement of Straumann® Mono Scanbody

Note:

When using the Mono Scanbody on abutment level, the Mono Scanbody is screwed to the Screw-retained Abutment. Make sure the engaging features of the Mono Scanbody are completely aligned with the retention features of the abutment and that the Mono Scanbody is seated properly.

Note:

If a single-tooth restoration is planned, ensure to orient the angled surface of the Mono Scanbody buccally (not adjacent to the approximal teeth). Avoid any contact of the Mono Scanbody to the approximal teeth.

Assembling

Check proper fit of the scanbody in the analog and hand-tighten the self-retaining screw (maximum 15 Ncm). Only use the Straumann® SCS Screwdriver to fix the post in the analog. Check again for proper fit and for any rotational or vertical looseness. If a single-tooth restoration is planned, orient the angled surface of the scanbody buccally (not adjacent to the approximal tooth).

Avoid any contact of the scanbody to the approximal teeth.

4.2.2 Scanning

Make sure to select the right Mono Scanbody according to the software information.

The Mono Scanbody is now ready for scanning. Ensure the correct orientation of the Mono Scanbody in order to avoid deformation or inaccurate scan information regarding the positioning of the implant, analog or abutment. Follow the instructions provided with the scanner.

Do not reuse the Mono Scanbody; it is intended for single use only.

Note:

Intraoral scanning is not available for multi-unit restorations. If multi-unit restorations are required, Mono Scanbodies are used in the dental lab on a dental model.

4.3 Straumann® Mono Scanbody references

Product overview

	Tissue Level – implant level
	Straumann® CARES® Mono Scanbody
NNC	 048.173
NN	 048.167
RN	 048.168
WN	 048.169

	Bone Level – implant level
	Straumann® CARES® Mono Scanbody
NC	 025.2915
RC	 025.4915

	Bone Level – abutment Level (on Straumann® Screw-retained Abutments)
	Straumann® CARES® Mono Scanbody
∅ 3.5 mm	 025.0000
∅ 4.6 mm	 025.0001

4.4 Model free workflow for CARES® Screw-retained bars and bridges (SRBB)

In the order summary you can now choose if you would like to send the stone model to Straumann for accurately measuring the implant interfaces of the SRBB or just the STL file. This applies to all CARES® SRBB sizes and platform combinations.

Straumann **recommends** sending in the stone model for cases containing more than 2 implants, for highest accuracy and consistently fitting SRBBs.

By sending in the stone model you profit from the Straumann **FitCheck Service.**

	Sending the stone model	Model free, sending only design data
Straumann measures the stone model/implant positions with a high precision industrial measuring device for: **• highest accuracy fitting SRBB** **• correction of misplaced scan bodies, that could lead to a potential misfit of the SRBB**	✓	✗
Straumann checks the fit of the produced SRBB on the stone model, before sending the stone model and SRBB to you.	✓	✗
Turnaround time		

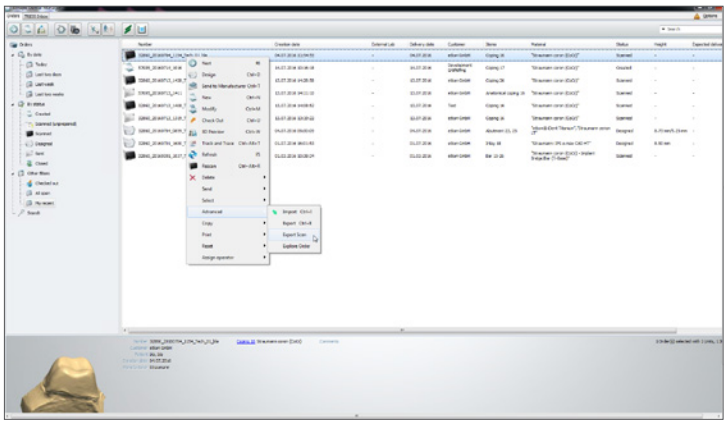
4.5 Using open STL files

1. Files must be in .STL format for both the master model and the opposing model.
2. For implant borne restorations the master model scan must include the Straumann® or etkon® iDent scan body.
3. For proper design of the emergence profile, please ensure the scan of the surrounding tissue is complete. A secondary scan of the model without scan body can be provided to give a reference guide for emergence profile of original scan body scan.
4. **To provide *highest* accuracy we recommend to send in your mastercast for the implant location measuring process.**

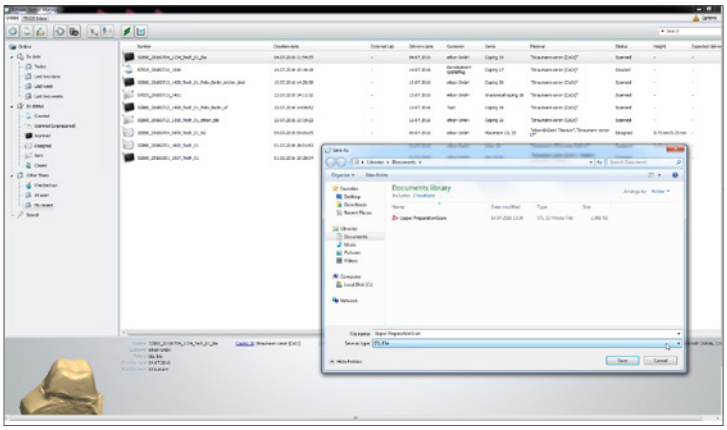
4.6 Exporting STL files

4.6.1 How to export open STL files from 3Shape System

1. Once the scans are complete you will retrieve scan files from within your Dental Manager.
Locate order ➡ right click ➡ Advanced ➡ E xport Scan.



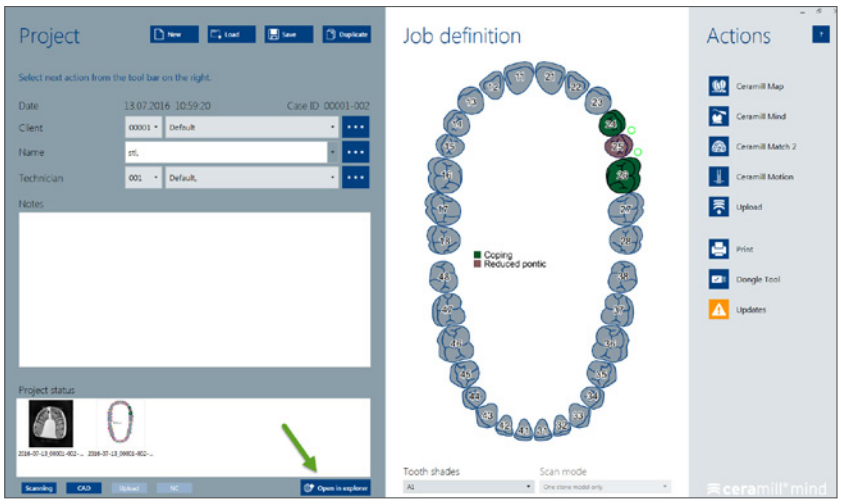
2. When the "Save As" box appears, you will need to change the file type from DCM to STL. For some 3Shape systems this option might not be available. This would require you to contact your 3Shape reseller and ask for the activation of this option.



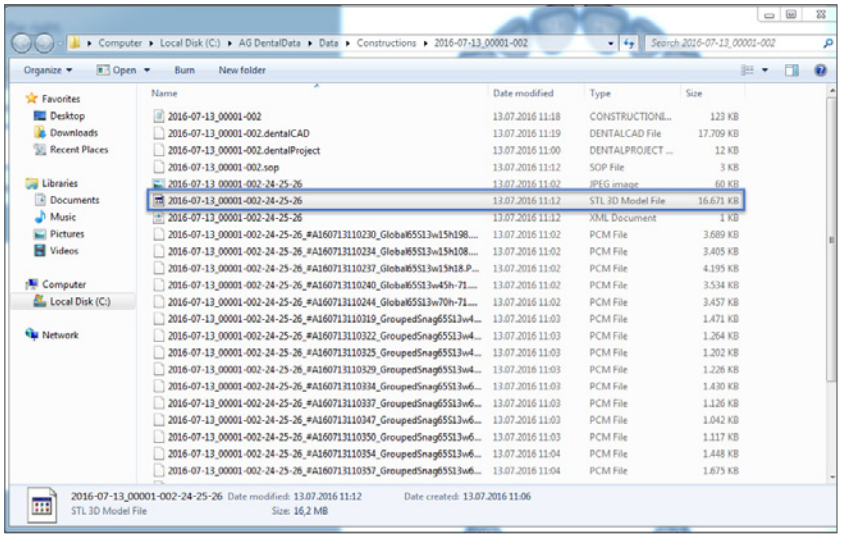
3. Save all files to the desired location. Upload the files at Scan & Shape Online platform.

4.6.2 How to export open STL files from Exocad system

1. Once the scans are completed you will retrieve scans from within your Project. Click on the button Open in explorer.



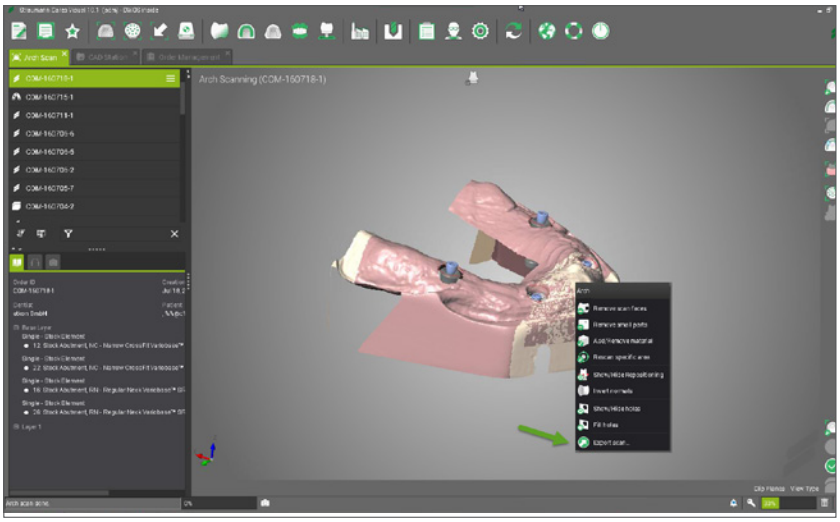
2. The files will be saved in the explorer.



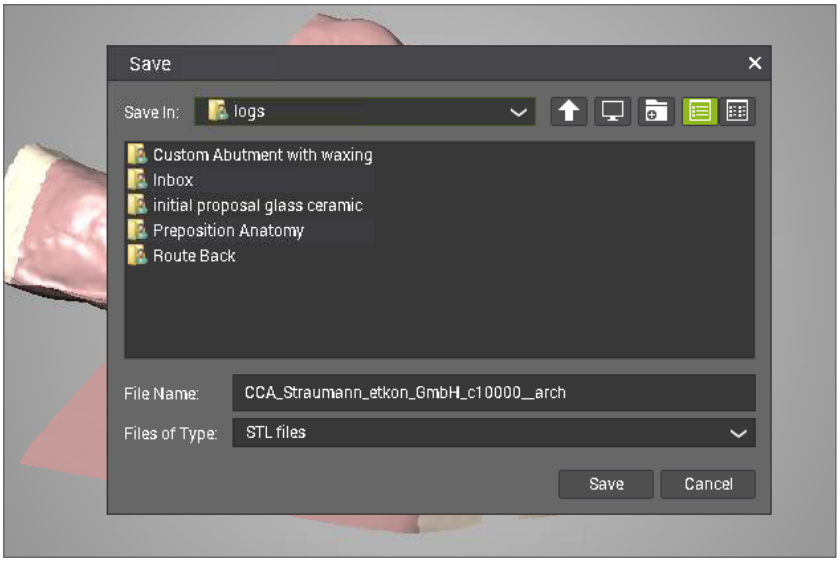
3. You can now upload the files at Scan & Shape online platform.

4.6.3 How to export open STL files from CARES® Visual system

1. Once the scans are complete you will retrieve scan files from within Arch. Right click ➡ Export Scan



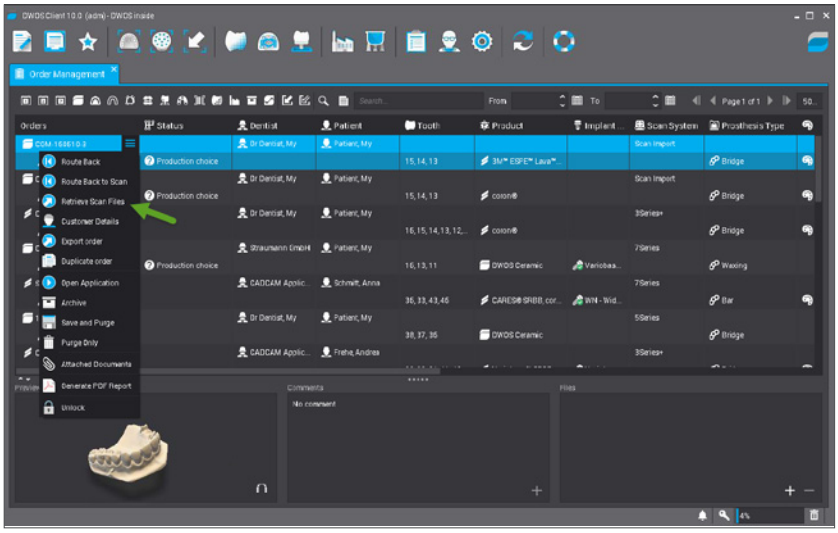
2. Save all files to the desired location.



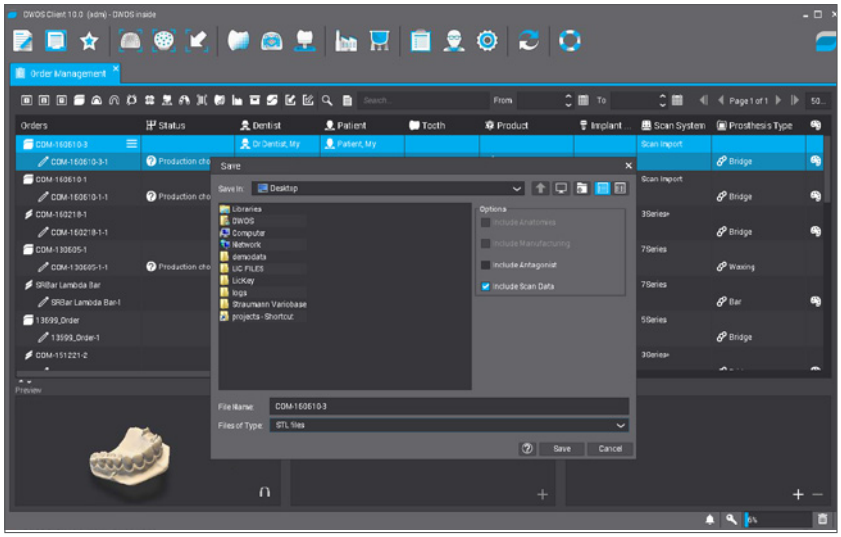
3. You can now upload the files at Scan & Shape online platform.

4.6.4 How to export open STL files from Dental Wings system

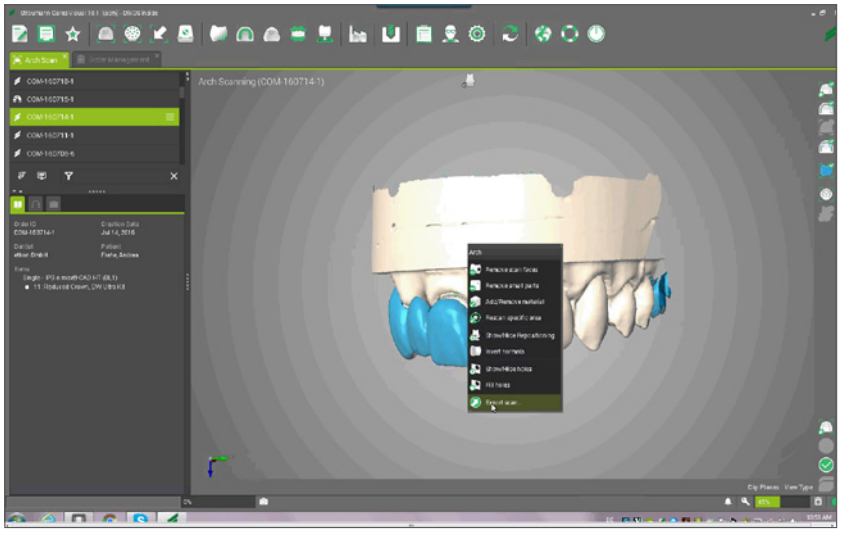
1. Once the scans are complete you will retrieve scan files from within Order Management.
   Locate the order number ➡ Right click ➡ Retrieve Scan Files



2. Save all files to the desired location. Upload the files at Scan & Shape online platform.



Both for Dental Wings and CARES® Visual you can export the scan order as shown in the picture below.



5 Ordering process for models-based workflow*

5.1 Process overview

1. CUSTOMER
Place your order at CARES® Scan & Shape online platform
www.straumann.us/scanandshape

2. SENDING THE MODEL
Pack all items to be sent with order confirmation into a shipping box. The package will be picked up by a courier. You will be given a tracking number.

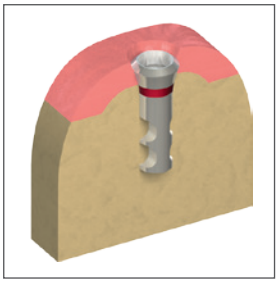
3. Straumann
We will design the case according to your specifications. We will contact you once the design is ready for approval.

4. DELIVERY
The restoration is delivered to you.

5.2 Fabrication of the master cast

Fabricate the master cast using standard methods and type 4 dental stone (ISO 6873). To produce high-quality restorations, the following requirements must be met:

- Only use new, undamaged and original Straumann® implant lab analogs
- The lab analogs must be embedded in the stone and must not move in the model
- A gingival mask should always be used to ensure the emergence profile is optimally contoured. For CARES® SRBB a large range removable gingival mask is necessary to enable Straumann to conduct a fit check
- Use scannable material for the gingival mask



The following implant analogs are available from Straumann:

048.127	NNC Implant Analog
048.124	RN synOcta® Implant Analog
048.171	WN synOcta® Implant Analog
025.2101	NC Implant Analog
025.4101	RC Implant Analog (example shown)

** Not available in all the countries.*

DIAGNOSTIC WAX-UP

If you are ordering abutments for three or more adjacent edentulous spaces, you should provide a diagnostic wax-up to provide additional information about the bucco-lingual dimensions, occlusal height and offset width.

You should construct the wax-up using our Straumann® Wax-up sleeves. Wax-up sleeves are designed for single-use only. If the sleeve is used more than once, accurate reproduction of the position of the abutment with reference to the implant position cannot be guaranteed and the milling results may be inaccurate.

Note:
Before sending the models to Straumann, please verify that the models are articulated in correct occlusion, and a bite registration is provided. To assure quick processing only send models and split cast for the articulator systems below.

ARTICULATOR GUIDE

All cases should be articulated and a bite registration should be provided in order to achieve an accurate and precise result for the patient.

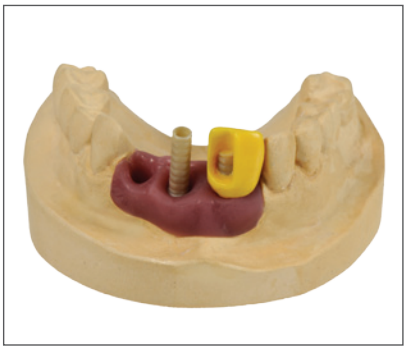
PREFERRED ARTICULATOR

When you articulate your models, please use base plates of one of the following articulators:

PREFERRED SYSTEM

Artex®: with magnetic plates
Denar®: with screw or magnetic plates
Please do not send articulators!

Note:
Please ensure you have used the split-cast technique to construct the models with the baseplates. There is no need to send us your articulator.



5.3 Important Information for ordering CARES® SRBB on Straumann Screw-Retained Abutment

The CARES® SRBB are milled based on their master casts. A precise replication of the oral situation is essential for good-fitting CARES® SRBBs.

For abutment-level CARES® SRBBs, we recommend that you use a master model with abutment analogs, created from an abutment-level clinical impression of the final abutments which have been torqued intraorally to 35 Ncm into the implants.

If abutments are placed subsequently on the master cast, they need to be torqued to the implant analog to 35N cm, like the intraoral abutment on the implant. Master models with hand-tightened abutments do not represent the oral situation and may lead to a restoration with height distortion. The restoration may appear to fit on the model, but may not fit well in the patient's mouth.

5.4 Shipment check list for CARES® SRBBs

- Articulated master casts (working and opposing model) with original Straumann Lab Analog(s) and soft tissue mask.
- Diagnostic wax-up of the final prosthesis.

It is essential that you send us your diagnostic wax-up in order for us to design a well-fitting prosthesis for you.

6 Ordering process from wax up*

6.1 Process overview

1. CUSTOMER
Place your order at CARES® Scan & Shape online platform
www.straumann.us/scanandshape

2. SENDING THE MODEL WITH WAX UP
Pack your wax-up and order confirmation into shipping package. The package will be picked up by a courier. You will be given a tracking number. For multiple restorations please send your wax-up placed on model.

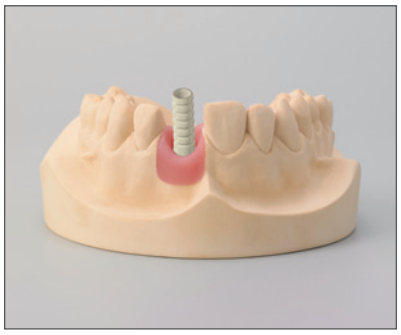
3. Straumann
We will scan your wax-up and mill your restorations according to the design you provided us.

The restoration is delivered to you.

** Please note that not all the materials and restoration types are available with wax up workflow. Not all products available in all countries.*

6.2 Preparation of the wax-up abutment

Step 1:
Prepare a stone model with a soft tissue mask. Insert a wax-up sleeve into the master cast.



The following wax-up sleeves are available:

048.137	NNC Wax-up sleeve
048.088	RN Wax-up sleeve
048.089	WN Wax-up sleeve
025.2903	NC Wax up sleeve
025.4903	RC Wax-up sleeve
048.087	NN Wax-up sleeve

Step 2:
Use the wax-up sleeve to model the shape of the abutment.

Note:
We recommend using scannable wax if possible (e.g. Straumann® CopyCAD wax), otherwise we will apply scan spray to your wax-up abutment. Please cut off the projecting part of the wax-up sleeve. Do not wax below the basal margin of the wax-up sleeve. Wax-up sleeves are designed for single-use only. If the sleeve is used more than once, accurate reproduction of the position of the abutment with reference to the implant position cannot be guaranteed and the milling results may be inaccurate. Your wax-up abutment will not be returned to you.

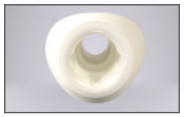
6.3 Abutments for cement-retained restorations

When Straumann® CARES® Abutments are planned for a final bridge restoration, the wax-up abutments must be designed in parallel before sending to Straumann. Our technicians will not manipulate the design of your abutment which we only scan and digitalize for production.

6.4 Creating a wax-up abutments to order Variobase® Abutments

You may order the Variobase® Abutment by sending us a wax-up abutment. We will scan your wax-up abutment as you have designed, to create the digital file for production. You will carry out the bonding of the two components after preparation of the final restoration.

Wax-up abutment using Straumann® Wax-up sleeve



CARES® Variobase® coping (zerion® LT)

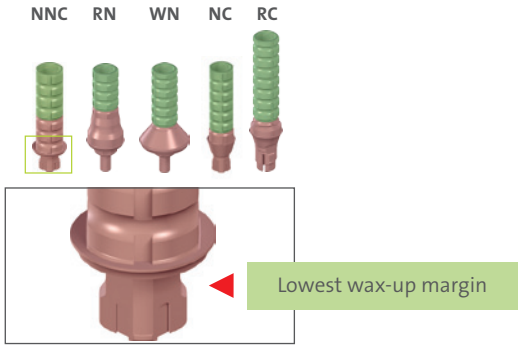
Straumann® Variobase® Abutment

Variobase® Abutment

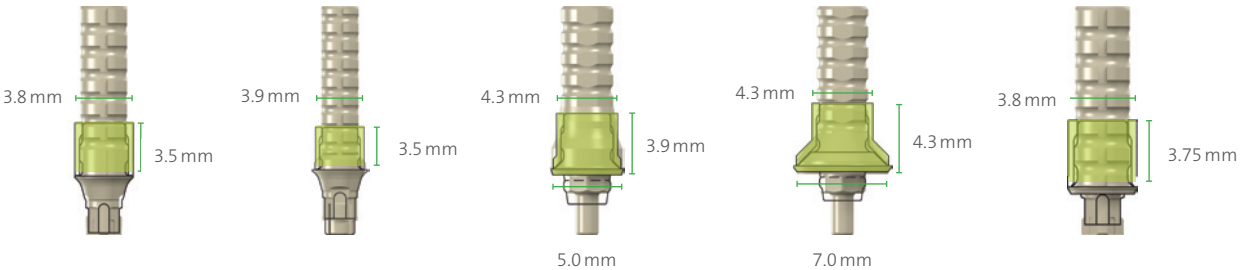
When waxing up your abutment, please ensure that the dimensions of your wax-up abutment are equal to or larger than the minimum dimensions indicated here. The minimum dimensions include the:

- Straumann® Variobase® Abutment
- Minimum wall thickness of the CARES® Variobase® coping (zerion® LT)
- Cement gap of 0.1 mm.

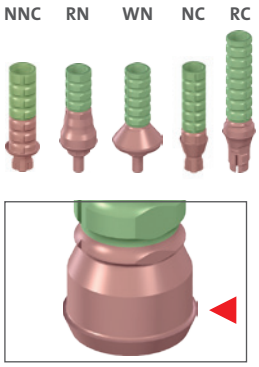
Please measure the height from the lowest wax-up margin to the top of your wax-up abutment.

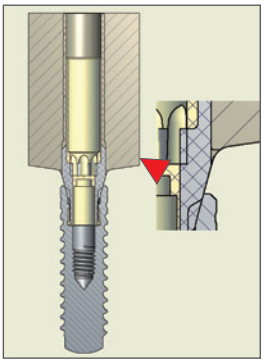


Minimum dimensions required:



6.5 Minimum body of wax-up sleeves



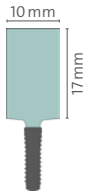
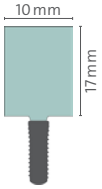
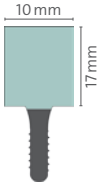
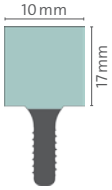


The section above the implant shoulder represents the minimum body and must not be ground.

The upper section of the wax-up sleeve can be reduced (displayed green in these graphics).

Do not wax below the margin of the wax-up sleeve (indicated by red arrow).

6.6 Maximum geometry for production of CARES® Abutments

Implant platform	NC	RC	RN	WN
Wax-up Sleeve art. no.	**025.2903**	**025.4903**	**048.088**	**048.089**
Maximum geometry dimension				
CARES® Abutment, ZrO_2 art. no.	027.2650	027.4650	040.688	
CARES® Abutment, Ti art. no.	027.2620	027.4620	040.689	040.694
CARES® Abutment, TAN art. no.	010.6000	010.6001	010.6002	010.6003

Note:
The angulation of the wax-up must not exceed 30°.

Option A – Full anatomic design

A full anatomical wax-up should also be prepared for optimal esthetic planning. Use the wax-up sleeve to model the shape of the full anatomic temporary abutment.

Option B – Reduced anatomic design

A reduced anatomical wax-up should also be prepared for optimal esthetic planning.

Prepare a silicone key over the full wax-up to determine the optimal shape of the restoration.

Option C – Design of a coping

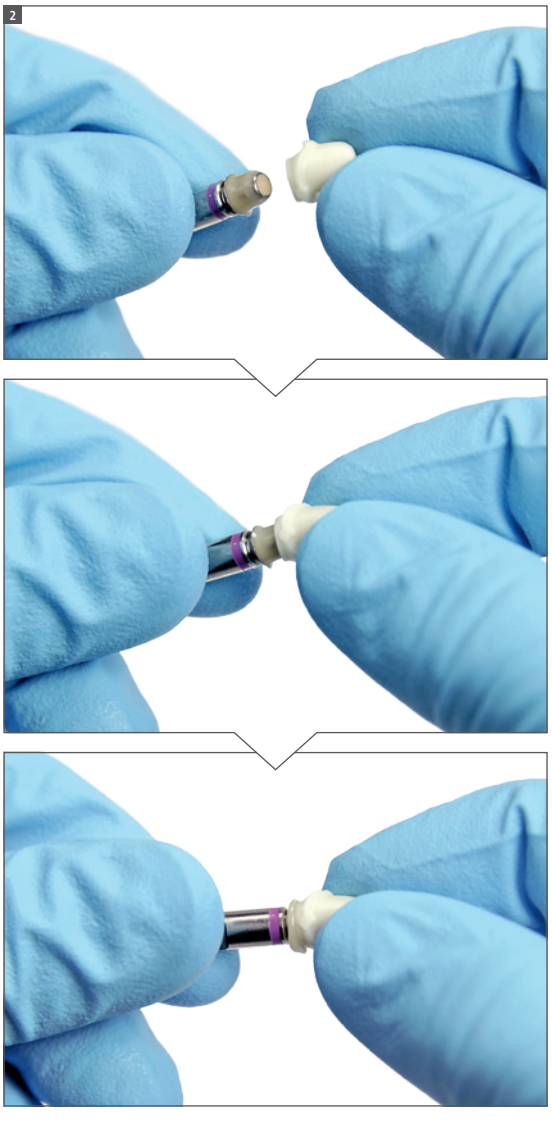
Use the wax-up sleeve to model the shape of the coping.

Check the wax-up with the silicone key.

7 Additional information

7.1 Variobase® cementing instructions - Bonding

Note: the following instructions are only for a CARES® X-Stream™ workflow restoration with a Variobase® and CARES® crowns, bridges or bars ordered with a screw channel hole.



Step 1 – Fixing on master model

Fix the abutments to the implant analogs by hand-tightening the Basal Screws or fix the copings on the abutment analogs by tightening the Occlusal Screws hand-tight. Seal the screw channel with wax to prevent excess cement from flowing into the screw channel.

Note:

- It is not necessary to sandblast the Variobase® to obtain a strong bond.
- To ensure precise seating of the prosthetic restoration on the Variobase®, always bond on the master model.
- For Variobase® for crown, due to the symmetrical nature of the four cams, confirm the position of the crown according to the actual patient anatomy prior to bonding.

Step 2 – Bonding

Apply self-adhesive dental cement [1] on the Variobase®. Follow the cement manufacturer's instructions. Bond the prosthetic restoration to the Variobase®.

Note:

- Immediately remove excess cement from the Variobase® prosthetic component. Polish the lower margin of the prosthetic restoration after the cement has dried.
- Always use a polishing aid to protect the abutment's prosthetic connection.
- Do not fire the abutment after bonding.

[1] *Tested with Panavia™ F2.0 resin cement by Kuraray and a zerion® (zirconium dioxide) coping by Straumann*

7.2 The use of transfer aids for single tooth prosthetics

To ensure correct transfer of the abutment position from the master cast to the patient, an individual index can be fabricated on the master cast using acrylic. The index is secured with support from the adjacent teeth.

Note:
The occlusal screw opening must not be covered with acrylic. Ensure that no acrylic gets into the interior of the abutment, otherwise it might not be possible to loosen the basal screw.

7.3 Insertion (dentist's office)

The final restoration is fixed on the master cast before it is delivered to the doctor's office.

Step 1 – Preparation

- Remove the healing cap or temporary restoration.
- Remove the superstructure from the master cast and unscrew the abutment from the analog.
- Clean and dry the interior of the implant and the abutment thoroughly.
- Sterilization according to IFU for Variobase®

Note:
Always ensure that surfaces of threads and screw heads are clean and that a new screw is used for the final restoration.

Step 2 – Final insertion

Option A – Screw-retained final restoration

- Position the sterilized Straumann® abutment and bonded superstructure in the implant. Tighten the screw to 35 Ncm using the SCS Screwdriver along with the ratchet and the torque control device.
- Close the SCS screw channel with cotton and sealing compound (i.e. gutta percha). This allows for later removal of the Straumann® abutment in case a superstructure replacement is required.

Option B – Cement-retained final restoration

- Position the sterilized Straumann® abutment in the implant. Tighten the screw to 35 Ncm using the SCS Screwdriver along with the ratchet and the torque control device.
- Close the SCS screw channel with cotton and sealing compound (i.e. gutta percha). This allows for later removal of the Straumann® abutment in case a superstructure replacement is required.
- Cement the superstructure to the abutment.
- Remove excess cement.

8 Case processing

8.1 From STL File and Models*

We will send you the computer-aided design by attaching the screenshot(s) from our software by email within 24 hours of receiving your model. Please confirm your approval by email before we proceed with milling your restoration. Delay in approving the design may affect the turnaround time. For orders placed online you will review your design proposal by logging into the CARES® Scan & Shape platform. Click on Order Management and click on the order with the status Waiting for Approval.

If you have any concerns, please reply by email for further information or specify what changes you require so that an amended proposal can be sent to you. For orders placed online, review your 2D or 3D design proposal images and Approve or Disapprove with comments. The CARES® Scan & Shape Service team will address your comments.

8.2 From Wax-Up**

We will proceed immediately to mill the abutment you ordered. This follows the design you have sent us on the wax-up sleeve. We will not send you any further email for approval.

8.3 Shipping Checklist

From STL File*

1. Files must be in .STL format for both the master model and the opposing model.
2. For implant borne restorations the master model scan must include the Straumann® or etkon® iDent Scanbody.
3. For proper design of the emergence profile, please ensure the scan of the surrounding tissue is complete. A secondary scan of the model without scan body can be provided to give a reference guide for emergence profile of original scan body scan.
4. For SRBBs please provide us also with the scan of diagnostic wax up.

From Models

☐ Signed order* form with all required details
☐ Articulated master casts with genuine Straumann® Implant analog(s) (split cast preferred) **Do not send articulator!**
☐ Model with soft tissue mask
☐ Bite registration (recommended)
☐ Diagnostic wax-up (if ordering three or more adjacent abutments)

From wax-up

☐ Signed order form with all required details
☐ Waxed-up abutment, using original Straumann Wax-up sleeves

For SRBB cases

☐ SRBB order form
☐ Diagnostix wax up

TURNAROUND TIMES***

(in-house business days) – Abutment & SRBB Cases

Titanium	Zirconia	SRBB
1	3	5

** STL File Upload and model workflow is not available in all countries.*

*** Please note that not all the materials and restoration types are available with wax up workflow. Not all products available in all countries.*

**** Turnaround times reflect the first business day after receipt of all case information and materials, and are based upon design approvals. Does not include shipping. CARES® X-Stream™ cases may vary.*

Terms and conditions

For general terms and conditions please go to **http://agb.Straumann.com/**
US: https://mystraumann.com/wec/USa6ac50283a944f96bb7bb751996f7b6d/legal/AGB_US_EN.pdf
CA: http://straumann.ca _____

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