Basic information on the Straumann® CARES® Implant-borne prosthetic procedures.
Straumann is the industrial partner of the ITI (International Team for Implantology) in the areas of research, development, and education.
1. Introduction

**Purpose of this guide**
This guide was created for dental technicians working with the Straumann® CARES® Visual software for designing customized abutments, bars and screw-retained bridges.

Additionally, it provides complementary information regarding the conventional working steps in the dental laboratory when working with the Straumann® CARES® CADCAM system, e.g. correct handling of the scanbodies, wax-up sleeves, etc.

Additional brochures are:
- Straumann CARES Guide NAMLIT 1002

All of the described devices are CAD-derived and CAM-manufactured. Straumann® CARES® Visual supports you designing the devices within indication-related conditions.

Instructions provided are insufficient to serve as the only means for processing and placing Straumann® CARES® Implant-borne prosthetics related components. Only those dental professionals thoroughly trained in dental restorations should be processing and placing these devices. Processing and placing Straumann® CARES® Implant-borne prosthetics and related components without proper training may lead to failure of the restoration. Restoration failure may lead to restoration removal or other complications.

Failure to follow the procedures outlined in these instructions may harm the patient and/or lead to any or all of the following complications:

- Aspiration or swallowing of a component
- Breakage
- Infection

**Note**
- Implant-borne superstructures require optimal oral hygiene on the part of the patient. This must be considered by all involved parties when planning and designing the restoration.
- Consult the brochure Basic Information on the Surgical Procedures, NAMLIT 1017 for information on indications and contraindications of Straumann® Dental implants, such as required minimum number of implants, implant type, diameter and loading protocols.
2. General information

CARES® Prosthetics incorporates state-of-the-art technology
The Straumann® CARES® Implant-borne prosthetics provide you with customized solutions for single tooth, multiple tooth gaps and fully edentulous jaws. Different materials and types of restorations are available to give you flexibility in the way you restore the implants.

2.1 RESTORATIVE OPTIONS WITH THE STRAUMANN® CARES® PORTFOLIO

<table>
<thead>
<tr>
<th>Single-tooth restoration</th>
<th>Bridges</th>
<th>Edentulous</th>
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</thead>
<tbody>
<tr>
<td>CARES® Abutment, Ti</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARES® Abutment, TAN*</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>CARES® Abutment, ZrO₂</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>CARES® Screw-retained bridge</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>CARES® Bars*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARES® X-Stream™ solution</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

* Not all products available in all countries
CARES® X-Stream™

The one-step prosthetic solution: 1 scan, 1 design, 1 delivery
CARES® X-Stream™ is an innovative example of an efficient digital workflow, streamlining clinical steps and simplifying long processes, while ensuring high quality prosthetics.

CARES® X-Stream™ provides flexibility and excellent fit of the components in a single tooth prosthetic solution to restore Straumann® implants. With only one scan procedure and one simultaneous and adaptive prosthetic element design, all required prosthetic components (e.g. the abutment and its relevant crown) are manufactured in the Straumann® validated environment and arrive together in one delivery. This optimization of the necessary processing steps reduces turnaround time and related costs considerably.

CARES® X-Stream™ restorative options

<table>
<thead>
<tr>
<th>Full contour crown or coping</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M™ ESPE™ Lava™ Ultimate¹</td>
</tr>
<tr>
<td>zerion® (Zirconium dioxide, available in 13 shades)</td>
</tr>
<tr>
<td>IPS e.max® CAD (lithium-disilicate, available in 45 shades)</td>
</tr>
<tr>
<td>coron® (Cobalt Chromium)</td>
</tr>
<tr>
<td>ticon® (Titanium)</td>
</tr>
<tr>
<td>polycon® ae (PMMA, available in 5 shades)</td>
</tr>
</tbody>
</table>

¹ Not available for the Soft Tissue Level NNC and WN platforms; all copings or crowns are available without screw channel holes

² Not available for the Soft Tissue Level NNC platform; all copings or crowns are available without screw channel holes

³ Only available for Full-contour Crowns

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CARES® Abutment, Zirconium dioxide¹

CARES® Abutment, Titanium¹

Straumann® Variobase™ Abutment
2.2 TECHNICAL REQUIREMENTS

There are many ways to a CARES® Restoration which makes different “combinations” of infrastructure possible. Those combinations are required for designing and ordering Straumann® CARES® Restorations:

Software
The restoration is designed with Straumann® software (e.g. plug-in with Dental Wings Software Version 3.5, 3Shape software version 2.8.8.7, or 3M™ Lava Scan ST with DWOS 7.0 installed), which is engineered to ensure that the restoration dimension complies with the Straumann® manufacturing capabilities.

Scan & Shape Service
If the dental laboratory does not have a Straumann® desktop scanner but wishes to order a Straumann® CARES® Abutment, they may send in their master model or wax-up abutment to the Straumann® CARES® Scan & Shape service.1

Desktop scanner
The patient’s dental impression can be taken with a conventional impression tray. The dental laboratory scans the fabricated master model (preferably with removable segments) with a Straumann® approved desktop scanner (e.g. Straumann® CARES® Scan CS2).

Intraoral scanners (incl. repositionable implant analogs)
The patient situation can be scanned with a Straumann® compatible intraoral scanner (e.g. iTero™ or 3M™ True Definition Scanner*). The data can be imported in the Straumann® software (e.g. Straumann® CARES® Visual version 5.10 or higher).

* Not all products available in all countries
1 The CARES® Scan & Shape service is not available in all countries, please check with your local sales representative for further information. Additional information about the CARES® Scan & Shape service can be found in the brochures “The Way To Straumann® CARES® Abutments” and “Straumann® CARES® Scan & Shape Process Guide”.

CARES® Scan CS2
es1 Scanner
### 2.3 SYSTEM OVERVIEW

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<tr>
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<td>Straumann® Scanbody</td>
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<td>Wax-up sleeve</td>
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*Not all products available in all countries*
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1 For CARES® Abutments, ZrO₂
2 For CARES® Abutments, Ti and TAN; for Straumann® Variobase™ Abutments
3 For CARES® Screw-retained bridges and bars, Ti and coron®
4 Occlusal screw on abutment level for CARES® Screw-retained bridges and bars, Ti and coron®
5 Article numbers of the Straumann® Variobase™ Abutment ordered with CARES® X-Stream™

Accessories screws
Abutments and Screw-retained bridges and bars screws:
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048.3561
025.49061
025.4902
025.49001
025.29261
023.4749
023.4750
023.4760
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023.4763
### 2.4 COMPATIBILITY CHART FOR CADCAM SYSTEMS

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<tr>
<th></th>
<th>es1 Scanner</th>
<th>CARES® Scan CS2</th>
<th>Intraoral scanners¹</th>
<th>Scan &amp; Shape²</th>
<th>DW scanner (plug-in)</th>
<th>3-Shape</th>
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</tbody>
</table>

**Note**

Ensure that the planning is executed with the corresponding software version. Be aware not to mix the Straumann® CARES® Mono Scanbody and Straumann® Scanbody in the same scanning process.

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* Not all products available in all countries
¹ *iTero™ Partner Lab Software 4.2™ / 3M™ True Definition Scanner is in preparation
² CARES® Scan & Shape service is not available in all countries, please check with your local sales representative for further information.
³ SRBB is the abbreviation for Screw-Retained Bridge & Bar
⁴ For future versions available from Q3 2014
Pre-conditions
- The tooth shade has been identified and noted (via color chart or digital measuring device)
- Impression has been taken

Both shade information and impression were sent to the dental lab.

3.1 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 considered:
- Only use new, undamaged and original Straumann® Implant/Abutment analogs.
- The implant 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® SRBB¹ a large range removable gingival mask is necessary to enable Straumann to conduct a fit check.
- Use scannable material for the gingival mask.

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**Important note for CARES® SRBB on Straumann® Screw-retained Abutments**

Please keep in mind that CARES® SRBB are milled based on their master cast. Therefore, a precise replication of the oral situation is essential for a good fit of the CARES® SRBB.

For abutment-level CARES® SRBB, the master cast represents the oral situation. Therefore, it is necessary to use a master model with abutment analogs, created from an oral abutment-level impression of the final abutments, and torqued to 35 Ncm.

Master models with subsequently hand-tightened (< 35 Ncm) abutments may not accurately represent the oral situation and could lead to a poor fitting restoration with height and alignment deviations, although it will fit the model. Therefore, when it is required to place abutments subsequently on the master model, only a torque of 35 Ncm will represent the final oral situation adequately. The subsequently placed abutment should be rotated so that it fits against one end of the implant/abutment interface’s play and the dentist must be informed that the abutment has to be rotated in the same direction during oral placement.

If a SRBB on Screw-retained Abutments is ordered, the stone model with the torqued abutments is required for production.

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¹ SRBB is the abbreviation for Screw-Retained Bridge & Bar.
3.2 PLANNING / WAX-UP SLEEVES

For optimal esthetic planning, especially in the labial region, design a fully anatomic wax-up and confirm the size and position intraorally. For CARES® Abutments, the wax-up can be scanned with the wax-up sleeve holder and ordered (as an alternative to designing it in CARES® Visual).

For CARES® Screw-retained bridges, the wax-up can be scanned and used as a reference when designing the restoration in CARES® Visual.

Wax-up sleeves
Wax-up sleeves are used for waxing-up the abutment.

Note
The wax-up sleeves are designed for single use only. If they are used more than once, an accurate reproduction of the abutment’s position with reference to the implant position cannot be guaranteed and the milling results may be inaccurate.

3.2.1 Straumann® CARES® Wax-up kit
The Straumann® CARES® Wax-up kit includes all wax-up sleeve holders which are required for placing the wax-up sleeves in the desktop scanner. They are required for correct scanning of the customized abutment.

Article number: 019.0063. Straumann® CARES® Wax-up kit (used for Straumann® Abutments)
3.2.2 Step-by-step instructions for use

Insert a wax-up sleeve into the master cast.

A Shortening wax-up sleeves in general
The section above the implant shoulder represents the minimum body, and must not be ground (displayed brown in the graphic below). Only the upper section of the wax-up sleeve can be reduced (displayed green in the graphic below). Do not wax below the basal margin of the wax-up sleeve (red arrow).

Note
Sharp-edged modeling must be avoided.

B Shortening wax-up sleeves for Variobase™ Abutments
The wax-up abutment must have a minimal height due to the Variobase™ Abutment height. The section above the implant shoulder represents the minimum body and must not be ground (displayed brown in the graphic below). Only the upper section of the wax-up sleeve can be reduced (displayed green in the graphic below). Do not wax below the basal margin of the wax-up sleeve (red arrow).
C Waxing up the abutment/screw-retained bridge

Use only scannable wax for an accurate scan (e.g. CopyCAD Wax from Straumann®). If no scannable wax is used, apply scan spray.

Note

To ensure stability, it is recommended to make a frame with modeling resin with low shrinkage when waxing up bridges.

The projecting part of the wax-up sleeve must always be cut off before scanning, otherwise this section will also be scanned and therefore milled.

3.2.3 Maximum geometry for production of CARES® Abutments

<table>
<thead>
<tr>
<th>Implant platform</th>
<th>NC</th>
<th>RC</th>
<th>RN</th>
<th>WN</th>
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<tr>
<td>Wax-up Sleeve art. no.</td>
<td>025.2903</td>
<td>025.4903</td>
<td>048.088</td>
<td>048.089</td>
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<tr>
<td>Maximum geometry dimension</td>
<td>10 mm</td>
<td>17 mm</td>
<td>10 mm</td>
<td>17 mm</td>
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<table>
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<tr>
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<th>027.4650</th>
<th>040.688</th>
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<td>CARES® Abutment, Ti art. no.</td>
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<td>027.4620</td>
<td>040.689</td>
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<tr>
<td>CARES® Abutment, TAN art. no.*</td>
<td>010.6000</td>
<td>010.6001</td>
<td>010.6002</td>
</tr>
</tbody>
</table>

Note

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

Option A: Full anatomic design

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

* Not all products available in all countries
Option B: Reduced anatomic design

A reduced anatomical wax-up should 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.
3.3 STRAUMANN® SCANBODIES

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

Product overview
Straumann® offers two different types of scanbodies which differ in terms of handling and scanner compatibility:

- Straumann® CARES® Mono Scanbody (on implant and abutment level)
- Straumann® Scanbody

Make sure to select the correct Straumann® Scanbody according to the software version (see compatibility chart on page 8).

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 placement and removal operations of the scanbodies. Scan spray is not required at any time.

3.3.1 Straumann® CARES® Mono Scanbody

Product properties and benefits at a glance

Improved handling
- Single component incl. self-retaining screw
- Abutment level on Straumann® Screw-retained abutment

Improved functionality
- Optimized geometry for the Straumann® CARES® Scan CS2 scanner and iTero™ intra-oral scanner
- Optimized system configuration for multi-unit restorations

Well-accepted material
- PEEK for excellent scanning results
Step-by-step instructions for use

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.

3.3.2 Straumann® Scanbody

A Product properties and benefits at a glance

Three-component scanbody
- Contains scan post, scan cap and fixation screw

For single-tooth restorations
- Scanbody geometry to meet requirements of etkon™ es1 and iTero™ scanners.

Well-accepted material
- PEEK for excellent scanning results

B Step-by-step instruction for use

Assembling
Before placing the scanbody in the master cast, ensure that all components are clean and in undamaged condition (no scratches, deformations or discolorations). Check proper fit of the scan post in the analog, insert the fixation screw and hand-tighten (maximum 15 Ncm). Only use the SCS Screwdriver to fix the post in the analog. Check again for proper fit to prevent any rotational or vertical looseness.

Place the scan cap on the scan post. Ensure that the flat parts in the connection area of the scan cap and the scan post are aligned to one another. The flat parts are the anti-rotational security feature between scan cap and scan post. If correctly placed, the cap clicks on the post. Slightly press down with your fingertip to avoid any gaps between cap and post.
3.4 SCANNING WITH THE DESKTOP SCANNER

Please refer to the brochure *Basic Procedure: Straumann® CARES® System, 701098*, for detailed information regarding the scanning process of the wax-up sleeves and the master model.
4. Restorations, designing and finishing

4.1 RESTORATION: CARES® ABUTMENT

Intended use
- Cement-retained crowns
- Cement-retained bridges via mesostructure
- Screw-retained, directly veneerable crowns (CARES® Abutments, ZrO₂ and TAN*)

Material:
- Titanium grade 4
- Titanium-Aluminium-Niobium (TAN*)
- Zirconium dioxide

Contraindication
- Allergies to materials used, which may include any or all of the following: zirconium dioxide (ZrO₂), yttrium oxide Y₂O₃, Aluminum oxide Al₂O₃, Hafnium dioxide HfO₂, titanium (Ti), titanium alloy (Ti₆Al₇Nb titanium, niobium, aluminum or TAN).

Characteristics
- CARES® Abutment, TAN* is proven for direct veneering thanks to its outstanding material characteristics. This is the abutment of choice for screw-retained one piece metal restorations
- CARES® Abutment, ZrO₂ is the abutment of choice in the anterior region and for patients with thin gingiva
- Anatomic emergence profile
- A patient-specific emergence profile supports soft tissue management and an esthetic outcome
- Straumann® Guarantee for Straumann® CARES® Abutments

* Not all products available in all countries
4.1.1 Designing CARES® Workflow

Step 1 – Preparation for CARES® Visual
Follow the preparation requirements according to chapter 3

Step 2 – Designing with CARES® Visual
Design the restoration according the brochure Straumann® CARES® Visual, NAMLIT 1002

4.1.2 Finishing of the Straumann® CARES® Abutment Titanium at the dental lab
Fabricate a Meso abutment made of Titanium Grade 4 for cement-retained restorations.

Cement-retained crown
- Mount the Straumann® CARES® Abtument Titanium on the implant analog
- Use a standard procedure to fabricate the cement-retained single crown
- Veneer the restoration, if necessary, and/or polish the final restoration

Note
Always use a polishing aid to protect the abutment’s prosthetic connection.

Preparation for delivery to the dentist
- Clean the restoration before it is sent to the dentist
- Fix the final restoration hand-tight on the master cast

4.1.3 Finishing of the Straumann® CARES® Abutment TAN* at the dental lab
The anatomically shaped CARES® Abutment TAN is a proven solution for direct veneering in screw-retained solutions.
- Fabricate a screw-retained crown with a ceramic which is compatible with the thermal expansion coefficient of TAN.
- Straumann® CARES® TAN Abutments have a thermal expansion coefficient of $9.9 \times 10^{-6} \text{ K}^{-1}$ within the range of $20 \degree C – 500 \degree C / 68 \degree F – 932 \degree F$.

Note
Particular attention must be given to an even layer thickness of the porcelain veneered on the abutment.

The firing process develops a mechanically stable and biocompatible oxide layer.
The oxide layer must not be removed from the implant abutment connection.

* Not all products available in all countries
Step 1 – Sandblasting
Sandblast only with noble corundum.
- Grain size 120–150 µm and 2 bar pressure
- Blast in angle 45° to object
- Steam clean the surface

Note
Do not sandblast the connection. Protect the connection either with a polishing aid or model analog.

Step 2 – Veneering crown

Important
For this step, the processing instructions of the respective veneering material manufacturer apply.

Note
Any titanium veneering material can be used.

Step 3 – Finishing crown
- Polish the emergence profile between the connection and ceramic veneering.
- Protect the connection with the polishing aid or model analog.

Note
The connection must not be polished.

Step 4 – Preparation for delivery to the dentist
- Clean the restoration before sending to the dentist.
- Screw the final restoration hand tight on the master cast.

* Not all products available in all countries
4.1.4 Finishing of Straumann® CARES® Abutment ZrO₂ at the dental laboratory

Option A: Screw-retained crown

**Straumann® CARES® Ceramic Abutment**
- Fabricate a screw-retained crown with a ceramic that is synchronized to the thermal expansion coefficient of zirconium dioxide.
- Straumann® CARES® Ceramic Abutments made of zirconium dioxide have a thermal expansion coefficient of $10.5 \times 10^{-6}/K$ ($25°C – 500°C, 77°F – 932°F$).

**Note**
Particular attention must be given to an even layer thickness of the porcelain veneered on the abutment.

Option B: Cement-retained crown

- Mount the Straumann® CARES® Ceramic Abutment on the implant analog.
- Use a standard procedure to fabricate the cement-retained single crown.
- Veneer the structure.

**Preparation for delivery to the dentist**
- Clean the restoration before sending to the dentist.
- Fix the final restoration hand tight on the master cast.
4.1.5 Insertion (dentist’s office)

Straumann® CARES® Abutments – Prosthetic procedure

Preparation
- Remove the healing cap or temporary restoration.
- Remove the superstructure from the master cast and/or unscrew the abutment from the analog.
- Clean and dry the interior of the implant and the abutment thoroughly.

Note
Use transfer aids. Never use cement when the abutment is inserted into the implant. Straumann® CARES® Abutments made from zirconium dioxide are not autoclavable and must not be cleaned by steam blasting.

Final insertion Straumann® CARES® Abutments

Option A: Screw-retained crown
- Position the cleaned Straumann® CARES® 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 configuration of the screw with cotton and sealing compound (e.g. gutta-percha). This allows a later removal of the customized abutment in case a crown replacement is required.

This is an example for Straumann® CARES® Abutment ZrO₂ – the same procedure applies for Straumann® CARES® Abutment TAN*.

Option B: Cement-retained crown
- Position the cleaned Straumann® CARES® 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 configuration of the screw with cotton and sealing compound (e.g. gutta-percha). This allows a later removal of the customized abutment in case a crown replacement is required.
- Cement the superstructure to the abutment.
- Remove superfluous cement.

Note
Use only the basal screws provided for the Straumann® CARES® Abutment.

This is an example for Straumann® CARES® Abutment ZrO₂. The same procedure applies for Straumann® CARES® Abutment Titanium.

* Not all products available in all countries
4.2 CARES® X-STREAM™

The one-step prosthetic solution: 1 scan, 1 design, 1 delivery
CARES® X-Stream™ is an innovative example of an efficient digital workflow, streamlining clinical steps and simplifying long processes for single-tooth implant-based prosthetic restorations.

Intended use
- Cement retained crowns for CARES® X-Stream™ restorative options with Straumann® CARES® Abutments
- Screw-retained or cement-retained crowns for CARES® X-Stream™ restorative options with Straumann Variobase™ Abutments

Restorative options
The broad range of restorative options is described in chapter 2.1 (“Restorative options with the Straumann® CARES® portfolio”, see p. 3).

Characteristics
- **Higher productivity** thanks to one design, one order and one delivery of the prosthetic components
- **Increased efficiency** due to the highly precise prosthetics ensuring best fit between components
- **Validated long-term performance** with the original Straumann® implant-abutment connection
4.2.1 Designing CARES® Workflow

Step 1 – PREPARATION for CARES® Visual
Follow the preparation requirements according to chapter 3.

Step 2 – DESIGNING with CARES® Visual
Design the restoration according the brochure Straumann® CARES® Visual, NAMLIT 1002

4.2.2 Finishing

CARES® X-Stream™ workflow with CARES® Abutments
- Unpack the delivered Straumann® CARES® Abutment and the CARES® coping or crown.
- Finalize the CARES® coping or crown when relevant. Note: only cement-retained restorations are possible.
  Please refer to the “Instructions for Use” brochure of the specific CARES® coping or crown material or to the brochure Basic information on Straumann® CARES® Tooth-borne prosthetic procedures, USLIT 461 for the detailed and material-specific processing steps.

CARES® X-Stream workflow with Straumann® Variobase™ Abutment
- Unpack the delivered Straumann® Variobase™ Abutment and the CARES® coping or crown.
- Finalize the CARES® coping or crown when relevant. Note: cement-retained as well as screw-retained restorations are possible.
  Please refer to the “Instructions for Use” brochure of the specific CARES® coping or crown material or to the brochure Basic information on Straumann® CARES® Tooth-borne prosthetic procedures, USLIT 461 for the detailed and material specific processing steps.
  Note: CARES® copings or crowns should only be processed mechanically if absolutely necessary. The “Instructions for Use” of the specific coping or crown apply. CARES® copings or crowns must not be sandblasted.
4.2.3 Bonding

Note
The following instructions are only for a CARES® X-Stream™ workflow restoration with a Straumann® Variobase™ Abutment and CARES® copings or crowns ordered with a screw channel hole.

Fix the Straumann® Variobase™ Abutment to the implant analog with a screw (hand tight). Seal the screw channel with wax.

Note
It is not necessary to sandblast the Straumann® Variobase™ Abutment.

Apply self-adhesive dental cement on the Straumann® Variobase™ Abutment (e.g. Panavia). Follow the cement manufacturer’s instructions as well as the specific cement instructions for the CAD coping or crown. Bond the CARES® coping or crown to the Variobase™ abutment.

Note
Immediately remove excess cement from the abutment and polish the lower margin of the coping after the cement has dried.

- Always use a polishing aid to protect the abutment’s prosthetic connection
- Do not fire the abutment after bonding
4.2.4 The use of transfer aids
For 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.

4.2.5 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.

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 crown 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 crown 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 crown replacement is required.
- Cement the superstructure to the abutment.
- Remove excess cement.
4.3 RESTORATION: CARES® SCREW-RETIRED BRIDGES AND BARS (SRBB)

Intended use
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.

Material
- Titanium grade 4
- Cobalt-chromium alloy (coron®)

Contraindications
- Patients with bruxism, since an overload of the device may occur.
- Allergies or hypersensitivity to chemical ingredients of the following materials used: coron® (cobalt-chromium alloy): cobalt (Co), chromium (Cr), tungsten (W), silicon (Si), manganese (Mn), niobium (Nb), commercially pure titanium grade 4 (Ti), TAN (titanium alloy Ti₆Al₇Nb): titanium (Ti), aluminum (Al), niobium (Nb).

Important note for CARES® SRBB on Straumann® Screw-retained Abutments
Please keep in mind that CARES® SRBB are milled based on their master cast. Therefore, a precise replication of the oral situation is essential for a good fit of the CARES® SRBB.

For abutment-level CARES® SRBB, the master cast represents the oral situation. Therefore, it is necessary to use a master model with abutment analogs, created from an oral abutment-level impression of the final abutments, and torqued to 35 Ncm.

Master models with subsequently hand-tightened (< 35 Ncm) abutments may not accurately represent the oral situation and could lead to a poor fitting restoration with height and alignment deviations, although it will fit the model. Therefore, when it is required to place abutments subsequently on the master model, only a torque of 35 Ncm will represent the final oral situation adequately. The subsequently placed abutment should be rotated so that it fits against one end of the implant/abutment interface’s play and the dentist must be informed that the abutment has to be rotated in the same direction during oral placement.

If a SRBB on Screw-retained Abutments is ordered, the stone model with the torqued abutments is required for production.
Characteristics

Straumann® CARES® SRBB working conditions

<table>
<thead>
<tr>
<th>Implant Level</th>
<th>CARES® SRBB are available on following Straumann® Platforms</th>
<th>Divergence compensation between any two platforms</th>
<th>Screws for Straumann® CARES® SRBB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Straumann® Soft Tissue Level implants</td>
<td>40°</td>
<td>synOcta® Basal screw 048.356</td>
</tr>
<tr>
<td></td>
<td>Regular Neck (RN)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Wide Neck (WN)</td>
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<td></td>
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<tr>
<td></td>
<td>Straumann® Bone Level implants</td>
<td>30°</td>
<td>NC / RC SRBB BL screw 025.2926</td>
</tr>
<tr>
<td></td>
<td>Regular CrossFit® (RC)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Narrow CrossFit® (NC)</td>
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<tr>
<td>Abutment level</td>
<td>Straumann® Screw-retained Abutment</td>
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<tr>
<td></td>
<td>D 4.6 mm</td>
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</tr>
<tr>
<td></td>
<td>D 3.5 mm</td>
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</tbody>
</table>

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

Note
- Straumann® Repositionable Implant Analogs are not intended to be used for Straumann® CARES® SRBB. Please consider the model preparation instructions described in chapter 3.1. Straumann may return the order if the requirements are not fulfilled.
- Always use new abutment/occlusal-screws for patient use.
- The screws delivered together with the CARES® SRBB are meant for patient use. For additional screws in case of loss or for use in the lab, only use the screws mentioned in the chart above.
4.3.1 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 Soft 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

* Not available in all countries
4.3.1.1 Designing: CARES® Workflow

Step 1 – PREPARATION for CARES® Visual
Follow the preparation requirements according chapter 3.

Note
For optimal esthetic planning, especially in the labial region, model a full anatomic wax-up and confirm the size and position intraorally. The wax-up can be scanned and used as reference when designing the restoration in CARES® Visual.

Step 2 – DESIGNING with CARES® Visual
Design the restoration according to the brochure Straumann® CARES® Visual – Step-by-step instructions for crowns and bridges, USLIT 461.

Step 3 – ORDER PROCESS for CARES® SRBB
Order the restoration according to the process described in the brochure Straumann® CARES® Screw-retained bridge and bar: Service and Process.

4.3.1.2 Finishing

Step 1
Delivery of the bridge and screws for patient use from Straumann®:
Use the included patient label for patient records in the laboratory.
The bridge can be directly placed on the master model; no additional processing, grinding or adjustments is needed.

Step 2
Check the tension-free fit on the master cast (e.g. Sheffield test) and also check the occlusal situation with an antagonist model.
Step 3 (optional)
To further check the fit, send the bridge to the dentist for an additional try-on in the patient’s mouth. Make sure the screws used are not damaged. Insert the screws with the SCS Screwdriver. The friction fit secures the screws to the instrument during insertion and ensures safe handling.

Step 4
Prepare and process the bridge according to the instructions from the supplier of the veneering material.

Step 5
Use appropriate veneering techniques for dental technology to veneer the framework. Be sure to follow the instructions for use of the veneering material of your choice, which must be appropriate for the framework material.

Note
Consider anatomical guidelines when veneering. The “freedom in centric” concept should be used for the occlusion.

Step 6
Send the master cast, the bridge together with new screws, the IFU leaflet and patient labels to the restorative dentist.
Step 1
Remove the healing abutment or temporary restoration.

Step 2
Clean and dry the interior of the implants/Screw-retained abutments, the screws and the bridgework thoroughly (cleaning, disinfection and sterilization according to the brochure *Guideline for Cleaning, Disinfection and Sterilization, 152.802*).

Step 3
Check the fit of the bridge before fixing it in the patient’s mouth. Do not attach the bridge if the fit appears to be unsatisfactory (e.g. when performing a Sheffield test).

Step 4
Position the cleaned bridge on the implants/Screw-retained abutments and insert the screws. Tighten the implant screws to 35 Ncm and the occlusal screws of the Screw-retained abutments to 15 Ncm by using the SCS Screwdriver with the ratchet and the torque control device.

Note
The friction fit secures the screws to the instrument during insertion and ensures a safe handling.

Step 5
Close the screw channels with cotton and sealing compound (e.g. gutta-percha or composite). This allows a later removal of the bridge if maintenance is needed.

Step 6
Polish the filling material.

Note
If additional screws are needed, consult the table “CARES® SRBB working conditions” in chapter 4.3 (p. 27) for the article numbers.
4.3.2 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 Soft 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

* Not available in all countries
**Straumann® CARES® Bars, removable prosthetics**

<table>
<thead>
<tr>
<th>Dolder® U-shape Bar</th>
<th>Dolder® Egg-shape Bar</th>
<th>Milled Bar*</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ U-shaped cross-section</td>
<td>▪ Egg-shaped cross-section</td>
<td>▪ Adjustable height and width</td>
</tr>
<tr>
<td>▪ Rigid and stable combination of bar and matrix</td>
<td>▪ Vertical translation and rotation possible</td>
<td>▪ 0°, 4°, 6°, 8° wall taper</td>
</tr>
<tr>
<td>▪ More resistant against mastication forces, compared to attachments on their own</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Ackermann-Bar®**

<table>
<thead>
<tr>
<th>Round Bar</th>
<th>MP-Clip® Bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ Round-section bar</td>
<td>▪ Economical alternative to prefabricated metal matrixes</td>
</tr>
<tr>
<td>▪ 2 rider concepts for space saving mounting</td>
<td>▪ The retention intensity can easily be adjusted by exchanging the retention inserts</td>
</tr>
<tr>
<td>▪ Bar diameter 1.8 mm</td>
<td>▪ Bar diameter 1.8 mm</td>
</tr>
</tbody>
</table>

**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

* Not all products available in all countries
4.3.2.1 CARES® Bars

Bar Positioning
To provide optimal force distribution, position the bar parallel to the occlusal plane and place it physiologically optimal over the alveolar ridge. Consider the path of insertion of the cover denture when designing the bar. To avoid horizontal forces, design the bar parallel to the occlusal plane.1

4.3.2.2 Designing: CARES® Workflow

Step 1 – PREPARATION for CARES® Visual (removable and fixed prosthetics)
Follow the preparation requirements according to chapter 3.

Note
For optimal esthetic planning of the bar, make a set-up of the overdenture in wax and confirm it intraorally. The set-up can be scanned and used as a reference when designing the bar in CARES® Visual.

Step 2 – DESIGNING with CARES® Visual
Design the restoration according to the brochure Straumann® CARES® Visual – Step-by-step instructions for crowns and bridges, USLIT 461.

Step 3 – ORDER PROCESS for CARES® SRBB
Order the restoration according the process described in the brochure Straumann® CARES® Screw-retained bridge and bar, Service and Process.

Step 1
Delivery of the bar and the screws for patient use from Straumann®:
Use the included patient label for patient records on laboratory paperwork. The bar can be placed directly on the master model; no additional processing, grinding or adjustments is needed.

Note
Be advised that changing the shape or the cross-section of the bar for removable prosthetics might have a negative impact on the fit of the matrices on the bars. Do not alter or weaken the connection interface between bar and bar copings.

Step 2
Check the tension-free fit on the master cast (e.g. Sheffield test).

Step 3 (optional)
To further check the tension-free fit, send the bar to the dentist for an additional try-on in the patient’s mouth. Make sure the screws used are not damaged. Insert the screws with the SCS screwdriver. The friction fit secures the screws to the instrument during insertion and ensures safe handling.

Step 4
Fabricate the final prosthesis according the following instructions.

For optimal fit and best performance of the Straumann® CARES® Bar, it is recommended to combine the device only with the corresponding original matrices of the CARES® system (5.8 Bar Male and Female components).
Attach the spacer with the sleeve on the bar and make sure that it fits perfectly.
• Cut the sleeve back according to the height of the bar and block out the space between the sleeve and gingiva as well as the implant caps with wax.
• Finalize the denture according to the standard dental technique. Remove the bar from the denture and strip the spacer from the sleeve. Use the insert positioner to place the retention insert in the metal sleeve.

**Ackermann®, Dolder® and Round Bar matrix**

**Ackermann®**: Use the Ackermann® Bar Matrix A in the posterior and Matrix B in the anterior region.

**Dolder® Bar**: Shorten the matrix according to the length of the bar. To ensure a secure fixation in the denture, the matrix should be at least 5 mm long.

**Ackermann®, Dolder® and Round Bar**: Place the matrix on the bar. Place the according spacer between the bar and the matrix during polymerization.

**Ackermann® and Round Bar**: To prevent the matrices from premature wear and to achieve a consistent insertion axis of the denture, position the matrices in parallel to each other (Fig. 1). Block out the space between matrix/bar and gingiva as well as the implant caps with wax (Fig. 2). Ensure that the lamellae of the matrix is blocked out adequately to enable deflection when the denture is inserted or removed.

**Dolder® Bar**: Block out half of the height of the Dolder® Matrix (Fig. 3).

**Ackermann®, Dolder® and Round Bar**: Finalize the denture according to the standard dental technique.

**Milled Bar**

• Place attachments and female parts on the bar and prepare for polymerization.
• Block out all undercuts between bar and model as well as the implant caps.
• Finalize the denture according to standard dental technique.

**Note**
To avoid unwanted loading of the implants during chewing, always use the according spacer between the bar and the matrix when polymerizing. This also provides the vertical translation of the prosthesis to the bar.

**Varying the retention force of the bar matrix**

Only the appropriate activator/deactivator may be used for activating/deactivating the bar matrix.
• To activate the matrix, press its walls together with the activator.
• To deactivate the matrix, push its walls apart with the deactivator.

*Not all products available in all countries*
Step 5
Send the master cast, the bar, the prosthesis, new screws, the IFU and the patient labels to the restorative dentist.

Note
The IFU must be sent together with the restoration to the dentist.

- CARES® Basic Fixed Bar*
  - Block out all undercuts on the model as well as the implant caps.
  - Apply pink opaque on the sandblasted area of the bar according the suppliers instructions
  - Finalize the denture according to standard dental technique.

* 4.3.2.4 Insertion (dentist’s office)
The final restoration is delivered to the dentist’s office on the master cast together with new screws, IFU and patient labels.

Step 1
Remove the temporary restoration.

Step 2
Clean and dry the interior of the implants/Screw-retained abutments, screws and the bar thoroughly (cleaning, disinfection and sterilization according the brochure Guideline for Cleaning, Disinfection and Sterilization, 152.802).

Step 3
Check the fit of the bar before fixing it in the patient’s mouth. Do not attach the framework if the fit appears to be unsatisfactory (e.g. when performing a Sheffield test).

Step 4
Position the cleaned framework on the implants and insert the patient screws. Tighten the implant screws to 35 Ncm and the Occlusal Screws of the Screw-retained abutments to 15Ncm, using the SCS Screwdriver with the ratchet and the torque control device.

Note
The friction fit secures the screws to the instrument during insertion and ensures a safe handling. If additional screws are needed, consult the table “CARES® SRBB Working conditions” in chapter 4.4 for the article numbers.

- Step 5
  Attach final prosthesis.

* Not all products available in all countries
5. Auxiliaries and instruments

5.1 SCS SCREWDRIVERS

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Article</th>
<th>Dimensions</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>046.400</td>
<td>SCS Screwdriver for ratchet, extra short</td>
<td>Length 15 mm</td>
<td>Cronidur® 30</td>
</tr>
<tr>
<td>046.401</td>
<td>SCS Screwdriver for ratchet, short</td>
<td>Length 21 mm</td>
<td>Cronidur® 30</td>
</tr>
<tr>
<td>046.402</td>
<td>SCS Screwdriver for ratchet, long</td>
<td>Length 27 mm</td>
<td>Cronidur® 30</td>
</tr>
</tbody>
</table>

5.2 RATCHET AND TORQUE CONTROL DEVICE

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Article</th>
<th>Dimensions</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>046.119</td>
<td>Ratchet includes service instrument</td>
<td>Length 84 mm</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>046.049</td>
<td>Torque control device for ratchet</td>
<td>Length 82 mm</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>046.064</td>
<td>Holding key</td>
<td>Length 85 mm</td>
<td>Stainless steel</td>
</tr>
</tbody>
</table>

5.3 POLISHING AIDS AND ANALOG HOLDER

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Article</th>
<th>Dimensions</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>046.245</td>
<td>Polishing protector for RN synOcta® Copings, transocclusal screw-retained</td>
<td>Length 15 mm</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>025.2920</td>
<td>NC Polishing aid</td>
<td>Length 16 mm</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>046.239</td>
<td>Analog holder</td>
<td>Length 105 mm</td>
<td>Al/Steel</td>
</tr>
<tr>
<td>025.4920</td>
<td>RC Polishing aid</td>
<td>Length 16 mm</td>
<td>Stainless steel</td>
</tr>
</tbody>
</table>

5.4 AUXILIARIES FOR BAR MATRICES

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Article</th>
<th>Dimensions</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>046.150</td>
<td>Activator set for all bar matrices, three-part</td>
<td>Length 50 mm</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>046.151</td>
<td>Deactivator for Dolder® Bar matrices, mini</td>
<td>Length 66 mm</td>
<td>Grilon BS/Brass</td>
</tr>
<tr>
<td>046.152</td>
<td>Deactivator for Dolder® Bar matrices, regular</td>
<td>Length 66 mm</td>
<td>Grilon BS/Brass</td>
</tr>
</tbody>
</table>
## 5.5 WAX-UP KITS

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Article</th>
<th>Dimensions</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>019.0063</td>
<td>Straumann® CARES® Wax-up kit contains wax-up sleeve holders for Straumann® Dental restorations on Straumann® Implant</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 5.6 BAR MALE AND FEMALE COMPONENTS

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Article</th>
<th>Dimensions</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>048.414</td>
<td>Dolder® bar matrix includes spacer, regular</td>
<td>Length 25 mm Height 2.75 mm</td>
<td>Elitor®/Brass</td>
</tr>
<tr>
<td>048.413</td>
<td>Dolder® bar matrix includes spacer, mini</td>
<td>Length 25 mm Height 3.5 mm</td>
<td>Elitor®/Brass</td>
</tr>
<tr>
<td>045.025</td>
<td>CADCAM Abutment SFIAnchor® CD20</td>
<td>M2 Thread</td>
<td>Titanium Grade 5</td>
</tr>
<tr>
<td>045.046V2</td>
<td>SFI-Anchor® Basic set 1 x SFI-Anchor® Housing 2 x SFI-Anchor® Retention insert, extra-low 2 x SFI-Anchor® Retention insert, low 2 x SFI-Anchor® Retention insert, medium 2 x SFI-Anchor® Block-out spacer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>045.060</td>
<td>SFI-Anchor® Instrument set 4 x SFI-Anchor® Impression part 4 x SFI-Anchor® Analog 1 x RN SFI-Anchor® Abutment planner 1 x RC SFI-Anchor® Abutment planner 1 x SFI-Anchor® Tool 1 x SFI-Anchor® Screw driver</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zest Bar Anchor</td>
<td>Components available through your local Zest Anchors Representative</td>
<td>M2 thread</td>
</tr>
</tbody>
</table>
6. Appendix

6.1 RELATED DOCUMENTATION

150.926 Instructions for Use for Straumann® CARES® Abutments, ZrO₂
150.927 Instructions for Use for Straumann® CARES® Abutments, Ti
701572 Instructions for Use for Straumann® CARES® Abutments, TAN*
700996 Instructions for Use for Straumann® CARES® Screw-retained bridges and Straumann® CARES® Bars
701593 Instructions for Use for Straumann® Variobase™ Abutments
701149 Instructions for Use for Straumann® CARES® Mono Scanbody
150.771 Instructions for Use for Straumann® Scanbody
701225 Instructions for Use for 3M™ ESPE™ Lava™ Ultimate Restorative
701049 Instructions for Use for zerion® LT
701403 Instructions for Use for zerion® HT
150.772 Instructions for Use for IPS e.max® CAD
701045 Instructions for Use for IPS Empress® CAD
701043 Instructions for Use for VITA Mark II and TriLuxe
701051 Instructions for Use for ticon®
701050 Instructions for Use for coron®
701053 Instructions for Use for polycon® ae
152.802 Guideline for Cleaning, Disinfection and Sterilization
N/A Straumann® CARES® Screw-retained bridge and bar SERVICE AND PROCESS
USLIT 461 Straumann® CARES® Visual, Step-by-step Instructions for Crowns and Bridges
NAMLIT 1002 Straumann® CARES® Guide

All documents as well as further software-related information are available in the Straumann® CARES® Visual software (“Products and Services” tile).

* Not all products available in all countries
7. Important guidelines

Please note
Practitioners must have appropriate knowledge and instruction in the handling of the Straumann CADCAM products or other Straumann products ("Straumann Products") for using the Straumann Products safely and properly in accordance with the instructions for use.

The Straumann Product must be used in accordance with the instructions for use provided by the manufacturer. It is the practitioner’s responsibility to use the device in accordance with these instructions for use and to determine, if the device fits to the individual patient situation.

The Straumann Products are part of an overall concept and must be used only in conjunction with the corresponding original components and instruments distributed by Institut Straumann AG, its ultimate parent company and all affiliates or subsidiaries of such parent company ("Straumann"), except if stated otherwise in this document or in the instructions for use for the respective Straumann Product. If use of products made by third parties is not recommended by Straumann in this document or in the respective instructions for use, any such use will void any warranty or other obligation, express or implied, of Straumann.

Availability
Some of the Straumann Products listed in this document may not be available in all countries.

Caution
In addition to the caution notes in this document, our products must be secured against aspiration when used intraorally.

Validity
Upon publication of this document, all previous versions are superseded.

Documentation
For detailed instructions on the Straumann Products contact your Straumann representative.

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Explanation of the symbols on labels and instruction leaflets

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOT</td>
<td>Batch code</td>
</tr>
<tr>
<td>REF</td>
<td>Catalogue number</td>
</tr>
<tr>
<td>STERIL R</td>
<td>Sterilized using irradiation</td>
</tr>
<tr>
<td></td>
<td>Lower limit of temperature</td>
</tr>
<tr>
<td></td>
<td>Upper limit of temperature</td>
</tr>
<tr>
<td></td>
<td>Temperature limitation</td>
</tr>
<tr>
<td>Rx only</td>
<td>Caution: Federal law restricts this device to sale by or on the order of a dental professional.</td>
</tr>
<tr>
<td></td>
<td>Do not re-use</td>
</tr>
<tr>
<td></td>
<td>Non-sterile</td>
</tr>
<tr>
<td></td>
<td>Caution, consult accompanying documents</td>
</tr>
<tr>
<td></td>
<td>Use by</td>
</tr>
<tr>
<td></td>
<td>Keep away from sunlight</td>
</tr>
</tbody>
</table>

Straumann Products with the CE mark fulfill the requirements of the Medical Devices Directive 93/42 EEC

Consult instructions for use