

## **Straumann®** Bone Level Tapered Implant Ø 2.9 mm SC **Basic Information**



#### About this guide

The Straumann<sup>®</sup> Bone Level Tapered Implant  $\emptyset$  2.9 mm SC, Basic Information (490.073/en) provides dental practitioners and related specialists with the essential steps regarding surgical treatment and procedures for the Straumann<sup>®</sup> Bone Level Tapered Implant.

It is assumed that the user is familiar with placing dental implants. Not all detailed information will be found in this guide. Reference to existing Straumann procedure manuals will be made throughout this document.

Some items of the Straumann<sup>®</sup> Dental Implant System are not available in all countries.

## Content

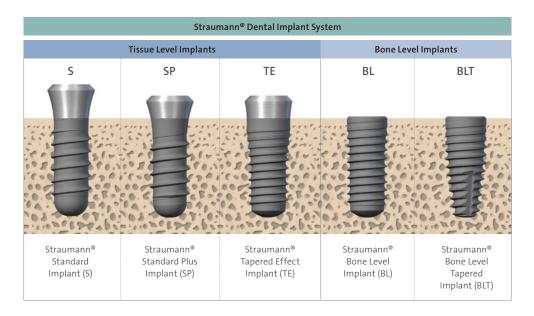
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## 1 The Straumann<sup>®</sup> Bone Level Tapered Implant

The Straumann<sup>®</sup> Dental Implant System offers two different implant lines, the Tissue Level Implants and the Bone Level Implants.

The Bone Level Implants are suitable for bone level treatments in combination with transgingival or subgingival healing. The rough implant surface extends to the top of the implant and the connection is shifted inwards.

The Straumann<sup>®</sup> Bone Level Tapered Implant features the established and clinically proven Straumann<sup>®</sup> Bone Control Design<sup>™</sup> and the CrossFit<sup>®</sup> connection together with its corresponding prosthetic CrossFit<sup>®</sup> components from the Bone Level Implant product portfolio. It has an apically tapered and self-cutting design, making this implant particularly suitable for situations involving soft bone or fresh extraction sockets where primary stability is key.





The Straumann<sup>®</sup> Bone Level Tapered Implant comes with the material Roxolid<sup>®</sup> and the SLActive<sup>®</sup> surface<sup>\*</sup>. A unified color code simplifies identification of instruments and implants for the four available endosteal diameters of  $\emptyset$  2.9 mm,  $\emptyset$  3.3 mm,  $\emptyset$  4.1 mm, and  $\emptyset$  4.8 mm.

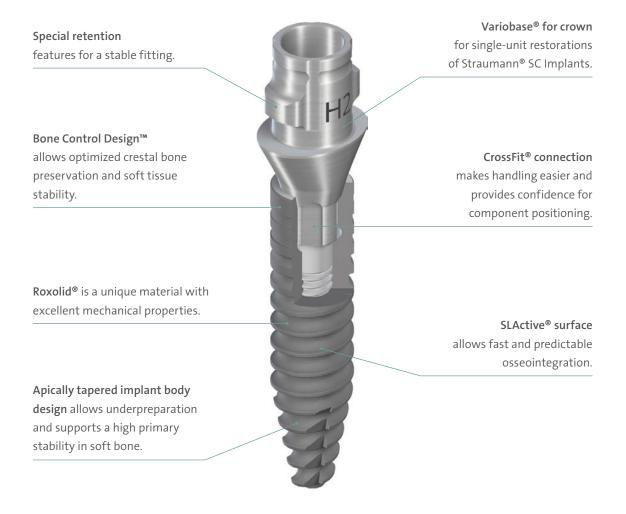
Color coding			
	blue	Endosteal implant diameter 2.9 mm	
•	yellow	Endosteal implant diameter 3.3 mm	
•	red	Endosteal implant diameter 4.1 mm	
	green	Endosteal implant diameter 4.8 mm	

\* Not all products are available in all countries.

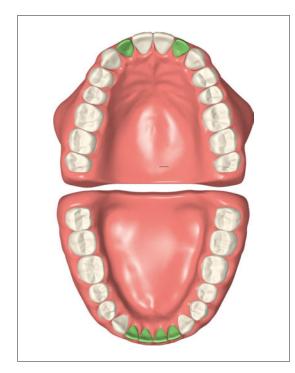
## 2 Implant system features and benefits

The Straumann<sup>®</sup> Bone Level Tapered Implant comes with a number of excellent features designed for convenient handling as well as outstanding clinical performance. The following is to describe the specific features of the smallest diameter of the BLT implant line.

The CrossFit<sup>®</sup> connection of Bone Level Implants applies the know-how and benefits from the Straumann<sup>®</sup> synOcta<sup>®</sup> Morse taper connection to the connection requirements at bone level. The mechanically locking friction fit of the 15° conical-cylindrical CrossFit<sup>®</sup> connection with four internal grooves has excellent long-term stability under all loading conditions and virtually eliminates screw loosening. The Bone Level Tapered Implants  $\emptyset$  2.9 mm feature the Small CrossFit<sup>®</sup> connection, Straumann offers Variobase<sup>®</sup> and CADCAM abutments designed to create the optimal restorative result with a simple and comprehensive portfolio.



## 3 Indications



To obtain more information about indications and contraindications related to each implant, please refer to the corresponding instructions for use. Instructions for use can be found on www.ifu. straumann.com

#### **Distinctive features**

Small diameter implant for narrow interdental spaces and ridges in the anterior region specifically for upper lateral incisors and all lower incisors.

Specific indications for Straumann <sup>®</sup> BLT 2.9 mm SC implants:					
Implant type		Minimal ridge width*	Minimal gap width**	Available lengths	
BLT Ø 2.9 mm SC Roxolid® SLActive®/SLA®		5 mm	5 mm	10-14mm	

\* Minimal ridge width: Minimal orofacial ridge width, rounded off to 0.5 mm \*\* Minimal gap width: Minimal mesial-distal gap width for a single-tooth restoration, between adjacent teeth, rounded off to 0.5 mm

## 4 Planning

#### 4.1 Preoperative planning

The implant is the focal point of the restoration. It provides the basis for planning the surgical procedure. As the BLT Implant  $\emptyset$  2.9 mm SC is indicated mainly for esthetic areas, close communication between the patient, dentist, surgeon and dental technician is imperative for achieving the desired final result.

To establish the topographical situation, the axial orientation, and the choice of implants, we recommend the following:

- Prepare a wax-up/set-up on the previously prepared study cast and/or use an implant planning software like coDiagnostiX<sup>®</sup> in conjunction with the patient's medical image data.
- Define the type of superstructure.

The wax-up/set-up can later be used as the basis for a custom-made drill template and for a temporary restoration.

The implant diameter, implant type, position and number of implants should be selected individually, taking the anatomy and spatial circumstances (e.g. malpositioned or inclined teeth) into account. The measurements given here should be regarded as minimum guidelines. Only when the minimum distances are observed is it possible to design the restoration so that the necessary oral hygiene measures can be carried out.

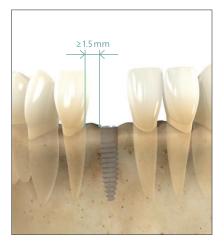
The final hard and soft tissue response is influenced by the position between the implant and the proposed restoration. Therefore, it should be based on the position of the implant-abutment connection. The implant position can be viewed in three dimensions:

- Mesiodistal
- Orofacial
- Coronoapical

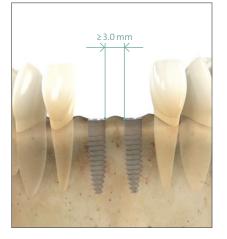
**Note:** The abutments should always be loaded axially. Ideally, the long axis of the implant is aligned with the cusps of the opposing tooth. Extreme cusp formation should be avoided. It can lead to unphysiological loading.

#### 4.1.1 Mesiodistal implant position

The mesiodistal bone availability is an important factor for choosing the implant type and diameter as well as the inter-implant distances in case of multiple implants. The point of reference on the implant for measuring mesiodistal distances is always the shoulder being the most voluminous part of the implant. Note that all distances given in this chapter are rounded off to 0.5 mm. The following basic rules must be applied:



**Rule 1:** Distance to adjacent tooth at bone level: A minimal distance of 1.5 mm from the implant shoulder to the adjacent tooth at bone level (mesial and distal) is recommended.



**Rule 2:** Distance to adjacent implants at bone level: A minimal distance of 3.0 mm between 2 adjacent implant shoulders (mesial and distal) is recommended.

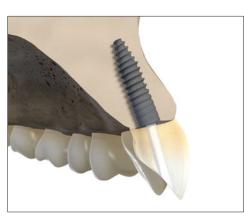
#### 4.1.2 Orofacial implant position

The facial and palatal bone layer must be at least 1 mm thick in order to ensure stable hard and soft tissue conditions. The minimal orofacial ridge widths for individual implant types are given in the indication in chapter 3. Within this limitation, a restoration-driven orofacial implant position and axis should be chosen so that screw-retained restorations are possible.

**Caution:** An augmentation procedure is indicated where the orofacial bone wall is less than 1mm or a layer of bone is missing on one or more sides. This technique should be employed only by dentists who have adequate experience in the use of augmentation procedures.



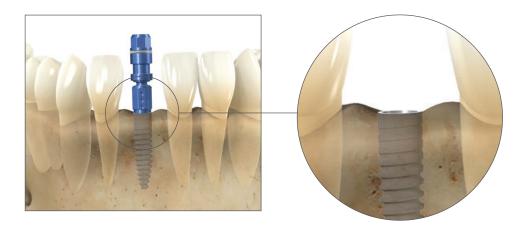
The layer of bone must be at least 1mm thick.



Choose the orofacial implant position and axis so that the screw channel of the screw-retained restorations is located behind the incisal edge.

#### 4.1.3 Coronoapical implant position

Straumann<sup>®</sup> dental implants allow for flexible coronoapical implant positioning, depending on individual anatomy, implant site, the type of restoration planned, and preference. Straumann<sup>®</sup> Bone Level Tapered Implant is best set with the outer rim of the small 45° sloping edge (chamfer) at bone level.



Ideally, in the esthetic region, the implant shoulder should be positioned about 3-4 mm subgingival of the prospective gingival margin. The round markings in the Loxim<sup>®</sup> Transfer Piece indicate the distance to the implant shoulder in 1mm steps.

#### 4.2 Planning aids

The vertical bone availability determines the maximal allowable length of the implant that can be placed. For easier determination of the vertical bone availability, we recommend the use of an X-ray Template (art. no. 025.0003) with X-ray Reference Spheres (art. no. 049.076V4).

#### 4.2.1 Straumann<sup>®</sup> X-ray Templates

The Straumann<sup>®</sup> X-ray Templates are used for measurement and comparison. They also assist the user in selecting the suitable implant type, diameter and length. The X-ray Templates are available for the Straumann<sup>®</sup> Bone Level Implant and can be used for the Straumann<sup>®</sup> Bone Level Tapered Implant as well. Similar to the distortions that occur in X-rays, the implant dimensions are shown on the individual templates with the corresponding distortion factors (1:1 to 1.7:1).

Determining each magnification factor or scale is facilitated by showing the X-ray Reference Sphere on the template. At first compare the size of the X-ray Reference Sphere on the patient's X-ray with the size of the reference sphere on the template. Superimpose the two pictures to find the correct scale. Then, determine the spatial relations around the implant position, and establish the implant length and insertion depth. For more information regarding the preparation of the X-ray Template with the Reference Spheres, please refer to the *Straumann® Dental Implant System, Basic Information* (702084/en).

Warning: For Straumann<sup>®</sup> Bone Level Tapered Implants use only the X-ray Template specific to the Straumann<sup>®</sup> Bone Level Implant.

#### 4.2.2 Straumann<sup>®</sup> Implant Distance Indicator

The Straumann<sup>®</sup> Implant Distance Indicator is available for Straumann<sup>®</sup> Bone Level Implants (art. no. 026.0901) and can be used for the Straumann<sup>®</sup> Bone Level Tapered Implants as well.

The four disks of the Implant Distance Indicator display the shoulder diameters of the Bone Level Implants. The Implant Distance Indicator can be used to check the available space before starting the treatment or intraoperatively to mark the desired implant site.

Additionally, a single disk displaying the shoulder diameter of the  $\emptyset$  2.9 mm implant is available separately. If it is needed to determine the distances in the anterior and reduced space areas, one of the disks delivered with article 026.0901 can be replaced by the BL  $\emptyset$  2.9 mm disk.



#### Implant Distance Indicator for Straumann<sup>®</sup> Bone Level Implants and Bone Level Tapered Implants

- art. no.: 025.0044
- Label: BL Ø 2.9
- Disk diameter: Ø 2.9 mm
- Corresponding implants: Bone Level Tapered Implants Ø 2.9 mm

## 5 Surgical procedure

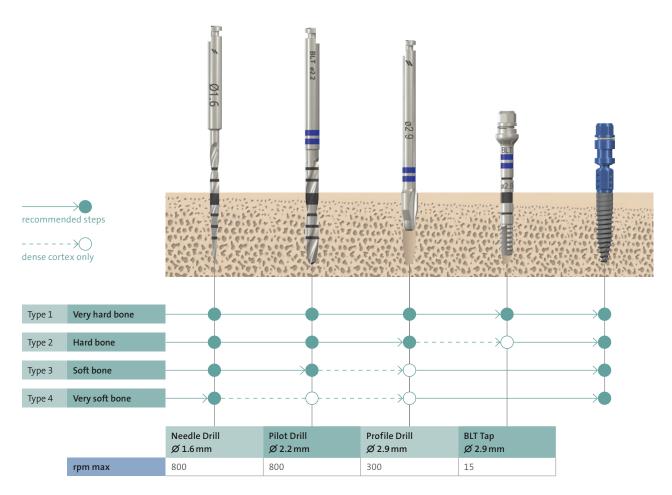
For preparing the implant bed, the Straumann<sup>®</sup> Basic Surgical Cassette is used.

The specific instruments to be used for the Straumann<sup>®</sup> Bone Level Tapered Implants  $\emptyset$  2.9 mm SC are marked with blue colored rings, except for the new Needle Drill which can be used in all protocols.

Depending on the bone density (type 1 = hard bone, type 4 = very soft bone) different drill protocols should be applied for the Straumann<sup>®</sup> Bone Level Tapered Implant. This provides the flexibility to adjust the implant bed preparation to the individual bone quality and anatomical situation.

#### 5.1 Workflow

Straumann<sup>®</sup> Bone Level Tapered Ø 2.9 mm SC



#### 5.2 Implant bed preparation

For preparing the implant bed the Straumann<sup>®</sup> Basic Surgical Cassette is used. For the Straumann<sup>®</sup> Bone Level Tapered Implant  $\emptyset$  2.9 mm SC a specific new instrument – a position indicator mimicking the oval Variobase<sup>®</sup> platform – is introduced in the procedure and it is used only during the basic implant bed preparation.

#### 5.2.1 Position indicator

#### Intended use

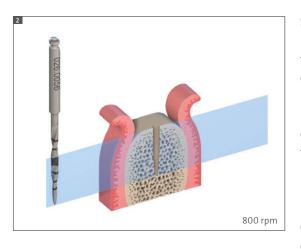
If a restoration with a Variobase<sup>®</sup> Abutment is planned, the Position Indicator is an instrument used to ensure the correct positioning of the implant during implant bed preparation and to indicate the space taken by the abutment platform. It is made of titanium and delivered non-sterile and must be sterilized prior to use.

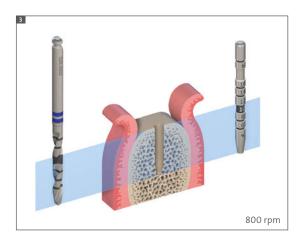
#### Characteristics



After opening the gingiva, the implant bed preparation begins with the preparation of the alveolar ridge (Step 1) and the marking of the implantation site with a Round Bur and/or with a Needle Drill (Step 1), followed by the implant bed preparation with the Needle Drill and BLT Pilot Drill (Step 2 and 3),. The implant bed is widened in the cortical layer with the SC BLT Profile Drill (Step 4) and the threads are precut with the SC BLT Tap (Step 5).







#### Step 1: Prepare alveolar ridge and mark implant position

Carefully reduce and smooth a narrow tapering ridge with a large Round Bur. This will provide a flat bone surface and a sufficiently wide area of bone. Mark the implantation site determined during the implant position planning with the  $\emptyset$  1.4 mm Round Bur and/or the  $\emptyset$  1.6 mm Needle Drill.

**Note:** This step might be not applicable or different depending on the clinical situation (e.g. fresh extraction socket).

**Note:** If the Distance Indicator is used together with the Needle Drill to mark the implant position, make sure not to drill more than 3mm in order to avoid any collision between the Needle Drill and the Distance Indicator.

**Caution:** Handling with care at all times is recommended to avoid needlesticks.

#### Step 2 – Implant axis and depth

For  $\varnothing$  2.9 mm implants, mark the implant axis with the Needle Drill to a maximum depth of 6mm. Use the needle drill to check the axis orientation.

Drill the implant bed to the final depth with the Needle Drill, while correcting unsatisfactory implant axis orientation if necessary. Use the Needle Drill to check the implant axis and preparation depth. For  $\emptyset$  2.9 mm implants in very soft bone (type 4), the implant bed preparation ends here.

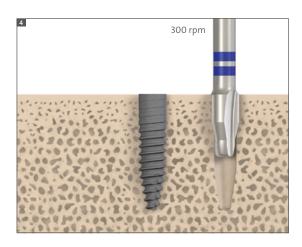
**Caution:** At this point take an X-ray, particularly with vertically reduced bone availability.

#### Step 3 – Widen implant bed to $\emptyset$ 2.2 mm

With the  $\emptyset$  2.2 mm BLT Pilot Drill, drill to a depth of about 6 mm. Insert the  $\emptyset$  2.2 mm Alignment Pin to check for correct implant axis orientation. Use the  $\emptyset$  2.2 mm BLT Pilot Drill to prepare the implant bed to final preparation depth.

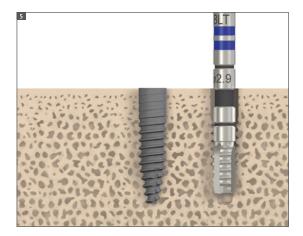
If necessary, correct any unsatisfactory implant axis orientation. Use the  $\varnothing$  2.2 mm Alignment Pin again to check the implant axis and preparation depth.

For  $\varnothing$  2.9 mm implants, also use the Position Indicator to check the available space for the future prosthetic solution, if a restoration with a Variobase<sup>®</sup> Abutment is planned. The implant bed preparation for those implants in soft bone (type 3) ends here.



#### Step 4 – Profile drilling

Shape the coronal part of the implant bed with the Profile Drill according to the diameter in bone types 1 (very hard) and 2 (hard) by using the orientation features as guidelines for vertical position.



#### Step 5 – Tap drilling

Precut the threads with the Tap Drill over the depth of the implant bed preparation only in very hard bone (type 1). For this step, it is recommended to use the Ratchet in order not to overtap the osteotomy.

#### 5.3 Implant placement

A Straumann<sup>®</sup> implant can be placed with the Handpiece or manually with the Ratchet. A maximum speed of 15 rpm is recommended.

**Note:** Straumann<sup>®</sup> Bone Level Tapered Implants must be rotationally oriented for both, Handpiece and Ratchet insertion (see Step 4).

The following instructions show how a Straumann® Bone Level Tapered Implant  $\varnothing$  2.9 mm SC is placed with the Ratchet and/or Handpiece.

For narrow interdental spaces, new adapters with an outer diameter of 4.0 mm will be available for both Ratchet and Handpiece that will fit the Loxim<sup>®</sup> for the Straumann<sup>®</sup> Bone Level Tapered  $\varnothing$  2.9 mm SC.

#### 5.3.1 Transfer Piece

Bone Level Tapered Implants are delivered with the Loxim<sup>®</sup> Transfer Piece, which is connected to the implant with a snap-in mounting.

Features	Benefits
Snap-in mounting	for easy handling without counter-maneuvering
Blue color	for high visibility
Compact dimensions	for easy access
Height markings	for correct implant placement
Pre-determined breaking point	avoids bone overcompression
	1





#### Step 1 – Attach Adapter

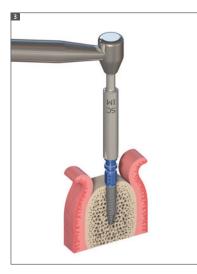
Hold the enclosed part of the implant carrier. Attach the Ratchet Adapter/ Handpiece Adapter to the Loxim<sup>®</sup>. You hear a click when the Adapter is attached correctly.

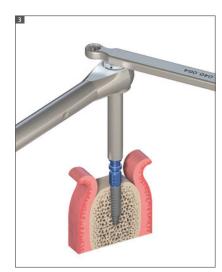
## Step 2 – Remove implant from the carrier

Simultaneously, pull down the implant carrier and lift the implant out of the implant carrier (keep your arms steady).



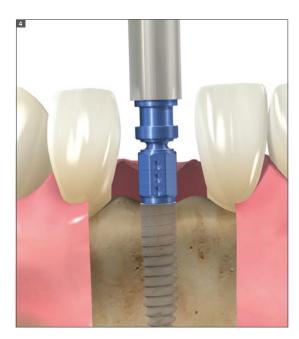






#### Step 3 – Place implant

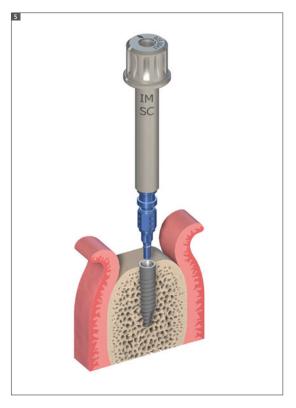
Place the implant with the Ratchet/ Handpiece Adapter into the implant bed. And use the Ratchet and/or Handpiece to move the implant into its final position turning it clockwise.



#### Step 4 – Correct implant orientation

While approaching the final implant position, make sure that the round markings on the blue transfer part are oriented exactly orofacially. This positions the four protrusions of the internal connection for correct\* prosthetic abutment orientation. A quarter turn to the next marking corresponds to a vertical displacement of 0.2 mm.

\* All Healing Abutments and prosthetic components come in an oval shape.



#### Step 5 – Remove instruments with Loxim®

The Loxim<sup>®</sup> can easily be re-inserted to finish an uncompleted implant placement until the implant is fully inserted. If the implant needs to be removed during implantation surgery, the Loxim<sup>®</sup> allows for counterclockwise turns.

After insertion, detach the Loxim® with the Adapter.

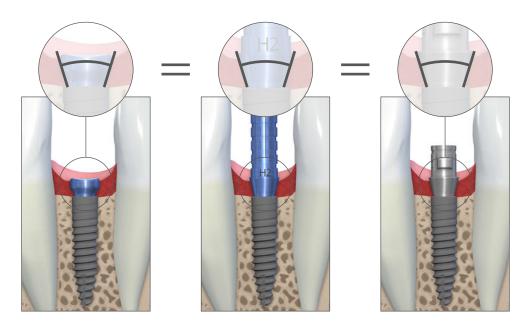
If an insertion torque of over 35 Ncm is achieved before the implant has assumed its final position, check that the implant bed preparation is correct to avoid bone overcompression. The Loxim<sup>®</sup> is provided with a pre-determined breaking point to prevent damage to the inner configuration of the implant, thus ensuring the integrity of the interface for mounting the prosthesis.

After breakage of the Loxim<sup>®</sup> Transfer Piece, the remaining part of the Transfer Piece in the implant must be removed and the implant, if not fitted correctly, has to be unscrewed with a 48h Explantation Device. After that the implant bed is to be re-prepared and a new implant has to be inserted. For further details, please consult the brochure *Guidance for Implant Removal, Basic Information* (702085/en).

#### 5.4 Soft tissue management

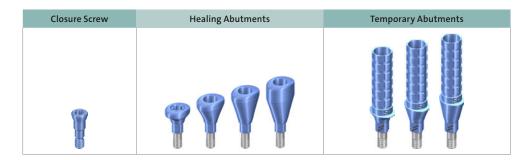
The Straumann® Bone Level Tapered Implant  $\not {\it O}$  2.9 mm SC puts a strong emphasis on esthetic considerations.

It offers tailor-made solutions that allow for natural soft tissue shaping and maintenance for its indications. A versatile portfolio of healing and temporary abutments is available.

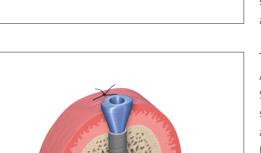


Esthetic results are crucially determined by successful soft tissue management. To optimize the soft tissue management process, various components with Consistent Emergence Profiles<sup>™</sup> are available in the prosthetic portfolio of the Straumann<sup>®</sup> BLT Implant Ø 2.9 mm SC. This applies for all healing abutments, the temporary abutments and the abutments for the final restoration. Thus, the emergence profiles are uniform throughout the treatment process.

#### 5.4.1 Soft tissue management portfolio







#### 5.5 Healing period

After implantation, close the implant – hand-tightened – with a Closure Screw or a Healing Abutment to protect the implant. The surgeon can choose between subgingival and transgingival healing and has all options available for soft tissue management made possible through a set of secondary healing components.

#### Subgingival healing

For subgingival healing (healing under closed mucoperiosteal flap), the use of a Closure Screw is recommended. Submucosal healing is suggested in esthetic indications and for implantations with simultaneous guided bone restoration (GBR) or membrane technique. A second surgical procedure is required for uncovering the implant and insertion of the desired secondary component.

#### Transgingival healing

A versatile portfolio of Healing Abutments is available for the Straumann<sup>®</sup> Bone Level Tapered Implants  $\varnothing$  2.9 mm SC enabling soft-tissue sculpturing during transgingival healing. The healing abutments are oval and are recommended for intermediate use. Place the healing abutment with the longer platform dimension parallel to the buccopalatal direction<sup>\*</sup>. After the soft-tissue healing phase they are replaced with the appropriate temporary or final restoration.

For further information, refer to the *Straumann® Bone Level Prosthetic Procedures, Basic Information* (702061/en).

 $^{\ast}$  This is important to match the prosthetic emergence profile in later stages of treatment.

## 6 Prosthetic procedure



# Temporary Abutment, TAN

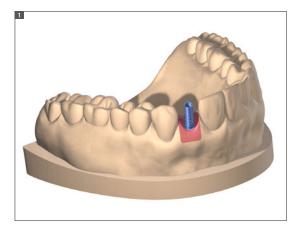
#### 6.1 Impression taking

- Place the Impression Post accurately into the abutment and hand-tighten the Guide Screw.
- Ensure correct positioning of the Impression Posts to ensure proper fit of the restoration. Make sure the engaging features of the impression components are correctly aligned and fully inserted into the implant to avoid any gaps.
- Make perforations in the custom-made impression tray (lightcured resin) according to the individual situation so that the Positioning Screw of the Impression Post sticks out visibly.
- Take the impression using a standard elastomeric impression material (e.g. polyvinyl siloxane or polyether rubber). Uncover the screws before the material is set.
- Once the material is set, loosen the Guide Screws and remove the tray.
- In the dental lab, position and fix an Implant Analog to the impression using the Guide Screw.
- Fabricate the master cast. A gingival mask should always be used to ensure that the emergence profile is optimally contoured.

#### 6.2 Provisional preparation

The SC Temporary Abutments offer the following characteristics:

- Narrow profile for narrow interdental spaces
- Reliable and precise fit
- High stability due to titanium alloy (TAN) material
- Small CrossFit<sup>®</sup> (SC) connection for engaging abutments



#### 6.3 Lab procedure

#### Step 1 – Preparation

- Mount the Temporary Abutment on the master cast and mark the appropriate heights according to the individual situation.
- Shorten the abutment as necessary, sandblast and coat with opaquer to prevent from showing through.
- Screw the Temporary Abutment onto the Implant Analog (handtight) and temporarily seal the screw channels (e.g. with cotton)



#### Step 2 – Creating the provisional

- Use a standard technique to fabricate the provisional.
- The retention elements ensure proper mechanical bonding of the veneering material to the Temporary Abutment.
- Remove excess acrylic, re-open the screw channel and finish the temporary restoration.

#### Step 3 – Inserting the provisional

See Chair-side procedure Step 3.

#### 6.4 Chair-side procedure

#### Step 1 – Preparation

- Mount the Temporary Abutment in patient's mouth.
- Mark the appropriate heights according to the individual situation.
- Remove the abutment from the patient's mouth.
- Prepare the abutment as explained in Step 1 of the lab procedure.

#### Step 2 – Creating the provisional

- Use a standard technique to fabricate the provisional (e.g. prefabricated crown form or vacuum-formed
- sheet technique).
- Remove excess acrylic, re-open the screw channel and finish the temporary restoration.

#### Step 3 – Inserting the provisional

- Clean and disinfect the polished temporary restoration, place it on the implants and tighten the screw between 15 Ncm and 35 Ncm (depending on implant stability) using the SCS Screwdriver along with the Ratchet and the Torque Control Device.
- Cover the screw head with absorbent cotton or gutta-percha and seal the screw channel with temporary veneering material (e.g. composite).

#### Note

- Do not use for longer than 180 days.
- Place temporary restorations out of occlusion.
- The Temporary Abutment can be shortened vertically no more than 6 mm with usual tools and technique.
- The devices are provided non-sterile and are for single use only.
- The abutment must be secured against aspiration.
- Refer to the veneer material manufacturer for information regarding the disinfectants that can be used.
- The abutments can be processed with cleaning/disinfecting agents such as Ethanol, Tego Cid 2%, Micro 10 + 4%, Cidex OPA pure and Grotanat 2%.
- The abutment can be steam-sterilized (134 °C/273 °F for 5 minutes).

#### 6.5 Final restoration

#### Digital procedure

Straumann<sup>®</sup> CARES<sup>®</sup> CADCAM offers customized patient solutions for cement-retained crowns.

Available in titanium alloy (TAN) with a superstructure of a variety of materials such as zerion<sup>®</sup>, coron<sup>®</sup> and polycon<sup>®</sup>, etc.

For further information regarding Straumann<sup>®</sup> CARES<sup>®</sup> Implant-borne prosthetics, please see the brochure *Straumann<sup>®</sup> CARES<sup>®</sup> Implant-borne prosthetics, Basic Information* (702165/en).

#### **Conventional procedure**

The SC Variobase<sup>®</sup> has an oval platform shape in order to better fit in reduced interdental spaces. It comes in 3 different gingiva heights to offer more prosthetic flexibility.

For more information on the Straumann<sup>®</sup> Variobase<sup>®</sup>, please refer to the brochure *Straumann<sup>®</sup> Variobase<sup>®</sup>*, *Basic Information* (702087/en).



#### Step 1 – Fabricating the master cast and wax-up

- Fabricate the master cast including a gingiva mask with the corresponding Implant Analog.
- For optimal esthetic planning, model a full anatomical wax-up.

#### Step 2 – Fabricating the crown

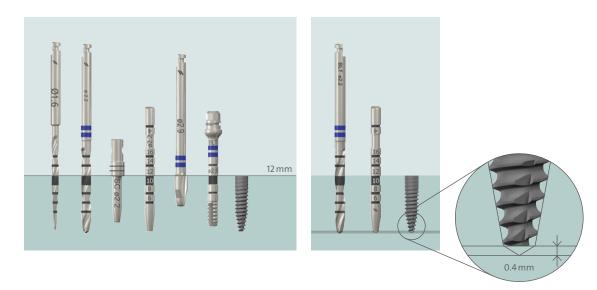
- Select the Burn-out Coping and place it on the Variobase<sup>®</sup>.
- Fabricate the superstructure using standard modeling methods.
- Cast the framework using the standard casting methods.
- Adjust the framework so that it can be attached to the Variobase<sup>®</sup> and into the Analog.
- Veneer the superstructure.

## 7 Instruments

#### 7.1 Depth marks on Straumann<sup>®</sup> instruments

Straumann<sup>®</sup> instruments have depth marks in 2 mm intervals that correspond to the available implant lengths. The bold mark on drills represents 10 mm and 12 mm, whereas the lower edge of the mark corresponds to 10 mm and the upper edge to 12 mm.

**Warning:** Due to the function and design of the drills, the drill tip is 0.4 mm longer than the insertion depth of the implant.



#### 7.2 Cleaning and care of instruments

Careful treatment of all instruments is of the utmost importance. Even slight damage for instance to the drill tips (e.g., when the drills are "thrown" into a bowl of water) impairs cutting performance and thus the clinical result. With correct and careful care, the high quality of the material and excellent workmanship ensure that the rotating instruments can be used repeatedly (up to a maximum of ten times is recommended).

Instruments with high cutting performance are a basic requirement for successful implantation. The following should therefore be observed:

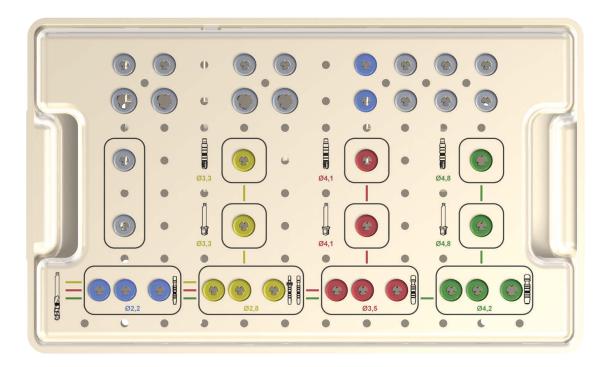
- Never allow instruments to land on their tips.
- Use each instrument only for its intended purpose.
- Never let surgical residues (blood, secretion, tissue residues) dry on an instrument; clean immediately after surgery.

- Thoroughly clean off incrustations with soft brushes only. Disassemble instruments, clean cavities especially well.
- Never disinfect, clean (also ultrasound) or sterilize instruments made of different materials together.
- Use only cleaning agents and disinfectants intended for the material and follow the instructions for use of the manufacturer.
- Rinse disinfectants and cleaning agents very thoroughly with water.
- Never leave or store instruments moist or wet.

For more detailed information, please see the brochure *Straumann® Surgical and Prosthetic Instruments - Care and maintenance* (702000/en).

#### 7.3 Straumann<sup>®</sup> Basic Surgical Cassette

The Basic Surgical Cassette is used for the secure storage and sterilization of the surgical instruments and auxiliary instruments of the Straumann<sup>®</sup> Dental Implant System. The Basic Surgical Cassette is made of a highly shock-proof thermoplastic, which has been proven for years in the medical area and is suitable for frequent sterilization in the autoclave.



## 8 Product reference list

Art. No.	Article		
021.0010	BLT Ø 2.9 mm SC, SLActive® 10 mm, Roxolid®, Loxim®		
021.0012	BLT Ø 2.9 mm SC, SLActive® 12 mm, Roxolid®, Loxim®		
021.0014	BLT Ø 2.9 mm SC, SLActive® 14 mm, Roxolid®, Loxim®		
021.0110	BLT Ø 2.9 mm SC, SLA® 10 mm, Roxolid®, Loxim®		
021.0112	BLT Ø 2.9 mm SC, SLA® 12 mm, Roxolid®, Loxim®		
021.0114	BLT Ø 2.9 mm SC, SLA® 14 mm, Roxolid®, Loxim®		
024.00065	SC Closure Cap, Ø 2.4 mm, H 0.5 mm, Ti		
024.00075	SC Healing Abutment, conical, oval, H 2 mm, Ti		
024.00085	SC Healing Abutment, conical, oval, H 3.5 mm, Ti		
024.00095	SC Healing Abutment, conical, oval, H 5 mm, Ti		
024.00105	SC Healing Abutment, conical, oval, H 6.5 mm, Ti		
025.0020	SC Impression Post Closed Tray with 1 guide screw & 2 caps, L 19 mm, TAN/POM		
025.0021	SC Impression Post Open Tray, short		
025.0022	SC Impression Post for open tray, with guide screw, L 24 mm, TAN		
025.0023	SC Implant Analog, L 11 mm, TAN		
025.0024	SC Repositionable Implant Analog, L 17 mm, stainless steel		
025.0031	SC Basal Screw B, L 7 mm, TAN		
024.0011	SC Temporary Abutment, crown, oval, GH 1 mm, TAN		
024.0015	SC Temporary Abutment, crown, oval, GH 2 mm, TAN		
024.0016	SC Temporary Abutment, crown, oval, GH 3 mm, TAN		
022.0038	SC Variobase®, with screw, oval, GH 1 mm, TAN		
022.0039	SC Variobase®, with screw, oval, GH 2 mm, TAN		
022.0040	SC Variobase®, with screw, oval, GH 3 mm, TAN		
023.0011	SC Burn-out Coping, for Variobase®, POM		
023.0011V4	SC Burn-out Coping, for Variobase®, POM, packaging unit 4 pieces		
025.0029	SC Polishing Aid, L 16 mm, stainless steel		
025.0025	SC CARES® Mono Scanbody, Ø 3.5 mm, H 10 mm, PEEK/TAN		

Art. No.		Article		
026.0054		Needle Drill, short, $\varnothing$ 1.6 mm, L 33 mm, stainless steel		
026.0056		Needle Drill, long, Ø 1.6 mm, L 41 mm, stainless steel		
026.0058	€))) oc oz.z	SC Position Indicator, oval, L 10 mm, Ti		
026.0061	<b>U</b> J 028.0061 <b>))</b>	BLT Profile Drill, short, Ø 2.9 mm, L 25 mm, stainless steel		
026.0062		BLT Profile Drill, long, Ø 2.9 mm, L 33 mm, stainless steel		
026.0063		BLT Tap, $\varnothing$ 2.9 mm, L 25 mm, stainless steel/TAN		
026.0073	- Managarian Si / 2	Release Aid S for Loxim®		
026.0066		SC Guiding Cylinder, for Ø 2.9 mm, stainless steel		
026.0068	un ≠ 026.0068 sent sent sent sent sent sent sent sent	Explantation Drill, medium, for Ø 2.9 mm, L 37.5 mm, stainless steel		
026.0069		Explantation Drill, long, for $\varnothing$ 2.9 mm, L 40 mm, stainless steel		
026.0072		48h Explantation Device, for Ø 2.9 mm, L 29.7 mm, stainless steel		
025.0042	₩ <u>₹</u>	Adapter for Handpiece, long, L 34 mm, stainless steel		
025.0043	E S	Adapter for Ratchet, long, L 28 mm, stainless steel		
025.0044	0L 02.0	Implant Distance Indicator Additional Component, for BLT Ø 2.9 mm, Ti		

### Notes


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