



Straumann® TLX Implant System Basic Information

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About this guide

This surgical and prosthetic procedure describes the steps required for implantation and restoration of the Straumann® TLX Implant System. The Straumann® TLX Implant System is recommended for use only by clinicians with advanced surgical skills. 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.

1. The Straumann® TLX Implant System

The Straumann® TLX Implant System offers fully tapered tissue level implants (TLX) that are designed for high primary stability and immediate treatment procedures.

The Straumann® TLX Implants are made from the material Roxolid® with the SLActive® surface and are available in the maximum endosteal outer diameters Ø3.75 mm, Ø4.5 mm, Ø5.5 mm and Ø6.5 mm, with length options from 6 mm to 18 mm for the maximum endosteal outer diameter Ø3.75 mm and Ø4.5 mm, and 6 mm to 12 mm for diameters Ø5.5 mm and Ø6.5 mm. A unified color code simplifies identification of instruments and implants for the available maximum endosteal outer diameters. The Straumann® TLX implants are available with either a 1.8 mm shoulder (Standard Plus - SP) or with a 2.8 mm shoulder (Standard - S).

The Straumann® TLX prosthetic components are identified with NT (Narrow TorcFit™/one dot), RT (Regular TorcFit™/two dots) and WT (Wide TorcFit™/three dots), corresponding to the implant shoulder diameters of Ø3.5 mm, Ø4.8 mm and Ø6.5 mm respectively.

	Straumann® TLX SP Implant Ø3.75 mm		Straumann® TLX SP Implant Ø4.5 mm		Straumann® TLX SP Implant Ø5.5 mm		Straumann® TLX SP Implant Ø6.5 mm	
Shoulder Height	Standard Plus - Implant shoulder 1.8mm							
Color code	 (red)		 (green)		 (brown)		 (black)	
Prosthetic Base	NT	RT	NT	RT	WT		WT	
Connection	TorcFit™							
Image								
SLActive®								
Available lengths	6 mm	035.3006S	035.3106S	035.3406S	035.3506S	035.3706S	035.3806S	
	8 mm	035.3008S	035.3108S	035.3408S	035.3508S	035.3708S	035.3808S	
	10 mm	035.3010S	035.3110S	035.3410S	035.3510S	035.3710S	035.3810S	
	12 mm	035.3012S	035.3112S	035.3412S	035.3512S	035.3712S	035.3812S	
	14 mm	035.3014S	035.3114S	035.3414S	035.3514S		–	
	16 mm	035.3016S	035.3116S	035.3416S	035.3516S		–	
	18 mm	035.3018S	035.3118S	035.3418S	035.3518S		–	
SLA								
Available lengths	6 mm	035.2006S	035.2106S	035.2406S	035.2506S	035.2706S	035.2806S	
	8 mm	035.2008S	035.2108S	035.2408S	035.2508S	035.2708S	035.2808S	
	10 mm	035.2010S	035.2110S	035.2410S	035.2510S	035.2710S	035.2810S	
	12 mm	035.2012S	035.2112S	035.2412S	035.2512S	035.2712S	035.2812S	
	14 mm	035.2014S	035.2114S	035.2414S	035.2514S		–	
	16 mm	035.2016S	035.2116S	035.2416S	035.2516S		–	
	18 mm	035.2018S	035.2118S	035.2418S	035.2518S		–	

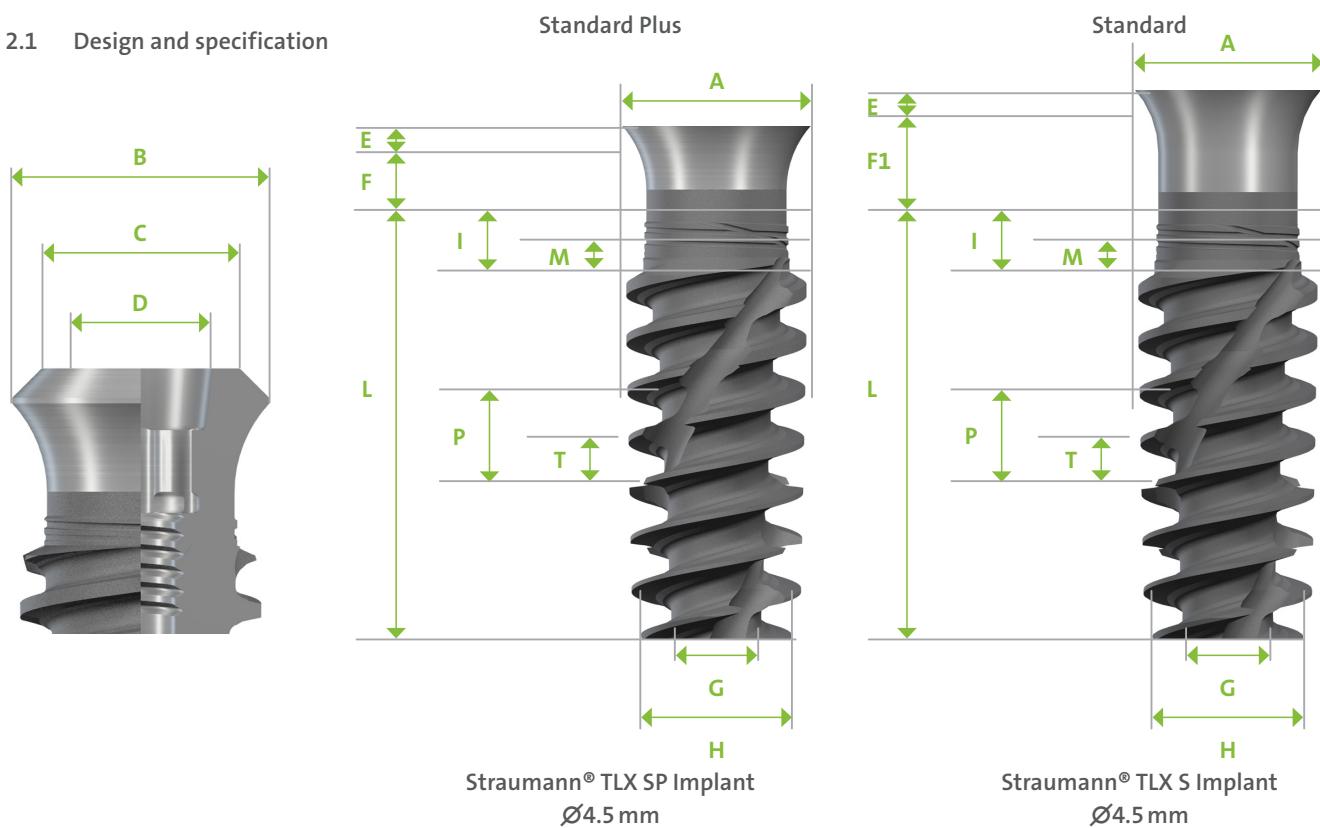
To obtain more information about the indications and contraindications related to each implant, please refer to the corresponding instructions for use. Instructions for use can be found at ifu.straumann.com.

	Straumann® TLX S Implant Ø3.75 mm	Straumann® TLX S Implant Ø4.5 mm	Straumann® TLX S Implant Ø5.5 mm	Straumann® TLX S Implant Ø6.5 mm			
Shoulder Height	Standard - Implant shoulder 2.8mm						
Color code	 (red)	 (green)	 (brown)	 (black)			
Prosthetic Base	NT	RT	NT	RT			
Connection	TorcFit™						
Image							
SLActive®							
Available lengths	6 mm	035.1006S	035.1106S	035.1406S	035.1506S	035.1706S	035.1806S
	8 mm	035.1008S	035.1108S	035.1408S	035.1508S	035.1708S	035.1808S
	10 mm	035.1010S	035.1110S	035.1410S	035.1510S	035.1710S	035.1810S
	12 mm	035.1012S	035.1112S	035.1412S	035.1512S	035.1712S	035.1812S
	14 mm	035.1014S	035.1114S	035.1414S	035.1514S	N/A	
	16 mm	035.1016S	035.1116S	035.1416S	035.1516S		
	18 mm	035.1018S	035.1118S	035.1418S	035.1518S		
SLA					N/A		
Available lengths	6mm	035.0006S	035.0106S	035.0406S	035.0506S		
	8mm	035.0008S	035.0108S	035.0408S	035.0508S		
	10mm	035.0010S	035.0110S	035.0410S	035.0510S		
	12mm	035.0012S	035.0112S	035.0412S	035.0512S		
	14mm	035.0014S	035.0114S	035.0414S	035.0514S		
	16mm	035.0016S	035.0116S	035.0416S	035.0516S		
	18mm	035.0018S	035.0118S	035.0418S	035.0518S		

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

2. Implant

2.1 Design and specification



	Straumann® TLX Implant Ø3.75 mm NT	Straumann® TLX Implant Ø3.75 mm RT	Straumann® TLX Implant Ø4.5 mm NT	Straumann® TLX Implant Ø4.5 mm RT	Straumann® TLX Implant Ø5.5 mm WT	Straumann® TLX Implant Ø6.5 mm WT
[A] Maximum outer diameter	Ø3.75 mm		Ø4.5 mm		Ø5.5 mm	Ø6.5 mm
[B] Shoulder diameter	Ø3.5 mm	Ø4.8 mm	Ø3.5 mm	Ø4.8 mm		Ø6.5 mm
[C] Platform diameter	Ø2.9 mm	Ø3.7 mm	Ø2.9 mm	Ø3.7 mm		Ø5.0 mm
[D] Connection diameter				Ø2.7 mm		
[E] 45° bevel height				0.5 mm		
[F] Smooth shoulder height* Standard Plus (SP)				1.8 mm		
[F1] Smooth shoulder height* Standard (S)				2.8 mm		
[G] Apical diameter, body			Ø1.9 mm		Ø2.0 mm	Ø3.0 mm
[H] Apical diameter, threads	Ø2.9 mm		Ø3.6 mm		Ø4.0 mm	Ø5.2 mm
Number of apical cutting edges	2				4	
[L] Implant lengths: 6 mm, 8 mm						
[I] Threads to shoulder height				1.0 mm		
[M] Micro threads height				0.5 mm		
[P] Thread pitch**	1.7 mm		2.0 mm		2.1 mm	2.5 mm
[T] Thread spacing	0.85 mm		1.0 mm		1.05 mm	1.25 mm
[L] Implant lengths: 10 mm, 12 mm, 14 mm						
[I] End of threads to shoulder distance				1.7 mm		
[M] Micro threads height				0.85 mm		
[P] Thread pitch**	2.2 mm		2.5 mm		2.8 mm	
[T] Thread spacing	1.1 mm		1.25 mm		1.4 mm	
[L] Implant lengths: 16 mm, 18 mm						
[I] Threads to shoulder height			2.0 mm			
[M] Micro threads height			1.0 mm			
[P] Thread pitch**	2.6 mm		2.8 mm			
[T] Thread spacing	1.3 mm		1.4 mm			

* This quote refers to height of the shoulder with a smooth non-SLActive® surface

** Implant advances by this distance with every full rotation (360°)

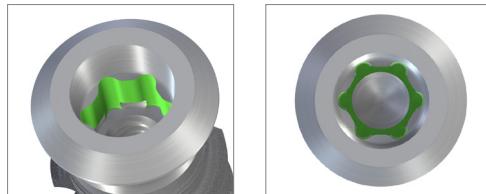
3. Connection

The Straumann® TLX Implant features the intuitive TorcFit™ connection. This connection supports self-guiding insertion, for clear-cut tactile feedback. Six positions enable a simple yet flexible alignment and outstanding protection against rotation.

All TLX Implants have the same inner geometry regardless of the diameter of the implant. This allows the use of the **same implant driver for all implants**.

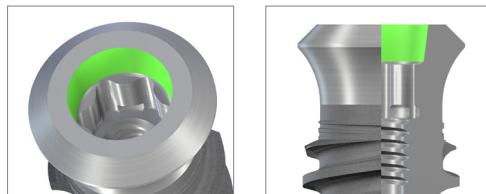
Improved Torx with six positions:

- Allows transmission of high torques
- Simple yet flexible implant and abutment alignment
- Clear-cut and guided component insertion via cylindrical guidance



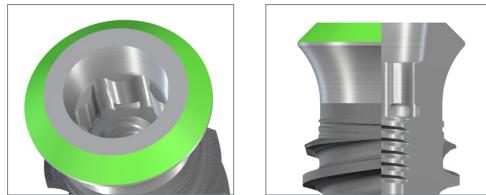
7° conical prosthetic connection:

- High mechanical stability



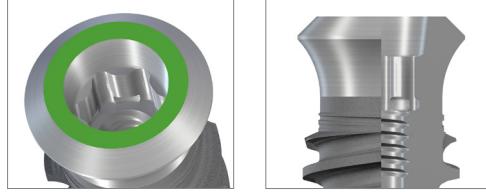
45° shoulder prosthetic connection:

- High mechanical stability
- Exact implant-abutment fit
- Extra wide emergence profiles (implants with diameter >5.5 mm)
- Divergence compensation for bridges

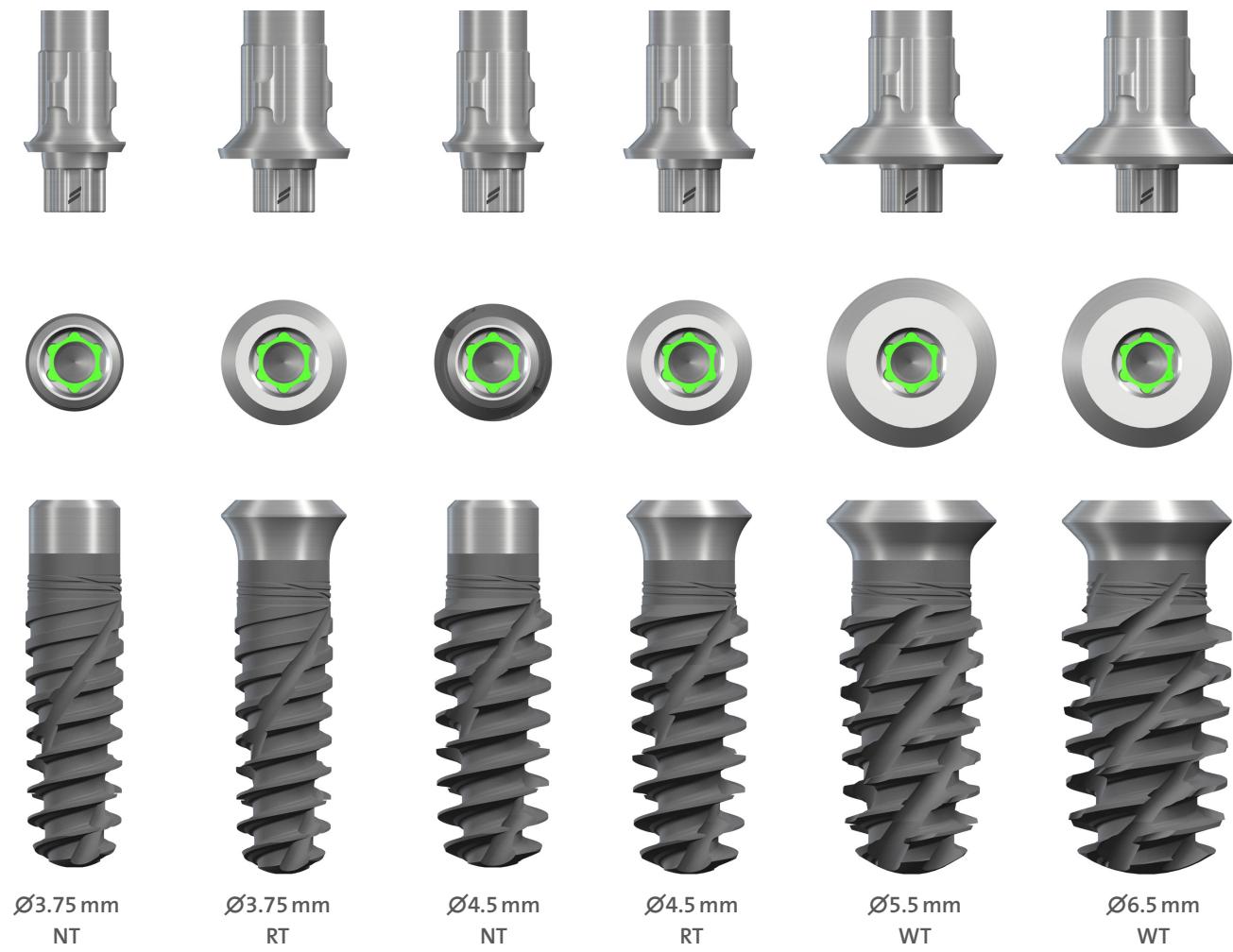


Flat Top portion:

- High accuracy for scanbody



Same inner geometry regardless of the diameter of the implant. Same implant driver for all implants. Precisely machined shoulder.

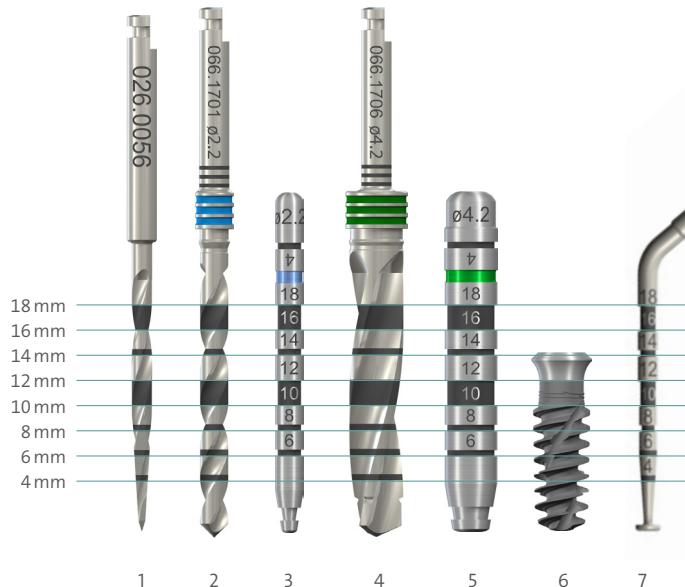


Pictures above refer to Straumann® TLX SP Implants.

4. Instruments

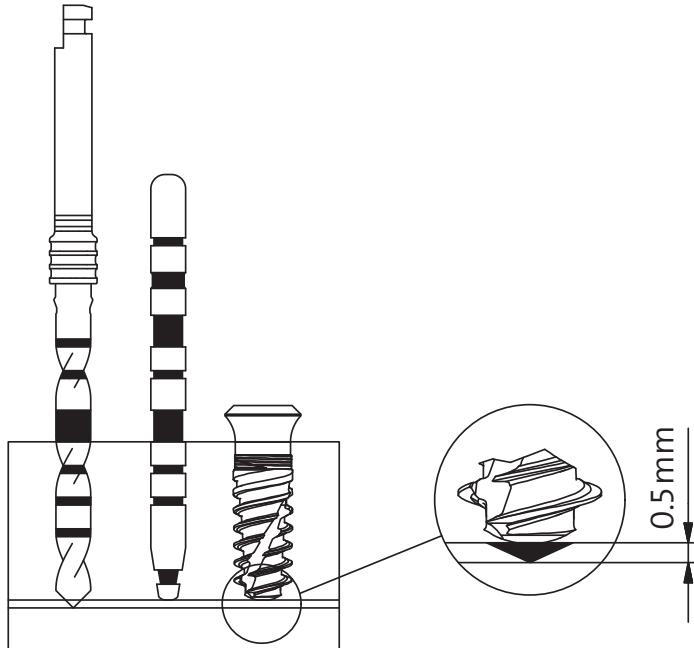
The Straumann® TLX Implant System is supplied with a specific set of instruments.

The instruments have depth marks at 2 mm intervals that correspond to the available implant lengths. The first bold mark on the drills represents 10 mm and 12 mm, where the lower edge of the mark corresponds to 10 mm and the upper edge to 12 mm. The second bold mark on the long drills represents 16 mm and 18 mm, where the lower edge of the mark corresponds to 16 mm and the upper edge to 18 mm.



1. Needle Drill: 026.0056
2. Pilot Drill, long: 066.1701
3. Alignment Pin: 046.799
4. Drill 6, long: 066.1706
5. Depth Gauge: 046.804
6. TLX Implant Ø4.5 RT / 12 mm: 035.3512S
7. Implant Depth Gauge: 066.2000

Warning: Due to the function and design of the drills, the drill tip is up to 0.5 mm longer than the insertion depth of the implant. For example, if you drill until the 10 mm marking the actual osteotomy has a depth of 10.5 mm.



4.1 VeloDrill™

All TLX VeloDrill™ in the Straumann® Implant System are delivered color-coded, the color corresponding to the specific implant diameter. For precise depth control, VeloDrill™ are compatible with a disposable drill stop (refer to *Straumann® Drill Stop – Basic Information (NAMLIT.1347)*).

	Needle drill	Drill No.1 (pilot)	Drill No.2	Drill No.3	Drill No.4	Drill No.5	Drill No.6	Drill No.7	Drill No.8	Drill No.9
Color	–									
Image (short)										
Diameter	Ø1.6 mm	Ø2.2 mm	Ø2.8 mm	Ø3.2 mm	Ø3.5 mm	Ø3.7 mm	Ø4.2 mm	Ø4.7 mm	Ø5.2 mm	Ø6.2 mm
Step diameter	NA	NA	Ø2.5 mm	Ø3.0 mm	Ø3.3 mm	Ø3.6 mm	Ø3.9 mm	Ø4.4 mm	Ø4.9 mm	Ø5.7 mm
Short	026.0054	066.1301	066.1302	066.1303	066.1304	066.1305	066.1306	066.1307	066.1308	066.1309
Long	026.0056	066.1701	066.1702	066.1703	066.1704	066.1705	066.1706	066.1707	066.1508	066.1509
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel

4.2 Drill extender

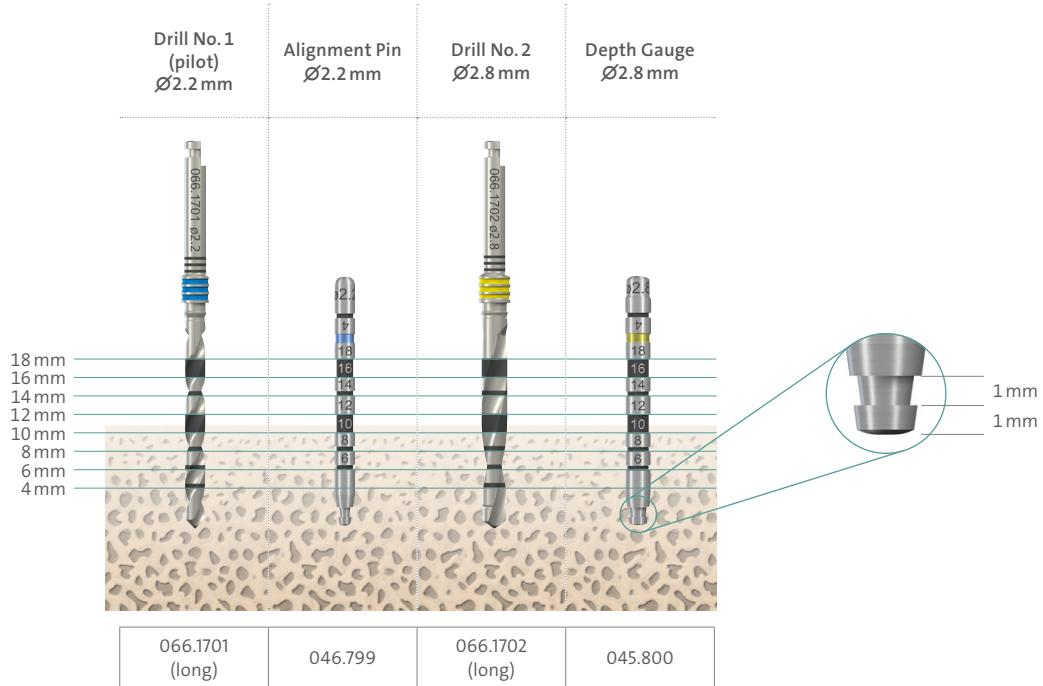


The stop ring reduces the effectiveness of the irrigation when a drill extender is used. In this case use additional external irrigation (e.g with a syringe) to ensure proper cooling of the osteotomy during drilling.

4.3 Alignment Pin and Depth Gauges

Alignment pins and depth gauges are available for accurate depth measurements and alignment of orientation and position of the osteotomy. Their diameters and color correspond to the drill diameters and are compatible with all Straumann® implant systems.

The tip and the groove are both 1.0 mm long. This allows distortion measurements on an intraoperative radiograph.



4.4 Implant depth gauge

Implant depth gauge for accurate depth measurement and tactile examination of the osteotomy.

Blue end: use to examine osteotomy made by drill No. 1 ($\varnothing 2.2\text{ mm}$)

Yellow end: use to examine osteotomy made with drill No. 2 ($\varnothing 2.8\text{ mm}$) and wider.

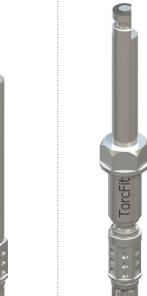
Made of titanium-alloy (TAN). Compatible with all Straumann® implant systems.



Implant depth gauge, 066.2000

4.5 Implant driver

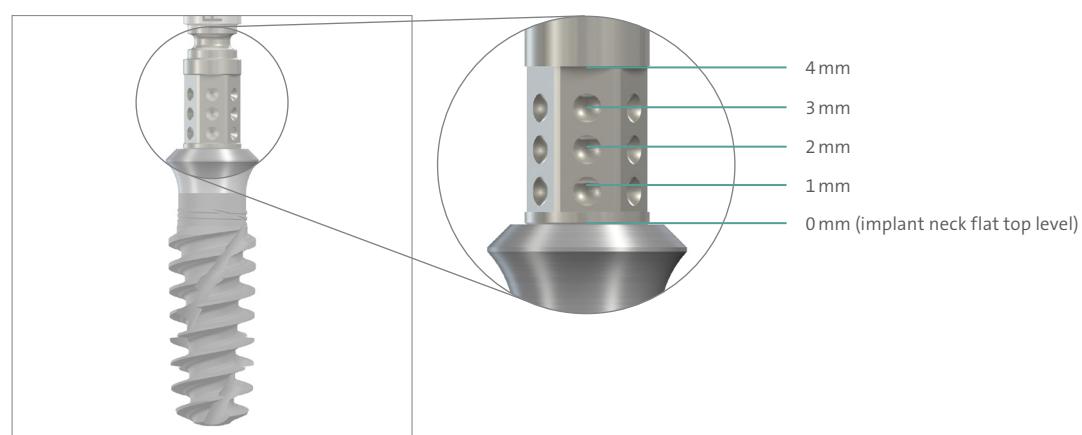
Specific Implant Driver to use for pick-up and insertion of the Straumann® TLX Implants.

Implant Driver type									
Implant Driver for Handpiece				Implant Driver for Ratchet			Implant Driver for Ratchet, screw-retained		
Implant Driver for Handpiece		Implant Driver for Ratchet		Implant Driver for Ratchet, screw-retained					
									
short	medium	long	extra long	short	medium	long	short	long	
Length 21 mm	Length 26 mm	Length 31 mm	Length 36 mm	Length 21 mm	Length 26 mm	Length 31 mm	Length 21 mm	Length 31 mm	
Stainless steel									
066.4101	066.4107	066.4102	066.4108	066.4201	066.4207	066.4202	066.4205	066.4206	

Note: Consider the available intra-oral space when selecting the implant driver. The long and extra-long versions are recommended for anterior only.

Surgical Handle for TorcFit™ Implant Driver	
	
Stainless steel	

The Implant Driver for handpiece (long (066.4102), extra long (066.4108)) is compatible with the Surgical Handle, for TorcFit™ Implant Driver. If manual surgical Implant drivers are used to insert the implant, special attention is required to avoid overtightening.



The round markings on the Implant Drivers indicate the distance to the implant flat top in 1mm steps. As the SP implant has a 1.8 mm implant shoulder, the distance of the first round marking to the SLActive® surface margin is 1.8 mm + 1 mm = 2.8 mm, that of the second round mark is 3.8 mm, that of the third round mark is 4.8 mm.

4.6 Ratchet and torque control devices

The ratchet is a two-part lever arm instrument with a rotary knob for changing the direction of force. It is supplied with a service instrument, which is used to tighten and loosen the head screw. The Holding Key (046.064) can be used to stabilize the ratchet.

Two different Torque Control Devices are available for defined torque transmission or for torque measurements, with markings of 15Ncm / 35Ncm and 35-50Ncm / 80Ncm respectively. Choose the appropriate device depending on the intended use.

Ratchet and Torque Control Devices				
Holding Key	Ratchet	Torque Control Device for Ratchet	TLX Torque Control Device for Ratchet, Surgical	
A long, thin, L-shaped metal key used to stabilize the ratchet during use.	A two-part lever arm instrument with a central screw and a handle at the top.	A cylindrical device with markings for 35 and 15 Ncm, with a central screw and a handle.	A cylindrical device with markings for 35, 50, and 80 Ncm, with a central screw and a handle.	A cylindrical device with markings for 35, 50, and 80 Ncm, with a central screw and a handle, labeled 'surgical'.
Intended use	Auxiliary	Torque transmission	Prosthetic	Surgical
Torque markings	NA	NA	0/15/35Ncm	0/35/50/80Ncm
Article Number	046.064	046.119	046.049	066.1100
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel, DLC coated

Note: To ensure prolonged perfect function and cleanability, the ratchet must always be taken apart and the individual parts disinfected, cleaned and sterilized after use. Its function must be checked in good time before each use.

Always use the Service Instrument to tighten the bolt of the ratchet before use.

Torque reading on Torque Control Device:

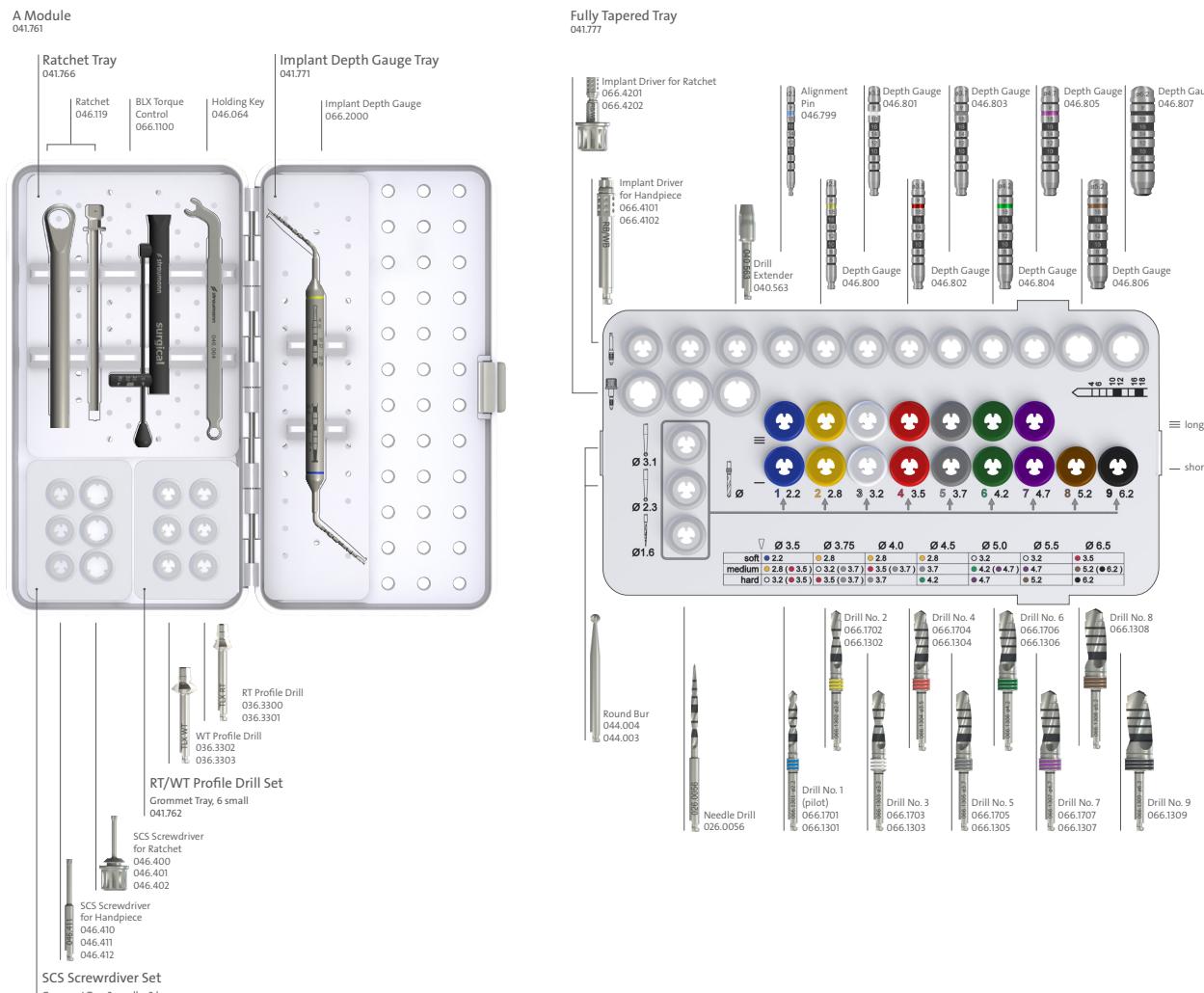


4.7 Straumann® Modular Cassette

The Straumann® Modular Cassette is used for the sterilization and the secure storage of the surgical instruments and auxiliary instruments. For guidelines on how to clean and sterilize the cassette, please refer to *Straumann® Modular Cassette, Basic Information (USLIT.1291)*.



4.8 Setup for TLX freehand surgery



For more information refer to *Straumann® Modular Cassette Selection Guide (USLIT.1297)*.

5. Surgical procedure

The workflow for the surgical procedure for the Straumann® TLX Implant System involves 3 steps:

- Preoperative planning
- Implant bed preparation
- Implant insertion

5.1 Preoperative planning

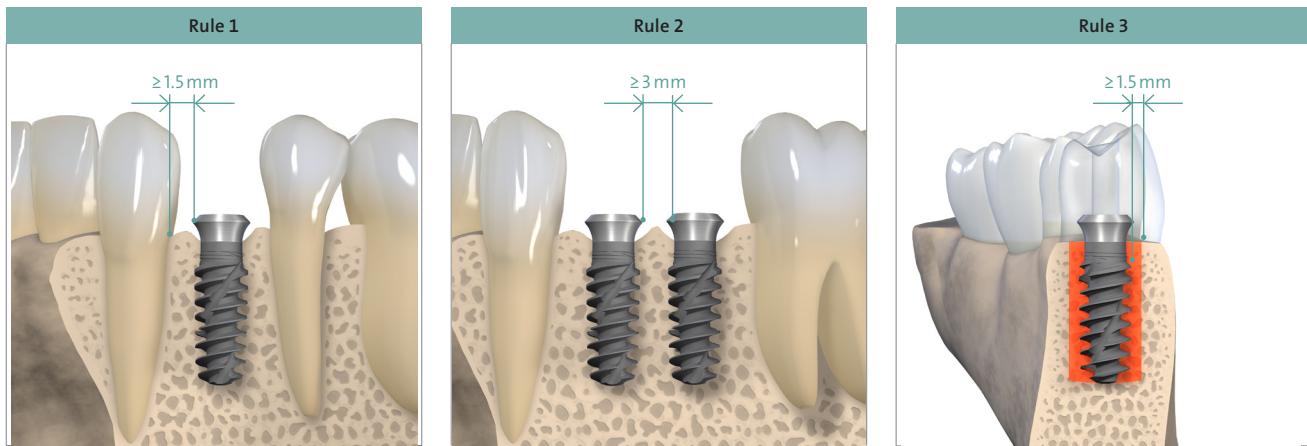
Prosthetic-driven planning is recommended, and close communication between the patient, dentist, surgeon and dental technician is imperative for achieving the desired esthetic result.

To determine the topographical situation, axial orientation and the appropriate implants, making a wax-up / set up using the previously prepared study cast is recommended. Subsequently, the type of superstructure can be defined. The wax-up / set-up can later be used as the basis for a custom-made X-ray or drill template and for a temporary restoration.

Note: 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 as this can lead to unphysiological loading.

The mesiodistal bone availability is an important factor when choosing the implant type and diameter as well as the inter-implant distances if multiple implants are placed. The point of reference on the implant for measuring mesiodistal distances is always the largest diameter of the implant.

The following three rules should be regarded as minimum guidelines:



Rule 1: Distance to adjacent tooth at implant shoulder level

A minimum distance of **1.5 mm** from the **implant shoulder to the adjacent tooth** (mesial and distal) is recommended.

Rule 2: Distance to adjacent implants at bone level.

A minimum distance of **3 mm** between **two adjacent implant shoulders** (mesiodistal) is recommended.

Rule 3: The facial and palatal bone layer must be at least **1.5 mm** thick in order to ensure stable hard and soft tissue conditions. Within this limitation, a restoration-driven orofacial implant position and axis should be chosen such that screw-retained restorations are possible.

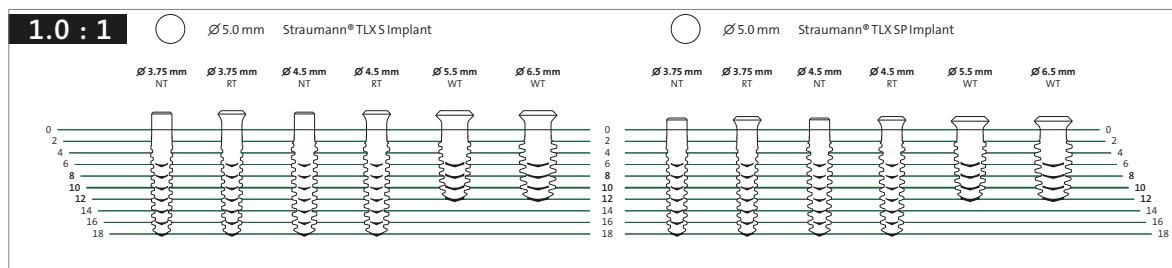
Caution: An augmentation procedure is indicated if the orofacial bone wall is less than 1.5 mm or a layer of bone is missing on one or more sides. This technique should be employed only by dentists with adequate experience in the use of augmentation procedures.

5.1.1 X-ray reference foil

The vertical bone availability determines the maximum 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 reference foil with X-ray Reference Sphere (Art. No. 049.076V4).

The TLX X-ray reference foils (Art No. 036.3400) are used for measurement and comparison. They assist the user in selecting the suitable implant type, diameter and length. Similar to the distortions that occur in X-rays, the implant dimensions are shown on the individual reference foils 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 reference foil. 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 reference foil. Superimpose the two pictures to find the correct scale. Next, determine the spatial relations around the implant position, and establish the implant length and insertion depth.

For more information regarding the preparation of a X-ray jig with the Reference Spheres see the *Straumann® Dental Implant System, Basic Information* (NAMLIT.1017).



Note: For Straumann® TLX Implants use only the X-ray reference foil specific to the TLX Implant (Art No. 036.3400).

To calculate the effective bone availability, use the following formula:

$$\frac{\text{X-ray Reference sphere } 5 \text{ mm} \times \text{bone availability (X-ray)}}{\text{Reference sphere diameter on the X-ray}} = \frac{\text{effective bone availability}}{}$$

* Taking into consideration all implant-related anatomic structures (e.g. mandibular canal, sinus maxillaris, etc.)

5.1.2 Planning software

Another possibility is digital planning with e.g. coDiagnosiX®. This 3D diagnostics and implant planning software is designed for the image-guided surgical planning of dental implants, including TLX Implants, which are included in the system's digital library. Working with the software is based on a patient's medical image data, such as a CT (Computed Tomography) or DVT (Digital Volume Tomography) scan processed by coDiagnosiX®.



Planning includes the calculation of several views (such as virtual OPG or a 3-dimensional reconstruction of the image dataset), analysis of the image data and the placement of implants, abutments and drilling sleeves.

coDiagnosiX® software is designed for use by professionals with appropriate knowledge in implantology and surgical dentistry. For further information, please refer to the coDiagnosiX® Manual.



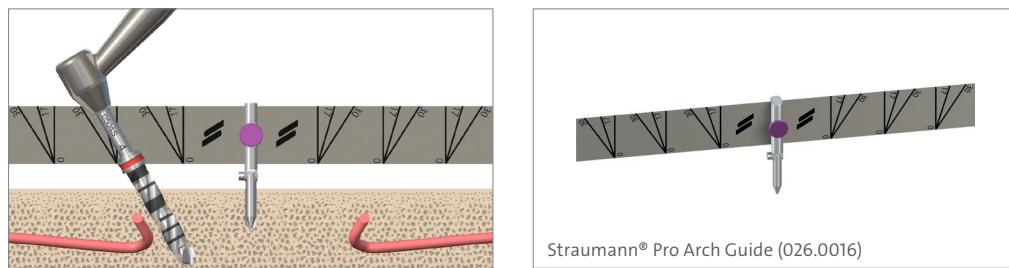
CARES® Synergy workflow

CARES® Synergy provides real-time communication between the implant planning software (coDiagnosiX®) and the lab software (i.e. Straumann® CARES® Visual) and improves implant planning by visualizing the relationship between the proposed implant position and the proposed restoration.

5.1.3 Straumann® Pro Arch Guide

For intraoperative visual and three-dimensional orientation of the implant angulation (mesial/distal) and oral parallelization, use the Straumann® Pro Arch Guide.

The Pro Arch Guide is used in edentulous jaws for surgical implant placement. The Pro Arch Guide can be easily bent to adapt to the dental arch. It is secured by drilling into the symphysis with a Ø2.2 mm Drill No. 1 and a pin in the jaw. The drilling depth for the bone cavity of the pin is 10 mm. The drilling depth can be checked optically using the depth markings on the drills. For adjustment and disassembly use the TS Hexagonal Screwdriver (046.420).



For further information about treatment of edentulous patients and angulated placement of TLX Implants, please refer to the *Straumann® Pro Arch, Basic Information* (NAMLIT.1060).

5.1.4 Bone density definition

Cross sectional view of different types of bone quality*		
Type I	Type II/III	Type IV
Hard	Medium	Soft
Thick cortical bone with marrow cavity	Thin cortical bone with dense trabecular bone of good strength	Very thin cortical bone with low density trabecular bone of poor strength

Type I: Thick cortical bone with marrow cavity

Type II/III: Thin cortical bone with dense trabecular bone of good strength

Type IV: Very thin cortical bone with low density trabecular bone of poor strength

* Lekholm U, Zarb G. Patient selection and preparation in Tissue Integrated Prostheses. Branemark P I, Zarb G A, Albrektsson T (eds). pp199–210. Quintessence, 1985.

5.2 Implant bed preparation

The Straumann® Modular Cassette with specific instruments is used to prepare the implant bed. Different drill protocols should be employed depending on the bone density. This offers the flexibility to adapt the implant bed preparation to the individual bone quality and anatomical situation.

A quick guide to the surgical drill protocol is printed on the cassette and indicates the final drill recommended for each implant diameter and bone density.

Numbers in brackets (): to a depth of 4 mm (for implant lengths 6 mm and 8 mm) and 6 mm (for implant lengths 10 mm and longer) only in order to widen the coronal part of the implant bed.

Implant diameters of $\varnothing 3.5$, $\varnothing 4.0$ and $\varnothing 5.0$, printed on the cassette, are only available for BLX Implant System and not for TLX Implant System.

	Bone density						
	$\varnothing 3.5$	$\varnothing 3.75$	$\varnothing 4.0$	$\varnothing 4.5$	$\varnothing 5.0$	$\varnothing 5.5$	$\varnothing 6.5$
soft	● 2.2	○ 2.8	○ 2.8	○ 2.8	○ 3.2	○ 3.2	● 3.5
medium	○ 2.8 (● 3.5)	○ 3.2 (● 3.7)	● 3.5 (● 3.7)	● 3.7	● 4.2 (● 4.7)	● 4.7	● 5.2 (● 6.2)
hard	○ 3.2 (● 3.5)	● 3.5 (● 3.7)	● 3.7	● 4.2	● 4.7	● 5.2	● 6.2

Implant maximum endosteal outer diameter

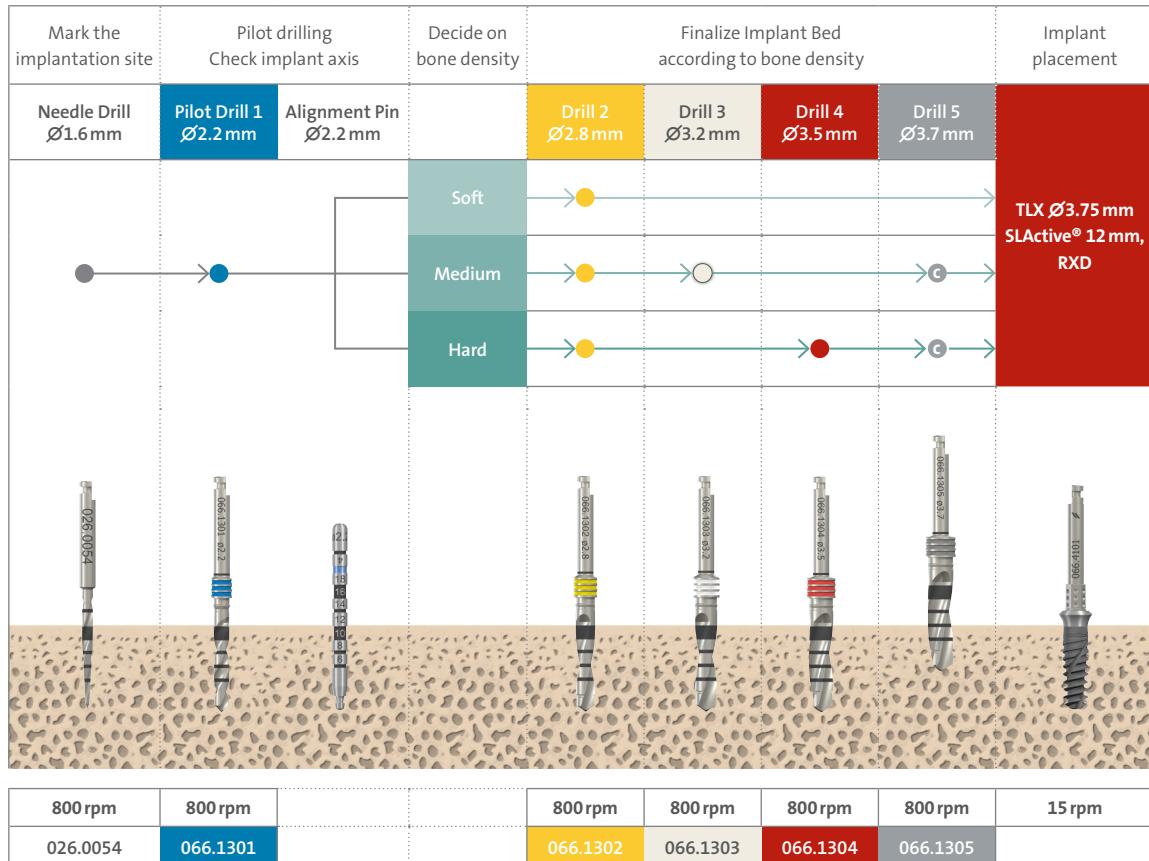
Final drill diameter

Cortical bone widening drill diameter

Note: Every implant bed has to be initiated with the pilot drill ($\varnothing 2.2$ mm) to full implant length. On the quick guide only the final drill is displayed. The clinician can decide whether or not a sequence of drills with increasing diameters is used. Due to the self-cutting properties of the TLX Implant the implant bed can be underprepared in length by 2 mm with the final drills in soft bone. Use the drills in a clockwise drill rotation direction, use intermittent drilling technique and provide ample cooling with pre-cooled (5°C, 41°F) sterile saline solution. Do not exceed the recommended drill speeds, as indicated on the next page.

5.2.1 Workflow for TLX Ø3.75 mm

Implant bed preparation, illustrated with a TLX Implant Ø3.75 mm / 12 mm RT



C Preparation for cortical bone only:

- do a depth of 4 mm for implants with a length of 6 mm and 8 mm
- do a depth of 6 mm for implants with a length of 10 mm to 18 mm

Warning: Due to the function and design of the drills, the drill tip is up to 0.5 mm longer than the insertion depth of the implant. For example, if you drill until the 10 mm marking, the actual implant bed has a depth of 10.5 mm.

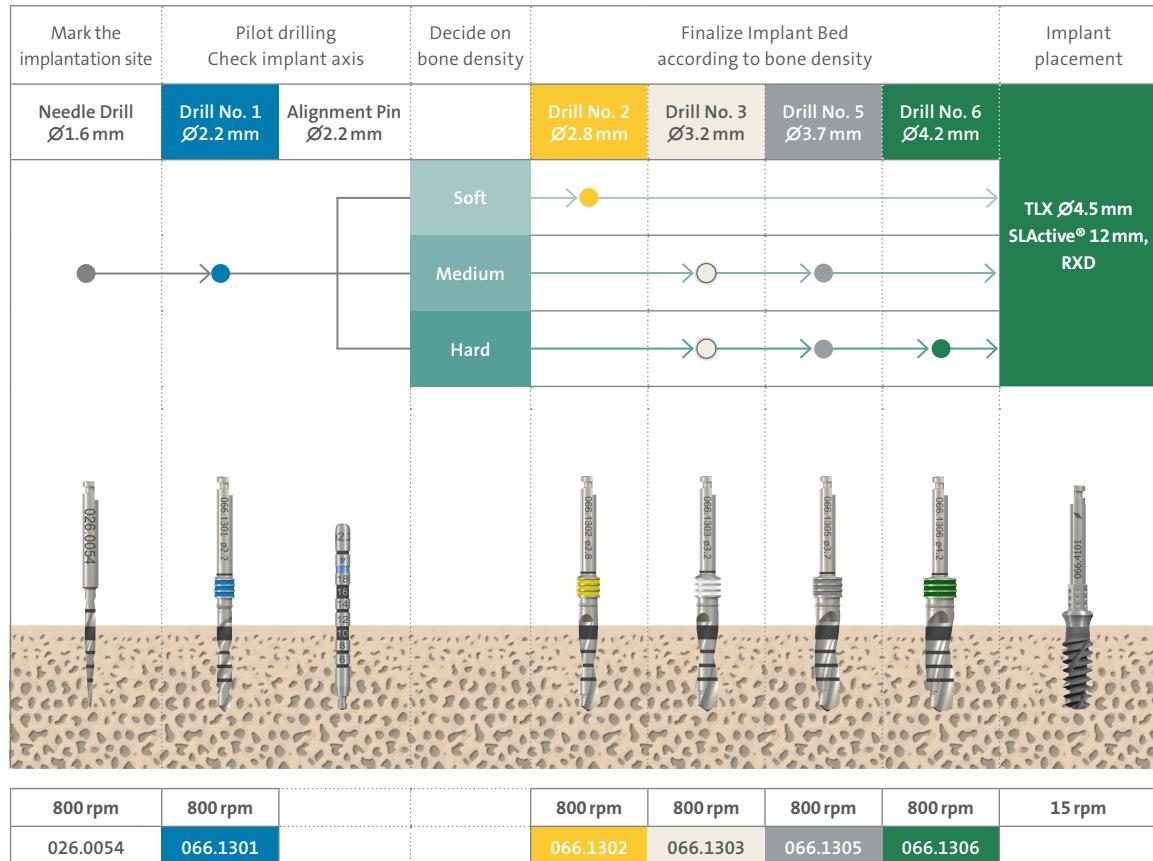
Cortical bone treatment: in the presence of a hard cortical bone layer, it is recommended to widen the implant bed in this area using drill number 5 ($\varnothing 3.7\text{ mm}$) for $\varnothing 3.75\text{ mm}$ and $\varnothing 4.5\text{ mm}$ implants and drill number 7 ($\varnothing 4.7\text{ mm}$) for $\varnothing 5.5\text{ mm}$ and $\varnothing 6.5\text{ mm}$ implants, independent of the overall bone-quality.

Subcrestal implant placement: consider final implant position for drill depth, never undersize in length with the pilot drill #1.

Immediate placement: In extraction sites where the implant only engages the apical part, drill # 2 ($\varnothing 2.8$ mm) is recommended as the final drill.

5.2.2 Workflow for TLX Ø4.5 mm

Implant bed preparation, illustrated with a TLX Implant Ø4.5 mm / 12 mm RT



Warning: Due to the function and design of the drills, the drill tip is up to 0.5 mm longer than the insertion depth of the implant. For example, if you drill until the 10 mm marking, the actual implant bed has a depth of 10.5 mm.

Cortical bone treatment: in the presence of a hard cortical bone layer, it is recommended to widen the implant bed in this area using drill number 5 (Ø3.7mm) for Ø3.75mm and Ø4.5mm implants and drill number 7 (Ø4.7mm) for Ø5.5mm and Ø6.5mm implants, independent of the overall bone-quality.

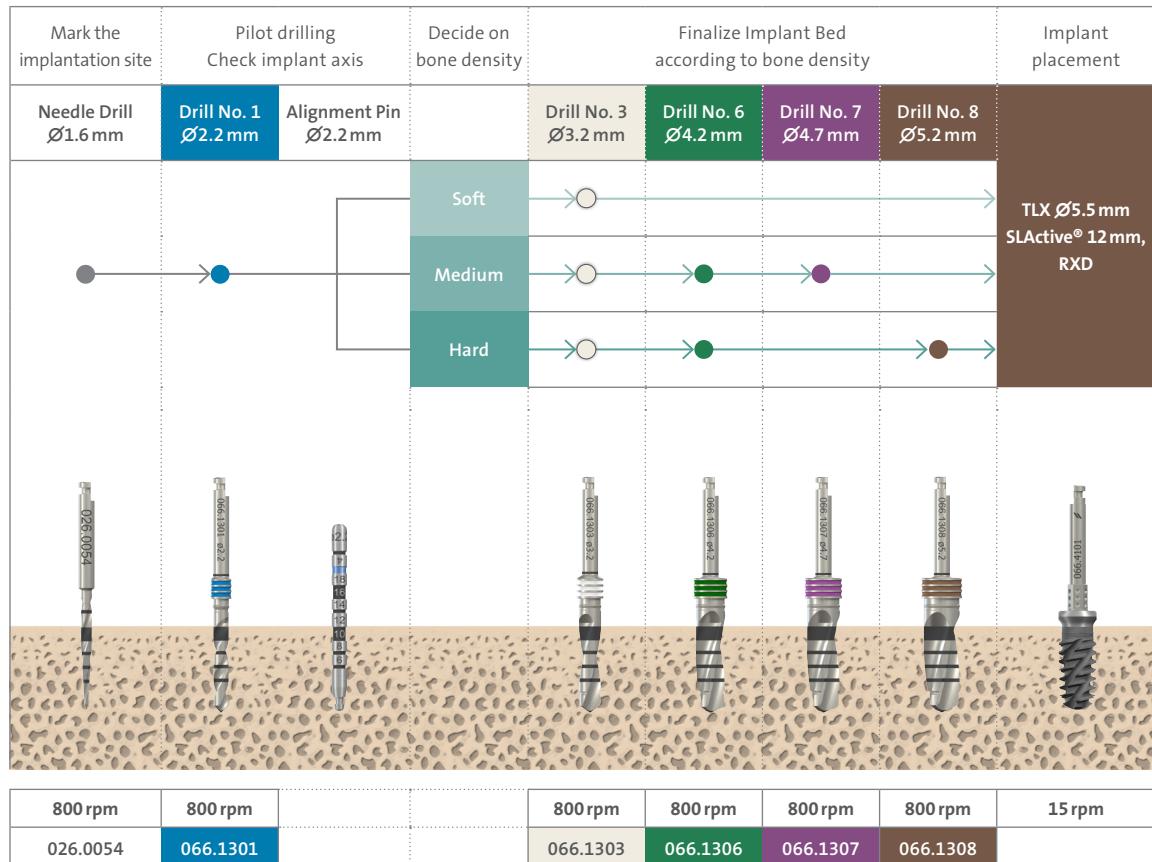
Considerations for hard bone in healed sites: application of the hard bone drill protocol for a TLX implant diameter with wider threads (Ø4.5mm, Ø5.5mm and Ø6.5mm) in healed sites results in a small gap between the implant shoulder and the surrounding crestal bone. In such situations it is recommended to consider minor bone grafting around the implant shoulder. This may be accomplished by scraping a small amount of bone with a surgical chisel from the area surrounding the osteotomy (already exposed) and applying it between the implant and the osteotomy.

Subcrestal implant placement: consider final implant position for drill depth, never undersize in length with the pilot drill #1.

Immediate placement: In extraction sites where the implant only engages the apical part, drill # 2 (Ø2.8 mm) is recommended as the final drill.

5.2.3 Workflow for TLX Ø5.5 mm

Implant bed preparation, illustrated with a TLX Implant Ø5.5 mm / 12 mm WT



Warning: Due to the function and design of the drills, the drill tip is up to 0.5 mm longer than the insertion depth of the implant. For example, if you drill until the 10 mm marking, the actual implant bed has a depth of 10.5 mm.

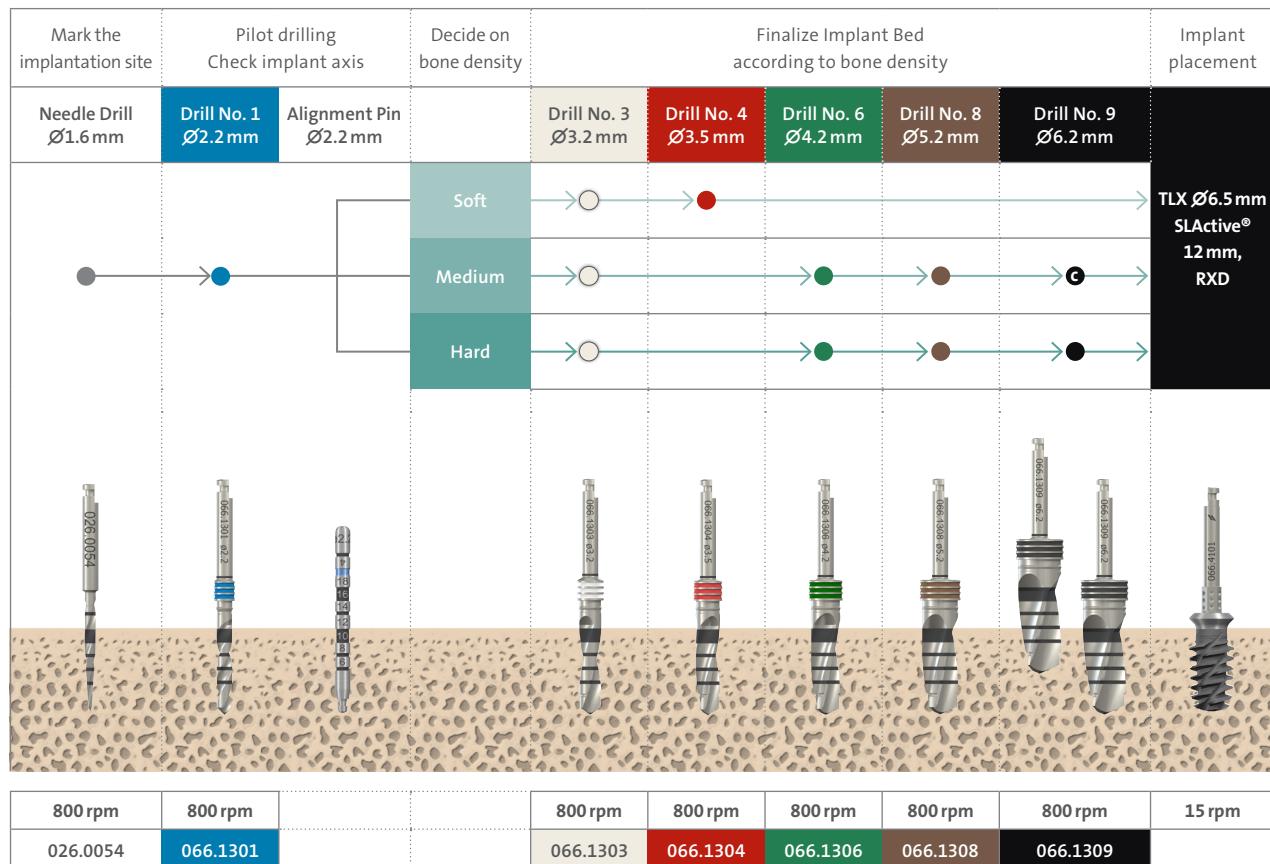
Cortical bone treatment: in the presence of a hard cortical bone layer, it is recommended to widen the implant bed in this area using drill number 5 (Ø3.7mm) for Ø3.75mm and Ø4.5mm implants and drill number 7 (Ø4.7mm) for Ø5.5mm and Ø6.5mm implants, independent of the overall bone-quality.

Considerations for hard bone in healed sites: application of the hard bone drill protocol for a TLX implant diameter with wider threads (Ø 4.5mm, Ø 5.5mm and Ø 6.5 mm) in healed sites results in a small gap between the implant shoulder and the surrounding crestal bone. In such situations it is recommended to consider minor bone grafting around the implant shoulder. This may be accomplished by scraping a small amount of bone with a surgical chisel from the area surrounding the osteotomy (already exposed) and applying it between the implant and the osteotomy.

Subcrestal implant placement: consider final implant position for drill depth, never undersize in length with the pilot drill #1 and #3.

5.2.4 Workflow for TLX Ø6.5 mm

Implant bed preparation, illustrated with a TLX Implant Ø6.5 mm / 12 mm WT



● Preparation for cortical bone only:

- do a depth of 4 mm for implants with a length of 6 mm and 8 mm
- do a depth of 6 mm for implants with a length of 10 mm to 18 mm

Warning: Due to the function and design of the drills, the drill tip is up to 0.5 mm longer than the insertion depth of the implant. For example, if you drill until the 10 mm marking, the actual implant bed has a depth of 10.5 mm.

Cortical bone treatment: in the presence of a hard cortical bone layer, it is recommended to widen the implant bed in this area using drill number 5 (Ø3.7 mm) for Ø3.75 mm and Ø4.5 mm implants and drill number 7 (Ø4.7 mm) for Ø5.5 mm and Ø6.5 mm implants, independent of the overall bone-quality.

Considerations for hard bone in healed sites: application of the hard bone drill protocol for a TLX implant diameter with wider threads (Ø 4.5 mm, Ø 5.5 mm and Ø 6.5 mm) in healed sites results in a small gap between the implant shoulder and the surrounding crestal bone. In such situations it is recommended to consider minor bone grafting around the implant shoulder. This may be accomplished by scraping a small amount of bone with a surgical chisel from the area surrounding the osteotomy (already exposed) and applying it between the implant and the osteotomy.

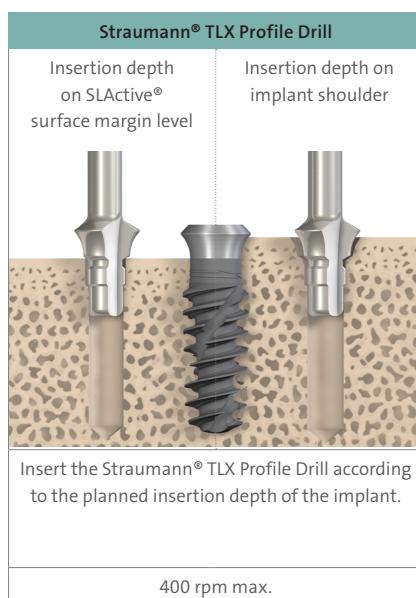
Subcrestal implant placement: consider final implant position for drill depth, never undersize in length with the pilot drill #1 and #3.

5.2.5 Profile drilling

The recommended procedure for Straumann® TLX implants foresees the insertion of the implant with the SLActive® surface margin aligned with the bone level (see left side of the picture below). This procedure does not require profile drilling with specific instruments. This is independent of the bone class.

Should the clinician, for any reason related to his own clinical judgement, deem necessary to insert the implant deeper, (see right side of the picture below), it is recommended to profile drill with the dedicated instruments: TLX, RT, Prof. Drill, S, for imp Ø3.75/Ø4.8, SST Ref. 036.3300 and TLX, WT, Prof. Drill, S, for imp Ø5.5/Ø6.5, SST Ref. 036.3302.

The profile drills for TLX implants are clearly marked TLX. The text field indicated on the label, following the TLX mark, corresponds to the implant shoulder size (RT, WT).



Note:

Due to the unflared neck portion, profile drill is not needed for the Straumann® TLX implants with neck size NT.

Caution:

The profile drills are suitable only for the corresponding implant type.

5.3 Implant pick up

The TLX implants are provided with an implant carrying system that supports direct pick-up with an appropriate Implant Driver.



Step 1 – Open box and remove seal of blister to get access to the implant vial.

Note: Patient label can be found on the blister seal. The blister ensures the sterility of the implant. Do not open the blister until immediately prior to implant placement.

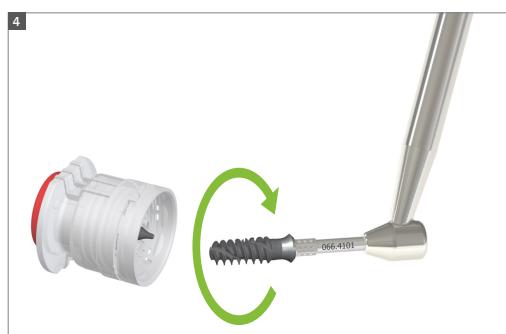


Step 2 – Open the vial with a counter-clockwise turn and remove the lid together with the implant.



Step 3 – Hold the vial lid and connect the Implant Driver to the implant using the handpiece. You hear a click when the Driver is attached correctly.

Caution: Make sure that the implant driver is properly seated and pull slightly on the driver to verify that it is correctly attached. This check must be performed before every use even when the driver has been successfully used before. Replace the driver with a new one if insufficient attachment occurs.

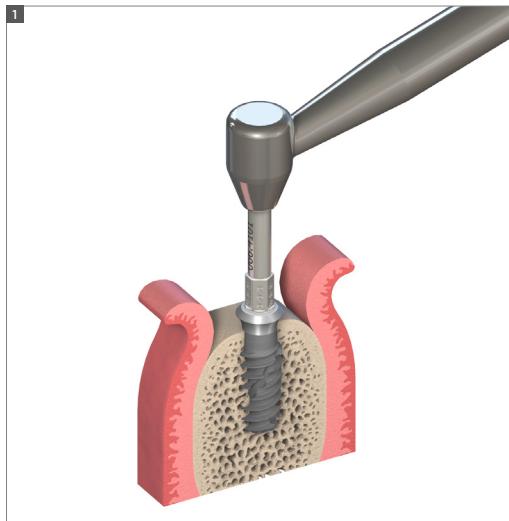


Step 4 – A slight clockwise turn is needed to remove the implant from its holder.

Note: After removing the implant from the solution, the chemical activity of SLActive® is ensured for 15 minutes.

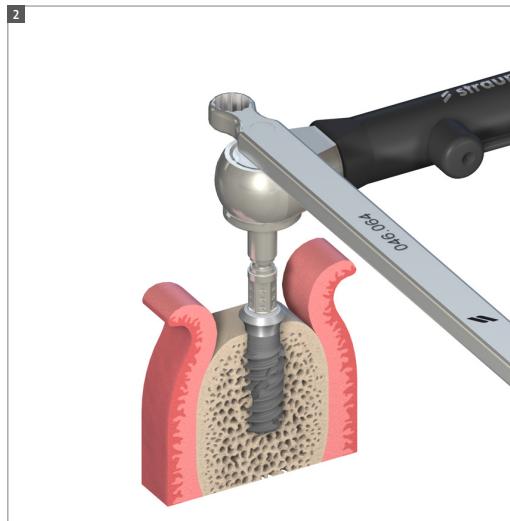
5.4 Implant placement

A Straumann® TLX implant can be placed using the Handpiece, or manually using the Ratchet. Do not exceed the recommended maximum speed of 15 rpm when using the Handpiece.



Step 1 – Place the implant

Place the implant with the driver in the Implant bed by turning it clockwise.



Step 2 – Final position

Use the Ratchet to move the implant to its final position by turning it clockwise. If strong resistance is occurring before the implant reached its final position, rotate the implant counterclockwise a few turns and continue to insert. Repeat this step a few time if needed.

If resistance is still too strong remove the implant, place the implant together with the implant driver back into the vial and widen the implant bed according to the drill protocol.

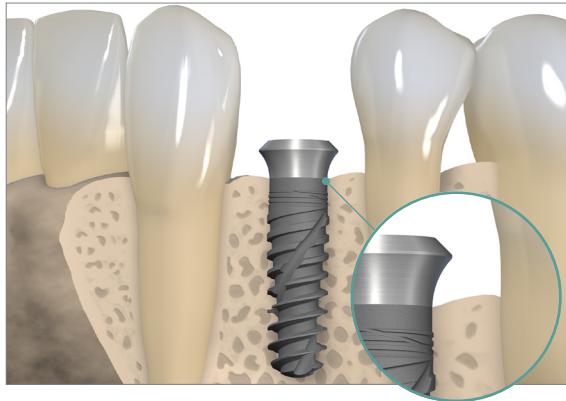
Note: For immediate function, a final torque of at least 35Ncm should be achieved. Excessive insertion torque must be avoided because this can lead to resorption of the bone.

For ISQ measurements: The Osstell Smartpeg type 95 (US100758) is compatible with the TLX Implant System.

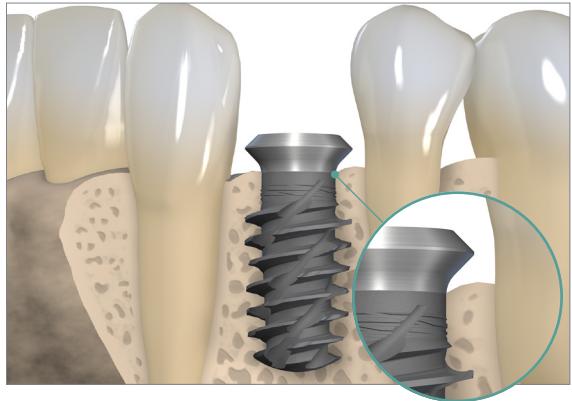
Final implant position NT/RT/WT implants

Coronoapical implant position. The TLX implant is best placed with the SLActive® surface margin at bone level.

Note: Straumann® implants allow for flexible coronoapical implant positioning, depending on individual anatomy, implant site, the type of restoration planned, and preference. Should the clinician, for any reason related to his own clinical judgement, deem necessary to insert the implant deeper, a subcrestal placement of 0.5 is possible. For subcrestal placement, the use of profile drills is required, see paragraph 5.2.5.

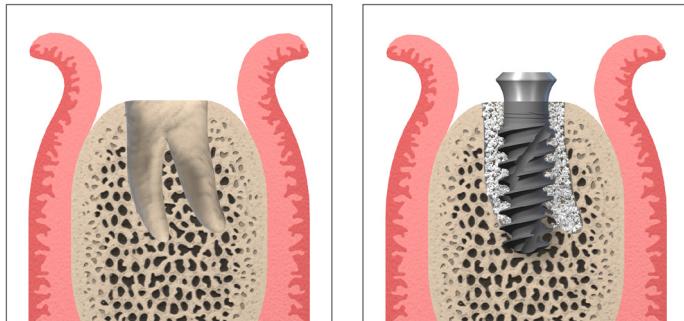


Regular TorcFit™ (RT) Implants with a Ø4.8 mm shoulder



Wide TorcFit™ (WT) Implants with a Ø6.5 mm shoulder

5.5 Gap management



As no implant will match the individual anatomical situation after tooth extraction exactly, immediate treatment procedures may require additional bone grafting ("gap management") and soft tissue / wound healing management.

Different grafting materials, barrier membranes and healing agents are being used to support safe, enduring stability of the implant inside the bony compartment as well as sufficient hard and soft tissue to ensure esthetics.

Bone grafting materials	Product	Reason why
Allograft	Straumann Allograft (Cortical, Cancellous, C/C mix, Min/Demin)	Fast graft to bone turnover supporting early and long-term implant stability Full remodeling potential Bone vitality
Xenograft	- Straumann Xenograft - Straumann Xenoflex - Cerabone	Long-term graft presence supporting volume preservation
Synthetic alternative	Straumann® BoneCeramic™	Prolonged graft to bone turnover Volume preservation

Barrier membranes prohibit the penetration of cells, primarily epithelial, through its structure and thus allow the slow growing bone tissue to re-occupy the grafted space.

Barrier Membranes	Product	Reason why
Porcine collagen membrane	Straumann Jason® membrane	Very thin but strong structure Easy handling Prolonged barrier function Fully resorbable
	Straumann® Membrane Flex	Appropriate barrier function for non-complex cases Easy handling Fully resorbable
Bovine collagen membrane	Straumann® Membrane Plus	Long barrier function Fully resorbable

5.6 Primary implant closure

TLX Implant Closure Caps, sterile					
	NT Closure Cap	RT Closure Cap	WT Closure Cap		
					
Compatibility	TLX Implant Ø3.75 TLX Implant Ø4.5				TLX Implant Ø5.5 TLX Implant Ø6.5
Recommended tightening torque	Hand-tight				
Article Number	0 mm: 036.3200S				
	1.5 mm: 036.0201S	1.5 mm: 036.1201S			–
Material	Titanium				

TLX Implant Healing Caps, sterile					
	NT Healing cap	RT Healing cap	WT Healing cap		
Compatibility	TLX Implant Ø3.75 TLX Implant Ø4.5				TLX Implant Ø5.5 TLX Implant Ø6.5
Recommended tightening torque	Hand-tight				
Article Number	3 mm: 036.0203S 4.5 mm: 036.0204S		2 mm: 036.1202S 3 mm: 036.1203S 4.5 mm: 036.1204S		2 mm: 036.2202S 3 mm: 036.2203S 4.5 mm: 036.2204S
	Titanium				

Note: Since the TLX closure caps and healing caps cover the whole implant shoulder, gingiva, bone particles or bone graft particle can easily be trapped between closure cap or healing cap and implant. It's recommended to clean the implant connection thoroughly prior to the placement of the closure cap or healing cap and to check the proper seating prior to wound closure. e.g. visually or by taking an X-ray.

6. Prosthetic workflow overview

6.1 Abutment overview

	Straumann® Cementable Abutment	Straumann® Variobase® for Crown	Variobase® for Bridge/Bar Cylindrical	Variobase® for Crown AS	Straumann® CARES® Abutment TAN	Straumann® CARES® Abutment CoCr S	Straumann® CARES® Abutment CoCr AS	Straumann® CARES® Bridge/Bar	Straumann® Novaloc® TiN
Single crown									
Screw-retained		•		•		•	•		
Cement-retained	•	•		•	•		•		
Bridge									
Screw-retained			•			•		•	
Cement-retained	•		•					•	
Removable overdentures									
Telescope	•								
Retentive anchor									•
Bar					•		•		
Impression									
Implant level	•	•	•	•					
Abutment level									
Material*	Titanium alloy				Cobalt Chromium			Titanium alloy	

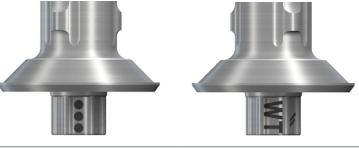
	Single and multi-unit replacement		Edentulous treatment	
	Screw-retained	Cement-retained	Fixed	Removable
Premium				
			CARES® Advanced Fixed Bar	
Advanced	 CARES® Screw-retained Bridge	 CARES® Abutment CoCr S/AS	 CARES® Basic Fixed Bar	 CARES® Milled Bar
		 CARES® Abutment TAN	 CARES® Screw-retained Bridge	
Standard	 Variobase® for Crown	 Variobase® for Crown AS	 Variobase® for Bridge/Bar	 Novaloc® TiN
		 Variobase® for Bridge/Bar		

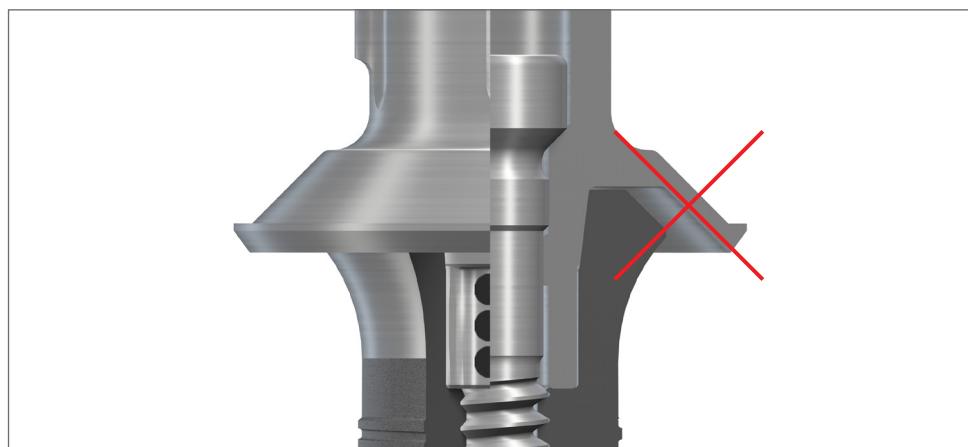
6.2 Laser Marking

The Straumann® TLX Implant System has a simple and consistent laser marking for quick and precise identification of secondary parts, and auxiliaries.

This concept allows for correct identification of matching components, and simplifies the communication between the individuals involved in the treatment process.

- Components laser-marked NT (Narrow, TorcFit™) and with one dot can be used on all TLX Implants with the NT shoulder.
- Components laser-marked RT (Regular, TorcFit™) and with two dots can be used on all TLX implants with the RT shoulder.
- Components laser-marked WT (Wide, TorcFit™) and with three dots can be used on all TLX implants with the WT shoulder.

	Prosthetic platform	Implant Diameters	Implant platform
NT ●	One dot 	$\varnothing 3.75 \text{ mm}$ $\varnothing 4.5 \text{ mm}$	NT 
RT ●●	Two dots 	$\varnothing 3.75 \text{ mm}$ $\varnothing 4.5 \text{ mm}$	RT 
WT ●●●	Three dots 	$\varnothing 5.5 \text{ mm}$ $\varnothing 6.5 \text{ mm}$	WT 



No WT Abutments on NT and RT Implants!

No NT Abutments on RT and WT Implants!

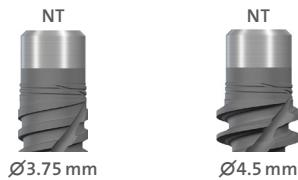
No RT Abutments on NT and WT Implants!

6.2.1 How to match fitting components

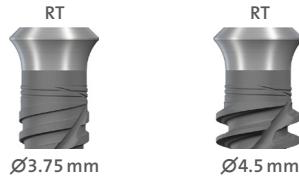
To quickly find the matching components, refer to the platform name (NT, RT or WT) and/or to the dot concept on the product label.

	TLX Implant Label	TLX Prosthetic Component Label
NT Platform	<p>TLX SP NT Ø3.75 Roxolid® SLActive® 12</p> <p>TLX SP Implant Ø 3.75mm NT SLActive® 12mm, Roxolid®</p> <p>de Implantat fr Implant it Impianto pt Implante es Implante</p> <p>zzzzzzzzzz Pat.: pat.straumann.com EC REP MD EC IMP Etikon GmbH Lochhamer Schlag 6 DE-82166 Gräfelfing Germany</p>	<p>NT Variobase® for Crown incl. Schraube, Ø 4mm, AH 5.5mm, TAN REF 037.0201 LOT XXXXX</p> <p>de NT Variobase® für Krone incl. Schraube, Ø 4mm, AH 5.5mm, TAN fr NT Variobase® pour couronne avec vis, Ø 4mm, AH 5.5mm, TAN it NT Variobase® per corona incl. vite, Ø 4mm, AH 5.5mm, TAN pt NT Variobase® para coroa incl. parafuso, Ø 4mm, AH 5.5mm, TAN es NT Variobase® para corona incl. tornillo, Ø 4mm, AH 5.5mm, TAN</p> <p>Qty.: 1 MD Rx only Pat.: pat.straumann.com ifu.straumann.com  0123  YYYY-MM-DD</p> <p>straumann  </p> <p>REF 037.0201  LOT XXXXX</p> <p>REF 037.0201  LOT XXXXX</p> <p>REF 037.0201  EC REP EC IMP  Etikon GmbH Lochhamer Schlag 6 DE-82166 Gräfelfing, Germany</p>
RT Platform	<p>TLX SP RT Ø3.75 Roxolid® SLActive® 12</p> <p>TLX SP Implant Ø 3.75mm RT SLActive® 12mm, Roxolid®</p> <p>de Implantat fr Implant it Impianto pt Implante es Implante</p> <p>zzzzzzzzzz Pat.: pat.straumann.com EC REP MD EC IMP Etikon GmbH Lochhamer Schlag 6 DE-82166 Gräfelfing Germany</p>	<p>RT Variobase® for Crown incl. Schraube, Ø 5mm, AH 6mm, TAN REF 037.1201 LOT XXXXX</p> <p>de RT Variobase® für Krone incl. Schraube, Ø 5mm, AH 6mm, TAN fr RT Variobase® pour couronne avec vis, Ø 5mm, AH 6mm, TAN it RT Variobase® per corona incl. vite, Ø 5mm, AH 6mm, TAN pt RT Variobase® para coroa incl. parafuso, Ø 5mm, AH 6mm, TAN es RT Variobase® para corona incl. tornillo, Ø 5mm, AH 6mm, TAN</p> <p>Qty.: 1 MD Rx only Pat.: pat.straumann.com ifu.straumann.com  0123  YYYY-MM-DD</p> <p>straumann  </p> <p>REF 037.1201  LOT XXXXX</p> <p>REF 037.1201  LOT XXXXX</p> <p>REF 037.1201  EC REP EC IMP  Etikon GmbH Lochhamer Schlag 6 DE-82166 Gräfelfing, Germany</p>
WT Platform	<p>TLX SP WT Ø 5.5 Roxolid® SLActive® 12</p> <p>TLX SP Implant Ø 5.5mm WT SLActive® 12mm, Roxolid®</p> <p>de Implantat fr Implant it Impianto pt Implante es Implante</p> <p>zzzzzzzzzz Pat.: pat.straumann.com EC REP MD EC IMP Etikon GmbH Lochhamer Schlag 6 DE-82166 Gräfelfing Germany</p>	<p>WT Variobase® for Crown incl. Schraube, Ø 7mm, AH 6.5mm, TAN REF 037.2201 LOT XXXXX</p> <p>de WT Variobase® für Krone incl. Schraube, Ø 7mm, AH 6.5mm, TAN fr WT Variobase® pour couronne avec vis, Ø 7mm, AH 6.5mm, TAN it WT Variobase® per corona incl. vite, Ø 7mm, AH 6.5mm, TAN pt WT Variobase® para coroa incl. parafuso, Ø 7mm, AH 6.5mm, TAN es WT Variobase® para corona incl. tornillo, Ø 7mm, AH 6.5mm, TAN</p> <p>Qty.: 1 MD Rx only Pat.: pat.straumann.com ifu.straumann.com  0123  YYYY-MM-DD</p> <p>straumann  </p> <p>REF 037.2201  LOT XXXXX</p> <p>REF 037.2201  LOT XXXXX</p> <p>REF 037.2201  EC REP EC IMP  Etikon GmbH Lochhamer Schlag 6 DE-82166 Gräfelfing, Germany</p>

6.3 Prosthetic components overview



Impression Taking Implant Analogs	036.0000	036.0001	036.0002	036.3220	036.0100	036.1102	
	Cement-retained		Screw-retained		Fixed	Removable	
Temporary Abutment Crown			 037.0000				
Temporary Abutment Bridge			 037.0001				
Cementable Abutment	 037.0100				—		
Variobase® Abutment	037.0201	037.0203	 037.0204				
CARES® Abutment							
CARES® Bridge/Bar	—			 CARES® Screw-retained Bridge  CARES® Advanced Fixed Bar  CARES® Basic Fixed Bar		 CARES® Milled Bar	
Novaloc® TiN	—						



Impression Taking Implant Analogs		Ø3.75 mm	Ø4.5 mm					
		036.1000	036.1001	036.1002	036.3220	036.0102	036.2100	
		Cement-retained		Screw-retained		Fixed	Removable	
Temporary Abutment Crown			037.1000					
Temporary Abutment Bridge				037.1001				
Cementable Abutment			037.1100					
Variobase® Abutment			037.0201	037.0203	037.0204			
CARES® Abutment								
CARES® Bridge/Bar			—		CARES® Screw-retained Bridge	CARES® Advanced Fixed Bar	CARES® Milled Bar	
Novaloc® TiN			—		CARES® Basic Fixed Bar		Novaloc® TiN	

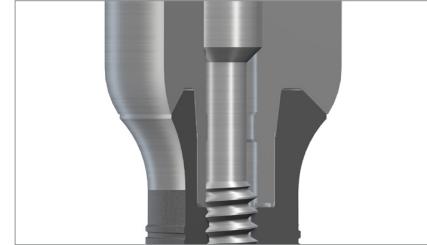
		WT	WT		
		$\varnothing 5.5$ mm	$\varnothing 6.5$ mm		
Impression Taking Implant Analogs		036.2000	036.2001	036.2002	036.3220
Temporary Abutment Crown					036.1100
Temporary Abutment Bridge					036.2102
Cementable Abutment					
Variobase® Abutment	Cement-retained	037.2000	Screw-retained		
CARES® Abutment		037.2100			
CARES® Bridge/Bar		037.0201	037.0203	037.0204	
Novaloc® TiN					

7. Important considerations

7.1 How to verify correct impression post seating

TLX impression post screws will only engage with the implant if correctly seated. Correctly seated impression posts sealing at the shoulder of the implant.

- On the TLX implants only TLX auxiliary and prosthetic components are meant to be inserted for an ideal seat.
- Do not use BLX auxiliary and prosthetic components on the TLX implants.
- Do not use TLX auxiliary and prosthetic components on the BLX implants.

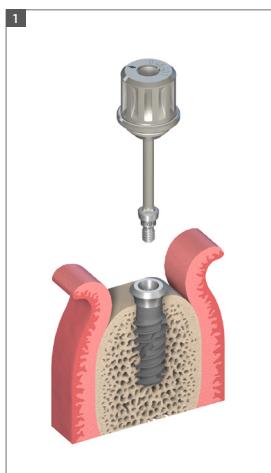


8. Soft tissue management

After implantation, the implant is closed – hand-tightened – with a Closure Cap or a Healing Cap or immediately loaded with a final abutment to protect the implant. With the Closure Cap or the Healing Cap, the surgeon can choose between submucosal and transmucosal healing and has all options available for soft tissue management made possible through a set of secondary healing components. The closure cap and healing cap are recommended for intermediate use. After the soft-tissue healing phase they are replaced with the appropriate temporary or final restoration.

8.1 Submucosal healing

For submucosal healing (healing under closed mucoperiosteal flap) the use of a Closure Cap or shorter Healing Cap 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.



Step 1 – Inserting the Closure Cap or the short Healing Cap (1.5 mm) after first surgery

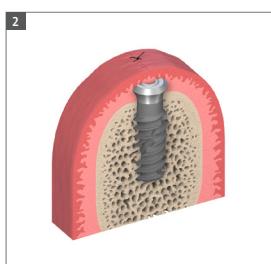
Ensure that the internal configuration of the implant is clean.

Pick up the Closure Cap or the short Healing Cap with the SCS Screwdriver. The friction fit will secure the Closure Cap or the short Healing Cap to the instrument during insertion and will allow safe handling.

Hand-tighten the Closure Cap or the short Healing Cap. The design will provide a tight connection between the two components.

Note: All Closure Cap or a short Healing Cap are delivered sterile and ready to use.

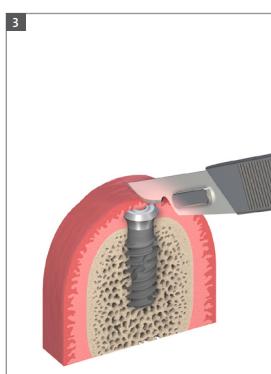
Subsequent loosening is made easier by applying chlorhexidine gel or sterile Vaseline to the Closure Cap or a short Healing Cap before it is screwed into the implant.



Step 2 – Wound closure

Adapt the mucoperiosteal flaps carefully and suture together with interrupted sutures.

Make sure a tight seal is formed over the implant.

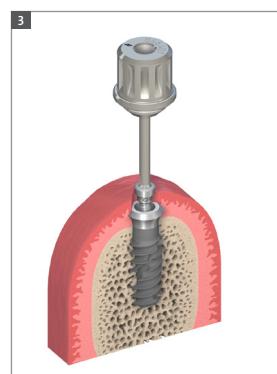


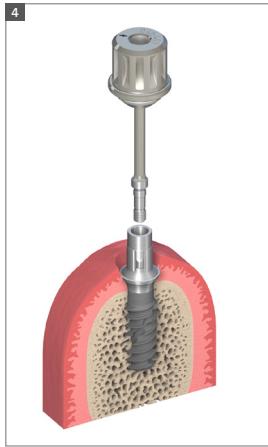
Step 3 – Reopening and removal: second surgery

Locate the implant.

Make a small crestal incision down to the Closure Cap or a short Healing Cap.

Spread the flap slightly and remove the Closure Cap or a short Healing Cap with the SCS Screwdriver.





Step 4 – Insertion and wound closure

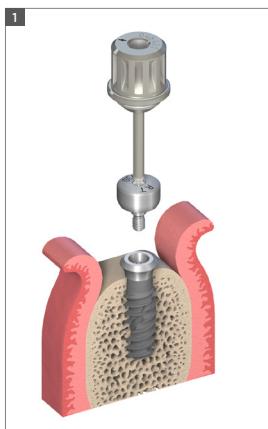
Rinse the exposed internal connection of the implant thoroughly with sterile saline solution.

Insert a suitable secondary component.

Adapt the soft tissue and suture it back tightly without tension around the secondary component.

8.2 Transmucosal healing

A versatile portfolio of Healing Caps is available for all Straumann® implants enabling soft-tissue sculpturing during transmucosal healing.



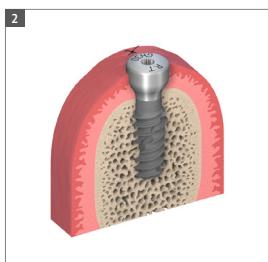
Step 1 – Insertion

Ensure that the internal configuration of the implant is clean and bloodless.

Insert the Healing Cap with the SCS Screwdriver. The friction fit secures the components to the instrument during insertion and ensures safe handling.

Hand-tighten the Healing Cap. The design will provide a tight connection between the two components.

Note: All Healing Caps are delivered sterile and ready to use. Subsequent loosening is made easier by applying chlorhexidine gel or sterile Vaseline to the Healing Cap before it is screwed into the implant.



Step 2 – Wound closure

Adapt the soft tissue and suture it back tightly around the Healing Cap.

9. Temporary restoration

9.1 Prefabricated healing cap made of Titanium grade 4

9.1.1 Intended use

- Soft tissue management
- Closure of implant connection for submerged and non-submerged healing

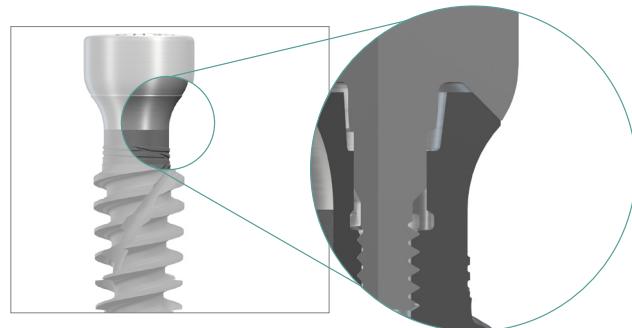
9.1.2 Characteristics

Simple

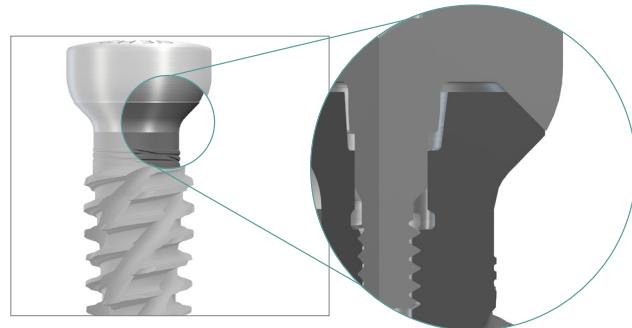
- One-piece design
- Laser-marked diameters and gingiva heights on the flat top
- Cylindrical section gives space to soft tissue

Reliable

- Tight sealing on the outer shoulder of implant
- Keep inner connection untouched

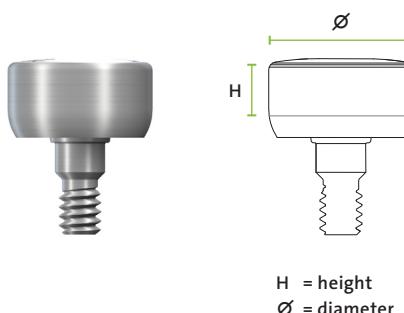


RT healing cap sealing mechanism



WT healing cap sealing mechanism

9.1.3 Overview of healing cap dimensions



		Diameter (\phi)		
		For final abutment NT	For final abutment RT	For final abutment WT
H	0 mm	\phi 2.7 mm		
	1.5 mm	\phi 4.0 mm	\phi 5.5 mm	-
	2 mm	-		
	3 mm	\phi 4.0 mm		\phi 7.2 mm
	4.5 mm			

9.2 Temporary abutment – titanium alloy (TAN)

9.2.1 Intended use

- Cement-retained temporary crowns

9.2.2 Characteristics

More solutions

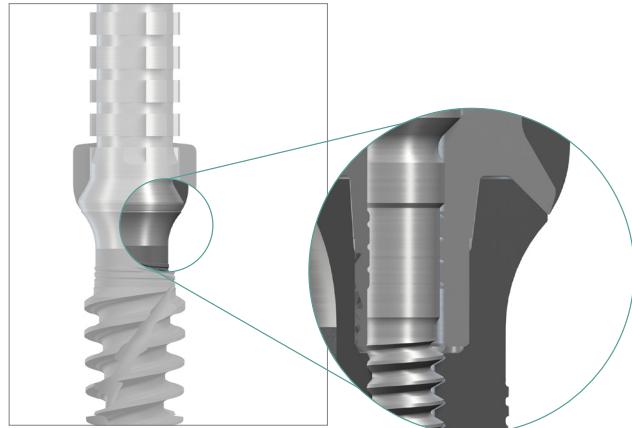
- Narrow diameter for narrow interdental spaces
- Crowns
- Anterior and posterior region
- Laser marked connection

Reliable

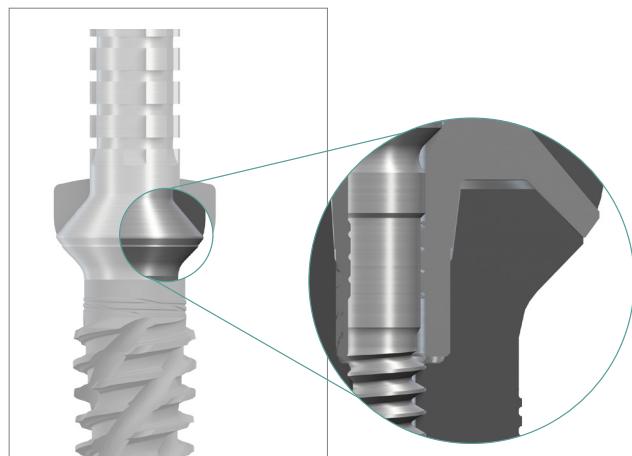
- High stability due to titanium alloy (TAN) material
- TLX connection for engaging and none-engaging abutments
- Tight sealing on the outer shoulder of implant
- Keep inner connection untouched

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 standard tools and procedures.



RT temporary abutment



WT temporary abutment

9.2.3 Overview of temporary abutment

Implant shoulder Ø3.5mm NT		Implant shoulder Ø4.8mm RT		Implant shoulder Ø6.5mm WT	
Crown	Bridge	Crown	Bridge	Crown	Bridge
					
037.0000	037.0001	037.1000	037.1001	037.2000	037.2001

Fabrication of the temporary restoration on implant shoulder Ø3.5mm NT, Ø4.8mm RT and implant shoulder Ø6.5mm WT is identical.



Chairside fabrication:

The posts are shortened below the occlusion level and the occlusal openings are sealed with wax or cotton wool. To avoid the titanium showing through the resin, coating the posts with opaquer prior to veneering is recommended.

The temporary restoration is fabricated with the usual standard techniques. For instance vacuum-formed foil or, as in conventional fabrication of temporaries, with strip crowns filled with resin which are attached to the post. After biting down, the excess is removed and after curing, the crown/bridge is removed, polished and the occlusal screw channels are opened again.



Fabrication in the laboratory:

The posts can be veneered by grinding ready-made acrylic teeth or by direct modelling with resin. This option is suitable especially if there is a silicone index of the wax-up. The TAN posts are silanised to ensure better adhesion of the resin. To avoid the titanium showing through the resin, coating the posts with opaquer prior to veneering is recommended. The temporary is made with veneering resin. Integration of a metal reinforcement between the posts is recommended for bridge constructions.

Important: the prefabricated TAN posts cannot be used for the casting technique.

When inserting the posts, we recommend a tightening torque of:
- 15 Ncm.

Important: the temporary abutments must not remain in situ for more than 6 months and the restoration must always be under-occluded in order to reduce lateral forces.

10. Impression taking

10.1 Conventional implant level impression taking

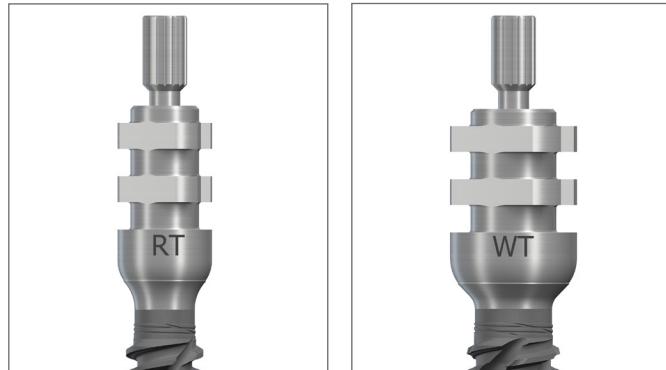
10.1.1 Intended use

- Closed-tray impression procedure
- Open-tray impression procedure

10.1.2 Characteristics

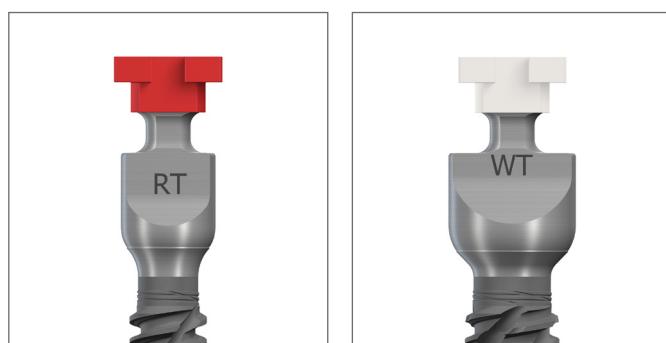
Simple

- Laser-Marked & color-coded components for easy information transfer from mouth to master model
- Color-coded closed-tray impression post for easy information transfer from mouth to master model
- Guide screw can be tightened either by hand or with the SCS screwdriver (15 Ncm)



Reliable

- Seating on top portion of implant shoulder ensures high accuracy
- Clear-cut tactile response from the prosthetic connection verifies proper seating of components
- Easy removal

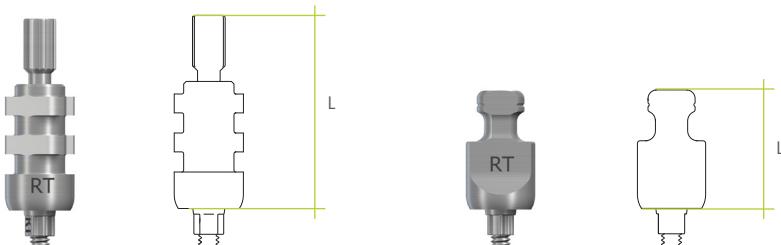


Note: Open-tray impression procedure requires a custom-made tray or tray with perforations.

Impression posts are intended for single use to ensure optimal fit and precise impression taking for each patient.

Impression posts are supplied non-sterile.

10.1.3 Overview of impression post dimensions



L = length

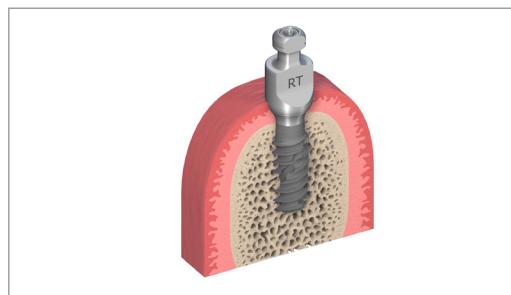
L = Length	
Short	Long
Impression post – Open tray	15 mm
Impression post – Closed tray	9.5 mm

10.2 Closed-tray impression procedure “Screwed”

Implant shoulder Ø3.5mm NT	Implant shoulder Ø4.8mm RT	Implant shoulder Ø6.5mm WT			
NT Impression Post Closed Tray, with 1 guide screw & 2 caps	NT Implant Analog	RT Impression Post Closed Tray, with 1 guide screw & 2 caps	RT Implant Analog	WT Impression Post Closed Tray, with 1 guide screw & 2 caps	WT Implant Analog
 036.0002	 036.0100	 036.1002	 036.0102	 036.2002	 036.1100

The impression-taking procedures for implant shoulder Ø3.5mm NT, Ø4.8mm RT and implant shoulder Ø6.5mm WT is identical.

Important: Only the integral impression post must be used. The margin and the TorcFit™ connection must not be damaged to ensure accuracy of the transfer procedure. The impression post is delivered non-sterile and intended for single use only.



Step 1 – Positioning the Impression Post

- Ensure sufficient access to the implant site in order to avoid pinching in the gingival tissue.
- Clean the internal configuration of the implant thoroughly from blood, tissue, etc. prior to the impression procedure.
- Place the impression post accurately into the implant and tighten the guide screw hand-tight (using the SCS screwdriver)



Note: Ensure that the lateral planar area of the post is facing mesial and distal.

- Place the polymer impression cap on top of the fixed impression post. Ensure that the color of the cap corresponds to the platform name or to the dots concept of the impression post and that the arrows are aligned with the oral-vestibular direction.
- Push the impression cap in apical direction until it clicks. The impression cap is now firmly seated on the impression post.



Step 2 – Impression taking

- Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

Note: Due to its low tensile strength, hydrocolloid is not suitable for this application.

- Once the material is cured, carefully remove the tray. The impression cap remains in the impression material and therefore is automatically pulled off from the impression post with the removal of the tray.
- Unscrew and remove the impression post and send it together with the impression tray to the dental technician.

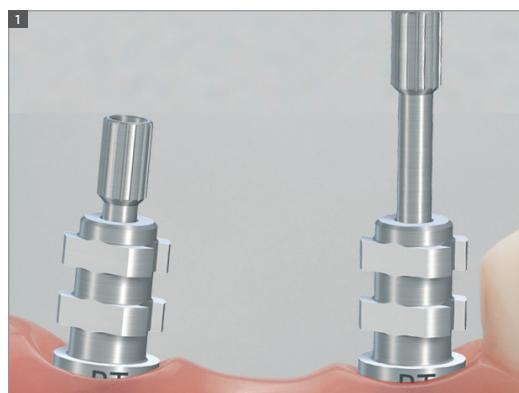
10.3 Open-tray impression procedure “Screwed”

Implant shoulder Ø3.5mm NT		Implant shoulder Ø4.8mm RT			Implant shoulder Ø6.5mm WT			
NT Impression Post Open Tray, short, incl. guide screw, H 15mm	NT Impression Post Open Tray, long, incl. guide screw, H 21mm	NT Implant Analog	RT Impression Post Open Tray, short, incl. guide screw, H 15mm	RT Impression Post Open Tray, long, incl. guide screw, H 21mm	RT Implant Analog	WT Impression Post Open Tray, short, incl. guide screw, H 15mm	WT Impression Post Open Tray, long, incl. guide screw, H 21mm	WT Implant Analog
								
036.0000	036.0001	036.0100	036.1000	036.1001	036.0102	036.2000	036.2001	036.1100

The open-tray impression-taking procedure for implant shoulder Ø3.5mm NT, Ø4.8mm RT and implant shoulder Ø6.5mm WT is identical.

For this impression procedure a custom-made tray or tray with perforations is needed.

Important: Only the integral impression post must be used. The margin and the TorcFit™ connection must not be damaged to ensure accuracy of the transfer procedure. The impression post is delivered non-sterile and intended for single use only.



Step 1 – Positioning of the Impression Post

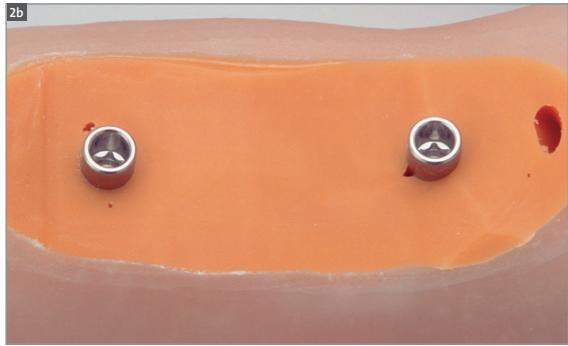
- Ensure sufficient access to the implant site in order to avoid pinching in the gingival tissue.
- Clean the internal configuration of the implant thoroughly from blood, tissue, etc. prior to the impression procedure.
- Place the impression post accurately into the implant and tighten the guide screw hand-tight (using the SCS screwdriver)



Step 2 – Impression taking

The custom-made tray (light-cured resin) contains perforations for the Impression Posts.

Note: Due to its low tensile strength, hydrocolloid is not suitable for this application.



The impression is taken using an elastomeric impression material (polyvinyl siloxane or polyether rubber).



Step 3 – Once cured, the Impression Post is loosened and the impression is removed



10.4 Digital impressions: Straumann® CARES® Mono Scanbody

10.4.1 Product description

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

TLX						
CARES® NT/RT/WT mono scan body for implant level scanning				CARES® Mono Scanbody for Screw-retained Abutment, for abutment level, Ø4.6 mm, PEEK/TAN		
 036.3220				 025.0001		
Compatibility	 036.0100	 036.0102	 036.1100	 036.1102	 036.2100	 036.2102
Number of components	2: scanbody, self-retaining screw					
Component/material	Scanbody: polymer (PEEK) Screw: titanium alloy (TAN)					

For detailed instructions how to use the CARES® Mono Scanbody, please refer to *Step-by-step instructions on the intraoral scanbodies, Basic Information* (NAMLIT.1187).

Metal scanbody: The titanium scanbody from Medentika® (LX 1400) is compatible with the Straumann® TLX Implant System.

For more information, please refer to the *Straumann eShop* (shop.straumann.com).

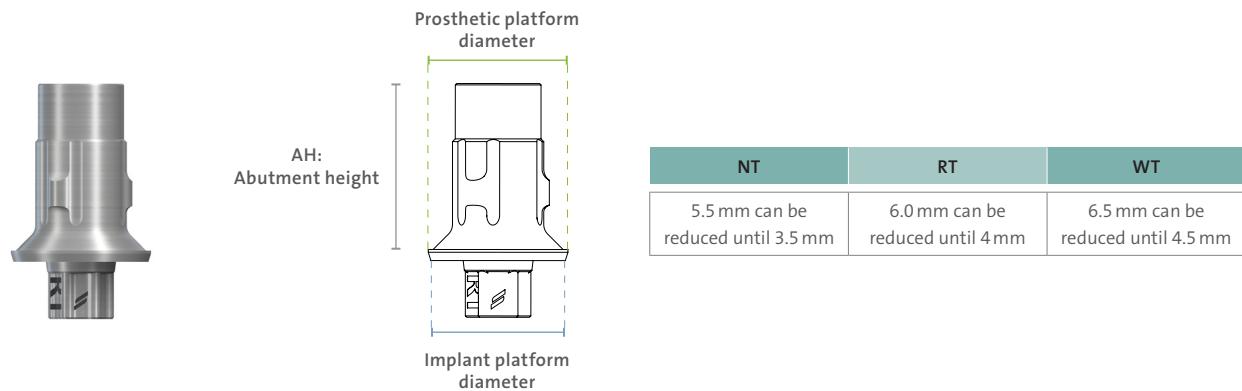


11. Final restoration

11.1 Straumann® Variobase®

The Straumann® Variobase® prosthetic components provide dental laboratories with the flexibility to create customized prosthetic restorations. In addition, Variobase® Abutments come with the benefit of the original Straumann® connection and the unique Straumann® engaging mechanism.

Single-unit restorations	 <p>Variobase® for Crown</p> <ul style="list-style-type: none">• Abutment heights:<ul style="list-style-type: none">• NT: 5.5 mm• RT: 6 mm• WT: 6.5 mm• Possibility to tailor the abutment height:<ul style="list-style-type: none">• NT 5.5 mm down to 3.5 mm• RT 6 mm down to 4 mm• WT 6.5 mm down to 4.5 mm
Single-unit restorations	 <p>Variobase® for Crown AS</p> <ul style="list-style-type: none">• Screw-channel angulation of up to 25°• Abutment heights:<ul style="list-style-type: none">• NT: 6.5mm• RT: 7.0mm• WT: 7.5mm
Multi-unit and full-arch restoration	 <p>Variobase® for Bridge/Bar</p> <ul style="list-style-type: none">• Cementation Aid for Variobase® for Bridge/Bar Cylindrical supporting an easy cementation procedure



11.1.1 Variobase® component overview

Following Variobase® prosthetic components cover the the TLX Implant platforms:

	NT	RT	WT
	$\varnothing 3.5$ mm	$\varnothing 4.8$ mm	$\varnothing 6.5$ mm
Abutments Variobase® for Crown			
	037.0201	037.1201	037.2201
Burn-out Copings for Variobase® for Crown			
	037.0211	037.1211	037.2211
Screws for Variobase® for Crown	036.3110		
	NT	RT	WT
	$\varnothing 3.5$ mm	$\varnothing 4.8$ mm	$\varnothing 6.5$ mm
Abutments Variobase® for Crown AS			
	037.0203	037.1203	037.2203
Burn-out Copings for Variobase® for Crown AS			
	037.0212	037.1212	037.2212
Screws for Variobase® for Crown AS	036.3111		
	NT	RT	WT
	$\varnothing 3.5$ mm	$\varnothing 4.8$ mm	$\varnothing 6.5$ mm
Abutments Variobase® for Bridge/Bar Cylindrical			
	037.0204	037.1204	037.2204
Cementation Aid	160.3		
Burn-out Copings for Variobase® for Bridge/Bar Cylindrical			
	037.0213	037.1213	037.2213
Screws for Variobase® for Bridge/Bar Cylindrical	036.3110		

For detailed instructions on how to use Variobase® Abutments, please refer to *Straumann® Variobase® Basic Information (702087/ en)*.

11.2 Straumann® Novaloc® Abutments

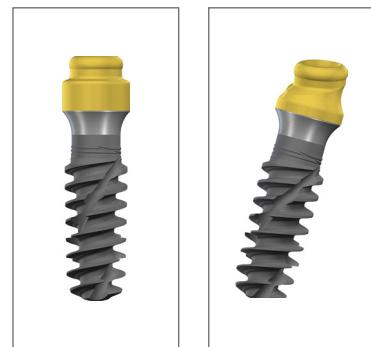
The Straumann® Novaloc® Retentive System for hybrid dentures offers up to 40° implant divergence. Both the straight and 15° angled abutments are available in various abutment heights, covering a broad range of clinical implant situations. Together with its durable PEEK² matrices, the Novaloc® Retentive System provides a unique and long-lasting attachment performance.

Characteristics

- PEEK² matrix inserts offering excellent chemical and physical properties
- Matrix accommodates up to 40° prosthetic divergence between two abutments
- 6 retention strengths offer optimal adjustment of the denture retention
- Matrix Housing available in titanium, or color-neutral PEEK² for a more aesthetic outcome

→ for excellent wear resistance

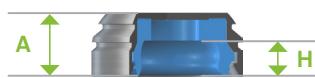
For detailed instructions on how to use TLX Novaloc® Abutments, please refer to *Straumann® Novaloc® Retentive System for Hybrid Dentures* (USLIT.1119).



² Polyether ether ketone

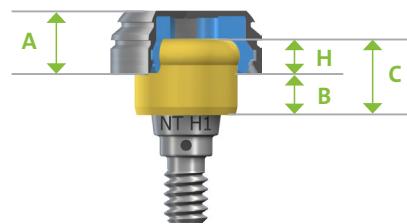
TLX Novaloc® Matrix Dimensions

	A	H
Novaloc® Matrix	2.3	1.4



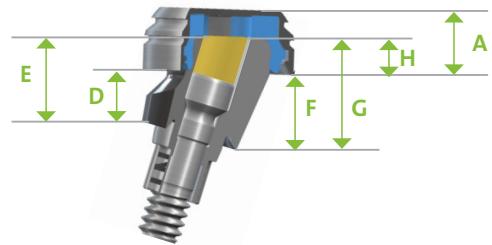
TLX Novaloc® Straight Abutment Dimensions

		B	C
TLX NT	Novaloc® H1	1.35	2.75
	Novaloc® H2	2.35	3.75
	Novaloc® H3	3.35	4.75
	Novaloc® H4	4.35	5.75
	Novaloc® H5	5.35	6.75
	Novaloc® H6	6.35	7.75
TLX RT	Novaloc® H1	1.5	2.9
	Novaloc® H2	2.5	3.9
	Novaloc® H3	3.5	4.9
	Novaloc® H4	4.5	5.9
	Novaloc® H5	5.5	6.9
	Novaloc® H6	6.5	7.9
TLX WT	Novaloc® H1	1.7	3.1
	Novaloc® H2	2.7	4.1
	Novaloc® H3	3.7	5.1
	Novaloc® H4	4.7	6.1
	Novaloc® H5	5.7	7.1
	Novaloc® H6	6.7	8.1



TLX Novaloc® Angled Abutment Dimensions

		Short side		Long side	
		D	E	F	G
TLX NT	Novaloc® H2	1.8	3.2	2.7	4.1
	Novaloc® H3	2.7	4.1	3.7	5.1
	Novaloc® H4	3.7	5.1	4.6	6.0
	Novaloc® H5	4.7	6.1	5.6	7.0
	Novaloc® H6	5.6	7.0	6.6	8.0
TLX RT	Novaloc® H2	1.8	3.2	3.0	4.4
	Novaloc® H3	2.7	4.1	4.0	5.4
	Novaloc® H4	3.7	5.1	5.0	6.4
	Novaloc® H5	4.7	6.1	5.9	7.3
	Novaloc® H6	5.6	7.0	6.9	8.3
TLX WT	Novaloc® H2	1.8	3.2	3.5	4.9
	Novaloc® H3	2.7	4.1	4.4	5.8
	Novaloc® H4	3.7	5.1	5.4	6.8
	Novaloc® H5	4.7	6.1	6.4	7.8
	Novaloc® H6	5.6	7.0	7.3	8.7



11.3 Straumann® Cementable Abutments straight and angled for crowns and bridges

Intended use

- Cement retained restorations

Characteristics

- 0° and 15°
- Due to their design, Angled Abutments must not be trimmed or individually modified.
- A tightening torque of 35 Ncm is recommended for inserting the abutments.

In situations where a screw-retained solution is contraindicated, the dental technician can fabricate a cement-retained superstructure directly with this abutment.

Cement-retained bridge constructions in combination with implant shoulders of Ø3.5 mm NT, Ø4.8 mm RT and Ø6.5 mm WT are also possible. The abutment can be shortened on the master cast if required.



A) Fabrication of the superstructure

Insert the abutment in the TLX Analog using an SCS Screwdriver.

Important: The abutment must be properly positioned in the TorcFit™ before the screw is tightened.

The screw is tightened by hand using the SCS Screwdriver



B) Process of the copings

Step 1 – Where occlusal space is limited, the abutment can be shortened and the post height shall not be shorter than 4.0 mm.

Important: The abutment must not be ground laterally but only shortened occlusally to maintain proper stability.

Step 2 – To facilitate the working procedure, prefabricated burn-out plastic copings are available to the dental technician. The copings are made from completely burn-out plastic (POM).

The Plastic Copings are equipped with a snap-on mechanism, which makes them easier to fix onto the TLX abutment. The snap-on mechanism of the BoC (3 small knobs inside the burn-out coping that click into the groove in the abutment) must be removed from the inside of the final cast in order for the crown to properly fit onto the abutment.



Step 3 – The Plastic Copings can also be shortened and are adjusted to the height of the shortened abutment.

The occlusal opening is sealed temporarily with wax or plastic. Waxing up then takes place directly over the Plastic Coping.



Step 4 – The investment material must be matched to the casting alloy used (follow the manufacturer's directions and recommendations).

Important: Burn-out plastics are characterized by the fact that they swell up when they are burned out. For this reason it is important that the outside of the Plastic Coping is completely covered with wax. The wax burns off and therefore creates sufficient space in the mold for expansion when burned out in the oven. There must be a wax layer of at least 0.3 mm in the marginal region (do not wax above the delicate margin). If there is insufficient waxing in the marginal region of the coping, there is a risk that the frustum will break in the interior of the invested coping, due to the effects of the expansion of the plastic in the mold.

Step 5 – The construction can now be veneered in the conventional way. The veneering materials must be matched to the alloy used (follow the manufacturer's directions and recommendations).



Fitting the final restoration

The restoration is delivered to the dentist with the original abutments on the master cast.

Remove the Healing Cap or temporary restoration. Thoroughly clean and dry the interior of the implants.

Unscrew the screws of the abutments from the master cast using an SCS Screwdriver and transfer the abutment in the patient's mouth. Use the SCS Screwdriver attached to the mounted basal screw for the transfer.

Important: Properly position the cleaned TLX cementable Abutment without the use of cement.

Tighten the abutment screw with the SCS Screwdriver along with the Ratchet (046.119) and Torque Control Device (046.049 or 066.1100).

Important: The abutment must first be properly positioned in the TorcFit™ connection of the implant before the screw is tightened.

Important: When the superstructure is cemented on top of the angled cementable abutment, the occlusal openings must be first re-sealed with wax or gutta-percha.

11.4 Straumann® CARES® Abutments

Intended use

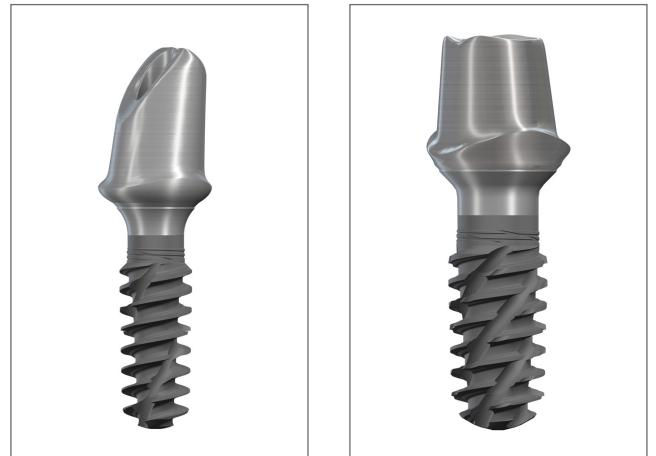
- Cement-retained crowns
- Cement-retained bridges via mesostructure
- Screw-retained (CARES® TAN), directly veneerable crowns

Material

- Titanium-Aluminium-Niobium (TAN)
- Cobalt-chromium alloy (coron®)

Characteristics

- Screw-retained one piece metal restorations
- Anatomic emergence profile
- A patient-specific emergence profile
- Straumann® Guarantee for Straumann® CARES® Abutments
- CoCr for direct veneering



For detailed instructions how to use CARES® abutments, please refer to *Straumann® CARES® Implant-borne prosthetics, Basic Information* (NAMLIT.1078).

11.5 Straumann® Pre-milled abutment blanks (PMAB)

Intended use

- Cement-retained crowns
- Cement-retained bridges

Material

- Titanium-Aluminium-Niobium (TAN)

Characteristics

- Produce original Straumann® one-piece customized titanium-alloy abutments with your in-house M, C, or D series milling equipment.



Note: RB, WB, NT, RT, WT PMAB (TAN) are not for direct veneering.

11.6 Straumann® Screw-retained Bars and Bridges (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®)

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 fitting of the CARES® SRBBs.

Master models with subsequently hand-tightened (< 35 Ncm) abutments may not accurately represent the oral situation and therefore 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 subsequently placed Screw-retained Abutments is ordered, the stone model with the torqued abutments is required for production.

For detailed instructions how to use CARES® abutments, please refer to *Straumann® CARES® Implant-borne prosthetics, Basic Information* (NAMLIT.1078).

Straumann® CARES® SRBB working conditions

Implant Level	Straumann® TLX Implants	CARES® SRBB are available on following Straumann® platforms	Divergence compensation between any two platforms		Screws for Straumann® CARES® SRBB
			Ti	coron®	
Implant Level	Straumann® TLX Implants	Narrow TorcFit™ (NT)	40°	Basal Screw, straight, TAN 036.3110	Basal Screw, straight, TAN 036.3110
		Regular TorcFit™ (RT)			
		Wide TorcFit™ (WT)			

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. 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 lab use, only use the screws mentioned in the chart above

11.7 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 of the master cast or of the intra-oral situation by using our STL-Files upload service
- Traditional workflows – 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

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

Note: For detailed information on all Straumann® CARES® offerings, please see *Basic Information Straumann® CARES® Scan & Shape* (NAMLIT.1078).

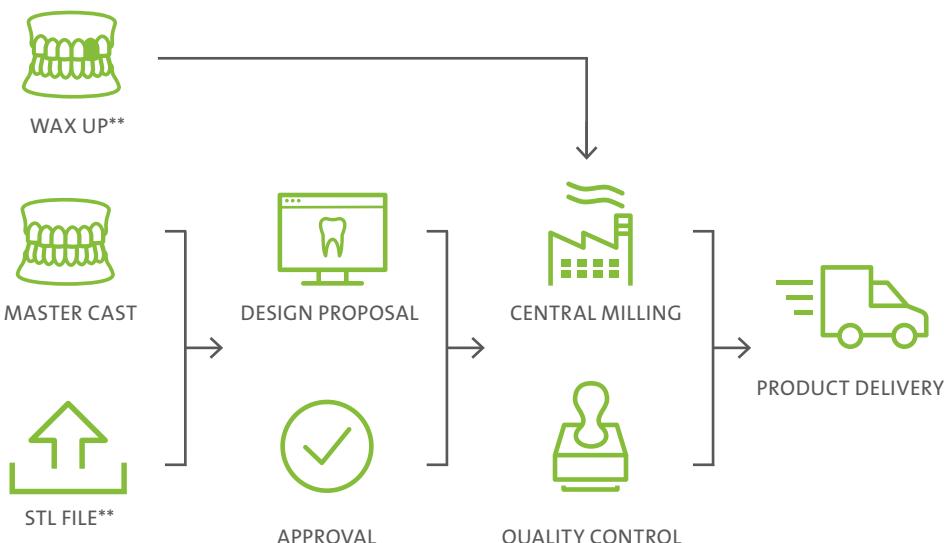
*Not all products, services and workflows are available in all countries. Please contact your sales representative for a detailed overview.

11.7.1 Straumann® CARES® Scan & Shape workflow overview*

Even CAD/CAM 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 STL files of the master cast or of the intra-oral situation.

Digital functionality**

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



Simple workflow

Log onto Straumann® CARES® Scan & Shape Online

- 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

Scan & Shape online platform product portfolio

For a complete overview of the Straumann® CARES® Scan & Shape product portfolio, consult *Straumann® CARES® Scan & Shape, Basic Information* (NAMLIT.1078) or contact your local Straumann® representative.



* 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.

11.8 Smile in a Box™

Smile in a Box™ is a flexible treatment planning and manufacturing service which helps to grow and develop your dental practice. Our offering drives value by improving patient acceptance and allowing access to digital dentistry without investment. Gain more efficiency by reducing chair-time with immediate treatment protocols. Increase the level of confidence in implant placement through a more predictable workflow using guided surgery. Focus on your passion by choosing what you outsource to us and what steps to keep in house. Scale your business - no matter where you are in your practice growth plans.



12. Further Information

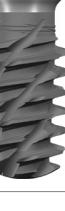
For further information, please consult the following brochures:

- *Straumann® Modular Cassette, Basic Information* (USLIT.1291)
- *Straumann® VeloDrill™ System for Guided Surgery, Basic Information* (USLIT.1277)
- *Straumann® Drill stop, Basic Information* (NAMLIT.1347)
- *Straumann® Modular Cassette Selection Guide, Basic Information* (NAMLIT.1297)
- *Straumann® Bone Level Prosthetic Procedures, Basic Information* (USLIT.232)
- *Straumann® Variobase® Basic Information* (USLIT.1074)
- *Straumann® Novaloc® Retentive System for Hybrid Dentures* (USLIT.1119)
- *Straumann® CARES® Scan & Shape, Basic Information* (USLIT.1078)
- *Step-by-step instructions on the intraoral scanbodies, Basic Information* (NAMLIT.1187)

13. Product reference List

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

13.1 TLX Standard Plus SLActive Implants

Art. No.	Image	Article	Dimensions	Material
035.3008S		Straumann® TLX SP Implant	Ø3.75 mm NT SLActive® 8 mm	Roxolid®
035.3010S			Ø3.75 mm NT SLActive® 10 mm	
035.3012S			Ø3.75 mm NT SLActive® 12 mm	
035.3014S			Ø3.75 mm NT SLActive® 14 mm	
035.3016S			Ø3.75 mm NT SLActive® 16 mm	
035.3018S			Ø3.75 mm NT SLActive® 18 mm	
035.3108S		Straumann® TLX SP Implant	Ø3.75 mm RT SLActive® 8 mm	Roxolid®
035.3110S			Ø3.75 mm RT SLActive® 10 mm	
035.3112S			Ø3.75 mm RT SLActive® 12 mm	
035.3114S			Ø3.75 mm RT SLActive® 14 mm	
035.3116S			Ø3.75 mm RT SLActive® 16 mm	
035.3118S			Ø3.75 mm RT SLActive® 18 mm	
035.3406S		Straumann® TLX SP Implant	Ø4.5 mm NT SLActive® 6 mm	Roxolid®
035.3408S			Ø4.5 mm NT SLActive® 8 mm	
035.3410S			Ø4.5 mm NT SLActive® 10 mm	
035.3412S			Ø4.5 mm NT SLActive® 12 mm	
035.3414S			Ø4.5 mm NT SLActive® 14 mm	
035.3416S			Ø4.5 mm NT SLActive® 16 mm	
035.3418S			Ø4.5 mm NT SLActive® 18 mm	
035.3506S		Straumann® TLX SP Implant	Ø4.5 mm RT SLActive® 6 mm	Roxolid®
035.3508S			Ø4.5 mm RT SLActive® 8 mm	
035.3510S			Ø4.5 mm RT SLActive® 10 mm	
035.3512S			Ø4.5 mm RT SLActive® 12 mm	
035.3514S			Ø4.5 mm RT SLActive® 14 mm	
035.3516S			Ø4.5 mm RT SLActive® 16 mm	
035.3518S			Ø4.5 mm RT SLActive® 18 mm	
035.3706S		Straumann® TLX SP Implant	Ø5.5 mm WT SLActive® 6 mm	Roxolid®
035.3708S			Ø5.5 mm WT SLActive® 8 mm	
035.3710S			Ø5.5 mm WT SLActive® 10 mm	
035.3712S			Ø5.5 mm WT SLActive® 12 mm	
035.3806S		Straumann® TLX SP Implant	Ø6.5 mm WT SLActive® 6 mm	Roxolid®
035.3808S			Ø6.5 mm WT SLActive® 8 mm	
035.3810S			Ø6.5 mm WT SLActive® 10 mm	
035.3812S			Ø6.5 mm WT SLActive® 12 mm	

13.2 TLX Standard Plus SLA Implants

Art. No.	Image	Article	Dimensions	Material
035.2006S		Straumann® TLX SP Implant	Ø3.75 NT, SLA® 6mm	Roxolid®
035.2008S			Ø3.75 NT, SLA® 8mm	
035.2010S			Ø3.75 NT, SLA® 10mm	
035.2012S			Ø3.75 NT, SLA® 12mm	
035.2014S			Ø3.75 NT, SLA® 14mm	
035.2016S			Ø3.75 NT, SLA® 16mm	
035.2018S			Ø3.75 NT, SLA® 18mm	
035.2106S		Straumann® TLX SP Implant	Ø3.75 RT, SLA® 6mm	Roxolid®
035.2108S			Ø3.75 RT, SLA® 8mm	
035.2110S			Ø3.75 RT, SLA® 10mm	
035.2112S			Ø3.75 RT, SLA® 12mm	
035.2114S			Ø3.75 RT, SLA® 14mm	
035.2116S			Ø3.75 RT, SLA® 16mm	
035.2118S			Ø3.75 RT, SLA® 18mm	
035.2406S		Straumann® TLX SP Implant	Ø4.5 NT, SLA® 6mm	Roxolid®
035.2408S			Ø4.5 NT, SLA® 8mm	
035.2410S			Ø4.5 NT, SLA® 10mm	
035.2412S			Ø4.5 NT, SLA® 12mm	
035.2414S			Ø4.5 NT, SLA® 14mm	
035.2416S			Ø4.5 NT, SLA® 16mm	
035.2418S			Ø4.5 NT, SLA® 18mm	
035.2506S		Straumann® TLX SP Implant	Ø4.5 RT, SLA® 6mm	Roxolid®
035.2508S			Ø4.5 RT, SLA® 8mm	
035.2510S			Ø4.5 RT, SLA® 10mm	
035.2512S			Ø4.5 RT, SLA® 12mm	
035.2514S			Ø4.5 RT, SLA® 14mm	
035.2516S			Ø4.5 RT, SLA® 16mm	
035.2518S			Ø4.5 RT, SLA® 18mm	
035.2706S		Straumann® TLX SP Implant	Ø5.5 WT, SLA® 6mm	Roxolid®
035.2708S			Ø5.5 WT, SLA® 8mm	
035.2710S			Ø5.5 WT, SLA® 10mm	
035.2712S			Ø5.5 WT, SLA® 12mm	
035.2806S		Straumann® TLX SP Implant	Ø6.5 WT, SLA® 6mm	Roxolid®
035.2808S			Ø6.5 WT, SLA® 8mm	
035.2810S			Ø6.5 WT, SLA® 10mm	
035.2812S			Ø6.5 WT, SLA® 12mm	

13.3 TLX Standard SLActive Implants

Art. No.	Image	Article	Dimensions	Material
035.1008S		Straumann® TLX S Implant	TLX S Ø3.75 NT, SLActive® 8mm	Roxolid®
035.1010S			TLX S Ø3.75 NT, SLActive® 10mm	
035.1012S			TLX S Ø3.75 NT, SLActive® 12mm	
035.1014S			TLX S Ø3.75 NT, SLActive® 14mm	
035.1016S			TLX S Ø3.75 NT, SLActive® 16mm	
035.1018S			TLX S Ø3.75 NT, SLActive® 18mm	
035.1106S		Straumann® TLX S Implant	TLX S Ø3.75 RT, SLActive® 6mm	Roxolid®
035.1108S			TLX S Ø3.75 RT, SLActive® 8mm	
035.1110S			TLX S Ø3.75 RT, SLActive® 10mm	
035.1112S			TLX S Ø3.75 RT, SLActive® 12mm	
035.1114S			TLX S Ø3.75 RT, SLActive® 14mm	
035.1116S			TLX S Ø3.75 RT, SLActive® 16mm	
035.1118S			TLX S Ø3.75 RT, SLActive® 18mm	
035.1406S		Straumann® TLX S Implant	TLX S Ø4.5 NT, SLActive® 6mm	Roxolid®
035.1408S			TLX S Ø4.5 NT, SLActive® 8mm	
035.1410S			TLX S Ø4.5 NT, SLActive® 10mm	
035.1412S			TLX S Ø4.5 NT, SLActive® 12mm	
035.1414S			TLX S Ø4.5 NT, SLActive® 14mm	
035.1416S			TLX S Ø4.5 NT, SLActive® 16mm	
035.1418S			TLX S Ø4.5 NT, SLActive® 18mm	
035.1506S		Straumann® TLX S Implant	TLX S Ø4.5 RT, SLActive® 6mm	Roxolid®
035.1508S			TLX S Ø4.5 RT, SLActive® 8mm	
035.1510S			TLX S Ø4.5 RT, SLActive® 10mm	
035.1512S			TLX S Ø4.5 RT, SLActive® 12mm	
035.1514S			TLX S Ø4.5 RT, SLActive® 14mm	
035.1516S			TLX S Ø4.5 RT, SLActive® 16mm	
035.1518S			TLX S Ø4.5 RT, SLActive® 18mm	
035.1706S		Straumann® TLX S Implant	TLX S Ø5.5 WT, SLActive® 6mm	Roxolid®
035.1708S			TLX S Ø5.5 WT, SLActive® 8mm	
035.1710S			TLX S Ø5.5 WT, SLActive® 10mm	
035.1712S			TLX S Ø5.5 WT, SLActive® 12mm	
035.1806S		Straumann® TLX S Implant	TLX S Ø6.5 WT, SLActive® 6mm	Roxolid®
035.1808S			TLX S Ø6.5 WT, SLActive® 8mm	
035.1810S			TLX S Ø6.5 WT, SLActive® 10mm	
035.1812S			TLX S Ø6.5 WT, SLActive® 12mm	

13.4 TLX Standard S Implants

Art. No.	Image	Article	Dimensions	Material
035.0006S		Straumann® TLX S Implant	Ø3.75 NT, SLA® 6mm	Roxolid®
035.0008S			Ø3.75 NT, SLA® 8mm	
035.0010S			Ø3.75 NT, SLA® 10mm	
035.0012S			Ø3.75 NT, SLA® 12mm	
035.0014S			Ø3.75 NT, SLA® 14mm	
035.0016S			Ø3.75 NT, SLA® 16mm	
035.0018S			Ø3.75 NT, SLA® 18mm	
035.0106S		Straumann® TLX S Implant	Ø3.75 RT, SLA® 6mm	Roxolid®
035.0108S			Ø3.75 RT, SLA® 8mm	
035.0110S			Ø3.75 RT, SLA® 10mm	
035.0112S			Ø3.75 RT, SLA® 12mm	
035.0114S			Ø3.75 RT, SLA® 14mm	
035.0116S			Ø3.75 RT, SLA® 16mm	
035.0118S			Ø3.75 RT, SLA® 18mm	
035.0406S		Straumann® TLX S Implant	Ø4.5 NT, SLA® 6mm	Roxolid®
035.0408S			Ø4.5 NT, SLA® 8mm	
035.0410S			Ø4.5 NT, SLA® 10mm	
035.0412S			Ø4.5 NT, SLA® 12mm	
035.0414S			Ø4.5 NT, SLA® 14mm	
035.0416S			Ø4.5 NT, SLA® 16mm	
035.0418S			Ø4.5 NT, SLA® 18mm	
035.0506S		Straumann® TLX S Implant	Ø4.5 RT, SLA® 6mm	Roxolid®
035.0508S			Ø4.5 RT, SLA® 8mm	
035.0510S			Ø4.5 RT, SLA® 10mm	
035.0512S			Ø4.5 RT, SLA® 12mm	
035.0514S			Ø4.5 RT, SLA® 14mm	
035.0516S			Ø4.5 RT, SLA® 16mm	
035.0518S			Ø4.5 RT, SLA® 18mm	
035.0706S		Straumann® TLX S Implant	Ø5.5 WT, SLA® 6mm	Roxolid®
035.0708S			Ø5.5 WT, SLA® 8mm	
035.0710S			Ø5.5 WT, SLA® 10mm	
035.0712S			Ø5.5 WT, SLA® 12mm	
035.0806S		Straumann® TLX S Implant	Ø6.5 WT, SLA® 6mm	Roxolid®
035.0808S			Ø6.5 WT, SLA® 8mm	
035.0810S			Ø6.5 WT, SLA® 10mm	
035.0812S			Ø6.5 WT, SLA® 12mm	

13.5 Closure Caps

Art. No.	Image	Article	Dimensions	Material
036.3200S		NT/RT/WT Closure Cap	Ø2.7 mm, H 0 mm	Titanium
036.3200SV4				
036.0201S		NT Closure Cap	Ø4 mm, H 1.5 mm	
036.0201SV4				
036.1201S		RT Closure Cap	Ø5.5 mm, H 1.5 mm	
036.1201SV4				

13.6 Healing Caps

Art. No.	Image	Article	Dimensions	Material
036.1202S		RT Healing Cap	Ø5.5 mm, H 2 mm	Titanium
036.2202S		WT Healing Cap	Ø7.2 mm, H 2 mm	
036.0203S		NT Healing Cap	Ø4 mm, H 3 mm	
036.1203S		RT Healing Cap	Ø5.5 mm, H 3 mm	
036.2203S		WT Healing Cap	Ø7.2 mm, H 3 mm	
036.0204S		NT Healing Cap	Ø4 mm, H 4.5 mm	
036.1204S		RT Healing Cap	Ø5.5 mm, H 4.5 mm	
036.2204S		WT Healing Cap	Ø7.2 mm, H 4.5 mm	

13.7 Impression

Art. No.	Image	Article	Dimensions	Material
036.0000		NT Impression Post Open Tray	short, incl. guide screw, H 15 mm	TAN (Titan alloy)
036.1000		RT Impression Post Open Tray		
036.2000		WT Impression Post Open Tray		
036.0001		NT Impression Post Open Tray	long, incl. guide screw, H 21 mm	TAN (Titan alloy)
036.1001		RT Impression Post Open Tray		
036.2001		WT Impression Post Open Tray		
036.0002		NT Impression Post Closed Tray	with 1 guide screw & 2 caps	TAN (Titan alloy) / POM
036.1002		RT Impression Post Closed Tray		
036.2002		WT Impression Post Closed Tray		

13.8 Analogs

Art. No.	Image	Article	Dimensions	Material
036.0100		NT Implant Analog	L 12 mm	TAN (Titan alloy)
036.0102		RT Implant Analog		
036.1100		WT Implant Analog		

13.9 Repositionable Analogs

Art. No.	Image	Article	Dimensions	Material
036.1102		NT Repositionable Implant Analog		Stainless steel
036.2100		RT Repositionable Implant Analog		
036.2102		WT Repositionable Implant Analog		

13.10 Scanbody

Art. No.	Image	Article	Dimensions	Material
036.3220		CARES® NT/RT/WT Mono Scanbody	Ø3.8 mm, H 10 mm	PEEK/TAN

13.11 Basal Screws

Art. No.	Image	Article	Dimensions	Material
036.3110		NT/RT/WT Basal Screw		TAN (Titan alloy)
036.3111		NT/RT/WT Basal Screw AS		

13.12 Temporary Restoration

Art. No.	Image	Article	Dimensions	Material
037.0000		NT Temporary Abutment, for crown	H 10.3 mm	TAN (Titan alloy)
037.1000		RT Temporary Abutment, for crown		
037.2000		WT Temporary Abutment, for crown		
037.0001		NT Temporary Abutment, for bridge		
037.1001		RT Temporary Abutment, for bridge		
037.2001		WT Temporary Abutment, for bridge		

13.13 Variobase® for Crown

Art. No.	Image	Article	Dimensions	Material	
Abutments					
037.0201		NT Variobase® for Crown incl. Screw	$\varnothing 4$ mm, AH 5.5 mm	TAN (Titan alloy)	
037.1201		RT Variobase® for Crown incl. Screw	$\varnothing 5$ mm, AH 6 mm		
037.2201		WT Variobase® for Crown incl. Screw	$\varnothing 7$ mm, AH 6.5 mm		
Burn-out Copings					
037.0211		NT Burn-out Coping for Variobase® for Crown	AH 5.5 mm	POM	
037.0211V4		NT Burn-out Coping for Variobase® for Crown			
037.1211		RT Burn-out Coping for Variobase® for Crown	AH 6 mm		
037.1211V4		RT Burn-out Coping for Variobase® for Crown			
037.2211		WT Burn-out Coping for Variobase® for Crown	AH 6.5 mm		
037.2211V4		WT Burn-out Coping for Variobase® for Crown			

13.14 Variobase® for Crown AS

Art. No.	Image	Article	Dimensions	Material
Abutments				
037.0203		NT Variobase® for Crown AS incl. Screw	Ø 4 mm, AH 6.5 mm	TAN (Titan alloy)
037.1203		RT Variobase® for Crown AS incl. Screw	Ø 5 mm, AH 7 mm	
037.2203		WT Variobase® for Crown AS incl. Screw	Ø 7 mm, AH 7.5 mm	
Burn-out Copings				
037.0212		NT Burn-out Coping 25°, for Variobase® for Crown AS	AH 6.5 mm	POM
037.1212		RT Burn-out Coping 25°, for Variobase® for Crown AS	AH 7 mm	
037.2212		WT Burn-out Coping 25°, for Variobase® for Crown AS	AH 7.5 mm	
Instruments and Accessories				
046.786		AS Screwdriver for ratchet, extra-short,	L 15 mm	TAN (Titan alloy)
046.787		AS Screwdriver for ratchet, short,	L 21 mm	
046.788		AS Screwdriver for ratchet, long,	L 27 mm	
046.789		AS Screwdriver for handpiece, extra-short,	L 20 mm	
046.790		AS Screwdriver for handpiece, short,	L 26 mm	
046.791		AS Screwdriver for handpiece, long,	L 32 mm	
046.792		AS Screwdriver Handling Aid		

13.15 Variobase® for Bridge/Bar Cylindrical

Art. No.	Image	Article	Dimensions	Material
Abutments				
037.0204		NT Variobase® for Bridge/Bar Cylindrical incl. Screw	AH 3.5 mm	TAN (Titan alloy)
037.1204		RT Variobase® for Bridge/Bar Cylindrical incl. Screw	AH 4.0 mm	
037.2204		WT Variobase® for Bridge/Bar Cylindrical incl. Screw	AH 4.5 mm	
Burn-out Copings				
037.0213		NT Burn-out Coping for Variobase® for Bridge/Bar	AH 3.5 mm	POM
037.0213V4				
037.1213		RT Burn-out Coping for Variobase® for Bridge/Bar	AH 4 mm	
037.1213V4				
037.2213		WT Burn-out Coping for Variobase® for Bridge/Bar	AH 4.5 mm	
037.2213V4				

13.16 Cementable Abutments

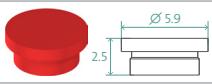
Art. No.	Image	Article	Dimensions	Material
Abutments				
037.0100		NT Cementable Abutment straight 0°, for crowns/bridges	AH 5.7 mm	TAN (Titan alloy)
037.1100		RT Cementable Abutment straight 0°, for crowns/bridges		
037.2100		WT Cementable Abutment straight 0°, for crowns/bridges		
037.0101		NT Cementable Abutment angled 15°		
037.1101		RT Cementable Abutment, angled 15°		
037.2101		WT Cementable Abutment, angled 15°		
Burn-out Copings				
037.0110		NT Burn-out Coping, for cementable abutment straight 0° for crown	AH 6.2 mm	POM
037.1110		RT Burn-out Coping, for cementable abutment straight 0° for crown		
037.2110		WT Burn-out Coping, for cementable abutment straight 0° for crown		
037.0112		NT Burn-out Coping, for cementable abutment angled 15° for crowns & bridges		
037.1112		RT Burn-out Coping, for cementable abutment angled 15° for crowns & bridges		
037.2112		WT Burn-out Coping, for cementable abutment angled 15° for crowns & bridges		
037.0111		NT Burn-out Coping, for cementable abutment straight 0° for bridge		
037.1111		RT Burn-out Coping, for cementable abutment straight 0° for bridge		
037.2111		WT Burn-out Coping, for cementable abutment straight 0° for bridge	AH 6.5 mm	

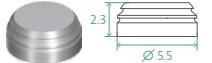
13.17 Pre-Milled Abutment Blanks

Art. No.	Image	Article	Dimensions	Material
037.0610		NT Pre-Milled Abutment Blank for CARES®	$\varnothing 12\text{ mm}$	TAN (Titan alloy)
037.1610		RT Pre-Milled Abutment Blank for CARES®		
037.2610		WT Pre-Milled Abutment Blank for CARES®		
037.2610		WT Pre-Milled Abutment Blank for CARES®		

13.18 Novaloc® Abutments

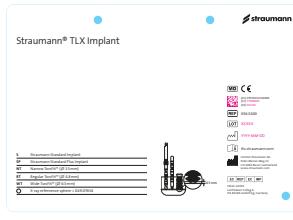
Art. No.	Image	Article	Dimensions	Material	
Novaloc®, straight					
037.0520		NT Novaloc® TiN, straight 0°	H1	TAV	
037.1520		RT Novaloc® TiN, straight 0°			
037.2520		WT Novaloc® TiN, straight 0°			
037.0521		NT Novaloc® TiN, straight 0°	H2		
037.1521		RT Novaloc® TiN, straight 0°			
037.2521		WT Novaloc® TiN, straight 0°			
037.0522		NT Novaloc® TiN, straight 0°	H3		
037.1522		RT Novaloc® TiN, straight 0°			
037.2522		WT Novaloc® TiN, straight 0°			
037.0523		NT Novaloc® TiN, straight 0°	H4		
037.1523		RT Novaloc® TiN, straight 0°			
037.2523		WT Novaloc® TiN, straight 0°			
037.0524		NT Novaloc® TiN, straight 0°	H5		
037.1524		RT Novaloc® TiN, straight 0°			
037.2524		WT Novaloc® TiN, straight 0°			
037.0525		NT Novaloc® TiN, straight 0°	H6		
037.1525		RT Novaloc® TiN, straight 0°			
037.2525		WT Novaloc® TiN, straight 0°			

Art. No.	Image	Article	Dimensions	Material
Auxiliaries*				
2010.721-NOV		Novaloc® Model Analog, blue, 4 pcs		Aluminum
2010.720-NOV		Novaloc® Model Analog - Angled 15°, red, 4 pcs		
2010.722-NOV		Novaloc® Impression Coping, red, 4 pcs		PEEK
Art. No.	Image	Article	Dimensions	Material
Novaloc®, angled				
037.0530		NT Novaloc® TiN, angled 15°	H2	TAV
037.1530		RT Novaloc® TiN, angled 15°	H2	
037.2530		WT Novaloc® TiN, angled 15°	H2	
037.0531		NT Novaloc® TiN, angled 15°	H3	
037.1531		RT Novaloc® TiN, angled 15°	H3	
037.2531		WT Novaloc® TiN, angled 15°	H3	
037.0532		NT Novaloc® TiN, angled 15°	H4	
037.1532		RT Novaloc® TiN, angled 15°	H4	
037.2532		WT Novaloc® TiN, angled 15°	H4	
037.0533		NT Novaloc® TiN, angled 15°	H5	
037.1533		RT Novaloc® TiN, angled 15°	H5	
037.2533		WT Novaloc® TiN, angled 15°	H5	
037.0534		NT Novaloc® TiN, angled 15°	H6	
037.1534		RT Novaloc® TiN, angled 15°	H6	
037.2534		WT Novaloc® TiN, angled 15°	H6	

Art. No.	Image	Article	Dimensions	Material
Retention Inserts*				
2010.601-NOV		Novaloc® Processing Package		
		Matrix Housing (including Processing Insert), 2 pcs		Titanium / POM
		Retention Insert White - Light, 2 pcs	Light, approx. 750g	PEEK
		Retention Insert Yellow - Medium, 2 pcs	Medium, approx. 1200g	
		Retention Insert Green - Strong, 2 pcs	Strong, approx. 1650g	
2010.611-NOV		Novaloc® Processing Package PEEK		
		Matrix Housing PEEK (including Processing Insert), 2 pcs		PEEK / POM
		Retention Insert White - Light, 2 pcs	Light, approx. 750g	
		Retention Insert Yellow - Medium, 2 pcs	Medium, approx. 1200g	
		Retention Insert Green - Strong, 2 pcs	Strong, approx. 1650g	
		Processing Collar, 2 pcs		Silicone
		Novaloc® Retention Insert Red - Extra-Light, 4 pcs	Extra-light, approx. 300g	PEEK
		Novaloc® Retention Insert White - Light, 4 pcs	Light, approx. 750g	
		Novaloc® Retention Insert Yellow - Medium, 4 pcs	Medium, approx. 1200g	
		Novaloc® Retention Insert Green - Strong, 4 pcs	Strong, approx. 1650g	
		Novaloc® Retention Insert Blue - Extra-Strong, 4 pcs	Extra-strong, approx. 2100g	
		Novaloc® Retention Insert Black - Ultra-Strong, 4 pcs	Ultra-strong, approx. 2550g	
Auxiliaries*				
2010.701-NOV		Novaloc® Matrix Housing (including Processing Insert), 4 pcs		Titanium / POM
2010.702-NOV		Novaloc® Matrix Housing PEEK (including Processing Insert), 4 pcs		PEEK / POM
2010.703-NOV		Novaloc® Matrix Housing - Extended (including Processing Insert), 4 pcs		Titanium / POM

13.19 Instruments

13.19.1 A Module – Order list

Art. No.	Image	Product
041.761		Straumann® Modular Cassette, A Module
041.766		A Modul Ratchet Tray
046.119		Ratchet
066.1100		BLX Torque Control Device
046.064		Holding Key
041.764		Grommet Tray, 3 small + 3 large
046.400		SCS Screwdriver for Ratchet, extra-short
046.401		SCS Screwdriver for Ratchet, short
046.402		SCS Screwdriver for Ratchet, long
046.410		SCS Screwdriver for Handpiece, extra short
046.411		SCS Screwdriver for Handpiece, short
046.412		SCS Screwdriver for Handpiece, long
041.771		Implant Depth Gauge Tray
066.2000		Implant Depth Gauge
041.762		Grommet Tray, 6 small
036.3400		TLX X ray Reference Foil

For details see *Straumann® Modular Cassette Selection Guide (702824/en)*.

13.19.2 B Module – Order list

Art. No.	Image	Product	Art. No.	Image	Product
041.776		Straumann® Modular Cassette, B Module, Base + Lid	066.1701		X VeloDrill™, long, Ø2.2 mm
041.777		B Module, Fully Tapered Tray	066.1702		X VeloDrill™, long, Ø2.8 mm
040.563		Drill Extender	066.1703		X VeloDrill™, long, Ø3.2 mm
044.003		Round Bur, Ø2.3 mm	066.1704		X VeloDrill™, long, Ø3.5 mm
044.004		Round Bur, Ø3.1 mm	066.1705		X VeloDrill™, long, Ø3.7 mm
026.0056		Needle Drill, long, Ø1.6 mm	066.1706		X VeloDrill™, long, Ø4.2 mm, BLX
066.1301		X VeloDrill™, short, Ø2.2 mm	066.1707		X VeloDrill™, long, Ø4.7 mm, BLX
066.1302		X VeloDrill™, short, Ø2.8 mm	046.799		Alignment Pin, Ø2.2 mm
066.1303		X VeloDrill™, short, Ø3.2 mm	046.800		Depth Gauge, Ø2.8 mm
066.1304		X VeloDrill™, short, Ø3.5 mm	046.801		Depth Gauge, Ø3.2 mm
066.1305		X VeloDrill™, short, Ø3.7 mm	046.802		Depth Gauge, Ø3.5 mm
066.1306		X VeloDrill™, short, Ø4.2 mm	046.803		Depth Gauge, Ø3.7 mm
066.1307		X VeloDrill™, short, Ø4.7 mm	046.804		Depth Gauge, Ø4.2 mm
066.1308		X VeloDrill™, short, Ø5.2 mm	046.805		Depth Gauge, Ø4.7 mm
066.1309		X VeloDrill™, short, Ø6.2 mm	046.806		Depth Gauge, Ø5.2 mm
			046.807		Depth Gauge, Ø6.5 mm
			066.4201		Implant Driver for Ratchet, short, BLX
			066.4101		Implant Driver for Handpiece, short, BLX

Profile Drills

Art. No.	Image	Product	Dimensions	Material
036.3300		TLX, RT, Prof. Drill, S, for imp Ø3.75/Ø4.8	SST	
036.3302		TLX, WT, Prof. Drill, S, for imp Ø5.5/Ø6.5		
036.3301		TLX, RT, Prof. Drill, L, for imp Ø3.75/Ø4.8		
036.3303		TLX, WT, Prof. Drill, L, for imp Ø5.5/Ø6.5		

Bone Profilers

Art. No.	Image	Product	Dimensions	Material
049.4065		TLX Guiding Cylinder for Bone Profiler, Ø3.6 mm	L 9.8 mm	TAN
044.304		Bone Profiler for RN/RT, needed Guiding Cylinder: 049.4065	L 28 mm	Stainless steel
044.305		Bone Profiler for WN/WT, needed Guiding Cylinder: 049.4065	L 25 mm	

13.19.3 A-Module setup

A Module
041.761

Ratchet Tray
041.766

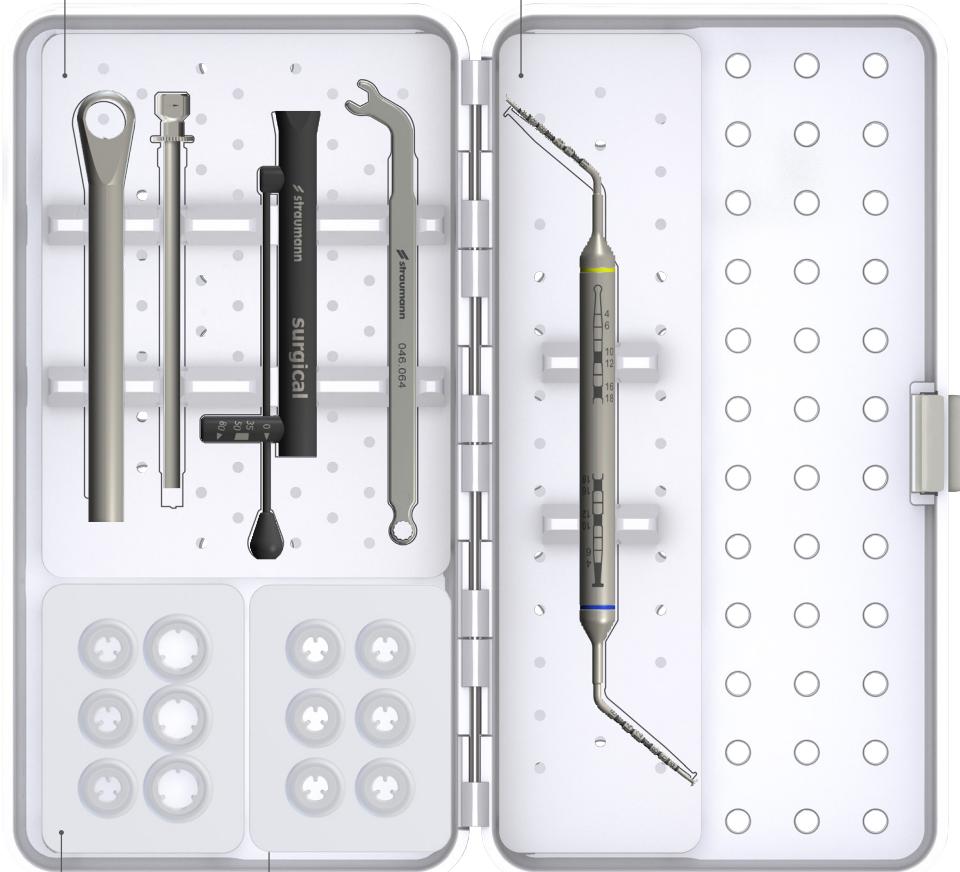
Ratchet
046.119

BLX Torque
Control
066.1100

Holding Key
046.064

Implant Depth Gauge Tray
041.771

Implant Depth Gauge
066.2000



RT/WT Profile Drill Set
Grommet Tray, 6 small
041.762

RT Profile Drill
036.3300
036.3301

WT Profile Drill
036.3302
036.3303

SCS Screwdriver
for Ratchet

046.400
046.401
046.402

SCS Screwdriver
for Handpiece

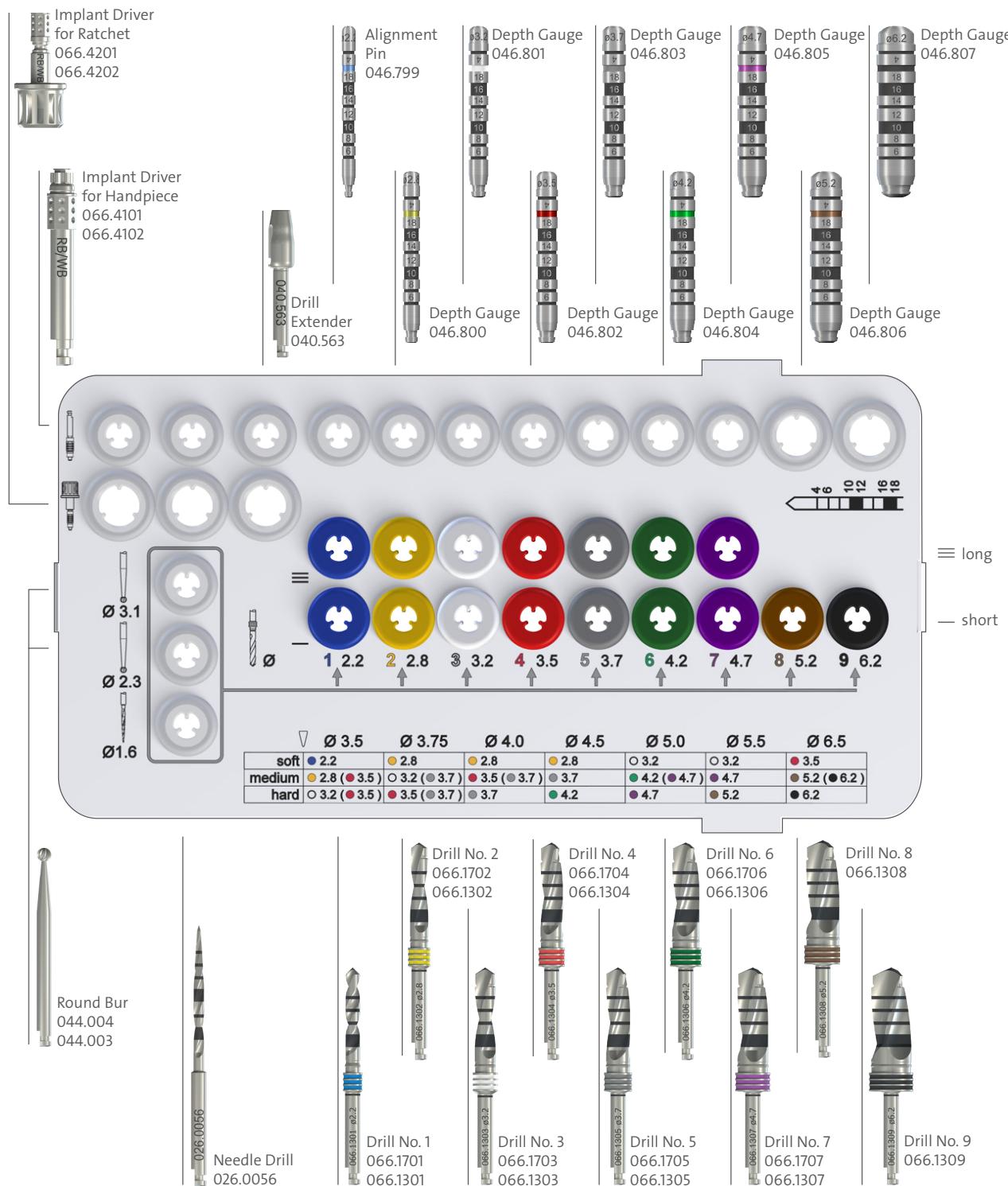
046.410
046.411
046.412

SCS Screwdriver Set

Grommet Tray 3 small + 3 large
041.764

13.19.4 B-Module setup

Fully Tapered Tray 041.777



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