

# BASIC INFORMATION

Straumann® BLC Implant System





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# ABOUT THIS GUIDE

This surgical and prosthetic procedure describes the steps required for implantation and restoration of the Straumann® BLC Implant System. The Straumann® BLC 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.











Not all products shown are available in all markets.

# 1. THE STRAUMANN® BLC IMPLANT SYSTEM

The Straumann® BLC Implant System offers Bone Level Implants (BLC) that are designed for high primary stability and immediate treatment procedures.

The Straumann® BLC Implants are made from the material Roxolid® with the SLActive® surface coating. The implants are available in endosteal out diameters of Ø 3.3 mm (with length options from 8-18 mm), Ø 3.75 mm and Ø 4.5 mm (with length options from 6-18 mm) and Ø 5.5 mm and Ø 6.5 mm (with length options from 6-16 mm). A unified color code simplifies identification of instruments and implants for the available endosteal diameters.

The Straumann® BLC prosthetic components are identified with RB (Regular Base), corresponding to the implant diameters of Ø 3.3 mm and Ø 3.75 mm, and WB (Wide Base), corresponding to the implant diameters of Ø 4.5 mm, Ø 5.5 mm and Ø 6.5 mm.

		Straumann® BLC Implant				
		Ø 3.3 mm	Ø 3.75 mm	Ø 4.5 mm	Ø 5.5 mm	Ø 6.5 mm
Color code		 (white)	 (red)	 (green)	 (brown)	 (black)
Prosthetic base		RB (Regular Base)		WB (Wide Base)		
Connection		TorcFit™				
Image						
		SLActive®				
Available lengths	6 mm	–	035.9206S	035.9406S	035.9706S	035.9806S
	8 mm	035.9008S	035.9208S	035.9408S	035.9708S	035.9808S
	10 mm	035.9010S	035.9210S	035.9410S	035.9710S	035.9810S
	12 mm	035.9012S	035.9212S	035.9412S	035.9712S	035.9812S
	14 mm	035.9014S	035.9214S	035.9414S	035.9714S	035.9814S
	16 mm	035.9016S	035.9216S	035.9416S	035.9716S	035.9816S
	18 mm	035.9018S	035.9218S	035.9418S	–	

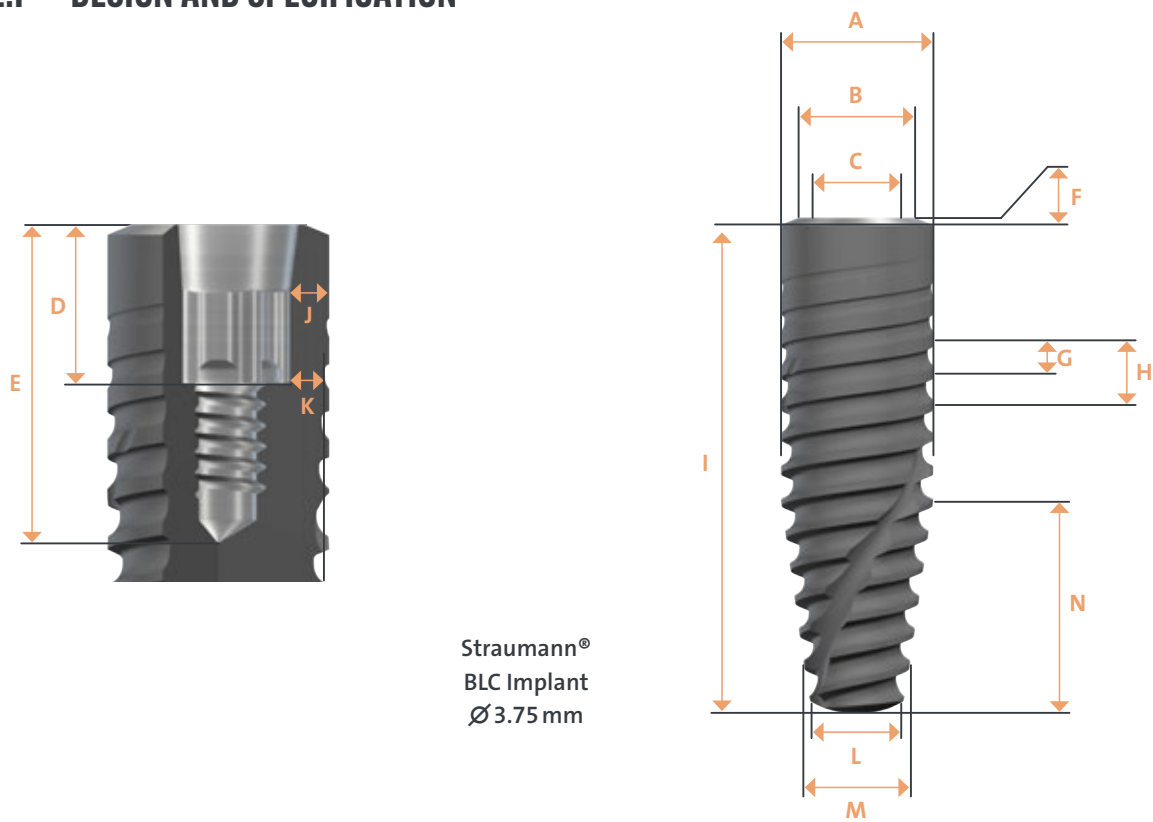
To obtain more information about the indications and contraindications related to each implant, please refer to the corresponding instructions for use. Instructions for use can be found at [www.ifu.straumann.com](http://www.ifu.straumann.com).

## Note:

Particular care should be taken when placing small-diameter Roxolid® implants (Ø 3.3 mm) in the molar region or other high-load situations due to the risk of implant overload.

# 2. IMPLANT

## 2.1 DESIGN AND SPECIFICATION



Straumann®  
BLC Implant  
Ø 3.75 mm

Straumann® BLC Implant					
	Ø 3.3 mm	Ø 3.75 mm	Ø 4.5 mm	Ø 5.5 mm	Ø 6.5 mm
[A] Maximum outer diameter	Ø 3.3 mm	Ø 3.75 mm	Ø 4.5 mm	Ø 5.5 mm	Ø 6.5 mm
[B] Platform diameter	Ø 2.9 mm				
[C] Connection diameter	Ø 2.7 mm				
[D] Connection depth	2.7 mm				
[E] Connection depth including screw hole	5.4 mm				
[F] 22.5° bevel height	0.1 mm	0.18 mm	0.33 mm		
[G] Thread spacing/flank lead/depth	0.8 mm/ 20°/0.35 mm		0.9 mm/ 20°/0.45 mm	1 mm/ 20°/0.5 mm	1.15 mm/ 20°/0.75 mm
[H] Thread pitch*	1.6 mm		1.8 mm	2 mm	2.3 mm
[I] Lengths	8-18 mm	6-18 mm		6-16 mm	
[J] Wall thickness top	0.41 mm	0.57 mm	0.85 mm	1.31 mm	1.64 mm
[K] Wall thickness mid	0.63 mm	0.77 mm	0.99 mm	1.43 mm	1.69 mm
Number of chip flutes	2	2	4	4	4
Implant lengths: 6 mm to 10 mm					
[L] Apical diameter core	Ø 1.52 mm	Ø 1.81 mm	Ø 2.36 mm	Ø 3.18 mm	Ø 3.67 mm
[M] Apical diameter threads	Ø 2.22 mm	Ø 2.63 mm	Ø 3.5 mm	Ø 4.63 mm	Ø 5.71 mm
[N] Tapered part/taper	2.6 mm/14°		2.7 mm/14°	2.6 mm/14°	
Implant lengths: 12 mm to 18 mm					
[L] Apical diameter core	Ø 1.35 mm	Ø 1.61 mm	Ø 2.1 mm	Ø 2.21 mm	Ø 2.76 mm
[M] Apical diameter threads	Ø 2.05 mm	Ø 2.37 mm	Ø 3.1 mm	Ø 4.14 mm	Ø 4.87 mm
[N] Tapered part/taper	5 mm/8°	5.2 mm/8°	5.5 mm/8°		6.5 mm/8°

\* Implant advances by this amount with every rotation.

# 3. CONNECTION

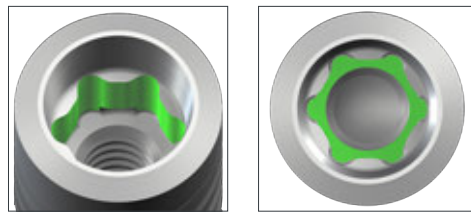
## 3.1 TORCFIT™ CONNECTION

The Straumann® BLC 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 BLC Implants have the same inner geometry regardless of the diameter of the implant. This allows the use of one set of prosthetic components (“RB/WB abutments”) and simplifies the prosthetic steps. In addition, a wide emergence profile can be created on top of WB implants (“WB abutments”).

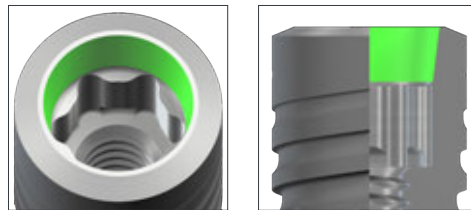
### Improved Torx with six positions:

- Allows transmission of high torques
- Simple yet flexible implant and abutment alignment



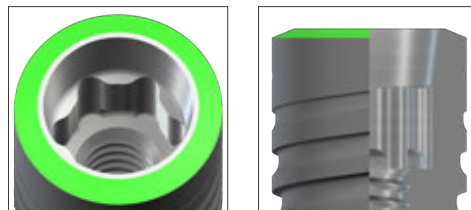
### 7° conical prosthetic connection:

- High mechanical stability and stress distribution
- Exact implant-abutment fit
- Narrow emergence profile creates space for soft tissues
- Clear feedback of final position by friction fit



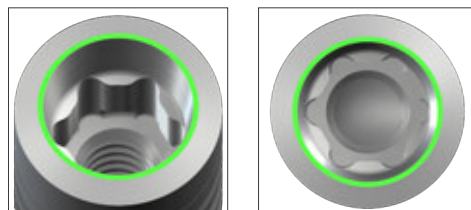
### 22.5° shoulder prosthetic connection:

- High mechanical stability
- Exact implant-abutment fit
- Extra wide emergence profiles (implants with diameter >5.0 mm)
- Divergence compensation for bridges



### Flat top portion:

- High accuracy for impression components
- Flat sealing for healing and temporary components to protect inner conus

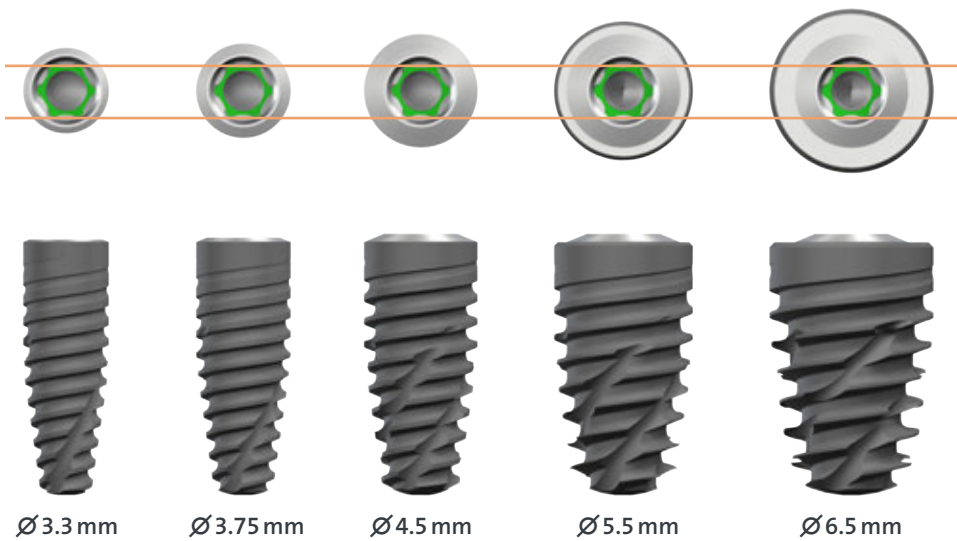


**Same inner geometry regardless of the diameter of the implant**

- A single prosthetic range to manage all implant diameters (“RB/WB”)
- Simplified prosthetic steps
- Same Implant Driver for all implants

**Precise machined shoulder for optional wide emergence profile (diameter >5.0 mm)**

- Free choice of implant regardless of prosthetic volume to restore

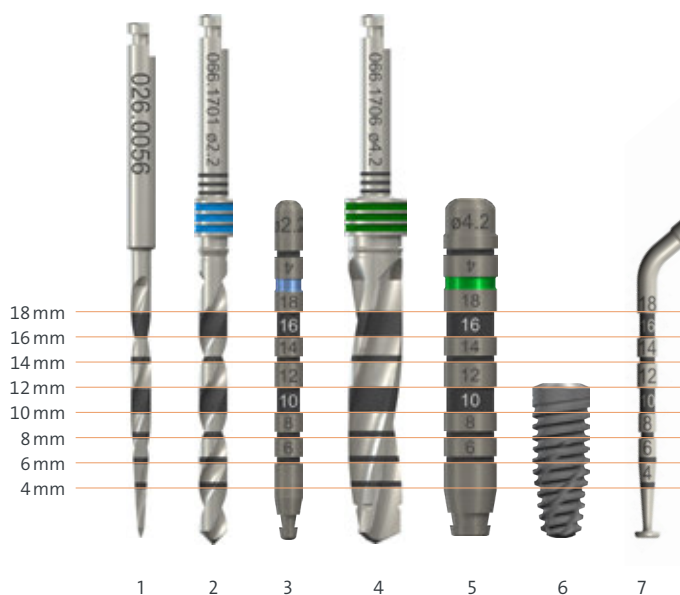




# 4. INSTRUMENTS

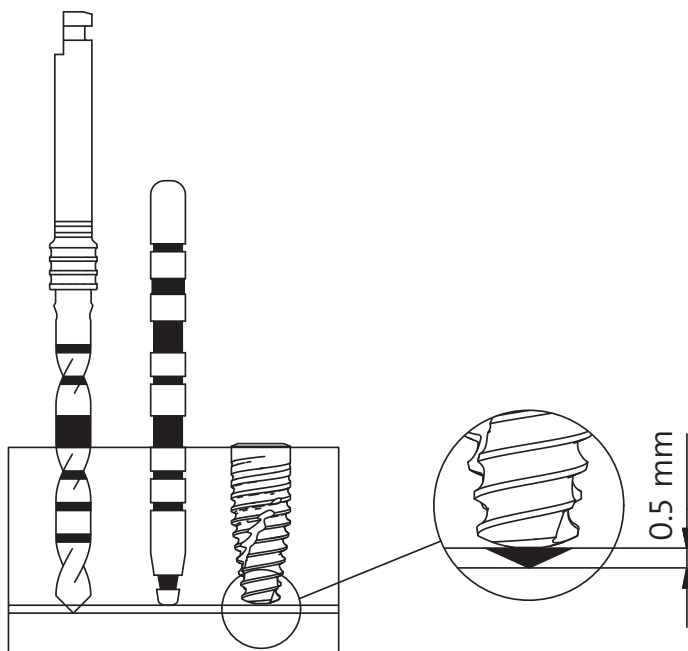
The Straumann® BLC Implant System is supplied with a specific set of instruments.

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  $\varnothing$ 4.2 mm, long: 066.1706
5. Depth Gauge 046.804
6. BLC Implant  $\varnothing$ 4.5 / 12 mm: 035.9412S
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™

The VeloDrill™ line in the Straumann® Dental Implant System is delivered color-coded, the color corresponding to the specific implant diameter. For precise depth control, VeloDrills™ are compatible with a disposable Drill Stop (refer to *Straumann® Drill Stop – Basic Information (702874/en)*). VeloDrills™ are compatible for freehand and guided surgery.

	Needle Drill	Pilot Drill	Drills							
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	–	–	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	–	–
Material	Stainless steel									

## 4.2 EXTERNAL IRRIGATION WHEN USING DRILL EXTENDER

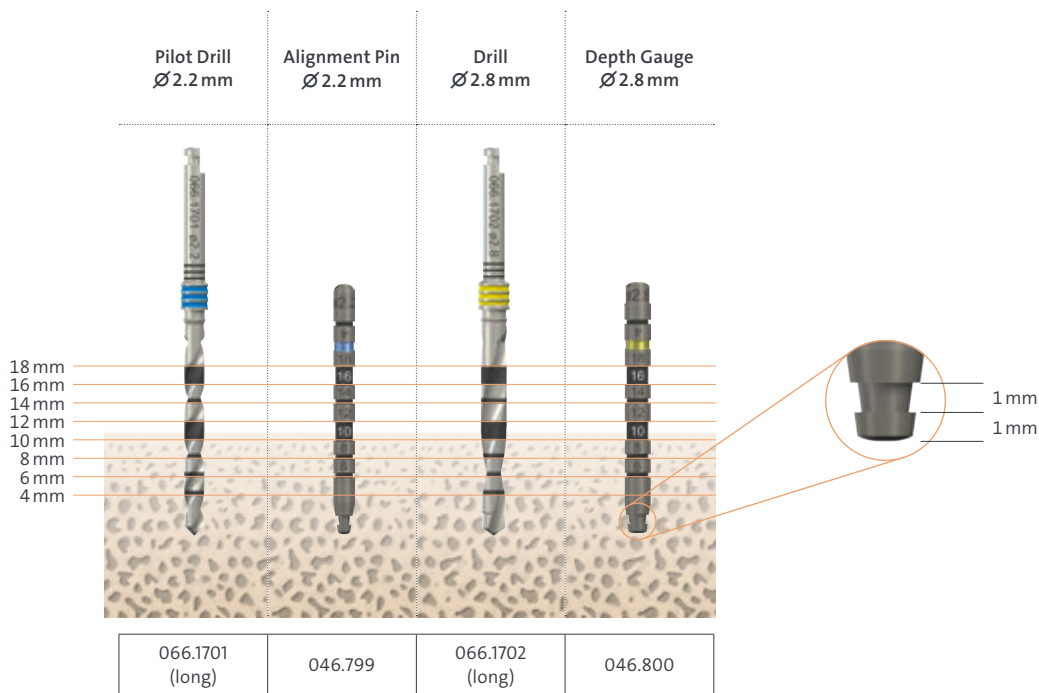


The Stop Ring reduces the effectiveness of the irrigation when a Drill Extender is used. In this case use additional external irrigation (e.g. with a syringe) to ensure proper cooling of the osteotomy during drilling.

### 4.3 ALIGNMENT PINS 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 colors correspond to the drill diameters and are compatible with all Straumann® Dental Implant Systems.

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



### 4.4 IMPLANT DEPTH GAUGE

The Implant Depth Gauge is used for accurate depth measurement and tactile examination of the osteotomy. Blue end: use to examine osteotomy made by Pilot Drill (Ø 2.2 mm)

Yellow end: use to examine osteotomy made with Drill Ø 2.8 mm and wider.




The Implant Depth Gauge is made of titanium alloy (TAN) and is compatible with all Straumann® Dental Implant Systems.



Implant Depth Gauge, 066.2000

## 4.5 IMPLANT DRIVER

Select the appropriate Implant Driver type for pick-up and insertion of the Straumann® BLC Implants.

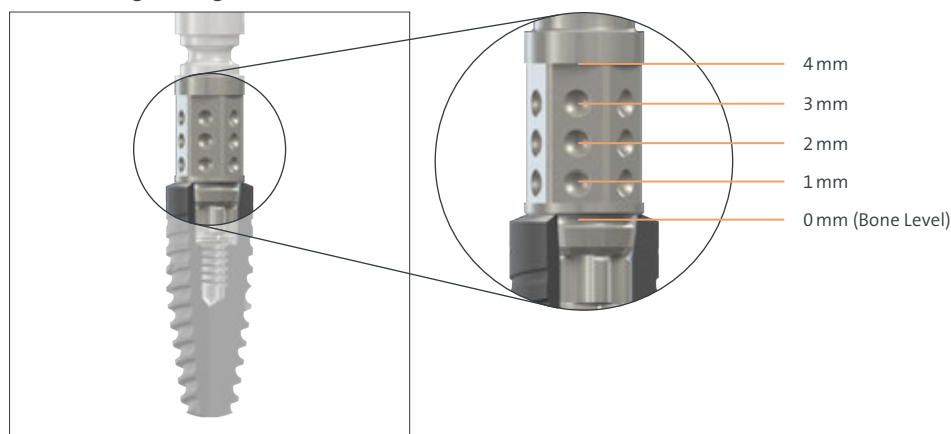
Implant Driver type								
Implant Driver for Handpiece				Implant Driver for Ratchet			Implant Driver for Ratchet, screw-retained	
								
short	medium	long	extra long	short	medium	long	short	long
Length 21 mm	Length 26 mm	Length 31 mm	Length 36 mm	Length 21 mm	Length 26 mm	Length 31 mm	Length 21 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 an Implant Driver. The long and extra-long versions are recommended for anterior only.

Surgical Handle for TorcFit™ Implant Driver

Stainless steel
066.4000

The Implant Drivers for Handpiece (long (066.4102), extra long (066.4108)) are 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.



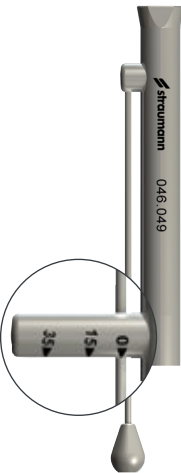



The round markings on the Implant Drivers indicate the distance to the implant shoulder in 1 mm steps.

## 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.

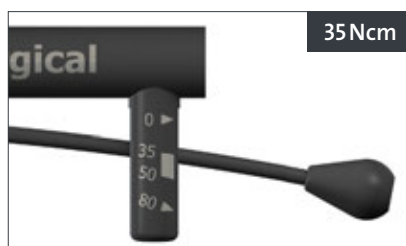
Two different Torque Control Devices are available for defined torque transmission or for torque measurements, with markings of 15Ncm / 35Ncm and 35-50 Ncm / 80 Ncm, respectively. Choose the appropriate device depending on the intended use.

Ratchet and Torque Control Devices				
	Holding Key	Ratchet	Torque Control Device for Ratchet	Torque Control Device for Ratchet, Surgical
				
Intended use	Auxilliary	Torque transmission	Prosthetic	Surgical
Torque markings	NA	NA	0 / 15 / 35 Ncm	0 / 35 / 50 / 80 Ncm
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.

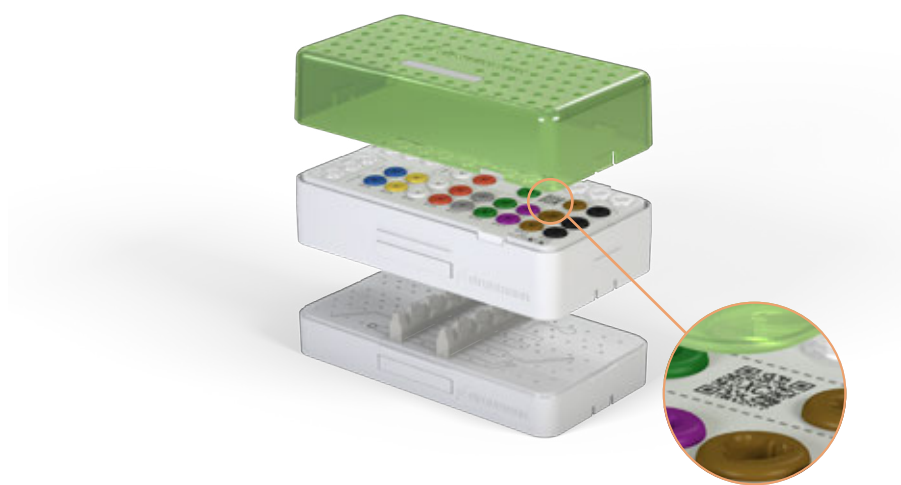
Torque reading on Torque Control Device:



## 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 (702527/en)*. The B and C modules can be stacked as shown in the picture.

The QR code on the trays of the modular cassette leads to an online webpage to support with documents for the implant surgical workflow and the cassette setup and maintenance.



## 4.8 SETUP FOR BLC FREEHAND SURGERY

B Module, Tray TorcFit™ BLC, TLC, BLX, TLX  
041.787

**BLC/TLC Profile Drills**

Profile Drill 034.362  
Profile Drill 034.363  
Profile Drill 034.365  
Profile Drill 034.366  
Profile Drill 034.367

**Alignment pin & depth gauges**

Alignment pin 046.799  
Depth Gauge 046.800  
Depth Gauge 046.801  
Depth Gauge 046.802  
Depth Gauge 046.803  
Depth Gauge 046.804  
Depth Gauge 046.805  
Depth Gauge 046.806  
Depth Gauge 046.807

**Spare parts (optional)**

SCS Screwdriver 046.401  
Drill Extender 040.563  
SCS Screwdriver for Handpiece 046.411

**Implant Driver for ratchet**  
066.4201  
066.4207  
066.4202

**Implant Driver for handpiece**  
066.4101  
066.4107  
066.4102

**Round Bur**  
044.003  
044.004

**Needle Drill**  
026.0056

**Needle Drills and Round Burs**

**VeloDrills™**

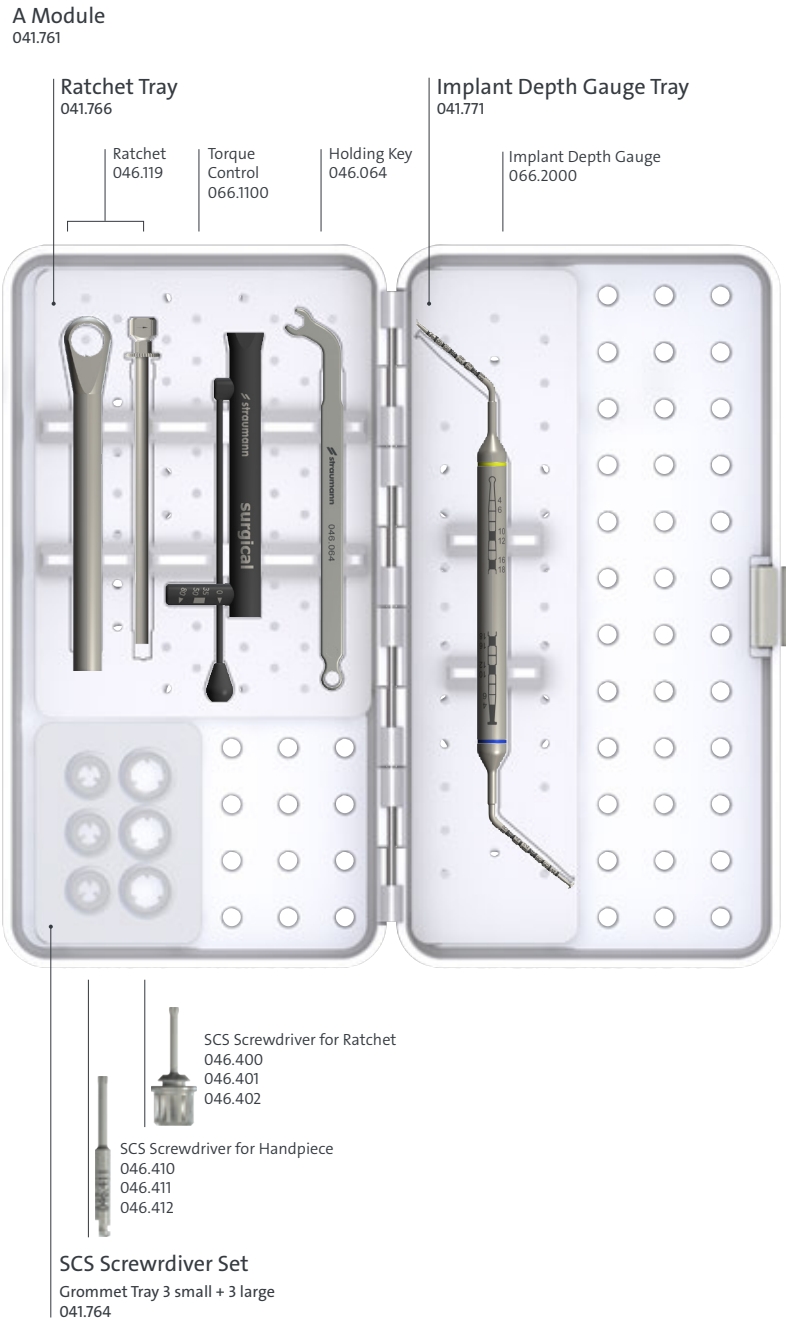
066.1701 066.1501 066.1301  
066.1702 066.1502 066.1302  
066.1703 066.1503 066.1303  
066.1704 066.1504 066.1304  
066.1705 066.1505 066.1305  
066.1706 066.1506 066.1306  
066.1507 066.1307  
066.1508 066.1308  
066.1509 066.1309

**Choose one drill length between short, medium or long depending on the implant length used. See article list on page 81.**

**Illustration for drill depth mark**  
4 6 10 12 16 18

For more information refer to *Straumann® Modular Cassette Selection Guide (702824/en)*.

For additional instruments and tools, please use the A-module. The A Module mainly stores surgical tools that can be shared among different implant lines. Users can set up the A Module according to their needs by changing the removable trays inside the A Module.





## 4.9 SETUP FOR BLC GUIDED SURGERY

B Module, Tray TorcFit™ BLC, TLC, BLX, TLX, Guided  
041.788

**Guided Implant Drivers**

BLC, for Ratchet 066.4404

BLC, for Handpiece 066.4403

**BLC/TLC Profile Drills**

Profile Drill 034.362

Profile Drill 034.363

Profile Drill 034.365

Profile Drill 034.366

Profile Drill 034.367

**Guided Adapter for BLC/TLC profile drills**  
034.354  
034.355  
034.356

**straumann** BLC - TLC - BLX - TLX

QR code

Illustration for drill depth mark

Profile Drills

VeloDrills™

H2 H4 H6

Ø 2.2 Ø 2.8 Ø 3.2 Ø 3.5 Ø 3.7 Ø 4.2 Ø 4.7 Ø 5.2 Ø 6.2

**Mucosa punches and milling cutters**

034.012 034.615  
034.011 034.415  
034.010 034.215

066.1702 066.1704 066.1706  
066.1502 066.1504 066.1506  
066.1302 066.1304 066.1306

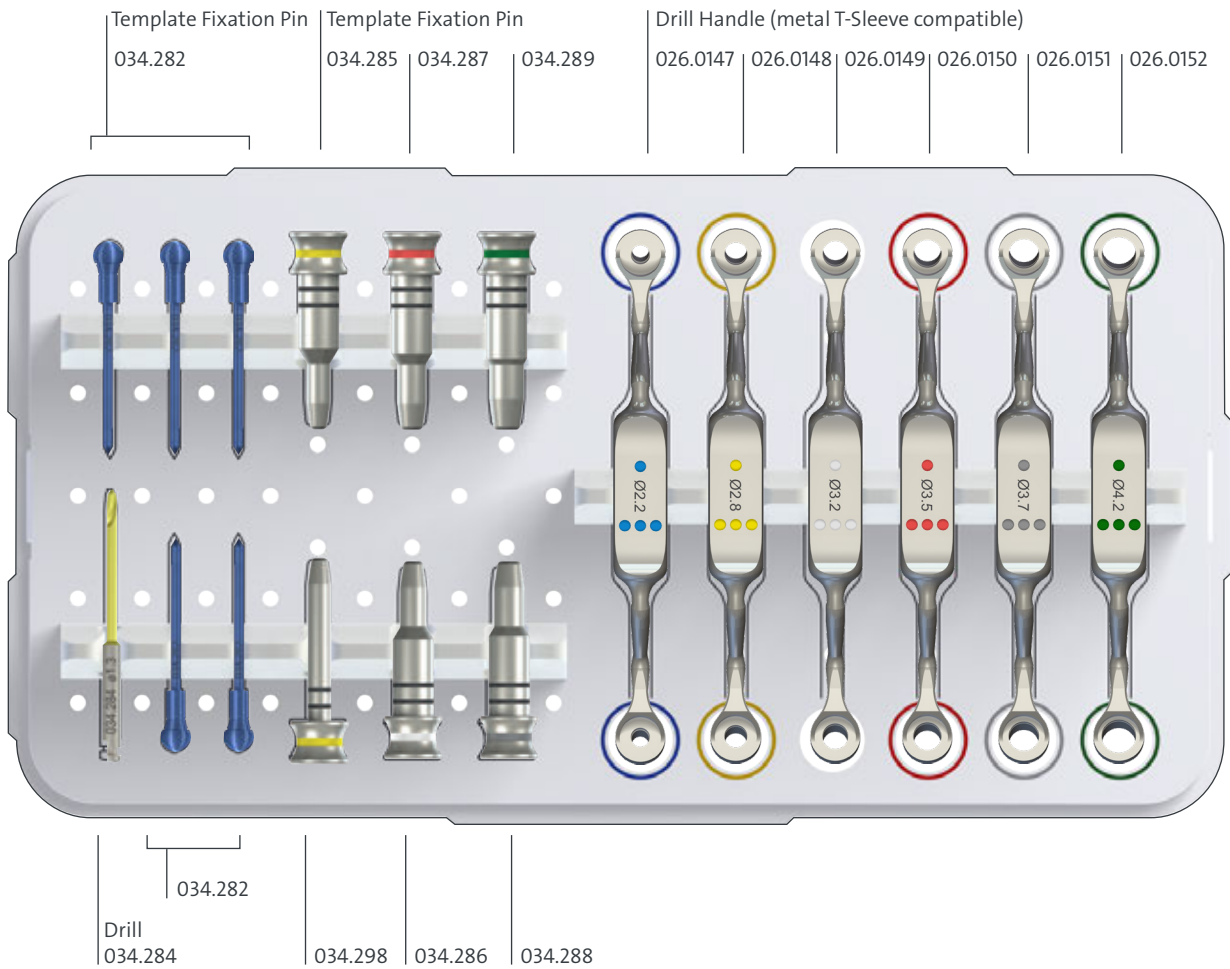
066.1701 066.1703 066.1705  
066.1501 066.1503 066.1505  
066.1301 066.1303 066.1305

066.1508 066.1308

066.1507 066.1309  
066.1307 066.1509

**VeloDrills™**

C Module Guided Surgery  
041.772



# 5. SURGICAL PROCEDURE AND HEALING PHASE

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

- Preoperative planning
- Implant bed preparation
- Implant insertion

## 5.1 PREOPERATIVE PLANNING

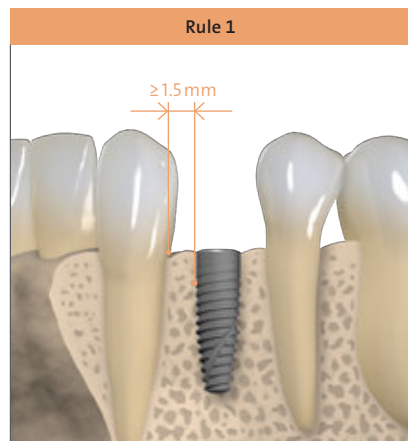
Prosthetic-driven planning is recommended, and close communication between the patient, dentist, surgeon and dental technician is imperative for achieving the desired esthetic result.

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.

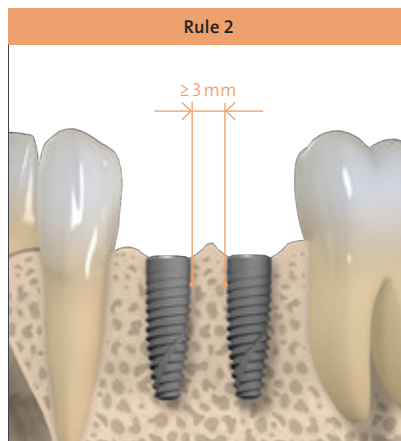
Mesiodistal bone availability is an important factor when choosing the implant type and diameter as well as the inter-implant distances if multiple implants are placed. The point of reference on the implant for measuring mesiodistal distances is always the largest diameter of the implant.

The following three rules should be regarded as minimum guidelines:



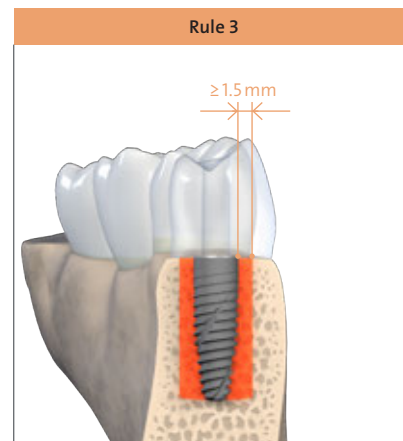
**Rule 1:** Distance to adjacent tooth at bone level

A minimum distance of **1.5 mm from the implant 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 implants** (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 to allow the placement of screw-retained restorations.

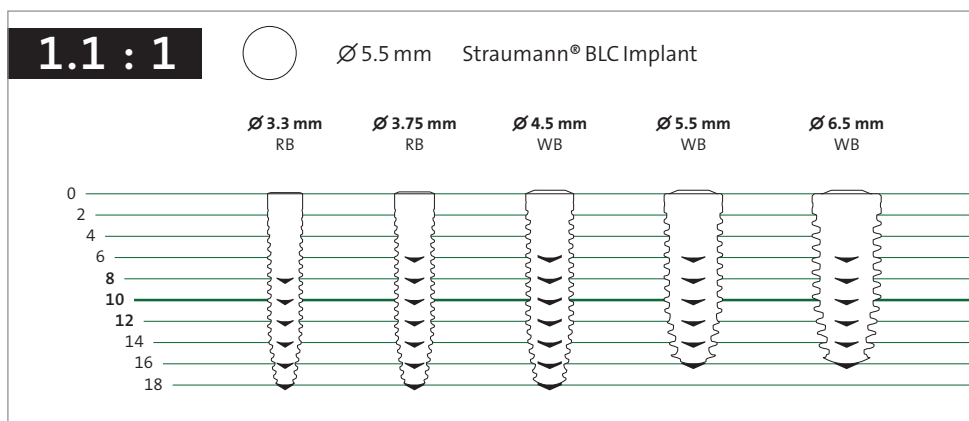
**Caution:** An augmentation procedure is indicated if the orofacial bone wall is less than 1.5 mm or a layer of bone is missing on one or more sides. This technique should be employed only by dentists with adequate experience in the use of augmentation procedures.

### 5.1.1 X-ray Reference Foil

The vertical bone availability determines the maximum allowable length of the implant that can be placed. A minimum distance of 2 mm between the apex of the implant and the alveolar nerve should be kept. For easier determination of the vertical bone availability, we recommend the use of an x-ray reference foil with X-ray Reference Sphere.

The BLC X-ray Reference Foil is used for measurement and comparison. It assists 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). Each magnification factor or scale is determined 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, refer to *Straumann® Dental Implant System, Basic Information (702084/en)*.



**Note:** For Straumann® BLC Implants use only the x-ray reference foil specific to the BLC Implant.

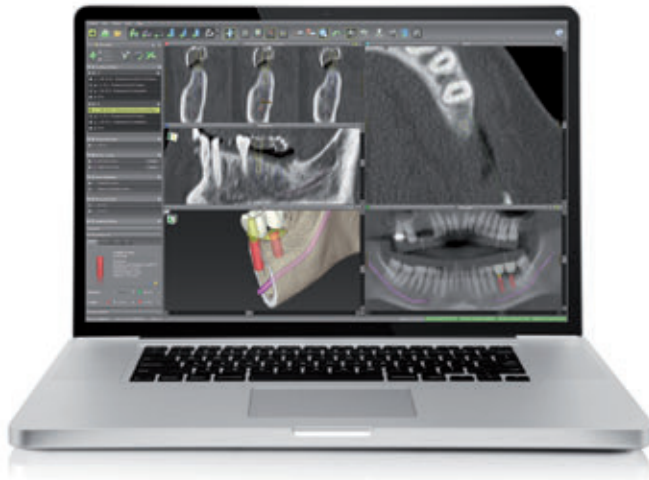
To calculate the effective bone availability, use the following formula:

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

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

### 5.1.2 Planning software

Another possibility is digital planning with e.g. coDiagnostiX®. This 3D diagnostics and implant planning software is designed for the image-guided surgical planning of dental implants, including BLC 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 coDiagnostiX®.



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.

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



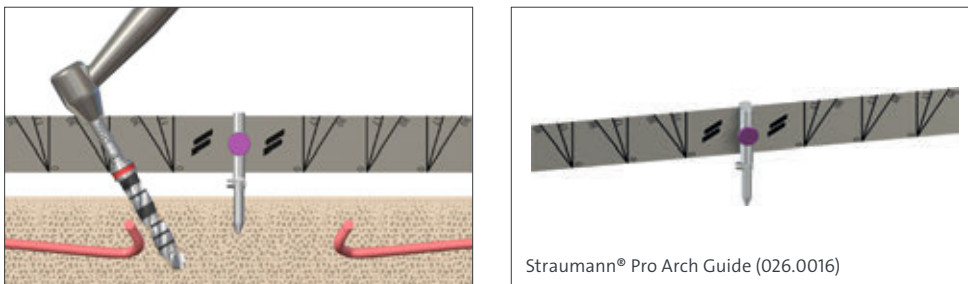
#### CARES® Synergy workflow

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

### 5.1.3 Straumann® Pro Arch Guide


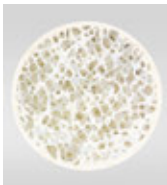
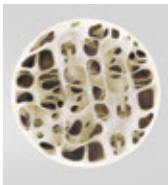
For intraoperative visual and three-dimensional orientation of the implant angulation (mesial/distal) and oral parallelization, use the Straumann® Pro Arch Guide.

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 Pilot Drill 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. Use the TS Hexagonal Screwdriver (046.420) to adjust and disassemble.



For further information on the treatment of edentulous patients and angulated placement of BLC Implants, please refer to the *Straumann® Pro Arch, Basic Information (702166/en)*.

### 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
		

\* 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.

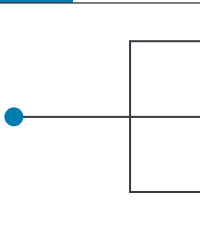
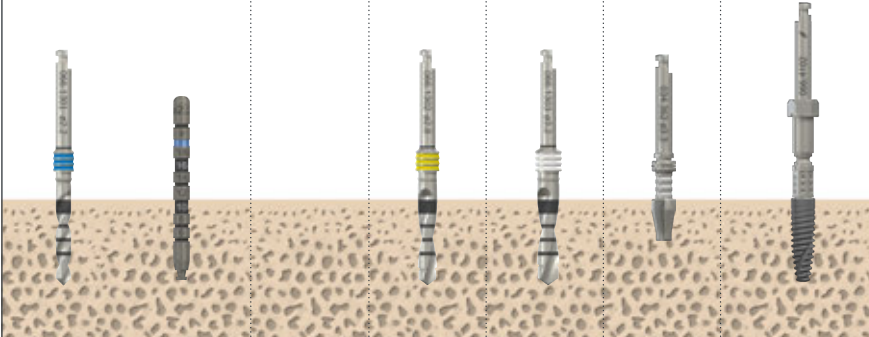
A quick guide to the surgical drill protocol is printed on the cassette and indicates the final drill recommended for each implant diameter and bone density.

	Ø3.3	Ø3.75	Ø4.5	Ø5.5	Ø6.5
Soft	● 2.2	● 2.2	○ 3.2	● 4.2	● 4.7
Medium	● 2.8 + P 3.3	○ 3.2 + P 3.75	● 3.7 + P 4.5	● 4.7 + P 5.5	● 5.2 + P 6.5
Hard	○ 3.2 + P 3.3	● 3.5 + P 3.75	● 4.2 + P 4.5	● 5.2 + P 5.5	● 6.2 + P 6.5

**Note:** Every implant bed has to be initiated with the pilot drill (Ø2.2 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. Rotate the drills in a clockwise direction, use an intermittent drilling technique and provide ample cooling with pre-cooled (5°C, 41°F) sterile saline solution. Do not exceed the recommended drill speed of 800 rpm.

### 5.2.1 Workflow for BLC Ø3.3 mm

Implant bed preparation, illustrated with a BLC Implant Ø3.3 mm / 12 mm RB

Pilot drilling Check implant axis		Decide on bone density	Finalize implant bed according to bone density			Implant placement
Pilot Drill	Alignment Pin Ø2.2 mm		Drill Ø2.8 mm	Drill Ø3.2 mm	Profile Drill Ø3.3 mm	
		Soft	→			BLC Ø3.3 mm SLActive® 12 mm, Roxolid®
		Medium	→ ●	→	→ P	
		Hard	→ ○	→	→ P	
						
800 rpm			800 rpm	800 rpm	300 rpm	15 rpm
066.1301			066.1302	066.1303	034.362	

**Note:** Particular care should be taken when placing small-diameter implants (Ø3.3 mm) in the molar region or other highload situations due to the risk of implant overload.

**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 to the 12 mm marking, the actual implant bed has a depth of 12.5 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 a Ø3.3 mm Profile Drill for Ø3.3 mm implants, independent of the overall bone-quality.

Subcrestal implant placement: Consider the final implant position for drill depth and never undersize in length with the Pilot Drill.



### 5.2.2 Workflow for BLC Ø3.75 mm

Implant bed preparation, illustrated with a BLC Implant Ø3.75 mm / 12 mm RB

Pilot drilling Check implant axis		Decide on bone density	Finalize implant bed according to bone density				Implant placement
Pilot Drill	Alignment Pin Ø2.2 mm		Drill Ø2.8 mm	Drill Ø3.2 mm	Drill Ø3.5 mm	Profile Drill Ø3.75 mm	
		Soft	→				BLC Ø3.75 mm SLActive® 12 mm, Roxolid®
		Medium	→ ●	→ ○	→	→ P	
		Hard	→ ●	→	→ ●	→ P	
800 rpm			800 rpm	800 rpm	800 rpm	300 rpm	15 rpm
066.1301			066.1302	066.1303	066.1304	034.363	

**Warning:** Due to the function and design of the drills, the drill tip is up to 0.5mm longer than the insertion depth of the implant. For example, if you drill to the 12 mm marking, the actual implant bed has a depth of 12.5 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 a Ø3.75 mm Profile Drill for Ø3.75 mm implants, independent of the overall bone-quality.

**Subcrestal implant placement:** Consider the final implant position for drill depth and never undersize in length with the Pilot Drill.

### 5.2.3 Workflow for BLC Ø4.5 mm

Implant bed preparation, illustrated with a BLC Implant Ø4.5 mm / 12 mm WB

Pilot drilling Check implant axis		Decide on bone density	Finalize implant bed according to bone density				Implant placement
Pilot Drill	Alignment Pin Ø2.2 mm		Drill Ø3.2 mm	Drill Ø3.7 mm	Drill Ø4.2 mm	Profile Drill Ø4.5 mm	
		Soft					BLC Ø4.5 mm SLActive® 12 mm, Roxolid®
		Medium					
		Hard					
800 rpm			800 rpm	800 rpm	800 rpm	300 rpm	15 rpm
066.1301			066.1303	066.1305	066.1306	034.365	

**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 to the 12 mm marking, the actual implant bed has a depth of 12.5 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 a Ø4.5 mm Profile Drill for Ø4.5 mm implants, independent of the overall bone-quality.

**Subcrestal implant placement:** For implant with diameter Ø4.5 mm and larger never undersize in length with the drill Ø3.2 mm.

### 5.2.4 Workflow for BLC Ø5.5 mm

Implant bed preparation, illustrated with a BLC Implant Ø5.5 mm / 12 mm WB

Pilot drilling Check implant axis		Decide on bone density	Finalize implant bed according to bone density					Implant placement
Pilot Drill	Alignment Pin Ø2.2 mm		Drill Ø3.2 mm	Drill Ø4.2 mm	Drill Ø4.7 mm	Drill Ø5.2 mm	Profile Drill Ø5.5 mm	
		Soft						BLC Ø5.5 mm SLActive® 12 mm, Roxolid®
		Medium						
		Hard						
800 rpm			800 rpm	800 rpm	800 rpm	800 rpm	300 rpm	15 rpm
066.1301			066.1303	066.1306	066.1307	066.1308	034.366	

**Warning:** Due to the function and design of the drills, the drill tip is up to 0.5mm longer than the insertion depth of the implant. For example, if you drill to the 12 mm marking, the actual implant bed has a depth of 12.5 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 a Ø5.5 mm Profile Drill for Ø5.5 mm implants, independent of the overall bone-quality.

**Subcrestal implant placement:** For implant with diameter Ø4.5 mm and larger never undersize in length with the drill Ø3.2 mm.

### 5.2.5 Workflow for BLC Ø6.5 mm

Implant bed preparation, illustrated with a BLC Implant Ø6.5 mm / 12 mm WB

Pilot drilling Check implant axis		Decide on bone density	Finalize implant bed according to bone density					Profile Drill Ø6.5 mm	Implant placement
Pilot Drill	Alignment Pin Ø2.2 mm		Drill Ø3.2 mm	Drill Ø4.2 mm	Drill Ø4.7 mm	Drill Ø5.2 mm	Drill Ø6.2 mm		
		Soft							<b>BLC Ø6.5 mm SLActive® 12 mm, Roxolid®</b>
		Medium							
		Hard							
800 rpm			800 rpm	800 rpm	800 rpm	800 rpm	800 rpm	300 rpm	15 rpm
066.1301			066.1303	066.1304	066.1306	066.1308	066.1309	034.367	

**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 to the 12 mm marking, the actual implant bed has a depth of 12.5 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 a Ø6.5 mm Profile Drill for Ø6.5 mm implants, independent of the overall bone-quality.

Subcrestal implant placement: For implant with diameter Ø4.5 mm and larger never undersize in length with the drill Ø3.2 mm.

## 5.3 IMPLANT PICK UP

The BLC Implants are provided with a new 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 Implant Driver is attached correctly.

**Caution:** Make sure that the Implant Driver is properly seated and pull slightly on the Implant Driver to verify that it is correctly attached. Replace the Implant Driver with a new one if insufficient attachment occurs.

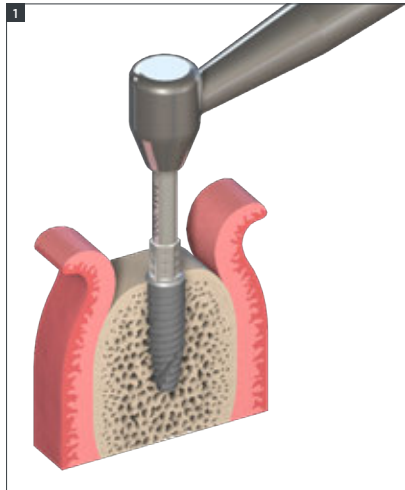


**Step 4 –** A slight clockwise turn is needed to remove the implant from its holder.

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

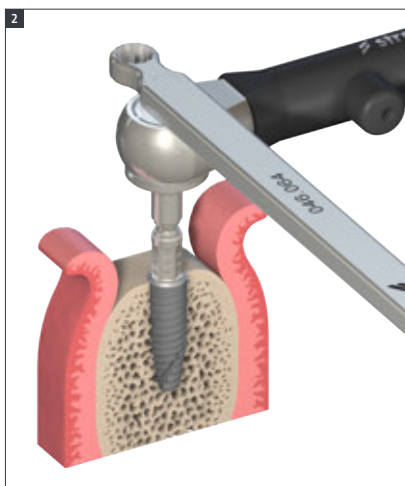
## 5.4 IMPLANT PLACEMENT

A Straumann® BLC 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.

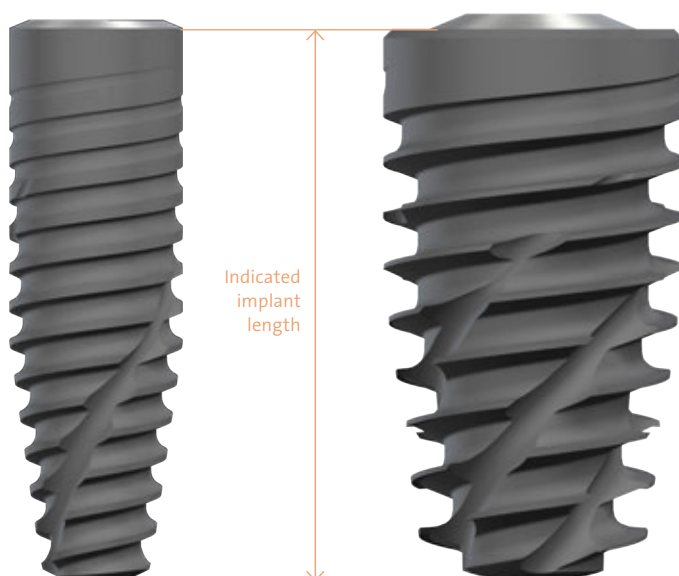


### Step 2 – Final position

Use the Ratchet to move the implant to its final position by turning it clockwise.

If there is strong resistance 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 35 Ncm should be achieved. Excessive insertion torque must be avoided because this can lead to resorption of the bone.



### Coronoapical implant position

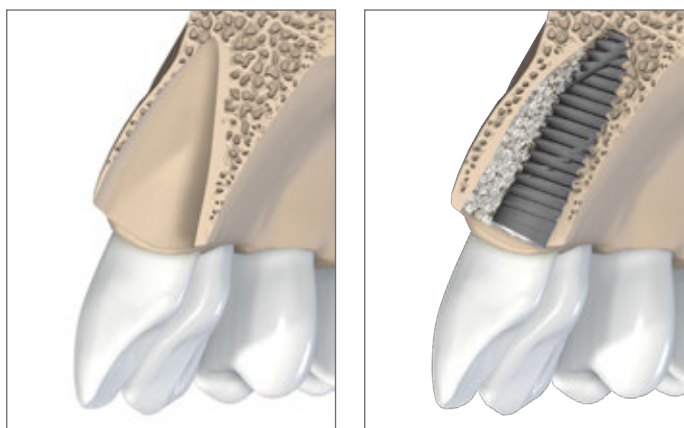
Straumann® BLC implants allow for flexible coronoapical implant positioning, depending on individual anatomy, implant site, the type of restoration planned, and preference. In healed sites, a slight subcrestal placement of 0.5 to 1.0 mm is recommended.

**Note:** Consider final implant position for drill depth, never undersize in length with the pilot drill No. 1 (or No. 3 for BLC Ø 4.5 mm, Ø 5.5 mm and Ø 6.5 mm).

## 5.5 GAP MANAGEMENT

As no implant will match the individual anatomical situation after tooth extraction, 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	Country availability	Reason why
<b>Allograft</b>	Straumann® AlloGraft botiss maxgraft®	North America (Straumann® AlloGraft) Selected countries in Europe (botiss maxgraft®)	Fast graft to bone turnover supporting early and long-term implant stability Full remodeling potential Bone vitality
<b>Xenograft</b>	Straumann® XenoGraft botiss cerabone®	Global	Long-term graft presence supporting volume preservation
<b>Synthetic alternative</b>	Straumann® BoneCeramic™		Prolonged graft to bone turnover Volume preservation

Barrier membranes prohibit cells - particularly epithelial cells - from penetrating their structure, and thereby allow slow-growing bone tissue to re-occupy the grafted space.

Barrier Membranes	Product	Country availability	Reason why
<b>Porcine collagen membrane</b>	botiss jason®	Global	Very thin but strong structure Easy handling Prolonged barrier function Fully resorbable
	Straumann® Membrane Flex	North America, Iberia, Distributor & Emerging Markets (Europe, Middle East and Africa)	Appropriate barrier function for non-complex cases Easy handling Fully resorbable
	botiss collprotect®	Europe	
<b>Bovine collagen membrane</b>	Straumann® Membrane Plus	North America	Long barrier function Fully resorbable
<b>Synthetic dPTFE membrane</b>	botiss permamem®	Europe	Ultra thin, strong structure Open healing possible Non-resorbable Has to be removed manually after < 4 weeks

The immediacy approach for placing dental implants is demanding on the human body. With its clinically proven beneficial impact on wound healing and favorable influence on scar tissue, Straumann® Emdogain® can make a real difference. We recommend a thin layer of Emdogain® on top of the membrane and after socket closure.



## 5.6 PRIMARY IMPLANT CLOSURE

BLC Implant Closure Caps, sterile			
RB Closure Cap		WB Closure Cap	
			
Compatibility	BLC Implant Ø 3.3 BLC Implant Ø 3.75	BLC Implant Ø 4.5 BLC Implant Ø 5.5 BLC Implant Ø 6.5	
Recommended tightening torque	hand-tight	hand-tight	
Article number	064.4100S	064.8102S	
Material	Titanium	Titanium	

**Note:** Since the RB BLC closure caps cover the whole implant shoulder, gingiva, bone particles or bone graft particles can easily be trapped between Healing Cap and implant. It is recommended to clean the implant connection thoroughly prior to the placement of the closure cap and to check the proper seating prior to wound closure, e.g. visually or by taking an x-ray.



## 5.7 HEALING PHASE

For the delayed loading surgical protocol, it is recommended to follow the healing time durations as indicated below:

Situation	Healing phase	
	SLActive®	SLA®
<ul style="list-style-type: none"> <li>• Good bone quality and adequate bone quantity</li> <li>• Implants with a diameter of 3.75 mm and wider and a Straumann® SLActive®/SLA® surface length of <math>\geq 8</math> mm</li> </ul>	At least 3–4 weeks	At least 6 weeks
<ul style="list-style-type: none"> <li>• Cancellous bone quality</li> <li>• Implants with a diameter of 3.3 mm</li> <li>• Implants with a Straumann® SLActive®/SLA® surface length of 6 mm</li> </ul>	At least 8 weeks	At least 12 weeks
<ul style="list-style-type: none"> <li>• Straumann® SLActive®/SLA® surface is not completely in contact with the bone</li> <li>• Bone augmentation measures* are necessary</li> </ul>	Healing phase corresponding to the situation	

# 6. PROSTHETIC WORKFLOW OVERVIEW

## 6.1 ABUTMENT OVERVIEW

	Anatomic Abutment	Straumann® Variobase® for Crown	Variobase® for Bridge/Bar for Cylindrical	Variobase® for Crown AS	Straumann® Screw-retained Abutment	Straumann® CARES® Abutment TAN	Straumann® CARES® Bridge/Bar	Straumann® Novaloc® ADLC	Gold Abutment for crown	Gold Abutment for bridge	Straumann® Variobase® C
<b>Single crown</b>											
Screw-retained		•		•	•				•		•
Cement-retained	•	•		•		•			•		•
<b>Bridge</b>											
Screw-retained			•		•		•			•	
Cement-retained	•		•				•		•		
<b>Removable overdentures</b>											
Telescope	•								•		
Retentive anchor							•				
Bar					•		•			•	
<b>Impression</b>											
Implant level	•	•	•	•	•				•	•	•
Abutment level					•						
Material*	Titanium alloy								Ceramic®		Titanium alloy

	Single- and multi-unit replacement				Edentulous treatment			
	Screw-retained		Cement-retained		Fixed		Removable	
<b>Premium</b>								
<b>Advanced</b>								
<b>Standard</b>								
			Screw-retained Abutment			Screw-retained Abutment		Screw-retained Abutment

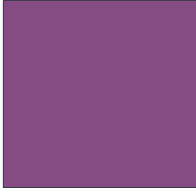





## 6.2 COLOR CODING SYSTEM

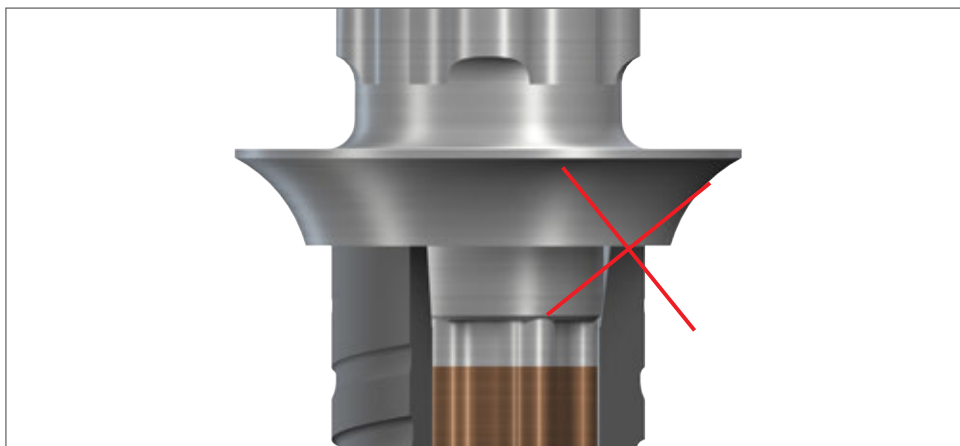
The Straumann® BLC Implant System has a simple and consistent color coding and laser markings for quick and precise identification of secondary parts, and auxiliaries.

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

Components color-coded magenta can be used on all BLC Implants  $\varnothing$ 3.3 up to  $\varnothing$ 6.5.

Components color-coded brown can only be used on BLC Implants  $\varnothing$ 4.5,  $\varnothing$ 5.5 and  $\varnothing$ 6.5.

Color coding		Implant diameters	Implant base
	 RB/WB	$\varnothing$ 3.3 mm $\varnothing$ 3.75 mm $\varnothing$ 4.5 mm $\varnothing$ 5.5 mm $\varnothing$ 6.5 mm	 RB      WB
	 WB	$\varnothing$ 4.5 mm $\varnothing$ 5.5 mm $\varnothing$ 6.5 mm	 WB



No WB Abutments on RB Implants!

## 6.3 OVERVIEW OF PROSTHETIC COMPONENTS

Ø 3.3 mm



Ø 3.75 mm



Impression-taking components Implant analogs	Engaging (with index)			Non-engaging (without index)				
	065.0031	065.0033	065.4310	065.0146	065.0148	065.0150		
	<p>Ø 3.8 mm</p>			Abutment diameter				
Gingiva height GH 0.75 mm								
Gingiva height GH 1.5 mm	062.4934	062.4981	062.4501		062.4944	062.4982	062.4972	062.4961 *
Gingiva height GH 2.5 mm	062.4935	062.5028	062.4502	062.4507	062.4945	062.5030		
Gingiva height GH 3.5 mm	062.4936	062.5029	062.4503	062.4508	062.4946	062.5031		
Gingiva height GH 4.5 mm			062.4504	062.4509				
Gingiva height GH 5.5 mm			062.4505	062.4510				
Gingiva height GH 6.5 mm			062.4506	062.4511				
Gingiva height GH 7.5 mm				062.4512				

\*Variobase® for Bridge/Bar Cylindrical and Gold Abutment for Bridges use separate healing and temporary parts to create a consistent emergence profile.



065.0103




065.0021



065.0038



065.0023

<b>Ø4.5 mm</b> 	<b>Ø6.0 mm</b> 
---	---



062.4722S



062.4420



062.4430 \*



062.4723S



062.4153



062.4103



062.4724S



062.4733S



062.4743S



062.4154



062.4104



062.4725S



062.4734S



062.4744S



062.4735S

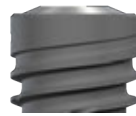


062.4745S

Ø4.5 mm



Ø5.5 mm



Ø6.5 mm



Impression-taking components  
Implant analogs



065.0032



065.0034



065.4810

Ø3.8 mm



Gingiva height



GH 0.75 mm

Gingiva height



GH 1.5 mm



062.4934



062.4981



062.4501



062.4410



062.4944



062.4982



062.4972



062.4961 \*

Gingiva height



GH 2.5 mm



062.4935



062.5028



062.4502



062.4507



062.4945



062.5030

Gingiva height



GH 3.5 mm



062.4936



062.5029



062.4503



062.4508



062.4946



062.5031

Gingiva height



GH 4.5 mm



062.4504



062.4509

Gingiva height



GH 5.5 mm



062.4505



062.4510

Gingiva height



GH 6.5 mm



062.4506



062.4511

Gingiva height



GH 7.5 mm



062.4512

\*Variobase® for Bridge/Bar Cylindrical and Gold Abutment for Bridges use separate healing and temporary parts to create a consistent emergence profile.



065.0103



065.0022



065.0038



065.0024

Abutment diameter

Ø 4.5 mm



Ø 6.0 mm



Ø 5.5 mm



062.4953



062.5032



062.4722S



062.4420



062.4430 \*



062.4954



062.4983



062.4971



062.8410



062.4723S



062.4153



062.4103



062.4724S



062.4733S



062.4743S



062.4154



062.4104



062.4725S



062.4734S



062.4744S



062.4735S



062.4745S

# 7. IMPORTANT CONSIDERATIONS

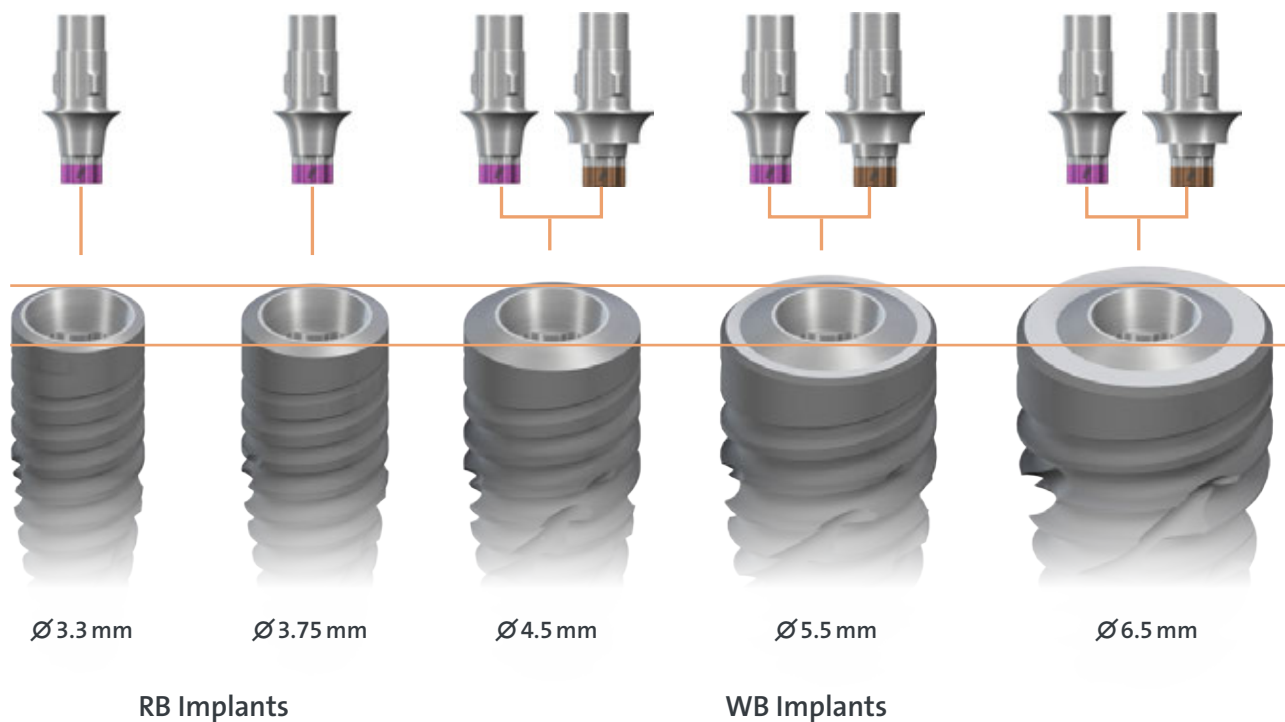
## 7.1 IMPLANT BASE CONCEPT

One prosthetic range

- RB/WB abutments fit on all BLC Implants

### Optional:

- WB abutments fit only on implants with an implant diameter larger than 4.5. WB abutments create a wide emergence profile starting from the shoulder





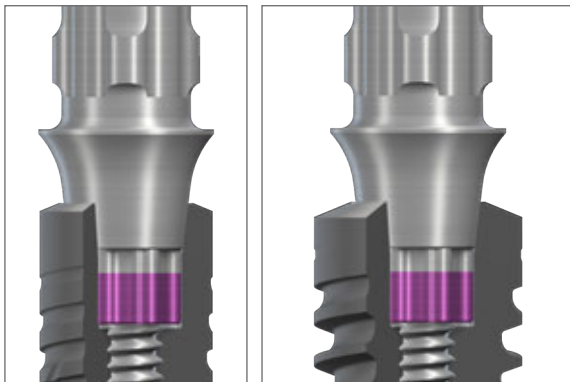
## 7.2 HOW TO VERIFY CORRECT IMPRESSION POST SEATING

BLC Impression Post Screws will only engage with the implant if correctly seated. Final seated Impression Posts engage at the flat shoulder of the implant.



## 7.3 HOW TO VERIFY CORRECT FINAL ABUTMENT SEATING

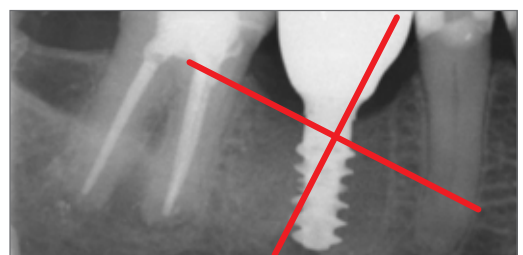
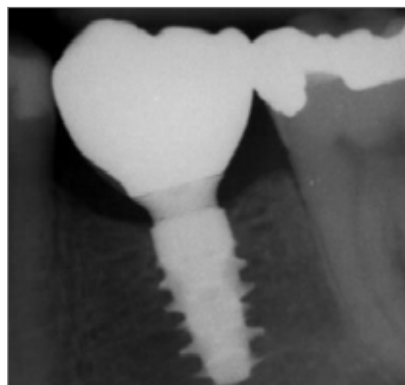
BLC Abutment Screws will only engage with the implant if correctly seated.



RB/WB abutments fit both RB and WB implants



WB abutments only fit WB implants



## 74 REMOVAL OF FINALLY TIGHTENED TORCFIT™ ABUTMENTS

Due to tight sealing of the 7° conus of the TorcFit™ connection, abutments can lock strongly in the implant after final insertion.

### 7.4.1 Removal Tool for BLC Basal Screw (065.0008 and 065.0009)

If the Basal Screw cannot be removed with the SCS Screwdriver [1], the Removal Tool may be used.

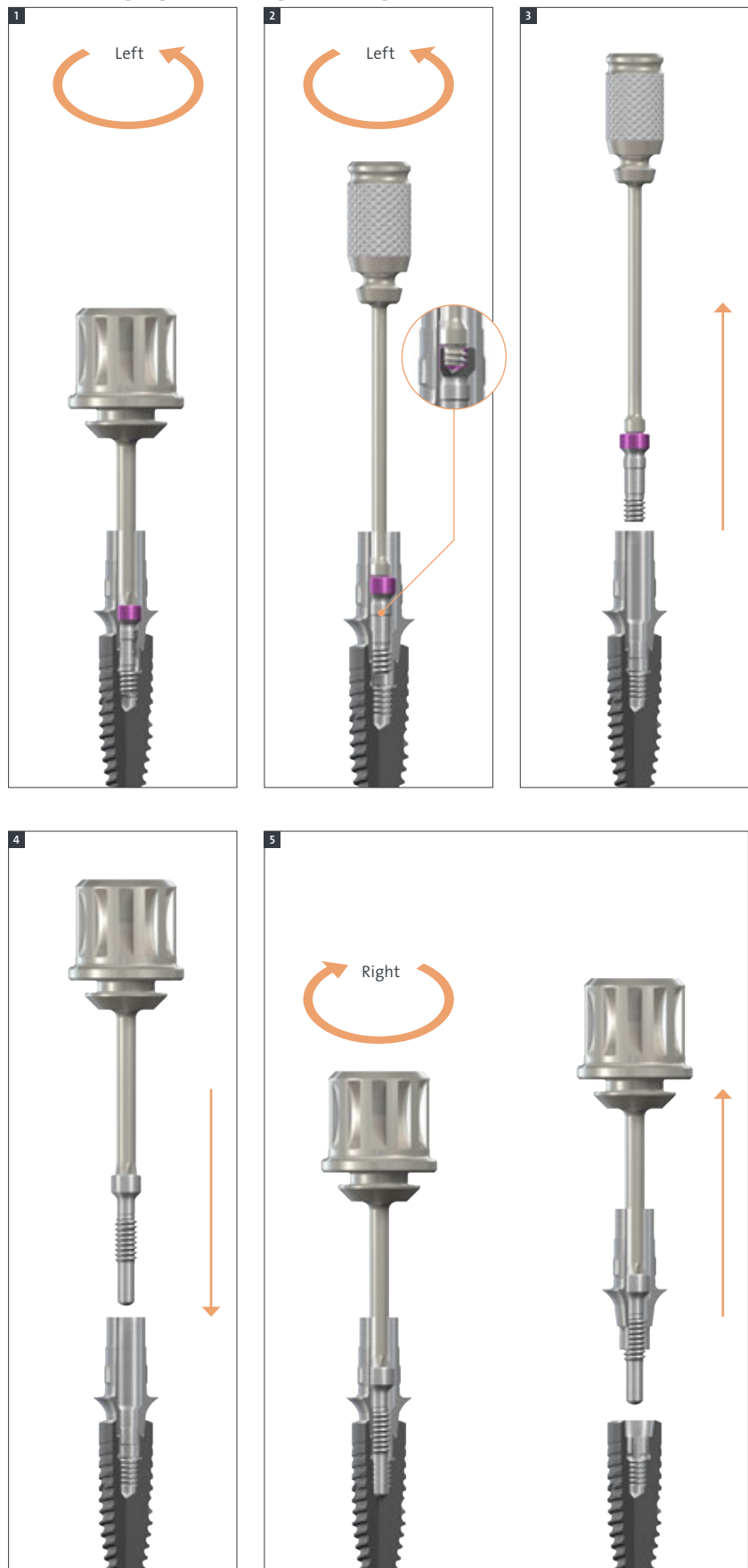
This tool features a left-hand thread that engages in the basal screw head [2] to remove the Basal Screw [3].

### 7.4.2 RB/WB Abutment Removal Screw (065.0007)

In case the Abutment cannot be removed using the SCS Screwdriver alone, the Abutment Removal Screw can be used.

Insert the SCS Screwdriver into the Abutment Removal Screw. Engage the screw into the abutment [4] until the grip is sufficient enough to free the abutment from the implant [5].

**Please note:** When dealing with Variobase® for Crown AS, there may be a need to remove or cut the crown in order to gain access to the screw channel. Once the crown has been taken off, the process for removing the angled abutment with the removal tool remains the same as that for the straight abutment.



# 8. SOFT TISSUE MANAGEMENT

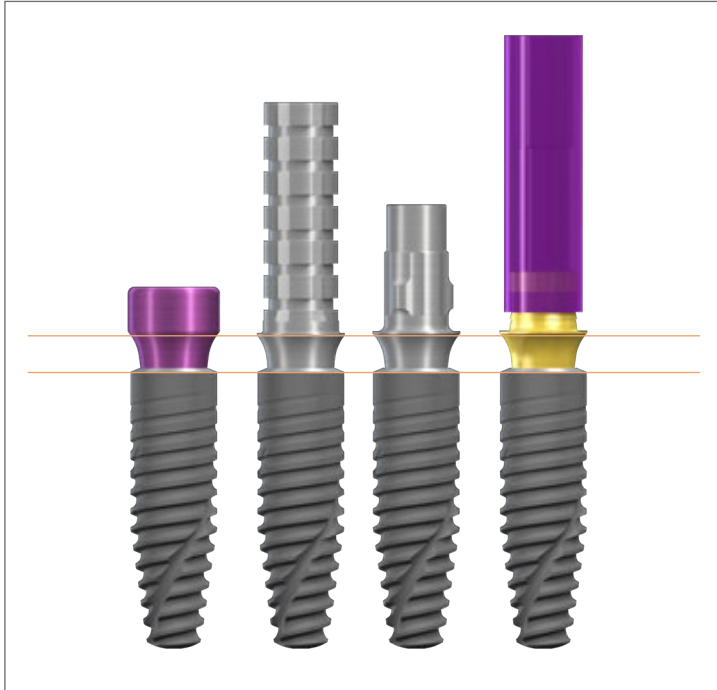


Figure 1: Consistent emergence profile by matching components (RB).

The Straumann® BLC Implant line puts a strong emphasis on esthetic considerations. It offers tailor-made solutions that allow for natural soft tissue shaping and maintenance in all indications. A versatile portfolio of healing and temporary abutments is available for easy and fast processing.

Esthetic results are determined by successful soft tissue management. To optimize the soft tissue management process, all healing abutments, temporary abutments and final abutments feature Consistent Emergence Profiles™. Thus, the emergence profiles are uniform throughout the treatment process.

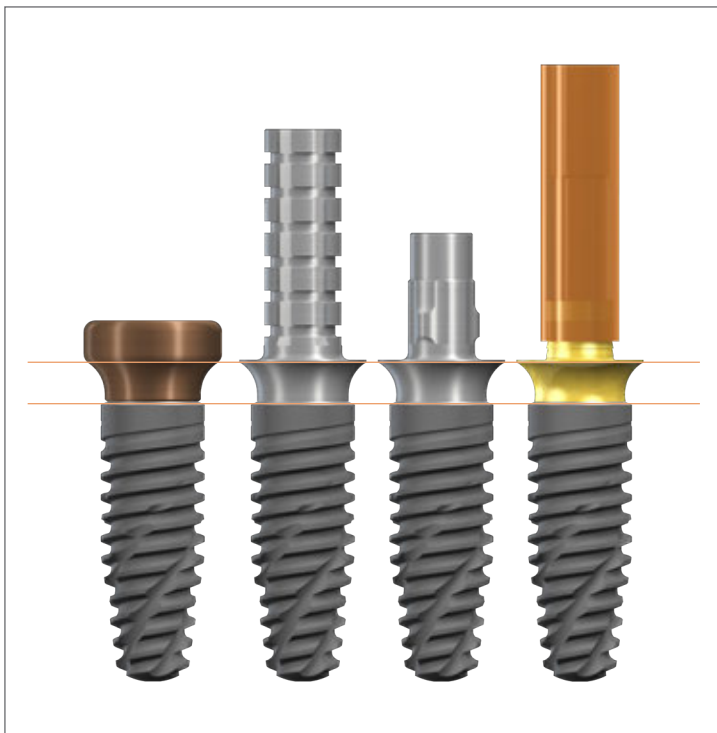
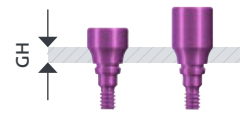
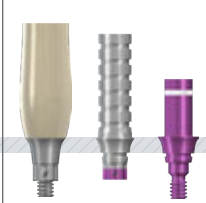
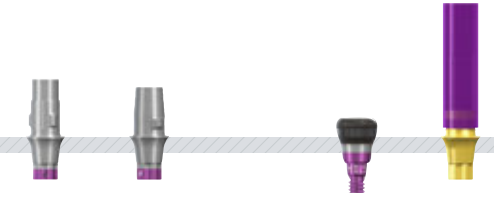
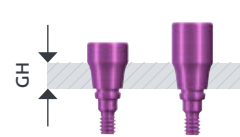
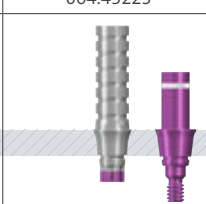
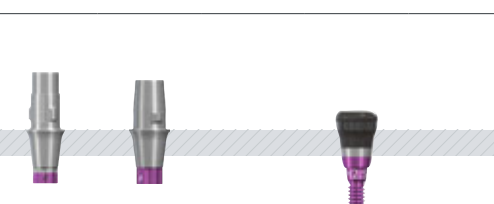
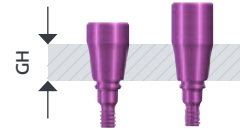
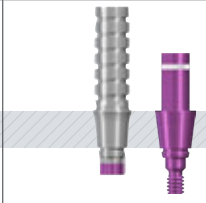
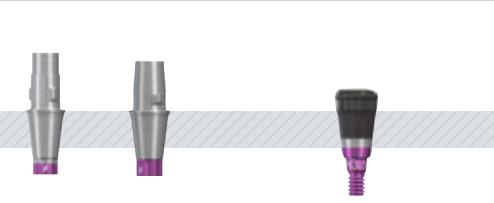
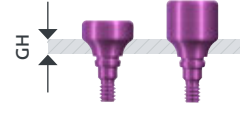
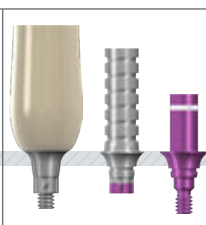
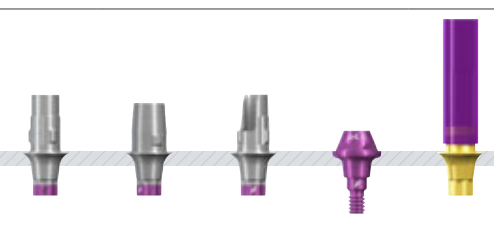

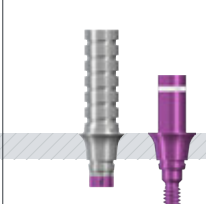
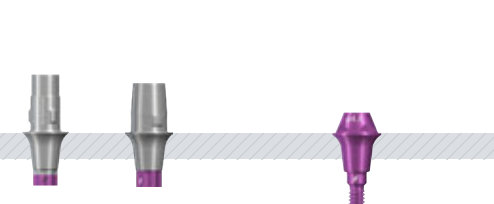

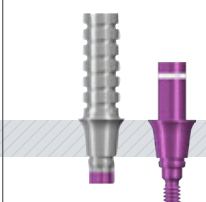
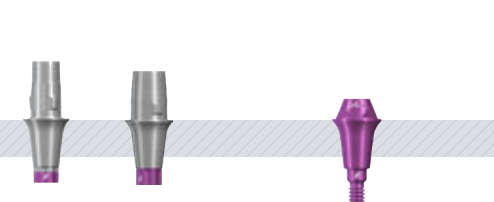




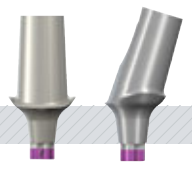



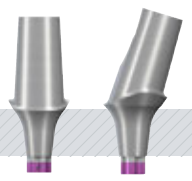




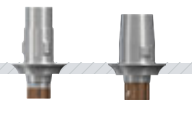

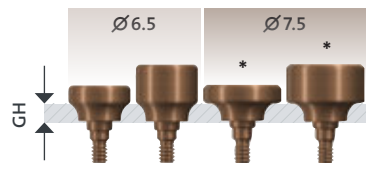

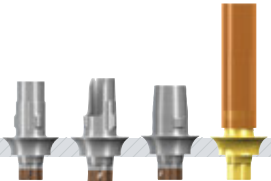


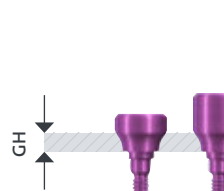




Figure 2: Consistent emergence profile by matching components (WB).

# 8.1 OVERVIEW OF CONSISTENT EMERGENCE PROFILES™

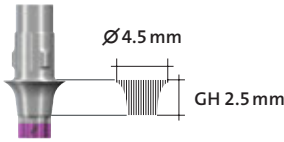
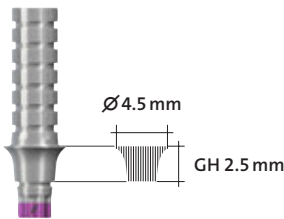
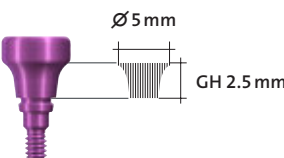
## 8.1.1 Which healing abutments suit which final abutment?

Crowns		Healing Abutments for Crown*	Temporary Abutments for Crown	Final Abutments
Final abutment Ø3.8 mm	Gingiva height GH 1.5 mm	 064.4202S / 064.4203S	 064.4361 / 064.4362 / 064.4322S	 062.4934 062.4981 062.4501 062.4410
	Gingiva height GH 2.5 mm	 064.4204S / 064.4205S	 064.4363 / 064.4323S	 062.4935 062.5028 062.4502
	Gingiva height GH 3.5 mm	 064.4206S / 064.4207S	 064.4364 / 064.4324S	 062.4936 062.5029 062.4503
Final abutment Ø4.5 mm	Gingiva height GH 1.5 mm	 064.4212S / 064.4213S	 064.4371 / 064.4372 / 064.4332S	 062.4944 062.4982 062.4972 062.4722S 062.4420
	Gingiva height GH 2.5 mm	 064.4214S / 064.4215S	 064.4373 / 064.4333S	 062.4945 062.5030 062.4723S
	Gingiva height GH 3.5 mm	 064.4216S / 064.4217S	 064.4374 / 064.4334S	 062.4946 062.5031 062.4724S

Crowns		Healing Abutments for Crown*	Temporary Abutments for Crown	Final Abutments
<b>Final abutment Ø6.0 mm</b> 	<b>Gingiva height</b>  GH 2.5 mm	 064.4224S / 064.4225S 064.4234S / 064.4235S	 064.4382	 062.4103 / 062.4153
	<b>Gingiva height</b>  GH 3.5 mm	 064.4226S / 064.4227S 064.4236S / 064.4237S	 064.4383	 062.4104 / 062.4154
<b>Final abutment Ø5.5 mm</b> 	<b>Gingiva height</b>  GH 0.75 mm	 064.8201S / 064.8202S / 064.8203S / 064.8204S	 064.4391	 062.4953 / 062.5032
	<b>Gingiva height</b>  GH 1.5 mm	 064.8212S / 064.8213S / 064.8214S / 064.8215S	 064.4390 / 064.4392	 062.4954 / 062.4971 / 062.4983 / 062.8410
Bridges		Healing Abutments for Bridges	Temporary Abutments for Bridges	Final Abutments Bridges
<b>Final abutment Ø4.5 mm</b> 	<b>Gingiva height</b>  GH 1.5 mm	 064.4232S / 064.4233S	 064.4352	 062.4961 / 062.4430

\* Healing abutments with same Consistent Emergence Profiles™ and different final diameter.

### 8.1.2 How to match fitting components

	<p>EN <b>RB/WB Variobase® for Crown</b> incl. screw, Ø 4.5mm, GH 2.5mm, AH 5.5mm, TAN</p> <p>DE <b>RB/WB Variobase® für Krone</b> inkl. Schraube, Ø 4.5mm, GH 2.5mm, AH 5.5mm, TAN</p> <p>FR <b>RB/WB Variobase® pour couronne</b> avec vis, Ø 4.5mm, GH 2.5mm, AH 5.5mm, TAN</p> <p>IT <b>RB/WB Variobase® per corona</b> vite incl., Ø 4.5mm, GH 2.5mm, AH 5.5mm, TAN</p> <p>PT <b>RB/WB Variobase® para coroa</b> incl. parafuso, Ø 4.5mm, GH 2.5mm, AH 5.5mm, TAN</p> <p>ES <b>RB/WB Variobase® para corona</b> incl. tornillo, Ø 4.5mm, GH 2.5mm, AH 5.5mm, TAN</p> <p><b>straumann</b> original</p> <p>REF 062.4943 LOT XXXXX</p> <p>ZZZZZZZZZZ</p> <p>Institut Straumann AG • Peter Merian-Weg 12 • CH-4002 Basel • Switzerland</p>	<p>RB/WB Variobase® for Crown, including screw, Ø 4.5 mm, GH 2.5 mm, AH 5.5 mm, TAN</p>			
	<p>EN <b>RB/WB Temporary Abutment</b> for crown, Ø 4.5mm, GH 2.5mm, TAN</p> <p>DE <b>RB/WB Provisoriumsekundärteil</b> für Krone, Ø 4.5mm, GH 2.5mm, TAN</p> <p>FR <b>RB/WB Pilier provisoire</b> pour couronnes, Ø 4.5mm, GH 2.5mm, TAN</p> <p>IT <b>RB/WB Componente secondaria provvisoria</b> per corona, Ø 4.5mm, GH 2.5mm, TAN</p> <p>PT <b>RB/WB Pilar provisório</b> para coroa, Ø 4.5mm, GH 2.5mm, TAN</p> <p>ES <b>RB/WB Pilar provisional</b> para corona, Ø 4.5mm, GH 2.5mm, TAN</p> <p><b>straumann</b> original</p> <p>REF 064.4373 LOT XXXXX</p> <p>ZZZZZZZZZZ</p> <p>Institut Straumann AG • Peter Merian-Weg 12 • CH-4002 Basel • Switzerland</p>	<p>RB/WB Temporary Abutment, for crown, Ø 4.5 mm, GH 2.5 mm, TAN</p>			
	<table border="1" data-bbox="635 987 938 1245"> <tbody> <tr> <td><b>straumann</b> REF 064.42145 LOT XXXXX</td> <td><b>straumann</b> REF 064.42145 LOT XXXXX</td> <td><b>straumann</b> REF 064.42145 LOT XXXXX</td> </tr> </tbody> </table> <p><b>RB/WB Healing Abutment*</b> Crown, Ø 5mm, GH 2.5mm, AH 2mm, Ti</p> <p>DE RB/WB Gingivalförmer Krone, Ø 5mm, GH 2.5mm, AH 2mm, Ti</p> <p>FR RB/WB Pilier de occlusion couronne, Ø 5mm, GH 2.5mm, AH 2mm, Ti</p> <p>IT RB/WB Componente secondaria di guarnigione corona, Ø 5mm, GH 2.5mm, AH 2mm, Ti</p> <p>PT RB/WB Pilar de oclusão coroa, Ø 5mm, GH 2.5mm, AH 2mm, Ti</p> <p>ES RB/WB Pilar de oclusión corona, Ø 5mm, GH 2.5mm, AH 2mm, Ti</p>	<b>straumann</b> REF 064.42145 LOT XXXXX	<b>straumann</b> REF 064.42145 LOT XXXXX	<b>straumann</b> REF 064.42145 LOT XXXXX	<p>RB/WB Healing Abutment*, Crown, Ø 5 mm, GH 2.5 mm, AH 2 mm, Ti</p>
<b>straumann</b> REF 064.42145 LOT XXXXX	<b>straumann</b> REF 064.42145 LOT XXXXX	<b>straumann</b> REF 064.42145 LOT XXXXX			

\* Healing abutments anticipate the final crown, therefore they have a larger nominal diameter than the final abutments.

# 9. TEMPORARY RESTORATION

## 9.1 HEALING CAP – TITANIUM GRADE 4

### 9.1.1 Intended use

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

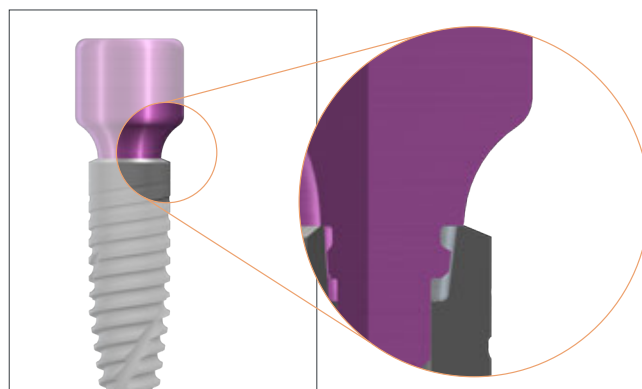
### 9.1.2 Characteristics

#### Simple

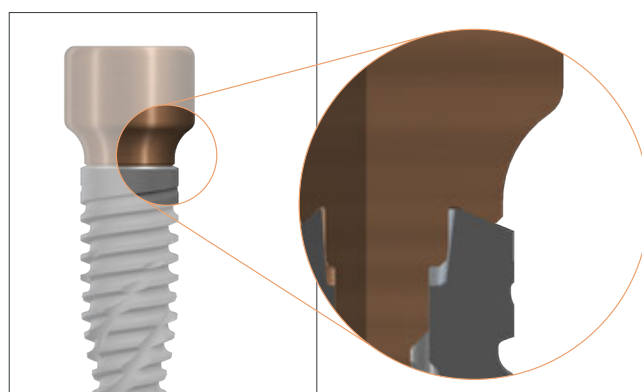
- One-piece design
- Color-coded emergence profile base and laser-marked diameters and gingiva heights
- Two different abutment heights for different soft tissue thickness
- Cylindrical section gives space to soft tissue
- Shape anticipates the emergence profile of the crown
- Anatomically shaped emergence profiles, healing abutments, temporary posts and final abutments (for optimal component selection see Chapter 8.1 “Overview of Consistent Emergence Profiles™”)

#### Reliable

- Tight sealing on the top surface of implant
- Flat sealing for healing and temporary components to protect inner cone

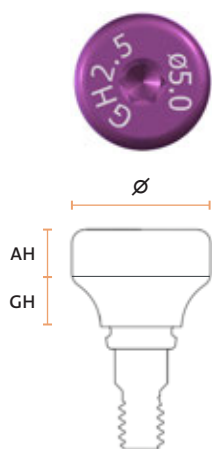


RB/WB Healing Abutment sealing mechanism



WB Healing Abutment sealing mechanism

### 9.1.3 Overview of Healing Abutment dimensions



AH = abutment height  
GH = gingiva height  
∅ = diameter

		Healing Abutments (∅)						
		RB/WB				WB		
GH	AH	∅ 4.0	∅ 5.0	∅ 6.5	∅ 7.5	∅ 6.0	∅ 7.5	Total height
0.75 mm	2 mm 4 mm	-				064.8201S	064.8203S	2.75 mm
						064.8202S	064.8204S	4.75 mm
1.5 mm		064.4202S	064.4212S	064.4222S	-	064.8212S	064.8214S	3.5 mm
		064.4203S	064.4213S	064.4223S	-	064.8213S	064.8215S	5.5 mm
2.5 mm		064.4204S	064.4214S	064.4224S	064.4234S	-		4.5 mm
		064.4205S	064.4215S	064.4225S	064.4235S			6.5 mm
3.5 mm		064.4206S	064.4216S	064.4226S	064.4236S	-		5.5 mm
		064.4207S	064.4217S	064.4227S	064.4237S			7.5 mm
		∅ 3.8	∅ 4.5	∅ 6.0	∅ 5.5			
Matching Final Abutments ∅								

Note: Separate healing abutments for bridge available.

## 9.2 TEMPORARY ABUTMENT – TITANIUM ALLOY (TAN)

### 9.2.1 Intended use

- Cement-retained temporary crowns

### 9.2.2 Characteristics

#### More solutions

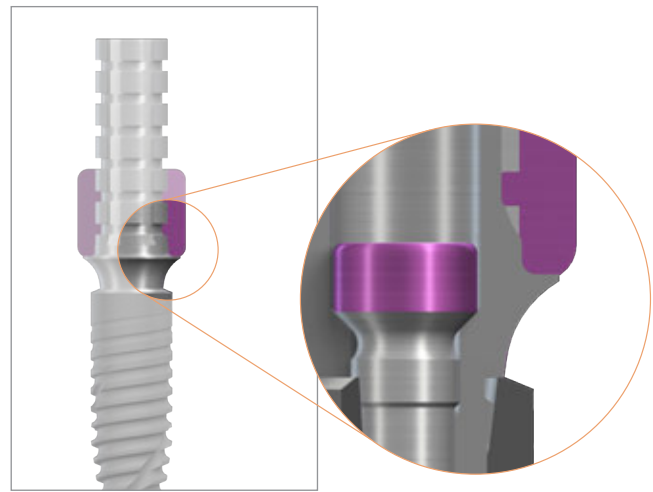
- Narrow diameter for narrow interdental spaces
- Crowns
- Anterior and posterior region
- Color coded emergence profile base

#### Reliable

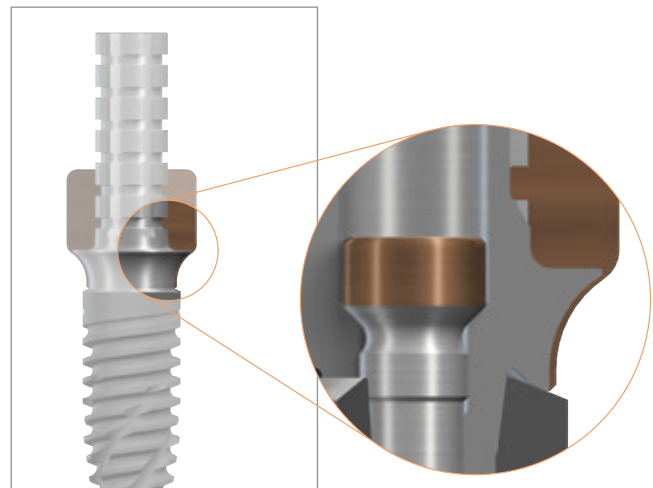
- High stability due to titanium alloy (TAN) material
- TorcFit™ connection for engaging abutments
- Tight sealing on top surface of implant
- Flat sealing to protect inner cone for final abutments
- Anatomically shaped emergence profiles, healing abutments, temporary posts and final abutments (for optimal component selection see Chapter 8.1 “Overview of Consistent Emergence Profiles™”)

**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.

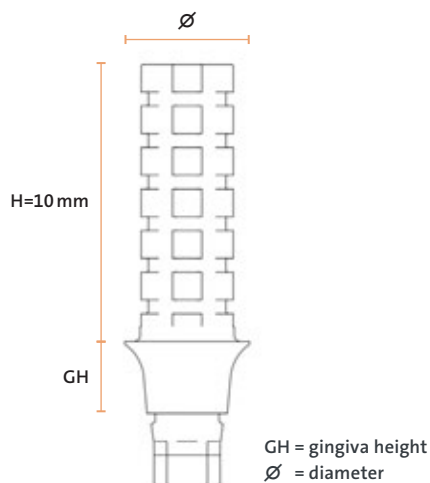


RB/WB Temporary Abutment



WB Temporary Abutment

### 9.2.3 Overview of Temporary Abutment dimensions



		Diameter (Ø)			
		Ø 3.8 mm	Ø 4.5 mm	Ø 6.0 mm	Ø 5.5 mm (WB)
GH	0.75 mm	–			064.4391
	1.5 mm	064.4362	064.4372 064.4352*	–	064.4391
	2.5 mm	064.4363	064.4373	064.4382	–
	3.5 mm	064.4364	064.4374	064.4383	
	4.5 mm	–			

For detailed instructions how to use temporary abutments, please refer to *Straumann® Bone Level Prosthetic Procedures, Basic Information* (702061/en).



## 9.3 IMMEDIATE TEMPORARY ABUTMENT – TITANIUM ALLOY (TAN)

### 9.3.1 Intended use

- Cement-retained temporary crowns
- In implants that are osseointegrated or in the immediate loading technique as long as the minimum implant insertion torque value of 35 Ncm has been achieved

### 9.3.2 Characteristics

#### Simple

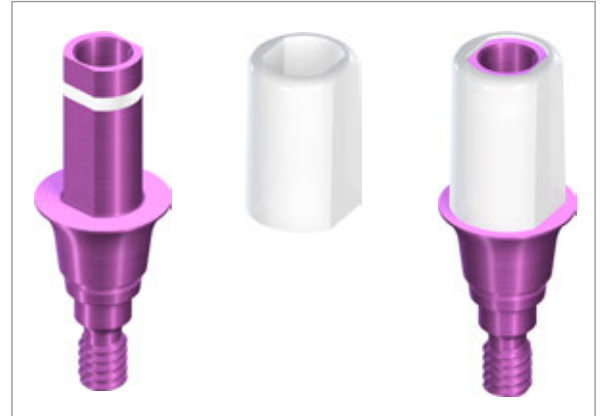
- Chairside workflow using associated Plastic Coping
- Easy choice of components thanks to color-coding

#### Reliable













- Pre-sterilized abutment

**Note:** Do not keep the Immediate Temporary Abutment and Plastic Coping in the patient's mouth for longer than 180 days. The temporary cement margin should be less than 2 mm below the gingiva.

BLC (TorcFit™)



Magenta abutments: RB/WB connection

	Ø3.8mm 	Ø4.5mm 	Compatible Plastic Coping (PMMA)
Gingiva height  GH 1.5mm	 064.4322S	 064.4332S	 023.0033V2 (pack of 2)
Gingiva height  GH 2.5mm	 064.4323S	 064.4333S	
Gingiva height  GH 3.5mm	 064.4324S	 064.4334S	

## 9.4 TEMPORARY ABUTMENT – POLYMER WITH TITANIUM-ALLOY INLAY (VITA CAD-TEMP®/TAN)

### 9.4.1 Intended use

- Individual soft tissue management for esthetic cases
- Screw or cement-retained temporary crowns
- Cement-retained temporary bridges

### 9.4.2 Characteristics

#### Simple

- Easy-to-achieve esthetic long-term temporary crowns and bridges (maximum 180 days)
- Tooth-colored customizable polymer material

#### Efficient

- Efficient chair-side dentist workflow: ready-to-prepare temporary abutment

#### Reliable

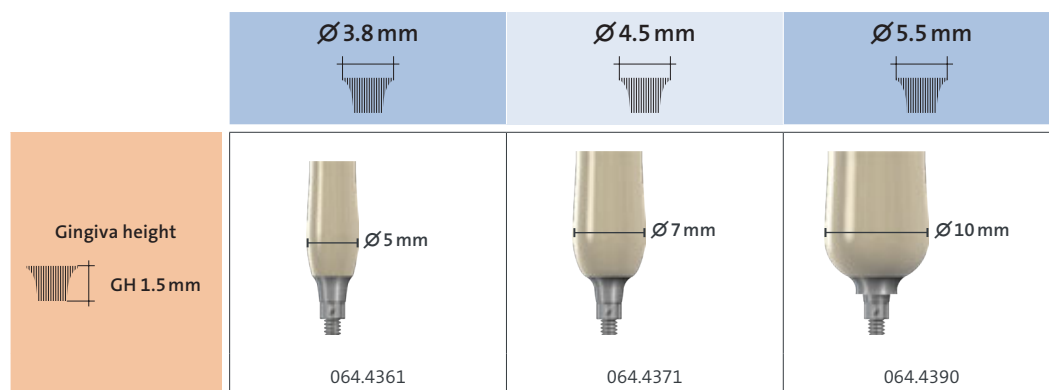
- TorcFit™ connection: precise fit and high mechanical stability

#### Note:

Do not use for longer than 180 days. Place temporary restoration out of occlusion.

- The devices are provided non-sterile and are for single use only.
- The abutment must be secured against aspiration during intra-oral use.
- The abutments must be cleaned and sterilized prior use. Follow the guidelines described in the IFU.

BLC (TorcFit™)



# 10. IMPRESSION TAKING

## 10.1 CONVENTIONAL IMPLANT LEVEL IMPRESSION TAKING

### 10.1.1 Intended use

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

### 10.1.2 Characteristics

#### Simple

- Color-coded components for easy information transfer from mouth to master model
- Slender emergence profile accommodates space limitations
- Guide screw can be tightened either by hand or with the SCS Screwdriver (15 Ncm)

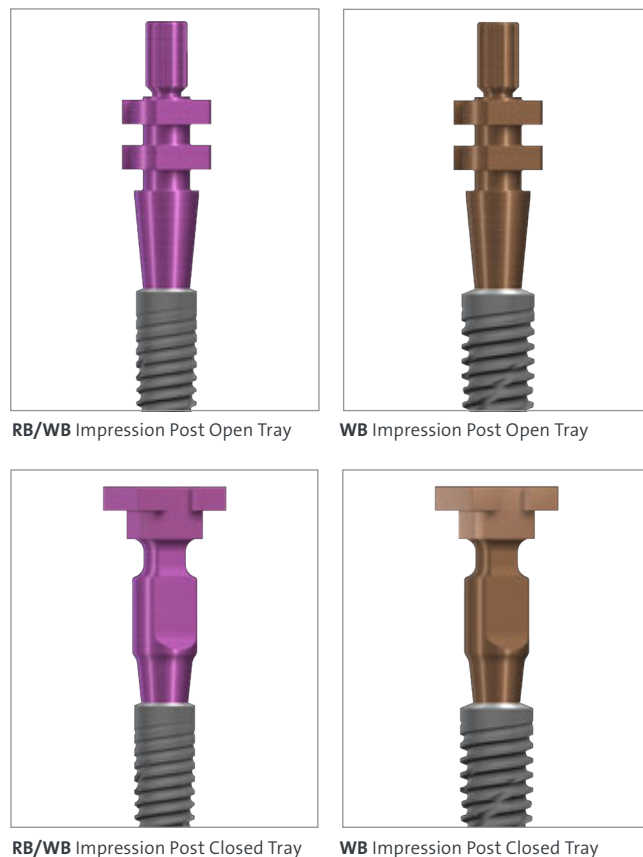
#### Reliable

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

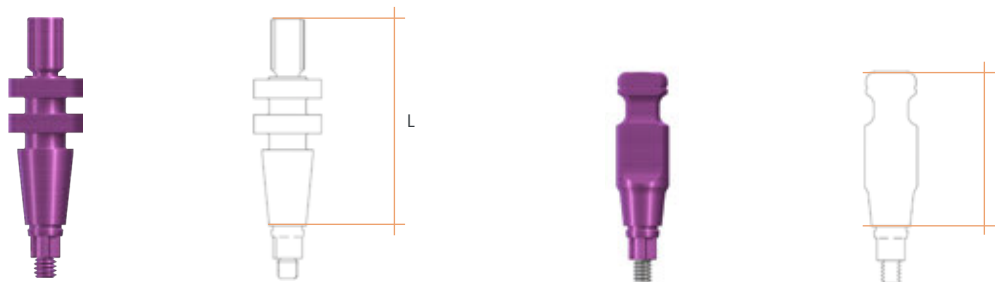
**Note:** Open-tray impression procedure requires a custom-made tray with perforations.

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

RB/WB and WB Impression Posts only vary in the color code but have a similar design otherwise.



### 10.1.3 Overview of Impression Post dimensions








L = length

For detailed instructions on impression taking, please refer to *Straumann® Bone Level Prosthetic Procedures, Basic Information (702061/en)*.

## 10.2 DIGITAL IMPRESSIONS: STRAUMANN® CARES® MONO SCANBODY

### 10.2.1 Product description

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

BLC			
	Scanbody RB/WB, for implant-level scanning	Straumann® ScanPost S RB/WB L (Variobase® C) for implant-level scanning	Scanbody for Screw-retained Abutment, for abutment level, Ø4.6 mm, PEEK / TAN
			
Compatibility			
Number of components	2: Scanbody, self-retaining screw		
Component/material	Scanbody: Stainless steel Screw: titanium alloy (TAN)	Scanbody: titanium alloy (TAN) Screw: titanium alloy (TAN)	Scanbody: Stainless steel Screw: titanium alloy (TAN)

For detailed instructions on how to use the Scanbody, please refer to *Straumann® Scanbody, Basic Information (450.037/en)*.

For detailed instructions how to take conventional impression, please refer to *Straumann® Bone Level Prosthetic Procedures, Basic Information (702061/en)*.

# 11. FINAL RESTORATION

## 11.1 STRAUMANN® SCREW-RETAINED ABUTMENTS

### 11.2.1 Intended use

- Screw-retained multi-unit as well as single-unit restorations at abutment level
- Full-arch restorations at abutment-level, screw-retained as well as removable

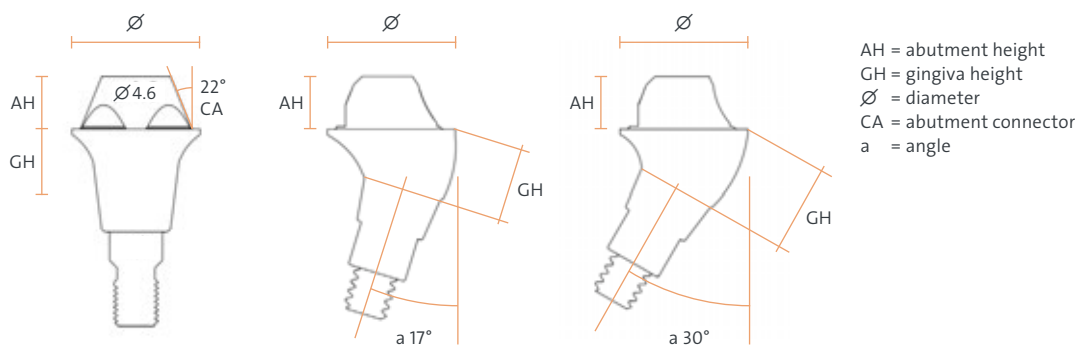
### 11.1.2 Characteristics

#### Sleek design and clear portfolio

- Same low abutment connector design allows streamlined tertiary components over all implant types
- Abutment angulations of 0°, 17° and 30°
- Abutment design allows both multi-unit and single-unit restorations
- Sterile packed for immediate use
- Different gingiva heights of 1.5 mm, 2.5 mm, 3.5 mm, 4.5 mm and 5.5 mm
- Simplified handling with the TorcFit™ connection
- Straight abutments in one-piece design
















### 11.1.3 Overview of Screw-retained Abutment dimensions



		Diameter (Ø)		
		Ø 4.6 (RB/WB)		
Angle (a)		0°	17°	30°
GH	0.75 mm	–	–	
	1.5 mm	062.4722S		
	2.5 mm	062.4723S		
	3.5 mm	062.4724S	062.4733S	062.4743S
	4.5 mm	062.4725S	062.4734S	062.4744S
	5.5 mm	–	062.4735S	062.4745S

Engaging feature for single-unit restorations / non-engaging feature for multi-unit restorations

Engaging (Crown)			Non-engaging (Bridges/Bar)						
									
									
Burn-out Coping 023.4748	Coping, TAN 024.0023	Coping 023.4753	Coping, TAN, for Bridge 024.0024	Coping, Ti, for Bar 023.4752	Coping, for Bridge 023.4754	Coping, for Bar 023.4755	Variobase® for Bridge/Bar Cylindrical 023.0028	Burn-out Coping, for Variobase® for Bridge/Bar Cylindrical Coping 023.0032	Burn-out Coping 023.4758
 Occlusal Screw 023.4763									

**Preparation – abutment placement**

Clean and dry the interior of the implants thoroughly.

Position the abutments in the implants. Tighten them to 35 Ncm using the SCS Screwdriver along with the Ratchet and the Torque Control Device.

Plan Abutments for RB/WB Screw-retained Abutments for intra- and extra-oral planning.

- All gingiva heights marked on each abutment
- Possibility to cut the pin for easier placement in posterior region
- Fabricated of sterilizable polymer material



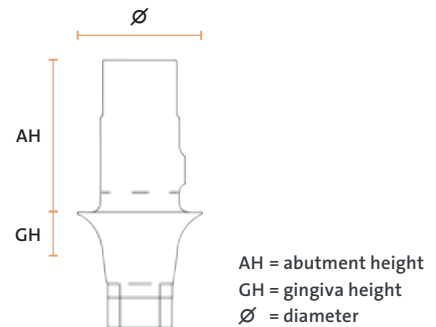
**Note:** After intraoral use clean and sterilize the Plan Abutment as described in the IFU *Instructions for Use: Straumann® Prosthetic Planning and Placement Tools (702879)*.





**Note:** Do not modify the abutments. For processing in the dental lab use the Lab Processing screws.

For detailed instructions on how to use BLC Screw-retained Abutments, please refer to *Straumann® Bone Level Prosthetic Procedures, Basic Information (702061/en)*.

## 11.2 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><b>Variobase® for Crown</b></p> <ul style="list-style-type: none"> <li>• Abutment heights 5.5 mm available</li> <li>• Possibility to tailor the abutment height 5.5 mm down to 3.5 mm</li> <li>• Different gingiva heights available</li> </ul>
		<p><b>Variobase® for Crown AS</b></p> <ul style="list-style-type: none"> <li>• Screw-channel angulation of up to 25°</li> <li>• Abutment heights 5.5 mm available</li> </ul>
		<p><b>Variobase® C</b></p> <ul style="list-style-type: none"> <li>• Integrated in Sirona®'s software libraries</li> <li>• Chimney design matches the shape of Sirona®'s Scanbodies and pre-fabricated screw-channel in material blocks</li> </ul>
Multi-unit and full-arch restorations		<p><b>Variobase® for Bridge/Bar</b></p> <ul style="list-style-type: none"> <li>• Cementation Aid for Variobase® for Bridge/Bar Cylindrical supporting an easy cementation procedure</li> <li>• Non-engaging interface sitting on the implant shoulder to provide high angulation compensation</li> </ul>






### 11.2.1 Variobase® component overview

Following Variobase® prosthetic components cover the BLC Implant platforms:

#### Variobase® for Crown











	BLC RB/WB		BLC WB
	∅ 3.8 mm	∅ 4.5 mm	∅ 5.5 mm
Abutments Variobase® for Crown	GH 0.75 mm		
			 062.4953
	GH 1.5 mm		
	 062.4934	 062.4944	 062.4954
	GH 2.5 mm		
 062.4935	 062.4945		
GH 3.5 mm			
 062.4936	 062.4946		
Burn-out Copings for Variobase® for Crown	 065.0014	 065.0015	 065.0016
Screws for Variobase® for Crown	 065.0036		

#### Variobase® for Crown AS

	BLC RB/WB		BLC WB
	∅ 3.8 mm	∅ 4.5 mm	∅ 5.5 mm
Abutments Variobase® for Crown AS	GH 1.5 mm		
		 062.4972	 062.4971
Burn-out Copings for Variobase® for Crown AS		 065.0018	 065.0019
Screws for Variobase® for Crown AS	 065.0037		



Variobase® C (Sirona® CEREC®)





		BLC RB/WB		BLC WB
		Ø 3.8 mm	Ø 4.5 mm	Ø 5.5 mm
Abutments Variobase® C		GH 1.5 mm		
	Gingiva Height 0.75 mm	-		 062.5032
	Gingiva Height 1.5 mm	 062.4981	 062.4982	 062.4983
	Gingiva Height 2.5 mm	 062.5028	 062.5030	-
	Gingiva Height 3.5 mm	 062.5029	 062.5031	
Sirona® Scanbody size	"S" or "L"		"L"	
Straumann® ScanPost*	 065.0038			
Material block Screw-hole size	"S"		"L"	
Replacement screw	 065.0036			

\*Please use Scanbody Size S when using the Straumann® Variobase® C for scanning  
Please use Scanbody Size L when using the Straumann® ScanPost S RB/WB L

**Note:**

- Order the Variobase® C and Straumann® ScanPost via the Straumann® sales channels.
- Order the Sirona® Scanbody through Sirona®'s distribution channels.
- Order the material block with pre-fabricated screw-channel through the material manufacturer's distribution channels.

## Variobase® for Bridge/Bar Cylindrical

	Ø 3.8 mm	Ø 4.5 mm	Ø 5.5 mm
Abutments Variobase® for Bridge/Bar Cylindrical	GH 1.5 mm		
		 062.4961	
		 160.3	
		 065.0017 / 065.0017V4	
Screws for Variobase® for Bridge/Bar Cylindrical		 065.0036	

**Note:** For bridge reconstructions use dedicated Healing Abutments and Temporary Abutments to ensure appropriate protection of the implant shoulder during the healing phase.



RB/WB Healing Abutment Bridge/Bar



RB/WB Temporary Abutment for Bridge/Bar

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

## 11.3 STRAUMANN® ANATOMIC ABUTMENTS

### 11.3.1 Intended use

- Cement-retained restorations

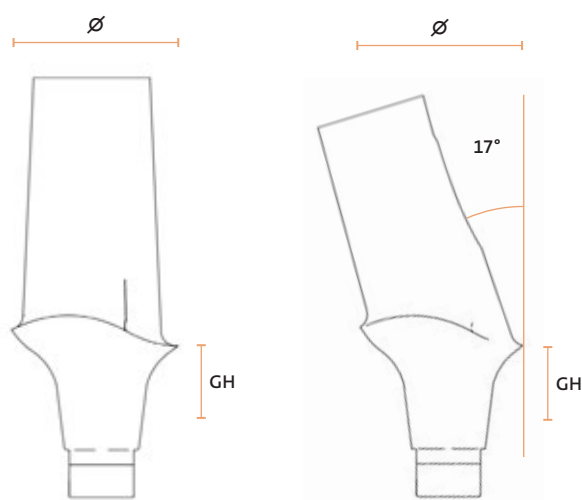
### 11.3.2 Characteristics

#### Simple and Reliable

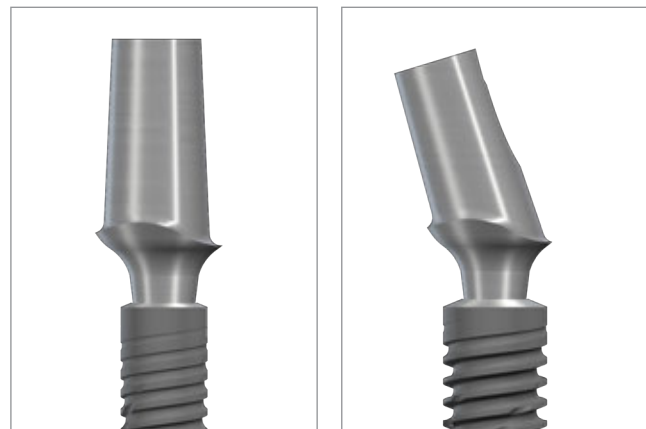
- Less grinding necessary due to prepared mucosa margins
- Adaptation to natural soft tissue contour due to prepared mucosa margins at different heights
- Oval shape resembles emergence profile of a natural tooth
- 0° and 17°
- Anatomically shaped emergence profiles, healing abutments, temporary posts and final abutments (for optimal component selection see Chapter 8.1 “Overview of Consistent Emergence Profiles™”)

A minimum height of 3 mm above the mucosa margin of the abutment must be maintained in order to maintain proper stability of the abutment. The cement margin must not be more than 2 mm below the mucosa. Use a new basal screw for the final insertion of the abutment.

### 11.3.3 Overview of anatomic abutment dimensions



GH = gingiva height ∅ = diameter



RB/WB Anatomic Abutment, straight

RB/WB Anatomic Abutment, angled

		Diameter (∅)		
		∅ 6 mm		
Angle	GH	0°	17°	
		0.75 mm	062.4103	062.4153
1.5 mm	–			
2.5 mm	062.4104	062.4154		
3.5 mm	–	–		
4.5 mm	–	–		

For detailed instructions on how to use the Anatomic Abutments, please refer to *Straumann® Bone Level Prosthetic Procedures, Basic Information (702061/en)*.

## 11.4 STRAUMANN® GOLD ABUTMENTS

### 11.4.1 Intended use

- Screw-retained or cement-retained crowns and bridges
- Cement-retained bridges via mesostructure (custom abutment technique)
- Telescopic crowns and telescopic bridges

### 11.4.2 Characteristics

#### Simple

- Easy wax-up and protection of the screw channel due to modelling aid (burn-out polymer)
- Easy-to-achieve esthetics due to individual contouring of the emergence profile and adaptation to the margin of the gingival contour

#### Reliable

- Superfluous cement easily removable by raising the cement margin using an individually designed mesostructure
- TorcFit™ connection

**Note:** For screw-retained bridges the gold abutment for bridge must be used.



RB/WB Gold Abutment, for crown

RB/WB Gold Abutment, for bridge

### 11.4.3 Overview of Gold Abutments

		Diameter (Ø)		
		Ø 3.8 mm (RB/WB)	Ø 4.5 mm (RB/WB)	Ø 5.5 mm (WB)
GH	0.75 mm	–		
	1.5 mm	062.4410	062.4420 062.4430*	062.8410
	2.5 mm	–		
	3.5 mm	–		
	4.5 mm	–		

\*For Gold Abutment for Bridge, use separate healing and temporary parts “for bridge” to create a consistent emergence profile.

For detailed instructions how to use Gold Abutments, please refer to *Straumann® Bone Level Prosthetic Procedures, Basic Information* (702061/en).

## 11.5 STRAUMANN® NOVALOC® ABUTMENTS

The Straumann® Novaloc® Retentive System for hybrid dentures offers an innovative carbon-based abutment coating (ADLC<sup>1</sup>) with an excellent wear resistance, overcoming up to 60° 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 PEEK<sup>2</sup> matrices, the Novaloc® Retentive System provides a unique and long-lasting attachment performance.

### 11.5.1 Characteristics

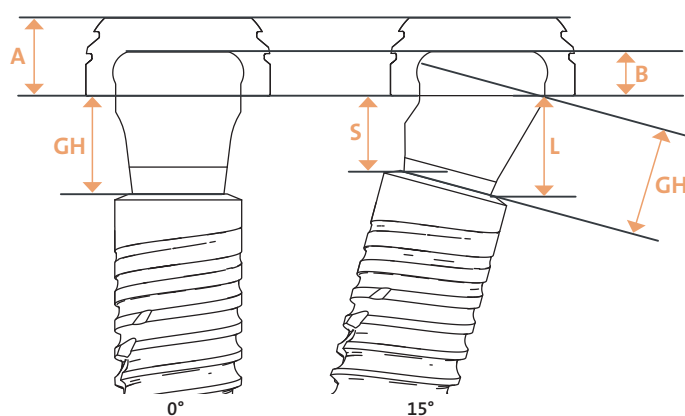
- PEEK<sup>2</sup> matrix inserts offering excellent chemical and physical properties
- Matrix accommodates up to 40° prosthetic divergence between two abutments
- 6 retention strengths offer optimal adjustment of the denture retention
- Matrix Housing available in titanium, or color-neutral PEEK<sup>2</sup> for a more aesthetic outcome
- Carbon-based abutment coating (ADLC<sup>1</sup>) offering a smooth surface and ultimate hardness for excellent wear resistance



RB/WB Novaloc® ADLC, straight

RB/WB Novaloc® ADLC, angled

### 11.5.2 Overview of Novaloc® Abutment dimensions



		Diameter (Ø)			
		Ø 3.8 mm (RB/WB)			
Angle		0°	15°		
GH	1.5 mm	062.4501	–	S	L
	2.5 mm	062.4502	062.4507	1.2 mm	1.9 mm
	3.5 mm	062.4503	062.4508	2.2 mm	2.9 mm
	4.5 mm	062.4504	062.4509	3.2 mm	3.9 mm
	5.5 mm	062.4505	062.4510	4.2 mm	4.9 mm
	6.5 mm	062.4506	062.4511	5.2 mm	5.9 mm
	7.5 mm	–	062.4512	6.2 mm	6.9 mm
Matrix			A	2.3 mm	
			B	1.4 mm	

For detailed instructions on how to use BLC Novaloc® Abutments, please refer to *Straumann® Novaloc® Retentive System for Hybrid Dentures* (702067/en).

<sup>1</sup> Amorphous Diamond-Like Carbon

<sup>2</sup> Polyether ether ketone

## 11.6 STRAUMANN® CARES® ABUTMENTS

### 11.6.1 Intended use

- Cement-retained crowns (CARES® TAN)
- Cement-retained bridges via mesostructure
- Directly veneered crowns (CARES® CoCr)

### 11.6.2 Material

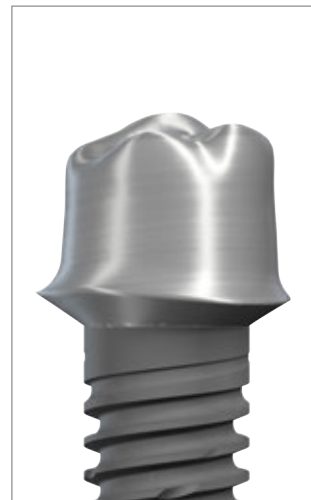
- Titanium-Aluminum-Niobium (TAN)
- Cobalt Chromium (CoCr)

### 11.6.3 Characteristics

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



RB/WB Straumann® CARES® Abutment



WB Straumann® CARES® Abutment

For detailed instructions on how to use CARES® abutments, please refer to *Straumann® CARES® Implant-borne prosthetics, Basic Information* (702165/en).

## 11.7 STRAUMANN® SCREW-RETAINED BARS AND BRIDGES (SRBB)

### 11.7.1 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.

### 11.7.2 Material

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



RB/WB Straumann® CARES® Screw-retained Bars and Bridges

#### 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.

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

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, if abutments subsequently need to be placed on the master model, only a torque of 35 Ncm will adequately represent the final oral situation. 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* (702165/en).

### 11.7.3 Straumann® CARES® SRBB working conditions

	CARES® SRBB are available on the following Straumann platforms		Divergence compensation between any two platforms		Screws for Straumann® CARES® SRBB
			Ti	coron®	
Implant level	Straumann® Tissue Level Implants	Regular Neck (RN)	40°		synOcta® Basal Screw 048.356
		Wide Neck (WN)			
	Straumann® Bone Level Implants	Regular CrossFit® (RC)	30°		NC/RC SRBB BL Screw 025.2926
		Narrow CrossFit® (NC)			
Straumann® BLC and BLX Implants	RB/WB (Regular Base and Wide Base)	40°		RB/WB SRBB Basal Screw, straight, TAN 065.0036	
Abutment level	Straumann® Screw-retained Abutment	∅ 4.6 mm	50°	40°	NC/RC Occlusal Screw, TAN for Coping, Screw-retained Abutment 023.4763
		∅ 3.5 mm	30°	30°	

**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 with the CARES® SRBB are meant for patient use. For additional screws in case of loss or for lab use, only use the screws listed in the chart above.

## 11.8 STRAUMANN® CARES® SCAN & SHAPE

CARES® Scan & Shape allows you to benefit from the knowledge and experience of a highly trained team of CAD/CAM 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: customized abutments, CARES® Screw-retained Bars and Bridges (SRBB), CARES® X-Stream™ Restorative Options and tooth-borne restorations via Scan & Shape.\*

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

#### Ordering process

- The CARES® Scan & Shape online ordering platform provides a one-stop-shop for all your customized prosthetics
- Send digital files using our open STL-Files upload\* service or
- 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 *Straumann® CARES® Scan & Shape, Basic Information (702168/en)*.

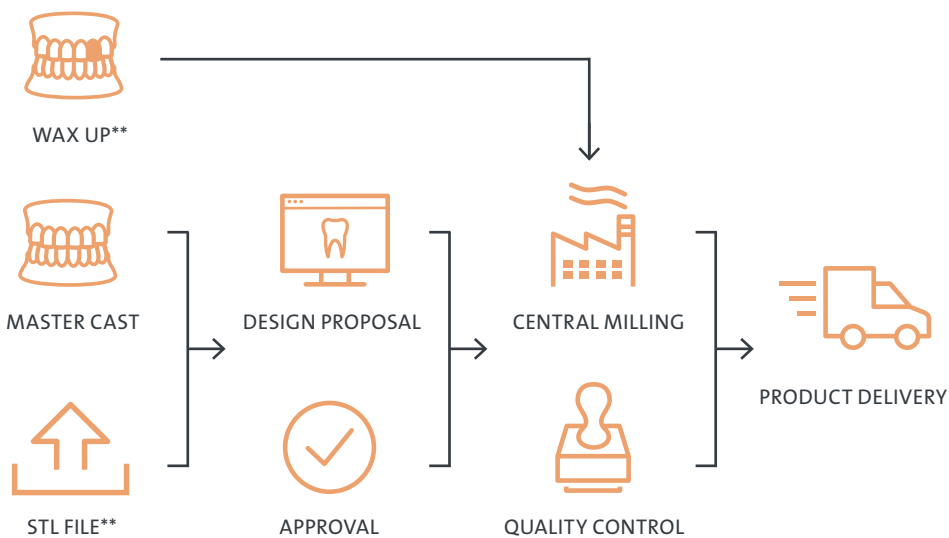
\* Not all products, services and workflows are available in all countries. Please contact your sales representative for a detailed overview.  
*Technical handling information*

### 11.8.1 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 open STL files.

#### Digital functionality\*\*

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



#### 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 (702168/en)* or contact your local Straumann representative.



\* Not all products, services 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.



## 11.9 SMILE IN A BOX®






Smile in a Box® is a flexible treatment planning and manufacturing service which helps you to grow and develop your dental practice. This service drives value by improving patient acceptance and allowing access to digital dentistry without the worry of additional financial investment. Improve 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 and what steps you keep in house. We help you to scale your business – no matter where you are in your practice growth plans.





# 12. PRODUCT REFERENCE LIST

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



## 12.1 BLC IMPLANTS SLACTIVE®








Art. No.	Image	Article	Dimensions	Material
035.9008S		Straumann® BLC Implant	Ø 3.3 mm RB, SLActive® 8 mm	Roxidol®
035.9010S			Ø 3.3 mm RB, SLActive® 10 mm	
035.9012S			Ø 3.3 mm RB, SLActive® 12 mm	
035.9014S			Ø 3.3 mm RB, SLActive® 14 mm	
035.9016S			Ø 3.3 mm RB, SLActive® 16 mm	
035.9018S			Ø 3.3 mm RB, SLActive® 18 mm	
035.9206S		Straumann® BLC Implant	Ø 3.75 mm RB, SLActive® 6 mm	Roxidol®
035.9208S			Ø 3.75 mm RB, SLActive® 8 mm	
035.9210S			Ø 3.75 mm RB, SLActive® 10 mm	
035.9212S			Ø 3.75 mm RB, SLActive® 12 mm	
035.9214S			Ø 3.75 mm RB, SLActive® 14 mm	
035.9216S			Ø 3.75 mm RB, SLActive® 16 mm	
035.9218S	Ø 3.75 mm RB, SLActive® 18 mm			
035.9406S		Straumann® BLC Implant	Ø 4.5 mm WB, SLActive® 6 mm	Roxidol®
035.9408S			Ø 4.5 mm WB, SLActive® 8 mm	
035.9410S			Ø 4.5 mm WB, SLActive® 10 mm	
035.9412S			Ø 4.5 mm WB, SLActive® 12 mm	
035.9414S			Ø 4.5 mm WB, SLActive® 14 mm	
035.9416S			Ø 4.5 mm WB, SLActive® 16 mm	
035.9418S	Ø 4.5 mm WB, SLActive® 18 mm			
035.9706S		Straumann® BLC Implant	Ø 5.5 mm WB, SLActive® 6 mm	Roxidol®
035.9708S			Ø 5.5 mm WB, SLActive® 8 mm	
035.9710S			Ø 5.5 mm WB, SLActive® 10 mm	
035.9712S			Ø 5.5 mm WB, SLActive® 12 mm	
035.9714S			Ø 5.5 mm WB, SLActive® 14 mm	
035.9716S			Ø 5.5 mm WB, SLActive® 16 mm	
035.9806S		Straumann® BLC Implant	Ø 6.5 mm WB, SLActive® 6 mm	Roxidol®
035.9808S			Ø 6.5 mm WB, SLActive® 8 mm	
035.9810S			Ø 6.5 mm WB, SLActive® 10 mm	
035.9812S			Ø 6.5 mm WB, SLActive® 12 mm	
035.9814S			Ø 6.5 mm WB, SLActive® 14 mm	
035.9816S			Ø 6.5 mm WB, SLActive® 16 mm	

## 12.2 CLOSURE CAPS



Art. No.	Image	Article	Dimensions	Material
064.4100S		RB Closure Cap	0.4 mm	Ti
064.8102S		WB Closure Cap	0.5 mm	

## 12.3 HEALING ABUTMENTS FOR CROWN










Art. No.	Image	Article	Description	Material
064.4202S		RB/WB Healing Abutment, for final abutments, Ø 3.8 mm	Crown, Ø 4 mm, gingiva height 1.5 mm, abutment height 2 mm, (total 3.5 mm)	Ti
064.4203S			Crown, Ø 4 mm, gingiva height 1.5 mm, abutment height 4 mm, (total 5.5 mm)	
064.4204S			Crown, Ø 4 mm, gingiva height 2.5 mm, abutment height 2 mm, (total 4.5 mm)	
064.4205S			Crown, Ø 4 mm, gingiva height 2.5 mm, abutment height 4 mm, (total 6.5 mm)	
064.4206S			Crown, Ø 4 mm, gingiva height 3.5 mm, abutment height 2 mm, (total 5.5 mm)	
064.4207S			Crown, Ø 4 mm, gingiva height 3.5 mm, abutment height 4 mm, (total 7.5 mm)	
064.4212S		RB/WB Healing Abutment, for final abutments, Ø 4.5 mm	Crown, Ø 5 mm, gingiva height 1.5 mm, abutment height 2 mm, (total 3.5 mm)	
064.4213S			Crown, Ø 5 mm, gingiva height 1.5 mm, abutment height 4 mm, (total 5.5 mm)	
064.4214S			Crown, Ø 5 mm, gingiva height 2.5 mm, abutment height 2 mm, (total 4.5 mm)	
064.4215S			Crown, Ø 5 mm, gingiva height 2.5 mm, abutment height 4 mm, (total 6.5 mm)	
064.4216S			Crown, Ø 5 mm, gingiva height 3.5 mm, abutment height 2 mm, (total 5.5 mm)	
064.4217S			Crown, Ø 5 mm, gingiva height 3.5 mm, abutment height 4 mm, (total 7.5 mm)	
064.4222S		RB/WB Healing Abutment, for final abutments, Ø 6.0 mm	Crown, Ø 6.5 mm, gingiva height 1.5 mm, abutment height 2 mm, (total 3.5 mm)	
064.4223S			Crown, Ø 6.5 mm, gingiva height 1.5 mm, abutment height 4 mm, (total 5.5 mm)	
064.4224S			Crown, Ø 6.5 mm, gingiva height 2.5 mm, abutment height 2 mm, (total 4.5 mm)	
064.4225S			Crown, Ø 6.5 mm, gingiva height 2.5 mm, abutment height 4 mm, (total 6.5 mm)	
064.4226S			Crown, Ø 6.5 mm, gingiva height 3.5 mm, abutment height 2 mm, (total 5.5 mm)	
064.4227S			Crown, Ø 6.5 mm, gingiva height 3.5 mm, abutment height 4 mm, (total 7.5 mm)	
064.4234S			Crown, Ø 7.5 mm, gingiva height 2.5 mm, abutment height 2 mm, (total 4.5 mm)	
064.4235S			Crown, Ø 7.5 mm, gingiva height 2.5 mm, abutment height 4 mm, (total 6.5 mm)	
064.4236S			Crown, Ø 7.5 mm, gingiva height 3.5 mm, abutment height 2 mm, (total 5.5 mm)	
064.4237S			Crown, Ø 7.5 mm, gingiva height 3.5 mm, abutment height 4 mm, (total 7.5 mm)	

Art. No.	Image	Article	Description	Material
064.8201S		WB Healing Abutment, for final abutments Ø 4.5 mm	Ø 6 mm, gingiva height 0.75 mm, abutment height 2 mm, (total 2.75 mm)	Ti
064.8202S			Ø 6 mm, gingiva height 0.75 mm, abutment height 4 mm, (total 4.75 mm)	
064.8212S			Ø 6 mm, gingiva height 1.5 mm, abutment height 2 mm, (total 3.5 mm)	
064.8213S			Ø 6 mm, gingiva height 1.5 mm, abutment height 4 mm, (total 5.5 mm)	
064.8203S			Ø 7.5 mm, gingiva height 0.75 mm, abutment height 2 mm, (total 2.75 mm)	
064.8204S			Ø 7.5 mm, gingiva height 0.75 mm, abutment height 4 mm, (total 4.75 mm)	
064.8214S			Ø 7.5 mm, gingiva height 1.5 mm, abutment height 2 mm, (total 3.5 mm)	
064.8215S			Ø 7.5 mm, gingiva height 1.5 mm, abutment height 4 mm, (total 5.5 mm)	



## 12.4 HEALING ABUTMENTS FOR BRIDGE

Art. No.	Image	Article	Description	Material
064.4232S		RB/WB Healing Abutment, for final abutments, Ø 4.5 mm	Bridge/Bar, Ø 5 mm, gingiva height 1.5 mm, abutment height 2 mm, (total 3.5 mm)	Ti
064.4233S			Bridge/Bar, Ø 5 mm, gingiva height 1.5 mm, abutment height 4 mm, (total 5.5 mm)	


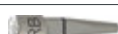


## 12.5 IMPRESSION POSTS

Art. No.	Image	Article	Description	Material
065.0031		RB Impression Post Open Tray	short, with guide screw, length 16.5 mm	TAN
065.0033			long, with guide screw, length 24 mm	
065.4310		RB Impression Post Closed Tray	with guide screw, length 13 mm	
065.0146		RB Impression Post Open Tray	short, with guide screw, length 16.5 mm, non-engaging	
065.0148			long, with guide screw, length 24 mm, non-engaging	
065.0150		RB Impression Post Closed Tray	with guide screw, length 13 mm, non-engaging	
065.0032		WB Impression Post Open Tray	short, with guide screw, length 16.5 mm	
065.0034			long, with guide screw, length 24 mm	
065.4810		WB Impression Post Closed Tray	with guide screw, length 13 mm	






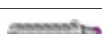








## 12.6 ANALOGS








Art. No.	Image	Article	Description	Material
065.0021		RB Implant Analog	length 12 mm	TAN
065.0022		WB Implant Analog	length 12 mm	

## 12.7 DIGITAL IMPRESSION




Art. No.	Image	Article	Description	Material
065.0103		RB/WB Metal Scanbody	Ø 4.0 mm, height 13 mm	Stainless steel
065.0023		RB Repositionable Implant Analog	for fully digital workflow, length 17 mm	Stainless steel
065.0038		ScanPost S RB/WB L	for Dentsply® Sirona®, size L	TAN
065.0024		WB Repositionable Implant Analog	for fully digital workflow, length 17 mm	Stainless steel

## 12.8 TEMPORARY ABUTMENTS





Art. No.	Image	Article	Description	Material
<b>VITA CAD-Temp®</b>				
064.4361		RB/WB Temporary Abutment	Ø 3.8 mm, gingiva height 1.5 mm	PMMA/TAN
064.4371			Ø 4.5 mm, gingiva height 1.5 mm	
<b>Temporary Abutments</b>				
064.4362		RB/WB Temporary Abutment	for crowns, Ø 3.8 mm, gingiva height 1.5 mm	TAN
064.4363			for crowns, Ø 3.8 mm, gingiva height 2.5 mm	
064.4364			for crowns, Ø 3.8 mm, gingiva height 3.5 mm	
064.4372			for crowns, Ø 4.5 mm, gingiva height 1.5 mm	
064.4373			for crowns, Ø 4.5 mm, gingiva height 2.5 mm	
064.4374			for crowns, Ø 4.5 mm, gingiva height 3.5 mm	
064.4382			for crowns, Ø 6 mm, gingiva height 2.5 mm	
064.4383			for crowns, Ø 6 mm, gingiva height 3.5 mm	
064.4352		RB/WB Temporary Abutment for Bridge/Bar*	for bridges, Ø 4.5 mm, gingiva height 1.5 mm, abutment height 10 mm	
<b>VITA CAD-Temp®</b>				
064.4390		WB Temporary Abutment	Ø 5.5 mm, gingiva height 1.5 mm	PMMA/TAN
<b>Temporary Abutments</b>				
064.4391		WB Temporary Abutment	for crowns, Ø 5.5 mm, gingiva height 0.75 mm	TAN
064.4392			for crowns, Ø 5.5 mm, gingiva height 1.5 mm	

Art. No.	Image	Article	Description	Material
<b>Immediate Temporary Abutments</b>				
064.4322S		RB/WB Immediate Temporary Abutment	for crowns, Ø 3.8 mm, gingiva height 1.5 mm, sterile	TAN
064.4323S			for crowns, Ø 3.8 mm, gingiva height 2.5 mm, sterile	
064.4324S			for crowns, Ø 3.8 mm, gingiva height 3.5 mm, sterile	
064.4332S			for crowns, Ø 4.5 mm, gingiva height 1.5 mm, sterile	
064.4333S			for crowns, Ø 4.5 mm, gingiva height 2.5 mm, sterile	
064.4334S			for crowns, Ø 4.5 mm, gingiva height 3.5 mm, sterile	
023.0033V2		Plastic Coping	for Immediate Temporary Abutment, packaging 2 pieces	PMMA





## 12.9 REPLACEMENT SCREWS

Art. No.	Image	Article	Description	Material
065.0036		RB/WB Basal Screw	for RB/WB Temporary Abutments, Anatomic Abutments, Variobase® for Crown, Variobase® for Bridge/Bar Cylindrical, angled Screw-retained Abutments, Pre-milled Abutment Blanks, Gold Abutments, and angled Novaloc® Abutments, length 6.1 mm	TAN
065.0037		RB/WB Basal Screw AS	for RB/WB Variobase® Crown AS, length 6.5 mm, only compatible with AS Screwdriver (green color-coding)	
023.4763		Occlusal Screw	for Titanium, Gold, Burn-Out and Variobase® Copings for Screw-retained Abutments, length 3.7 mm	












## 12.10 ANATOMIC ABUTMENTS

Art. No.	Image	Article	Description	Material
062.4103		RB/WB Anatomic Abutment	straight, gingiva height 2.5 mm	TAN
062.4104			straight, gingiva height 3.5 mm	
062.4153			angled, angulation 17°, gingiva height 2.5 mm	
062.4154			angled, angulation 17°, gingiva height 3.5 mm	





## 12.11 GOLD ABUTMENTS

Art. No.	Image	Article	Description	Material
062.4410		RB/WB Gold Abutment	for crowns, including screw 065.0036, gingiva height 1.5 mm, Ø 3.8 mm	Ceramicor®/POM
062.4420			for crowns, including screw 065.0036, gingiva height 1.5 mm, Ø 4.5 mm	
062.4430		RB/WB Gold Abutment for Bridge/Bar*	for bridges, including screw 065.0036, gingiva height 1.5 mm, Ø 4.5 mm	
062.8410		WB Gold Abutment	for crowns, including screw 065.0036, Ø 5.5 mm, gingiva height 1.5 mm	




## 12.12 VARIOBASE® FOR CROWN

Art. No.	Image	Article	Description	Material
062.4934		RB/WB Variobase® for Crown	including screw, Ø 3.8 mm, gingiva height 1.5 mm, abutment height 5.5 mm	TAN
062.4935			including screw, Ø 3.8 mm, gingiva height 2.5 mm, abutment height 5.5 mm	
062.4936			including screw, Ø 3.8 mm, gingiva height 3.5 mm, abutment height 5.5 mm	
062.4944			including screw, Ø 4.5 mm, gingiva height 1.5 mm, abutment height 5.5 mm	
062.4945			including screw, Ø 4.5 mm, gingiva height 2.5 mm, abutment height 5.5 mm	
062.4946			including screw, Ø 4.5 mm, gingiva height 3.5 mm, abutment height 5.5 mm	
065.0014		RB/WB Burn-out Coping	for Variobase® for Crown, Ø 3.8 mm, abutment height 5.5 mm	POM
065.0015			for Variobase® for Crown, Ø 4.5 mm, abutment height 5.5 mm	
062.4953		WB Variobase® for Crown	including screw, Ø 5.5 mm, abutment height 5.5 mm, gingiva height 0.75 mm	TAN
062.4954			including screw, Ø 5.5 mm, abutment height 5.5 mm, gingiva height 1.5 mm	
065.0016		WB Burn-out Coping	for Variobase® for Crown, Ø 5.5 mm, abutment height 5.5 mm	POM









## 12.13 VARIOBASE® FOR CROWN AS

Art. No.	Image	Article	Description	Material
062.4972		RB/WB Variobase® for Crown AS	including screw, Ø 4.5 mm, gingiva height 1.5 mm, abutment height 5.5 mm	TAN
065.0018		RB/WB Burn-out Coping	angulation 25°, for Variobase® for Crown AS, Ø 4.5 mm, abutment height 5.5 mm	POM
062.4971		WB Variobase® for Crown AS	including screw, Ø 5.5 mm, abutment height 5.5 mm, gingiva height 1.5 mm	TAN
065.0019		WB Burn-out Coping	angulation 25°, for Variobase® for Crown AS, Ø 5.5 mm, abutment height 5.5 mm	POM

## 12.14 VARIOBASE® FOR BRIDGE/BAR CYLINDRICAL











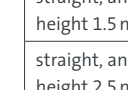
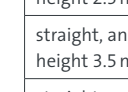
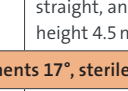






Art. No.	Image	Article	Description	Material
062.4961		RB/WB Variobase® for Bridge/Bar Cylindrical *	including screw and Cementation Aid 3, Ø 4.5 mm, gingiva height 1.5 mm, abutment height 3.5 mm	TAN
065.0017		RB/WB Burn-out Coping for Bridge/Bar	for Variobase® for Bridge/Bar, Ø 4.5 mm, abutment height 3.5 mm	POM
065.0017V4			for Variobase® for Bridge/Bar, Ø 4.5 mm, abutment height 3.5 mm, packaging 4 pieces	




















## 12.15 VARIOBASE® C






Art. No.	Image	Article	Description	Material
062.4981		RB/WB Variobase® C	for Dentsply® Sirona®, including screw 065.0036, Ø 3.8 mm, gingiva height 1.5 mm	TAN
062.5028			for Dentsply® Sirona®, including screw 065.0036, Ø 3.8 mm, gingiva height 2.5 mm	
062.5029			for Dentsply® Sirona®, including screw 065.0036, Ø 3.8 mm, gingiva height 3.5 mm	
062.4982			for Dentsply® Sirona®, including screw 065.0036, Ø 4.5 mm, gingiva height 1.5 mm	
062.5030			for Dentsply® Sirona®, including screw 065.0036, Ø 4.5 mm, gingiva height 2.5 mm	
062.5031			for Dentsply® Sirona®, including screw 065.0036, Ø 4.5 mm, gingiva height 3.5 mm	
062.5032		WB Variobase® C	for Dentsply® Sirona®, including screw 065.0036, Ø 5.5 mm, gingiva height 0.75 mm	TAN
062.4983			for Dentsply® Sirona®, including screw 065.0036, Ø 5.5 mm, gingiva height 1.5 mm	









## 12.16 SCREW-RETAINED ABUTMENTS

Art. No.	Image	Article	Description	Material
062.4722S		RB/WB Screw-retained Abutment	straight, angulation 0°, Ø4.6 mm, gingiva height 1.5 mm, sterile	TAN
062.4723S			straight, angulation 0°, Ø4.6 mm, gingiva height 2.5 mm, sterile	
062.4724S			straight, angulation 0°, Ø4.6 mm, gingiva height 3.5 mm, sterile	
062.4725S			straight, angulation 0°, Ø4.6 mm, gingiva height 4.5 mm, sterile	
<b>Screw-retained Abutments 17°, sterile</b>				
062.4733S		RB/WB Screw-retained Abutment	angled, angulation 17°, Ø4.6 mm, gingiva height 3.5 mm, sterile	TAN
062.4734S			angled, angulation 17°, Ø4.6 mm, gingiva height 4.5 mm, sterile	
062.4735S			angled, angulation 17°, Ø4.6 mm, gingiva height 5.5 mm, sterile	
<b>Screw-retained Abutments 30°, sterile</b>				
062.4743S		RB/WB Screw-retained Abutment	angled, angulation 30°, Ø4.6 mm, gingiva height 3.5 mm, sterile	TAN
062.4744S			angled, angulation 30°, Ø4.6 mm, gingiva height 4.5 mm, sterile	
062.4745S			angled, angulation 30°, Ø4.6 mm, gingiva height 5.5 mm, sterile	
<b>Plan Abutment for Screw-retained Abutments</b>				
025.0073V4		RB/WB Plan Abutment	for Screw-retained Abutments, angulation 0°, gingiva height 1.5/2.5/3.5/4.5 mm	POM
025.0074V4			for Screw-retained Abutments, angulation 17°, gingiva height 3.5/4.5/5.5 mm	
025.0075V4			for Screw-retained Abutments, angulation 30°, gingiva height 3.5/4.5/5.5 mm	
<b>Impression Posts (at abutment level) for Single Crown Restoration (engaging)</b>				
025.2244		Impression Posts for Open-tray Impression	for Screw-retained Abutments, abutment level, Ø4.6 mm	TAN
025.2246		Impression Posts for Closed-tray Impression		TAN/POM
<b>Impression Posts (at abutment level) for Multi-Unit Restorations (non engaging)</b>				
025.0012		Impression Posts for Open-tray Impression	for Screw-retained Abutments, abutment level, Ø4.6 mm	TAN
025.0014		Impression Posts for Closed-tray Impression		TAN/POM
<b>Digital Impression</b>				
025.0081		Scanbody for Screw-retained Abutment	for Screw-retained Abutments, abutment level, including Fixation Screw, Ø4.6 mm	Stainless steel
025.0008		Repositionable Analog	for Screw-retained Abutments, Ø4.6 mm	


















Art. No.	Image	Article	Description	Material
<b>Analogs</b>				
023.4756		Analog for Screw-retained Abutments Ø4.6 mm	for Screw-retained Abutments Ø4.6 mm, straight	TAN
025.0050			for Screw-retained Abutments Ø4.6 mm, edentulous, straight	
023.4757			for Screw-retained Abutments Ø4.6 mm, angled, angulation 17°/30°	
<b>Lab Auxiliaries</b>				
025.0005		Polishing Aid	for Screw-retained Abutments, Ø4.6 mm	TAN
025.0005V4			packaging 4 pieces	
025.0006		Lab Processing Screw	for Screw-retained Abutments, length 20 mm	Stainless steel
025.0052			for Screw-retained Abutments, length 10 mm	
<b>Protective Caps</b>				
024.4323-04		Protective Cap for Screw-retained Abutments Ø4.6 mm	for Screw-retained Abutments Ø4.6 mm, including screw 023.4763, height 5.1 mm, Ø5.0 mm, packaging 4 pieces	PEEK/TAN
024.4324-04			for Screw-retained Abutments Ø4.6 mm, including screw 023.4763, height 6.6 mm, Ø5.0 mm, packaging 4 pieces	
024.4325-04			for Screw-retained Abutments Ø4.6 mm, including screw 023.4763, height 8.1 mm, Ø5.0 mm, packaging 4 pieces	
024.0020-04			for Screw-retained Abutments Ø4.6 mm, including screw 023.4763, height 4.5 mm, wide, packaging 4 pieces	
<b>Auxiliary Parts</b>				
026.0016		Straumann® Planning Guide	visual guide for tilted implant placement in Straumann® Pro Arch cases	TAV/Ti
025.0009		Transfer And Alignment Pin	for Screw-retained Abutments	TAN
046.421		Hexagonal Screwdriver	for Straumann® Planning Guide, length 30 mm	Stainless steel
<b>Variobase® Copings</b>				
023.0028		Variobase® for Bridge/Bar Cylindrical Coping for Screw-retained Abutments Ø4.6 mm	for Screw-retained Abutments Ø4.6 mm, including screw 023.4763 and Cementation Aid 3, Ø5.1 mm, height 4 mm	TAN
023.0032		Burn-out Coping	for Variobase® for Bridge/Bar Cylindrical, Coping Screw-retained Abutment Ø4.6 mm, Ø5.1 mm, height 11.1 mm	POM
023.0032V4			packaging 4 pieces	
<b>Titanium Copings</b>				
023.4747		Coping for Screw-retained Abutments Ø4.6 mm	for Screw-retained Abutments Ø4.6 mm, for crowns, including screw 023.4763, height 11 mm	Ti
023.4751			for Screw-retained Abutments Ø4.6 mm, for bridges, including screw 023.4763, height 11 mm	
024.0023		Temporary Coping for Screw- retained Abutments Ø4.6 mm	for Screw-retained Abutments Ø4.6 mm, for crowns, including screw 023.4763, height 11.5 mm	TAN
024.0024			for Screw-retained Abutments Ø4.6 mm, for bridges, including screw 023.4763, height 11.5 mm	

















Art. No.	Image	Article	Description	Material
<b>Gold Copings</b>				
023.4753		Coping for Screw-retained Abutments	for Screw-retained Abutments Ø 4.6 mm, for crowns, including screw 023.4763, alloy weight 0.440 g	Ceramicor®/POM
023.4754			for Screw-retained Abutments Ø 4.6 mm, for bridges, including screw 023.4763, alloy weight 0.469 g	
<b>Bar Gold Coping Ø 4.6 mm</b>				
023.4755		Coping for Screw-retained Abutments	for Screw-retained Abutments Ø 4.6 mm, for bars, including screw 023.4763, alloy weight 0.744 g, height 5.5 mm	Ceramicor®
<b>Bar Titanium Coping Ø 4.6 mm</b>				
023.4752		Coping for Screw-retained Abutments	for Screw-retained Abutments Ø 4.6 mm, including screw 023.4763, height 5.5 mm	Ti
<b>Bar Burn-out Coping for Ø 4.6 mm</b>				
023.4758		Burn-out Coping for Screw-retained Abutments	for Screw-retained Abutments Ø 4.6 mm, for bridges and bars, including screw 023.4763, height 11 mm	POM

## 12.17 PRE-MILLED ABUTMENT BLANKS

Art. No.	Image	Article	Description	Material
062.4601		RB/WB Pre-milled Abutment Blank	for Medentika Holder, Ø 11.5 mm	TAN
062.4602			for Medentika Holder, Ø 15.8 mm	
062.4603			for M-Series, Ø 12 mm	
062.4605		WB Pre-milled Abutment Blank	for Medentika Holder, Ø 11.5 mm	
062.4606			for Medentika Holder, Ø 15.8 mm	
062.4607			for M-Series, Ø 12 mm	

## 12.18 NOVALOC® ABUTMENTS








Art. No.	Image	Article	Description	Material
<b>Novaloc® Abutments 0°</b>				
062.4501		RB/WB Novaloc®	straight, angulation 0°, Ø 3.8 mm, gingiva height 1.5 mm	TAV/ADLC
062.4502			straight, angulation 0°, Ø 3.8 mm, gingiva height 2.5 mm	
062.4503			straight, angulation 0°, Ø 3.8 mm, gingiva height 3.5 mm	
062.4504			straight, angulation 0°, Ø 3.8 mm, gingiva height 4.5 mm	
062.4505			straight, angulation 0°, Ø 3.8 mm, gingiva height 5.5 mm	
062.4506			straight, angulation 0°, Ø 3.8 mm, gingiva height 6.5 mm	
<b>Novaloc® Abutments 15°</b>				
062.4507		RB/WB Novaloc®	angled, angulation 15°, Ø 3.8 mm, gingiva height 2.5 mm	TAV/ADLC
062.4508			angled, angulation 15°, Ø 3.8 mm, gingiva height 3.5 mm	
062.4509			angled, angulation 15°, Ø 3.8 mm, gingiva height 4.5 mm	
062.4510			angled, angulation 15°, Ø 3.8 mm, gingiva height 5.5 mm	
062.4511			angled, angulation 15°, Ø 3.8 mm, gingiva height 6.5 mm	
062.4512			angled, angulation 15°, Ø 3.8 mm, gingiva height 7.5 mm	
<b>Impression-taking/Master Cast Fabrication</b>				
2010.722-NOV		Novaloc® Impression Coping	red, packaging 4 pieces	PEEK
2010.721-NOV		Novaloc® Model Analog	blue, packaging 4 pieces	Al
2010.720-NOV			red, angled, angulation 15°, packaging 4 pieces	
<b>Processing Packages</b>				
2010.601-NOV		Novaloc® Processing Package Titanium	includes: 2010.701-NOV Matrix Housing, titanium (including Processing Insert), 2 pieces 2010.711-NOV Retention Insert, white (light), 2 pieces 2010.712-NOV Retention Insert, yellow (medium), 2 pieces 2010.713-NOV Retention Insert, green (strong), 2 pieces 2010.724-NOV Processing Collar, silicone, 2 pieces	Ti/POM/PEEK/ Silicone
2010.611-NOV		Novaloc® Processing Package PEEK	includes: 2010.702-NOV Matrix Housing, PEEK (including Processing Insert), 2 pieces 2010.711-NOV Retention Insert, white (light), 2 pieces 2010.712-NOV Retention Insert, yellow (medium), 2 pieces 2010.713-NOV Retention Insert, green (strong), 2 pieces 2010.724-NOV Processing Collar, silicone, 2 pieces	PEEK/POM/ Silicone

Art. No.	Image	Article	Description	Material
<b>Retention Inserts</b>				
2010.710-NOV		Novaloc® Retention Insert	red, extra-light, approx. 300 g, packaging 4 pieces	PEEK
2010.711-NOV			white, light, approx. 750 g, packaging 4 pieces	
2010.712-NOV			yellow, medium, approx. 1200 g, packaging 4 pieces	
2010.713-NOV			green, strong, approx. 1650 g, packaging 4 pieces	
2010.714-NOV			blue, extra-strong, approx. 2050 g, packaging 4 pieces	
2010.715-NOV			black, ultra-strong, approx. 2450 g, packaging 4 pieces	
<b>Matrix Housings</b>				
2010.701-NOV		Novaloc® Matrix Housing, Titanium	including Processing Insert, packaging 4 pieces	Ti/POM
2010.702-NOV		Novaloc® Matrix Housing, PEEK		PEEK/POM
2010.703-NOV		Novaloc® Matrix Housing, Extended		Ti/POM
<b>Tools and Auxiliary Parts</b>				
2010.101-NOV		Novaloc® Equipment Box	including 3 Instruments: 2010.731-NOV Novaloc® Processing Insert Removal Instrument (blue), 2010.741-NOV Novaloc® Retention Insert Instrument (brown), 2010.751-NOV Novaloc® Matrix Housing Extraction Instrument (gray)	
2010.723-NOV		Novaloc® Block Out Spacer	white, packaging 4 pieces	POM
2010.724-NOV		Novaloc® Processing Collar	white, packaging 10 pieces	Silicone
2010.725-NOV		Novaloc® Processing Insert	white, packaging 4 pieces	POM
2010.731-NOV		Novaloc® Processing Insert Removal Instrument	blue	Al/Stainless steel
2010.741-NOV		Novaloc® Retention Insert Instrument	brown	
2010.751-NOV		Novaloc® Matrix Housing Extraction Instrument	gray	

## 12.19 INSTRUMENTS

































### 12.19.1 A Module – Order list





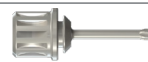

Art. No.	Image	Product
041.761		Straumann® Modular Cassette, A Module
041.766		A Module Ratchet Tray
046.119		Ratchet
066.1100		Torque Control Device
046.064		Holding Key
041.764		Grommet Tray, 3 small + 3 large
046.400		SCS Screwdriver for Ratchet, extra-short
046.401		SCS Screwdriver for Ratchet, short
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

Art. No.	Image	Product
026.0022		BL Bone Profiler 1, length 23 mm, Ø5.2 mm
026.0023		BL Bone Profiler 2, length 23 mm, Ø6.6 mm
026.0024		BL Bone Profiler 3,
066.00255		BLX/BLC Guiding Cylinder for Bone Profiler, length 10.8 mm, Ø2.9 mm
065.0007		RB/WB abutment- removal screw
065.0008		Removal Tool for RB/WB Basal Screw, left-hand, length 27 mm
065.0009		Removal Tool for RB/WB Basal Screw, left-hand, length 21 mm

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

### 12.19.2 B Module for free hand surgery – Order list

Art. No.	Image	Product
041.776		Straumann® Modular Cassette, B Module, Base + Lid
041.787		B Module, TorcFit™ BLC/TLC/BLX/TLX Tray
041.785		B Module, TorcFit™ BLC/TLC Tray (for implant up to Ø 4,5mm)
044.003		Roundburr, Ø 2.3 mm, stainless steel.
044.004		Roundburr, Ø 3.1 mm, stainless steel.
026.0056		Needle Drill, long, Ø 1.6 mm, L 41mm, stainless steel
066.1501		X Pilot VeloDrill™, guided, Ø 2.2 mm, medium, stainless steel
066.1502		X VeloDrill™, guided, Ø 2.8 mm, medium, stainless steel
066.1503		X VeloDrill™, guided, Ø 3.2 mm, medium, stainless steel
066.1504		X VeloDrill™, guided, Ø 3.5 mm, medium, stainless steel
066.1505		X VeloDrill™, guided, Ø 3.7 mm, medium, stainless steel
066.1506		X VeloDrill™, guided, Ø 4.2 mm, medium, stainless steel
066.1507		X VeloDrill™, guided, Ø 4.7 mm, medium, stainless steel
066.1508		X VeloDrill™, guided, Ø 5.2 mm, medium, stainless steel
066.1509		X VeloDrill™, guided, Ø 6.2 mm, medium, stainless steel
034.362		BLC/TLC Profile Drill, short, FIBA compatible, Ø 3.3 mm, L 27 mm, stainless steel
034.363		BLC/TLC Profile Drill, short, FIBA compatible, Ø 3.75 mm, L 26 mm, stainless steel
034.365		BLC/TLC Profile Drill, short, FIBA compatible, Ø 4.5 mm, L 26 mm, stainless steel
034.366		BLC/TLC Profile Drill, short, Ø 5.5 mm, L 26 mm, stainless steel
034.367		BLC/TLC Profile Drill, short, Ø 6.5 mm, L 26 mm, stainless steel
046.799		Alignment Pin, Ø 2.2 mm, L 27 mm, TAN
046.800		Depth Gauge, Ø 2.8 mm, L 27 mm, TAN
046.801		Depth Gauge, Ø 3.2 mm, L 27 mm, TAN
046.802		Depth Gauge, Ø 3.5 mm, L 27 mm, TAN
046.803		Depth Gauge, Ø 3.7 mm, L 27 mm, TAN
046.804		Depth Gauge, Ø 4.2 mm, L 27 mm, TAN
046.805		Depth Gauge, Ø 4.7 mm, L 27 mm, TAN
046.806		Depth Gauge, Ø 5.2 mm, L 27 mm, TAN
046.807		Depth Gauge, Ø 6.2 mm, L 27 mm, TAN
066.4201		TorcFit™ Implant Driver for ratchet, short, L 21 mm, stainless steel
066.4207		TorcFit™ Implant Driver for ratchet, medium, L 26 mm, stainless steel
066.4202		TorcFit™ Implant Driver for ratchet, long, L 31 mm, stainless steel


















Art. No.	Image	Product
066.4101		TorcFit™ Implant Driver for handpiece, short, L 21 mm, stainless steel
066.4107		TorcFit™ Implant Driver for handpiece, medium, L 26 mm, stainless steel
066.4102		TorcFit™ Implant Driver for handpiece, long, L 31 mm, stainless steel
040.563		Drill Extender*, L 23 mm, stainless steel
046.401		SCS Screwdriver, for ratchet, short, L 21 mm, stainless steel
046.411		SCS Screwdriver for handpiece, short, L 26 mm, stainless steel

\* The drill extender can be used to extend the drill in length by 14.5 mm.

**Note:** The VeloDrills™ exist also in short (for 4-12 mm) implants and long (for 4-18 mm implants). According to the typical implant length placed, the tray can be set up with the preferred VeloDrill™ length.

For guided surgery instruments, please check *Selection Guide Modular Cassette (702824/en)*.
















### 12.19.3 B Module for guided surgery – Order list

Art. No.	Image	Product
041.776		Straumann® Modular Cassette, B Module, Base + Lid
041.788		B Module TorcFit™ BLC/TLC/BLX/TLX Tray
034.010		Mucosa Punch, Ø 3.4 mm
034.011		Mucosa Punch, Ø 4.0 mm
034.012		Mucosa Punch, Ø 4.7 mm
034.215		Milling Cutter, Ø 2.8 mm
034.415		Milling Cutter, Ø 3.5 mm
034.615		Milling Cutter, Ø 4.2 mm
066.1301		X VeloDrill™, short, Ø 2.2 mm
066.1302		X VeloDrill™, short, Ø 2.8 mm
066.1303		X VeloDrill™, short, Ø 3.2 mm
066.1304		X VeloDrill™, short, Ø 3.5 mm
066.1305		X VeloDrill™, short, Ø 3.7 mm
066.1306		X VeloDrill™, short, Ø 4.2 mm
066.1307		X VeloDrill™, short, Ø 4.7 mm
066.1308		X VeloDrill™, short, Ø 5.2 mm
066.1309		X VeloDrill™, short, Ø 6.2 mm



Art. No.	Image	Product
066.1501		X VeloDrill™, medium, Ø2.2 mm
066.1502		X VeloDrill™, medium, Ø2.8 mm
066.1503		X VeloDrill™, medium, Ø3.2 mm
066.1504		X VeloDrill™, medium, Ø3.5 mm
066.1505		X VeloDrill™, medium, Ø3.7 mm
066.1506		X VeloDrill™, medium, Ø4.2 mm
066.1507		X VeloDrill™, medium, Ø4.7 mm
066.1508		X VeloDrill™, medium, Ø5.2 mm
066.1509		X VeloDrill™, medium, Ø6.2 mm
066.1701		X VeloDrill™, long, Ø2.2 mm
066.1702		X VeloDrill™, long, Ø2.8 mm
066.1703		X VeloDrill™, long, Ø3.2 mm
066.1704		X VeloDrill™, long, Ø3.5 mm
066.1705		X VeloDrill™, long, Ø3.7 mm
066.1706		X VeloDrill™, long, Ø4.2 mm
066.1707		X VeloDrill™, long, Ø4.7 mm
034.362		BLC/TLC Profile Drill, short, Ø3.3 mm, FIBA compatible
034.363		BLC/TLC Profile Drill, short, Ø3.75 mm, FIBA compatible
034.365		BLC/TLC Profile Drill, short, Ø4.5 mm, FIBA compatible
034.366		BLC/TLC Profile Drill, short, Ø5.5 mm, FIBA compatible
034.367		BLC/TLC Profile Drill, short, Ø6.5 mm, FIBA compatible
046.799		Alignment Pin, Ø2.2 mm
046.800		Depth Gauge, Ø2.8 mm
046.801		Depth Gauge, Ø3.2 mm
046.802		Depth Gauge, Ø3.5 mm
046.803		Depth Gauge, Ø3.7 mm
046.804		Depth Gauge, Ø4.2 mm
046.805		Depth Gauge, Ø4.7 mm
046.806		Depth Gauge, Ø5.2 mm
046.807		Depth Gauge, Ø6.2 mm
066.4404		BLC/BLX Guided implant Driver for Ratchet
066.4403		BLC/BLX Guided implant Driver for Handpiece
037.3000		TLC/TLX Guided Implant Driver for Ratchet, S
037.3001		TLC/TLX Guided Implant Driver for Handpiece, S
037.3002		TLC/TLX Guided Implant Driver for Ratchet, SP
037.3003		TLC/TLX Guided Implant Driver for Handpiece, SP

#### 12.19.4 C Module for guided surgery – Order list

Art. No.	Image	Product
041.772		Straumann® Modular Cassette, C Module, Guided surgery
026.0147		Drill handle, Ø2.2 mm, 1 mm/3 mm*
026.0148		Drill handle, Ø2.8 mm, 1 mm/3 mm*
026.0149		Drill handle, Ø3.2 mm, 1 mm/3 mm*
026.0150		Drill handle, Ø3.5 mm, 1 mm/3 mm*
026.0151		Drill handle, Ø3.7 mm, 1 mm/3 mm*
026.0152		Drill handle, Ø4.2 mm, 1 mm/3 mm*
034.284		Drill for Template Fixation Pin, Ø1.3 mm
034.282		Template Fixation Pin, Ø1.3 mm
034.298		Template Fixation Pin, Ø2.8/2.8 mm
034.285		Template Fixation Pin, Ø5/2.8 mm
034.286		Template Fixation Pin, Ø5/3.2 mm
034.287		Template Fixation Pin, Ø5/3.5 mm
034.288		Template Fixation Pin, Ø5/3.7 mm
034.289		Template Fixation Pin, Ø5/4.2 mm

\*Drill Handles compatible with metal sleeves, for the use with PEEK sleeves please use the self-locking handles with article numbers 034.291 - 034.296.

# 13. FURTHER INFORMATION

For further information please consult the following brochures:

- *Straumann® Modular Cassette, Basic Information (702527/en)*
- *Straumann® VeloDrill™ System for Guided Surgery, Basic Information (702526/en)*
- *Straumann® Drill stop, Basic Information (702874/en)*
- *Straumann® Modular Cassette Selection Guide , Basic Information (702824/en)*
- *Straumann® Bone Level Prosthetic Procedures, Basic Information (702061/en)*
- *Straumann® Variobase® Basic Information (702087/en)*
- *Straumann® Novaloc® Retentive System for Hybrid Dentures (702067/en)*
- *Straumann® CARES® Implant-borne prosthetics, Basic Information (702165/en)*
- *Straumann® CARES® Scan & Shape, Basic Information (702168/en)*
- *Step-by-step instructions on the intraoral scanbodies, Basic Information (702063/en)*

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