

# BASIC INFORMATION

Straumann® Guided Surgery System Instruments



Technical handling information

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# ABOUT THIS GUIDE This guide provides an overview of the instruments required for the Straumann® Guided Surgery Workflow and describes the steps required for guided implant bed preparation and guided placement of implants of the Straumann® Dental Implant system. 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.

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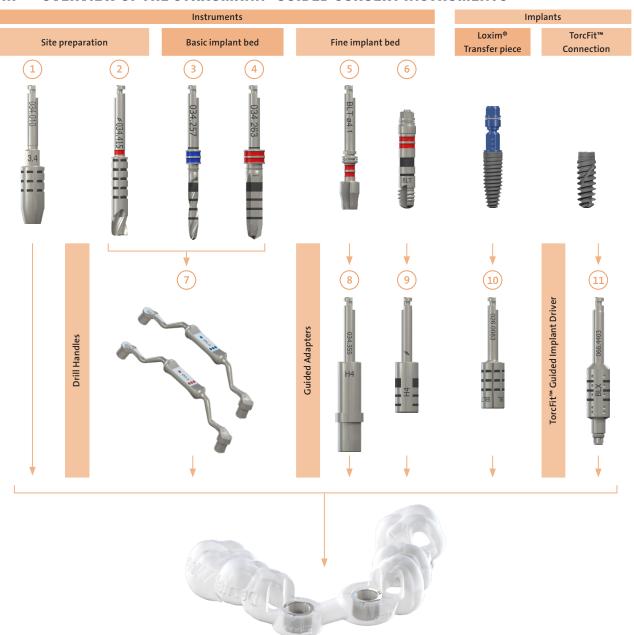
## 1. THE STRAUMANN® GUIDED SURGERY INSTRUMENTS

The Straumann® Guided Surgery instruments are used for guided implant bed preparation and guided placement of dental implants of the Straumann® Dental Implant System.

Cutting instruments for the site and implant bed preparation can be used guided either directly through the  $\varnothing$ 5.0 mm T-Sleeve of the Surgical Template (Mucosa Punch), through a Guided Drill Handle (Milling Cutter and Drills) or in conjunction with a Guided Adapter (Profile Drills and Taps).

Straumann® implants with a Loxim® Transfer piece can be placed guided with the help of a Guided Adapter, for TorcFit™ Implant a Guided Implant driver can be used.

## 1.1 OVERVIEW OF THE STRAUMANN® GUIDED SURGERY INSTRUMENTS



## **Cutting instruments:**

- Mucosa Punch (see page 22)
- 2 Milling Cutter (see page 23)
- 3 Pilot Twist Drill PRO Ø 2.2 mm (see page 24)
- 4 Drills Ø 2.8-4.2 mm (see page 24)
- Profile Drill FIBA compatible (see page 27)
- Tap FIBA compatible (see page 28)

## Guiding instruments:

- 7 Drill Handles with Guiding Cylinders (see page 20)
- 8 Guided Adapter for Profile Drill, FIBA (see page 21)
- 9 Guided Adapter for Tap, FIBA (see page 21)
- 10 Guided Adapter for the Loxim® Transfer Piece (See page 29)
- 11 TorcFit™ Guided Implant Driver (BLX/TLX) (see page 30)
- 12 Surgical Template with Ø5 mm metal Sleeve (see page 17)

## 1.2 IMPLANT BED DEPTH CONTROL

Any desired implant bed depth between 4 mm and 16 mm can be achieved by selecting a specific combination of the T-sleeve position, the Drill Handle cylinder height and the drill lengths.

## Flexible T-sleeve position

The T-sleeve can be positioned at 3 different heights, indicated as H2, H4 and H6. The indicated height represents the distance between the T-sleeve and planned final implant position (implant shoulder).

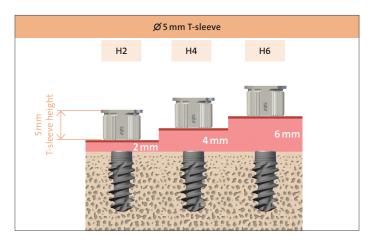
T-sleeve positioning can be determined by the following criteria:

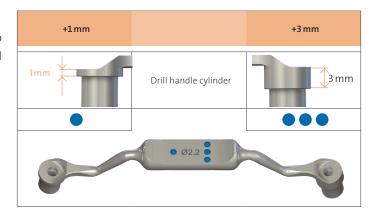
- Mucosal thickness,
- Type of Surgical Template (mucosa, bone or tooth-supported)
- · Access for instrument irrigation.

**Note:** For maximum precision, always select the lowest T-sleeve position possible; T-sleeve contact with tissue must be avoided.

## Two different cylinder heights

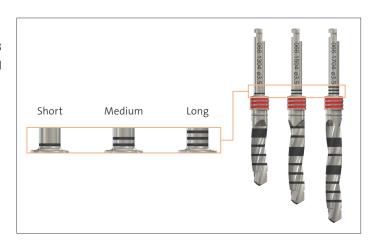
Straumann® Guided Surgery Drill Handles have two different cylinder heights (1mm and 3mm) marked on the instrument with colored dots.





## Three different drill lengths

Straumann® Guided Surgery Drills are available in 3 different lengths (short, medium and long). The drill length is indicated on the drill shaft by a laser mark.



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## 1.3 CODIAGNOSTIX® SURGICAL PROTOCOL

coDiagnostiX®, the planing and guide design software from Dental Wings GmbH, Chemnitz (Germany), calculates the surgical protocol based on the virtual planning of implant placement and choice of T-sleeve type and position. The surgical protocol recommends which Drill Handle cylinder (+1 mm or +3 mm) and which drill lengths (short, medium, or long) are required for preparing the osteotomy for each specific implant. Two different types of surgical protocols are provided by coDiagnostiX®: one for the classic Straumann® Dental Implant Systems including Tissue Level Implants, Bone Level Implants and Bone Level Tapered Implants, and the other for Straumann® BLX and TLX Implant systems, using Straumann® Velodrills™.

## 1.3.1 Straumann® Tissue Level Implants, Bone Level Implants and Bone Level Tapered Implants

Straumann® BLT	implants		Surgical protocol				FDI notation (World Dental Federation)		
Straumann® Guided Surgery Sleeve									
Position	Milling Cutter	Pilot Drill	Guided Drill	Guided Drill	Guided Drill	Profile Drill	Тар	Implant	Depth Stop
42	Ø 4.2	Ø 2.2 BLT ■	Ø 2.8 BLT D1-D4 <b>≡</b>	Ø 3.5 BLT D1-D4	Ø 4.2 BLT D1-D3 or dense cortex only	Ø 4.8 BLT D1-D2 or dense cortex only H2	Ø 4.8 BLT D1 H2	021.7316 BLT RC Ø 4.8 16 mm SLActive®	H2

Above is an example of a surgical protocol for a Straumann® BLT  $\varnothing$  4.8/16 mm on tooth position 42, with a selected T-sleeve position of H2. The recommended drills ( $\varnothing$  and color code) and the required combination of cylinder height (dots) and drill length (lines) are indicated in the table. The applicability per bone class is indicated with D1 to D4 for each step.

## 1.3.2 Straumann® BLX and TLX Implants

Straumann®	Straumann® BLX implants Surgical protocol FDI no							FDI not	ation (World Denta	al Federation)			
	Straumann® VeloDrill™ Guided Surgery												
Position	Milling Cutter	Ø2.2 X VeloDrill™	Bone density	Ø2.8 X VeloDrill™	Ø3.2 X VeloDrill™	Ø3.5 X VeloDrill™	Ø3.7 X VeloDrill™	Ø4.2 X VeloDrill™	Ø4.7 X VeloDrill™	Ø5.2 X VeloDrill™	Ø6.2 X VeloDrilI™	Implant	Depth Stop
32	Ø 3.5	<b>=</b>	soft/D4 medium/D2-D3 hard/D1	<b>=</b>		<b>=</b>	999					061.5312 BLX RB Ø 4 12 mm SLActive®	Н6

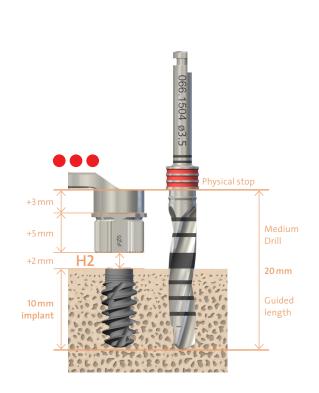
Above is an example of a surgical protocol for a Straumann® BLX  $\varnothing$  4.0/12 mm on tooth position 32, with a selected T-sleeve position at H6. The recommended drills ( $\varnothing$  and color code) and the required combination of cylinder height (dots) and drill length (lines) are indicated in the table. A "c" in the dots means that this drill step should be used for coronal widening only (see *Widen coronal bone* on page 11).

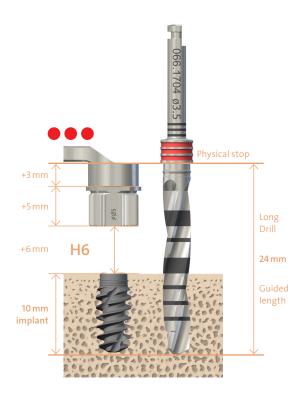
The example on the next page can be used to calculate manually the required combination of Drill Handle cylinder height and implant length in case of an intraoperative change of the implant length.

For more information please refer to https://www.codiagnostix.com.

## Example of how to achieve an implant bed depth for a 10 mm implant

For guided implant bed preparation using a 10 mm Straumann® Implant, T-sleeve position H2 and H6 can be used. The following examples show how the different components of the Straumann® Guided Surgery System fit together to achieve a 10 mm implant bed depth.





	Drill handle	
1mm	Drill handle cylinder	3 mm
		• • •

Drill name	Guided length	Overall length	Symbol for drill length
Short	16 mm	34 mm	_
Medium	20 mm	38 mm	=
Long	24 mm	42 mm	=

For more information please refer to Chapter 5. *T-sleeve position/implant length matrix* on page 34.

## 1.4 SURGICAL CASSETTE FOR GUIDED SURGERY

The Straumann® Modular Cassette is used for the secure storage and reprocessing of surgical and auxiliary instruments of the Straumann® Dental Implant System. The Straumann® Modular Cassette works with any Straumann® implant line (e.g. SP, BLT), including with the Straumann® Guided Surgery workflow.

The system consists of three modules named A, B and C.





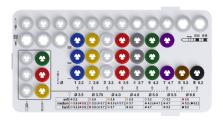


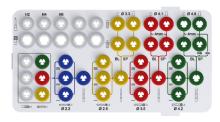
The A Module stores tools that can be shared among different implant lines. Removable trays provide dedicated spaces to store instruments.

The B Module stores tools for a specific implant line. Removable trays are dedicated to an implant line workflow.

The C Module Guided Surgery stores guided handles and instrumentation for template fixation pins. All tools are stored horizontally on the holder.

The B Module features different workflow trays that store cutting tools for specific implant lines. The B Module should be used together with an A Module to complete the tools required for implant surgery.





Straumann® BLX/TLX T Guided Fully Tapered Tray

Straumann® BLT Guided Basic Tray

Straumann® BL/TL Guided Parallel Walled Tray

Please refer to Chapter 7. Article List on page 37, to the Straumann® Modular Cassette, Basic Information (702527/en) and Straumann® Modular Cassette, Selection Guide (702824/en) for further instructions.

## Note:

The conventional, non-modular Straumann® Guided Surgery Cassette (Art. No. 034.001) and the Straumann® Basic Guided Surgery Cassette (Art no. 034.281) don't provide the adequate storage space and workflow for the new Straumann® Guided Surgery components, like the Guided Adapters FIBA, the FIBA compatible Profile Drills and Taps and the new short Drill Handles.



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## 2. SURGICAL PROCEDURE

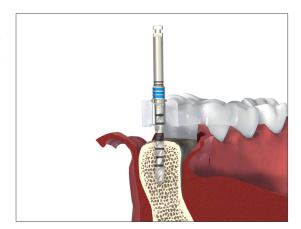
After receiving the Surgical Template from the manufacturer and prior to starting any surgical procedure, evaluate the fit and stability on the model and in the patient's mouth as well as the size and location of the openings for irrigation. Verify that the position and orientation of the T-sleeves in the Surgical Template match the preoperative plan and surgical protocol and also verify that the right Drill Handles to fit into the selected T-sleeves are available (round or self-locking).

For more information please refer to Chapter 3. *Technical information on Straumann® guided instruments* on page 16.

The Straumann® Guided Surgery workflow offers guided pilot drilling or fully guided surgery which included guided implant bed preparation and guided implant placement.

## Guided pilot drilling

For guided pilot drilling, only the  $\varnothing$  2.2 mm pilot drill is needed. The dedicated " $\varnothing$  2.2 mm T-sleeves for guided pilot drilling" allow the use of the drill without drill handles.

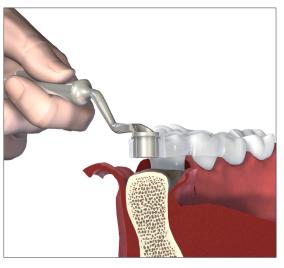


## Fully guided surgery

The Straumann®  $\varnothing$ 5.0 mm T-sleeve is used for fully guided drilling and implant placement, suiting implant diameters of between  $\varnothing$ 3.3 mm and  $\varnothing$ 4.8 mm, it is also compatible with the Straumann® Guided Surgery Drill Handles, the Guided Adapters and the Guided Implant Drivers

For implants wider than  $\emptyset$  4.8 mm, the implant bed can be predrilled up to  $\emptyset$  4.2 mm, and then the sequence can be finished freehand.

A  $\varnothing$  2.8 mm T-sleeve is also available for narrow interdental spaces, which allows guided drilling with the  $\varnothing$ 2.8 mm drills without the use of a Drill Handle.



The Surgical Template can be bone, mucosa or tooth-supported, depending on the clinician's preferences and the planning system used. A variety of fixation pins are available for additional stabilization of the Surgical Template. Refer to Chapter 3.1 *Surgical Template and guided instruments* on page 16 for detailed instructions.

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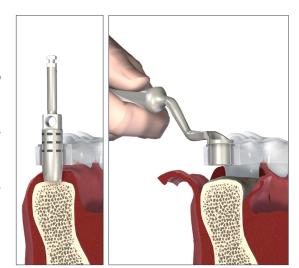
## 2.1 SITE PREPARATION

## Mucosa Punch for flapless surgery

The Mucosa Punch can be used through the  $\varnothing$  5.0 mm T-sleeves to punch through the gingiva for surgical access.

The three depth marks indicate the distance from bone level to the top of the rim of the respective T-sleeve (H2, H4, H6).

For more information please refer to Chapter 3.2.1 *Mucosa Punch* on page 22.



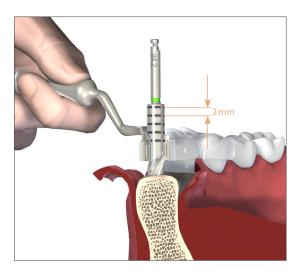
## Flattening the alveolar ridge

The Milling Cutter can be used to create a flat bone surface. Choose the Milling Cutter and corresponding Drill Handle as indicated in the surgical protocol.

Use the laser markings set at 2 mm intervals on the Milling Cutter for depth reference.

**Note:** Milling Cutters have no physical stop. Milling Cutters may only be used for flattening the alveolar ridge.

For more information please refer to Chapter 3.2.2 *Milling Cutter* on page 23.



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## 2.2 BASIC IMPLANT BED PREPARATION

For the basic implant bed preparation Straumann® guided drills are used in combination with Drill Handles to achieve the desired implant bed depth.

Always make sure to use the correct Drill Handle cylinder (+1 mm (one dot) or +3 mm (3 dots) and the corresponding drill length (short, medium, or long) as indicated in the surgical protocol.

Start drilling only after fully inserting the drill into the cylinder of the Drill Handles.

## Pilot drilling

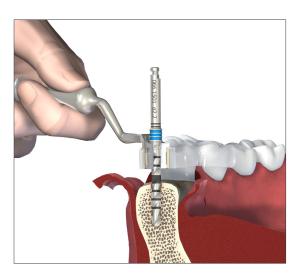
Pre-drill the implant bed at no more than 800 rpm with the  $\varnothing$  2.2 mm Pilot Twist Drill PRO using the corresponding Drill Handle (blue) for guidance. Drill until the physical stop of the guide drill reaches the Drill Handle cylinder to achieve the required osteotomy depth.

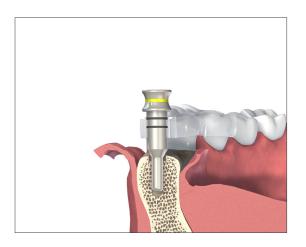
Before continuing with the implant bed preparation, determine the bone class at the implant bed site with the appropriate method.

Subsequently, follow the surgical protocol to complete the basic implant bed preparation. For further information on the surgical procedure of the Straumann® Dental Implant System, please refer to the respective Basic Information (See Chapter 6. *Related documents*)

Vertical Template Fixation Pins can then be used for further stabilization of the Surgical Template (see Chapter 3.1.3 *Vertical Template fixation Pins* on page 18).

**Note:** The widest handle is compatible with the  $\varnothing$  4.2 mm guided drill. For cases that require wider drills ( $\varnothing$  4.7, 5.2, or 6.2 mm), predrill guided to  $\varnothing$  4.2 mm, remove the template and follow the conventional workflow.





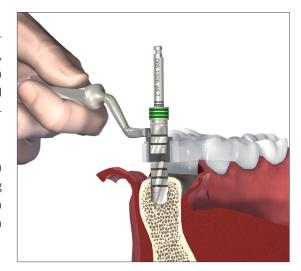
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## Widen coronal bone (for BLX and TLX implants only)

For Straumann® BLX and TLX implants, the coronal segment of medium and hard bone should be widened before implant placement, if indicated by the protocol. The drill size in brackets or marked with a "c" is used for depths of 4 mm (for implant lengths of 6 mm and 8 mm) and 6 mm (for implant lengths of 10 mm and longer) for widening the coronal segment of the implant bed.

**Note:** Avoid planning BLX and TLX implant with a length of 6 mm and 8 mm in the T-sleeve position H2, since 4 mm of guided drilling is not possible in the H2 position. If cortical widening is needed in a site with a T-sleeve in H2 position, remove the template and perform the coronal drilling using conventional procedures.



## Caution:

- Inspect the instruments for operational reliability prior to each surgery and replace if necessary. Avoid lateral pressure on instruments that may damage the instruments themselves, the handle cylinder or the T-sleeve.
- Cutting instruments must not rotate during insertion into, or removal from, T-sleeves or handles.
- Use intermittent drilling with ample cooling of cutting instruments using pre-cooled sterile physiological saline solution.

## 2.3 FINE IMPLANT BED PREPARATION

Fine implant bed preparation includes profile drilling and subsequent tapping. The procedure depends on implant type, endosteal implant diameter and bone class. Fine implant bed preparation is not needed for BLX and TLX implants.

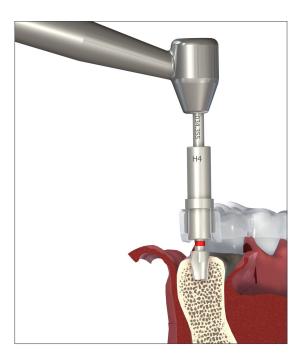
## 2.3.1 Profile drilling

Profile drilling prepares the implant bed for the shape of a specific Straumann® implant. Choose the correct Guided Adapter for profile drill (FIBA-Fine Implant Bed Adapters) according to the T-sleeve position.

Insert the assembled Adapter and profile drill into the  $\varnothing$ 5.0 mm T-sleeve. Shape the coronal part of the implant bed with the corresponding guided profile drill and the recommended speed of 300 rpm.

Always drill until the **physical stop** of the Adapter hits the T-sleeve to reach the required depth.

For more information please refer to Chapter 3.1.6 *Guided Adapter* for profile drills on page 21 and Chapter 3.2.4 *Profile Drills, FIBA compatible* on page 27.



## 2.3.2 Tapping

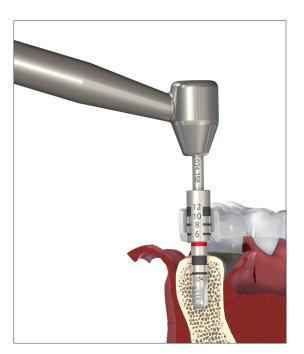
Tapping prepares the implant bed for a specific thread type. This optional step gives the surgeon the flexibility to adapt the surgical protocol to the bone class to achieve optimal primary implant stability.

Choose the correct Guided Adapter for tap (FIBA) according to T-sleeve position. Insert the assembled Adapter and tap into the  $\varnothing$  5.0 mm T-sleeve.

Tap the implant bed according to bone class and endosteal diameter. Use the laser marks on the guided taps for visual depth reference. The maximum recommended speed is 15 rpm.

**Caution:** Do not apply torque greater than 60 Ncm. Torque values above 60 Ncm may damage the tap.

For manual profile drilling and tapping with a Ratchet use the Connector for Ratchet, art. no. 034.005.



For instruction on the old guided Profil Drills and guided Taps, compatible with the C-Handles, please refer to the document *Straumann® Guided Surgery Basic Information* (702083).

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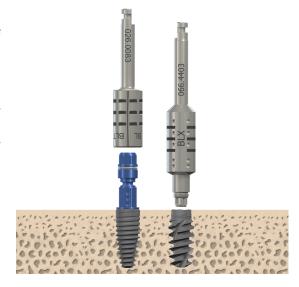
## 2.4 GUIDED IMPLANT INSERTION

Guided implant placement can be used to maximize precision. The implant can be inserted through Straumann $^{\circ}$   $\varnothing$  5.0 mm T-sleeves using either visual depth control or physical depth control with the Stop Key.

Alternatively, remove the Surgical Template and place the implant using the conventional procedure without Surgical Templates as described on the surgical procedure of the Straumann® Dental Implant System, please refer to the respective Basic Information (See Chapter 6. *Related documents*).

For Straumann® implants using a Loxim® Transfer Piece, the Straumann® Guided Adapter is used for inserting implants through Straumann® Ø 5.0 mm T-sleeve using visual depth control.

For Straumann® implants with the TorcFit™ connection (e.g. BLX, TLX), a Guided Implant Driver is used for inserting implants through the T-sleeve using either visual depth control or physical depth control with the Stop Key.



**Note:** The H4 or H6 T-sleeve position is recommended when planning to use guided Implant placement to ensure sufficient guiding contact between the Guided Adapter or the Guided Implant driver and the T-sleeve.

For further information, see Chapter 3.3 Guided implant placement on page 29.

Note: After removing the implant from the solution, the SLActive® surface treatment is chemically active for 15 minutes.

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## 2.4.1 Guided implant insertion with a Straumann® Guided Adapter (Loxim® Transfer Piece)

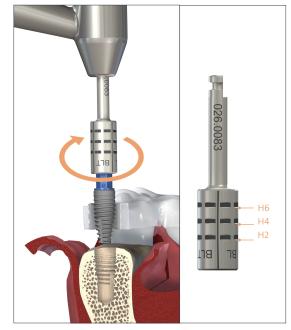
The Straumann® Guided Adapter is designed to be mounted on Straumann® implants using a Loxim® Transfer Piece. The implant can be inserted through Straumann®  $\varnothing$  5.0 mm T-sleeves using visual depth control.

### Caution.

- The Guided Adapter must be fully engaged with the Loxim® Transfer Piece to ensure depth control.
- When mounting the Guided Adapter on Straumann® Bone Level and Straumann® Bone Level Tapered Implants, ensure that the vertical lines on the Guided Adapter are aligned with the dots on the Loxim® Transfer Piece before engaging. This ensures correct prosthetic abutment orientation.

Align the cylindrical part of the Guided Adapter with the T-sleeve axis. Insert the implant with a maximum clockwise speed of 15 rpm. Use the visual depth control lines during insertion according to the planned T-sleeve position (H2, H4, H6). Note that the lower limit of each visual depth control line shows the correct insertion depth.

For all implants, if the resistance is still great, remove the implant, place the implant and implant driver back in the vial and widen the implant bed according to the drill protocol.



## Guided indexing (if applicable)

For implants with CrossFit® connection, ensure that the final implant position has the four vertical lines matching the planned implant orientation marks on the Surgical Template.

The indexing marks on the Surgical Drill Template indicate where to align the rotational marker of the insertion tool to obtain the planned position of the temporary crown, bridge, or custom healing abutment.

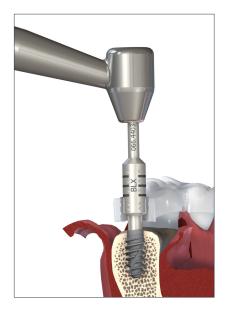


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## 2.4.2 Guided implant insertion with a Guided Implant Driver (TorcFit™ Connection)

Pick up the implant from the vial and insert at a maximum clockwise speed of 15 rpm. The final implant position is indicated by the visual stop marks according to the planned T-sleeve position (H2, H4, H6) on the implant driver.

For the screw-retained guided implant drivers, a Stop Key (art. no. 034.006) can be used for a physical stop to indicate the final implant position. Use the Stop Key with the flat side pointing towards the T-sleeve.







For BLX and TLX, if strong resistance is encountered before the implant reaches its final position, rotate the implant counterclockwise a few turns and continue to insert. Repeat this step several times if necessary.

For all implants, if the resistance is still too great, remove the implant, place the implant and implant driver back in the vial and widen the implant bed according to the drill protocol.

## Guided indexing (if applicable)

The indexing marks on the Drill Guide indicate where to align the rotational marker of the insertion tool to achieve the planned position of the prosthetic components.

Once the implant is placed, gently pull the Guided Implant Driver out vertically. For a screw-retained Guided Implant Driver, loosen the fixation screw and gently pull out vertically.



## Note:

- After removing the implant from the solution, the SLActive® surface treatment is chemically active for 15 minutes.
- With Straumann® guided instruments, increased insertion torques can occur due to precise osteotomy preparation.
- For immediate loading, a final torque of at least 35 Ncm should be achieved
- Excessive insertion torque must be avoided because this can lead to over-compression of the bone.

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# 3. TECHNICAL INFORMATION ON STRAUMANN® GUIDED INSTRUMENTS

## 3.1 SURGICAL TEMPLATE AND GUIDED INSTRUMENTS

## 3.1.1 Surgical Template

Bone, mucosa or tooth-supported Surgical Templates (see figures) can be used depending on the clinician's preferences and the planning system used.







Mucosa-supported



Tooth-supported

The Surgical Template must allow for proper irrigation of the surgical site. Windows may also be included in the Surgical Template. For a correct fit of the handle cylinder in the T-sleeve, remove additional material around the T-sleeve.

### Caution:

- Ensure the T-sleeve is firmly fixed in the Surgical Template.
- Ensure the T-sleeve is fully seated in the template, with the rim in contact with the template.
- Radial and axial loads on the T-sleeve must be avoided to help ensure proper retention of the T-sleeves in the Surgical Template.
- On receipt of the Surgical Template from the manufacturer and prior to starting any surgical procedure, evaluate its fit and stability on the model and in the patient's mouth as well as the size and location of the openings for irrigation. Verify that the position and orientation of the T-sleeve in the Surgical Template match the preoperative plan and also verify that the right Drill Handles to fit into the selected T-sleeves are available (round or self-locking). Check product documentation if provided by the Surgical Template manufacturer.

## 3.1.2 T-sleeve types

Depending on the anatomical situation and the planned axis of adjacent implants, different T-sleeve diameters are available, for maximum precision use a metal T-Sleeve.

Article	Art. No./ material		Sleeve inner diameter	Sleeve outer diameter	Sleeve height	Use of drill handle
Ø 5 mm T-sleeve	034.053V4 stainless steel	Dimin h	d = 5 mm	Dmin = 5.7 mm Dcollar = 7.0 mm Dmax = 6.3 mm	H = 5 mm h = 4.5 mm	Yes
Ø 2.8 mm T-sleeve	034.055V4 stainless steel	Deollar P P P P P P P P P P P P P P P P P P P	d = 2.8 mm	Dmin = 3.2 mm Dcollar = 4.4 mm Dmax = 3.8 mm	H = 6 mm h = 5.5 mm	No
Ø 2.2 mm T-sleeve	046.712V4 stainless steel	Dmin h	d = 2.2 mm	Dmin = 2.6 mm Dcollar = 3.8 mm Dmax = 3.2 mm	H = 6 mm h = 5.5 mm	No
Self-locking T-sle	eeve (compatible w	rith self-locking Drill Handles)	I			
Ø5mm self locking T-sleeve	034.299V4 PEEK	Dimin A H	d = 5 mm	Dmin = 6.0 mm Dcollar = 7.3 mm Dmax = 6.6 mm	H = 5 mm h = 4.5 mm	Yes

## Caution:

Make sure that for the implant surgery the right combination of sleeves and Drill handles is selected. For more information go to Chapter 3.1.5 *Drill Handle* on page 20.

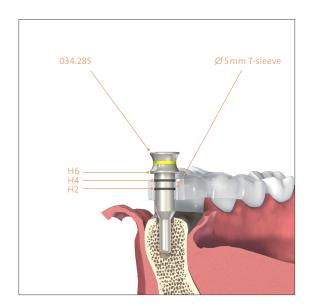
## 3.1.3 Vertical Template Fixation Pins

Vertical Template Fixation Pins can be used to stabilize the Surgical Template and prevent the cantilever effect while drilling multiple implant beds.

The pins are inserted after basic implant bed preparation is complete. A pin can be inserted into the implant bed socket to stabilize the guide before drilling the second implant site. The pin tip is designed to fit all implant types: S, SP, BL, BLT, BLX and TLX.

Article No.	Template fixation pin	Pin Diameter (mm)	Sleeve type
034.298	25.8%	Ø 2.8/2.8	Ø 2.8 mm T-sleeve 034.055V4 034.052V4
034.285	S. S	Ø 5/2.8	
034.286		Ø 5/3.2	
034.287	03.5.0 0.3.5.0	Ø5/3.5	Ø 5 mm T-sleeve 034.053V4 034.299V4 034.050V4
034.288		Ø5/3.7	
034.289	04.2%	Ø5/4.2	

Vertical Template Fixation Pins have a visual depth mark corresponding to the selected T-sleeve position.



**Caution:** In case of flapless surgery, no force may be applied onto the Template Fixation Pins to avoid damage to the soft tissue. Secure the pins against aspiration.

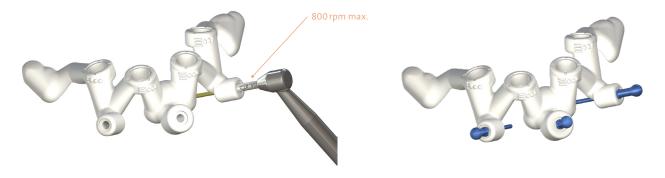
## 3.1.4 Lateral Template Fixation Pins

Lateral Template Fixation Pins can be used to stabilize the guide where there is sufficient bone of adequate quality. The number of pins must be adapted to the anatomy, type of template and position of implants.

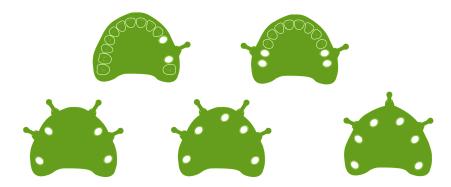
Orientation	Image	Article No.	Pin Diameter (mm)	Sleeve type
Lateral	834/2202	034.282	Ø1.3	T-sleeve for fixation pin 034.283
Lateral	034.284 ø1.3	034.284	1.3 لا	Drill for fixation pin 034.283

Article	Art. No.		Sleeve inner diameter	Sleeve outer diameter	Sleeve height	Use of drill handle
T-sleeve for Ø 1.3 mm Template Fixation Pin	034.283	Decellar P	d = 1.35 mm	Dmin = 2.2 mm Dcollar = 3.1 mm Dmax = 2.5 mm	H = 7.5 mm h = 7 mm	No

To insert the pins, a T-sleeve for Template Fixation Pin (art. no. 034.283) and Drill for Template Fixation Pin (art. no. 034.284) are used.



The number of pins must be adapted to the anatomy, type of template and position of implants. For examples of recommended positions, see figure below.



## 3.1.5 Drill Handle

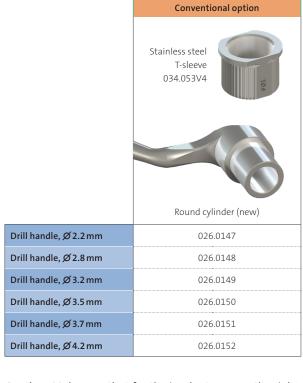
For identification during surgery, Straumann® Guided Surgery Drill Handles are color-coded and marked with symbols for the respective cylinder height (one dot for 1 mm, 3 dots for 3 mm).

Art. No.	Image	Article
026.0147	02.2	Drill handle, Ø 2.2 mm, 1 mm/3 mm
026.0148	02.8	Drill handle, Ø 2.8 mm, 1 mm/3 mm
026.0149	03.2	Drill handle, Ø 3.2 mm, 1 mm/3 mm
026.0150	03.5	Drill handle, Ø 3.5 mm, 1 mm/3 mm
026.0151	03.7	Drill handle, Ø 3.7 mm, 1 mm/3 mm
026.0152	042	Drill handle, Ø 4.2 mm, 1 mm/3 mm

The planning software calculates the surgical protocol based on the virtual planning of implant placement and choice of T-sleeve types and positions. The surgical protocol recommends which Drill Handle cylinder (+1 mm or +3 mm) and which drill length (short, medium, or long) are required for preparing the osteotomy for each specific implant.

## Self-locking Drill Handle, in combination with self-locking T-Sleeves (PEEK) only

- Drill Handles and T-Sleeves are also available in a self-locking version.
- Be aware that the self-locking Drill Handles are compatible with the self-locking sleeves only.
- The conventional Drill Handles with a round cylinder, are not compatible with the self-locking system.





Caution: Make sure that for the implant surgery the right combination of sleeves and Drill handles is selected.

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## 3.1.6 Guided Adapter for profile drills, FIBA

Guided Adapters for profile drills (FIBA – Fine Implant Bed Adapters) are designed to work with FIBA-compatible short profile drills. These FIBA-compatible profile drills can be used in freehand cases, or in guided cases when used in conjunction with a Guided Adapter.

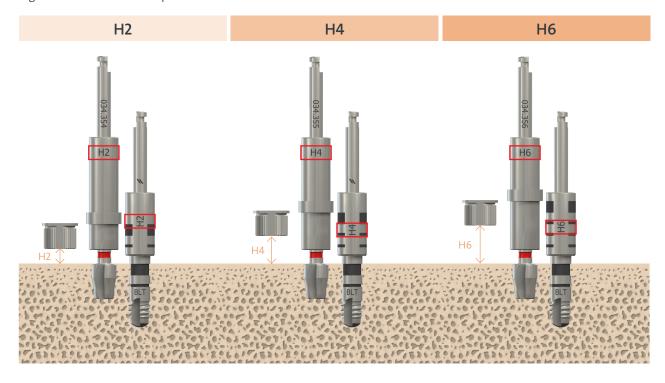
Art. No.	Picture	Article	Sleeve position
034.354	<b>(</b> ) 1 034,354	Guided Adapter for Profile Drill, FIBA, H2, handpiece, stainless steel	H2
034.355	034.355) ¥	Guided Adapter for Profile Drill, FIBA, H4, handpiece, stainless steel	H4
034.356	034.356) 生	Guided Adapter for Profile Drill, FIBA, H6, handpiece, stainless steel	H6

## 3.1.7 Guided Adapter for taps, FIBA

Guided Adapters for taps (FIBA – Fine Implant Bed Adapters) are designed to work with FIBA-compatible taps. These FIBA-compatible taps can be used in freehand cases, or in guided cases when used in conjunction with a Guided Adapter.

Art. No. Picture		Article	Sleeve position
034.357	U∏) 034,357) ΩΩ∞	Guided Adapter for Tap, FIBA, H2, handpiece, stainless steel	H2
034.358	034.358) 2 2 ω ω	Guided Adapter for Tap, FIBA, H4, handpiece, stainless steel	H4
034.359	034.359	Guided Adapter for Tap, FIBA, H6, handpiece, stainless steel	H6

The Guided Adapters are laser-marked with the corresponding T-sleeve position (H2, H4, H6). Use the correct adapter according to the selected T-sleeve position as shown in the chart below.



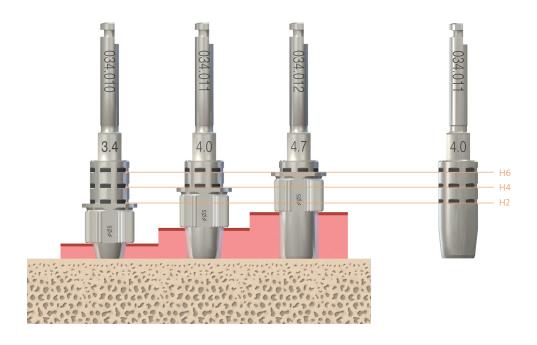
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## 3.2 CUTTING INSTRUMENTS

## 3.2.1 Mucosa Punch

For flapless surgery, the Mucosa Punch can be used through the 5.0 mm T-sleeve to punch through the gingiva for surgical access. The following table lists the mucosa punches available and their specifications.

Art. No.	Picture	Article name	Max rpm.
034.010	034,010	Mucosa Punch, Ø 3.4 mm, guided	
034.011	034.011	Mucosa Punch, Ø 4.0 mm, guided	15
034.012	034.012	Mucosa Punch, Ø 4.7 mm, guided	



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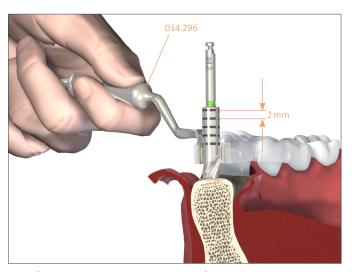
## 3.2.2 Milling Cutter

Milling Cutter are to be used to create a flat bone surface and a sufficiently wide area of bone. The following table lists the Milling Cutter to be selected for each implant bed.

Note: Milling cutters have no stop. Milling cutters must only be used for flattening the alveolar ridge.

Art. No.	Picture	Article Name	Max rpm.	Endosteal implant diameter (mm)
026.0144	JE ≠026.0144	Milling Cutter, Ø 2.2 mm, guided	800	Ø 2.9
034.215	/F	Milling Cutter, Ø 2.8 mm, guided	600	Ø 3.3 Ø 3.5
034.415	E = 2034.415 M	Milling Cutter, Ø 3.5 mm, guided	500	Ø 3.75 Ø 4.0 Ø 4.1
034.615	F ≠034.615	Milling Cutter, Ø 4.2 mm, guided	400	Ø 4.5 Ø 4.8

Choose the Milling Cutter and corresponding drill handle as indicated in the surgical protocol. Place the cylinder of the drill handle into the Sleeve in the surgical template. Insert the Milling Cutter into the cylinder until it contacts bone level. Prepare the alveolar ridge to the intended depth with the Milling Cutter. Use the 2mm intervals laser-marked on the Milling Cutter as a depth reference.



\* The  $\varnothing$  4.2 mm Drill Handle and corresponding  $\varnothing$  4.2 mm Milling Cutter are shown as an example.

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## 3.2.3 Drills

Straumann® guided drills are color-coded by diameter and bear a symbol on the shaft to indicate their guided length (see figure below).

Identification	Picture	Name	Compatibility
1 color ring	€ 044.787	Twist Drill PRO, guided	BL, TL
2 color rings	034.260	BLT Drills, guided	BLT
3 color rings	066.1302 ø2.8	VeloDrill™, guided	TLX, BLX, BLT*

<sup>\*</sup> Thanks to the reduced diameter at the tip of the drill, the VeloDrill™ guided is also suitable for the implant bed preparation for BLT implants.

Drill name	Guided length	Overall length	Symbol for drill length
Short	16 mm	34 mm	_
Medium	20 mm	38 mm	=
Long	24 mm	42 mm	=



Color coding and labeling of Straumann® cutting instruments for guided surgery:

Color-coding gui	ded instruments			
Color sequence		Instrument diameter		
	blue	Ø2.2 mm		
	yellow	Ø 2.8 mm		
0	white	Ø3.2 mm	Cuidad aumann aansmatibla	
	red	Ø3.5 mm	Guided surgery compatible	
	grey	Ø3.7 mm		
	green	Ø 4.2 mm		
	magenta	Ø 4.7 mm		
	brown	Ø 5.2 mm	Freehand only	
	black	Ø 6.2 mm		

## Straumann® Twist Drills, guided

Art. No.	Picture	Article	Length	Symbol	Overall length	Guided length	Max rpm.
044.783*	E ≠ 044.783	Pilot Twist Drill PRO, Ø 2.2 mm	-14		22	16	000
034.123**	E 034.123 o 2.2	Pilot Drill, guided, Ø 2.2 mm	short	_	32 mm	16 mm	800
044.784*	≥ 044.784	Pilot Twist Drill PRO, Ø 2.2 mm			26	20	000
034.126**	E 034.126 Ø 2.2	Pilot Drill, guided, Ø 2.2 mm	medium	um =	36 mm	20 mm	800
044.785*	044.785	Pilot Twist Drill PRO, Ø 2.2 mm	lana	=	40 mm	24 mm	800
034.129**	(= 034.129 ø 2.2	Pilot Drill, guided, Ø 2.2 mm	long	=	40 mm	24 mm	800
044.787*	€ 044.787	Twist Drill PRO, Ø 2.8 mm	short		32 mm	16 mm	600
034.223**	E 034.223 o 2.8	Twist Drill PRO, guided, Ø 2.8 mm	SHOLL	_	5211111	10111111	600
044.788*	€ 044.788	Twist Drill PRO, Ø 2.8 mm	medium	_	36 mm	20 mm	600
034.226**	E 034.226 ø 2.8	Twist Drill PRO, guided, Ø 2.8 mm	mealum	=	3011111	20 mm	600
044.789*	€ 044.789 W	Twist Drill PRO, Ø 2.8 mm	long	=	40 mm	24 mm	600
034.229**	□ 034.229 ø 2.8	Twist Drill PRO, guided, Ø 2.8 mm	long	=	40111111	2411111	
044.791*	€ 044.791	Twist Drill PRO, Ø 3.5 mm	short		32 mm	16 mm	500
034.423**	E 034.423 ø 3.5	Twist Drill PRO, guided, Ø 3.5 mm	SHOLL	_	32 mm	10111111	300
044.792*	€ 044.792	Twist Drill PRO, Ø 3.5 mm	medium	=	36 mm	20 mm	500
034.426**	E 034.426 @ 3.5	Twist Drill PRO, guided, Ø 3.5 mm	medium	_	3011111	20111111	300
044.793*	E ≥ 044.793	Twist Drill PRO, Ø 3.5 mm	long	_ ■	40 mm	24 mm	500
034.429**	E 034.429 @ 3.5 III	Twist Drill PRO, guided, Ø 3.5 mm	long	=	4011111	2411111	300
044.795*	€ 4044.795	Twist Drill PRO, Ø 4.2 mm	chort	_	22 mm	16 mm	400
034.623**	E 034.623 ø 4.2	Twist Drill PRO, guided, Ø 4.2 mm	short –	32 mm	16 mm	400	
044.796*	€ 044,796	Twist Drill PRO, Ø 4.2 mm	medium	_	36 mm	20 mm	400
034.626**	034.626 @ 4.2	Twist Drill PRO, guided, Ø 4.2 mm	medium	_	20111111	20111111	400
044.797*	E Ø 044.797	Twist Drill PRO, Ø 4.2 mm	long	=	40 mm	24 mm	400
034.629**	034.629 @ 4.2	Twist Drill PRO, guided, Ø 4.2 mm	long		40111111	24111111	400

## Straumann® BLT Drill, guided

Art. No.	Picture	Article	Length	Symbol	Overall length	Guided length	Max rpm.
034.257	034.257		short	-	33.4 mm	16 mm	
034.258	034.258	BLT Pilot Drill, Ø 2.2 mm	medium	=	37.4 mm	20 mm	800
034.259	034.259		long	=	41.4 mm	24 mm	
034.260	034.260		short	-	33.4 mm	16 mm	
034.261	034.261	BLT Drill,Ø 2.8 mm	medium	=	37.4 mm	20 mm	600
034.262	034.262		long	=	41.4 mm	24 mm	
034.263	034.263		short	-	33.4 mm	16 mm	
034.264	034.264	BLT Drill, Ø 3.5 mm	medium	=	37.4 mm	20 mm	500
034.265	034.265 )))		long	=	41.4 mm	24 mm	
034.266	0.5 034.266		short	-	33.4 mm	16 mm	
034.267	034.267	BLT Drill, Ø 4.2 mm	medium	=	37.4 mm	20 mm	400
034.268	034.268		long	=	41.4 mm	24 mm	

<sup>\*</sup> Not all products are available in all countries. \*\* This article will be replaced with above article.

## Straumann® VeloDrill™, guided

Art. No.	Picture	Article	Length	Symbol	Max rpm.
066.1301	066.1301 02.2		short	_	
066.1501	0.66.1501 62.2	Pilot VeloDrill™, guided, Ø 2.2 mm	medium	=	
066.1701	066.1701 62.2))))		long	=	
066.1302	066.1302 02.8		short	_	
066.1502	066 1502 62.8	VeloDrill™, guided, Ø 2.8 mm	medium	=	
066.1702	066.1702 02.8		long	=	
066.1303	066.1303 63.2		short	_	
066.1503	066.1503 63.2	VeloDrill™, guided, Ø 3.2 mm	medium	=	
066.1703	066.1703 a3.2		long	=	
066.1304	066.1304 63.5		short	_	
066.1504	066.1504 63.5	VeloDrill™, guided, Ø 3.5 mm	medium	=	
066.1704	066.4704 63.5		long	=	800
066.1305	066.1305 a3.7		short	_	
066.1505	066.1505 a3.7	VeloDrill™, guided, Ø 3.7 mm	medium	=	
066.1705	066.1705 63.7		long	=	
066.1306	066.1306 p4.2		short	_	
066.1506	066.1506 p4.2	VeloDrill™, guided, Ø 4.2 mm	medium	=	
066.1706	066.1706 64.2		long	=	
066.1307	066.1307 64.7	- VeloDrill™, guided, Ø 4.7 mm	short	_	
066.1707	068.1707 64.7	velobilii , gulueu, p 4.7 IIIII	long	=	
066.1308	066,1300 n5;2	VeloDrill™, guided, Ø 5.2 mm	short	_	
066.1309	0661309 062	VeloDrill™, guided, Ø 6.2 mm	short	_	

**Note:** The cutting geometry of the Straumann<sup>®</sup> VeloDrill<sup>™</sup> guided has been optimized to create less heat during drilling, therefore a universal drill speed of 800rpm for all diameter is recommended.

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## 3.2.4 Profile Drills, FIBA compatible

Only profile drills labeled to be FIBA compatible are to be used with the Guided Adapter for profile drills, FIBA. Always use the correct Guided Adapter according to the T-sleeve position (H2, H4, H6). Using the incorrect Guided Adapter or non-FIBA compatible may cause incorrect drilling depth.

Art. No.	Picture	Article	Max rpm.
034.324	BLT ø3.3	BLT Profile Drill, short, FIBA compatible, Ø 3.3 mm	
034.325	BLT ø4.1	BLT Profile Drill, short, FIBA compatible, Ø 4.1 mm	
034.326	BLT ø4.8	BLT Profile Drill, short, FIBA compatible, Ø 4.8 mm	
034.327	BL/NNC ø3.3	BL/NNC Profile Drill, short, FIBA compatible, Ø 3.3 mm	
034.328	BL ø4.1	BL Profile Drill, short, FIBA compatible, $\varnothing$ 4.1 mm	300
034.329	BL 04.8	BL Profile Drill, short, FIBA compatible, $\varnothing$ 4.8 mm,	
034.332	SP ø3.3	SP Profile Drill, RN, short, FIBA compatible, Ø 3.3 mm	
034.333	SP 04.1	SP Profile Drill, RN, short, FIBA compatible, Ø 4.1 mm	

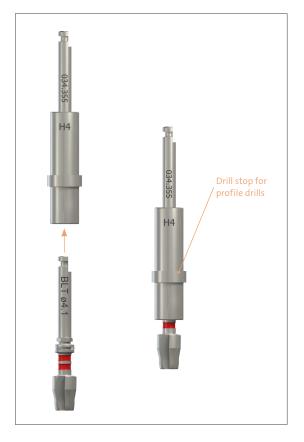
Use tweezers or Stop Key (art. no. 034.006) to engage and disengage the profile drill with the Guided Adapter to avoid touching the cutting part of the profile drill.

When the profile drill is inserted into the octagonal connection part in the Guided Adapter, there is an audible click as it engages.

Shape the coronal part of the implant bed with the corresponding

profile drill at the recommended max rpm speed.

Always drill until the collar of the Guided Adapter hits the T-sleeve in order to reach the required depth.



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## 3.2.5 Taps, FIBA compatible

Only Taps labeled to be FIBA compatible are to be used with the Guided Adapter for taps, FIBA. Always use the correct Guided Adapter according to the T-sleeve position (H2, H4, H6). Using the incorrect Guided Adapter or non-FIBA compatible may result in an incorrect drilling depth.

Art. No.	Picture	Article	Max rpm.
034.345		BLT Tap, short, FIBA compatible, Ø 3.3 mm	
034.346		BLT Tap, short, FIBA compatible, Ø 4.1 mm	
034.347		BLT Tap, short, FIBA compatible, Ø 4.8 mm	
034.348		BL/NNC Tap, short, FIBA compatible, Ø 3.3 mm	
034.349		BL Tap, short, FIBA compatible, Ø 4.1 mm	15
034.350		BL Tap, short, FIBA compatible, Ø 4.8 mm	
034.351		S/SP Tap, short, FIBA compatible, Ø 3.3 mm	
034.352		S/SP Tap, short, FIBA compatible, Ø 4.1 mm	
034.353		S/SP Tap, short, FIBA compatible, Ø 4.8 mm	

When the Tap is inserted into the octagonal connection part in the Guided Adapter, there is an audible click as it engages.

Use the laser marks on the Guided Adapter for depth reference (2 mm intervals). The maximum recommended speed is 15 rpm.

**Caution:** Do not apply torque greater than 60 Ncm. Torque values above 60 Ncm can result in damage to the tap.



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## 3.3 GUIDED IMPLANT PLACEMENT

## 3.3.1 Guided Adapter for the Loxim® Transfer Piece

The Guided Adapter is designed to be mounted on Straumann® implants using a Loxim® Transfer Piece; the implants should be inserted through a Straumann® Ø 5.0 mm T-sleeve. The Guided Adapter provides visual depth control and can be used either with the aid of the handpiece, or manually using the ratchet.

The laser markings on the Guided Adapter are provided for identification. Please be aware that the correct Guided Adapter must be used for the corresponding implant type. Using the wrong Guided Adapter type could result in placing the implant deeper than planned.



Art. No.	Picture	Article
046.708	(1) 046.708   W	SP/NNC/TE Guided Adapter, for handpiece
046.709	046.709	S Guided Adapter, for handpiece
026.0083	026.0083	BL/BLT Guided Adapter, for handpiece (Not compatible with Straumann® BLT Ø 2.9 mm SC)
046.710		SP/NNC/TE Guided Adapter, for ratchet
046.711		S Guided Adapter, for ratchet
026.0084		BL/BLT Guided Adapter, for ratchet (Not compatible with Straumann® BLT Ø 2.9 mm SC)

**Note:** Due to a different height of the Loxim® Transfer Piece, the Straumann® Bone Level Tapered  $\varnothing$  2.9 mm Small CrossFit® connection shall not placed guided using the BL/BLT Guided Adapter. The markings on the Adapter give an incorrect height reading for the BLT  $\varnothing$  2.9 mm.

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## Implant pick-up

Step 1 – Attach the Guided Adapter to the Loxim® Transfer Piece

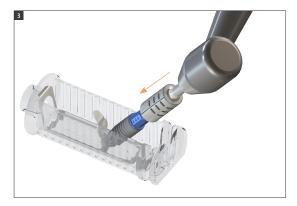


**Step 2** – For implants with CrossFit® connection (BL/BLT), ensure the vertical lines on the Guided Adapter are aligned with the dots on the Loxim® Transfer Piece.



**Step 3** – Remove the implant from the carrier and push it against the titanium implant stopper plate for correct attachment of the Guided Adapter. A click will be heard when the Guided Adapter is attached correctly.

The Guided Adapter must be fully engaged with the Loxim® Transfer Piece to ensure depth control.



**Note:** If the implant needs to be removed during implantation surgery, the Loxim® Transfer Piece allows for counterclockwise rotation. If the Loxim® Transfer Piece has been removed, it can easily be re-inserted to complete an incomplete implant placement.

The Loxim® Transfer Piece is provided with a pre- determined breaking point to prevent the implant's inner configuration from damage, thus ensuring the integrity of the interface to mount the prosthesis. If the Loxim® Transfer Piece breaks during implant insertion, do not continue to use the Guided Adapter but change to a conventional adapter. For further details, please consult the brochure Straumann® Dental Implant System, Basic Information (702084/en) in the section Additional information for implants with the Loxim® Transfer Piece.

## 3.3.2 Guided Implant Driver

The Guided Implant Driver has depth marks for the H2, H4 and H6 T-sleeve positions. Before implant placement, consult the surgical protocol and confirm that the T-sleeve position matches the implant site. The laser markings on the guided implant drivers are provided for identification. Please be aware that the correct guided implant drivers must be used for the corresponding implant type (S TLX, SP TLX, BLX). Using the wrong type could result in implant placement deeper than planned.

Art. No.	Picture	Article	Compatibility
037.3000	SXL	TLX/TLC Guided Implant Driver, ratchet, S	TLX, S
037.3001	Ε 100ε.7ε0 2.XIT	TLX/TLC Guided Implant Driver, handpiece, S	
037.3002	65X1	TLX/TLC Guided Implant Driver, ratchet, SP	TLX, SP
037.3003	E 6006.7E0 92 XJT	TLX/TLC Guided Implant Driver, handpiece, SP	
066.4401	TorcFit	BLX/BLC Guided Implant Driver, ratchet, screw-retained	
066.4404	XI	BLX/BLC Guided Implant Driver, ratchet	BLX
066.4403	BFX 0999403	BLX/BLC Guided Implant Driver, handpiece	

## Implant pick-up

The BLX Implants are provided with a new implant carrying system that supports direct pick-up with an appropriate Implant Driver.

**Step 1** – Hold the vial lid and connect the Implant Driver to the implant using the handpiece. You hear a click when the Driver is attached correctly.

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



**Step 2** – A slight clockwise turn is needed to remove the implant from its holder.



## Stop Key

For the BLX screw-retained Guided Implant Driver for Ratchet (066.4401), a Stop Key (034.006) can be used for a physical stop to indicate the final implant position. Use the Stop Key with the flat side pointing towards the T-sleeve.

Art. No.	Picture
034.006	034.006

## 4. STRAUMANN® DENTAL IMPLANT PORTFOLIO FOR GUIDED SURGERY

The following table provides the overview of the Straumann® dental implant portfolio.

- Implants colored in green are compatible with the fully guided workflow.
- Implants colored in blue are too wide to fit through the Ø 5.0 mm T-sleeves. Remove the Surgical Template after guided implant bed preparation and place the implant freehand.
- Implant colored in yellow offer guided pilot drilling only.

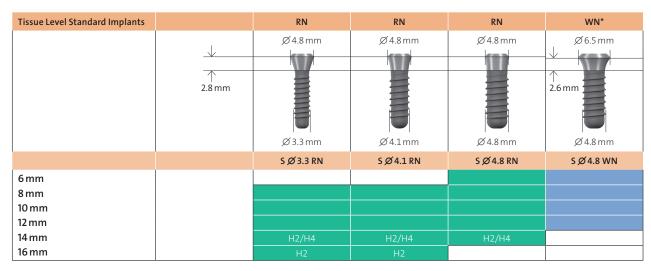
For short implants (4 mm and 6 mm) and long implants (14 mm and 16 mm) not all T-sleeve positions are possible; available positions are indicated in the table (refer to Chapter 5. *T-sleeve position/implant length matrix* on page 34).

18 mm long implants cannot be placed using guided surgery.



Bone Level Tapered Implants	SC	NC	1	RC
	Ø 2.9 mm	Ø 3.3 mm	Ø4.1 mm	Ø4.8 mm
	BLT Ø 2.9 SC	BLT Ø 3.3 NC	BLT Ø 4.1 RC	BLT Ø 4.8 RC
8 mm				
10 mm				
12 mm				
14 mm	H2/H4	H2/H4	H2/H4	H2/H4
16 mm		H2	H2	H2
18 mm		18 mm ir	mplants cannot be place	ed guided

BLX Implants		R	В	WB			
	Ø3.4 mm		Ø3.5 mm	4111141		Ø 4.5 mm	
	BLX Ø 3.5 RB	BLX Ø 3.75 RB	BLX Ø 4.0 RB	BLX Ø 4.5 RB	BLX Ø 5.0 WB	BLX Ø 5.5 WB	BLX Ø 6.5 WB
6 mm 8 mm 10 mm							
12 mm 14 mm		H2/H4	H2/H4	H2/H4	H2/H4 H2	H2/H4	H2/H4
16 mm 18 mm	H2 H2 H2 H2  18 mm implants cannot be placed guided					H2	H2



Tissue Level Standard Plus Implants	NNC	RN	RN	RN	WN*
1.8 mm	Ø3.5 mm	Ø4.8mm	Ø4.8mm	Ø4.8 mm	Ø 6.5 mm
	SP Ø 3.3 NNC	SP Ø 3.3 RN	SP Ø 4.1 RN	SP Ø 4.8 RN	SP Ø 4.8 WN
4 mm 6 mm 8 mm 10 mm			H4/H6	H4/H6	H4/H6
14 mm	H2/H4	H2/H4	H2/H4	H2/H4	

TLX Implants Standard TLX Implants Standard Plus	NT	RT	NT	RT	W	T*
	Ø 3.5 mm	Ø4.8 mm	Ø 3.5 mm	Ø4.8 mm	Ø 6.5	5 mm
					47.70	
	S/SP Ø 3.5 NT	S/SP Ø 3.75 RT	S/SP Ø 4.5 NT	S/SP Ø 4.5 RT	S/SP Ø 5.5 WT	S/SP Ø 6.5 WT
6 mm						
8 mm						
10 mm						
12 mm						
14 mm	H2/H4	H2/H4	H2/H4	H2/H4		
16 mm	H2	H2	H2	H2		
18 mm	18 mm implants cannot be placed guided					

<sup>\*</sup> For WN and WT ( $\varnothing$  6.5 mm) remove the template for freehand profile drilling.

**Note:** Guided handles are compatible up to  $\emptyset$  4.2 mm. For drills with  $\emptyset$  4.7 mm and larger remove the template for freehand drilling.

## 5. T-SLEEVE POSITION AND IMPLANT LENGTH MATRIX

## 5.1 T-SLEEVES Ø 5.0 MM

Impla	nt length	4 mm	6 mm	8mm	10 mm	12 mm	14 mm	16 mm
			Short drill	Short drill	Medium drill	Medium drill	Long drill	Long drill
	H2 2 mm		+3 handle ● ● ●	+1 handle ●	+3 handle ●●●	+1 handle	+3 handle	+1 handle
position		Short drill	Short drill	Medium drill	Medium drill	Long drill	Long drill	
Sleeve posi	H44mm	+3 handle ● ● ●	+1 handle	+3 handle	+1 handle	+3 handle	+1 handle	
IS		Short drill	Medium drill	Medium drill	Long drill	Long drill		
	H66mm	+1 handle	+3 handle ● ● ●	+1 handle	+3 handle	+1 handle		

**Note:** Avoid planning 6 mm and 8 mm BLX and TLX implants in the H2 T-sleeve position, since 4 mm of guided drilling is not possible in the H2 position. Instead, remove the template and continue drilling using conventional procedures.

## 5.2 CORONAL WIDENING

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Impla	nt length	Coronal-widening implant 6-8 mm	Coronal-widening implant 10-18 mm		
	H22mm		Short drill  +3 handle		
Sleeve position	H44mm	Short drill  +3 handle	Short drill +1 handle		
	H6 6 mm	Short drill  +1 handle	Medium drill = +3 handle • • •		

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# 5.3 T-SLEEVES Ø 2.8 MM (NARROW INTERDENTAL SPACE)

The  $\emptyset$  2.8 mm T-sleeve has a height of 6 mm. This is the equivalent of adding the +1 mm cylinder height to the 5.0 mm T-sleeve height. Hence no drill handles are required.

lm	Implant length		6 mm	8 mm	10 mm	12 mm	14 mm	16 mm
		H2 2 mm		Short drill — No handle		Medium drill = No handle		Long drill  No handle
-	Sieeve position	H44mm	Short drill — No handle		Medium drill = No handle		Long drill  No handle	
<b>IS</b>	Λ	H6 6 mm		Medium drill = No handle		Long drill  To No handle		

## 5.4 T-SLEEVES Ø 2.2 MM (PILOT GUIDED)

The  $\emptyset$  2.2 mm T-sleeve has a height of 6 mm. This is the equivalent of adding the +1 mm cylinder height to the 5.0 mm T-sleeve height. Hence no drill handles are required.

Implant length		6 mm	8 mm	10 mm	12 mm	14 mm	16 mm
	H22mm		Short drill — No handle		Medium drill = No handle		Long drill  No handle
Sleeve position	H44mm	Short drill  No handle		Medium drill = No handle		Long drill  No handle	
IS	H6 6 mm		Medium drill = No handle		Long drill  Tong drill  No handle		

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# 6. RELATED DOCUMENTS

For further information, please consult the following brochures:

- Straumann® Dental Implant System, Basic Information (702084/en)
- Straumann® Bone Level Tapered Implant, Basic Information (702167/en)
- Straumann® BLX Implant System, Basic Information (702115/en)
- Straumann® TLX Implant System, Basic Information (702854/en)
- Straumann® Modular Cassette, Basic Information (702527/en)
- Straumann® Modular Cassette, Selection Guide (702824/en)
- Straumann® Surgical and Prosthetic Instruments, Care and maintenance (702000/en)
- Guidance for Implant Removal, Basic Information (702085/en)
- Straumann® Guided Surgery (702083/en) Guided Surgery System with C-Handles

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# 7. ARTICLE LIST – INSTRUMENTS FOR GUIDED SURGERY

For Surgical Kit set up refer to the Modular Cassette Selection Guide (702824/en).

### 7.1 GUIDED SURGERY WITH TISSUE LEVEL IMPLANTS (TL S/TL SP)

Art. No.	Picture	Article
B Module		
041.776	A April 1990	Straumann® Modular Cassette, B Module
041.782		B Module, Guided Parallel Walled Tray
034.010	E 034.010	Mucosa Punch Ø 3.4 mm, 30 mm, guided
034.011	E= 034.011 3	Mucosa Punch Ø 4.0 mm,30 mm, guided
034.012	C 034.012 7 7	Mucosa Punch Ø 4.7 mm, 30 mm, guided
034.215	E ≥034.219 <mark>.</mark>	Milling Cutter, Ø 2.8 mm, 32.5 mm, guided
034.415	E @034,415	Milling Cutter, Ø3.5 mm, 32.5 mm, guided
034.615	E ≈034.615	Milling Cutter, Ø4.2 mm, 32.5 mm, guided
044.783*	€ 044.783	Pilot Twist Drill PRO, Ø 2.2 mm, short
034.123**	E 034.123 e 2.2	Pilot Drill, guided, Ø 2.2 mm, short
044.784*	E # 044.784	Pilot Twist Drill PRO, Ø 2.2 mm, medium
034.126**	E 034.126 ø 2.2	Pilot Drill, guided, Ø 2.2 mm, medium
044.785*	€ ≥ 044.785	Pilot Twist Drill PRO, Ø 2.2 mm, long
034.129**	E 034.129 o 2.2	Pilot Drill, guided, Ø 2.2 mm, long
044.787*	9 044,787	Twist Drill PRO, Ø 2.8 mm, short
034.223**	084223 0 2.8	Twist Drill PRO, guided, Ø 2.8 mm, short
044.788*	044.788	Twist Drill PRO, Ø 2.8 mm, medium
034.226**	034226 0 2.8	Twist Drill PRO, guided, Ø 2.8 mm, medium
044.789*	204.789	Twist Drill PRO, Ø 2.8 mm, long
034.229**	084229 0 2 8 1111	Twist Drill PRO, guided, Ø 2.8 mm, long
044.791*	2 044.791	Twist Drill PRO, Ø 3.5 mm, short
034.423**	(E 034.423 o 3.5 )	Twist Drill PRO, guided, Ø 3.5 mm, short
044.792*	E # 044.792	Twist Drill PRO, Ø 3.5 mm, medium
034.426**	034.426 @ 3.5	Twist Drill PRO, guided, Ø 3.5 mm, medium
044.793*	Ø 044.763	Twist Drill PRO, Ø 3.5 mm, long
034.429**	034.429 0 3.5	Twist Drill PRO, guided, Ø 3.5 mm, long
044.795*	E # 044.795	Twist Drill PRO, Ø 4.2 mm, short
034.623**	034 623 @ 4.2	Twist Drill PRO, guided, Ø 4.2 mm, short
044.796*	€ 044.796	Twist Drill PRO, Ø 4.2 mm, medium
034.626**	□ 034.626 ø 4.2 Ⅱ	Twist Drill PRO, guided, Ø 4.2 mm, medium
044.797*	£ 044.797	Twist Drill PRO, Ø 4.2 mm, long
034.629**	034.629 0 4.2 [ ]	Twist Drill PRO, guided, Ø 4.2 mm, long
	ucts are available in all countries	1

<sup>\*</sup> Not all products are available in all countries.

<sup>\*\*</sup> This article will be replaced with above article.

Art. No.	Picture	Article
B Module		
046.799	2.20 5 2 5 5 0 0 4	Depth Gauge, Ø 2.2 mm, L29 mm, TAN
046.800	8.20 8.20 8.2 5 5 0 0 4	Depth Gauge, Ø 2.8 mm, L29 mm, TAN
046.802	3.80 to a to b to a	Depth Gauge, Ø 3.5 mm, L29 mm, TAN
046.804	2 40 6 5 5 0 0 4	Depth Gauge, Ø 4.2 mm, L29 mm, TAN
034.354	cE 034.354	Guided Adapter for Profile Drill, FIBA, H2, handpiece, stainless steel
034.355	(上 034,355	Guided Adapter for Profile Drill, FIBA, H4, handpiece, stainless steel
034.356	(E 034.356 또	Guided Adapter for Profile Drill, FIBA, H6, handpiece, stainless steel
034.357	034.357	Guided Adapter for Tap, FIBA, H2, handpiece, stainless steel
034.358	<u>2</u> 034.358 2 2 ∞ ω	Guided Adapter for Tap, FIBA, H4, handpiece, stainless steel
034.359	034.359	Guided Adapter for Tap, FIBA, H6, handpiece, stainless steel
034.005		Connector for Ratchet
034.332	SP ø3.3	SP Profile Drill, RN, short, FIBA compatible, Ø 3.3 mm, L 25 mm, stainless steel
034.333	E SP ø4.1	SP Profile Drill, RN, short, FIBA compatible, Ø 4.1 mm, L 25 mm, stainless steel
044.084	E 044.084 SP 64.8	SP profile drill, WN, Ø 4.8 mm, short, L 23.8 mm, stainless steel
034.351		S/SP Tap, short, FIBA compatible, Ø 3.3 mm, L22, stainless steel
034.352		S/SP Tap, short, FIBA compatible, Ø 4.1 mm, L22, stainless steel
034.353		S/SP Tap, short, FIBA compatible, Ø 4.8 mm, L22, stainless steel
046.708	<del>%</del>	SP/NNC/TE Guided Adapter, for handpiece
046.710	3111	SP/NNC/TE Guided Adapter, for ratchet
C Module		
041.772	Towns Constitution of the	Straumann® ModularCassette, C Module, Guided Surgery
026.0147	022	Drill Handle, Ø 2.2 mm, 1 mm/3 mm stop, stainless steel
026.0148	02.8	Drill Handle, Ø 2.8 mm, 1 mm/3 mm stop, stainless steel
026.0150	03.5	Drill Handle, Ø 3.5 mm, 1 mm/3 mm stop, stainless steel
026.0152	04.2	Drill Handle, Ø 4.2 mm, 1 mm/3 mm stop, stainless steel
034.284	(5 034.284 e1.3	Drill for Template Fixation Pin, Ø 1.3 mm
034.282	034.282	Template Fixation Pin, Ø 1.3 mm
034.298		Template Fixation Pin, Ø2.8/2.8 mm, guided
034.285		Template Fixation Pin, Ø5/2.8, guided, stainless steel
034.287		Template Fixation Pin, Ø5/3.5, guided, stainless steel
034.289		Template Fixation Pin, Ø5/4.2, guided, stainless steel

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Make sure that the right combination of sleeves and Drill handles is selected. For more information go to Chapter 3.1.5 *Drill Handle* on page 20.

# 7.2 GUIDED SURGERY WITH BONE LEVEL IMPLANTS (BL)

Art. No.	Picture	Article
B Module		
041.776	America	Straumann® Modular Cassette, B Module
041.782	12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	B Module, Guided Parallel Walled Tray
034.010	034.010	Mucosa Punch Ø 3.4 mm, 30 mm, guided
034.011	J 034.011 3	Mucosa Punch Ø 4.0 mm, 30 mm, guided
034.012	E 034.012	Mucosa Punch Ø 4.7 mm, 30 mm, guided
034.215	E ≠034.215	Milling Cutter, Ø2.8 mm, 32.5 mm, guided
034.415	E ≥034.415	Milling Cutter, Ø3.5 mm, 32.5 mm, guided
034.615	E ≠034.615	Milling Cutter, Ø4.2 mm, 32.5 mm, guided
044.783*	∅ 044.783	Pilot Twist Drill PRO, Ø 2.2 mm, short
034.123**	E 034.123 ø 2.2	Pilot Drill, guided, Ø 2.2 mm, short
044.784*	₹ 044,784	Pilot Twist Drill PRO, Ø 2.2 mm, medium
034.126**	E 034.126 o 2.2	Pilot Drill, guided, Ø 2.2 mm, medium
044.785*	€ ≥ 044.785	Pilot Twist Drill PRO, Ø 2.2 mm, long
034.129**	□ 034.129 ø 2.2 [ ]	Pilot Drill, guided, Ø 2.2 mm, long
044.787*	€ 9 044.787	Twist Drill PRO, Ø 2.8 mm, short
034.223**	E 034.223 o 2.8	Twist Drill PRO, guided, Ø 2.8 mm, short
044.788*	044,788	Twist Drill PRO, Ø 2.8 mm, medium
034.226**	E 034 226 Ø 2.8	Twist Drill PRO, guided, Ø 2.8 mm, medium
044.789*	€ ≠ 044.789	Twist Drill PRO, Ø 2.8 mm, long
034.229**	□ 084.229 ø 2.8 <b>     </b>	Twist Drill PRO, guided, Ø 2.8 mm, long
044.791*	≥ 044.791	Twist Drill PRO, Ø 3.5 mm, short
034.423**	E 034.423 Ø 3.5	Twist Drill PRO, guided, Ø 3.5 mm, short
044.792*	E / 044.792	Twist Drill PRO, Ø 3.5 mm, medium
034.426**	034.426 o 3.5	Twist Drill PRO, guided, Ø 3.5 mm, medium
044.793*	€ ≥ 044.793	Twist Drill PRO, Ø 3.5 mm, long
034.429**	034.429 o 3.5	Twist Drill PRO, guided, Ø 3.5 mm, long
044.795*	≠ 044.795	Twist Drill PRO, Ø 4.2 mm, short
034.623**	E 034.623 o 4.2	Twist Drill PRO, guided, Ø 4.2 mm, short
044.796*	E \$ 044.796	Twist Drill PRO, Ø 4.2 mm, medium
034.626**	G 034.626 o 4.2 [[	Twist Drill PRO, guided, Ø 4.2 mm, medium
044.797*	× 044.797	Twist Drill PRO, Ø 4.2 mm, long
034.629**	□ 034.629 g·4.2 <b>   </b>	Twist Drill PRO, guided, Ø 4.2 mm, long

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<sup>\*</sup> Not all products are available in all countries. \*\* This article will be replaced with above article.

Art. No.	Picture	Article
B Module		
046.799	2.20 5 5 5 5 5 0 0 4 D	Depth Gauge, Ø 2.2 mm, L29 mm, TAN
046.800	8.20 6 4 5 6 m 0 4	Depth Gauge, Ø 2.8 mm, L29 mm, TAN
046.802	2.50 6 5 5 5 0 0 4	Depth Gauge, Ø 3.5 mm, L29 mm, TAN
046.804	2.4a to	Depth Gauge, Ø 4.2 mm, L29 mm, TAN
034.354	E 034.354 N	Guided Adapter for Profile Drill, FIBA, H2, handpiece, stainless steel
034.355	上 034.355	Guided Adapter for Profile Drill, FIBA, H4, handpiece, stainless steel
034.356	년 034.356 또	Guided Adapter for Profile Drill, FIBA, H6, handpiece, stainless steel
034.357	034.357 ♀♀∞	Guided Adapter for Tap, FIBA, H2, handpiece, stainless steel
034.358	C = 034.358	Guided Adapter for Tap, FIBA, H4, handpiece, stainless steel
034.359	034.359 № 0 4	Guided Adapter for Tap, FIBA, H6, handpiece, stainless steel
034.327	BL/NNC ø3.3	BL/NNC Profile Drill, short, FIBA compatible, Ø 3.3 mm, L 28 mm, stainless steel
034.328	E BL ø4.1	BL Profile Drill, short, FIBA compatible, Ø 4.1 mm, L 28 mm, stainless steel
034.329	BL 04.8	BL Profile Drill, short, FIBA compatible, Ø 4.8 mm, L 28 mm, stainless steel
034.348		BL/NNC Tap, short, FIBA compatible, Ø 3.3 mm, L 22 mm, stainless steel
034.349		BL Tap, short, FIBA compatible, Ø 4.1 mm, L 22 mm, stainless steel
034.350		BL Tap, short, FIBA compatible, Ø 4.8 mm, L 22 mm, stainless steel
034.005		Connector for Ratchet
026.0083	026.0083	BL/BLT Guided Adapter, for Handpiece
026.0084	11118	BL/BLT Guided Adapter, for Ratchet
C Module		
041.772	Annual of Annual	Straumann® ModularCassette, C Module, Guided Surgery
026.0147	022	Drill Handle, Ø 2.2 mm, 1 mm/3 mm stop, stainless steel
026.0148	02.8	Drill Handle, Ø 2.8 mm, 1 mm/3 mm stop, stainless steel
026.0150	03.5	Drill Handle, Ø 3.5 mm, 1 mm/3 mm stop, stainless steel
026.0152	• 04.2	Drill Handle, Ø 4.2 mm, 1 mm/3 mm stop, stainless steel
034.284	034.284 ø1.3	Drill for Template Fixation Pin, Ø 1.3 mm
034.282	034,282	Template Fixation Pin, Ø 1.3 mm
034.298		Template Fixation Pin, Ø2.8/2.8 mm, guided
034.285		Template Fixation Pin, Ø5/2.8 mm, guided, stainless steel
034.287		Template Fixation Pin, Ø5/3.5 mm, guided, stainless steel
034.289		Template Fixation Pin, Ø5/4.2 mm, guided, stainless steel

Make sure that the right combination of sleeves and Drill handles is selected. For more information go to Chapter 3.1.5 *Drill Handle* on page 20.

# 7.3 GUIDED SURGERY WITH BONE LEVEL TAPERED IMPLANTS (BLT)

Art. No.	Picture	Article
B Module		
041.776	A Secretaria	Straumann® Modular Cassette, B Module
041.781	10 M 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B Module, Guided Basic Tray
034.010	E 034,010 ₹	Mucosa Punch Ø 3.4 mm, 30 mm, guided
034.011	E_034.011	Mucosa Punch Ø 4.0 mm, 30 mm, guided
034.012	L 034.012	Mucosa Punch Ø 4.7 mm, 30 mm, guided
034.215	E <034.215	Milling Cutter, Ø 2.8 mm, 32.5 mm, guided
034.415	E ≈034.415 N	Milling Cutter, Ø3.5 mm, 32.5 mm, guided
034.615	□ ≠034.615	Milling Cutter, Ø4.2 mm, 32.5 mm, guided
034.257	E_034.257	BLT Drill, short, guided, length 33.4 mm, Ø 2.2 mm
034.258	034.258	BLT Drill, medium, guided, length 37.4 mm, Ø 2.2 mm
034.259	034.259	BLT Drill, long, guided, length 41.4 mm, Ø 2.2 mm
034.260	034.260	BLT Drill, short, guided, length 33.4 mm, Ø 2.8 mm
034.261	_=_034.261 II	BLT Drill, medium, guided, length 37.4 mm, Ø 2.8 mm
034.262	034.262	BLT Drill, long, guided, length 41.4 mm, Ø 2.8 mm
034.263	034.263	BLT Drill, short, guided, length 33.4 mm, Ø 3.5 mm
034.264	E 034.264	BLT Drill, medium, guided, length 37.4 mm, Ø 3.5 mm
034.265	034.265	BLT Drill, long, guided, length 41.4 mm, Ø 3.5 mm
034.266	034.266	BLT Drill, short, guided, length 33.4 mm, Ø 4.2 mm
034.267	E 034.267	BLT Drill, medium, guided, length 37.4 mm, Ø 4.2 mm
034.268	E 034.268 III	BLT Drill, long, guided, length 41.4 mm, Ø 4.2 mm
034.354	C 034.354 N	Guided Adapter for Profile Drill, FIBA, H2, handpiece, stainless steel
034.355	E 034.355 \(\frac{\fir}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	Guided Adapter for Profile Drill, FIBA, H4, handpiece, stainless steel
034.356	E 034.356 Ψ	Guided Adapter for Profile Drill, FIBA, H6, handpiece, stainless steel
034.357	034.357 ≅ ⊇∞	Guided Adapter for Tap, FIBA, H2, handpiece, stainless steel
034.358	L 034.358 2 2 ∞ ω	Guided Adapter for Tap, FIBA, H4, handpiece, stainless steel
034.359	034.359 № Ω ∞ Φ	Guided Adapter for Tap, FIBA, H6, handpiece, stainless steel
034.324	BLT ø3.3	BLT Profile Drill, short, FIBA compatible, Ø 3.3 mm, L 27 mm, stainless steel
034.325	BLT c4.1	BLT Profile Drill, short, FIBA compatible, Ø 4.1 mm, L 27 mm, stainless steel
034.326	LE BLT 64.8	BLT Profile Drill, short, FIBA compatible, Ø 4.8 mm, L 27 mm, stainless steel

Alternatively, an X-Velodrill™ with a respective diameter can be used for BLT Guided Surgery.

Art. No.	Picture	Article				
B Module	B Module					
034.345		BLT Tap, short, FIBA compatible, Ø 3.3 mm, L 21 mm, stainless steel				
034.346		BLT Tap, short, FIBA compatible, Ø 4.1 mm, L 21 mm, stainless steel				
034.347		BLT Tap, short, FIBA compatible, Ø 4.8 mm, L 21 mm, stainless steel				
034.005		Connector for Ratchet				
026.0083		BL/BLT Guided Adapter, for Handpiece				
026.0084		BL/BLT Guided Adapter, for Ratchet				
C Module						
041.772	Comment of the second	Straumann® ModularCassette, C Module, Guided Surgery				
026.0147	022	Drill Handle, Ø 2.2 mm, 1 mm/3 mm stop, stainless steel				
026.0148	028	Drill Handle, Ø 2.8 mm, 1 mm/3 mm stop, stainless steel				
026.0150	035	Drill Handle, Ø 3.5 mm, 1 mm/3 mm stop, stainless steel				
026.0152	042	Drill Handle, Ø 4.2 mm, 1 mm/3 mm stop, stainless steel				
034.284	□ 034.284 ø1.3	Drill for Template Fixation Pin, Ø 1.3 mm				
034.282		Template Fixation Pin, Ø 1.3 mm				
034.298		Template Fixation Pin, Ø2.8/2.8 mm, guided				
034.285		Template Fixation Pin, Ø5/2.8 mm, guided, stainless steel				
034.287		Template Fixation Pin, Ø5/3.5 mm, guided, stainless steel				
034.289		Template Fixation Pin, Ø5/4.2 mm, guided, stainless steel				

 $\label{eq:make-sure-that-the-right-combination} Make sure that the right combination of sleeves and Drill handles is selected.$ 

For more information go to Chapter 3.1.5 *Drill Handle* on page 20.

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# 7.4 GUIDED SURGERY WITH BLX AND TLX IMPLANTS

Art. No.	Picture	Article
B Module		
041.776	American	Straumann® Modular Cassette, B Module
041.780		B Module, Guided Fully Tapered Tray
034.010	034.010 7 %	Mucosa Punch Ø 3.4 mm, 30 mm, guided
034.011	J. 034.011 3	Mucosa Punch Ø 4.0 mm,30 mm, guided
034.012	J 034.012	Mucosa Punch Ø 4.7 mm, 30 mm, guided
034.215	E ≥034.219 <mark>.</mark>	Milling Cutter, Ø2.8 mm, 32.5 mm, guided
034.415	≥ 034.415	Milling Cutter, Ø3.5 mm, 32.5 mm, guided
034.615	≥ 034.615	Milling Cutter, Ø4.2 mm, 32.5 mm, guided
066.1301	5 066.1301 g2.2	Pilot VeloDrill™, guided, Ø2.2 mm, short
066.1302	066.1302 02.8	VeloDrill™, guided, Ø2.8 mm, short, stainless steel
066.1303	066.1303 n3.2	VeloDrill™, guided, Ø3.2 mm, short, stainless steel
066.1304	066.1304 g3.5	VeloDrill™, guided, Ø3.5 mm, short, stainless steel
066.1305	□ 066.1305 ø3.7	VeloDrill™, guided, Ø3.7 mm, short, stainless steel
066.1306	E 066.1306 ø4.2	VeloDrill™, guided, Ø4.2 mm, short, stainless steel
066.1307		VeloDrill™, guided, Ø4.7 mm, short, stainless steel
066.1308	E 068.1308-p5.2	VeloDrill™, guided, Ø5.2, short, stainless steel
066.1309	E-066.1309 o6.2	VeloDrill™, guided, Ø6.2, short, stainless steel
066.1501	□ 066.1501 ø2.2	Pilot VeloDrill™, guided, Ø2.2 mm, medium, stainless steel
066.1502	066.1502 62.8	VeloDrill™, guided, Ø2.8 mm, medium, stainless steel
066.1503	066.1503 03.2	VeloDrill™, guided, Ø3.2 mm, medium, stainless steel
066.1504	086.1504 p3.5	VeloDrill™, guided, Ø3.5 mm, medium, stainless steel
066.1505		VeloDrill™, guided, Ø3.7 mm, medium, stainless steel
066.1506	066.1506.94.2	VeloDrill™, guided, Ø4.2 mm, medium, stainless steel
066.1701	□ 066.1701 ø2.2 <b>         </b>	Pilot VeloDrill™, guided, Ø2.2 mm, long. stainless steel
066.1702	066.1702 ø2.8	VeloDrill™, guided, Ø2.8 mm, long, stainless steel
066.1703	066.1703 g3.2	VeloDrill™, guided, Ø3.2 mm, long, stainless steel
066.1704	066.1704 ø3.5	VeloDrill™, guided, Ø3.5 mm, long, stainless steel
066.1705		VeloDrill™, guided, Ø3.7 mm, long, stainless steel
066.1706	E 066.1706 94.2	VeloDrill™, guided, Ø4.2 mm, long, stainless steel
066.1707	E 066:1707 p4.7	VeloDrill™, guided, Ø4.7 mm, long, stainless steel

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Art. No.	Picture	Article				
B Module	B Module					
066.4403	E 60++990 X18	BLX/BLC Guided Implant Driver, for handpiece, stainless steel				
066.4404		BLX/BLC Guided Implant Driver, for ratchet, stainless steel				
037.3000	571	TLX/TLC Guided Implant Driver, for ratchet, for TLX S, stainless steel				
037.3001	Σ 100€′2€0 S.XII	TLX/TLC Guided Implant Driver, for handpiece, for TLX S, stainless steel				
037.3002	days.	TLX/TLC Guided Implant Driver, for ratchet, for TLX SP, stainless steel				
037.3003	E 5006.760 32 XI	TLX/TLC Guided Implant Driver, for handpiece, for TLX SP, stainless steel				
C Module						
041.772	The second second	Straumann® ModularCassette, C Module, Guided Surgery				
026.0147	022	Drill Handle, Ø 2.2 mm, 1 mm/3 mm stop, stainless steel				
026.0148	02.8	Drill Handle, Ø 2.8 mm, 1 mm/3 mm stop, stainless steel				
026.0149	03.2	Drill Handle, Ø 3.2 mm, 1 mm/3 mm stop, stainless steel				
026.0150	03.5	Drill Handle, Ø 3.5 mm, 1 mm/3 mm stop, stainless steel				
026.0151	03.7	Drill Handle, Ø 3.7 mm, 1 mm/3 mm stop, stainless steel				
026.0152	042	Drill Handle, Ø 4.2 mm, 1 mm/3 mm stop, stainless steel				
034.284	E 034.284 ø1.3	Drill for Template Fixation Pin, Ø 1.3 mm				
034.282	_034.282	Template Fixation Pin, Ø 1.3 mm				
034.298		Template Fixation Pin, Ø 2.8/2.8 mm, guided				
034.285		Template Fixation Pin, Ø 5/2.8 mm, guided, stainless steel				
034.286		Template Fixation Pin, Ø 5/3.2 mm, guided, stainless steel				
034.287		Template Fixation Pin, Ø 5/3.5 mm, guided, stainless steel				
034.288		Template Fixation Pin, Ø 5/3.7 mm guided, stainless steel				
034.289		Template Fixation Pin, Ø 5/4.2 mm, guided, stainless steel				
036.3300	TLX RT	RT Profile Drill, short, for implants Ø 3.75/Ø 4.8 mm, stainless steel (TLX only)				
036.3301	E TLYTICRT	RT Profile Drill, long, for implants Ø 3.75/Ø 4.8 mm, stainless steel (TLX/TLC)				
036.3302	er TLX WI	WT Profile Drill, short, for implants Ø 5.5/Ø 6.5 mm, stainless steel (TLX only)				
036.3303	E TLVTLCWT	WT Profile Drill, long, for implants Ø 5.5/Ø 6.5 mm, stainless steel (TLX/TLC)				

 $\label{lem:make} \mbox{Make sure that the right combination of sleeves and Drill handles is selected.}$ 

For more information go to Chapter 3.1.5 *Drill Handle* on page 20.

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# **NOTES**

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