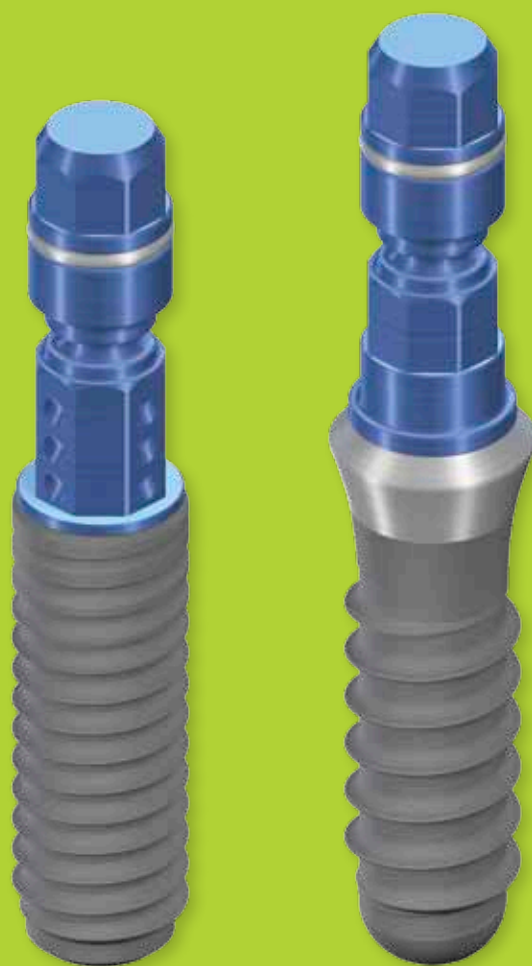


Surgical procedures for  
Straumann® implants with  
Loxim™ transfer piece.



## ABOUT THIS BROCHURE

The brochure *Surgical Procedures for Straumann® Implants* provides dental practitioners and related specialists with information about the implant and its surgical procedure. For further information, please refer to the main surgical brochure: *Basic Information on the Surgical Procedure – Straumann® Dental Implant System*.

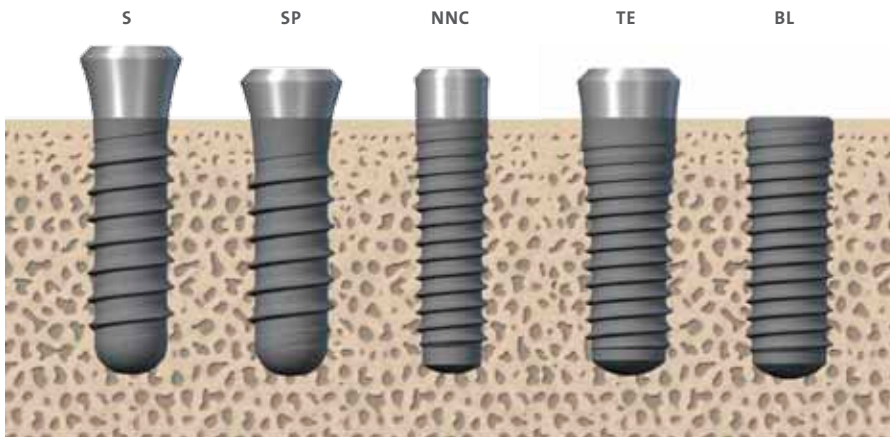
The brochure is divided into the following main parts:

- Straumann Implants
- Indications and contraindications
- Preoperative planning
- Surgical procedures
- Overview of implants

For further information about the NNC prosthetic procedure, please refer to the following brochure: *Prosthetic Procedures for the Narrow Neck CrossFit® Implant*.

# Straumann® implants overview.

Straumann Implants offer two implant lines with diverse body and neck designs, ranging from the classic Soft Tissue Level to the Bone Level Implant and some additional hybrid solutions. All implants can be placed with the Straumann Surgical cassette while using very similar surgical procedures.



**S** Straumann Standard Implant  
**SP** Straumann Standard Plus Implant  
**NNC** Straumann Standard Plus Narrow Neck  
 CrossFit® Implant only available in  
 Roxolid® SLActive®  
**TE** Straumann Tapered Effect Implant  
**BL** Straumann Bone Level Implant

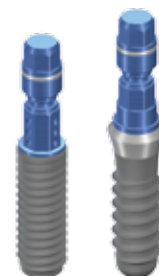
Straumann dental implants are available in three endosteal diameters: Ø 3.3 mm, Ø 4.1 mm, and Ø 4.8 mm. A unified color code simplifies the identification of instruments and implants.

## Color coding

● yellow	Endosteal implant diameter 3.3 mm
● red	Endosteal implant diameter 4.1 mm
● green	Endosteal implant diameter 4.8 mm

## LOXIM™ TRANSFER PIECE

Straumann Roxolid Implants and Straumann titanium SLA Implants are delivered with the Loxim, which is not screw-retained, but connected to the implant with a snap-in mounting. After insertion of the implant, the Loxim can be released by hand or with the help of tweezers. Counter-maneuvering with the Straumann Holding Key is no longer needed. Loxim can be used as an alignment pin to indicate the implant position and angulation for a parallel placement of the neighboring implants.



# Surgical procedure.

## INDICATIONS AND CONTRAINDICATIONS

To obtain more information about indications or contraindications related to each implant, please refer to the corresponding instructions for use.

## IMPLANT-BED PREPARATION

The implant diameter, implant type, position and number of implants should be selected individually taking the anatomy and spatial circumstances into account. The specific measurements should be regarded as minimum guidelines and are further specified in the brochure: *Basic Information on the Surgical Procedure – Straumann® Dental Implant System*.

STEPS	INSTRUMENTATION
<b>1. Basic implant-bed preparation</b>	
Ridge preparation	Round bur (for all implants)
Twist drilling	Pilot drill 1 (2.2 mm) Alignment pin Pilot drill 2 (2.8 mm) Depth gauge
<b>2. Fine implant-bed preparation</b>	
Profile drilling	SP profile drill      BL/NNC profile drill TE profile drill
Tapping	S/SP Tap      BL/TE/NNC Tap

**Basic implant-bed preparation** involves ridge preparation and twist drilling. For twist drilling, the endosteal diameter of the implant (3.3/4.1/4.8 mm) – not the implant type or the bone class – determines which instruments have to be used.

**Fine implant-bed preparation** involves profile drilling and tapping. For tapping, the implant type (S/SP/TE/BL) and the bone class determine which instruments have to be used, with exception of the NNC that requires a BL tap.

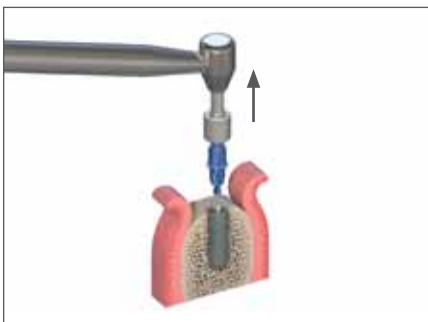
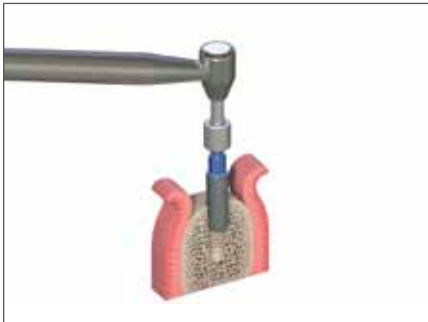
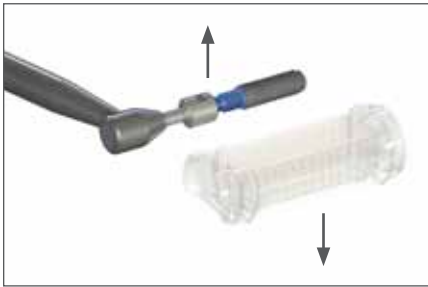
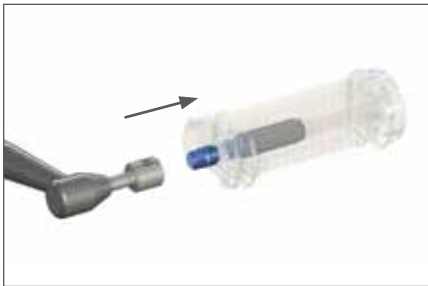
### Please note

The Narrow Neck CrossFit® Implant has a Standard Plus design, but requires Bone Level tapping.

All Straumann dental implants are placed using one instrument kit – the Straumann Surgical cassette.

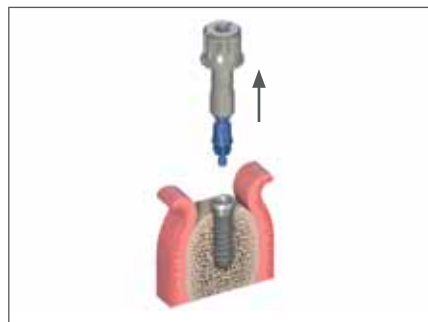
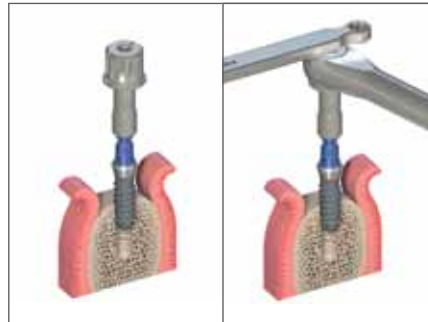
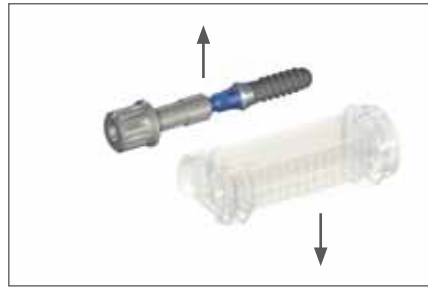
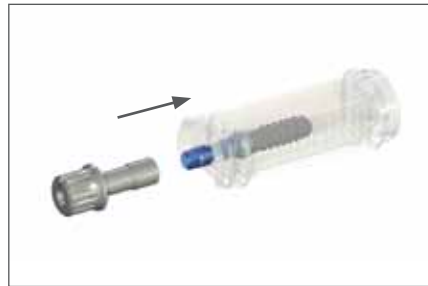
## IMPLANT PLACEMENT

### Implant placement with handpiece



After insertion, the Loxim is detached with the adapter.

### Implant placement with ratchet



Remove the ratchet while holding the adapter at the bottom, and then detach the adapter-transfer piece assembly.

#### Step 1 – Attach the adapter

Hold the enclosed part of the implant carrier. Attach the handpiece or the ratchet adapter to the Loxim™. A click will be heard when the adapter is attached correctly.

#### Step 2 – Remove the implant from the carrier

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

#### Step 3 – Place the implant

Place the implant with the handpiece or the ratchet into the implant bed. Move the implant into its final position with a maximum of 15 rpm turning it clockwise.

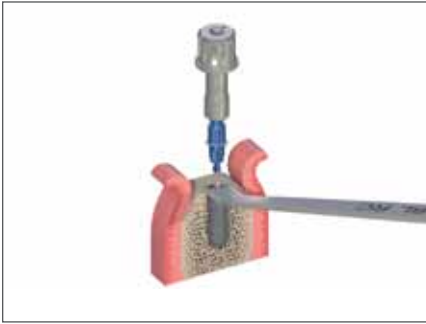
#### ⚠ Caution

Vertical position corrections using reverse rotations (counterclockwise) may lead to a decrease in primary stability.

#### Step 4 – Remove the instruments

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

## ADDITIONAL INFORMATION



### Release aid for the Loxim™ Transfer piece

For situations in which any removal force is to be avoided, a release aid for the Loxim can be used. Place the release aid onto the implant shoulder and hold it in place while detaching the adapter with the Loxim.

### Important additional information

An insertion torque of 35Ncm is recommended. If 35Ncm are achieved before the implant has reached its final position, make sure the implant-bed preparation is correct to avoid bone overcompression.

### ⚠ Warning

In case the implant has to be removed after implant placement, the retention of the Loxim in the implant may be reduced. Always secure the implant against aspiration when removing the implant.



The Loxim 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 breaks during implant insertion, one part remains in the adapter and the other part in the implant. Both parts can be removed with tweezers.



To extract the implant after the pre-determined breaking point broke, simply take out the broken part of the Loxim from the adapter and re-insert the adapter on the Loxim part remaining in the implant. Counterclockwise turns will remove the implant.

The part of the Loxim below the pre-determined breaking point is not secured in the adapter and, additionally, needs to be secured against aspiration when taking out the implant.



### ⚠ Caution

The broken part of the Loxim no longer protects against high torque. Therefore, it is not to be used to advance the placement of the implant.



# Overview of release aids and implants.

## RELEASE AIDS

<p>Release aid N for Loxim™ (for NNC and NC)</p>	 <p>The image shows a long, tapered, grey release aid with a curved end. It features the Straumann logo and the number 026.2558 on the left side, and a large letter 'N' in the center.</p>
<p>026.2558</p>	
<p>Release aid R/W for Loxim (for RC, RN and WN)</p>	 <p>The image shows a long, tapered, grey release aid with a curved end. It features the Straumann logo and the number 026.4558 on the left side, and the letters 'R/W' in the center.</p>
<p>026.4558</p>	

Release Aids are recommended for situations, such as extraction sockets, immediate implants and very soft bone, where any removal force is to be avoided.

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