

Restoring Straumann® implants  
with LOCATOR® abutments.





Straumann is the industrial partner of the ITI (International Team for Implantology) in the areas of research, development, and education.

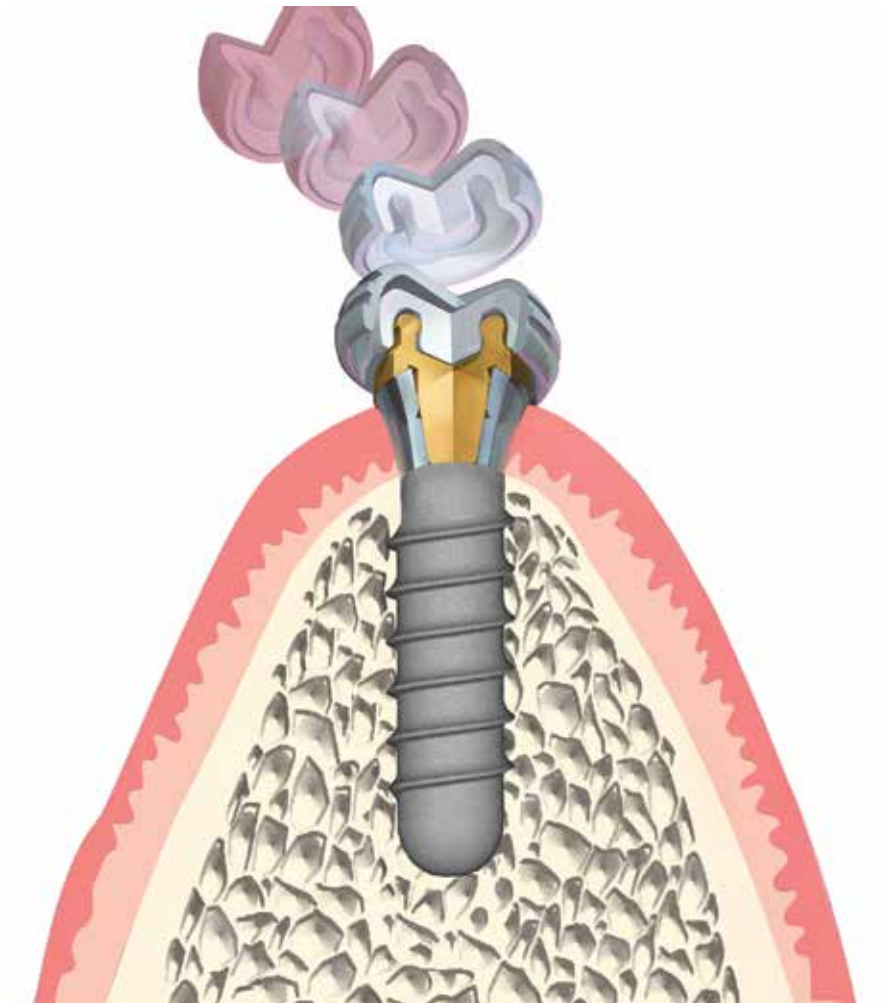
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# Product description.

- The self-locating design of the LOCATOR® allows patients to easily seat their dentures
- The LOCATOR® male components are easily placed and removed with the LOCATOR® core tool
- Up to 40° divergence between two implants can be accommodated
- Restorations are possible even in cases of limited space due to the small vertical dimension
- Available for bone-level and tissue-level Straumann implant platforms



## Indications

The LOCATOR® Implant Attachment System is designed for use with dentures or partial dentures retained in whole or in part by endosseous implants in the mandible or maxilla.

## Contraindications

Not appropriate where a totally rigid connection is required. Use on a single implant with a divergence of more than 20° is not recommended.

# Full denture fabrication.

## CLINICAL PHOTOS COURTESY OF DR. ROBERT C. VOGEL

The restorative platform of the implant should be above the gingival crest, and the shortest LOCATOR® abutment providing a margin above the gingival crest should be utilized. The clinician may use the abutment retaining sleeve to carry the abutment to the mouth.



The margin of the LOCATOR® abutment should be positioned slightly above the height of the soft tissue.



Hand tighten the abutment with the LOCATOR® driver. Then torque the abutment to 35 Ncm using the Straumann ratchet with torque control device and LOCATOR® driver.



Place the impression copings on the LOCATOR® abutments for the final impression.



Take the final impression utilizing a border mold impression technique and place the female analogs into the impression copings.



# Full denture fabrication (continued).

Box and pour the master cast.



The processing male is fixed into the record base for maximum stability. The processed full denture incorporating the denture cap with the black processing male is ready for finishing.



Remove the black processing male from the finished full denture base with the male removal tool, and insert the replacement male of choice with the male seating tool.



Upon insertion, check for pressure spots and adjust the occlusion.





## Pick up with full denture reline or rebase.

The restorative platform of the implant should be above the gingival crest whenever possible. The clinician may use the abutment retaining sleeve to carry the abutment to the mouth.



Hand tighten the abutment with the driver. Then torque the abutment to 35 Ncm using the Straumann ratchet with torque control device and LOCATOR® driver.



Place the denture cap with black processing male onto the LOCATOR® abutments.



Adjust the denture base to seat passively in occlusion without touching the processing cap.



Apply impression adhesive to the internal aspect of the denture, and take a reline impression with the patient in occlusion utilizing a border mold impression technique.



## Pick up with full denture reline or rebase (continued).

Place the female analog into the black processing male, pour the master cast, and process the reline.



Box and pour the master cast.

**Note:** The black processing male must be secure on the female analog.



After processing the reline or rebase, remove the black processing male with the male removal tool, and insert the replacement male of your choice with the male seating tool.



Upon insertion, check for pressure spots and adjust the occlusion.





# Retrofit LOCATOR® to existing full denture.

CLINICAL PHOTOS COURTESY OF DR. ROBERT C. VOGEL

Insert the LOCATOR® abutments and torque to 35 Ncm.



Place the white block-out spacer over the head of the LOCATOR® abutment. Then insert a LOCATOR® denture cap with black processing male into each LOCATOR® abutment, leaving the white block-out spacer beneath it.



Prepare the denture base to accommodate the protruding LOCATOR® processing cap.

**Important:** There must be **NO** contact between the denture and the processing cap prior to the curing process.



# Retrofit LOCATOR® to existing full denture (continued).

## COLD CURING THE PROCESSING MALE

Use a lightcure acrylic resin or mix a permanent self-curing acrylic to bond the processing cap in the denture.

Apply a small amount of acrylic resin to the recess of the denture base and around the processing cap. Insert the denture into the oral cavity. Once the denture is properly positioned, maintain the patient in full occlusion while the acrylic sets. It is important to maintain the denture in full contact with the underlying soft tissue during the set.

**Note:** If the white block out spacer does not completely block out any undercuts it is important to use a suitable block out material to prevent acrylic from flowing into these areas.

Once the acrylic has cured, remove the denture and discard the white block-out spacers. Remove any excess acrylic and finish the denture base before changing to the final replacement male. Remove the black processing male from the metal processing cap with the male removal tool.

**Note:** LOCATOR®, extra-light retention, extended range, 0 lbs males cannot be removed with the LOCATOR® Core Tool. To remove the LOCATOR®, extra-light retention, extended range, 0 lbs males use a sharp knife. Removal of the LOCATOR®, extra-light retention, extended range, 0 lbs males with a sharp knife will require new retention inserts to be utilized.

Use the male seating tool to insert a LOCATOR® replacement male into the empty metal processing cap. The denture is ready for delivery to the patient.



# Determining the angulation of LOCATOR® abutments.

Snap the LOCATOR® parallel post on to the LOCATOR® abutment. Use the angle measurement guide behind the parallel post to determine the angulation of the implant.

**Choose the appropriate nylon LOCATOR® replacement male according to the angulation measured and the desired retention.**

**Caution:** For the safety of the patient, tie dental floss through the hole of the angle measurement guide to prevent aspiration.



**LOCATOR® parallel post**  
(048.199V4)



**LOCATOR® angle measurement guide**  
(048.200)

## SELECTION OF THE RETENTIVE NYLON INSERTS

The LOCATOR® retentive nylon inserts can be used to restore an implant with up to 10° of divergence (20° between implants). Use of multiple LOCATOR® abutments may necessitate the use of less retentive inserts such as the 3.0 lbs (light retention) pink-colored retentive nylon insert (048.191V4) or 1.5 lbs (extra light retention) blue-colored retentive nylon insert (048.192V4) for easier removal of the prosthesis by the patient.

The LOCATOR® extended range replacement males can accommodate a divergent implant between 10° and 20° (40° between implants). The LOCATOR® extended range replacement male (green, 048.193V4) offers more retention for divergent implants (3.0–4.0 lbs). The retentive holding force is dependent upon the degree of angulation. The extra light retention extended retentive nylon insert (grey, 048.181V4) provides the least retention possible (0 lbs).

## LOCATOR® CORE TOOL




**LOCATOR® core tool**  
(046.415) assembled



**LOCATOR® core tool**  
(046.415) disassembled

\*The LOCATOR® abutment driver is not needed for Straumann implants. The LOCATOR® driver (046.416 or 046.417) should be used instead. See page 14 for more information.

## Regular Neck Ø 4.8 mm.

Article Number	Article	Dimensions	Material	
LOCATOR® abutments				
048.175		RN LOCATOR® abutment	height 1.0 mm	titanium alloy/TiN*
048.176		RN LOCATOR® abutment	height 2.0 mm	titanium alloy/TiN*
048.177		RN LOCATOR® abutment	height 3.0 mm	titanium alloy/TiN*
048.178		RN LOCATOR® abutment	height 4.0 mm	titanium alloy/TiN*
048.179		RN LOCATOR® abutment	height 5.0 mm	titanium alloy/TiN*
048.18		RN LOCATOR® abutment	height 6.0 mm	titanium alloy/TiN*


RN = Regular Neck

\* = Titanium nitride coated

### Important

RN components can only be used with **Straumann® Standard, Standard Plus and Tapered Effect implants with a Regular Neck (Ø 4.8 mm).**

## Wide Neck Ø 6.5 mm.

Article Number	Article	Dimensions	Material	
LOCATOR® abutments				
048.183		WN LOCATOR® abutment	height 1.0 mm	titanium alloy/TiN*
048.184		WN LOCATOR® abutment	height 2.0 mm	titanium alloy/TiN*
048.185		WN LOCATOR® abutment	height 3.0 mm	titanium alloy/TiN*
048.186		WN LOCATOR® abutment	height 4.0 mm	titanium alloy/TiN*
048.187		WN LOCATOR® abutment	height 5.0 mm	titanium alloy/TiN*


WN = Wide Neck

\* = Titanium nitride coated

### Important

WN components can be used only with **Straumann® Standard, Standard Plus and Tapered Effect implants with a Wide Neck (Ø 6.5 mm).**

## Narrow CrossFit® Connection.

Article Number	Article	Dimensions	Material	
LOCATOR® abutments				
022.2502		NC LOCATOR® abutment	height 2.0 mm	titanium alloy/TiN*
022.2503		NC LOCATOR® abutment	height 3.0 mm	titanium alloy/TiN*
022.2504		NC LOCATOR® abutment	height 4.0 mm	titanium alloy/TiN*
022.2505		NC LOCATOR® abutment	height 5.0 mm	titanium alloy/TiN*
022.2506		NC LOCATOR® abutment	height 6.0 mm	titanium alloy/TiN*

NC = Narrow CrossFit®


\* = Titanium nitride coated

All final abutments are torqued into the implant at **35 Ncm**.

### Important

NC prosthetic components can only be used with **Straumann® Bone Level implants, Narrow CrossFit (Ø 3.3 mm)**.

## Hybrid Dentures, Regular CrossFit® Connection.

Article Number	Article	Dimensions	Material	
LOCATOR® abutments				
022.4501		RC LOCATOR® abutment	height 1.0 mm	titanium alloy/TiN*
022.4502		RC LOCATOR® abutment	height 2.0 mm	titanium alloy/TiN*
022.4503		RC LOCATOR® abutment	height 3.0 mm	titanium alloy/TiN*
022.4504		RC LOCATOR® abutment	height 4.0 mm	titanium alloy/TiN*
022.4505		RC LOCATOR® abutment	height 5.0 mm	titanium alloy/TiN*
022.4506		RC LOCATOR® abutment	height 6.0 mm	titanium alloy/TiN*

RC = Regular CrossFit®


\* = Titanium nitride coated

All final abutments are torqued into the implant at **35 Ncm**.

### Important

RC prosthetic components can only be used with **Straumann® Bone Level implants, Regular CrossFit (Ø 4.1 and Ø 4.8 mm)**.

# Narrow Neck CrossFit® Connection.

Article Number	Article	Dimensions	Material	
LOCATOR® abutments				
048.581		NNC LOCATOR® abutment	height 1.0 mm	titanium alloy/TiN*
048.582		NNC LOCATOR® abutment	height 2.0 mm	titanium alloy/TiN*
048.583		NNC LOCATOR® abutment	height 3.0 mm	titanium alloy/TiN*
048.584		NNC LOCATOR® abutment	height 4.0 mm	titanium alloy/TiN*
048.585		NNC LOCATOR® abutment	height 5.0 mm	titanium alloy/TiN*
048.586		NNC LOCATOR® abutment	height 6.0 mm	titanium alloy/TiN*

NNC = Narrow Neck CrossFit®

\* = Titanium nitride coated



All final abutments are torqued into the implant at **35 Ncm**.

## Important

NNC prosthetic components can only be used with **Straumann® Bone Level implants, Narrow Neck CrossFit (Ø 3.3 mm)**.



# LOCATOR® Components.

Article Number	Article	Dimensions	Material
<b>LOCATOR® abutments</b>			
048.189V2		LOCATOR® male processing package, contents: denture cap (Ø 5.5 mm, height 2.5 mm) with black processing male (height 1.9 mm), block-out spacer (048.196), white replacement male (048.190), pink replacement male (048.191), blue replacement male (048.192)	titanium/nylon
048.190V4		LOCATOR® replacement male, white, 0°–10°, 5 lbs, 2.27 kg**	height 1.7 mm nylon
048.191V4		LOCATOR® replacement male, pink, light retention, 0°–10°, 3 lbs, 1.36 kg**	height 1.7 mm nylon
048.192V4		LOCATOR® replacement male, blue, extra-light retention, 0°–10°, 1.5 lbs, 0.68 kg**	height 1.7 mm nylon
048.182V2		LOCATOR® male processing package, extended range, contents: denture cap (Ø 5.5 mm, height 2.5 mm) with black processing male (height 1.9 mm), block-out spacer (048.196), green replacement male (048.193), orange replacement male (048.188), red replacement male (048.194)	titanium/nylon
048.193V4		LOCATOR® replacement male, green, extended range, 10°–20°, 3–4 lbs, 1.36–1.82 kg**	height 1.7 mm nylon
048.188V4		LOCATOR® replacement male, orange, light retention, extended range, 10°–20°, 2 lbs, 0.91 kg**	height 1.7 mm nylon
048.194V4		LOCATOR® replacement male, red, extra-light retention, extended range, 10°–20°, 0.5–1.5 lbs, 0.23–0.68 kg**	height 1.7 mm nylon
048.181V4		LOCATOR® replacement male, grey, extra-light retention, extended range, 0 lbs.	height 1.7 mm nylon
048.218V4		LOCATOR® processing spacer	POM
046.413V4		LOCATOR® abutment holder sleeve	PSU

V2 = Pack of 2

V4 = Pack of 4

\* = For the correction of angle divergences

\*\* = Retention force






## Important

RC prosthetic components can only be used with **Straumann® Bone Level implants, Regular CrossFit (Ø 4.1 and Ø 4.8 mm).**







# LOCATOR® Components.

Article Number	Article	Dimensions	Material
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## LOCATOR® abutments

025.0120-04		BL LOCATOR® female analog	length 10.0 mm, diameter 4.0 mm	aluminum
048.198V4		TL LOCATOR® female analog	length 10.0 mm, diameter 5.0 mm	aluminum
048.197V4		LOCATOR® impression coping	height 4.0 mm	aluminum housing with LDPE insert
048.196V20		LOCATOR® block-out spacer	thickness 0.4 mm	Teflon®
048.195V4		LOCATOR® black processing male	height 1.9 mm	LDPE

## Auxiliary parts

046.415		LOCATOR® core tool	length 100.0 mm	stainless steel
046.416		LOCATOR® driver, short, for ratchet	length 15.0 mm	stainless steel
046.417		LOCATOR® driver, long, for ratchet	length 21.0 mm	stainless steel
048.199V4		LOCATOR® parallel post	length 8.0 mm	LDPE
048.200		LOCATOR® angle measurement guide	length 5.0 mm, width 15.0 mm	stainless steel
046.414		LOCATOR® core tool tip		

LOCATOR® is a registered trademark of Zest Anchors, Inc., USA.

Straumann is the sole worldwide distributor of LOCATOR® abutments for the Straumann® Dental Implant System.

Teflon® is a registered trademark of E. I. du Pont de Nemours and Company.

### Manufacturer

Zest Anchors, LLC.  
Escondido, CA 92029  
USA

### Distributor

Institut Straumann AG  
4002 Basel  
Switzerland

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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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