



## Straumann® PUREloc Retentive System for Hybrid Dentures

# Basic Information

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# 1. The Straumann® PUREloc Retentive System for hybrid dentures

The Straumann® PUREloc Retentive System for hybrid dentures offers an innovative and highly esthetic ceramic edentulous solution for the two-piece PURE Ceramic Implant. The Straumann® PUREloc Abutment is only suitable for the two-piece PURE Ceramic Implant, however, it shares some of the Tools and Auxillaries with the Novaloc® portfolio. The straight Straumann® PUREloc abutments are available in various abutment heights, covering a broad range of clinical situations. Together with its durable PEEK<sup>1</sup> matrices, the Straumann® PUREloc Retentive System provides a unique and long-lasting attachment performance.

## 1.1 Straumann® PUREloc Retentive System at a glance

- 1 – PEEK matrix inserts offering excellent chemical and physical properties
  - Matrix accommodates up to 40° prosthetic divergence between two abutments
  - 6 retention strengths offer optimal adjustment of the denture retention
  - Matrix Housing available in titanium, or color-neutral PEEK for a more aesthetic outcome
- 2 – Ceramic abutment offers a highly esthetic, smooth surface and ultimate hardness
  - for excellent esthetics and wear resistance
- 3 – Compatible to the standard SCS Screw-driver
  - self-retaining system preventing aspiration
  - Small stud hole prevents food accumulation
- 4 – Available in 6 abutment heights: 1 to 6 mm
- 5 – Laser-marked abutment height and implant platform
  - Rely on the original implant-abutment connection
    - Perfectly matching components
    - Excellent service and support



Straumann® PUREloc Abutment, straight

<sup>1</sup> Polyether ether ketone

## 2. Creating a new overdenture with the Straumann® PUREloc Retentive System

### 2.1 Procedure in the dental office

#### 2.1.1 Selecting Straumann® PUREloc Abutment height



##### Step 1 – Selecting the abutment

- Ensure that the implant shoulder is not covered by hard or soft tissue
- Determine the appropriate abutment height by counting the marks on the Straumann® PUREloc Plan Abutment.



##### Step 2 – Inserting the Abutment

- Screw the Straumann® PUREloc Abutment tightly by hand into the implant using the Straumann® Screwdriver.
- Torque the abutment to 35 Ncm using the Ratchet, the Torque Control Device and the SCS Screwdriver.



##### Step 3 – Sealing the screw channel of the Straumann® PUREloc Abutment

- Use Teflon and composite in order to seal the screw channel of the Straumann® PUREloc Abutment. Ensure that the composite is planar to the abutment.

##### Note:

A uniform horizontal height of all Straumann® PUREloc Abutments makes it easier for the patient to insert the prosthesis.

### 2.1.2 Impression taking – abutment-level



#### Step 1 – Placing the Forming/Fixing Matrix

- Place the Novaloc® Forming/Fixing Matrix on the Straumann® PUREloc Abutment.

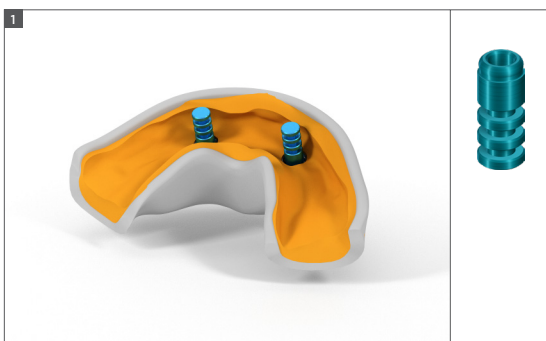


#### Step 2 – Impression taking

- Use the mucodynamic technique for impression taking (vinyl polysiloxane or polyether rubber).
- Send the impression to the dental lab.

## 2.2 Procedure in the dental lab

### 2.2.1 Master cast – abutment-level impression



#### Step 1 – Inserting the Novaloc® Model Analog

- Insert the straight Novaloc® Model Analog into the Novaloc® Forming/Fixing Matrix (see chapter 3).



#### Step 2 – Fabricating the master cast

- Pour a master model using standard methods and type-4 dental stone (DIN 6873).

#### Note:

The master model can also be created with an implant-level impression.

### 2.2.2 Finalizing the new Straumann® PUREloc overdenture



#### Step 1 – Placing the Mounting Collar and Matrix Housing

- Place white Novaloc® Mounting collars on all Novaloc® Model Analogs.
- Place the Novaloc® Matrix Housing incl. preassembled Mounting Insert onto the Straumann® PUREloc Abutments.

#### Note:

For a chair-side polymerization of the Novaloc® Matrix Housing use the Novaloc® Processing Spacer to create the space needed.

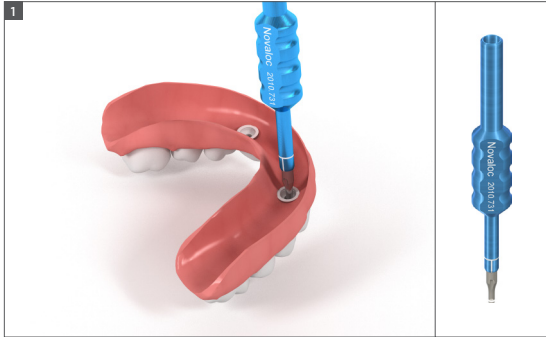


#### Step 2 – Processing the overdenture

- Process the overdenture according to standard procedures.
- The dental lab will return the finalized Straumann® PUREloc overdenture to the dental office including the Mounting Inserts in place.

## 2.3 Procedure in the dental office

### 2.3.1 Seating the new Straumann® PUREloc overdenture



#### Step 1 – Removing the Mounting Insert

- Remove all Novaloc® Mounting Inserts from the Novaloc® Matrix Housing using the Demounting Tool for Mounting Inserts (blue) (see chapter 3).



#### Step 2 – Selecting and inserting the Retention Inserts

- Select the appropriate Novaloc® Retention Insert (see chapter 4).
- Insert the Novaloc® Retention Inserts to the Matrix Housing using the Mounting and Demounting Tool for Retention Inserts (brown) (see chapter 3).



#### Step 3 – Seating the finished overdenture

- Seat the finished overdenture and check the occlusion.

## 3. Using Novaloc® Tools for the Straumann® PUREloc Abutment

### 3.1 Novaloc® Matrix Housing Extractor (Fig. 1)

Removing the Novaloc® Matrix Housing from an overdenture

1. Heat the Novaloc® Matrix Housing Extractor head (Fig. 2).
2. Apply the hot Novaloc® Matrix Housing Extractor to the Matrix Housing and let the heat transfer for 2–3 seconds melting the resin around the Matrix Housing.
3. Tilt the Novaloc® Matrix Housing Extractor to the opposite side of the beak-shape end in order to remove the Novaloc® Matrix Housing (Fig. 3).

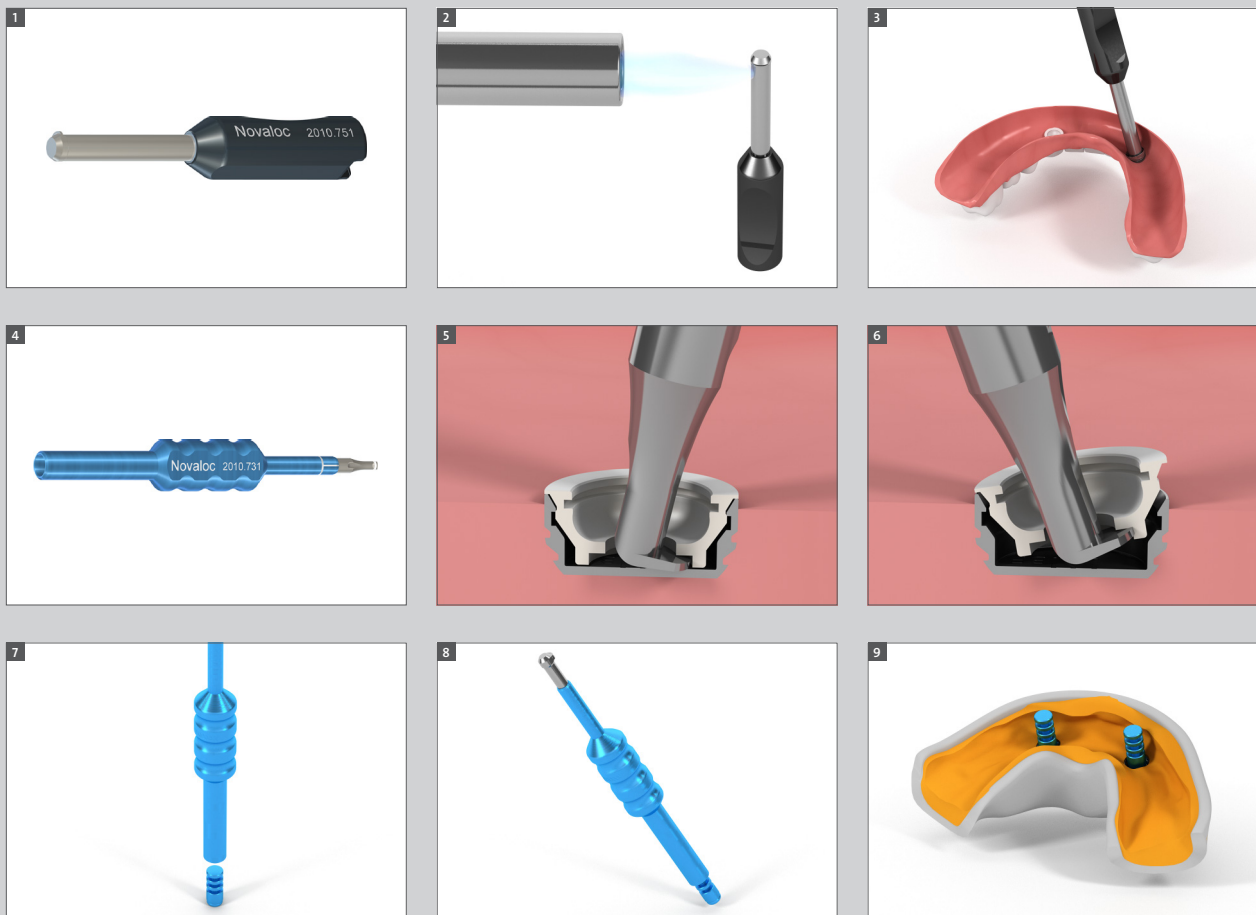
### 3.2 Novaloc® Demounting Tool for Mounting Inserts and Model Analog Reposition Aid (Fig. 4)

Removing the Novaloc® Mounting Insert

1. Insert the toe of the Novaloc® Demounting Tool into the Novaloc® Mounting Insert (Fig. 5).
2. Tip the Novaloc® Demounting Tool to the opposite side of the foot-shaped end and remove the Novaloc® Mounting Insert from the Novaloc® Matrix Housing (Fig. 6).

Placing the Novaloc® Model Analog

1. Pick up the Novaloc® Model Analog with the opposite side of the Novaloc® Demounting Tool (Fig. 7/8).
2. Position the Novaloc® Model Analog in the impression (Fig. 9).





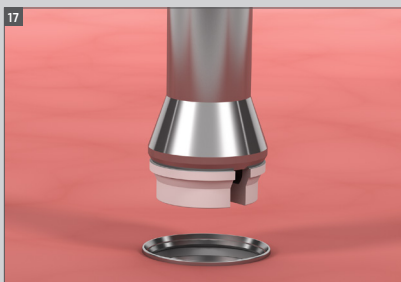
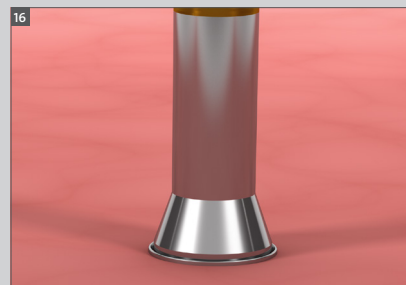
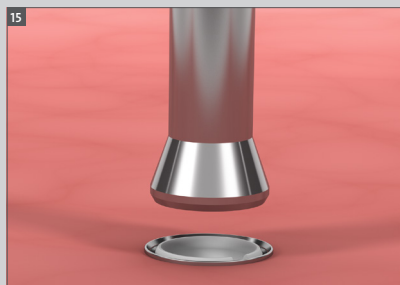
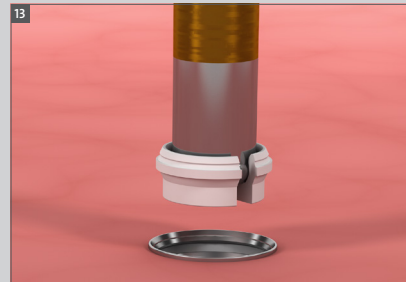
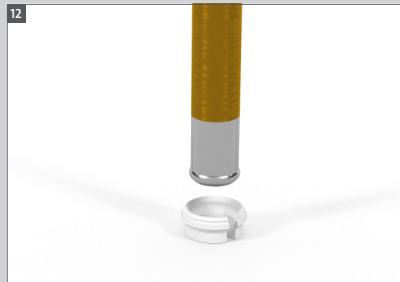
### 3.3 Novaloc® Mounting and Demounting Tool for Retention Inserts (Fig. 11)

#### Mounting the Novaloc® Retention Insert

1. Pick up the Novaloc® Retention Insert with the gripper end of the Novaloc® Mounting and Demounting Tool.  
The Novaloc® Retention Insert will lock on to the tool (Fig. 12).
2. Place the Novaloc® Retention Insert into the Novaloc® Matrix Housing (Fig. 13). The Novaloc® Retention Insert “clicks” into position (Fig. 14).

#### Demounting the Novaloc® Retention Insert

1. Apply the plunger end of the Novaloc® Mounting and Demounting Tool to the Novaloc® Retention Insert and engage with light pressure (Fig. 15/16).
2. Remove the Novaloc® Retention Insert from the Novaloc® Matrix Housing using a slight rotational movement (Fig. 17).
3. Use the special indentation in the handle of the Novaloc® Matrix Housing Extractor (Fig. 1) to remove the Novaloc® Retention Insert from the Novaloc® Mounting and Demounting Tool with a tilting movement (Fig. 18/19).



## 4. Special featured Novaloc® Components for the Straumann® PUREloc System



### Novaloc® Retention Inserts

The matrix system allows for a prosthetic insertion of up to  $\pm 20^\circ$  divergence, meaning  $40^\circ$  between two Straumann® PUREloc Abutments.

#### Note:

It is recommended to use the light retention force first (white). In case it feels too loose for the patient, exchange with inserts with a higher retention force.



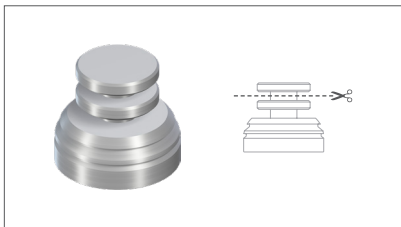
### Novaloc® Mounting Collar

The Mounting Collar blocks out the area surrounding the abutment, preventing resin or bonding agents from flowing into the Matrix Housing and imbedding the abutment.



### Novaloc® Matrix Housing, PEEK

The neutral-colored PEEK Matrix Housing is used for extremely labial or buccal implant positions preventing grey irritation coming from a titanium Matrix Housing.



### Novaloc® Matrix Housing with attachment option

This Matrix Housing offers an extended attachment option. It is used for low-lying abutment heights or in situations requiring more retention. The attachment may be shortened according to the required height.



### Novaloc® Mounting Insert

The Mounting Insert protects the interior of the Matrix Housing and keeps it in place during processing. Furthermore, it also prevents any resin or bonding agents from entering into the Matrix Housing during fixation.




### Novaloc® Processing Spacer


The Processing Spacer is a placeholder for the Matrix Housing. It is used for the model-cast, cast metal-reinforced denture or if the Matrix Housing shall be polymerized into the overdenture chair-side.

## 5. Product reference list

### Straumann® PUREloc, straight, 0°\*

	Art. No.	Description	Abutment height	Material
	032.089	CI RD Straumann® PUREloc, 0°	1 mm	ZrO2/Ti
	032.090	CI RD Straumann® PUREloc, 0°	2 mm	ZrO2/Ti
	032.091	CI RD Straumann® PUREloc, 0°	3 mm	ZrO2/Ti
	032.092	CI RD Straumann® PUREloc, 0°	4 mm	ZrO2/Ti
	032.093	CI RD Straumann® PUREloc, 0°	5 mm	ZrO2/Ti
	032.094	CI RD Straumann® PUREloc, 0°	6 mm	ZrO2/Ti

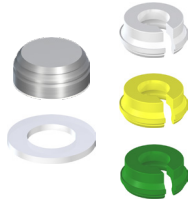







### Straumann® PUREloc Plan Abutment, straight, 0°

	Art. No.	Description
	032.095V4	CI RD Straumann® PUREloc Plan Abutment, H 1-6 mm, POM

\* Manufacturer  
 Institut Straumann AG  
 Peter Merian-Weg 12, 4002 Basel  
 Switzerland

Not all products are available in all countries.

## Retention Inserts\*


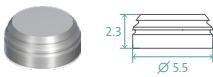
	Art. No.	Description	Material	Retention	Quantity
	2010.601-STM	<b>Processing Package titanium</b>			
		Titanium Matrix Housing (including Mounting Insert)			2 pcs
		Retention Insert, white, light			2 pcs
		Retention Insert, yellow, medium			2 pcs
		Retention Insert, green, strong			2 pcs
		Mounting Collar, silicone			2 pcs
	2010.611-STM	<b>Processing Package PEEK</b>			
		PEEK Matrix Housing (including Mounting Insert)			2 pcs
		Retention Insert, white, light			2 pcs
		Retention Insert, yellow, medium			2 pcs
		Retention Insert, green, strong			2 pcs
		Mounting Collar, silicone			2 pcs
	2010.710-STM	Novaloc® Retention Insert, red	PEEK	Extra-light, approx. 300g	4 pcs
	2010.711-STM	Novaloc® Retention Insert, white	PEEK	Light, approx. 750g	4 pcs
	2010.712-STM	Novaloc® Retention Insert, yellow	PEEK	Medium, approx. 1200g	4 pcs
	2010.713-STM	Novaloc® Retention Insert, green	PEEK	Strong, approx. 1650g	4 pcs
	2010.714-STM	Novaloc® Retention Insert, blue	PEEK	Extra-strong, approx. 2100g	4 pcs
	2010.715-STM	Novaloc® Retention Insert, black	PEEK	Ultra-strong, approx. 2550g	4 pcs

CE 0473

\* Manufacturer  
Valoc AG  
Bahnhofsstrasse 64, 4313 Möhlin  
Switzerland

\* Distributor  
Institut Straumann AG  
Peter Merian-Weg 12, 4002 Basel  
Switzerland

# Auxiliaries\*

	Art. No.	Description	Material	Quantity
	2010.101-STM	<b>Equipment Box, incl. 3 tools</b>		1 pcs
		Demounting Tool for Mounting Insert and Model Analog Reposition Aid (blue)		
		Mounting and Demounting Tool for Retention Inserts (brown)		
		Matrix Housing Extractor (gray)		
	2010.731-STM	Demounting Tool for Mounting Inserts an Model Analog Reposition Aid (blue)	Aluminum/steel	1 pcs
	2010.741-STM	Mounting and Demounting Tool for Retention Inserts (brown)	Aluminum/steel	1 pcs
	2010.751-STM	Matrix Housing Extractor (gray)	Aluminum/steel	1 pcs
	2010.701-STM	Matrix Housing, titanium (including Mounting Insert)	Titanium / PEEK	4 pcs
	2010.702-STM	Matrix Housing, PEEK (including Mounting Insert)	PEEK	4 pcs
	2010.703-STM	Matrix Housing with attachment option (including Mounting Insert)	Titanium / PEEK	4 pcs
	2010.721-STM	Model Analog, blue	Aluminum	4 pcs
	2010.722-STM	Forming/Fixing Matrix, red	PEEK	4 pcs
	2010.723-STM	Processing Spacer, white	POM	4 pcs
	2010.724-STM	Mounting Collar	Silicone	10 pcs
	2010.725-STM	Mounting Insert	PEEK	4 pcs

CE 0473

\* Manufacturer  
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Bahnhofsstrasse 64, 4313 Möhlin  
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## Notes

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