Straumann® Novaloc® Retentive System for Hybrid Dentures

Basic Information

straumann

Contents

1. The Novaloc® Retentive System for hybrid dentures

The Straumann® Novaloc® Retentive System for hybrid dentures offers an innovative carbon-based abutment coating (ADLC[1]) with an excellent wear resistance, overcoming up to 60° implant divergence. Both the straight and 15° angled abutments are available in various abutment heights, covering a broad range of clinical implant situations. Together with its durable PEEK[2] matrices, the Novaloc® Retentive System provides a unique and long-lasting attachment performance.

1.1 Straumann® Novaloc® Retentive System at a glance

1 – PEEK[2] 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[2] for a more aesthetic outcome

2 – Carbon-based abutment coating (ADLC[1]) offering a smooth surface and ultimate hardness
→ for lasting wear resistance

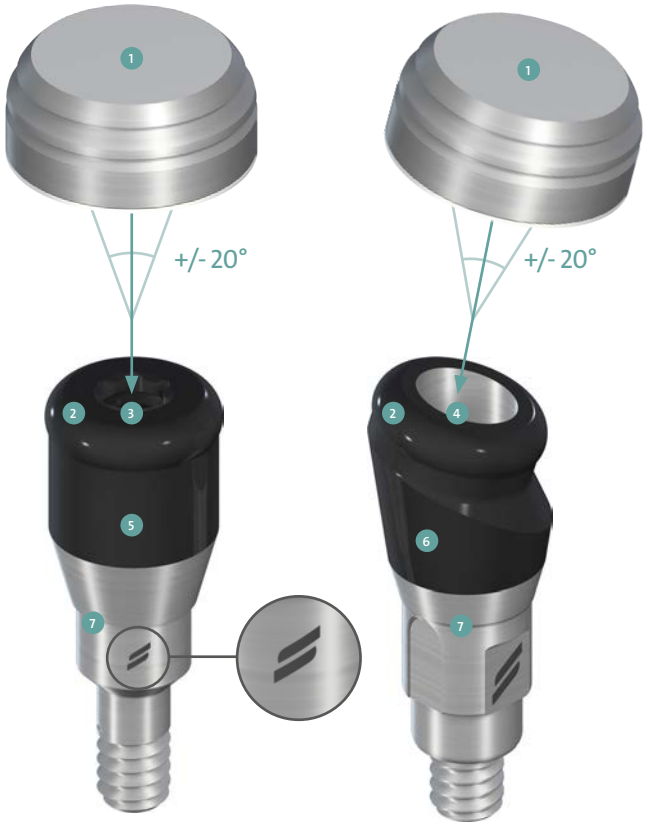
3 – Compatible to the standard SCS Screw-driver
→ self-retaining system preventing aspiration
→ Small stud hole prevents food accumulation

4 – Compatible to the standard SCS Screwdriver
→ self-retaining system preventing aspiration

5 – 6 abutment heights for Novaloc® straight abutment[3]

6 – 5 abutment heights for Novaloc® angled abutment[4]

7 – Laser-marked abutment height and implant platform
– Rely on the original implant-abutment connection
→ Perfectly matching components
→ Excellent service and support



Novaloc® Abutment, straight Novaloc® Abutment, 15° angled°

[1] Amorphous Diamond-Like Carbon
[2] Polyether ether ketone
[3] 1.5 to 6.5 mm for BLX 1 to 6 mm for all other systems
[4] 2.5 to 7.5 mm for BLX 2 to 6 mm for all other systems

2. Creating a new overdenture with the Novaloc® Retentive System

2.1 Procedure in the dental office

2.1.1 Selecting Novaloc® 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 Novaloc® Plan Abutments*.

Step 2 – Inserting the Abutment

- Screw the Novaloc® 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 Novaloc® Angled Abutment

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

Note:

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

* not available for RB/WB.

2.1.2 Impression taking – abutment-level

Step 1 – Placing the Novaloc® Forming/Fixing Matrix

- Place the Forming/Fixing Matrix on the Novaloc® 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 Novaloc® Model Analog into the Novaloc® Forming/Fixing Matrix (see chapter 3 Using the Novaloc® Tools). For straight abutments use the straight, for angled abutments the angled analog.

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 Novaloc® overdenture

Step 1 – Placing the Novaloc® Mounting Collar and Matrix Housing

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

Note:

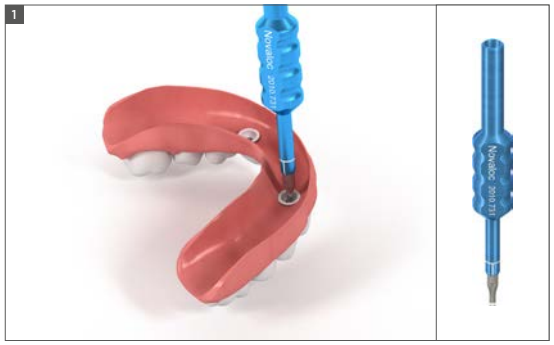
For a chair-side polymerization of the Novaloc® Matrix Housing use the Novaloc® Processing Spacer to create the space needed.

Step 2 – Processing the overdenture

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

2.3 Procedure in the dental office

2.3.1 Seating the new Novaloc® overdenture



Step 1 – Removing the Novaloc® Mounting Insert

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

Step 2 – Selecting and inserting the Novaloc® Retention Inserts

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

Step 3 – Seating the finished overdenture

- Seat the finished overdenture and check the occlusion.

3. Using the Novaloc® Tools

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).

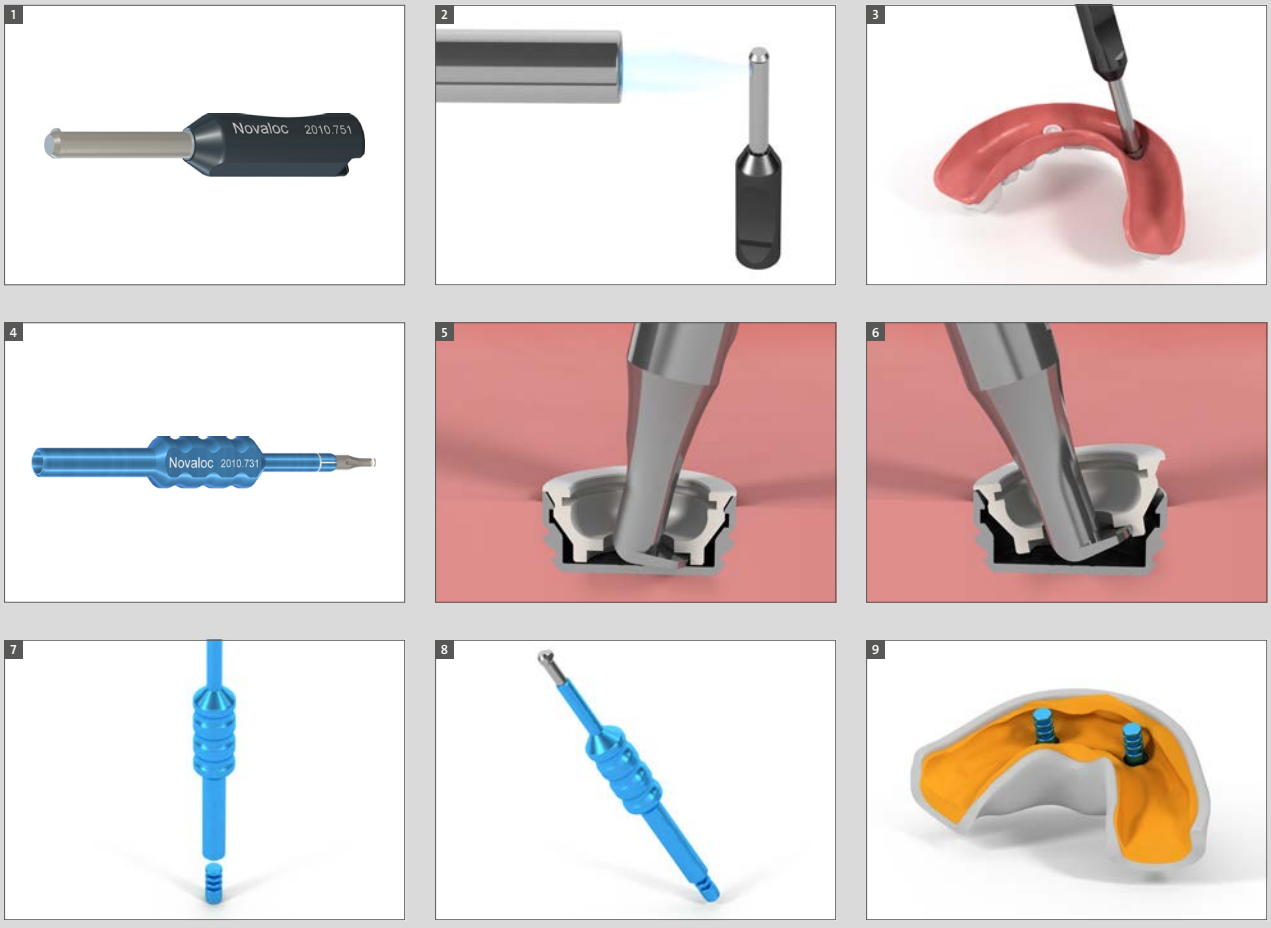
3.2 Novaloc® Demounting Tool for Mounting Inserts and Model Analog Reposition Aid (Fig. 4)

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).



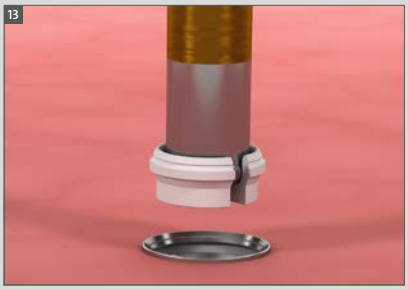
3.3 Novaloc® Mounting and Demounting Tool for Retention Inserts (Fig. 11)

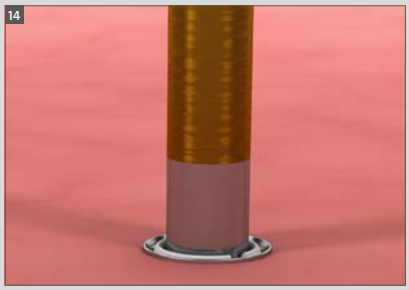
Mounting the Novaloc® Retention Insert

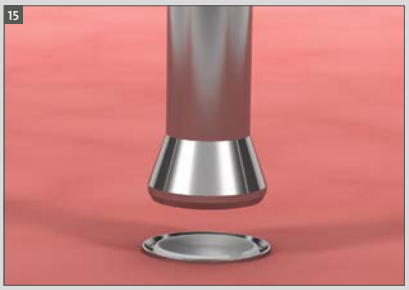
1. Pick up the Novaloc® Retention Insert with the gripper end of the Novaloc® Mounting and Demounting Tool. The Novaloc® Retention Insert will lock on to the tool (Fig. 12).
2. Place the Novaloc® Retention Insert into the Novaloc® Matrix Housing (Fig. 13). The Novaloc® Retention Insert "clicks" into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

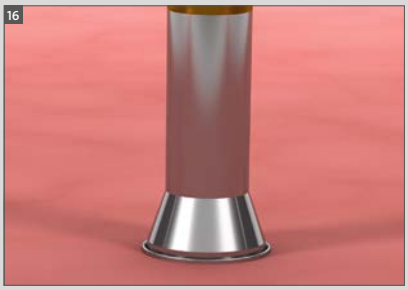
Demounting the Novaloc® Retention Insert

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

Retention insert color	*Retention*
red, extra light	*approx. 300 g*
white, light	*approx. 750 g*
yellow, medium	*approx. 1200 g*
green, strong	*approx. 1650 g*
blue, extra-strong	*approx. 2100 g*
black, ultra-strong	*approx. 2550 g*

Novaloc® Retention Inserts

The Novaloc® matrix system allows for a prosthetic insertion of up to +/- 20° divergence, meaning 40° between two Novaloc® Abutments.

Note:

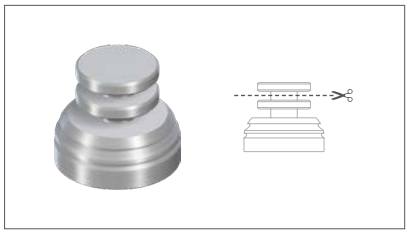
It is recommended to use the light retention force first (white). In case it feels too loose for the patient, exchange with inserts with a higher retention force.

Novaloc® Mounting Collar

The Mounting Collar blocks out the area surrounding the abutment, preventing that resin or a bonding agent flows 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 the required height.

Novaloc® Mounting Insert

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

Novaloc® Processing Spacer

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

5. Product reference list

Straumann® Novaloc® Abutment, straight, 0°*

	Art. No.	Description	Abutment height	Material
	048.812	RN Novaloc® Abutment, 0°	1 mm	Titanium Gr 5/ADLC
	048.813	RN Novaloc® Abutment, 0°	2 mm	Titanium Gr 5/ADLC
	048.814	RN Novaloc® Abutment, 0°	3 mm	Titanium Gr 5/ADLC
	048.815	RN Novaloc® Abutment, 0°	4 mm	Titanium Gr 5/ADLC
	048.816	RN Novaloc® Abutment, 0°	5 mm	Titanium Gr 5/ADLC
	048.817	RN Novaloc® Abutment, 0°	6 mm	Titanium Gr 5/ADLC
	048.818	WN Novaloc® Abutment, 0°	1 mm	Titanium Gr 5/ADLC
	048.819	WN Novaloc® Abutment, 0°	2 mm	Titanium Gr 5/ADLC
	048.820	WN Novaloc® Abutment, 0°	3 mm	Titanium Gr 5/ADLC
	048.821	WN Novaloc® Abutment, 0°	4 mm	Titanium Gr 5/ADLC
	048.822	WN Novaloc® Abutment, 0°	5 mm	Titanium Gr 5/ADLC
	048.823	WN Novaloc® Abutment, 0°	6 mm	Titanium Gr 5/ADLC
	048.806	NNC Novaloc® Abutment, 0°	1 mm	Titanium Gr 5/ADLC
	048.807	NNC Novaloc® Abutment, 0°	2 mm	Titanium Gr 5/ADLC
	048.808	NNC Novaloc® Abutment, 0°	3 mm	Titanium Gr 5/ADLC
	048.809	NNC Novaloc® Abutment, 0°	4 mm	Titanium Gr 5/ADLC
	048.810	NNC Novaloc® Abutment, 0°	5 mm	Titanium Gr 5/ADLC
	048.811	NNC Novaloc® Abutment, 0°	6 mm	Titanium Gr 5/ADLC
	022.0046	NC Novaloc® Abutment, 0°	1 mm	Titanium Gr 5/ADLC
	022.0047	NC Novaloc® Abutment, 0°	2 mm	Titanium Gr 5/ADLC
	022.0048	NC Novaloc® Abutment, 0°	3 mm	Titanium Gr 5/ADLC
	022.0049	NC Novaloc® Abutment, 0°	4 mm	Titanium Gr 5/ADLC
	022.0050	NC Novaloc® Abutment, 0°	5 mm	Titanium Gr 5/ADLC
	022.0051	NC Novaloc® Abutment, 0°	6 mm	Titanium Gr 5/ADLC
	022.0052	RC Novaloc® Abutment, 0°	1 mm	Titanium Gr 5/ADLC
	022.0053	RC Novaloc® Abutment, 0°	2 mm	Titanium Gr 5/ADLC
	022.0054	RC Novaloc® Abutment, 0°	3 mm	Titanium Gr 5/ADLC
	022.0055	RC Novaloc® Abutment, 0°	4 mm	Titanium Gr 5/ADLC
	022.0056	RC Novaloc® Abutment, 0°	5 mm	Titanium Gr 5/ADLC
	022.0057	RC Novaloc® Abutment, 0°	6 mm	Titanium Gr 5/ADLC

ADLC = Amorphous Diamond-Like Carbon

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

Not all products are available in all countries.

Straumann® Novaloc® Abutment, straight, 0°*

	Art. No.	Description	Abutment height	Material
	062.4501	RB/WB Novaloc® Abutment Ø4.5, 0°	1.5 mm	Titanium Gr 5/ADLC
	062.4502	RB/WB Novaloc® Abutment Ø4.5, 0°	2.5 mm	Titanium Gr 5/ADLC
	062.4503	RB/WB Novaloc® Abutment Ø4.5, 0°	3.5 mm	Titanium Gr 5/ADLC
	062.4504	RB/WB Novaloc® Abutment, Ø4.5, 0°	4.5 mm	Titanium Gr 5/ADLC
	062.4505	RB/WB Novaloc® Abutment Ø4.5, 0°	5.5 mm	Titanium Gr 5/ADLC
	062.4506	RB/WB Novaloc® Abutment Ø4.5, 0°	6.5 mm	Titanium Gr 5/ADLC

Straumann® Novaloc® Abutment, angled, 15°*

	Art. No.	Description	Abutment height	Material
	048.832	RN Novaloc® Abutment, 15°	2 mm	Titanium Gr 5/ADLC
	048.833	RN Novaloc® Abutment, 15°	3 mm	Titanium Gr 5/ADLC
	048.834	RN Novaloc® Abutment, 15°	4 mm	Titanium Gr 5/ADLC
	048.835	RN Novaloc® Abutment, 15°	5 mm	Titanium Gr 5/ADLC
	048.836	RN Novaloc® Abutment, 15°	6 mm	Titanium Gr 5/ADLC
	048.837	WN Novaloc® Abutment, 15°	2 mm	Titanium Gr 5/ADLC
	048.838	WN Novaloc® Abutment, 15°	3 mm	Titanium Gr 5/ADLC
	048.839	WN Novaloc® Abutment, 15°	4 mm	Titanium Gr 5/ADLC
	048.840	WN Novaloc® Abutment, 15°	5 mm	Titanium Gr 5/ADLC
	048.841	WN Novaloc® Abutment, 15°	6 mm	Titanium Gr 5/ADLC
	062.4507	RB/WB Novaloc® Abutment Ø4.5, 15°	1.5 mm	Titanium Gr 5/ADLC
	062.4508	RB/WB Novaloc® Abutment Ø4.5, 15°	2.5 mm	Titanium Gr 5/ADLC
	062.4509	RB/WB Novaloc® Abutment Ø4.5, 15°	3.5 mm	Titanium Gr 5/ADLC
	062.4510	RB/WB Novaloc® Abutment Ø4.5, 15°	4.5 mm	Titanium Gr 5/ADLC
	062.4511	RB/WB Novaloc® Abutment Ø4.5, 15°	5.5 mm	Titanium Gr 5/ADLC
	062.4512	RB/WB Novaloc® Abutment Ø4.5, 15°	6.5 mm	Titanium Gr 5/ADLC

Straumann® Novaloc® Abutment, angled, 15° | Type A*

	Art. No.	Description	Abutment height	Material
	048.842	NNC Novaloc® Abutment, 15°	2 mm	Titanium Gr 5/ADLC
	048.843	NNC Novaloc® Abutment, 15°	3 mm	Titanium Gr 5/ADLC
	048.844	NNC Novaloc® Abutment, 15°	4 mm	Titanium Gr 5/ADLC
	048.845	NNC Novaloc® Abutment, 15°	5 mm	Titanium Gr 5/ADLC
	048.846	NNC Novaloc® Abutment, 15°	6 mm	Titanium Gr 5/ADLC
	022.0062	NC Novaloc® Abutment, 15°	2 mm	Titanium Gr 5/ADLC
	022.0063	NC Novaloc® Abutment, 15°	3 mm	Titanium Gr 5/ADLC
	022.0064	NC Novaloc® Abutment, 15°	4 mm	Titanium Gr 5/ADLC
	022.0065	NC Novaloc® Abutment, 15°	5 mm	Titanium Gr 5/ADLC
	022.0066	NC Novaloc® Abutment, 15°	6 mm	Titanium Gr 5/ADLC
	022.0067	RC Novaloc® Abutment, 15°	2 mm	Titanium Gr 5/ADLC
	022.0068	RC Novaloc® Abutment, 15°	3 mm	Titanium Gr 5/ADLC
	022.0069	RC Novaloc® Abutment, 15°	4 mm	Titanium Gr 5/ADLC
	022.0070	RC Novaloc® Abutment, 15°	5 mm	Titanium Gr 5/ADLC
	022.0071	RC Novaloc® Abutment, 15°	6 mm	Titanium Gr 5/ADLC

Straumann® Novaloc® Abutment, angled, 15° | Type B*

	Art. No.	Description	Abutment height	Material
	048.847	NNC Novaloc® Abutment, 15°	2 mm	Titanium Gr 5/ADLC
	048.848	NNC Novaloc® Abutment, 15°	3 mm	Titanium Gr 5/ADLC
	048.849	NNC Novaloc® Abutment, 15°	4 mm	Titanium Gr 5/ADLC
	048.850	NNC Novaloc® Abutment, 15°	5 mm	Titanium Gr 5/ADLC
	048.851	NNC Novaloc® Abutment, 15°	6 mm	Titanium Gr 5/ADLC
	022.0072	NC Novaloc® Abutment, 15°	2 mm	Titanium Gr 5/ADLC
	022.0073	NC Novaloc® Abutment, 15°	3 mm	Titanium Gr 5/ADLC
	022.0074	NC Novaloc® Abutment, 15°	4 mm	Titanium Gr 5/ADLC
	022.0075	NC Novaloc® Abutment, 15°	5 mm	Titanium Gr 5/ADLC
	022.0076	NC Novaloc® Abutment, 15°	6 mm	Titanium Gr 5/ADLC
	022.0077	RC Novaloc® Abutment, 15°	2 mm	Titanium Gr 5/ADLC
	022.0078	RC Novaloc® Abutment, 15°	3 mm	Titanium Gr 5/ADLC
	022.0079	RC Novaloc® Abutment, 15°	4 mm	Titanium Gr 5/ADLC
	022.0080	RC Novaloc® Abutment, 15°	5 mm	Titanium Gr 5/ADLC
	022.0081	RC Novaloc® Abutment, 15°	6 mm	Titanium Gr 5/ADLC

Straumann® Novaloc® Bar Abutment

	Art. No.	Description	Abutment height	Material
	048.857V2	Novaloc® Bar Abutment	N/A	Titanium Gr 5/ADLC

ADLC = Amorphous Diamond-Like Carbon

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

Not all products are available in all countries.

Straumann® Novaloc® Plan Abutments, straight, 0°

	Art. No.	Description	Compatility to Novaloc® Abtuments
	048.280V4*	RN Novaloc® Plan Abutment, H 1-6 mm, POM	048.812, 048.813, 048.814, 048.815, 048.816, 048.817
	048.852V4*	WN Novaloc® Plan Abutment, H 1-6 mm, POM	048.818, 048.819, 048.820, 048.821, 048.822, 048.823
	048.951V4*	NNC Novaloc® Plan Abutment, H 1-6 mm, POM	048.806, 048.807, 048.808, 048.809, 048.810, 048.811
	025.2646-04*	NC Novaloc® Plan Abutment, H 1-6 mm, POM	022.0046, 022.0047, 022.0048, 022.0049, 022.0050
	025.4646-04*	RC Novaloc® Plan Abutment, H 1-6 mm, POM	022.0052, 022.0053, 022.0054, 022.0055, 022.0056, 022.0057

Straumann® Novaloc® Plan Abutments, angled, 15°

	Art. No.	Description	Compatility to Novaloc® Abtuments
	048.853V4	RN Novaloc® Plan Abutment, angled 15°, H 2-6mm, POM	048.832, 048.833, 048.834, 048.835, 048.836
	048.854V4	WN Novaloc® Plan Abutment, angled 15°, H 2-6mm, POM	048.837, 048.838, 048.839, 048.840, 048.841

Straumann® Novaloc® Plan Abutments, angled, 15°, Type A

	Art. No.	Description	Compatility to Novaloc® Abtuments
	048.855V4	NNC Novaloc® Plan Abutment, angled 15°, H 2-6mm, type A, POM	048.842, 048.843, 048.844, 048.845, 048.846
	025.0046V4	NC Novaloc® Plan Abutment, angled 15°, H 2-6mm, type A, POM	022.0062, 022.0063, 022.0064, 022.0065, 022.0066
	025.0045V4	RC Novaloc® Plan Abutment, angled 15°, H 2-6mm, type A, POM	022.0067, 022.0068, 022.0069, 022.0070, 022.0071

Straumann® Novaloc® Plan Abutments, angled, 15°, Type B

	Art. No.	Description	Compatility to Novaloc® Abtuments
	048.856V4	NNC Novaloc® Plan Abutment, angled 15°, H 2-6mm, type B, POM	048.847, 048.848, 048.849, 048.850, 048.851
	025.0048V4	NC Novaloc® Plan Abutment, angled 15°, H 2-6mm, type B, POM	022.0072, 022.0073, 022.0074, 022.0075, 022.0076
	025.0047V4	RC Novaloc® Plan Abutment, angled 15°, H 2-6mm, type B, POM	022.0077, 022.0078, 022.0079, 022.0080, 022.0081

*compatible to LOCATOR®

ADLC = Amorphous Diamond-Like Carbon

Not all products are available in all countries.

Retention Inserts*

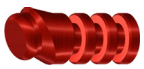
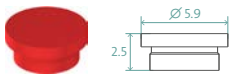
	Art. No.	Description	Material	Retention	Quantity
	2010.601-STM	**Processing Package titanium**			
		Titanium Matrix Housing (including Mounting Insert)			2 pcs
		Retention Insert, white, light			2 pcs
		Retention Insert, yellow, medium			2 pcs
		Retention Insert, green, strong			2 pcs
		Mounting Collar, silicone			2 pcs
	2010.611-STM	**Processing Package PEEK**			
		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	**Equipment Box, incl. 3 tools** Demounting Tool for Mounting Insert and Model Analog Reposition Aid (blue) Mounting and Demounting Tool for Retention Inserts (brown) Matrix Housing Extractor (gray)		1 pcs
	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
	2010.720-STM	Model analogue, angled 15°, red	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

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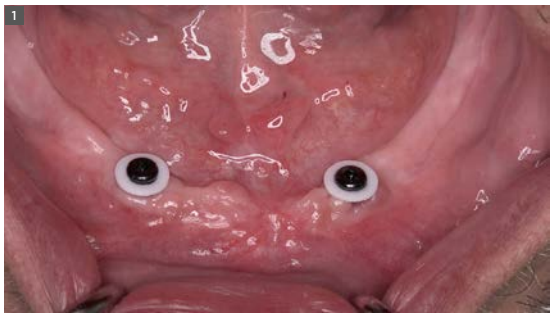
6. Appendix

6.1 Appendix A

6.1.1 Chair-side modification of an existing lower denture into an overdenture supported by Novaloc® Abutments

For an existing **well-fitting** and **well-functioning** lower complete denture, the **Novaloc® Retentive System** can be used in a chair-side procedure.
Caution: It is a prerequisite however, that the lower complete denture does not need to be relined by a **dental technician**.



Place white Mounting Collars on each Novaloc® Abutment. The Mounting Collars are used to block out the area surrounding the abutments.

Caution: If the Novaloc® Mounting Collars do not completely fill the space between the mucosa and the Matrix Housings any remaining undercuts must be blocked out to prevent resin flowing under the Matrix Housings. This can be accomplished by stacking two or more Mounting Collars or a custom sized and pierced piece of rubber dam.

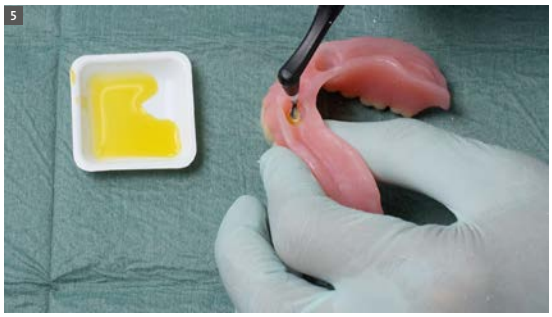
Then place a Matrix Housing with white Mounting Insert onto each Novaloc® Abutment, leaving the white Mounting Collar beneath it.

Prepare the lower complete denture to accommodate the Novaloc® Matrix Housings. Hollow out the existing denture base in the areas of the Novaloc® Matrix Housings with handpiece and resin bur.

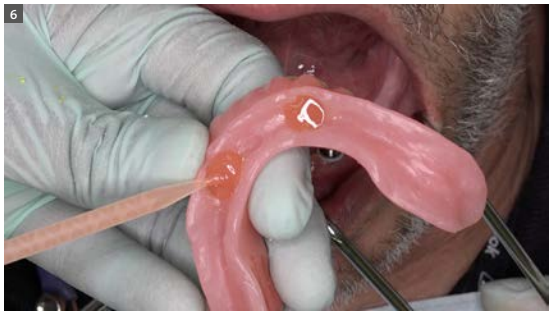
Note: Novaloc® Processing Spacers can be used instead of Matrix Housings to create the space needed in the denture.

Use wash impression silicone to confirm adequate clearance between the Matrix Housings and the denture base.

Insert the lower complete denture into the patient's mouth and check the clearance. The Matrix Housings fixed on the abutments should not touch the denture base. Reconfirm adequate space using wash impression silicone. Adjust the denture base until seated passively in occlusion without touching the Matrix Housings.



Prepare the recess in the lower complete denture with monomer. Protect areas where you don't want the resin with a thin layer of petroleum jelly.



Fill the hollowed area with self-curing PMMA resin to polymerize the Matrix Housings in the denture.

Apply a small amount of acrylic resin to the recess of the denture base and around the Matrix Housings. Insert the lower complete denture into the oral cavity.

Once the lower complete denture is properly seated, maintain the patient in full occlusion while the acrylic sets.

Once the resin has cured, remove the lower complete denture from the mouth and discard the white Novaloc® Mounting Collars.
Put the lower complete denture in hot, but not boiling, water. Place it in a pressure pot when available.

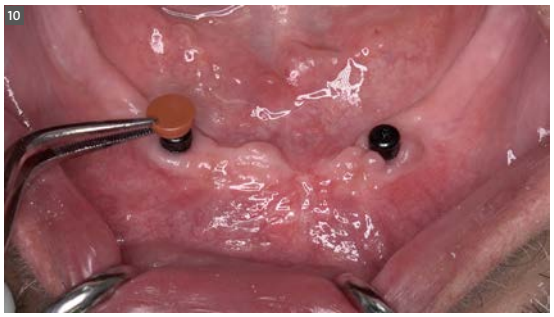
After final curing, remove any excess acrylic and finish the denture base.

Exchange the Mounting Inserts for the final Novaloc® Retention Inserts and insert the final overdenture into the patient's mouth. For details see brochure *Basic Information on the Straumann® Novaloc® Retentive System for Hybrid Dentures* (490.115).

6.2 Appendix B

6.2.1 Preparation for lab-side modification of an existing lower denture into an overdenture supported by Novaloc® Abutments

If the lower complete denture's fit is inadequate (poor adaptation to underlying tissue) after surgery and major adjustments are necessary, indirect relining of the mandibular denture is necessary. This means that relining and insertion of Novaloc® Matrix Housings incl. Mounting Inserts are performed by the **dental technician** immediately after border mold impression-taking. Lab-side relining has to be planned in advance with your dental technician.



Place a Novaloc® Forming/Fixing Matrix onto each **Novaloc® Abutment**.

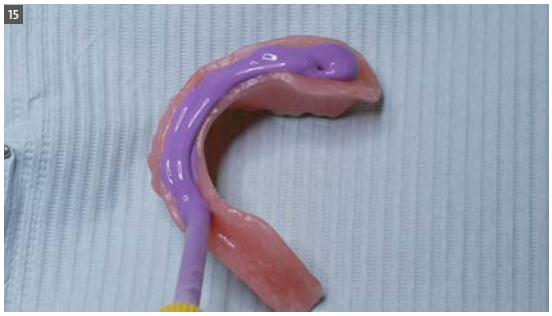
Hollow out the existing denture base in the areas of the Novaloc® Forming/Fixing Matrices with handpiece and resin bur.

Use wash impression silicone to confirm adequate clearance between the Matrix Housings and the denture base.

Insert the lower complete denture into the patient's mouth and check the clearance. The Matrix Housings on the abutments should not touch the denture base. Reconfirm space using wash impression silicone. Adjust the denture base to seat passively in occlusion without touching the Matrix Housings.

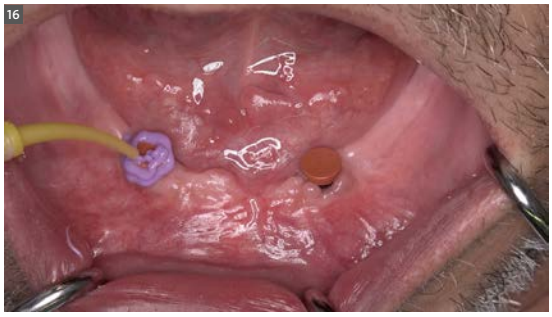
Prepare the lower complete denture for **border mold impression technique**.

- Remove any undercuts from the denture base.
- Check for peripheral extensions and if necessary (optional) adjust them with thermo-plastic materials (border molding).
- Dry the inner surface of the mandibular denture with alcohol and apply the corresponding adhesive.



Take a reline impression.

Apply polyether impression material to the internal aspect of the lower complete denture, and take a reline impression with the patient in occlusion.



Once the impression material has cured, remove the lower complete denture with the Novaloc® Forming/Fixing Matrices from the mouth. If the Novaloc® Forming/Fixing Matrices did not remain inside the impression, carefully reseat them into the reline impression.

Send the mandibular denture to the dental technician to reline it, integrate the Matrix Housings and convert it into an overdenture. After having received the final overdenture from the **dental technician** exchange the Mounting Inserts for the final Novaloc® Retention Inserts and insert the final overdenture into the patient's mouth. For details see brochure *Basic Information on the Straumann® Novaloc® Retentive System for Hybrid Dentures* (490.115).

Notes

Notes

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