Novaloc[®]

Instructions for Use

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1 INTRODUCTION

Please read this product description/ instruction manual before you use the Novaloc® Matrix System for the first time.

Correct adherence to the instructions below is the prerequisite and guarantee for the proper operational reliability of the system.

The manufacturer accepts no liability whatsoever for any damage caused by failure to observe these instructions.

1.1 Legend

| € | Conformity symbol | 2 | Do not reuse |
|------------------------|------------------------|-----|---------------------------|
| | manufacturer | REF | Article number |
| NON STERILE | Non-sterile | LOT | Batch code |
| $\bigcap_{\mathbf{i}}$ | Instructions for use | 漆 | Do not expose to sunlight |
| | 0 6 110 5 1 11 (11 (11 | | |



Caution: U.S. Federal law restricts this device to sale by or on the order of a dental professional.

1.2 Indication

The Novaloc® Matrix System may be used in new or existing Novaloc® compatible partial dentures or overdentures.

1.3 Contraindication

The Novaloc® Matrix System cannot be used when there is a divergence of more than 40° between the implants. Not suitable if fixed connections are required. Lacking cooperation of the patient with respect to follow-up / recall instructions. Patients with bruxism or other parafunctional habits. Unilateral free-end prosthesis without transversal support.

1.4 Field of Application

Dentistry

1.5 Sterilization

The product is delivered UNSTERILISED.

Every prosthetic reconstruction must be cleaned and disinfected before use.

1.6 Storage

Plastic parts must be protected from strong light and heat and stored at room temperature.

1.7 Allergies

This product must not be used for patients with suspicion of an existing allergy to one or more elements of the materials used.

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The product must be used only after an allergy test has been performed and proof obtained that no allergy exists.

Note

Using toothbrushes and toothpaste to clean products mechanically can lead to premature wear in functional areas.

2 SYSTEM DESCRIPTION

The Novaloc® matrix system with its newly developed technology is a ready-made connective element to fix removable dentures to Locator® males or Novaloc® and Locator® abutments.

The Novaloc® matrix consists of a housing (choice between titanium or PEEK) and four interchangeable plastic retention inserts (PEEK) with differently color-coded retention values or pull-off weights.

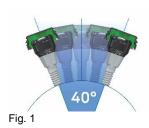
The snap fit connection of the Novaloc® matrix to the Novaloc® abutment or Locator® male is based on the locking mechanism of the retention insert across the functional range of the Novaloc® abutment or the Locator® male. In particular, thanks to the construction of the retention insert and the use of PEEK as a material, the Novaloc® matrix is also able to cater for several extremely divergent abutment positions without wear and tear to the retention inserts.

The dilation area arranged between the matrix housing and the retention insert allows the retention insert to expand without any strain, thus significantly extending the life span.

Mindful of their use in daily practice, the specifically developed Novaloc® user equipment for dentists and dental technicians includes all necessary system components and tools.

One of the absolutely Novaloc[®]-specific tools to be mentioned here is the mounting and demounting tool for retention inserts which permits retention inserts to be replaced or exchanged absolutely stress-free using specially developed technology.

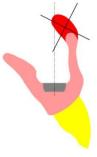
2.1 Procedure for diverging implant positions



The Novaloc® Matrix System offers the possibility of integrating a dental prosthesis for implantations bent by up to 20 degrees. This means that divergences between two implants of a maximum of 40 degrees can be corrected [Fig.1].

For this purpose, the four color-coded Novaloc® retention inserts classified by impression weight can be used without the need for bent abutments.

2.2 Prosthesis base arrangement for use with anchoring elements (hybrid dental prosthesis)



Attention!

In case of divergences in the alveolar ridge relative to the Novaloc® matrix axis, it is essential that the affected prosthesis edges are shortened to the prosthetic equator [Fig.2].

This procedure is **absolutely necessary** for any type of hybrid dental prosthesis to ensure that the prosthesis can be inserted without any stress in combination with the supporting elements

Fig.2

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3 SYSTEM OVERVIEW

3.1 Novaloc® Components

| Image | Part no. | Description | Specifications | Quantity per unit |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------|--------------------------------------------|-------------------|
| 6 | 2010.701 | Matrix housing, titanium | Matrix housing: Ti Mounting insert: POM | 4 pcs. |
| | 2010.701-STM | (including mounting insert) -disinfectable- | | |
| | 2010.702 | Matrix housing, PEEK (including mounting insert) | Matrix housing: PEEK | 4 000 |
| | 2010.702-STM | -disinfectable- | Mounting insert: POM | per unit |
| | 2010.711 | Retention insert, white | PEEK | 4 |
| Fa | 2010.711-STM | -disinfectable- | Retention value: light | 4 pcs. |
| | 2010.712 | Retention insert, yellow | PEEK | 4 pcs. |
| Pa | 2010.712-STM | -disinfectable- | Retention value: <i>medium</i> | |
| | 2010.713 | Retention insert, green | PEEK Retention value: strong | 4 pcs. |
| Co | 2010.713-STM | -disinfectable- | | |
| | 2010.714 | Retention insert, blue | PEEK | |
| C | 2010.714-STM | -disinfectable- | Retention value: extra-strong | 4 pcs. |
| Con | 2010.721 | Model analog Ø4 blue | | 4 pcs. |
| The state of the s | 2010.721-STM | -disinfectable- | Al | |
| | 2010.722 | Forming/fixing matrix, | PEEK | 4 pcs. |
| | 2010.722-STM | red -disinfectable- | | |
| | 2010.723 | Dracesing energy white | РОМ | 4 pcs. |
| | 2010.723-STM | Processing spacer, white -disinfectable- | | |
| | 2010.724 | Mounting collar, silicone | 0 | |
| V | 2010.724-STM | -disinfectable- | Silicone | 10 pcs. |
| | 2010.725 | Mounting insert | РОМ | 4 pcs. |
| | 2010.725-STM | -disinfectable- | | |

3.2 Novaloc® Instruments

| Image | Part no. | Part description | Specifications | Quantity per unit |
|------------|------------------------------------------|---------------------------------------------------|-----------------------------|-------------------|
| | 2010.731 | Demounting tool for mounting inserts + | | |
| | 2010.731- STM | model analog reposition aid (blue) -sterilizable- | AI, stainless steel | 1 pc |
| | 2010.741 | Mounting and demounting tool | | |
| | 2010.741- STM | for retention inserts (brown) -sterilizable- | Al, stainless steel | 1 pc |
| The second | 2010.751 Matrix housing extractor (gray) | | | |
| | 2010.751- STM | -sterilizable- | AI, stainless steel, POM | 1 pc |

3.3 Novaloc®- special accessories

| Image | Part no. | Part description | Specifications | Quantity per unit |
|-------|----------------------------------|---------------------------------------------|---------------------------------------------|-------------------|
| 44/1 | 2010.703 | Matrix housing with attachment option | Matrix: Ti | |
| | 2010.703- STM | (including mounting insert) -disinfectable- | Mounting insert: POM | 4 pcs. |
| | 2010.710 | Retention insert red | PEEK Retention value: extra-light | 4 pcs. |
| | 2010.710- STM | -disinfectable- | | |
| | 2010.715 | Retention insert black | PEEK | 4 |
| | 2010.715- STM -disinfectable- | Retention value: <i>ultra-strong</i> | 4 pcs. | |

3.4 Novaloc® System Components

| Image | Part no. | Part description | Quantity per unit |
|-------|--------------------------|--------------------------------------------------------------------------|-------------------|
| | 2010.101 2010.101-STM | Equipment box incl. 3 tools | |
| | 2010.731 2010.731-STM | Demounting tool for mounting insert + model analog reposition aid (blue) | 1 pc. |
| | 2010.741 2010.741-STM | Mounting and demounting tool for retention inserts (brown) | 1 pc. |
| | 2010.751 | | |
| | 2010.751-STM | Matrix housing extractor (gray) | 1 pc. |
| | 2010.102 | Equipment box with insert | 1 pc. |
| | 2010.201 | Initial load equipment box | |
| | 2010.701 | Titanium matrix housing (including mounting insert) | 4 pcs. |
| 06 | 2010.702 | PEEK matrix housing (including mounting insert) | 4 pcs. |
| | 2010.711 | Retention insert, white light | 4 pcs. |
| 0 000 | 2010.712 | Retention insert, yellow medium | 4 pcs. |
| | 2010.713 | Retention insert, green strong | 4 pcs. |
| | 2010.714 | Retention insert, blue extra-strong | 4 pcs. |
| C O | 2010.721 | Model analog Ø4, blue | 4 pcs. |
| | 2010.722 | Forming/fixing matrix, red | 4 pcs. |
| | 2010.723 | Processing spacer, white | 4 pcs. |
| | 2010.724 | Mounting collar, silicone | 10 pcs. |

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| | 2010.601 | Processing package titanium | |
|---------|--------------|------------------------------------------------------|--------|
| | 2010.601-STM | Processing package maintin | |
| | 2010.701 | Titanium matrix housing (including mounting insert) | 2 pcs. |
| | 2010.701-STM | Thailian matrix nedering (including meenting incert) | 2 pcs. |
| | 2010.711 | Retention insert, white light | 2 pcs. |
| | 2010.711-STM | | |
| (A) (A) | 2010.712 | Retention insert, yellow <i>medium</i> | 2 pcs. |
| | 2010.712-STM | Trotoridon moort, your modium | 2 poo. |
| | 2010.713 | Retention insert, green strong | 2 pcs. |
| | 2010.713-STM | | 2 pcs. |
| | 2010.724 | Mounting coller cilicone | 0.50 |
| l :: | 2010.724-STM | Mounting collar, silicone | 2 pcs. |



| 2010.611 | Dressesing package DEEV | |
|--------------|----------------------------------------------------|--------|
| 2010.611-STM | Processing package PEEK | |
| 2010.702 | Matrix housing PEEK (including mounting insert) | 2 pcs. |
| 2010.702-STM | Matrix flousing i EER (including modifiing insert) | 2 pcs. |
| 2010.711 | Retention insert, white <i>light</i> | 2 pcs. |
| 2010.711-STM | Retention insert, write light | 2 pcs. |
| 2010.712 | Retention insert, yellow medium | 2 pcs. |
| 2010.712-STM | retention insert, yellow mediam | |
| 2010.713 | Retention insert, green strong | 2 pcs. |
| 2010.713-STM | Retention insert, green strong | |
| 2010.724 | Mounting collar, silicone | 2 pcs. |
| 2010.724-STM | iniounting collar, sillcone | |

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4 CLEANING

Novaloc® components must under no circumstance be exposed to autoclave/steam sterilization because of the ensuing reduction in dimensional stability, resulting in a probable deformation of parts.

Responsibility for regular maintenance and monitoring of cleaning, disinfection and sterilization equipment rests with the operator, as does the corresponding validation.

The relevant product information by the manufacturer of the respective cleaning, disinfection and sterilization equipment is to be followed for all settings not listed here (e.g. pressure, time).

All surfaces have to be accessible to the disinfection and sterilization agents. Before the products are used in the patients, they must be cleaned with compressed air.

4.1 Disinfection / Sterilization

After each completion or modification, the prosthetic work, incl. matrix components must be cleaned and disinfected according to national guidelines. When selecting the disinfectant, make sure that it:

- Is suitable for cleaning and disinfection of dental prosthetic components.
- Is compatible with the materials of the products that are going to be cleaned and disinfected.
- Has a proven effectiveness of disinfection.

4.2 Disinfection

All plastic parts must be disinfected before use with a low or medium EPA registered disinfectant. The equipment box can also be disinfected and is used exclusively as a storage means for the supplied Valoc prosthetic products and their instruments.

4.3 Sterilization

All metallic Novaloc® components must be sterilized before use.

Plastic parts are not suitable for steam sterilization.

The recommended duration of autoclave/ steam sterilization is 18 minutes at a temperature of 134°C+3°C (273.2°F+5.4°F/ 407.15K+3K).

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5 RISKS

Withdrawn prosthetic items may not be returned to the box. Instruments have to be sterilized and if necessary disinfected after use and before storage.

5.1 Risks associated with cleaning

Only use Novaloc® instruments that are completely clean and sterile!

Novaloc® instruments must not come into contact with agents containing chloride or fluoride.

Aluminum or aluminous materials must never come into contact with any mercurial agents. Even the minutest traces of mercury can cause considerable corrosion. Novaloc® instruments made from aluminous materials must only be wiped, cleaned or immersed in cleaning or disinfecting agents with a pH value between 4.5 and 8.5. The protective layer of aluminous materials dissolves at higher or lower pH values, resulting in corrosion.

Reusable Novaloc® instruments have to be cleaned, disinfected and sterilized immediately after use.

No contamination must be allowed to dry on Novaloc® instruments as this will make subsequent cleaning more difficult.

Novaloc® instruments should not be immersed into physiological saline solution, as prolonged contact could lead to corrosion and surface changes.

Always use freshly prepared cleaning and sterilization agents.

Neither metal brushes nor abrasive agents must be used to clean the instruments.

For all Novaloc® instruments with hollow spaces, extra care has to be taken specifically prior to sterilization to ensure that no residue is left inside these spaces.

5.2 Risks associated with the Novaloc® system

5.2.1 Use of Novaloc® instruments

General risks associated with the use of Novaloc[®] instruments are allergic reactions to the material that is instrument is made of as well as loosening, wear and tear, corrosion and ageing of instrument parts.

Damage or improper handling can result in corrosion, oxidation, excessive wear or functional impairment of Novaloc® instruments.

Instruments can have sharp edges or pointed ends. These can cause damage to plastic/latex gloves. Users need to be aware of the associated risk of infection.

5.2.2 Use of Novaloc® components

No risks associated with Novaloc® components are currently known.

In case of unexpected complications or pain, patients are advised to contact their dentist or dental prosthetician immediately.

6 PROSTHETIC PROCEDURE

6.1 Novaloc® matrix housing (titanium / PEEK)



The Novaloc™ matrix housing is available in titanium [Fig.3] and beige plastic (PEEK) [Fig.4].

The titanium matrix housing can be inserted in the usual manner.

Fig.3



The beige plastic (PEEK) version is used for extreme labial or buccal positions in relation to the Locator® (no gray irritation) as well as in holistic dentistry where treatment has to be provided without the use of metal.

Fig.4







6.2 The Novaloc® mounting insert (POM)



The mounting insert [Fig.5] serves to protect the interior of the matrix housing and to secure the cap in place during processing.

Thanks to its outstanding fit and functionality, the mounting insert ensures the accurate positioning of the cap on the Locator® male; it also prevents any plastic from entering into the cap during polymerization.

The mounting insert must only be removed after polymerization of the cap into the denture, using Novaloc® removal tool for mounting inserts [Fig.6.1] [Fig.6.2].





Fig.6

Removing mounting insert with removal tool version 1 (from 11/2012)

- 1. Use the stainless steel tip of the removal tool [Fig.6.1]
- 2. Insert the toe of the Novaloc® removal tool into the mounting insert. There is marking notch on the stainless steel tip as an orientation guide for the toe [Fig.6.1]. Insert the removal toe into the hole in the bottom of the mounting insert. [Fig.6.3]
- 3. Tip the removal tool to the opposite side of the foot-shaped end and remove the mounting insert from the matrix housing by pulling [Fig.6.1].



Fig.6.1



Fig.6.2



Fig.6.3

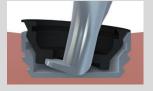


Fig.6.4

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Fig.7.1

Removing mounting insert with removal tool version 0

Novaloc[®] removal tool version 0 [Fig.7, Fig.7.1] is not compatible with the mounting insert.

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Novaloc® retention insert (PEEK)





Retention value: approx. 750g



Retention value: medium approx. 1200g



Retention value: strong approx. 1650g



Retention value: extra-strong approx. 2100g

Four retention inserts, color coded according to its pull-off weight or retention value [Fig.7], are available for the fixation of Novaloc® matrices.



After the removal of the mounting insert, they are placed inside the matrix housing as required. The tool for this purpose is the Novaloc[®] mounting and demounting tool for retention inserts [Fig. 9] which permits easy handling. In this way, retention inserts can be replaced without stress or damage:

Fig.9

Mounting:









Fig.9.3 Fig.9.4

- 1. Use the bright metal plunger of the tool to pick up the retention insert of your choice from the equipment box. You can feel the retention insert locking onto the plunger. [Fig.9.1;9.2]
- 2. Press the retention insert up axial to matrix housing into the matrix housing. You can hear and feel it "click"! [Fig.9.3;9.4]

Demounting:





Fig.9.6



Fig.9.7

- 1. The bright metal gripper of the tool is aligned axial to the matrix housing and locked in place via the outside of the retention insert, using slight pressure, but no force, with a noticeable "click". In this procedure, the use of binocular loupes is advantageous. [Fig.9.5;9.6;9.7]
- 2. This unlocks the retention insert, which can then be removed from the matrix housing using a slight rotational movement. [Fig.9.7]

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6.4 Novaloc® forming/fixing matrix (PEEK / red)



Fig.10

The Novaloc® forming/fixing matrix [Fig.10] is slightly higher than the complete Novaloc® matrix. In the transfer/ molding process into existing dentures, this provides clarity and an overview whether there will be sufficient space for the Novaloc® matrix amongst potential obstructions such as metal reinforcements, artificial teeth etc. [Fig.10.1].

Inside the mouth, the Novaloc® forming/fixing matrix is placed onto the Locator® abutment [Fig.10.2]. A perceptible and audible "click" ensures the accurate positioning of the forming/fixing matrix. Then proceed with the pickup impression as normal.

Thanks to its minimal space requirement, the Novaloc® forming/fixing matrix is also ideally suited as a fixation cap for check-bites, templates, bars, provisional dentures etc. [Fig.10.3]







Fig.10.1

Fig.10.2

Fig.10.3

6.5 Novaloc® processing spacer (POM / white)



Fig.11

The Novaloc® white processing spacer [Fig.11] is the ideal space holder for the later polymer or glue fixation of the original matrix into model-cast or cast metal-reinforced dentures thanks to the slightly oversized dimensions of the matrix[Fig.11.1;11.2;11.3]

The outside surfaces of the processing spacer are slightly angled, thus creating a self-retentive gap for the admission of the matrix housing in the metal in model-cast or cast metal-reinforced structures.



Fig.11.1



Fig.11.2



Fig.11.3

6.6 Novaloc® mounting collar (silicone / white)



Fig.12

The Novaloc[®] mounting collar - white - [Fig.12] is used in the direct matrix fixation in the patient's mouth.

To this end, the mounting collar is placed below the retentive molding at the Locator® male [Fig.12.1] and pushed flush with the matrix that is to be glued in place.

This prevents excessive polymer or glue from attaching itself to the cylindrical neck of the Locator® abutment, with the consequence of firmly locking the denture to the screwed in Locator® abutment.



Fig.12.1

The following rule applies when fitting matrixes directly into the mouth:

Better to use too little rather than too much polymer or glue. This means that all excesses have to be avoided.

If necessary, adding further glue outside of the mouth is the safest way toprevent lockages inside the mouth!

6.7 The Novaloc® model analog (aluminum / blue)



Fig.13



The neck area of the Novaloc® model analog -blue- [Fig.13] is identical in size with the original Locator® abutment, thus ensuring that the impression material cannot cause irritation when positioning the model analog into the impression. [Fig.13.6]

To help with the positioning of the analog in the impression, Novaloc[®] provides the model analog repositioning tool [Fig.12.1] which provides absolute safety in handling [Fig.12.2;12.3;12.4;12.5;12.6]

Fig.13.1



Fig.13.2



Fig.13.3



Fig.13.4



Fig.13.5



Fig.13.6

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6.8 Novaloc® matrix housing extractor + stripping equipment (gray) - only for titanium caps-



The Novaloc® extractor stands out for its simplicity and efficiency. [Fig.13]

Fig.14

The three application steps:



1. Heat the extractor head over a flame [Fig.14.1]

Fig.14.1



2. Attach the beak-shaped side of the Novaloc® extractor anywhere within the circular groove of the matrix housing and let the heat of the heated extraction head 2 to 3 seconds on the cap bottom briefly to soak. [Fig.14.2]

Fig.14.2



3. Apply leverage to the opposite of the beak-shaped side to remove both the Novaloc® extractor and the matrix housing. [Fig.14.3]

Fig.14.3

Procedure for using stripping equipment:



- 1. To loosen the retention insert taken out of the dental prosthesis from the extraction instrument, a groove is cut into on the handle end. The retention insert must be pushed into the appliance notch. [Fig.14.4]
- 2. Tilting the instrument to the side releases the retention insert.

Fig.14.4

6.9 Novaloc® equipment box

The Novaloc® equipment box [Fig.15], specifically designed for dentists and dental technicians, stands out for its clear and user-friendly lay-out. It contains the three Novaloc® instruments.

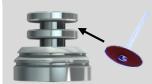
The lay-out and fitting of the box ensures that all individual parts remain within their individual storage containers when the box is closed.

In addition, it was used for this box is an extremely shock-and shatter-resistant material, that the usual standards in the dental office and laboratory will provide fully sufficient.

Fig.15

6.10 The Novaloc® special accessories

Matrix housing titanium with attachment option:



The matrix housing titanium with attachment option finds its indication in low-lying or not ideal selected abutment heights. Sufficient support in denture bases can be achieved by shortening the additional fixing steps. [Fig.16]

Fig.16

Retention insert red:



The retention insert red [Fig.17] is the most smooth-running retention insert.

Retention value: extra-light (approx. 300g)

Fig.17

Retention insert black:



The retention insert black [Fig.18] for extreme situations is recommended for the following indications:

- Heavily worn abutment
- Fixtures with only one supporting element.

Fig.18

Retention value: ultra-strong (approx. 2550g)