

# Assistant Guidelines



# 2. Assistant Guidelines

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## 2.1 Surgical Assistant Guidelines

The Neoss® Implant System comprises implants and abutments offering a logical and simplified approach for all treatment protocols including immediate and early loading, immediate placement and one or two stage placement. The Neoss Implant System is available in 7 diameters Ø3.5, Ø4.0, Ø4.5, Ø5.0, Ø5.5, Ø6.0 and Ø6.5, all with the prosthetic Standard Platform (SP), and in addition there is a narrow Neoss Ø3.25 mm implant with the prosthetic Narrow Platform (NP). The implants are available in lengths from 7–17 mm with some deviations, please refer to product catalog for detailed information about available implant types, diameters and lengths. The packaging for Neoss implants and instruments used for a specific implant diameter (countersinks and screwtaps) have the following color coding:



The Neoss implants are a universal design for all bone qualities. The implants have both Thread Cutting and Thread Forming as the geometry of the implants 'forms' the site in poorer bone qualities optimizing compression. They are self tapping implants with the primary cutting face designed to cut a precise thread profile and a secondary cutting face to control compression in dense bone.

The Neoss ProActive® implants are commercially pure titanium implants with an altered surface. This surface has been subjected to a multistage blasting, etching, cleaning and chemical treatment.

The Neoss implants have an internal connection. The implant is 'picked up' from a sterile glass vial with an Implant Inserter. The surgical drills are for single use and delivered in sterile condition for immediate use. There is only one screwdriver connection in the standard assortment, the Neo screwdriver, and this is used for all components including cover screws, healing abutment screws, and final abutment screws.

All Neoss implants, except Ø3.25, have the same implant to abutment connection as there is a single platform for all standard implant diameters.

Neoss implants are provided in kits which include a cover screw, two healing abutments (only 5 mm with Ø3.25 mm implant) and a healing screw. This complete delivery method enables the clinician to undertake either one or two stage surgery at time of placement without the need to have pre-ordered individual components. There are also two stickers provided in the implant kit to assist in recording information on the patient's chart.

The following information is a guide as requirements may vary on an individual basis.

### 2.1.1 Treatment Options

The Neoss implants may be placed using a Single/One Stage Surgical Protocol (which may involve immediate loading/function) or a Two Stage surgical protocol.

Either surgical protocol may be used to construct a single tooth, bridge or overdenture. Factors which may influence the choice of one protocol over the other are detailed in the Neoss Implant System Surgical Guidelines.

- Single/One Stage Surgery – this procedure involves placing a healing abutment, a provisional abutment or prosthesis at time of implant placement.
- Two Stage Surgery – this procedure involves placing a cover screw at the time of implant placement, then after a designated healing time a second surgical procedure to uncover the implant and place a healing/provisional or other form of abutment.

Prior to the actual procedure, treatment objectives and goals should have been discussed with the patient and careful planning in relation to the number and diameter of implants have been determined.

## 2.2 Surgical Procedure and Drilling Protocol \_\_\_\_

### 2.2.1 Surgery Set-up

Either an operating theatre or a well prepared dental surgery may be used for the procedure.

Suggested surgical items/instruments – GENERAL:

- caps, gloves, gowns and masks
- drapes for patient
- additional drapes for bench tops, stands etc.
- suction equipment
- irrigation equipment
- antiseptic solution/clamp and swabs for patient preparation
- surgical instruments: scalpels, mirror, bowl, cheek retractors, elevators, scissors – dissecting/suture, forceps, artery forceps
- gauze, gauze swabs etc.
- tubing covers
- anaesthetic/syringe
- drilling equipment, handpiece and motor

Suggested surgical items/instruments – NEOSS SYSTEM (please refer to flowchart on the following pages):

- drill kit, optional drills, countersink, screw tap
- implants
- pre-sterilized surgical and prosthetic tray
- Neoss System surgical instruments: drill extender, inserters 17/22/32 mm (NP 24/32 mm), Wrench Adapter, Neo screwdrivers 22/32 mm, 15 mm manual Neo screwdriver, manual handle, ratchet, direction depth gauges, Depth Gauge Probe, Insertion Handle – Large
- Neoss ProActive Implant System Box (fits the surgical and prosthetic trays – used for sterilizing and storing instruments)

Handling of hazardous material according to established procedures at the hospital/clinic.

**Implants**  
**ProActive Straight**

**Drilling Sequence**  
**Recommended (Regular)**

**Optional**

Ø3.25



9 mm #21176  
11 mm #21177  
13 mm #21178  
15 mm #21179



Ø3.5



7 mm #21181  
9 mm #21182  
11 mm #21183  
13 mm #21184  
15 mm #21185  
17 mm #21186



Ø4.0



7 mm #21187  
9 mm #21188  
11 mm #21189  
13 mm #21190  
15 mm #21191  
17 mm #21192



Ø4.5



7 mm #21193  
9 mm #21194  
11 mm #21195  
13 mm #21196  
15 mm #21197  
17 mm #21198



Ø5.0



7 mm #21199  
9 mm #21200  
11 mm #21201  
13 mm #21202  
15 mm #21203



Ø5.5



7 mm #21205  
9 mm #21206  
11 mm #21207  
13 mm #21208



**Implants**  
**ProActive Tapered**

**Drilling Sequence**  
**Recommended (Regular)**

**Optional**

Ø3.5



9 mm #21221  
11 mm #21222  
13 mm #21223  
15 mm #21224



Ø4.0



9 mm #21227  
11 mm #21228  
13 mm #21229  
15 mm #21230



Ø4.5



9 mm #21233  
11 mm #21234  
13 mm #21235  
15 mm #21236



Ø5.0



9 mm #21239  
11 mm #21240  
13 mm #21241  
15 mm #21242



Ø5.5



9 mm #21245  
11 mm #21246  
13 mm #21247



**ProActive Ø6.0**



7 mm #21252  
9 mm #21250  
11 mm #21251



**Implants**  
**ProActive Edge**

**Drilling Sequence**  
**Recommended (Regular)**

**Optional**

Ø3.5



9 mm #21301  
11 mm #21302  
13 mm #21303  
15 mm #21304



Ø2.2 S



Ø3.0 T



Ø3.5 E  
Countersink

Ø4.0



9 mm #21305  
11 mm #21306  
13 mm #21307  
15 mm #21308



Ø2.2 S



Ø3.0 T



Ø3.4 T



Ø4.0 E  
Countersink

Ø4.5



9 mm #21309  
11 mm #21310  
13 mm #21311  
15 mm #21312



Ø2.2 S



Ø3.4 T



Ø3.0 T



Ø3.9 T



Ø4.5 E  
Countersink

Ø5.0



9 mm #21313  
11 mm #21314  
13 mm #21315  
15 mm #21316



Ø2.2 S



Ø3.9 T



Ø3.4 T



Ø4.4 T



Ø5.0 E  
Countersink

## Instruments

### Implant Inserters and Wrench Adapter



### Neo Screwdrivers and Manual Handle

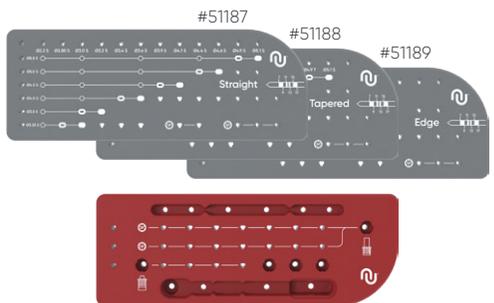


### Implant Kit

(all implants sold in kits)



### Surgical and Prosthetic Trays



### Titanium Healing Abutments



## 2.2.2 Surgical Procedure

The surgical procedure may entail a range of procedures including minimally invasive surgery and raising a full thickness flap and exposing the bone in the proposed site. A series of increasing diameter drills are used to enlarge the osteotomy for implant placement – this may involve the use of countersinks and screw taps depending on individual preference and/or the quality of bone.

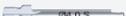
- If the procedure is to be carried out in a hospital environment then the preparation of the theatre and surgical staff should conform to the established protocols of each individual hospital.
- It is desirable to have both a sterile and non-sterile assistant throughout the procedure. Ensure sterile handling during preparation and surgery.
- All bone preparation drilling is carried out under profuse irrigation using either saline or sterile water to avoid overheating of the bone.
- If a surgical guide/stent is to be used for implant placement then follow the manufacturer's recommendation for the sterilization procedure.
- The drilling sequence for bone preparation is outlined in the Neoss System Drilling Protocols (following pages) however individual preferences or bone quality may require a deviation from these protocols. It is therefore recommended that additional/optional components only be opened when indicated by the surgeon.

*Note: Please refer to the Neoss Implant System Surgical Guidelines for detailed information in relation to:*

- *Machine implant insertion*
- *Manual implant insertion*
- *Single stage surgical procedure*
- *Two stage surgical procedure*
- *Post operative care*

## 2.2.3 Drilling Protocols

### ProActive Straight implants

	ProActive Straight Ø3.25 mm	ProActive Straight Ø3.5 mm	ProActive Straight Ø4.0 mm	ProActive Straight Ø4.5 mm	ProActive Straight Ø5.0 mm	ProActive Straight Ø5.5 mm	Drill Stop
 Ø2.2 S	○	○	○	○	○	○	
 Ø2.85 S	○	○	○	○	○	○	
 Ø3.0 S	●	○	○	○	○	○	
 Ø3.2 S		●	○	○	○	○	
 Ø3.4 S			○	○	○	○	
 Ø3.6 S			●	○	○	○	
 Ø3.9 S				○	○	○	
 Ø4.1 S				●	○	○	
 Ø4.4 S					○	○	
 Ø4.6 S					●	○	
 Ø4.9 S						○	
 Ø5.1 S						●	
 Countersink	Ø3.25 Optional use	Ø3.5 Optional use	Ø4.0 Optional use	Ø4.5 Optional use	Ø5.0 Optional use	Ø5.5 Optional use	
 Screw Tap	Ø3.25 Optional use	Ø3.5 Optional use	Ø4.0 Optional use	Ø4.5 Optional use	Ø5.0 Optional use	Ø5.5 Optional use	
	<b>Bone quality</b>	 Regular	 Dense				

### Guidelines

- Start at the top of the column with the Ø2.2 mm twist drill.
- Move down to the next marking for the chosen bone quality and prepare the site with the drill corresponding to that marking.
- Keep moving down the column until the final preparation is performed at the chosen bone quality marking.

*Drill step for Regular bone recommended before drill step for Dense bone.*

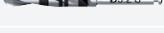
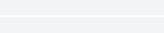
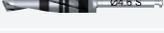
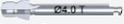
### Additional notes

*The Neoss drill assortment allows for individualized drill protocol in **Soft bone**.*

*Screw taps available but not required.*

*In presence of dense bone, additional care is taken during insertion. The thread cutting and forming design of the implant acts as a screw tap. Use reverse torqueing 1/2–1 turn before continuing.*

# ProActive Tapered Implants

	ProActive Tapered Ø3.5 mm	ProActive Tapered Ø4.0 mm	ProActive Tapered Ø4.5 mm	ProActive Tapered Ø5.0 mm	ProActive Tapered Ø5.5 mm	Drill Stop	ProActive Ø6.0 mm
 Ø2.2 S							
 Ø3.0 T							
 Ø3.2 S							
 Ø3.4 T							
 Ø3.6 S							
 Ø3.9 T							
 Ø4.1 S							
 Ø4.4 T							
 Ø4.6 S							
 Ø4.9 T							
 Ø5.1 S							
 Ø5.5 T							
 Countersink Ø4.0 T	Ø3.5 T Optional use	Ø4.0 T Optional use	Ø4.5 T Optional use	Ø5.0 T Optional use	Ø5.5 T Optional use		Ø6.0 Optional use
 Screw Tap Ø3.5	Ø3.5 Optional use	Ø4.0 Optional use	Ø4.5 Optional use	Ø5.0 Optional use	Ø5.5 Optional use		–
	<b>Bone quality</b>	 Soft IV & III	 Regular II	 Dense I			

## Guidelines

- Start at the top of the column with the Ø2.2 mm twist drill.
- Move down to the next marking for the chosen bone quality and prepare the site with the drill corresponding to that marking.

Drill step for Soft bone not intended for **Regular and Dense bone** (indicated with dash style).

Drill step for Regular bone required before drill step for **Dense bone**.

Drill step for **Dense bone** does not require drilling to full depth.

## Additional notes

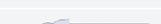
The Tapered implant allows for further under-preparation in Soft bone.

Screw taps available but not required.

In presence of dense bone, additional care is taken during insertion. The thread cutting and forming design of the implant acts as a screw tap. Use reverse torqueing 1/2–1 turn before continuing.

Twist drill Ø2.2, Dense bone drills and screw taps in the ProActive Tapered implant drill protocol are the same bone cutting instruments as used for ProActive Straight implant drill protocol.

## ProActive Edge Implants

	ProActive Edge Ø3.5 mm	ProActive Edge Ø4.0 mm	ProActive Edge Ø4.5 mm	ProActive Edge Ø5.0 mm	Drill Stop
 Ø2.2 S					
 Ø3.0 T					
 Ø3.4 T					
 Ø3.9 T					
 Ø4.4 T					
 Countersink	Ø3.5 E	Ø4.0 E	Ø4.5 E	Ø5.0 E	

**Bone quality**     Soft (IV & III)     Regular (II)     Dense (I)

### Guidelines

- Start at the top of the column with the Ø2.2 mm twist drill.
- Move down to the next marking for the chosen bone quality and prepare the site with the drill corresponding to that marking. Dashed markings are non-mandatory unless it is the last preparation step.
- Keep moving down the column until the final preparation is performed at the chosen bone quality marking.

*Example: The drill sequence for a Ø4.0 implant in dense bone starts with the Ø2.2 mm twist drill followed by the final preparation step (Ø3.4 T). The dashed Ø3.0 T drill step can be omitted.*

Use of a countersink is not required in situations where under-preparation of the cortical bone is desirable, as for soft bone, in order to increase cortical anchorage.

*Note: The guiding portion of the Countersink Edge is designed to match the drill for regular bone. If a narrower osteotomy for soft bone needs countersinking it might be required to widen the cortical part of the osteotomy first with the regular bone drill to seat the countersink properly.*

### Additional notes

*The Edge implant allows for further under-preparation in Soft bone.*

*In presence of dense bone, additional care is taken during insertion. The thread cutting and forming design of the implant acts as a screw tap. Use reverse torqueing 1/2–1 turn before continuing.*

*Neoss screw taps are not compatible with the ProActive Edge implant. The drills are the same bone cutting instruments as used for ProActive Tapered.*

## 2.2.4 Surgical Drills

The Neoss Implant System is available in 7 diameters Ø3.5, Ø4.0, Ø4.5, Ø5.0, Ø5.5, Ø6.0 and Ø6.5, all with the prosthetic Standard Platform (SP), and in addition there is a narrow Neoss Ø3.25 mm implant with the prosthetic Narrow Platform (NP). Neoss Implant System Drill Kits contain the recommended drills for the placement of Neoss Straight, Tapered and Edge implants. All for regular bone Drills, Countersinks and Screw Taps are available separately. Neoss offers drills for single use (single patient only) which are delivered in a sterile condition for immediate use. If the sterile barrier is broken the drills can be re-sterilized, described in section 2.4.

Neoss also offers drills for multiple use.

Art. No.	Items Included
41193	Drill Kit, Straight Implants Ø3.5–5.0
41192	Drill Kit, Tapered Implants Ø3.5–5.0
41177	Drill Kit, Edge Implants Ø3.5–5.0
51187	Neoss Surgical and Prosthetic Tray – ProActive® Straight
51188	Neoss Surgical and Prosthetic Tray – ProActive® Tapered
51189	Neoss Surgical and Prosthetic Tray – ProActive® Edge

*Note: Specific lasermarkings on shafts for identification: S for Straight, T for Tapered, E for Edge.*

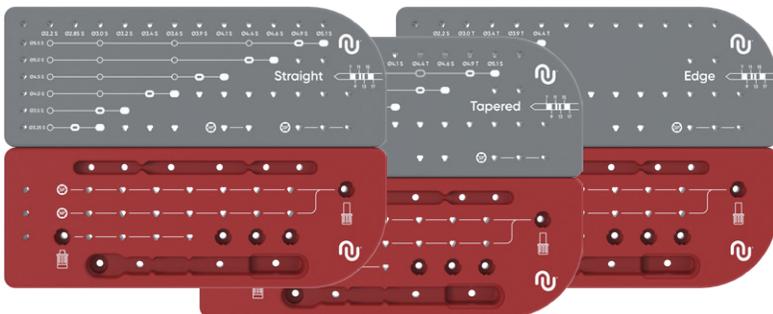
### Surgical and Prosthetic Trays

The Neoss Surgical and Prosthetic Trays are designed as two interlocking parts for surgery, instruments and layout. These can be used in combination or individually. Made of highly durable silicone they are easily cleaned and sterilized (100 cycles and up to 1 year).

The grey surgical part of the tray offers clear markings for drill selection and depth on one side and storage for instruments during sterilization on the other.

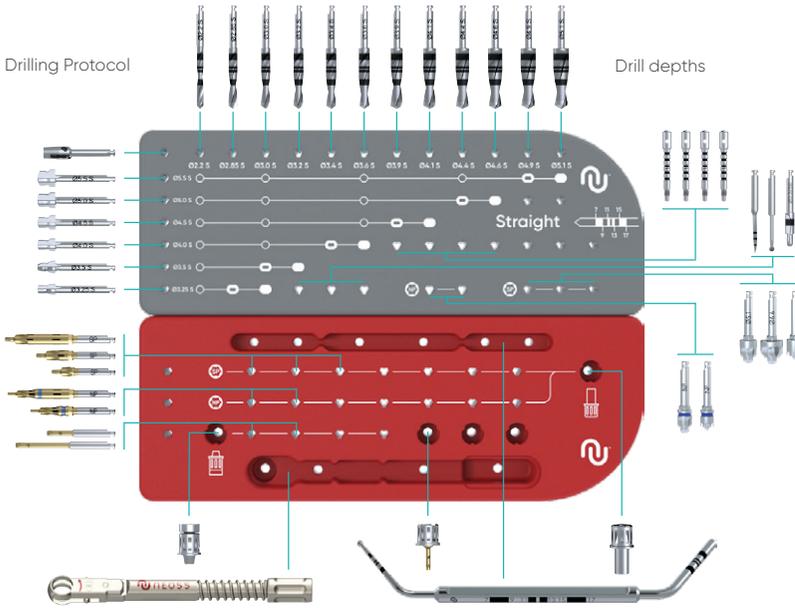
*Note: The red part offers markings for instruments needed during installation of implants and abutments. The surgical and prosthetic trays are marked with 'Edge', 'Tapered' or 'Straight' respectively.*

*Note: It is possible to combine the drill set-up sections for ProActive Tapered, ProActive Edge and ProActive Straight implants.*



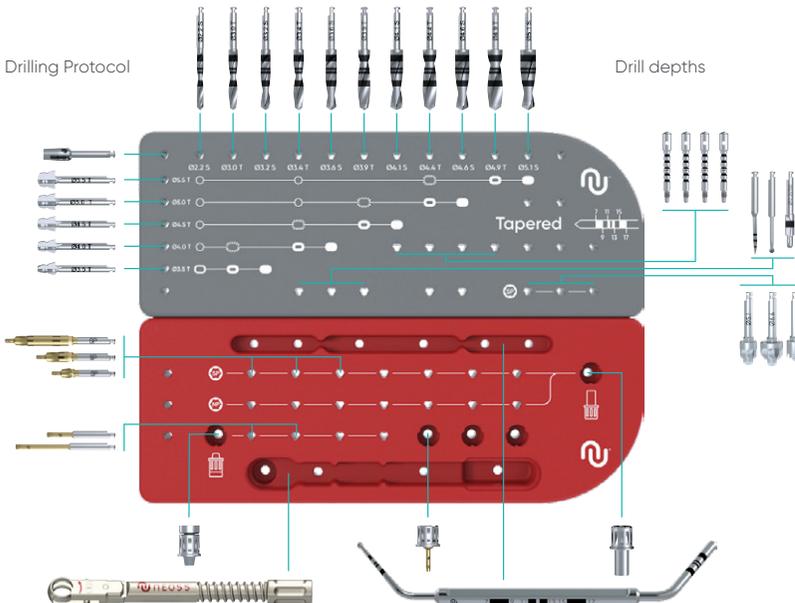
# ProActive Straight Implants

## Surgical and prosthetic setup



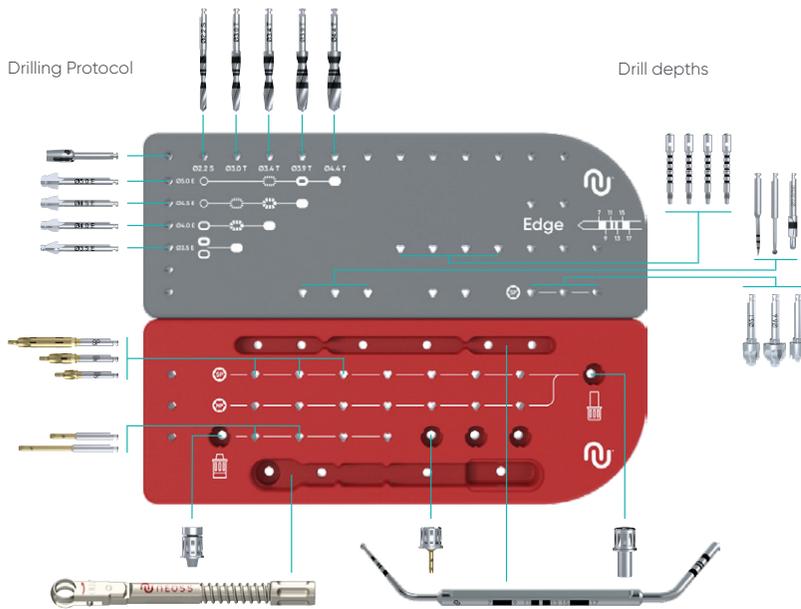
# ProActive Tapered Implants

## Surgical and prosthetic setup



# ProActive Edge Implants

## Surgical and prosthetic setup



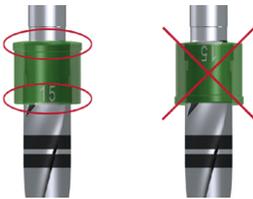
## Neoss Drill Stops

Neoss drill stop solution satisfies all clinical needs and provides improved safety, control and efficiency. The Drill Stops enable precise depth control during preparation of implant sites for the placement of Neoss System implants. Neoss Drill Stops are compatible with Neoss drills with corresponding diameters including Neoss Tapered drills.

The assortment consists of a separate kit for implant lengths 7 – 15 mm. Each kit includes five Drill Stops of different diameters which correspond to final recommended drill diameters in regular bone. These are delivered sterile and are color coded: clear  $\varnothing 2.2$ , green  $\varnothing 3.0$ , yellow  $\varnothing 3.4$ , blue  $\varnothing 3.9$  and peach  $\varnothing 4.4$ .



Drill stop marking



Correct mounting

Incorrect mounting

### Clinical Procedure

The Drill Stop is mounted on the corresponding drill and secured by a light push. Ensure that the mounted Drill Stop is correctly chosen and seated to the right depth by checking the corresponding depth marking on the drill. After use, the drill stop is removed by a light pull and discarded. The Drill Stops are single use only.

*Note: The drill stop must be mounted with the flange and marking directions as shown.*

*Note: Neoss Short Drills (7 – 13 mm) are NOT compatible with Neoss Drill Stops.*

### Contraindications

Neoss Drill Stops are not indicated in extraction sites as it may be difficult to accurately judge the depth of the stop.

In cases with uneven bone, the drill stops have to be removed for complete or partly submerged implant placement.

### Example

Preparing an implant site for a 4 × 11 mm implant requires use of  $\varnothing 2.2$ , 3.0 and 3.4 mm drill stops from Neoss Drill Stop 11 mm.



Depth guide

## 2.3 Restorative Assistant Guidelines

The Neoss Implant System is available in 7 diameters Ø3.5, Ø4.0, Ø4.5, Ø5.0, Ø5.5, Ø6.0 and Ø6.5, all with the prosthetic Standard Platform (SP), and in addition there is a narrow Neoss Ø3.25 mm implant with the prosthetic Narrow Platform (NP).

Neoss engaging abutments have deformation lugs which minimise rotational movements and secures a distinct seating.

There is only one screwdriver connection in the assortment, the Neo screwdriver, and this is used for all components including cover screws, healing abutment screws, and final abutment screws.

Neo Abutment Screw is a high performance screw which enables a high clamping force between the abutment and the implant.

Generally the patient will present to the restorative surgery with a healing abutment in place. In the majority of cases the impression will be taken at 'Implant Level', however some abutments allow for their preparation intraorally – similar to that of a natural tooth – in these cases a conventional crown and bridge impression protocol would be followed.

The Neoss System offers one universal Implant Level Impression Coping for both 'Open' and 'Closed' Tray impression techniques and one Impression Coping for 'Open Tray' impression only.

The Neoss Implant System offers patients a broad range of aesthetic and functional solutions.

These are available as cemented or screw-retained options, overdenture and CAD/CAM designed prostheses.

*Note: Please refer to the information in this manual for procedures and information in relation to:*

- Esthetiline Solution
- Provisional Abutments
- Impression Techniques
- NeoLink® – the Concept
- Single Unit and Multiple Unit Construction
- Titanium Prepable Abutments
- Zirconia Abutments
- Access Abutments
- Overdenture Solutions

### 2.3.1 Prosthetic Tray and Instrument Kit

The tray holds the Neoss ratchet, manual handle and Neo screwdrivers and includes spare slots for additional components. The lid is easy to remove, and the base design allows for easy access to instruments.

Made of a highly durable silicone and with no grommets, the tray is easily cleaned and sterilized (100 cycles and up to 1 year).



## 2.4 Cleaning, Disinfection, Sterilization, Storage and Lifetime

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Regarding instructions for cleaning, disinfecting, sterilization and storage of Neoss Reusable Products please refer to IFU Cleaning and Maintenance of Neoss Reusable Products (14077).

All prosthetic products and dental instruments that are delivered non-sterile must after removal of the protective transport packaging be cleaned and if required sterilized before use. This also applies for prepared abutments coming from lab.

### **Sterilization of zirconia:**

You may only sterilize the abutment one time. In case of inadvertent contamination, you may re-sterilize one time after cleaning and disinfection.

#### **Steam sterilization:**

- fractionated vacuum procedure or gravity procedure (with sufficient product drying)
- steam sterilizer according to EN 13060 and EN 285 respectively or equivalent national standards
- validated according to EN ISO/ANSI AAMI 17665 (in past: EN 554/ANSI AAMI ISO 11134) (valid IQ/OQ (commissioning and product specific performance qualification))
- sterilization time 20 minutes at 121°C (250°F) or 3 minutes at 132°C (270°F) (listed exposure times are at sterilization temperature)

It's the responsibility of the clinic to educate the staff in the recommended procedures and to ensure that appropriate equipment and cleaning agents are available in order to achieve the desired result (EN ISO 17664). It's also the responsibility of the clinic to ensure that the equipment used is properly maintained and calibrated.

### **Storage**

Sterilized bags are stored in dry environment at room temperature.

### **Lifetime of reusable products**

Please refer to IFU Cleaning and Maintenance of Neoss Reusable Products (14077) to find guidelines how to decide when a reusable product is outworn and needs to be exchanged.

## 2.5 Oral Hygiene and Patient Care \_\_\_\_\_

As with natural dentition, dental implants/prosthesis are susceptible to plaque build-up which may have a detrimental affect on the long term success of the prosthesis. It is therefore of vital importance that the patient is carefully instructed on the importance of regular check-ups and 'home care'. Following insertion of the final prosthesis the patient should be instructed in the routine for home care. When instructing patients how to maintain their implant supported prosthesis it should be remembered that some patients may not have had natural teeth for some time. Therefore individualized and thorough instruction on 'how to clean' should be developed for each patient. This may include the recommendation of certain toothbrushes, mouth rinses, dental floss or interdental cleaning aids.

Titanium is a soft metal and therefore the use of abrasive toothpastes or instruments which may scratch the abutment should be avoided.

In addition to 'home care' it is recommended that the patient be checked regularly in the first 12 months after prosthesis insertion. The dentist would include in the check-up the stability of the prosthesis, the occlusion, surrounding soft tissues and the patient's ability to maintain a high level of 'at home' oral hygiene.

## 2.6 General Packaging Symbols \_\_\_\_\_

USE BY/EXPIRY DATE 	CATALOGUE NUMBER <b>REF</b>	LOT/BATCH NUMBER <b>LOT</b>	DO NOT RE-USE (Single use only)* 	TEMPERATURE LIMIT 
KEEP AWAY FROM SUNLIGHT 	MANUFACTURER 	DATE OF MANUFACTURE 	STERILIZED USING ETHYLENE OXIDE <b>STERILE   EO</b>	STERILE BY IRRADIATION (Contents of inner package sterile) <b>STERILE   R</b>
NON-STERILE 	DO NOT USE IF PACKAGE IS DAMAGED 	MEDICAL DEVICE <b>MD</b>	CONSULT INSTRUCTIONS FOR USE (Also available on <a href="http://www.neoss.com/IFU">www.neoss.com/IFU</a> ) 	CAUTION: Federal (USA) law restricts the sale of this device to or on the order of a licensed physician or dentist <b>Rx only</b>

\*Single use devices should not be reused due to risks of product contamination, patient/user infection and/or failure of the device to perform as intended.

# Disclaimer of Liability

Neoss products may only be used according to the manufacturers' instructions and recommendations.

The user of Neoss products should determine their suitability for particular patients and indications.

Neoss Limited disclaims any liability, expressed or implied, and shall have no responsibility for any direct, indirect, punitive or other damages arising out of or in connection with any errors in professional judgement or practice in the use or placement of the Neoss products.

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Caution:

Federal (USA) law restricts this device to sale by or on the order of a licensed dentist or physician.



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W [www.neoss.com](http://www.neoss.com)



The Neoss implant assortment has FDA clearance for immediate placement and function recognizing sufficient bone stability and appropriate occlusal loading to restore chewing function.