Individual Prosthetics

Installation and Ordering Guidelines
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1 Neoss Offer

Neoss offers a simple and reliable solution of implant-supported bars, bridges and abutments, which, in addition to the proven Neoss Implant System, are compatible with implants of other manufacturers.

Features and benefits of Neoss Individual Prosthetics include:
- Available in Titanium or Cobalt Chromium and Zirconia (Individual Abutment)
- Suitable for veneering with composite or porcelain
- Fixed-removable restorations with attachments are possible (PRECI-VERTIX®, PRECI-HORIX® and Equator)
- Compatible with numerous suppliers (see table below)
- High performance abutment screws are compatible with the original manufacturer's screwdrivers
- All individual abutments are produced from pre-made blanks for highest accuracy
- Angulated screw access solution
- Libraries with integrated soft tissue profiles matching Neoss Esthetiline shapes

### Available Platforms

<table>
<thead>
<tr>
<th>Connection</th>
<th>Platform</th>
<th>Individual Abutment</th>
<th>Bridge</th>
<th>Bar</th>
<th>Scan Bodies</th>
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<tr>
<td></td>
<td></td>
<td>Ti</td>
<td>CoCr</td>
<td>ZrO</td>
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<td>Neoss®</td>
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</table>
| Nobel Biocare®
NobelReplace® | 3.5 NP | ☒   | ☐   | ☒  | ☒   | ☒   | ☐  | ☐   | ☐   |            |
|            | 4.3 RP   | ☒   | ☒   | ☐  | ☐   | ☒   | ☐  | ☐   | ☐   |            |
|            | 5.0 WP   | ☒   | ☒   | ☐  | ☐   | ☒   | ☐  | ☐   | ☐   |            |
|            | 6.0      | ☒   | ☒   | ☐  | ☐   | ☐   | ☐  | ☐   | ☐   |            |
| Nobel Biocare®
Conical Connection (CC) | NP | ☒   | ☐   | ☒  | ☒   | ☒   | ☐  | ☐   | ☐   |            |
|            | RP       | ☒   | ☒   | ☒  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | WP       | –     | –   | –   | ☒   | ☐   | ☐  | ☐   | ☐   | ○           |
| Nobel® Multi-unit | RP | –     | –   | –   | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | WP       | –     | –   | –   | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
| Dentsply®
ASTRA TECH®
OsseoSpeed® | 3.0 | ☒   | ☒   | ☐  | –   | –   | –   | –   | –   | ○           |
|            | 3.5/4.0 | ☒   | ☒   | ☐  | –   | –   | –   | –   | –   | ○           |
|            | 4.5/5.0 | ☒   | ☒   | ☐  | –   | –   | –   | –   | –   | ○           |
| Straumann® Bone Level | 3.3 NC | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 4.1/4.8 RC | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
| Straumann® Standard | RN/WN | ☐   | ☐   | –   | ☐   | ☐   | –   | –   | –   | ○           |
| Zimmer® Screw-Vent® | 3.4/4.5 | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 5.7      | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
| Nobel Biocare®
Brånemark System® | NP | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | RP       | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | WP       | –     | –   | –   | ☒   | ☐   | ☐  | ☐   | ☐   | ○           |
| Biomet 3i External Hex | 3.25 | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 4.1/5.0/6.0 | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
| Biomet 3i Certain® | 3.4 | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 4.0/5.0/6.0 | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
| Dentsply XiVE® | 3.3 | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 4.3      | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 4.8      | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 4.5/5.5  | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
| CAMLOG® | 3.3 | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 3.8      | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 4.3      | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |
|            | 5.0/6.0  | ☒   | ☒   | ☐  | ☒   | ☒   | ☐  | ☐   | ☐   | ○           |

Other systems available on request
- ☐ = Now available
- ☐ = Not yet available
- ☐ = Available on request
- ☐ = Can be delivered with angulated screw channel
Restorations

Individual Abutment
Individual Abutments are available in Titanium. Only Neoss System Individual Abutments are available in Cobalt Chromium and Zirconia, at this time.
Neoss System Individual Abutments are fully customisable and include the same strong connection and screw found across the Neoss Implant range.
Esthetic soft tissue profiles created during healing can be replicated on final restorations, see sections 4 and 5 for more information.
Note: Maximum dimensions for abutments, Ø15 x 15 mm when centred (Ø10 x 15 mm if narrow implants).

Bars and Bridges
All bars and bridges are available in Titanium and Cobalt Chromium.

Dolder-bar
There are four standard dolder-bar shapes to choose from:
Primary Bar straight
Primary Bars are indicated for three or more implants.
Dolder-bar, Macro 3 x 2.2 mm
Dolder-bar, Micro 2.3 x 1.6 mm
Dolder-bar Eggshape, Macro 3 x 2.2 mm
Dolder-bar Eggshape, Micro 2.3 x 1.6 mm

Bar with attachments
Bars can be produced with custom attachments:
- Equator
- PRECI-VERTIX®
- PRECI-HORIX®

Bridge
Both full and partial bridges are fully customisable to your specification.
Note: Bars and bridges can be produced up to a design height of 25 mm.

Angulated screw access solution
Neoss offers angulated screw channels up to 25° for following products:
- Neoss Individual Abutment (3.5-6.0) in Ti and CoCr
- Neoss Bridge (3.5-6.0) in Ti and CoCr
The following versions and higher of the Neoss Brand Library are compatible with angulated screw channels:
- 3shape: Neoss Brand Library 0.8
- Exocad: Neoss Brand Library 0.5
- DWOS: Neoss Brand Library 0.4
For those customers who can’t angle the screw channel in design software a dot on the surface can be placed to define the screw access hole. Please note: if the angle will be more than 25° our production team will correct the position to the maximum.

It is also possible to send a waxup to Neoss Scan Centre with a dot marking the access hole. We will place the angulated screw channel to your requirements.

Attachments and retaining elements
Attachments are used as additional support for implant retained bars. A dolder-segment can be used as a retaining element in combination with another shaped bar when attaching an acrylic denture.
The following components are available:
- Dolder-bar – Eggshape/Parallel, Micro/Macro
- Ceka, PRECI-VERTIX®, PRECI-HORIX®
- Equator
Instructions for Processing

Dolder-bar
For the latest manual and product information please visit the Cendres+Métaux website www.cmsa.ch

Ceka, PRECI-VERTEX®, PRECI-HORIX®
For the latest manual and product information please visit the Ceka website www.ceka-preciline.com

The original processing auxiliary part is required in the processing of the PRECI-HORIX® placeholder, 1703.

2 Installation and Settings

The 3shape Dental Manager with Abutment Designer and Bars/Bridges or Exocad System with Implant and/or Bars module Plug-in is required for designing Neoss Individual Prosthetics when scanning models in the laboratory. The Neoss Library is compatible with the D700 3shape scanner or later and all Exocad and Dental Wings high precision scanners.

Downloading the Neoss Library

1. To download the Neoss Library visit www.neoss-cadcam.de
   Select the correct country to toggle to your local site.

2. Click “Register” on the login page and fill in all the required information. Accept the terms and conditions and choose a safe password.
   The form will be sent to Neoss HQ where we will review your details.

3. Once you receive the confirmation mail you are able to login.
   Login and select the “Neoss Library” from the products page.
   The library will be updated periodically and you will be informed by email of any updates.

4. Please choose the library for your preferred design software.

5. When prompted to ‘open’ or ‘save’ the file, select ‘save as’. Save the file to a convenient place on your computer.

Equator
Please refer to the Neoss Manual (10501 EN, 10514 DE) for information regarding the processing of Neoss Equator.
The following item is required for processing:
- 90232 Neoss Equator Cap Tool

Instructions for Processing

Dolder-bar
For the latest manual and product information please visit the Cendres+Métaux website www.cmsa.ch

Ceka, PRECI-VERTEX®, PRECI-HORIX®
For the latest manual and product information please visit the Ceka website www.ceka-preciline.com

The original processing auxiliary part is required in the processing of the PRECI-HORIX® placeholder, 1703.

2 Installation and Settings

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Instructions for Processing

Dolder-bar
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Ceka, PRECI-VERTEX®, PRECI-HORIX®
For the latest manual and product information please visit the Ceka website www.ceka-preciline.com

The original processing auxiliary part is required in the processing of the PRECI-HORIX® placeholder, 1703.

2 Installation and Settings

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Equator
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The following item is required for processing:
- 90232 Neoss Equator Cap Tool
Installing the Neoss Library in 3shape Dental System™

1. Run 3shape Dental System™ Control Panel.

2. Open Import/Export in the Tools menu.

3. Select ‘Import materials’.

4. Locate the .dme-file (the library file) and press ‘open’.

5. Click ‘Import’.

6. If the File Import was successful, click ‘OK’.

7. Click Exit and save changes.

8. Before scanning select the appropriate prosthetic category (single, multi, angled and Esthetiline), implant system, diameter and material in the 3shape order form in Dental Manager.

Scanning with 3shape

Scanning Multiple Individual Abutments

The 3shape software will guide the designer through each stage of the scanning process but take care when scanning multiple Individual Abutments.

Aligning the CAD-model scan body with the geometry scan body must follow the logical order to ensure the scan conforms to the design parameters, as illustrated below.

Picture 1 – Aligning CAD-model to the first position

Picture 2 – Aligning CAD-model to the second position

Picture 3 – Aligning the CAD-model to the third position.
Installing the Neoss Library in Exocad

1. Be sure you have a license for the Implant module.
2. Unpack the content of the library file into directory: “Exocad based software”/DentalCADApp/library/implant
3. You can now choose the Neoss implants in the wizard.

Exocad settings
Search for ‘Neoss Brand Library’ in the wizard.

Selection of prosthetic type.
- Neoss Abutment-Kit: Abutments with non-rotation feature for single tooth restorations
- Neoss Bridge-Kit: Multi teeth restorations
- Neoss Angled-Kit: Mono and Multi with angulated screw channel up to 25°.
- Neoss Esthetiline Kit: Esthetiline mono abutment geometries.

For milling of individual zirconia prosthetics onto Neoss NeoLink® Titanium abutments choose ‘Neoss NeoLink Mono’ in Neoss Abutment-Kit or ‘Neoss NeoLink Multi’ in Neoss Bridges-Kit.

IO in the selection means intra-oral scan bodies.
Under this point you also find the model replicas for printed or milled models.

Scanning with Exocad

1. Place the ‘Match point’ onto the marked bevel of the scan body.
2. Click ‘Best Fit-Adaptation’
3. According your selections you can now begin with the design on Neoss implant parts.

Note: The Neoss Implant connection is protected and modified in the cam output. In case you want to receive products with implant connection you can send the files with our WebOrder system: www.neoss-cadcam.de
Installing the Neoss Library in Dental Wings

1. In Dental Wings Client, go to “Implant Kit”.

2. Right-click on “Implant Kits” and select “Import Implant Manufacturer Kits”.

3. Search for Neoss Library in Download folder and click open.

4. All items correctly installed.

Scanning with Dental Wings

Click on “Precise Positioning” after 3 Point Reposition of the scan body matching.

Start with the Design

For single abutments, maximum size is defined by the biggest blank size. If your design exceeds this limit, please choose “Cut automatically” to make sure your design is within the defined limit.

Note: The Neoss Implant connection is protected and modified in the cam output. In case you want to receive products with implant connection you can send the files with our WebOrder system: [www.neoss-cadcam.de](http://www.neoss-cadcam.de)
Detailed information regarding Scan Bodies can be found in sections 4 and 6. Please make sure the desired implant system is available before ordering. For more information, contact your Neoss Representative.

Option I: Sending a model and placing an order online

Neoss offer a quick and reliable scan and design service for those laboratories without a recommended scanner.

Neoss Australia does NOT offer a design service at this time – we only offer a copy mill service for customers without a scanner. Therefore customers without a scanner must provide a wax-up of the desired prosthesis and send together with the other specified items to the Neoss Scan Centre, AUS & NZ.

Placing an order

An online order is required by the Neoss Scan Centre.

You must complete an online order before shipping a physical model (www.neoss-cadcam.de). One order can be used for several Individual Abutments for the same patient. However, a separate order is needed to prescribe either the mandible or maxilla. Separate orders are needed per individual bar or bridge.

The Neoss Scan Centre requires the stone model with implant replicas along with the removable gingiva mask and a temporary denture in wax. Other items that will assist Neoss Production include the opposing jaw and the silicon bite. Collection of the model from the laboratory can be arranged through your local Neoss office.

Note: Ensure the model is securely packaged to avoid damage during transportation.

Temporary denture in wax Wax-up of the bridge

Bar in pattern resin Antagonist jaw

Scan and Production

The model will be scanned the day it is received at the Neoss Scan Centre and a 3D representation of the design will be made available for approval through the Neoss Individual Prosthetics website, www.neoss-cadcam.de, if appropriate. Alterations to the design can be requested at this stage. Once the design is approved the Neoss Individual Prosthetic will be fabricated by Neoss Production. See steps 6–9 in section ‘Placing an order online’.

Option II: Sending a file

Neoss can fabricate a Neoss Individual Prosthetic using scan and design files created in the laboratory.

Scanning a model

In order to scan a model you must have a D700 scanner or later, an Exocad or Dental Wings high precision scanner and the appropriate scan bodies.

One scan body is required for each implant and platform. They are used as an aid for locating the position and angulation of implant replicas when scanning the model and are required to achieve the appropriate accuracy.

Placing an order

Complete the online order form via www.neoss-cadcam.de and include the required scan and output files.

The required files are as follows;

3shape: .stl (design file) and .xml (implant position) files. To export the data, right-click the order in 3shape Dental System, select ‘CAM Output’ and save the files to your hard drive.

Exocad: .stl and construction.info files. The files are located in the “CAD-data” directory in your Exocad based software.

Dental Wings: Find both files, .stl and .xml in generated .zip container.

Upload the .stl file, .xml file (3shape, Dental Wings), construction.info file (Exocad) through the online ordering process on www.neoss-cadcam.de. One order can be used for several Individual Abutments for the same patient. However, a separate order is needed to prescribe either the mandible or maxilla. One order is needed per individual bar or bridge.

For more detailed information regarding placing an order through www.neoss-cadcam.de, see section ‘Placing an order online’.

Production

Once the order has been accepted by Neoss the production of the Neoss Individual Prosthetic will begin. Delivery information will be communicated by the ordering system.
## Order Process Flowchart

### Without Scanner

**Laboratory**
The laboratory fabricates the master model, wax-up and other items required by the Neoss Scan Centre, see section ‘Required items’.

**Laboratory**
The model, wax-up and other components are sent to the Neoss Scan Centre along with a completed online order. Collection of the model can be arranged.

**Neoss Scan Centre**
The Neoss Scan Centre scan and design the order immediately.

**Laboratory**
A virtual 3D representation of the design is sent via the web platform [www.neoss-cadcam.de](http://www.neoss-cadcam.de). At this point there is still chance to request changes. To view the design please install ‘WebViewer’ when prompted.

**Production**
Once the order is confirmed the laboratory will receive a delivery date and the product will be fabricated.

**Laboratory**
The Neoss Individual Prosthetic is received, the laboratory finalises the restoration and delivers it to the dental practice.

### With Scanner

**Laboratory**
The laboratory fabricates the master model.

**Laboratory**
The model, wax-up and other components are sent to the Neoss Scan Centre along with a completed online order. Collection of the model can be arranged.

**Neoss Scan Centre**
The Neoss Scan Centre scan and design the case using an open scanner and Neoss scan bodies. The file is sent using the online order process [www.neoss-cadcam.de](http://www.neoss-cadcam.de).

**Production**
Once the order is confirmed the laboratory will receive a delivery date and the product will be fabricated.

**Laboratory**
The Neoss Individual Prosthetic is received, the laboratory finalises the restoration and delivers it to the dental practice.

### Items required by the Neoss Scan Centre:
- Completed Online order
- Stone Model with a removable gingiva mask and Implant replicas
- Waxing
- Opposing jaw
- Bite (silicon)

### Placing an Order Online

1. To place your order online visit [www.neoss-cadcam.de](http://www.neoss-cadcam.de).
   Click the correct country in the upper right corner to toggle to your local site.
   To place your order, login and select the product you want.
   If you have not registered for a customer account, please follow the steps in Section 2: Downloading the Neoss Library.

2. Select the correct product:
   - Individual abutments
   - Bridges
   - Bars
   - Dolder-bars

### Laboratory/Practice Requirements:
- Open scanner with Abutment designer and Bar and Bridge-module
- Neoss Library for 3shape, Exocad or Dental Wings
- Scan bodies, one for each Implant
- Screwdriver

*For Clinical Procedure please refer to the Neoss System Guidelines.*
3. Fill in the required information (material, implant platform...) and proceed to the checkout page once it is completed. Here you can enter your invoice address (will be retained for further orders and for the life of the product) and different delivery address if needed. Accept the T&C’s and if appropriate select your scan and design files (.stl,.xml or construction.info). You can select all files at once. Upload selected files and wait until it’s ready. Click on “Place Order” to submit the case to Neoss Scan Centre. In case you want to add different items for the same patient just go back from your cart to the products page as often you want. Proceed with the order after entering all items in the cart. Note a separate order is needed to prescribe either the mandible or maxilla. One order is needed per individual bar or bridge.

4. You can find all placed orders in your account including a status of processing.

5. Once the order is processed a confirmation with a temporarily order number will be sent to your email address. If you are sending a model ensure this number is written on the model before sending.

6. You will be informed with the delivery date by email.

7. If you have sent a model, the Neoss Scan Centre will contact you when the 3D representation of the design is available for inspection. When it is ready you will receive an email.

8. Login to www.neoss-cadcam.de and go to “Design Proposal” to view the 3D representation of the design. Note: WebPlayer is compatible with all browsers and on mobile devices.
9. Use the ‘Design Confirmation’ box on the right hand side of the page to accept and confirm the design.

Accept
Fill in the 6-digit order number you will find left to the patient name and click ‘Submit’. Neoss Production will begin fabrication.

Reject
Fill in the 6-digit order number you will find left to the patient name, select ‘Please following changes’ from the drop down menu and list all the required changes in the ‘Changes’ box. Click ‘Submit’. The Neoss Scan Centre will make the requested changes and update the 3D representation of the design. Follow the process from step 8.

4  Scan Bodies

Scan Bodies are available for multiple implant systems (see table in section 1) and are marked with the platform for ease of selection. The same Neoss Scan Body Screwdriver is used for all scan bodies regardless of platform.

Neoss Intra-Oral Scan bodies can be used for intra-oral or laboratory use. They are intended as an aid for determining positions and angulation of implants or implant replicas, using an intra-oral scanner or desktop 3D scanner. The scan bodies are only to be used with the original screw driver and an original digital library. The scan bodies are designed to fit original branded replicas and implants and are therefore needed to guarantee the required accuracy.

Before scanning make sure the implants or replicas are clean on the top surface and are in no way worn within/on the indexing. Make sure to choose the correct implant/replica for scanning. Look to the ‘Available Platforms’ chart in section 1 for assistance. The scan body is placed on the implant/replica and is fixed by tightening the screw, with the original Neoss Scan Body Screwdriver. Do NOT tighten the screw hard, but rather just lightly by hand until a point where the scan body is lightly secured on top of the implant/replica (max. 5 Ncm). The scan body is a precision component and may suffer damage from being tightened hard.

Prosthetic type selection and scan body matching
For selection of prosthetic type and scan body matching refer to the following sections in the Neoss Brand Library:
Neoss Abutment-Kit: Abutments with non-rotation feature for single tooth restorations with scan body (IO)
Neoss Bridge-Kit: Multi teeth restorations with scan body (IO)
Neoss Angled-Kit: Mono and Multi with angulated screw channel up to 25° with scan body (IO)
Neoss Esthetiline-Kit: Esthetiline mono abutment geometries with ScanPeg or scan body (IO)
(This kit includes the Neoss scan body (IO) or ScanPeg in combination with the Esthetic Healing Abutment and is used when designing an individual abutment with the same marginal contour as the Esthetic Healing Abutments).

After scanning the scan body is loosened from the implant/replica and placed in the kit for safe keeping.

5  ScanPeg

The ScanPeg is a scan body momentarily fitted in the screw access hole of the Neoss Esthetic Healing Abutment. The combination of these two components is used to take a digital impression without removing the healing abutment from the implant. This determines the position and angulation of an implant in relation to the adjacent teeth and soft tissue. The intended use is for single unit restorations only.

Prosthetic type selection and scan body matching
For selection of prosthetic type and ScanPeg matching refer to the following section in the Neoss Brand Library:
Neoss Esthetiline-Kit: Esthetiline mono abutment geometries with ScanPeg or Scanbody (IO)
(This kit includes the Neoss ScanPeg or ScanBody (IO) in combination with the Esthetic Healing Abutment and is used when designing an individual abutment in Ti, CoCr or ZrO, preferably with the same marginal contour as the Esthetic Healing Abutments).

For more information please see Instructions for Use 11926, Esthetic Healing Abutments with ScanPeg.
Guidelines

Reference to clinical handling

Please refer to the Neoss System Guidelines for information regarding Clinical Procedure and Fastening a Custom Made Construction (10501) and to Instructions for handling and using the Neoss scan bodies (11609). For individual Zirconia abutments please refer to section ‘Zirconia Abutments’ in 10501.

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