



# Neoss Matrix Manual

# Neoss Matrix System

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## Introduction

The Neoss Matrix System has been designed to facilitate the fabrication of custom designed gold, titanium, other alloys and ceramic abutments or frameworks, each having a precision machined fit. The Neoss Matrix System can be utilized in the production of cement or screw retained implant prosthesis and is compatible with a range of dental implant systems offered by other manufacturers and suppliers. Some of the compatible dental implant systems are listed below.

- Brånemark System® RP, Biomet 3i & generic Ø3.75mm and 4.0mm external hex implants
- Brånemark System® NP 3.5mm
- Replace™/NobelReplace® Ø4.3mm
- Replace™/NobelReplace® Ø3.5mm
- Straumann® Ø4.8 mm

Matrix abutments are available in gold and titanium.

Neoss Matrix System offers an efficient high accuracy prosthetic solution, while ensuring optimum quality control and offering an economical solution with numerous technical benefits.

The Matrix Aesthetic Abutments Titanium range, with its 0.3mm low collar height, offers a unique opportunity to use a wide range of CAD/CAM equipment for dental implant prosthetics in addition to conventional crown and bridge restorations.

## Abutments

Abutments and frameworks may be produced in Zirconia or other options such as gold, titanium, chrome cobalt or they may be CAD/CAM produced while maintaining the accuracy and tolerances obtained from machined components. This is possible due to the NeoLink™, which is a precision machined component made of gold or c.p. titanium providing the interface between implant and abutment framework.

The preformed plastic anatomical copings provide a complete range of abutments designs for various teeth, emergence profiles, heights and angulations.

The Matrix Aesthetic Abutments Titanium, art no 31171-31180 are delivered with abutment and laboratory screws, while the Matrix Abutments Gold are delivered without screws. Please refer to section below concerning screw availability and compatibility.

Neoss Matrix System abutments are available for restoration of a single crown (Mono) or bridgework (Multi):

Neoss Matrix Aesthetic Abutments Titanium are supplied as kits comprising:

- 1 x NeoLink™ titanium with a low 0.3mm height collar.
- Set of preformed plastic copings
- 1 x Abutment Screw
- 1 x Laboratory Screw

Neoss Matrix Abutments Gold are supplied as kits comprising:

- 1 x NeoLink™ gold with a 0.7mm height collar
- Set of preformed plastic copings

Once the appropriate system implant replica/s have been identified on the master model, the corresponding crown (Mono) or bridgework (Multi) NeoLink™ is selected in either gold or titanium. A custom abutment or framework is produced by combining the most appropriate design of plastic anatomical coping with the desired NeoLink™.

For information and instructions about NeoLink™ - the Concept, Single Unit and Multi Unit Constructions, Double Scan - Milled Constructions, Direct Investing - Casting, Indirect Investing - Framework Bonding and Technical Data please corresponding sections in Neoss User Guidelines, doc no 10501.

Note:

- *When using Neoss Matrix Abutments please use the specific manufacturer's components and follow their published recommended guidelines for implant level impression techniques.*
- *When the single unit crown is to be constructed from a ceramic or Zirconia material either CAD/CAM or pressed, then it is recommended that the Neoss Matrix Aesthetic Abutment Ti, Mono is used. This NeoLink™ has a collar height of only 0.3mm.*
- *The divergence or convergence is dependent on the tolerances of the individual implant system.*
- *Once the fit has been verified during placement, the restoration is tightened to the manufacturer's recommended torque. For Neoss RP screws – 32 Ncm and for the Neoss NP screws – 20 Ncm.*
- *Laser welding of the Matrix Aesthetic abutments are not recommended since the low collar height, 0.3 mm, might impair the welding result.*

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