

Instructions for use

Prosthetic Components for dental restoration.

Description: Prosthetic Components for dental restoration under CE-Series, CL-Series, CN-Series, CH-Series, CF-Series, CR-Series, CS-Series.

Indications: Abutment Direct Inc. manufactures dental abutments and restorative components designed for the restoration of dental implant treatment including single tooth and multi-tooth restorations. The individual abutments can be combined with copings, crowns or suprastructures made of dental ceramics.

The prosthetic components of the E-Series are indicated for Nobel Replace Straight Groovy®, Replace Select Tapered®, Replace Select Straight®, Nobel Replace Tapered Groovy®, NobelSpeedy Replace®, NobelReplace platform shift®, manufactured by Nobel Biocare®.

Article Number of Prosthetic Components and Abutment Screws

Nobel Replace®	3.5mm	4.3mm	5.0mm	6.0mm
Prosthetic components for E-Series	CE100 CE100-1 CE200-1-1 CE200-2-1 CE200-1 CE200-2 CE400 CE500-1 CE500-2	CE110 CE110-1 CE210-1-1 CE210-2-1 CE210-1 CE210-2 CE410 CE510-1 CE510-2	CE120 CE120-1 CE220-1-1 CE220-2-1 CE220-1 CE220-2 CE420 CE520-1 CE520-2	CE130 CE130-1 CE230-1-1 CE230-2-1 CE230-1 CE230-2 CE430
Abutment Screw	CE60	CE61	CE61	CE61

The Prosthetic Components of the F-Series are indicated for NobelActive™ implants, manufactured by Nobel Biocare®.

Article Number of Prosthetic Components and Abutment Screws

NobelActive™	3.5mm-NP	4.3mm/5.0mm-RP
Prosthetic Components F-Series	CF100 CF100-3 CF200-1 CF200-2 CF200-1-3 CF200-2-3	CF110 CF110-3 CF210-1 CF210-2 CF210-1-3 CF210-2-3

	CF400 CF500-1 CF500-2	CF410 CF510-1 CF510-2
Abutment Screw	CF60	CF61

The Prosthetic Components of the H-Series are indicated for Biomet 3i Certain® implants, manufactured by Biomet 3i®.

Article Number of Prosthetic Components and Abutment Screws

Biomet 3i Certain®	3.4mm	4.1mm	5.0mm
Prosthetic Components H-Series	CH100 CH100-3 CH200-1 CH200-2 CH200-1-3 CH200-2-3 CH400 CH500-1 CH500-2	CH110 CH110-3 CH210-1 CH210-2 CH210-1-3 CH210-2-3 CH410 CH510-1 CH510-2	CH120 CH120-3 CH220-1 CH220-2 CH220-1-3 CH220-2-3 CH420 CH520-1 CH520-2
Abutment Screw	CH60	CH60	CH60

The Prosthetic Components of the L-Series are indicated for Bone Level implants, manufactured by Straumann®.

Article Number of Prosthetic Components and Abutment Screws

Bone Level implants	3.3mm-NC	4.1mm/4.8mm-RC
Prosthetic Components L-Series	CL100 CL100-3 CL200-1 CL200-2 CL200-1-3 CL200-2-3 CL400 CL500-1 CL500-2	CL110 CL110-3 CL210-1 CL210-2 CL210-1-3 CL210-2-3 CL410 CL510-1 CL510-2
Abutment Screw	CL60	CL60

The Prosthetic Components of the N-Series are indicated for synOcta® implants, manufactured by Straumann®.

Article Number of Prosthetic Components and Abutment Screws

synOcta® implants	3.5mm-NN	4.8mm-RN	6.5mm-WN
Prosthetic Components N-Series	CN100 CN200 CN400	CN110 CN110L CN210-1 CN210-2 CN410(requires CN62) Internal screw not required for following parts: CN110-40 CN110-55 CN110-70	CN120 CN220-1 CN220-2 CN420(requires CN61) Internal screw not required for following parts: CN120-40 CN120-55
Abutment Screw	CN60	CN61	CN62

The Prosthetic Components of the R-Series are indicated for Tapered Screw-vent® implants, manufactured by Zimmer®.

Article Number of Prosthetic Components and Abutment Screws

Tapered Screw-vent®	3.5mm	4.5mm	5.7mm
Prosthetic Components R-Series	CR100 CR200-1 CR200-2 CR400	CR110 CR210-1 CR210-2 CR410	CR120 CR220-1 CR220-2 CR420
Abutment Screw	CR60	CR60	CR60

The Prosthetic Components of the S-Series are indicated for OsseoSpeed® implants, manufactured by Astra Tech®.

Article Number of Prosthetic Components and Abutment Screws

OsseoSpeed®	3.5mm/4.0mm	4.5mm/5.0mm
Prosthetic Components S-Series	CS100 CS100-3 CS200 CS200-3 CS110 CS110-3 CS210 CS210-3 CS400 CS500	CS120 CS120-3 CS220 CS220-3 CS420 CS520-1

Abutment Screw	CS60	CS61
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Each Prosthetic Component is delivered with an abutment screw for fixation on the implant.

The article number is the order number.

Composition: Abutment and Abutment Screw made from titanium Ti6Al4V medical grade 5, ASTM 136.

Instruction for clinician: Close cooperation between surgeon, restorative dentist, and dental laboratory technician is required for successful implant treatment. Abutment Direct Inc. abutments include an internal screw to attach the dental abutment to the dental implant. Please follow the recommended torch levels specific to the implant-abutment combination in your Abutment Direct catalogue. If you do not have a catalogue, please contact 1-905-604-0465 to order our catalogue. We recommend that clinicians, new and experienced users, go through training on any new product concepts they encounter. Abutment Direct Inc. provides hands-on guidance to all customers. Contact your local Abutment Direct Inc. representative for more information.

Contraindications: The Abutments of each Series can only be combined with the matching implant, e.g. the E-Series shall be combined exclusively with Nobel Replace® implants. They cannot be combined with implants of a different implant type or manufacturer. The diameter of the Abutment must correspond in size to the used implant in order to prevent peri-implant tissue irritation.

The Abutments are indicated for single use only. If they are used multiple times, they might damage the implants.

For fixation of the Abutment on the implant, the correct torque force, recommended by the implant manufacturer, has to be considered carefully to avoid the damage of the implant-bone connection.

Ncm	Abutment			
20	H-Series			
25	S-Series			
30	R-Series			
35	N-Series	E-Series	L-Series	F-Series

Warnings: Dental implant surgery and the restoration of implants involve complex dental procedures that are not without risk. It is the obligation of the clinician to inform the patient about the nature and risk(s) of the procedure(s).

Achievement of a satisfactory outcome requires appropriate training prior to implant system use. Improper technique and/or inadequate training can lead to

implant/abutment failure and/or loss of supportive bone. Dental implants and prosthetics systems may only be used by dentists or physicians who have had appropriate education and training. Proper clinical and radiographic evaluation of the patient should be performed prior to any implant placement.

Implants or abutments can break in function for any number of reasons. It is important that the clinician use an adequate number of implants in order to provide support to, and distribute the load between, the abutments. Implants should not be placed if there is not sufficient alveolar bone width and height to surround and sustain the implant. Abutments are provided in a non-sterile state and are intended for single use only. Under no circumstances should re-use be attempted.

For Laboratory Technician:

- Do not inhale dust and vapours when machining
- Ensure suitable air extraction/ventilation at the workplace and corresponding Machinery.

-Mechanical treatment of the connection part of the Abutments will damage the correct fitting of the prosthetic component to the matching implant.

Processing: According to anatomical individual features the Abutment can be modified. For processing of the components suitable tools in perfect condition, applying low working pressure, have to be used. A minimum wall thickness of 0.4mm has to be maintained. Burrs and sharp edges have to be avoided.

Preparing of prosthetic components for cementing:

The cemented surfaces have to be blasted with AL_2O_3 Grind 110 UM max, pressure 2.5 bar. Subsequently the treated surfaces have to be thoroughly cleaned (dust and fat free). For protecting the interface, we do recommend to fix the prosthetic components in an Implant Lab Analog.

Cementing:

For cementing the prosthetic component it is recommended to use Panavia® F2.0(Kuraray) with Relay XUnicem® (3M Espe) or other equivalent cements. The instructions for use of the cements shall be followed carefully.

The Prosthetic Component shall be fixed onto an implant analog with the abutment screw. The head of the screw has to be covered with wax or resin. The mixed cement is applied onto the contact part of the abutment. The Prosthetic restoration is pressed onto the abutment until a resistance is felt. The final position is evaluated by slight rotation. The gap between the prosthetic component and the abutment must be as small as possible. Remaining cement shall be removed immediately.

Polishing:

After hardening the remaining cement shall be removed with rotating silicon instruments. The cement inside the screw channel has to be removed carefully.

Warning: Metal dust is harmful to your health. When Milling and sandblasting use a suction extraction system and a breathing mask.

Allergies to alloy or contents of the alloy or electrochemically base reactions may very rarely occur.

Warranty: 10 years on the mechanical stability of the Prosthetic Component, if it was processed according to the Instructions for use. Whether given verbally, in writing or by practical instructions, our recommendation for use is based upon own experience and trials and can only be considered as standard values. Our products are subject to a constant further development. Therefore alterations in construction and composition are reserved.

Cleaning, Disinfection and Sterilization: The prosthetic components of the abutment series E, F, H, L, N, R, and S are supplied in non-sterile condition.

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