

Instructions for Use

Multi-Unit Abutment with Screw

Description: Multi-Unit Abutment with screws for series CC-Series, CE-Series, CV-Series, CF-Series, CH-Series, CK-Series, CL-Series, CN-Series, CR-Series, CS-Series and CY-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 Multi-unit Abutments of the CC-Series are indicated for Altatec® / Camlog® Screw-Line - Root-Line 2. The current implant diameters have to be attended.

The Multi-unit Abutments of the CE-Series are indicated for Nobel Biocare® / NobelReplace® Tapered. The current implant diameters have to be attended.

Multi-unit Abutments of the CV-Series are indicated for Dentsply® Implants / ASTRA TECH OsseoSpeed® EV. The current implant diameters have to be attended.

The Multi-unit Abutments of the CF-Series are indicated for Nobel Biocare® / NobelActive® - NobelReplace® Conical. The current implant diameters have to be attended.

The Multi-unit Abutments of the CH-Series are indicated for BIOMET 3i® / Certain®. The current implant diameters have to be attended.

The Multi-unit Abutments of the CK-Series are indicated for Nobel Biocare® / Brånemark®. The current implant diameters have to be attended.

The Multi-unit Abutments of the CL-Series are indicated for Straumann® / Bone Level®. The current implant diameters have to be attended.

The Multi-unit Abutments of the CN-Series are indicated for Straumann® / Tissue Level®. The current implant diameters have to be attended.

The Multi-unit Abutments of the CR-Series are indicated for Zimmer Dental® / Tapered Screw-Vent® MIS® / SEVEN® Internal Hex BioHorizons® / Tapered Internal - Tapered Internal Plus - Tapered Tissue Level. The current implant diameters have to be attended.

The Multi-unit Abutments of the CS-Series are indicated for DENTSPLY Implants® / ASTRA TECH OsseoSpeed® TX. The current implant diameters have to be attended.

The Multi-unit Abutments of the CY-Series are indicated for DENTSPLY Implants® / ANKYLOS®. The current implant diameters have to be attended.

Materials:

Multi-unit Abutments, Multi-unit Cover cap, Multi-unit Titanium Cap, Multi-unit Titanium Cap, Multi-unit Implant Pick Up, Multi-unit Lab Analog: Ti6Al4V, medical grade 5, ASTM F 136

Multi-unit Gold Cap Castable: Gold (Au) 60.0%; Platin (Pt) 19.0%; Palladium (Pd) 20.0%; Iridium (Ir) 1.0%

Multi-unit Scanbody: Ti6Al4V, medical grade 5, ASTM F 136, special coated

Multi-unit Screw Driver/Ratched: Stainless steel

Warnings:

- The following descriptions are not sufficient for the immediate use of the Multi-unit Abutments.
- Dental skills and prior instruction of how to use the Multi-unit Abutments are required.

Contraindications:

- Allergies or hypersensitivity to the chemical elements of the materials used.
- Every type of reworking of the connection geometry to the implant leads to inaccurate fits which rule out re-use. In addition the facing connection points to the prosthetic components may not be ground or changed as they are imperative to guarantee a sufficient amount of stability and a good fit.
- No Multi-unit-Abutments that are inappropriate in terms of the connection geometry may be used.
- All Multi-unit-Abutments are intended to be used once. No torques other than those recommended by the manufacturer may be used.

Torque:

Multi-unit Abutment Series	straight [Ncm]	angled [Ncm]
CC 3.3mm	20	20
CC 3.8mm, 4.3mm, 5.0mm, 6.0mm	30	20
CE	35	35
CV	25	25
CF 3.0mm	15	15
CF NP/RP	35	35
CH	20	20
CK	35	35
CL	35	35
CN	35	35
CR	30	30
CS	25	25
CY	25	25

Application:

The Multi-unit-Abutments are directly screwed into the implant and have a universal mounting on the face side for various additional prosthetic parts. The bridge or bar elements are produced using prosthetic components or digital (scanners) and screwed onto the Multi-unit Abutments.

Bonding of Multi-unit titanium adhesive base (passive-fit):

Sandblast the outer surfaces of the glue panels (grain 50 µm, 2 bar), Sandblast the inner surfaces of the construction (grain 50 µm, 2 bar). Clean and dry the glue panels and the construction. Screw the Multi-unit Abutment onto the plaster model with the aid of the M 11-6 insertion tool and subsequently coat it with Vaseline to prevent cement from subsequently sticking to it. Screw the glue panels onto the Multi-unit® Abutment and block out the screw head with soft wax. Coat the screw channel of the construction with Vaseline.

Notice: No Vaseline may be on the bonding surfaces.

- Line the screw channel with cotton batting to protect it from the cement. Condition the bonding surfaces in accordance with the manufacturer's instructions.
- Mix the cement, apply it to the construction and the glue panels and carefully place the construction on the glue panels (suggestion: Wipe the excess cement away with a fine paint brush).
- Once the cement has hardened remove the cotton batting from the screw channel and carefully remove the wax from the screw head with a probe. Detach all the screws with the screwdriver provided and take the finished product from the model (the screw channel must be free of residual cement!).
- Once the frame has been detached remove the excess cement with a silicone polisher and finish.

Notice: Please observe the user instructions of the cement manufacturer.

Recommendation for cement: Multilink ® Implant, Ivoclar Vivadent.

Safety notice:

Metal dust is harmful to health. When machining and sandblasting use a suction with a fine dust filter and wear protective goggles as well as a face mask.

Side effects

Allergies or sensitivity in connection with the alloy cannot be ruled out in very rare instances.

Interactions:

Various alloy types in the same mouth cavity can lead to galvanic reactions in the event of occlusal or proximal contact.

Notice:

The information conveyed orally, in writing or in practical seminars is based on tests and experience and can therefore only be considered to be standard values. Our products are subject to constant further development. In this connection we reserve the right to make product changes in relation to the design and composition.

Cleaning and sterilization:

The Multi-unit Abutments will be delivered in non-sterile state. The Multi-unit prosthetic components are delivered in a non-sterile state in the appropriate packaging. These non-sterile products have to be cleaned and sterilized according to following details:

Cleaning:

Automatic cleaning procedure based on Vario TD program:

- Cold water rinse 1 min
- Cleaning at 55°C/131°F ($\pm 2^\circ\text{C}/3.6^\circ\text{F}$) for 5 min with cleaning agent neodisher® MediClean (0.5% v/v)
- Neutralization with cold water for 2 min
- Cold water rinse 1 min

Sterilization:

- Seal in a suitable autoclave foil.
- Steam sterilization with 3x fractionated pre-vacuum:
- 132°C (270°F) for 4 minutes, drying time: 20 minutes

Magnetic resonance environment

Multi-unit abutments have not been evaluated for safety and compatibility nor have they been tested for heating and migration in the magnetic resonance environment.

Warning:

The product has to be inspected prior to usage. The packaging must be sealed without any visible damage.

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