


**Instruction for Use for CAD/CAM abutments
"HighLine" OT-F³/OT-F³**
Indications:

As an Hybrid-Abutment for cemented crown and bridge restorations of full ceramic, for the manufacturing of screw retained Hybrid-Abutment-Crowns and for preparation of primary parts in the telescopic and conical crown technique

Contraindications:

Primary connections of abutments, prosthetic angulation to the implant axis of more than 25°, abutment designs higher than 11 mm measured from implant level, cast-on technique, double crowns on implant diameter 3.40 mm, single tooth restorations with free-end cantilever

Processing:

- The dental laboratory is responsible for the basic processing steps of a preparation with the HighLine abutment with regard to the CAD/CAM-, copy milling- or press over procedures used.
- The HighLine base is available in heights of 3 mm included a wax up-funnel and of 5.5mm without funnel
- For preparation and further processing of the ceramic abutment the instruction of the manufacturers of the system and the material used should be observed.
- Please use only approved and certified manufacturing system and the pertaining materials (zirconia zR02 respectively lithium disilicate LS2).
- The connection to the implant is secured by a highly precise titanium base. The abutment screw transmits the tear strength for final fixation to the titanium base and not onto the zirconium part of the individualized abutment. The abutment is made for adhesion of the individual ceramic part on the prefabricated titanium base.
- The design of the base allows only a very precise positioning by adhesion, so that transmission failures are avoided.

The furnace of the abutment can be used as wax-up base according to the preparation process (only with 3mm base height). The abutment is shortened according to the prosthetic situation. The abutment shape can be waxed onto the acrylic furnace. When preparing bridge or double crown constructions, a mutual insertion direction should be determined prior to shaping. The wax-up made on the acrylic furnace individually is transmitted to the zirconium or lithium disilicate according to the process. The minimum wall thickness of 0.5 mm should remain at the final processing of the zirconium part. In case of LS2 for crowns in the posterior area the value is about 1.5mm.

Please observe the instructions of the ceramic manufacturer. The thickness of the adhesive gap for this phase should be taken from the adhesive manufacturer instructions.

Furthermore the 3D-files of the HighLine bases are implemented into the software of the well-known providers and are available in the download of the homepage www.ot-medical.de. Therefore it's possible to design hybrid abutments and hybrid abutment crowns virtually. Those generated data will be forwarded to a milling machine

and transferred into ceramic via CAM. A transfer of the virtual wax up by an press technique into lithium disilicate is possible as well.

Adhesion:

Basically the surfaces of both parts to receive the adhesive should first be blasted carefully with 50µm aluminum oxide (max. 2 pressure bar). Protect the FourByFour connection of the implants from damage by screwing onto an implant analog prior to blasting and adhesion. Please use the laboratory screw and close the screw entrance of the titanium base with wax prior to applying adhesive.

For adhesion, please observe the instructions of the adhesive manufacturer.

Suitable adhesives are amongst others:

- MultiLink Implant[®] respectively MultiLink Hybrid Abutment; Ivoclar Vivadent
- PanaviaTM F 2.0 bzw. PanaviaTM SA Cement; Kuraray
- RelyX[™] Unicem 2 Automix; 3M Espe

Please make sure to perform an additional light curing!

Material: Base Titanium grade 5, Furnace: Acrylic
Instruction for Use for CAD/CAM-Preforms OT-F³/OT-F³
Indications:

Preparation of individual titanium abutments for cemented crown and bridge restorations, lateral screw-connected crowns and bridges (for individually prepared screw connections) as well as for preparation of primary parts in the telescope or conical crown technique. A framework designed for direct porcelain veneering of screw retained crowns is realizable as well.

Contraindications:

Primary connections of abutments, prosthetic angulation to implant axis of more than 25°, cast-on technique, double crowns on implant diameter 3.40 mm, single tooth restorations with free-end cantilever.

The preform abutment should only be used by educated personnel.

With CAD/CAM preforms any anatomically and prosthetically required shape may be realized by CAD/CAM technology in order to obtain an individualized titanium abutment.

The virtual construction (CAD) of the abutment allows the individual design of the requested emergence profile, the profile of the circular shoulder as well as the desired dimension and angulation. The individual patient-related titanium abutment is manufactured computer added by a milling machine (CAM) from the massive CAD/CAM preform. Please avoid mal- or overload of the implant-abutment-connection, the abutments and the complete prosthetic construction.

- The components are supplied non sterile.
- The preforms are manufactured as massive semi-finished parts for processing in respective CAM milling machines.
- They need to be fixed with the given connection geometry in the corresponding blank holder for mechanical treatment. Please refer to the instructions of the respective manufacturer.
- The assignment to the corresponding system can be seen on

the label of the preform packaging.

- Do not put any mechanical load on the prefabricated, highly precise FourByFour[®]-connection during automatic and later manual processing.
- The connection surfaces of the abutments to the implant may not be blasted or treated. The hazard of an invasion of bacteria as well as weakening of the components must be avoided.
- Preform abutments have an internal screw thread which prevents a possible loss of the abutment screw during processing.
- The prefabricated screw fit and the internal screw thread must not be manipulated!
- Please observe the material specific minimum wall thickness of 0.3 mm for processing of the preform abutments.
- These abutments are supplied with a laboratory screw in titanium color as well as a color-coded final screw, both are added separately.
- Basically only new and non-used abutment screws (i.e. not used in the dental laboratory) should be used for final restoration in the mouth of the patient.
- The final, individualized abutments should be fixed with 35 Ncm in the patient's mouth. The abutment screws may not be cemented or glued within the implant.
- Color markings are provided for the abutments in the area of the FourByFour connection cording to the color guide system (green: ø 3.40; yellow: ø 3.80; red: ø 4.10; blue: ø 5.00).

Respective prosthetic driver: Prosthetic Driver 1.30 mm Hex

Titanium abutment „Preform“ (Material: titanium grade 5)

Instruction for Use for CAD/CAM-Scanbodies OT-F³/OT-F³
Indications

The scan body serves as an auxiliary tool for three-dimensional detection of implant position in the model or in the patient's mouth due to transfer this in a virtual 3D model by scanning the correct position. This is the requirement for the design (CAD) and subsequent manufacturing (CAM) of individually machined one-piece or hybrid abutments, and various bar constructions in the CAD/CAM process.

The scan bodies are available depending on the indication in two different versions:

- In the four sizes of implant diameter 3.4/3.8/4.1/5.0 with FourByFour[®] connection for mounting directly to the implant shoulder
- In a separate version for installation on the 4plus6Line abutments to scan at abutment level

Contra indications

The scan body must not be reworked for use as final abutment in the mouth of a patient.

Pictures and article numbers of the below mentioned prosthetic components are shown in the OT-F³ OT-F³ product catalog.

- The components are supplied non sterile.
- For intra-oral scan the abutments with the respective screw have to be sterilized prior to use (see enclosed instructions "Preparation (Cleaning, Disinfection and Sterilization) of instruments", item "impression coping open/closed")
- The scanbodies are made from titanium and matt-finished in

the scan area. No use of scan spray necessary.

- Avoid any prominent finger prints on the surface or remove them by cleaning prior to each scanning process.
- Avoid any damage of the surface as this leads to a loss of scan precision.
- The pre-fabricated, precise FourByFour[®]-connection of the abutment to the implant and the interface of the 4plus6Line abutments respectively must neither be blasted nor treated!
- The scanbodies „FourByFour[®]“ are supplied with mounted, color-coded screw
- The scanbody abutments have an internal screw thread which prevents a possible loss of the abutment screw during processing.
- The scanbody "4plus6Line" is supplied with a mounted screw in titanium color.
- The scanbody abutments are to be fixed hand-tight on the analogs.
- The FourByFour connection is color-coded as per usual color coding system (green: ø 3.40; yellow: ø 3.80; red: ø4.10; blue: ø5.00)

Note: The scanbodies are manufactured with highest precision for multiple use. Therefore please handle with care and store in a protected way. Also non-obviously recognizable damage or abrasion lead to false scan results. A timely renewal is highly recommended.

Respective prosthetic driver: Prosthetic Driver 1.30 mm Hex

Titanium abutment „Scanbody“ (material: titanium grade 5)

More information can be found in the download area of www.ot-medical.de

Erklärung der Symbole / Explanation of the symbols


Verwendbar bis
Use by



Trocken aufbewahren
Keep dry



Achtung
Caution



Nicht steril
None sterile



Gebrauchsanleitung beachten
Consult instruction for use



Hersteller
Manufacturer



Nicht bei beschädigter Verpackung verwenden
Do not use if the packaging is damaged