

Symbols Glossary

debris from the inside of the denture retention attachment inserts. Each night, remove the overdenture and immerse in a cup of plain water.

Regular Dentist Visits: The inserts are made of a soft plastic material to allow the overdentures to be removed/replaced regularly. Plastic materials are subject to wear as part of normal use and may require replacement. Bruxism wears the denture retention attachments and may reduce the longevity of the inserts. Patients should be instructed to maintain routine follow-up visits for hygiene and attachment function evaluation. Abutments must be re-tightened at follow-up visits to the torque specifications outlined above. Failure to re-tighten abutments could lead to screw loosening and abutment fracture. Follow-up visits are recommended at six-month intervals.

Inserting and Removing the Overdentures: The patient should be instructed on how to properly insert the overdenture. The patient should make sure that they can feel that it is positioned over the abutments prior to applying pressure. The patient should use both hands and press down on each side and firmly snap the overdenture into place.

CAUTION: THE PATIENT MUST NOT BITE THE OVERDENTURE INTO PLACE, as this force will result in improper wear of the abutments, including the inserts in the overdenture. Remove the overdenture by placing the thumbs under the edges of the overdenture flanges and pulling each side upward or downward (as applicable) simultaneously. Use of the tongue may aid in removal. Once removed, a thorough cleaning is recommended.

Abutments and Instruments










All abutments and instruments are supplied NON-STERILE.

Step 1 - Insert components into an FDA cleared sterilization wrap.

Step 2 - Autoclave sterilize (gravity) using 121° C (250°F) for 30 minutes.

Step 3 - Dry time is 30 minutes

The validated procedures require the use of FDA-cleared sterilizers, sterilization trays, sterilization wraps, biological indicators, chemical indicators, and other sterilization accessories labeled for the sterilization cycle recommended. The health care facility should monitor the sterilizer for the facility according to an FDA recognized sterility assurance standard such as ANSI/AAMI ST79:2010.

	Manufacturer
	Prescription Only
	Lot Number
	Non-Sterile
	Room Temperature Fahrenheit
	Read the Instruction for Use
	Single Use
	Expiry Date
 MR Conditional	Magnetic Resonance Conditional (Poses no known hazards in specific MRI environments and conditions)

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Instructions for Use Denture Retention Attachment

Caution: US federal law restricts this product for sale by or on order of a dentist.

Abutments are shipped **non-sterile** and must be sterilized before use. See sterilization instructions below.

Denture Retention Attachments are not intended to be modified by the user.

Storage and Handling

Store the devices in a dry, clean and dust free environment in the original packaging at modest temperatures (5°C to 40°C / 41°F to 104°F).

MR Safety Information



MR Conditional

Warning: The RF safety of the device has not been tested. The patient may only be imaged by landmarking at least 30 cm from the implant, or ensuring the implant is located outside of the RF coil.

A patient with this device can be scanned safely in an MR system under the following conditions:

Implant Attachments	Implant Attachments Ti-6Al-4V ELI Abutments
Static Magnetic Field Strength (B ₀)	≤ 3.0T
Maximum Spatial Field Gradient	30 T/m (3,000 gauss/cm)
RF Excitation	Circularly Polarized (CP)
RF Transmit Coil Type	For body transmit coil, landmarking at least 30 cm from the implant, or ensuring the implant is located outside of the coil. Extremity T/R coils permitted. Excludes Head T/R coil.

Device Description

Denture Retention Attachments provide a rigid connection of fixed, partial and full arch restorations (fixed/detachable hybrid dentures) to endosseous dental implants. They consist of abutments, attachment housings, and inserts. The abutments are provided in various OEM implant and abutment connections. The abutments are made from Ti-6AL-4V ELI which meets ASTM F136. All varieties of denture retention attachments come in collar heights of 1, 2, 3, 4, 5 and 6mm.

Contraindications

- Hypersensitivity to components of the abutment.

Warnings

- Abutments are non-sterile for single use only and should be sterilized according to the instructions found below; they should not be re-sterilized.
- Do not use the abutment if it appears damaged.
- Building the crown on top of the implant immediately after implantation may disturb the osseointegration process and cause dental implant failure.

Precautions

- During the planning phase it is important to determine the availability of adequate bone mass for implant placement and to confirm that the available occlusal space is sufficient to accommodate the proposed abutment and final restoration. Minimizing the trauma to the host tissue increases the potential for successful osseointegration.
- CAUTION: Electro-surgery should not be attempted around metal implants, as they are conductive.
- Carefully measure the needed occlusal clearance and mark the temporary abutment accordingly.

PROSTHETIC PROCEDURES: Based on the results of the patient's pre-surgical assessment, the clinician should select and order the appropriate denture retention attachment based on the type of implant and the diameter being used. All bone and soft tissue must be removed from the superior aspect of the implant body to guarantee complete seating of the abutment. Using a calibrated torque wrench, tighten the denture retention attachment to 30 Ncm or to the torque for an abutment screw recommended by the manufacturer of the implant/abutment system if that recommended torque is 35 Ncm or less.

Limitations of divergence from vertical placement of the implants

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All denture retention attachments are intended for straight use with no implant divergence from vertical. This includes Neodent, Hiossen, SIN, Biohorizons, Zimmer, Implant Direct, MIS, Surgikor, Nobel Active, NobelParallel, and NobelReplace models.

Warning: Using higher than recommended torque values could fracture the click attachment.

Impression and Stone Model Fabrication: Indirect Technique: With the denture retention attachments torqued into place, snap the impression copings on the abutments until they are seated firmly. Proceed by taking an impression. Remove the tray and snap an analog into each of the impression copings. Capture the abutment position in stone using standard methods for fabricating a laboratory stone model.

Prosthesis Fabrication: Seat the denture retention attachment housing and the processing inserts on each of the attachments. Secure the denture retention attachment housing to the prosthesis using auto-polymerizing or light cure acrylic or composite resin pickup technique.

NOTE: Excessive occlusal pressure during the setting time may cause tissue recoil against the denture base and could contribute to dislodging and premature wear of the replacement males.

Prosthesis Delivery: Once the fit of the prosthesis is verified, remove the processing inserts from each denture retention attachment housing. Replace them with the lowest retention level inserts initially and increase the retention if needed. Firmly snap the prosthesis into place, ensuring that each insert is fully engaged onto each abutment.

HEALING PHASE: For delayed loading protocols: Relieve the denture to ensure the abutments are not in contact with any denture acrylic. A soft liner may be added to the denture to ensure patient comfort during the healing phase.

Cleaning: Good oral hygiene is vital to attachment success. The patient should be made aware of the following: the denture retention attachments must be thoroughly cleaned each day to prevent plaque build-up and the patient should use a soft nylon bristle or end-tufted toothbrush with a non-abrasive toothpaste to clean the abutments. The coarse particles in abrasive toothpaste may scratch the surfaces of the abutments and cause plaque accumulation. An irrigation system is recommended to flush out

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Operating Mode	Normal Operating Mode in the allowed imaging zone
Maximum Whole-Body SAR	2W/kg (Normal Operating Mode)
Maximum Head SAR	Not evaluated for head landmark
Scan Duration	No specific constraints due to implant heating

Indications for Use

Denture Retention Attachments are designed to support fixed, partial or full arch restorations on endosseous dental implants in the mandible or maxilla for the purpose of restoring masticatory function. They are used in fixed hybrid restorations that can be attached with a click in system. Denture retention attachments are indicated for use with vertical implant placements.

They are indicated for the following implant systems:

Biohorizons Tapered Tissue Level Implants in diameters 3.8, 4.2, 4.6 and 5.2mm

Nobel Biocare NobelActive 3.5, 4.3, 5.0 mm diameter implants, NobelParallel CC 3.75, 4.3, 5.0mm diameter implants, and NobelReplace Conical Connection 3.5, 4.3, and 5.0 diameter implants.

Implant Direct Legacy 3 for 3.7, 4.2, 4.7, 5.2mm diameter implants

Surgikor Versatile for 3.5, 3.75, 4.2, 4.5, 5.0, 6.0mm diameter implants

Surgikor Fixation for 3.5, 3.9, 4.3, 5.0mm diameter implants

Surgikor Solution for 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm diameter implants

Neodent Grand Morse for 3.5, 3.75, 4.0, 4.3 and 5.0 mm diameter implants

MIS Seven for implant diameters 3.75, 4.2, 5, and 6mm

Zimmer for Tapered Screw-Vent in 3.7, 4.1 and 4.7mm implant diameter

Hiossen ETIII for 3.5, 4.0, 4.5, 5.0, 5.5, 6.00, and 7.00 mm implant diameters

SIN Cone Morse 11.5° and 16° implant lines
11.5° Strong SW/SW Plus implant diameters 3.5, 3.8, 4.5, 5.0mm Unitite implant diameters 3.5, 4.0, 4.3, 5.0, 6.0 Tryon CM Conical implant diameters 3.5, 4.5, 5.0 Tryon CM Cylindrical implant diameters 3.5, 3.75, 4.0, 5.0 Epikut CM/CM Plus implant diameters 3.5, 3.8, 4.0, 4.5, 5.0

16° Strong SW CM/CM Plus implant diameters 3.5, 3.8, 4.5 and 5.0mm Epikut S/S Plus implant diameters 3.5, 3.8, 4.0, 4.5, 5.0mm

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