
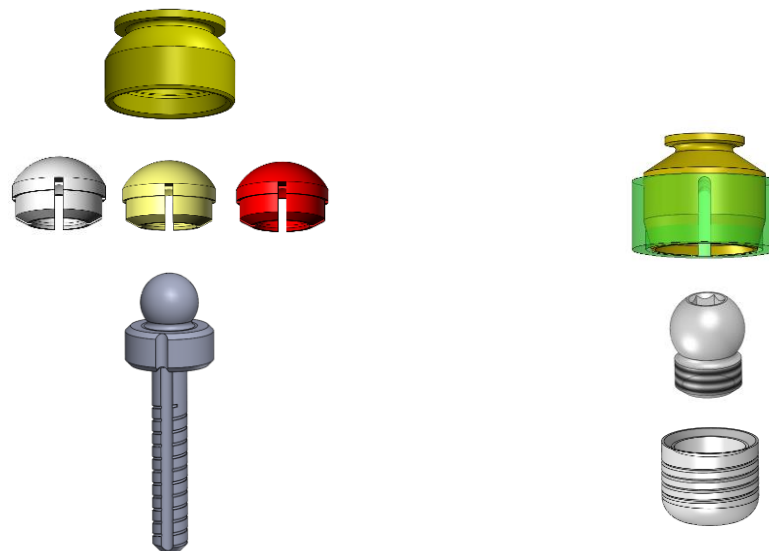


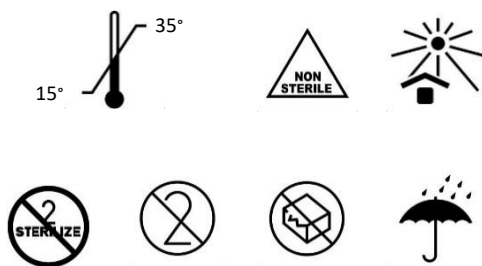
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| Version: 02 | Instruction for Use | |

Hader Clix



English

Instructions for Use



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1 System Description

Hader Clix is a clip-on attachment system. This system is for use with a partial or complete removable prosthesis which can be either mandibular or maxillary. The assembly of the elements with the prosthesis must be carried out by a professional who has received adequate training. The patient must be trained by the person who will install the prosthesis on the use of the clip system as well as the recommendations for keeping the elements in good condition.

The female parts of the system come assembled with the prosthesis. The male parts are sealed in the tooth, which must first be prepared by endodontic treatment in order to receive these elements.

All components are delivered NON-STERILE. They must therefore be sterilized before being used in the mouth.

1.1 Intended Use

Hader Clix is intended to be used with overdentures and removable partial dentures in the mandible or maxilla in order to restore masticatory function.

1.2 Intended user

The assembly of the components with the prosthesis must be performed by a properly trained professional.

The prosthesis and male components must be installed by a professional trained in the field of prosthetics. This person is responsible for instructing the patient on the proper use of the medical device.

1.3 Indications for use and patient population

- To be used with natural tooth / tooth root abutments or via welding to dental implant-retained metal structures allowing retention of the prosthesis by means of an axial ball and a clip
- For fully or partially edentulous jaws
- To retain overdentures and removable partial dentures to be removed and replaced by the patient
- When nonparallel abutments present (allows for misangulation up to 30° between implants)
- When resilient attachment is required to reduce stress transfer to the abutment

1.4 Contra-indications


It is recommended that these elements not be used with attachment systems other than HADER components. Other items may not be compatible.

When descaling, do not use metal instruments. This could create scratches on the surface of the pivots and balls. You should avoid drinking sodas or smoking. Carbonated drinks or smoking may affect the proper functioning of the clip system.

These elements must not be mounted in milk teeth.

In the event of a violent impact, the prosthesis must be checked by a professional (eg during a sports accident, domestic accident). As with all attachment systems the following general contraindications also apply;


- Sick and the senile patients (prosthesis with attachments must be inserted along one precise path of insertion, thus the patient must possess an average degree of manual skill to be able to attach/ remove the prosthesis),
- Patients with severe periodontitis
- Patients with abnormally high caries rate

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- Patients where there is inadequate space to employ them (teeth that are very narrow facio-lingually).
- Patients with poor neuromuscular coordination and in neuromuscular disorders

1.5 Warnings/ Precautions

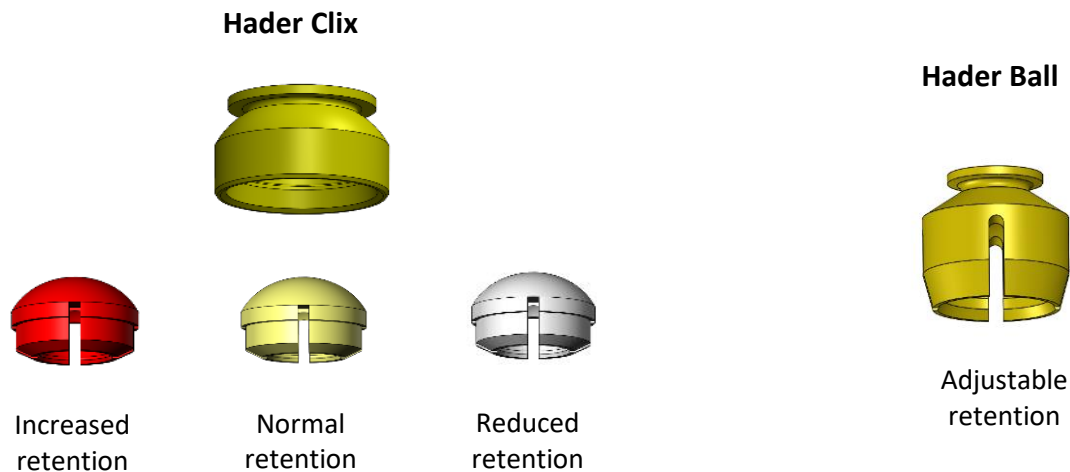
- In case of poor oral hygiene, irrespectively of the kind of attachment the clinician chooses, the gums will be inflamed and swollen, which sometimes makes it impossible for the overdenture to be retained.
- Common systemic disturbances can have a significant effect on the treatment of the patient, as well as the overall success of the treatment and include the following:
 - Diabetes – uncontrolled diabetes is characterized by xerostomia, macroglossia and rapid periodontal breakdown; patients bruise easily and heal slowly.
 - Arthritis – if arthritic changes occur in the temporomandibular joint, recording jaw relation can be difficult and changes in the occlusion may occur.
 - Anemia – anemic patients have a pale mucosa, sore tongue, xerostomia and gingival bleeding.
 - Epilepsy – any seizure may result in fracture and aspiration of the prosthesis, and possibly the loss of additional teeth. Consultation with the patient’s physician is essential before treatment is initiated. The construction of removable partial dentures is usually contraindicated if the patient has frequent, severe seizure with little or no warning.
 - Cardiovascular disease - patients with the following symptoms require medical approval before any dental procedures:
 - Acute or recent myocardial infarction
 - Unstable or recent onset of angina pectoris
 - Congestive heart failure
 - Uncontrolled arrhythmia
 - Uncontrolled hypertension
 - Cancer – oral complications are also common side effects of radiation and chemotherapy for malignancies in areas other than the head and neck (oral malignancy). The most common oral complications are mucosal irritations, xerostomia, and bacterial and fungal infections.
- Some of the frequently prescribed drugs that can affect prosthodontic treatment including:
 - Anticoagulants – postsurgical bleeding could be a problem for patients receiving anticoagulants who undergo extractions or soft tissue or osseous surgery.
 - Antihypertensive agents – treatment for hypertension usually includes prescription of a diuretic agent, which can contribute to a decrease in saliva and an associated dry mouth.
 - Endocrine therapy - patients receiving endocrine therapy may develop an extremely sore mouth. If the patient is wearing prosthesis, it could incorrectly be blamed for causing the discomfort.
- Poor bone quality – systemic factors like diabetes and osteoporosis increase the rate of resorption of the bone; the efficacy and success of the procedure and system could be compromised.
- Secondary factors like smoking, pan chewing, chronic alcoholism may modify the systemic status and evoke concerns regarding the hygiene, maintenance and wear of the denture.

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2 Components:

All the components described below can be found as a kit or sold separately. All male elements are compatible with female components.

2.1 Female Components



Retention is adjusted to improve user comfort


Use of Hader Clix

When placing the prosthesis, it is recommended to use normal retention.

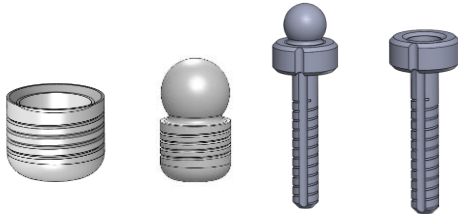
The retention can then be adjusted to improve user comfort. Red for a better hold, white to facilitate the maintenance of the prosthesis (less force required to remove and replace the prosthesis).

Use of Hader Ball

When placing the prosthesis in the patient's mouth, the retention force is adjusted using the Hader Ball adjustment tools described in chapter 2.3.1. The activation tool (HLT.1220-1) increases the retention force and the deactivation tool (HLT.1221-1) decreases it.

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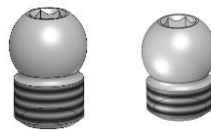
2.2 Male Components



Elements to be sealed in the tooth after endodontic treatment of the root.



Elements for the manufacture of the metal structure



Threaded ball.

These components are screwed into the male elements above

2.3 Tools

The tools listed below are the only tools approved for setting up Hader Clix or Hader Ball systems.

2.3.1 Instruments for use in the patients' mouth

Before use, the tools must follow the reprocessing cycle according to the recommendations of the IFU validated by the tool manufacturer.

Drilling of the tooth

- Pre-Drilling Bur HLT.1227
- Cavity Bur HLT.1228
- Precision Reamer HLT.1229



Screwdriver:

- Insertion screwdriver for the threaded male part HLT.IMP-XS-042
- Implant Buddy Kit for optimal tightening HLT.18415E

Tool for fitting Hader Clix

- Insertion tool HLT.1222

Hader Ball Adjustment Tool


- Activation tool HLT.1220
- De-activation tool HLT.1221



Insertion tool



Implant Buddy

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2.3.2 Instruments for use in the laboratory

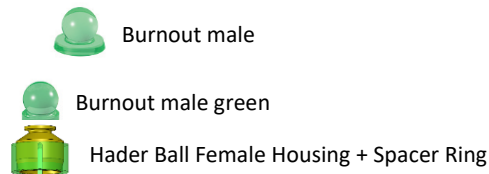
Adjustment tools:

- Male Parallel Mandrel HLT.EMB1201P
- Female Parallel Mandrel HLT.EMB1211P
- Parallel Mandrel for Base Ring HLT.EMBREH4



Burnout components:

- Burnout male HLT.1205C
- Burnout male green HLT.1281C
- Plastic male HLT.1281C/BE
- Spacer ring HLT.1201A



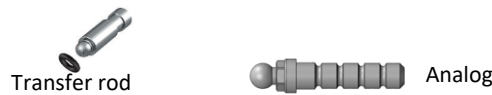
Height adjustment:

- Tin Spacer HLT.EMBRA0055
- O-Ring HLT.1251B



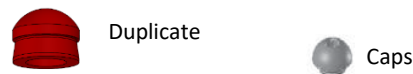
Analog:

- Transfer rod HLT.1201D
- Analog HLT.19377P



Others:

- Duplicate HLT.1236
- Threaded cap HLT.EMBREH17




3 Packaging / Storage

The parts come in a vacuum sealed plastic bag. If the pouch is no longer sealed or under vacuum upon receipt of the parts, they must be returned to the distributor.

The parts should be kept in a clean, dry place and protected from direct sunlight. The temperature of the storage conditions must remain at room temperature.

The device should not be used more than 5 years after the manufacturing date. The limit is visible on the label. With the following symbol:



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4 Treatment before insertion

Before the Hader Clix system is placed in the patient's mouth, the components must be disinfected and sterilized. For cleaning the device, the recommendations of the denture manufacturer must be followed. However, the parameters and dosage defined below must be observed.

It is forbidden to re-sterilize the device. Re-sterilization as well as any other disinfection or sterilization methods of the device may lead to increased ageing of the plastics and may therefore cause a change in the retention force.

No automatic cleaning is permitted for cleaning this device. The use of such a system would influence the performance of the device.

4.1 Disinfection

Soak the elements for 5 minutes in an ultrasonic bath containing a disinfectant product (Helvemed Disinfection Instrument Forte +) diluted to 1.5% in water at room temperature. Rinse the elements with distilled water.

Visually check that all parts are free of residue.

4.2 Sterilization


The medical device must undergo steam sterilization.

Recommended cycle: 3 pre-vacuums, 18 minutes at 134 ° C / 273 ° F at 2 bars and drying for 20 minutes.

We recommend the use of devices equipped with vacuum pumps (type B) to reduce the risk of air pockets forming.

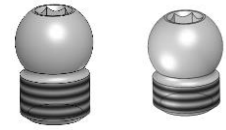
5 Daily treatment

Patient should respect daily cleaning process recommended by the prosthesis manufacturer. This includes: Remove by hand for the night, brush to remove dirt, soak it in water overnight and clean with disinfection solution on a regular basis (Amukina MED (Dakin solution), maximum 10 minutes per month).

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6 Recommendations for use

- The screws should be tightened to a torque of 10Ncm so that they do not come loose. For this, use the OMEGA key from the Implant Buddy kit, set to the correct torque.



Hader Clix Threaded Male / Long

- The plastic clip-on parts are parts which will wear. It is necessary to change them regularly (max every 5 years) in order to maintain sufficient retention force. This is in order to prevent the prosthesis from unclipping during chewing. For optimal comfort, it is advisable not to remove the prosthesis more than once a day.
- When changing a clipped element, all of the elements, as well as the maintenance of the sealed parts, must be checked.
- The parts are for single user only. It is possible that damage will occur when removing their accommodation.
- After having disassembled plastic part from the housing the parts (clipped elements), the plastic part need to be replaced When using the medical device, the patient must maintain adequate dental hygiene.
- When using the medical device, the patient must maintain adequate dental hygiene.
- As the CrCo parts are visible, it is recommended brushing them on a daily basis with a toothpaste, in order to avoid the oxidation of these parts.

7 Disposal

Disposal must be done in accordance with the regulations applied in the country of use.