Removable Prosthetics

MANUAL

DYNA HELIX/OCTALOCK®

LOCATOR ATTACHMENT

Your comfort is our goal!
**GENERAL**

Dyna Dental Engineering BV, Halsteren, the Netherlands has implemented and maintains a quality management system for the following field of activities: development, manufacturer and sale of dental and implantology products. Dyna Dental Engineering BV is ISO 13485 certified.

**Warning**
The descriptions given in this enclosure are insufficient to allow immediate use of all Dyna Systems. Guidance in the handling of the Dyna (Direct) System, Muchor® system, Dyna Helix® ART Octalock® Implant System and Dyna (Octalock®) Implant System by an experienced operator is strongly recommended. Dyna Helix® ART Octalock® and Dyna (Octalock®) Implant Systems must only be used by properly trained dentists/doctors and in combination with original components. In case of multiple use the following dangers could occur: cross infection, damaging products and as a result their function, wrong identification of products. For more detailed information please refer to the Dyna Manuals as well as Dyna Terms of Guarantee – available on request. With the publication of this instructions for use all previous are no longer valid.

**Content package**
See label on packaging.

**Indications**
Dyna attachments are intended for increasing retention of (partial) overdentures, supported on implants and natural roots in combination with cone, ball, bar and magnet abutments. Magnets are specially indicated for overdentures in patients with manual dexterity deficiency and/or severe reduced alveolar bone. Muchor® mucosal anchorage system is primarily indicated for realising retention and stabilisation of the upper denture. Muchor® anchors can be specially indicated for patients using normally a denture adhesive. As of its simplicity and efficiency there may be named also other indications (for the maxilla): - implant contra-indications, cleft palate, vestibule that cannot be operated, atrophic upper jaw, hyper gag reflex patients, epiphyses constructions, osteoporoses. For full list of indications please refer to the Dyna Muchor® manual.

**Precautions**
When damaged exchange attachments immediately. Do not grind or sandblast. Improper technique can contribute to implant/prosthesis failure and/or bone loss. Check the overdenture/attachments regularly (every 6 months).

**Handling and Storage**
Store in clean, dry, dust-free, dark room at room temperature. Store Magnet bond products cool, in well ventilated room and make sure bottles are closed.

** Traceability of serial/lot numbers**
It is the end users responsibility by law to record the serial and/or lot numbers of all products for traceability purposes.

**Training**
Dyna Dental Engineering BV arranges regular training courses for the beginning and advanced implantologists. The courses are obligatory and are meant to provide the Dyna user with practical and theoretical expertise concerning the use of Dyna Implant System, Dyna (Direct) System and Muchor® Mucosal anchorage system.

**Copyright and trademarks**
All Dyna documents may not be copied, reprinted or published in whole or in part without the written authorization of Dyna Dental Engineering BV. Dyna®, Muchor®, Dyna Octalock®, Instant Adjusting Bar® and Dyna Helix® are registered trademarks of Dyna Dental Engineering BV.
INTRODUCTION

The Dyna® Locator® abutment octa is based on the Locator® system manufactured by Zest® Inc, USA. The system exits out of a titanium Dyna® Extension abutment and a titanium Locator® abutment with TiN coating. As the connection to the implant is realized by the part manufactured by Dyna Dental Engineering BV itself you are ensured of a perfect fit and guaranteed by the Dyna guarantee policy. Because of the all-fit-all connection the Dyna® Locator® abutment Octa fits on all Dyna Helix® and Octalock® implants. For extensive information regarding the use of Locator® system we refer to the Zest Locator manual which you can download at www.dynadental.com or www.zestanchors.com.

The Dyna Locator abutment Octa will be delivered in one part meaning that the Extension abutment and the Locator abutment are fixed together with a torque of approx. 10 Ncm.

FEATURES:

* LOWEST Vertical Height
* Patented DUAL Retention
* Unique Pivoting Denture Cap
* Self-Aligning
* Choice of Retention
The Dyna® Locator® abutment octa is available in 5 different heights:

- 82LC1 Dyna Locator abutment octa H1.5
- 82LC3 Dyna Locator abutment octa H3
- 82LC4 Dyna Locator abutment octa H4
- 82LC5 Dyna Locator abutment octa H5
- 82LC6 Dyna Locator abutment octa H6

*The tissue cuff height is calculated as follows: 1mm free locator implant abutment part + 0.5, 2, 3, 4 or 5 mm extension part*

LOCATOR implant abutments should be ordered to the exact height of the gingival measurement (tissue depth) or round up to the next taller cuff height. Abutments will extend 1.5mm above the tissue to allow the denture cap to snap on.

The Dyna® Locator® abutment octa can be removed or thread into position by means of the Locator Square Driver 15mm (Zest Inc.) with article number 08926.

In case the Locator abutment loosens from the extension abutment you can thread with the Dyna Torq Wrench (art.no. 5084) with 30 Ncm (Extension 35 Ncm):

- the Dyna Extension abutment octa into the implant by means of the Dyna Single Slot Driver, art.no. 5081S
- the Locator abutment by means of the Locator Square Driver 15mm (Zest Inc.), art.no. 08926
a. Planning principles

Implant retained overdentures require thorough planning of the surgical and prosthetic procedures. The number and position of implants, the design of the denture, and both occlusal and functional aspects should always be taken in consideration. An important factor in choosing a proper solution in a particular case is hygiene. For more information on this subject please refer to the Dyna Implant Manual available on request and adequate scientific publications.

The Dyna Locator system can be realized by means of a laboratory technique as well as by means of a chair-side procedure.

b. Surgery

Planning of the Dyna Locator supported overdentures should be given special attention. It is important that the implants are inserted correctly. Proper inclination and distance between implants are essential to create optimal functional and aesthetic conditions.

CLINIC

To realize the best position of the implants a surgical stent (drilling guide) is favourable. If indicated make a full arch alginate impressions and send it to the laboratory or realize the guide by means of computerized dentistry (CT scan etc.).

Verify the surgical stent.
Follow the usual implantation protocol.

For (contra) indications check the Zest Locator manual.
a. Impression & realisation of the working cast

**CLINIC**

Make a full arch alginate impression of the healing abutments and edentulous areas. Send it to the lab for the fabrication of individual impression trays.

The individual impression for the realization of a denture with the Locator system can be done by means of open or closed tray technique. However for the Locator system a closed tray technique by means of the Locator impression parts is recommended.

**Closed tray Technique**

**CLINIC**

Remove healing abutments and tighten the Dyna Locator Octa abutments with the Zest driver (art.nr 08926) using the Dyna Torq Wrench (30Ncm).
Check the connection by means of X-ray photo
For further procedure see the Zest manual

**Open tray Technique**

**CLINIC**

Remove the healing abutments and tighten the Dyna impression copings octa with Octa (art. no. 81IC2 or the lower version art.no. 81IC1) with a torque wrench (30 Ncm) and the Dyna Hex driver (art.no. 5181S).
Check the connection with X-ray photo.
Verify intra-orally the custom tray. The screw should penetrate through the top of the tray without any hindrance.

Cover the access opening with softened first piece of baseplate wax. Carefully try in the tray and let the screws penetrate through the wax, creating small access holes. Take functional impression.
Individualize the border of the tray e.g. with greenstick compound material and using afterwards elastomeric material is recommended. Unthread the screws from the impression copings and remove the tray from the mouth gently.

Replace the healing abutments on the implants.

Choose the proper height of the Dyna Locator abutments by means of the height indicators on the healing abutments. Remember the vertical space and hygienic requirements.

Make an opposing arch impression.

LABORATORY

Attach the implant laboratory analogue (art. no. 81IA0). Pass the screw through the impression copings and thread it into the Dyna Impression coping Octa (art. no. 82IC2) with 30 Ncm. Do not change the position of the impression copings in the impression.

Make a soft tissue model.

Pour the working cast in plaster after the soft tissue material is set. After the plaster is set unthread the impression coping screw and gently remove the tray from the model.

Choose the proper height (1.6 to 6.0 mm) of the Dyna Locator abutment taking into consideration hygiene and occlusal aspects.

For further procedures concerning the Locator Caps see the Zest Locator manual.
b. Realisation of the denture

LABORATORY

Make bite plates.

CLINIC

Make a bite registration at the vertical dimension of occlusion. Select the teeth and send the materials to the lab for fabrication of the wax try-in.

LABORATORY

Mount the working cast and opposing model on an articulator. Produce wax try-in and send the denture to the dentist.

CLINIC

Verify the try-in denture and make necessary adjustments. Ask for patient's approval. Remove the denture from the mouth and return the denture to the lab.

c. Fixation of Dyna Locator Abutments in the Laboratory

See Zest Locator Manual for details
The Dyna Locator System exist out of two parts (male and female). The constructions can be cleaned by means of a toothbrush and a special denture brush in combination with a non abrasive toothpaste. The best result as well for cleaning the abutments intra-orally and the denture is obtained with Implaclean® Implant toothpaste.
How to open the Dyna packaging

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9.

How to use labels for tracability purposes