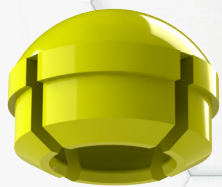
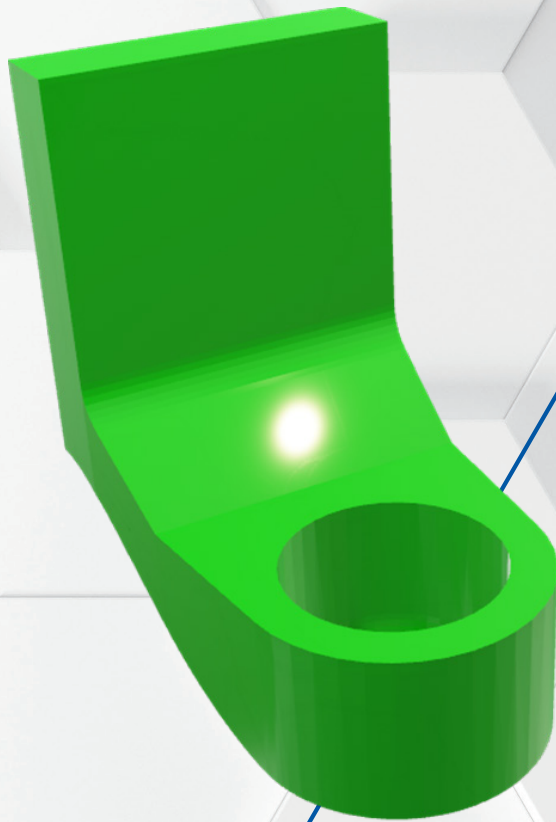




HADER
SOLUTIONS



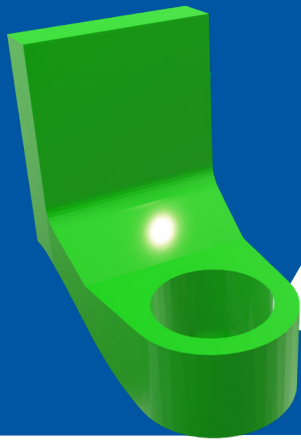
Hader CX

Extracoronaral

USER GUIDE

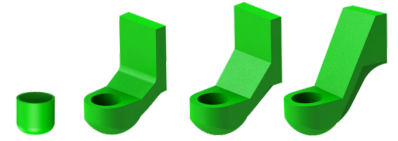


www.hader.eu



Hader CX Extracoroneral, a versatile and efficient solution for extracoroneral attachments with a periodontal-friendly design. Compatible with both traditional casting methods and modern CAD-CAM techniques, the Hader CX Extracoroneral offers multiple options for the male components, including bonding, casting, and threading. This provides a flexible and adaptable solution to meet your specific needs.

The set of plastic male keeper patterns (ref- 5011041-1) includes four angles: 0°, 30°, 45°, and 60°. These patterns are also available in our Digital Library for CAD-CAM.



Processing the male

1. Laboratory instructions

1. Determine the path of insertion of the prosthesis, and choose the appropriate male keeper angle.

For Casting



1 PCS 5011027-1
30 PCS 5011027-30

Cast in hard alloys.
Ball height: 2.05mm - Ø: 2.25mm

2. Press the Castable Male (ref- 5011027-1) into the cavity of the male keeper and use the Hader CX Male Paralleling Mandrel (ref- 5011034-1) to position the male into the wax-up. Ensure keeping the papilla free and maintaining a passive contact with the alveolar ridge.



4. Reinforce the wax-up in lingual, Invest, burn out and cast in a hard alloy.
6. Use the Hader CX Cup Bur (ref- 5011018-1) to finish the sphere. Polish.

For Bonding



5011025-1

Male in TITANAX
Ball height: 2.05mm - Ø: 2.25mm

2. Use the Hader RX M2 Paralleling Mandrel Profile (ref- 5051048-1) to position the male keeper into the wax-up. Keep the papilla free and in passive contact with the alveolar ridge.
3. Reinforce the wax-up in lingual.

4. Invest in two stages. First the cavity of the male keeper, then sprue the crowns and complete the investing.
5. Burn-out, cast in a hard alloy and sandblast ensuring not to damage the cavity for the male.

Bond the male

6. Apply Site B (ref- 1041020-1) in the cavity. Use the Hader CX male paralleling mandrel (ref- 5011034-1) to insert the Hader CX Titanax Male (ref- 5011025-1) and hold it in place for 5 to 10 minutes. Clean any excess

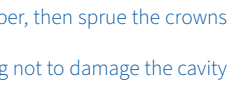
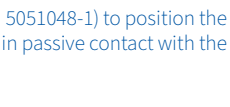


For Threading



Standard 2.8mm. 5011010-1
Long 3.1mm. 5011011-1

Base in TITANAX M2 threading. 5011042-1
H: 1.9mm - Ø: 2.3mm.



Bond the base and thread the male

6. Apply Site B (ref- 1041020-1) in the cavity. Use the Hader RX M2 Paralleling Mandrel (ref- 5051047-1) to insert the Base (ref- 5011042-1) and hold it in place for 5 to 10 minutes. Clean any excess.



7. Use the 0.9mm driver (ref- 5011040-1) to thread the Male Standard (ref- 5011010-1), or Long (ref- 5011011-1).

2. Chairside instructions

Cementation and Impression

1. Try-in the construction and ensure it fits. Take a pick-up impression and send back to the lab.
2. Once the attachment is back, cement according to the recommendations of the cement manufacturer. Clean any excess of bonding material.



ALSO AVAILABLE FOR



**CAD
CAM**

It's time to unlock the full potential of digital dentistry with the Hader Digital Library. Visit our website www.hader.eu, or **scan the QR code** to download the Digital Library today, and take your dental practice to new heights.



Processing the female

Hader CX is a great option for partial dentures and it gives the flexibility to add a metal housing into the frame (female in housing method) or to use the duplicating dummy for inclusion of the plastic insert directly into the frame (female in frame method)

Female in housing

1. Laboratory instructions

1. Prepare the work model for duplication by applying wax under the attachment to block undercuts. The wax must be applied parallel to the male keeper.

2. Produce a refractory model and surround the replica of the male keeper with a sleeve of wax up to the upper edge, that connects to the metal frame.



6. Place the Hader O'Ring space maintainer over the male (ref- 5011024).

7. Seat the metal frame in place and use the Hader CX Insertion Tool (ref- 5011014-1) to insert the plastic female into the metal housing (ref- 5011022) and click this assemble to the male.



3. Cast and finish the metal frame.

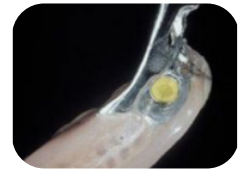
4. Send for try-in and new pick-up impression.

5. Include the Hader Round Model Analog (5011008) in the new work model.



8. Protect the inside of the housing with a small amount of Vaseline and process the acrylic resin according to the recommendations of the manufacturer. Finish and polish.

9. Remove and discard the space maintainer. Ensure the retention is appropriate. The plastic insert can be replaced if necessary.

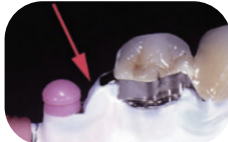


Female in frame

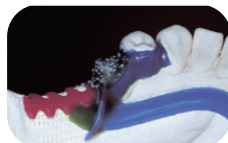
1. Laboratory instructions

1. Prepare the work model for duplication by applying wax under the attachment to block undercuts, parallel to the male keeper.

2. Apply a thin coat of wax to the angled arm of the male keeper and seat the Hader CX Duplicating Dummy (ref- 5011023) on the male. Do not use an O'Ring space maintainer.

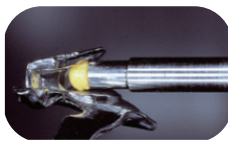


4. Surround the replica of the male keeper with a sleeve of wax and connect it to the wax structure of the frame.



6. Use the Hader CX Insertion Tool (ref- 5011014-1) to insert the plastic female into the cavity in the frame.

7. Place the Hader O'Ring space maintainer over the male (ref- 5011024) and Seat the metal frame in place.



3. Produce a refractory model. The duplicating dummy must be accurately reproduced.

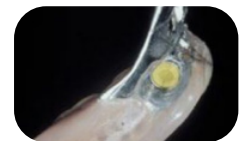


5. Cast and finish the metal frame. Sandblast carefully without altering the cavity for the female. Polish the access to the cavity to a high shine.

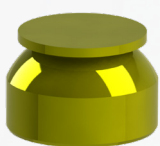


8. Process the acrylic resin according to the recommendations of the manufacturer. Finish and polish.

9. Remove and discard the space maintainer. Ensure the retention is appropriate. The plastic insert can be replaced if necessary.



Hader CX Metal Housing



6 PCS
30 PCS

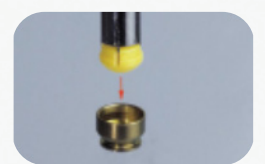
5011022-6
5011022-30

In TITANAX for inclusion into acrylic resin.
H: 2.65 mm - Ø 4.0 mm

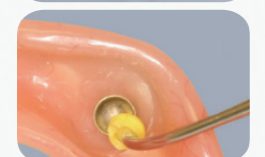
Choose between three levels of retention:
(ref- 5011019) – Yellow for standard retention
(ref- 5011020) – White for reduced retention
(ref- 5011021) – Red for increased retention



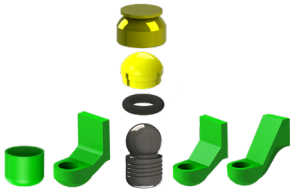
Use the Hader CX Insertion Tool (ref- 5011014-1) to insert the plastic element into the metal housing by placing it on a flat surface and pressing down firmly.



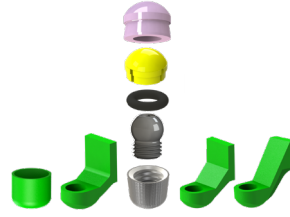
To replace a plastic insert, use a hot or sharp instrument to remove it from the housing and repeat the previous step to insert a new one.



Available Kits



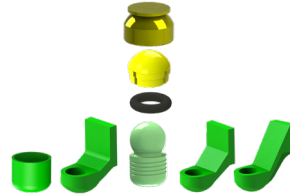
5012006
Hader CX 006
5012017
Hader CX 017 CAD-CAM
With housing in TITANAX



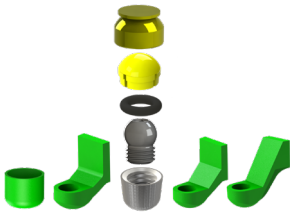
5012009
Hader CX 009
5012020
Hader CX 020 CAD-CAM
With duplicating dummy



5012007
Hader CX 007
5012018
Hader CX 018 CAD-CAM
With duplicating dummy



5012010
Hader CX 010
With castable male and housing in TITANAX



5012008
Hader CX 008
5012019
Hader CX 019 CAD-CAM
With housing in TITANAX



5012011
Hader CX 011
With castable male and duplicating dummy

General Recommendations

- Any element which is visibly altered or damaged (corrosion, breakage, cracks) must be immediately disposed.
- Products made from plastic through injection moulding may exhibit a slight change in coloration, but this does not affect their quality or characteristics.
- The plastic inserts might wear after prolonged use, and it will be necessary to replace them regularly (max every 5 years) to maintain sufficient retention force.
- When replacing a plastic insert, all the elements, as well as the maintenance of the sealed parts, must be checked.
- Drills must be carefully manipulated. Follow the cleaning and using instructions in this document.

Use them at slow speeds with appropriate irrigation. We recommend extending the preparation to 2/3 of the canal.

Before reprocessing, visually check the drills and ensure that there are no signs of breakage or damage, the integrity of the markings and colour codes is intact, the cutting surface is not damaged and there are no signs of corrosion. Dispose immediately otherwise.

Alloys and Materials

- IRAX: Au 60 - Pt 24 - Pd 15 - Ir 1 / Melting range: 1400-1460 °C
- NOPRAX: White - Cr 28 - Co (balance) - Mo 6 - others: Si, Mn / Melting range: 1355-1450 °C
- ORAX: Yellow - Au 67 - Ag 13.5 - Pt 8.5 - Cu 10.8 - Zn 0.2 / Melting range: 910-995 °C / Heat treatment: 60 min at 400 °C
- TITANAX: White - Ti 90 - Al 6 - V 4 / Melting range: 1663-1682 °C
- POLYACETAL: Plastic Inserts

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