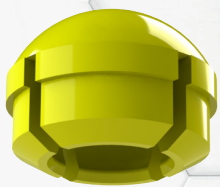
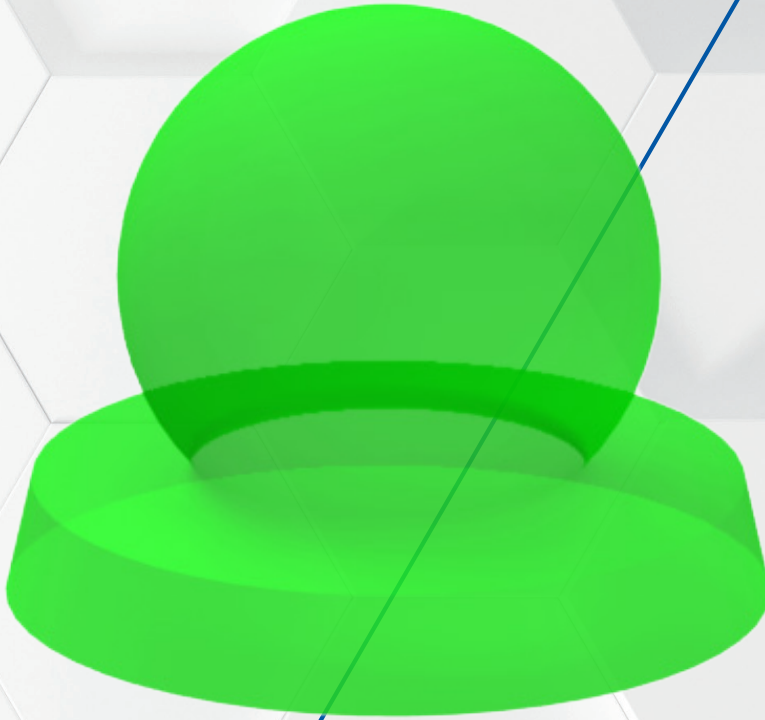




HADER
SOLUTIONS



Hader CX

Axial

USER GUIDE



www.hader.eu

Hader Round Castable Male

Hader CX Round Castable offers an economical solution for casting post-copings and copings.



1. Laboratory instructions

1. Wax-up the post coping as low as possible and incorporate the castable male (ref- 5011009-1)



2. Use the Hader Male Paralleling Mandrel (ref-5011034-1) to ensure the males are parallel to each other. The occlusal surface must be at a 90° angle to the path of insertion.



3. Invest and cast in a hard alloy.
4. Use the Hader CX Cup Bur (ref- 5011018-1) to finish the casted male. Polish. Do not sandblast.



2. Chairside instructions

1. After trying in the casted structure, it is possible to:
A- Cement, take a full impression copying the ball accurately and use the Hader Round Analog (ref- 5011008) to prepare the stone model, or,
B- Take a pick-up impression and prepare the stone model.

Threaded Base Ring + Male

To be used on copings, post-copings, and bar constructions. It allows the easy replacement of the male. It is available in IRAX for precious alloys and NOPRAX for non-precious alloys.



1. Laboratory instructions

1. Wax-up the post coping as low as possible and incorporate the base ring with the paralleling mandrel (ref- 5051047-1). IRAX (ref- 5011037-1) is for use with precious alloys and NOPRAX (ref- 5011038-1) with non-precious alloys.



2. Ensure all base rings are parallel to each other and that the occlusal surface is at a 90° angle to the path of insertion. Add wax all around the base ring. It is recommendable to limit the waxing just before the upper ledge of the metal ring (a few tenths of a mm), to prevent metal from flowing into the ring during processing.



3. It is advisable to confirm the correct position of the base rings. This can be done with the help of the diagnostic impression used as a matrix.
4. Invest and cast in the chosen alloy. Polish. Do not sandblast.



2. Chairside instructions

1. Try-in to ensure fit and cement following the recommendations of the manufacturer.
2. Thread the male impression tool (ref- 5011044) in the base ring and take the impression.
3. With the Hader CX 0.9mm driver (ref- 5011040-1), thread the Hader CX protection cap (ref- 5011039) to the post while the prosthesis is processed.
5. When the prosthesis is ready, remove the protection cap and thread the Hader Ball Standard (ref- 5011010-1), or Long (ref- 5011011-1).



4. In the laboratory, thread the male (ref- 5011044) and female impression tool (ref- 5011043) and fit the assembly to the index in the impression to prepare the stone model.



New Acrylic Resin Denture

Follow this instructions for processing a Hader CX Housing into a new acrylic resin denture.

1. Laboratory instructions

For Castable Male

Use the Hader Round Model Analog (ref- 5011008) by inserting it in the index created by the male in the impression. Pour the master model.

1. Produce the master model

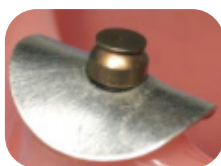


For Threaded Base Ring

Thread the male (ref- 5011044) and female (ref- 5011043) impression tool together and insert them in the index in the impression. Pour the master model. Remove the male impression tool. The analogue will stay in the master model. Use the Hader CX 0.9mm driver (ref- 5011040-1) to thread the Hader Threaded Male Ball Standard (ref- 5011010-1), or Long (ref- 5011011-1), to the analog.



2. Place the Hader O'Ring space maintainer (ref- 5011024) and the Hader round tin spacer (ref- 5011036-1) over the male and adjust to the shape.
3. 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.

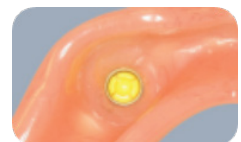


4. The Hader CX metal housing and round female component can correct misalignments of up to 30° for each abutment. Use the Hader female paralleling mandrel to ensure the housings are parallel to each other and in 90° angle insertion path.



5. Protect the inside of the housing with a small amount of Vaseline, place the wax denture over the model and invest.
6. Process the acrylic denture, finish, and polish accordingly.

7. Remove and discard both space maintainers and ensure the retention is appropriate. The plastic insert can be replaced if necessary.



Existing Acrylic Resin Denture

Follow this instructions to transform an existing denture to receive a Hader CX housing. This procedure can be done in the laboratory (indirect method) or chairside (direct method)

Indirect Method

1. Laboratory instructions

1. Produce the master model

For Castable Male

Use the Hader Round Model Analog (ref- 5011008) by inserting it in the index created by the male in the impression. Pour the master model.



2. Relieve the denture that will receive the Hader CX Housing and create vents to permit any excess of fluid acrylic to escape to the lingual side of the denture.



5. The Hader CX metal housing and round female component can correct misalignments of up to 30° for each abutment. Use the Hader female paralleling mandrel to ensure the housings are parallel to each other and in 90° angle insertion path.



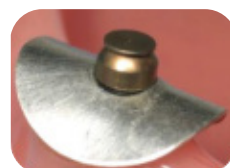
7. Let the acrylic set according to the recommendations of the manufacturer. Remove any excess of acrylic. Finish and polish.

For Threaded Base Ring

Thread the male (ref- 5011044) and female (ref- 5011043) impression tool together and insert them in the index in the impression. Pour the master model. Remove the male impression tool. The analogue will stay in the master model. Use the Hader CX 0.9mm driver (ref- 5011040-1) to thread the Hader Threaded Male Ball Standard (ref- 5011010-1), or Long (ref- 5011011-1), to the analog.



3. Place the Hader O'Ring space maintainer (ref- 5011024) and the Hader round tin spacer (ref- 5011036-1) over the male and adjust to the shape.



4. 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.



6. Protect the inside of the housing with a small amount of Vaseline, add acrylic resin to the relieves in the denture and place over the model.



8. Remove and discard both space maintainers and ensure the retention is appropriate. The plastic insert can be replaced if necessary.

Direct Method

1. Chairside instructions

1. Relieve the denture that will receive the Hader CX Housing and create vents to permit any excess of fluid acrylic to escape to the lingual side of the denture.

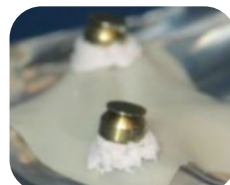


5. The Hader CX metal housing and round female component can correct misalignments of up to 30° for each abutment. In the mouth, the housings can be rotated with any flat instrument like a tongue depressor.

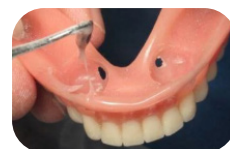


7. Let the acrylic set according to the recommendations of the manufacturer. Remove any excess of acrylic. Finish and polish.

2. Place the Hader O'Ring space maintainer over the male in the mouth (ref- 5011024) and a rubber dam over the ball and surrounding areas.



3. 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.



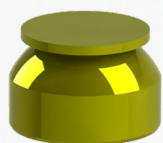
4. Block any undercuts.

6. Add cold cure acrylic resin to the relieves in the denture and seat in place.



8. Remove and discard both space maintainers and 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

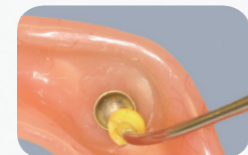
Use the Hader CX Insertion Tool (ref- 5011014-1) to insert the plastic element into the metal housing by placing it on a flat surface and pressing down firmly.



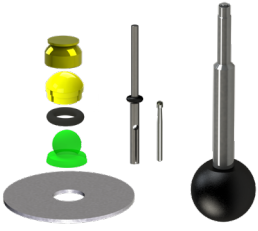
Choose between three levels of retention:
(ref- 5011019) – Yellow for standard retention
(ref- 5011020) – White for reduced retention
(ref- 5011021) – Red for increased retention



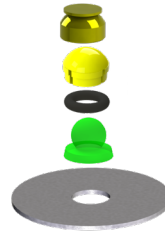
To replace a plastic insert, use a hot or sharp instrument to remove it from the housing and repeat the previous step to insert a new one.



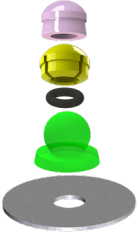
Available Kits



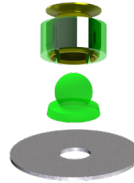
5013003
**Hader CX Lab
Starter Kit 003**



5012002
Hader CX 002
Metal housing and
plastic male for
incorporation into post
copings.



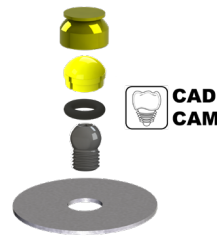
5012003
Hader CX 003
Plastic male for
incorporation into post
copings with duplicating
dummy.



5012022
Hader CX 022
Attachment kit with Hader
round female in TITANAX
and castable male.



5012005
Hader CX 005
Axial attachment with
replaceable male and
female components.



5012016
**Hader CX 016 CAD-
CAM**
Axial attachment with
replaceable male and
female components.

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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