

Heraeus Kulzer

Mitsui Chemicals Group

cara 

cara I-Bridge[®]

Manual



cara makes life so easy



Welcome to cara I-Bridge®

In this document you will learn more about cara I-Bridge and what you need to consider before you order our product. This manual is a detailed description of the process. Still if you have any further questions, you are welcome to contact Customer Service on +46 42 453 07 00. You can also find more information on our website at www.cara-kulzer.com



cara I-Bridge Cobalt Chrome

CoCr

- Laser-sintered or milled framework
- cobalt chrome that complies with the standard EN ISO22674
- Simple to grind and to veneer with ceramic
- Production time: 5 days

cara I-Bridge Titanium

Ti

- Fully-milled framework
- Grade2: ISO 5832-2, ASTM F67
- An excellent choice for biocompatibility
- Production time: 3 days

cara I-Bridge Zirconia

Zr

- Fully-milled framework
- Tissue-friendly uncoloured zirconia according to standard EN 6872
- Up to six components with a maximum of three fixtures
- Max. height of prototype: 20 mm
- Production time: 5 days

Not all products are available in all markets.

cara I-Bridge® gives you many options to choose from.

cara I-Bridge is a good value implant bridge that is precision-manufactured and homogenous, and comes with straight or angled screw channels. It has a documented fit and is produced by using the latest CAD/CAM technology. cara I-Bridge is available as regular (straight screw channels) and angled (angled screw channels), and comes in cobalt chrome, titanium and zirconia for the market's leading implant systems.

With our unique, patented cara I-Bridge angled, you can angle the screw channels up to 20°. Angled screw channels enable you to place the implant in the best position possible without having to pay for costly abutments. This makes cara I-Bridge both financially and aesthetically favourable.

For more information about our different systems, please see overview of platforms and systems at www.cara-kulzer.com



This prosthetic solution not only gives you the greatest choice, it is also covered by the most comprehensive warranty on the market.

Heraeus Kulzer provides a warranty card for every cara I-Bridge that meets the production requirements. This means that the patient receives a new cara I-Bridge as a replacement if the bridge shows any defects caused in the production process at Heraeus Kulzer.





How to order and make a cara I-Bridge®

In this section we will explain how to order and prepare your cara I-Bridge. When you come to the option to angle the screw channel, you can choose to use either cara I-Flex or the Angulation Guide to make the cara I-Bridge angled template.

Dentists

Take an impression with the original system's impression copings (except for Switch level, see information box to the right). Send the impression to your dental laboratory and order a cara I-Bridge regular or angled.

The production time is three working days for titanium bridges and five working days for bridges made out of cobalt chrome or zirconia. You also need to take into account the delivery time and the laboratory's working time. cara I-Bridge regular is supplied with prosthetic screws, whereas cara I-Bridge angled is supplied with prosthetic screws and laboratory screws.

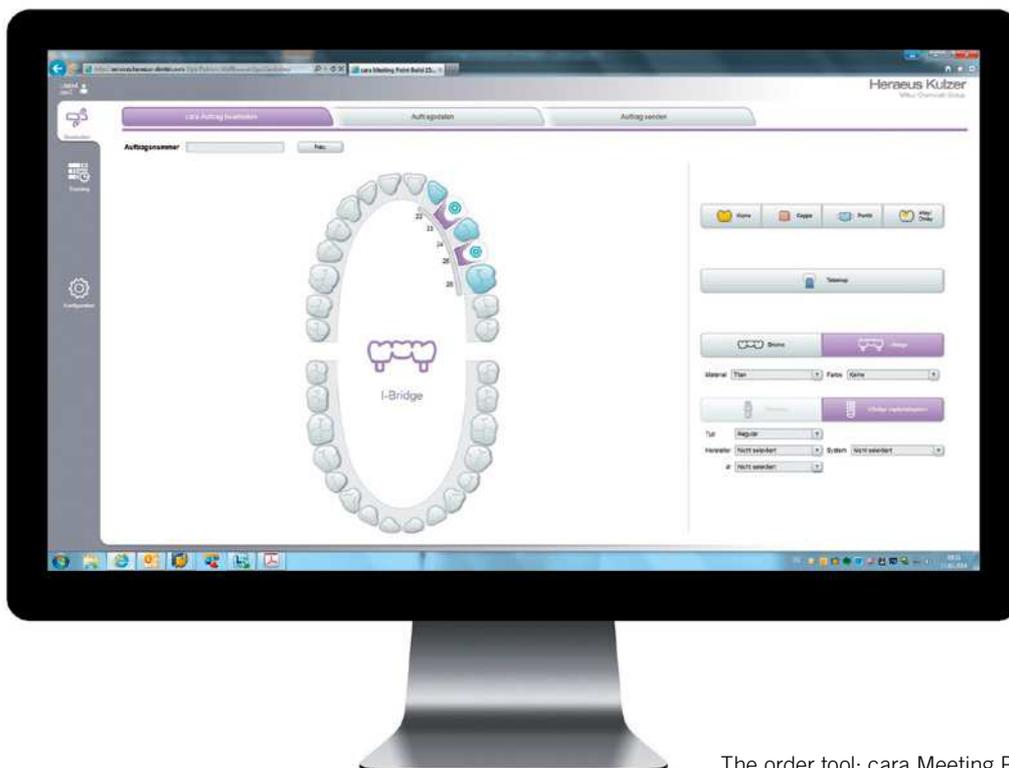
Dental Technicians

You place your orders for cara I-Bridge by using the cara Meeting Point software, which you can download from the Heraeus Kulzer website, by using our cara app, cara mobile Meeting Point, or direct through your 3Shape system. Files in STL format from open scanners can be uploaded at cara Meeting Point. If you want to order components to produce models and prototypes, please contact Customer Service. For cara I-Bridge angled you need either a cara I-Flex for each implant including an Access guide or the Angulation Guide to ensure that you do not exceed the maximum screw channel angle. Please refer to the process on the following pages.

Additional requirements for cara I-Bridge angled (Switch level).

Screw the switch onto the implant with a 0.048 hex screwdriver (refer to our screwdriver guide on page 11) using manual power (15 Ncm).

Make an impression of the switches using the switch impression copings and send to the dental technician. Screw the healing spacer sleeves onto the switches.



The order tool: cara Meeting Point

▶ Process for cara I-Bridge[®] regular

This is a manual describing how to make your cara I-Bridge. The process follows the description of cara I-Bridge regular. When you come to the option to angle the screw channel, you can choose to use either cara I-Flex or the Angulation Guide to make the cara I-Bridge angled template.



1 Mount the analogues onto the impression. Make sure that the analogues are firmly attached to the impression material.



2 Apply soft tissue replacement approx. 1–2 mm on the analogue. This enables us to visually inspect the fit.



3 Enclose the impression and pour in the plaster.



4 Make a bite template using cylinders and connect them with acrylic resin.



5 Set up the teeth with the help of cylinders and connect them with acrylic resin.



6 Take a pre-mould of the teeth set-up by using putty mass so that you can reposition it on the model.

••• Please refer to page 8 when using cara I-Flex and an Access guide.



7 Using the pre-mould, make an acrylic template that shows exactly how your I-Bridge should look like.

••• Please refer to page 6 when using the Angulation Guide.



8 Order at www.cara-kulzer.com

Place your order for cara I-Bridge regular. Send the model and template to Heraeus Kulzer in Helsingborg, Sweden.



Process for cara I-Bridge® angled Angulation Guide



1 Insert the fixed rod of the Angulation Guide into the temporary cylinder until it reaches the screw seating.

NOTE: The cylinder should not contain a screw.



2 Point the movable rod on the template.



3 The angle between the two rods is 20°. This is the maximum possible angulation for cara I-Bridge angled.



4 You can choose the position of the screw channel exit hole anywhere between the cylinder rod and the pointed rod.



5 Indicate the desired angle wax.



6 Repeat the process for all screw channels that require angulation.



7 The raised indicators are read by the scanner to show the desired position of the screw hole.



8 If one of the screw channels is angled, the entire bridge is supplied with seatings and screws for angled screw channels. This enables you to use the same screwdriver for all screws.



9 If the angle exceeds 20°, the screw channel will be repositioned by a dental technician at Heraeus Kulzer to the furthest possible angle in the same direction.



Process for cara I-Bridge[®] angled Angulation Guide

10



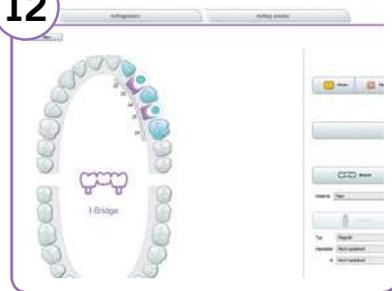
The holes in the temporary cylinders do not need to be covered. Those are covered automatically in the preparatory program.

11



It is possible to cover the screw holes if you wish to do so for design purposes, do not leave the screw beneath. However, at least one hole must remain open.

12



Order at www.cara-kulzer.com

Place your order for cara I-Bridge angled. Send the model and template to Heraeus Kulzer in Helsingborg, Sweden.



cara angulation guide



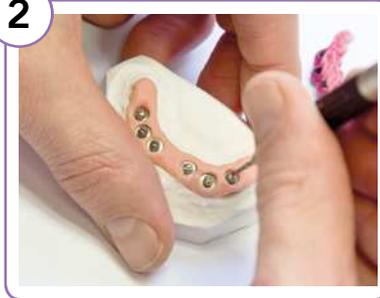
Process for cara I-Bridge[®] angled cara I-Flex and Access Guides

1



Make a pre-mould (impression) of the teeth set-up by using putty mass.

2



Screw cara I-Flex (ball screws and spacer sleeves) on the analogues and clip on the Access guides, note the right position for the spacers.

3



Use the cara I-Flex with Access guides for orientation of the desired angle (max. 20°) using the pre-mould as an index.

4



To fix the position of the Access guide and protect the ball from acrylic resin, place some wax between the Access guide and the analogue.

5



The Access guides are encased in plastic and an acrylic template is formed.

6



The Access guides are ground down to the level of the template. It is important that the holes of the Access guides are not covered with acrylic resin.

7



The maximum construction height is 25 mm for titanium and cobalt chrome. The maximum height for zirconia is 20 mm.

8



When cara I-Flex is used for small bridge sections on two implants or when the implants are in a line, the prototype must be fixed with cara I-Flex on the model with wax.

9



Order at www.cara-kulzer.com

Place your order for cara I-Bridge angled. Send the model and template to Heraeus Kulzer in Helsingborg, Sweden.



Final steps in the process

ceramic firing



1 Grind over the bridge by using a cross-cut tungsten carbide burr. Afterwards sand-blast the framework with Al_2O_3 appr. 125 μm and 3–4 bar pressure.



2 Apply opaque to the framework in accordance with the manufacturer's instructions.



3 Veneer the cara I-Bridge as usual.

TIPP: Use Oxid-Stop on the implant connection for avoiding oxidation!

 Keep attention to the implant connection



4 Ceramic veneering is completed in accordance with the manufacturer's instructions.

Other important information.

cara I-Bridge is screwed into position in the mouth using the enclosed prosthetic screws and the torque stated on the packaging. Only the prosthetic screws and screwdriver supplied and are designed for cara I-Bridge angled should be used with cara I-Bridge angled. Also read our detailed information about cara I-Bridge when placing your order. Heraeus Kulzer does not assume liability for printing errors.

cara I-Bridge new connection

You can now order cara I-Bridge for all implant systems and in several different materials.

Contact Customer Service on +46 42 453 07 00 for more information about how to order a cara I-Bridge new connection.



www.cara-I-Bridge.com



Points to remember on delivery of cara I-Bridge®

Working with cara I-Bridge is simple and flexible. Please use the points below for help. However, this is not a list of instructions; you can use other working methods if you wish.

Provisional delivery

- Check the bridge design and confirm that it fits the model and the patient's mouth. The implant bridge is made to fit perfectly.
- It is important to clean the implant and all components before you attach them with screws.
- Use a torque wrench. Start with the implant that is most angled.
- Then tighten the bridge screws in the implant in a non-linear sequence (preferably far from each other and preferably contralaterally). Tighten the screws alternately and press down on the opposite side of the bridge as you fasten each screw.
- Check the occlusion, articulation etc.
- Screw on the bridge, almost to the torque that is given on the screw packaging.
- Place something into the hole to protect the head of the screw, e.g.
 - Unitape. Teflon band which is packed down into the hole.
 - Silicon tubing, 2 mm diameter. Cut to a suitable length.
 - Cured impression material from the syringe, such as purple Flexitime®. However, it may be difficult to extract all the material if the holes are deep. Do not apply impression mass directly onto the screws! Impression mass is difficult to remove. It might surround the screw, which can cause problems when the screw has to be removed.
- Finally, cover the holes with temporary light-cured filling material. If you want, you can fill the holes with impression material after you have made sure that the screw heads are protected.

You need:

Torque wrench

cara Manual Torque Wrench can be used for angled bridges. You can also use a cara Manual Torque Wrench for a straight bridge, or you can use the torque wrench that is specific to your implant system.

Screwdriver for angled screw channel

cara I-Bridge Angulation Screwdriver. The screwdriver is available in the following lengths: 18, 24, 29, 32, 35 mm.

Screwdriver for straight screw channel

Heraeus Kulzer sells screwdrivers that fit most original systems. Use these or a screwdriver from the implant manufacturer.

Final delivery

- Check the function, occlusion, oral hygiene, comfort, etc.
- Using the torque wrench, retighten the screws to the recommended torque for each screw. Protect the screw heads with the Teflon band or silicon tubing, then fill each screw hole with composite.
- Take an X-ray and check the fitting.
- If the patient has bruxism or is a severe tooth grinder, measures should be taken to minimise the risk of any future problems with the implant and cara I-Bridge.
- Give the patient a Heraeus Kulzer warranty card. Record the cara I-Bridge ID number in the patient records. Heraeus Kulzer saves all files and can easily access information about your bridge should you have any questions.

