

Cendres+Métaux Crowns and Bridges (Zirconia) / Custom-made device

Instructions for use

Use of the product must be carried out exclusively by skilled persons.

The issuing of these instructions for use renders all previous versions invalid.

The manufacturer rejects any liability for damages resulting from non-compliance with these instructions for use.

Taking into account the indications, tooth preparation, selected materials and features of the laboratory scanner, the specified parameters at

<http://www.cmsa.ch/dental> (select english language), under **Products > Digital Solutions > Digital Solutions Product** are to be used as guide values. Own experience and knowledge are required for accurately-fitting restorations.

For software updates or when using a different/new scanner, caution is advised and when necessary, contact Cendres+Métaux Customer Service.

Intended use

Custom-made, cemented single-unit framework or bridge for a crown on natural teeth or implant abutments.

General information

Close cooperation between the dentist and the dental technician is essential for successful treatment.

It is particularly important to ensure an optimal load distribution through adaptation and fitting. This is achieved by adjusting the occlusion in relation to the antagonist.

It is essential to protect the components against aspiration when working in the mouth.

If the restoration needs to be modified, observe the edge areas and the occlusal surfaces. A minimum thickness of 0.4 mm should be maintained. Wear adequate protective clothing during modification to avoid breathing in zirconium dust.

If fitting is performed in the mouth, we recommend cleaning the restoration under running water or with alcohol.

Traceability of the batch numbers

The corresponding batch numbers must be recorded to ensure traceability.

Disinfection/sterilization

The single-unit frameworks or bridges are supplied non-sterile and should therefore be disinfected prior to fitting, again after fitting and prior to cementation with a suitable disinfectant (e.g. 70 % ethanol solution).

MRT environment:

The product has not been evaluated / tested in an MRT environment with regard to overheating and movement.

Indications

- Anterior or posterior frameworks, fully anatomical crowns or bridges as prostheses.
- Prosthesis on teeth or implants.
- For a bridge length of up to 6 elements.
- Minimum thickness 0.4 mm.
- All buccal positions.
- Interdental connection in accordance with scientific literature: 6.0 mm² (for anterior bridge) up to 9.0 mm² (posterior bridge).

Fabrication	Single crown bridges		Bridges, number of intermediate elements	
	Anterior	Posterior	Anterior	Posterior
CAM milling, sintering and ceramic veneering	X	X	2	2

X indexed, numbers give the maximum number of intermediate elements.

Contraindications

- All cases with lengths exceeding maximum limits.
- Patients with bruxism or other para-functional habits.
- Lacking cooperation of the patient with respect to follow-up / recall instructions.
- In patients with allergies to one or more elements of the material.
- More than one freely suspended bridge element as extension.

The products carry the CE Mark.
See packaging for details.

Cendres+Métaux Crowns and Bridges (Zirconia) / Custom-made device

Warnings

This product may not be used in patients with allergies to one or more elements of the materials. In patients with suspected allergy to one or more elements of the materials, this product may only be used following allergological clarification and proof of non-existence of an allergy. For further information, please contact your Cendres+Métaux representative.

These instructions for use are not sufficient for immediate use. Knowledge of dental medicine or technology provided by an experienced person is required. Courses and training are regularly offered by Cendres+Métaux.

Preventive measures

- The components are supplied non-sterile. Proper preparation of the components prior to use in the mouth is described in the chapter on «Disinfection» and «Sterilization».
- Pay attention to regular cleaning of the denture to prevent any inflammation of the soft tissue.
- For intraoral use, all products must be generally secured against aspiration.

Clinical procedure

Cendres+Métaux refers to literature references and instructions for use for the clinical procedure.

Laboratory procedure

Fabrication of a plaster model:

- Cast the impression with dental plaster with low setting expansion and fabricate a master model.
- Allow the model to harden sufficiently to avoid changes in size.

Reworking the framework for ceramic veneers:

- The models should be articulated to avoid premature contact.
- Check the framework for faults, adequate wall thickness and fit.
- If required, small modifications can be made using a diamond drill or disc with fine graining at low pressure and sufficient water cooling.
- Rinse the framework under water and dry it. It is now ready for further processing.

Cleaning:

- Steam cleaning

Ceramic veneers:

- Ceramics should be used which are designed for use with ZrO₂.
- Please follow the manufacturer's instructions.
- After firing, the object is cooled in accordance with the instructions of use of the ceramics manufacturer. The characteristics of the ceramic furnaces are to be observed.

Firing table

	Heating rate °C/h	T max °C	Dwell time h	Cooling
Crowns	600	1450	2	in furnace
Bridges	300	1450	2	

Polishing

- Pre-polishing with rubber polisher.
- Polishing with a soft brush, felt and buffing wheel using Legabril Diamond.
- High-gloss polishing with soft brush and buffing wheel.

Cendres+Métaux Crowns and Bridges (Zirconia) / Custom-made device

3 / 3
02.2014

Material

ZrO₂ (Y-TZP) according to ISO 13356 and DIN EN ISO 6872.
CE 0297.

Reference analysis %	ZrO ₂ + HfO ₂ + Y ₂ O ₃	Y ₂ O ₃	HfO ₂	Al ₂ O ₃	other oxides
	> 99	4.5–6.0	< 5.0	< 0.5	< 0.5

For further information, please contact your Cendres+Métaux representative.

Disclaimer / validity

The issuing of these instructions for use renders all previous versions invalid.

The manufacturer rejects any liability for damages resulting from non-compliance with these instructions for use.

Availability

Not all products are available in every country.

Labeling on packaging / symbols



Manufacturer



Catalogue number



Batch code



Quantity



Consult instructions for use

Rx only

Attention: According to US federal law, this product may only be sold by or on behalf of a physician.



Do not re-use



Non-sterile

Custom-made device