

One piece casting

Double crowns and CoCr work in one piece casting



Due to the simple handling of the system, the dental technician can save up to 40 % of production time compared to a combination work of gold/CoCr alloy. Adjustment of friction of each secondary element is possible within approx. 6 minutes due to the exact expansion control of the investment material. Additionally, purchasing and storage costs of gold alloys are reduced by 90 %. The high modulus of elasticity of CoCr alloys (Brealloy C +B 270 = 200,000 MPa) allows to produce very small dental restorations and thus increased aesthetics of e.g. ceramic veneers can be achieved.

New applications for palate-free upper dentures or clasp-free lower restorations give patients increased comfort of wear. The reception of taste and the phonetics are no longer affected negatively by such constructions.

The high biocompatibility of the CoCr alloys is supported so that electrochemical stress will not occur. The low thermal conductivity of CoCr alloys allows to reduce hot/cold sensitization considerably compared to gold alloys resulting in an increase of patients' general well-being.

Patients, dentists and dental technicians will benefit from the material saved in the one piece casting technique. For example, the dentist can induce his dental laboratory to produce a telescopic work featuring improved quality and aesthetics. Since less work is required, the dental technician will save time which can be used to perform other activities. No material costs will have to be borne by patients since the health insurance companies will pay all costs of the alloys.

Patients, dentists and dental laboratories will benefit from this one piece casting technique.

Advantages of one piece casting for the:

1. Patient

- reduced overall costs due to saving of material and still offering the same or enhanced quality
- higher biocompatibility
- improved well-being due to thinner constructions
- enhanced phonetics
- natural reception of taste
- no foreign body in the mouth

2. Dentist

- Can increase patient satisfaction due to thinner restorations,
- Patients can receive more valuable restorations due to lower costs
- Less prone to plaque accumulation - prolonged preservation of teeth
- Increased tissue compatibility since only one metal is used

3. Dental technician

- More profit due to saving of material and reduction of storage costs
- Less time required compared to conventional techniques
- More options due to very small restorations
- More space for veneers
- Simple handling of the system

We strive to ensure your success!

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The bredent system allows to produce thin, biocompatible and precision-fit one piece casting supply.



1 The primary crowns are prepared with the 2° wax bur F200 2W 23.



2 A max. wall thickness of 0,3 - 0,4 mm must be ensured.

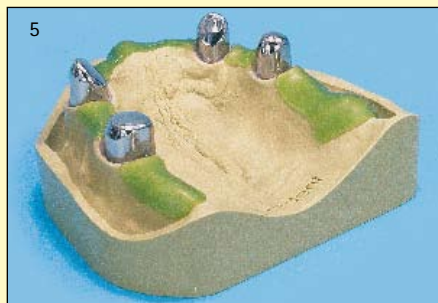


3 The crowns are milled quickly using Brealloys C + B 270 and the 2° NE profile bur.



4 Perfect high lustre is achieved with Brepol prepolishing and high lustre polishing paste in a very short time.

See page 5.2 for detailed information on the milling unit BF1!



5 The model is prepared for duplicating in the usual way using Protek preparation wax.



6 The dk-sil duplicating flask and Exaktosil N17 are used for duplicating.



7 The exact expansion control offered by Brevest M1 is the prerequisite to produce precision-fit CoCr restorations.



8 The secondary crowns are prepared with the CoCr object in the time-saving one piece casting technique.



Order the course documentation „Double crowns and CoCr supply in the one piece casting technique“!

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Subject to changes