# SAE Technology – Biocompatible Dentures

## Telescopic double crowns with controllable friction pins made of CoCrMo

Using the SAE spark erosion procedure, grooves for friction pins are eroded parallel into the double crowns.

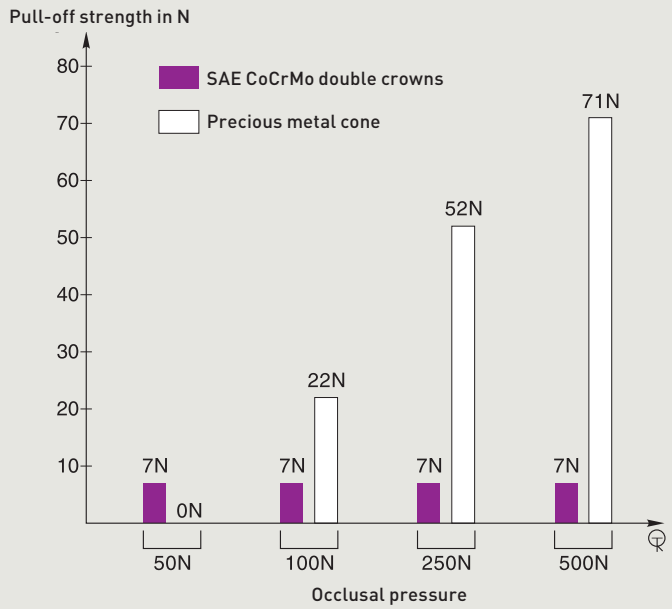
The pins that are inserted after erosion have a diameter of 0.8 – 0.9 mm and are secured to the model cast with the identical alloy using laser welding – no soldering needed!

It is not necessary to use the cone angle with double crowns made of CoCrMo or titanium. This means that with the double crown with a 2° angle of inclination, there is available space for more aesthetics with ceramic or acrylic veneers.

Long-term experience using CoCrMo in connection with the precision casting technique from SAE creates the conditions for being able to make non-bar, bridge-like structures that are light and stable.

**Controlled, pull-off strength of telescopic dentures with long-term testing**

Tests done at Bremerhaven Technical College




With the telescopic double crowns made using the SAE procedure, the pull-off strength remains constant even under increasing occlusal pressure.

The test shows that, irrespective of the occlusal pressure, the pull-off strength of 7 Newton remains constant. The friction bonding of the denture in the mouth of the prosthesis wearer is secure and optimal.

The SAE technology avoids dentures becoming wedged upon insertion and avoids a loss of friction, as occurs with conventional dentures with tapered crowns.

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**www.sae-dental.de**

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## With telescopic double crowns, with controllable friction, made of CoCrMo nickel-free, composite veneer

- excellent light-weight design for increased patient comfort
- Plaque-free composite veneers (Chromasit) for natural aesthetic appearance
- Perfect oral hygiene due to easy insertion and removal by the patient
- Good value due to low-cost extensibility to full-arch restoration

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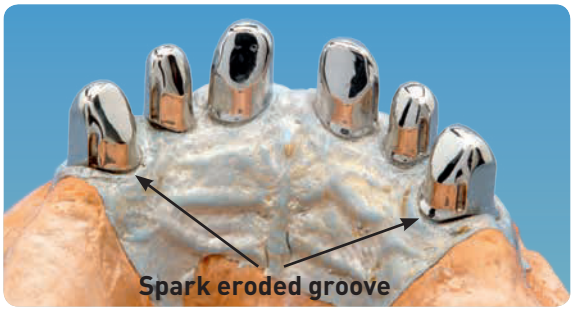
biocompatible dental prosthesis
natural. aesthetical!

Precise fit, tension-free, single cast CoCrMo model using the SAE system – without soldering, biocompatible




Primary crowns with sloping shoulder

Telescopic double crowns friction-bonded by friction pins welded into spark-eroded grooves