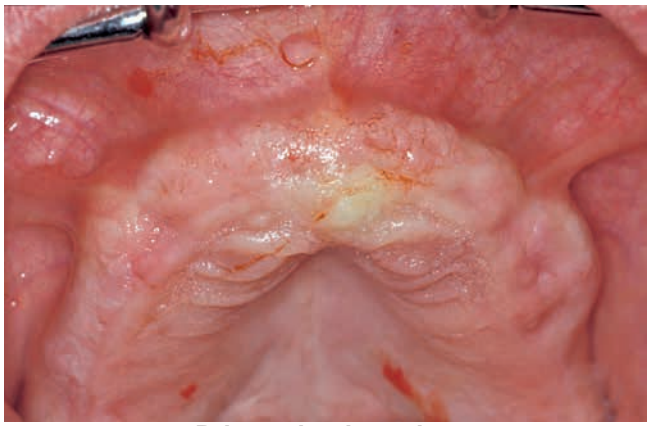
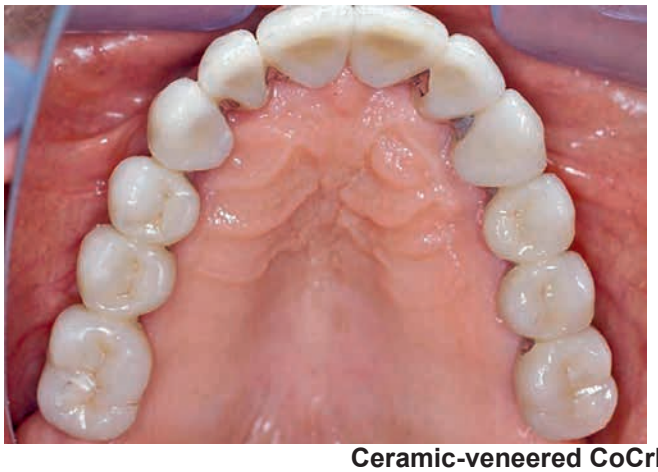
SAE Spark Erosion
Implant-retained prosthesis with tension-free fit



Prior to implantation

Implants in place



Ceramic-veneered CoCrMo bridge with passive fit

Clinical photos:
Prof. Dr. med. dent. German Gomez,
Tübingen University Dentistry,
Oral and Maxillofacial Surgery Center
Prosthodontic Outpatient Unit
Prof. Dr. med. dent. H. Weber

Case 21i

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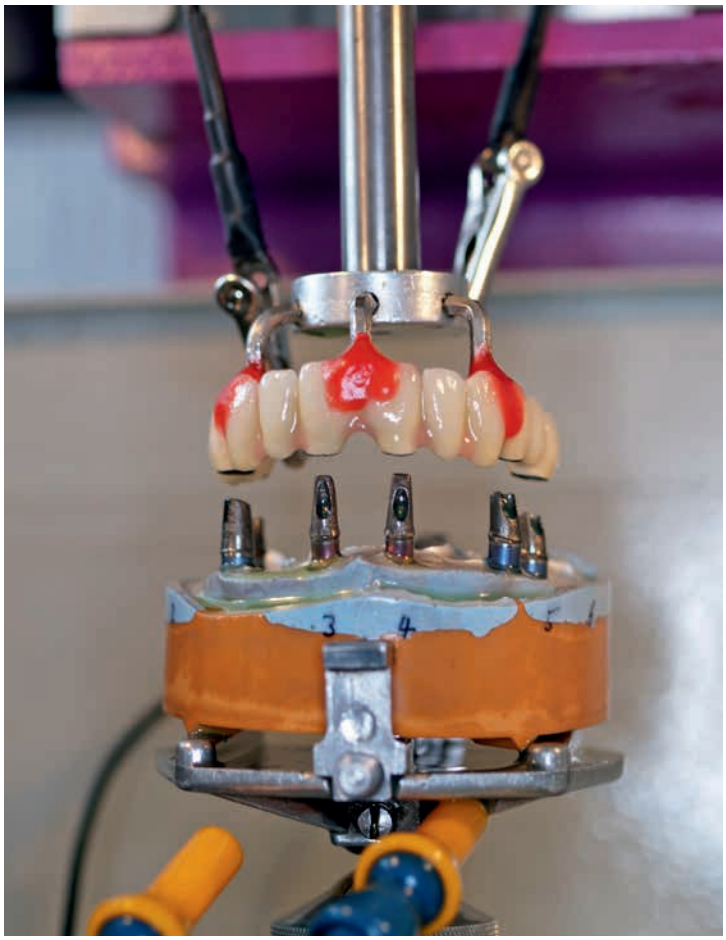
Cemented CoCrMo maxillary bridge ceramic veneer, on customized titanium Frialit Systems Xive® abutments

The tension-free precision fit of the suprastructure on the implants was achieved through the inter-disciplinary effort of the dentists and dental technicians.

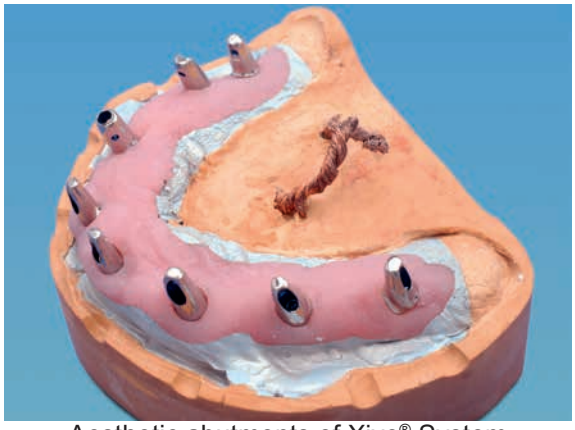
The prerequisites for this are:

1. Checking the position of the implant replicas versus the actual implant position (abutment position check)
2. Creating models that are consistent in form
3. Passivation of the suprastructures using spark erosion (SAE Secotec technique)

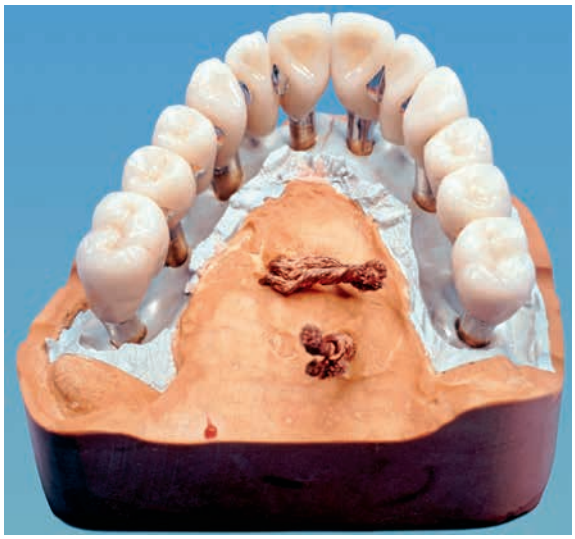
biocompatible dental prosthesis
natural. aesthetic



Passivation by spark erosion in the spark erosion maschine

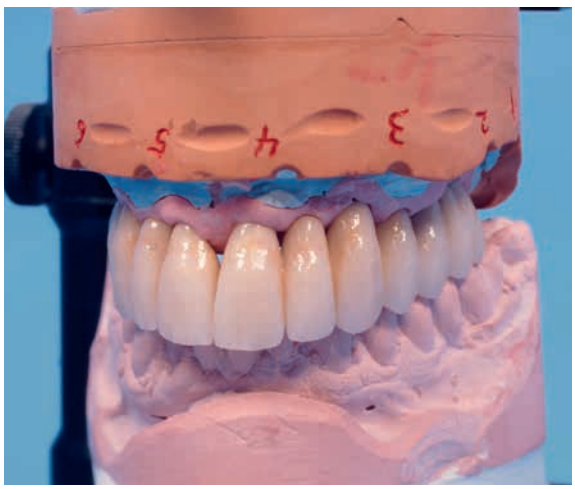


Aesthetic abutments of Xive® System (Dentsply Friadent)



Ceramic-veneered CoCrMo suprastructure with gingival flange removed

Suprastructure with passive fit, gap-less and tension-free fit



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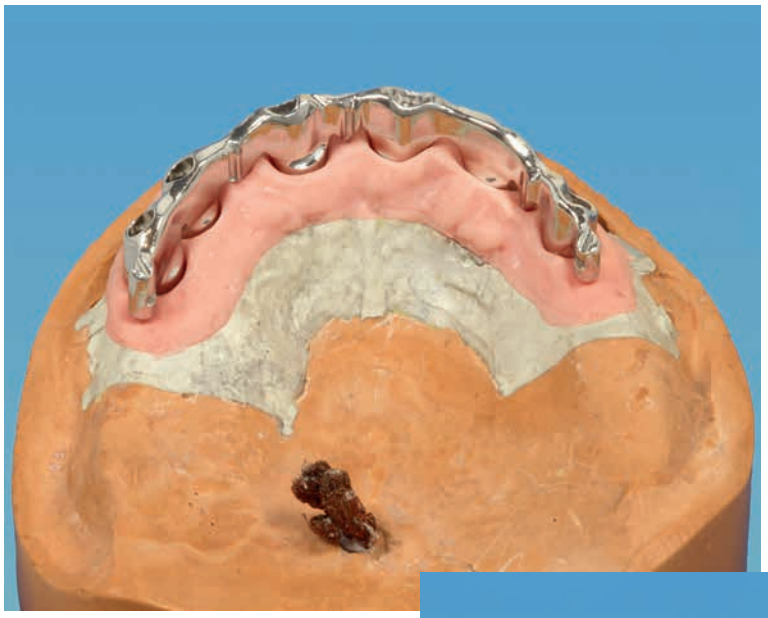
Implant-retained prosthesis with passive fit using SAE spark erosion technology



Case 17i
Bridge-shaped prosthesis latched to the mesostructure bar.

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Mesostructure bar screwed onto 6 Frialit implants with passive fit using SAE spark erosion to firmly secure the prosthesis by way of friction pins and 2 latches

Example: DELUXE!

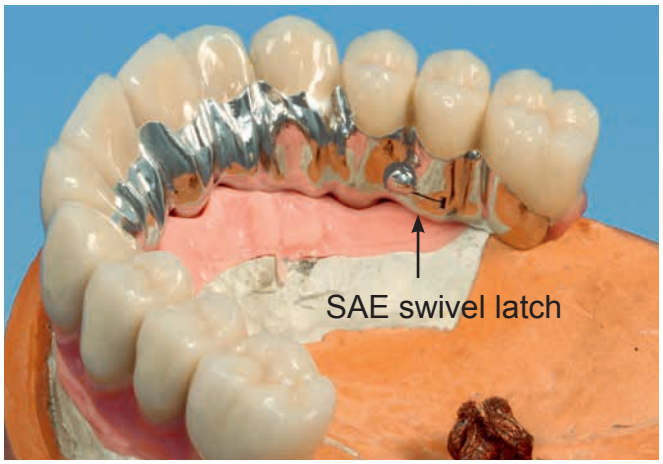


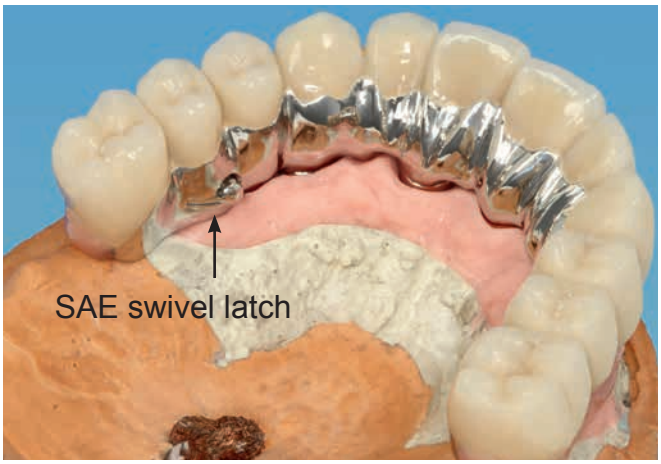
The delicate bridge shape and the natural appearance make this implant-retained prosthesis extremely comfortable for the patient.

The prosthesis is made entirely of CoCrMo – biocompatible – composite veneerd – with no soldering.

Inter-dental acrylic shield to support the cheek muscles and the lip profile.







biocompatible dental prosthesis natural. aesthetic

Bridge latched to bar

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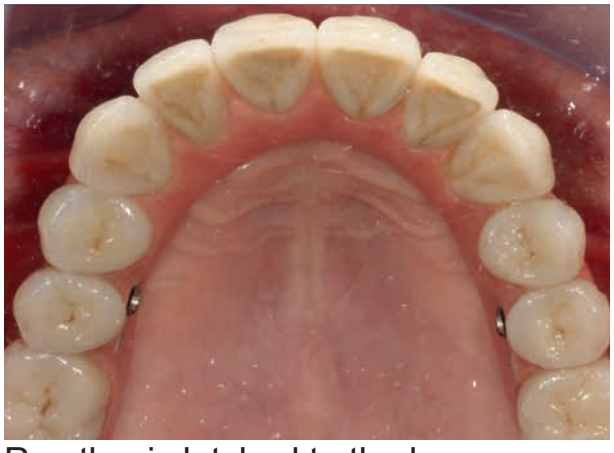
Implant-retained prosthesis with passive fit using SAE spark erosion

Case 18i
Bridge-shaped prosthesis latched to the bar structure.
Naturally aesthetic, all-ceramic, individual crowns and gum shield providing support for the lips and cheeks



Prosthesis latched to the bar

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Mesostructure bar and suprastructure on 7 implants System Nobel Biocare in upper jaw

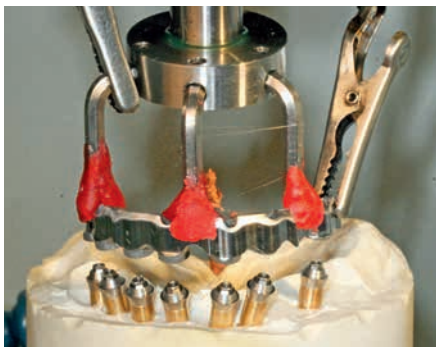
Example: DELUXE PLUS

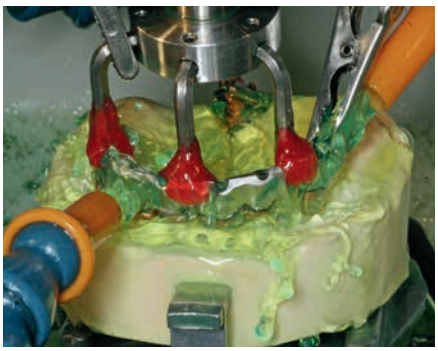
Natural bridge-shaped appearance with all-ceramic, individual crowns.

This 59 year old female patient wanted a fixed prosthesis for her edentulous upper jaw. On account of the atrophy of her upper jaw, a dental prosthesis with a cemented or screwed-in bridge was not possible.

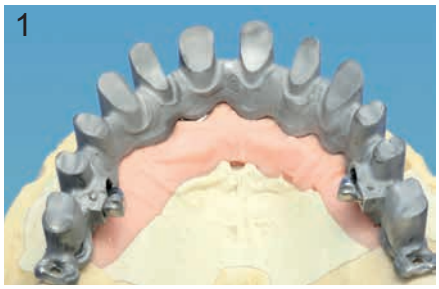
In order to satisfy the patient's wish of a natural inter-dental and aesthetic dental prosthesis to support the cheek muscles and the lip profile, a bridge was made and firmly secured to the tension-free bar structure using two latches.

The prosthesis can be easily taken out of the mouth for cleaning. This ensures a high level of hygiene.





passive fit using SAE spark erosion



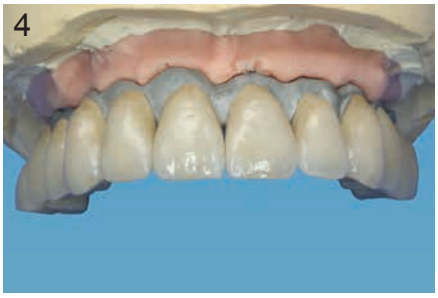


Photo legend

1. Mesostructure for ceramic crowns
2. Ceramic crowns with zirconium base
3. + 4. Ceramic crowns stuck to the mesostructure
5. Pink gum shield to support the cheeks and lips
6. 7 Implants – System Nobel Biocare
7. The mesostructure bar with passive fit
8. The opened latch

Clinical photos:
Dr. Thorsten Wegner and Dr. Carsten Prien – Charité University Medicine Berlin

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