

Anchor systems

Introduction

The Servo-Dental Anchor system is an extracoronal retention and support element for partial dentures. Servo-Dental Anchor systems are available both as resilient and rigid systems. The Servo-Anchor system with its interchangeable and activatable anchor ensures a safe fixation to the residual denture. Due to the slightly conical shape of the anchor the work can be easily inserted by the patient, thus enabling perfect hygiene. The anchor systems are available in platinum-iridium, HFA (high-fusing precious alloy) and NP (non-precious).

Processing



Use the paralleling tool to position the female due to the path of insertion. Position the female as near as possible to the crown. It is important to use an extra casting sprue on one-bar eyelets in order to get an optimal cast. Use casting sprues with a diameter of 3 millimeters.



When using bars the eyelet is also positioned as near as possible to the crown.



It is important to use an extra casting sprue on one-bar eyelets to obtain an optimal result.



Use casting sprues with a diameter of 3mm on the female parts.



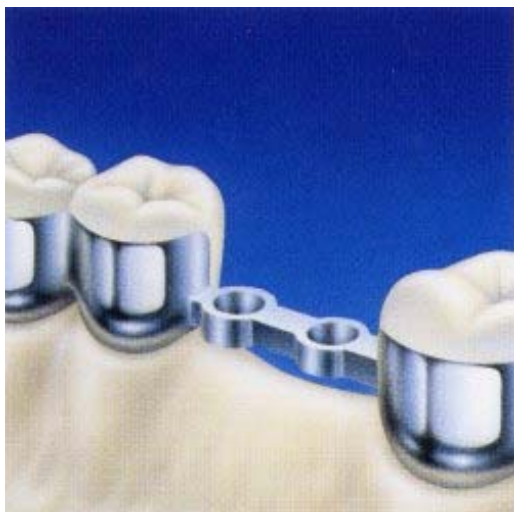
Casted work.



When using bars it is also important to position an extra casting sprue in the middle to obtain an optimal result.



The finished crowns with female and male components.

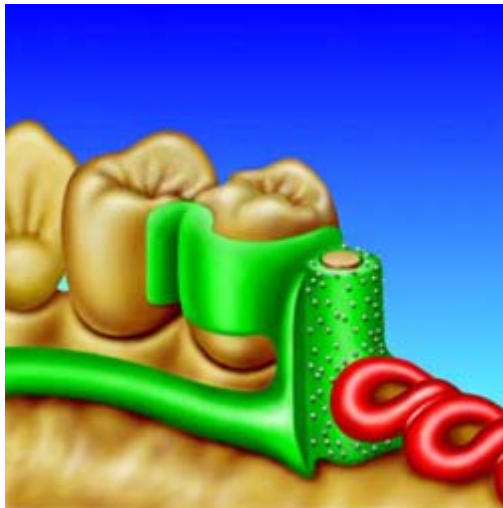


The finished bar.

Soldering technique



Before duplicating, position the auxiliary anchor (made of brass) into the female. Block out female from basal and fill undercuts with wax.



During wax up it is important to leave a little opening at the top of the solder cap for solder to be applied later.



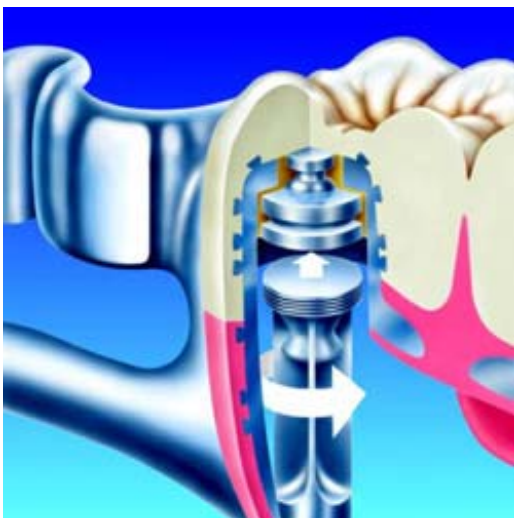
This figure shows the cast metal frame finished and prepared for fixing the solder cap.



The solder cap can be fixed either with self curing resin or by means of a spot-welding unit.

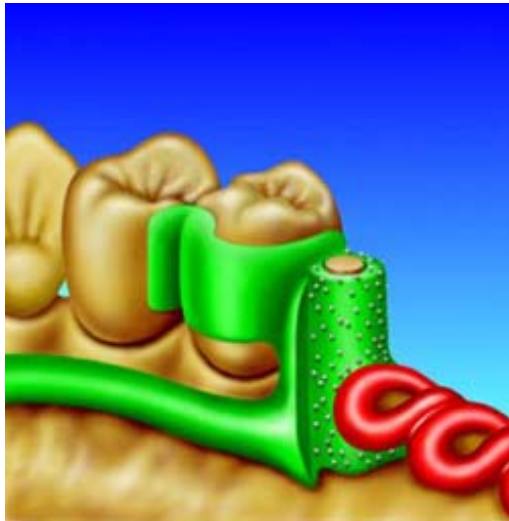


Screw the soldering aid into the fixed solder cap. Remove the cast metal frame from the model and invest it in a soldering investment. For soldering use a universal solder.



After the solder cap is fixed and the prosthesis is finished, the Servo-Dental anchor can be screwed

Bonding technique



During wax up it is important to leave a little excess opening at the top of the solder cap so that adhesive can overflow.



This figure shows the cast metal frame finished and prepared for fixing the solder cap.

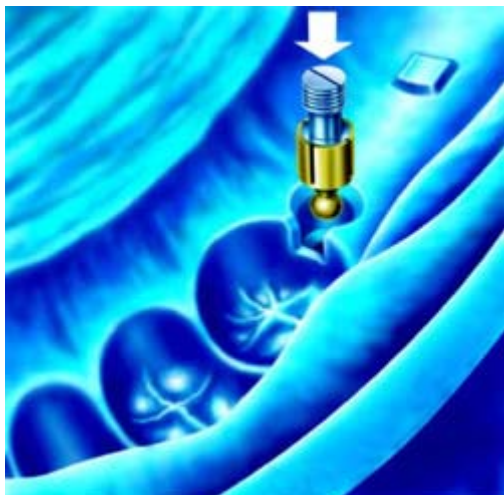


In order to avoid soldering, you can also bond using a two component adhesive (e.g. SD-Master-bond).

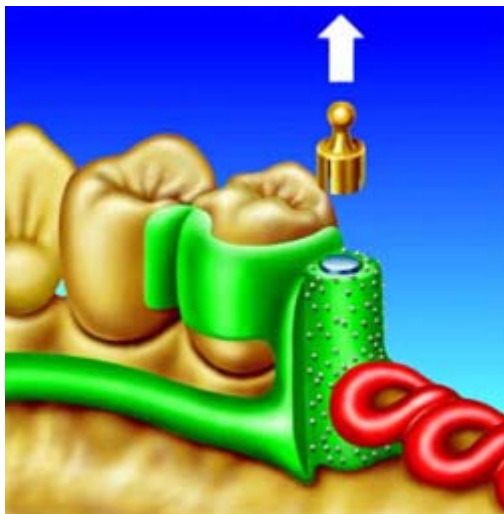
Castable nut



Before duplicating, position the auxiliary anchor into the female. Block out female from basal and fill undercuts with wax.



After duplication remove the model with the auxiliary anchor. Then replace auxiliary anchor by castable nut.



Before wax up remove the brass cap and cover the castable nut with wax. It is important to position the sprue approx. away from the nut. When you adapt the sprue directly onto the nut, it is possible that the penetrating metal can make the nut shrink during cool down.



After casting remove the threaded core, use as a spacer. However the nut should be covered with wax during electrolytic polishing, in order to avoid damage. Finish as usual.

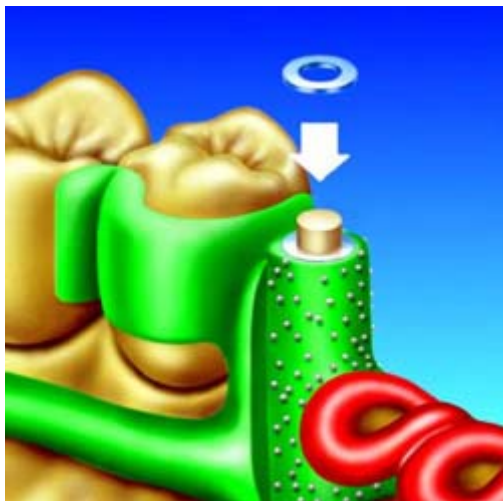


The figure on the left shows the function diagram. The figure on the right shows the finished work.

Open nut



Before duplicating place the auxiliary anchor into the female. Block out the female from basal and fill undercuts with wax.



Before wax up, place the plastic washer onto the male consist of investment in order to obtain a parallel surface between the cast frame and the open nut.

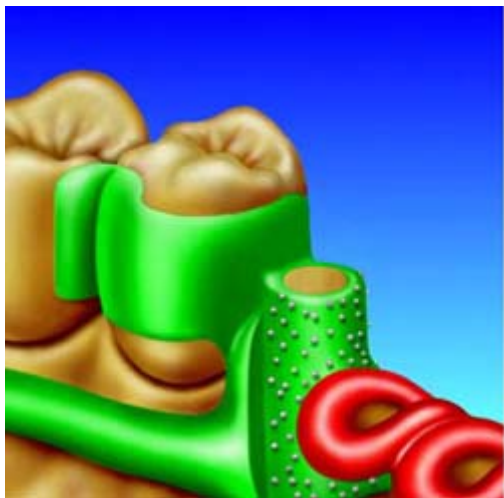


After finishing the cast frame place the male into the female and then position the frame onto the model. After that tighten the male from above using the open nut.

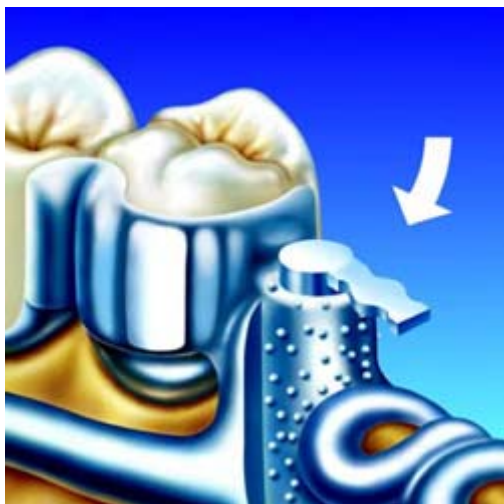
Retention for acrylic



Preparation for duplication – Block out undercuts and fill the inside of the female with wax.



Wax up frame around the closed female.



After finishing the cast metal frame place the male, with the fitted wing cap, into the female and fix it with acrylic resin. Finish work as usual.