



# SPARK EROSION PRECISION IMPLANT RESTORATION

## CONDENSED CLINICAL APPOINTMENT SEQUENCE

### **Appointment #1: Primary Impression**

- Record primary impression with stock tray. A preliminary impression is recorded over the healing abutments or the temporary abutments, providing the laboratory with a preliminary working cast. This preliminary cast will provide the restorative dentist and the laboratory with the initial criteria for final prosthetic abutment selection and allow for construction of a custom tray for the final impression.
- Allow 3 working days in laboratory for fabrication of custom tray.
- The existing temporary bridgework or denture will need to be relieved in the areas of the healing abutments and incision sites, and soft lined with a conventional liner.
- DAL inventories a complete line of prosthetic components to ensure that your clinical cases are fabricated in a convenient, timely manner.

### **Appointment #2: Master Impression**

- Place final abutments or inserts and check for proper fit and tightness.
- Place transfer components.
- Make sure the base of the abutment is flush with the surface of the implant. This relationship can be verified radiographically to ensure complete seating.

- Record final impression. A firm body impression material is recommended, i.e., Polyether (Impregum, Polygel) or a firm body, Polyvinylsiloxane.
- Once the impression has been recorded, remove the transfer coping from the implant and attach to the appropriate analog (abutment or implant analog). The coping/analog assembly is inserted into the impression in proper position.
- Send impression with coping/analog assemblies in position to DAL for fabrication of the master stone or soft tissue cast. If the impression is poured in the office, please use quality dental stone, i.e., Die Keen from Modern Materials.
- Send to DAL for fabrication of the verification index and the occlusal record bases - allow 4 working days in laboratory.

### **Appointment #3: Centric Jaw Relationship/Verification Index**

- A Verification Index is fabricated to aid in the evaluation of the master cast, and to help ensure that each implant bar or bridge framework will be cast and delivered with a passive, accurate fit.
- Waxing sleeves or gold cylinders are secured to the master cast and are luted together with a light cure resin. The index is then delivered for try-in.
- Try-in verification index without fixation screws to verify a passive fit.
- Visibly check to see if the index sits passively on the abutments; then use gentle finger pressure to determine if there is a discrepancy in fit (rocking, fulcrum or gap). If there is a discrepancy, simply cut the framework and reassemble to the corrected position.
- Once the individual sections are firmly secured to the abutments with the fixation screws, lute the reassembled framework together with light cure resin, GC Pattern Resin, or Duralay.
- Remove the assembly from the mouth and secure it to the proper analogs, using the fixation screws. Place the assembly into a stone paddy and send to the laboratory. DAL will then retro-fit the master cast to the position of the corrected verification index.

- The framework can now be waxed and cast with the assurance of an accurate master cast.
- Secure the occlusal record base with the fixation screws, and record vertical and centric jaw relationship. Contour the rim and relate any conventional landmarks; then record mould and shade selection.
- Send verification index and centric jaw relationship to DAL - allow 5 working days in laboratory for wax setup for try-in.

### **Appointment #4: Wax Setup For Try-in**

- Evaluate wax setup for proper esthetic display, vertical and centric relationship.
- Return to the laboratory for fabrication of the plaster matrix and the Spark Erosion primary bar - allow 8-10 working days in laboratory.

### **Appointment #5: Spark Erosion Primary Bar Try-in**

- Prior to constructing the secondary framework with the Swivel-Latch and Friction Pin Attachments, the primary bar is delivered for try-in.
- Try in bar without fixation screws and evaluate for a passive fit to the prosthetic abutments. If there is any rocking or a gap exists between the bar and the abutment, section the bar in the area where the discrepancy exists.
- Secure the individual sections to the abutments with the fixation screws and reassemble with GC Pattern Resin or Duralay.
- Remove the assembly from the mouth, and secure it to the proper analogs using the fixation screws.

- Place the assembly into a stone paddy and send to the laboratory for soldering. DAL will wax, cast and mill-in the secondary framework and then electro-machine the Swivel-Latch and Friction Pin Attachments. Allow 10-12 working days in laboratory.

### **Appointment #6: Spark Erosion Precision Implant Restoration Try-in**

- Evaluate the fit of the primary bar and secure with fixation screws.
- Place and evaluate the secondary framework with the Swivel-Latch Attachments engaged.
- Evaluate the waxup for proper esthetics, function and phonetics.
- Return both primary bar and secondary framework with the waxup for final processing and finishing - allow 4 working days in laboratory.

### **Appointment #7: Delivery**

- Secure the primary bar with fixation screws and seat the secondary restoration - demonstrating to the patient how to engage and disengage the Swivel-Latch Attachments.
- Evaluate esthetics, fit and occlusion.
- Instruct patient on proper home care and oral hygiene considerations.