**SPLINE O-RING ATTACHMENTS, NON-ENGAGING**

**COMPONENTS**

- O-Ring Attachment
- O-Ring Attachment Seating Tool
- Replacement O-Ring
- O-Ring Analog
- O-Ring Retainer

**Description**

Titanium abutment, available in variable cuff heights that incorporates a coronal spherical geometry which snaps into a rubber O-ring and housing retained in the denture. Unique seating tool facilitates placement of the abutments.

**Indications**

For retaining overdentures or partial dentures when resilience and facilitated oral hygiene are desired. Cuff height should be even with, equal to or higher than the surrounding soft tissue.

**Contraindications**

Not for use when implants are convergent or divergent greater than 10° or when implants are less than 6.5mm apart (center to center), or when there is less than 7mm of space coronal to the implant.

**Procedure**

There are two procedures for processing O-Ring attachments: intraoral and extraoral.

O-Ring Attachments are used for retaining overdentures and partial dentures when resilience and facilitated oral hygiene is desired. The O-Ring abutment is fabricated from titanium alloy and available in variable cuff heights that incorporates a coronal spherical geometry which snaps into a rubber O-Ring in the denture or partial denture acrylic base. The O-Ring abutments are threaded into the implant using the O-Ring abutment seating tool. The O-Rings are not intended for use if there is more than 10 degrees convergence or divergence between implants. The spacing between implants (center to center) must be greater than 6.5mm.

**O-Ring Attachment, Non-Engaging**

**Extraoral Technique**

A. With 0.050 hex wrench remove the temporary gingival cuff, in a counter-clock wise motion.

B. Use a probe to measure the tissue depth to decide which cuff height to select.

C. Use the O-Ring abutment tool to thread the abutments onto the implant. (final tightening if desired) (Fig. 32). Once the
O-Ring’s are in place, you may record your impression directly over the O-Ring abutments (Fig. 33).

D. Before sending the final impression to the lab, place the O-Ring analogs directly into the impression (Fig. 34).

E. The O-Ring abutments may remain on the implant while the denture is being modified or a new denture is being fabricated, or you may replace O-Ring attachments with the temporary gingival cuffs.

F. The dental laboratory pours a stone cast using the O-Ring analogs.

G. The lab will incorporate the O-Ring retainers that house the rubber o-rings into the denture base that snaps onto the O-Ring attachments (Fig. 35).