

SURGICAL AND RESTORATIVE USAGE GUIDE
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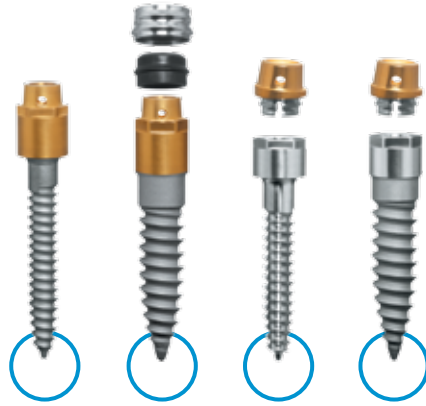


ERA Mini™
Dental
Implant
System



zimmer | dental

APPROACH DENTURES FROM A UNIQUE ANGLE



The *ERA Mini* Dental Implant System combines the *ERA*® Attachment with a small-diameter implant, allowing you to immediately stabilize an overdenture and protect an osseous graft site. Designed for both transitional and long-term use, the implant uniquely offers the ability to correct misangulation, as well as true vertical resiliency, with a micro-prosthetic head. These capabilities, along with the simplicity of chair-side application and affordability, enable you to approach denture stabilization from a truly unique angle.

INDICATIONS FOR USE

The 2.2mm ERA Mini Dental Implant System is intended for long-term as well as temporary surgical implantation in the bone of the patient's upper or lower arch to provide immediate load or delayed load of prosthetic systems, such as artificial teeth, in order to restore the patient's chewing function. Immediate loading of the ERA Mini Dental Implant should only occur when the position of the implants provides adequate bone quantity and quality to allow proper immediate mechanical stabilization of the self-tapping screw into the bone and where occlusal and lateral forces can be limited with appropriate occlusal design and a soft diet.

The 3.25mm ERA Mini Dental Implant System is intended for permanent as well as temporary surgical implantation in the bone of the patient's upper or lower arch to provide immediate load or delayed load of prosthetic systems, such as artificial teeth, in order to restore the patient's chewing function. Immediate loading of the ERA Mini Dental Implant should only occur when the position of the implants provides adequate bone quantity and quality to allow proper immediate mechanical stabilization of the self-tapping screw into the bone and where occlusal and lateral forces can be limited with appropriate occlusal design and a soft diet.

The ERA Attachment System is a resilient retention device for dental prostheses, designed to be used with removable dentures.

Please refer to the Instructions for Use for further information and detailed instructions.



ERA MINI DENTAL IMPLANT SURGICAL SYSTEM

This surgical system includes tools and instruments necessary to place ERA Mini Dental Implants in an uncomplicated chair-side sequence.

SYSTEM INCLUDES:
ROUND MARKING BUR; 1.6MM DRILL; 1 EACH OF 10MM, 13MM AND 15MM 2.2MM COUNTERSINK DRILLS; 1 EACH OF 10MM, 13MM AND 15MM 3.25MM COUNTERSINK DRILLS; INSERTION TOOL; 2.2MM COUNTERSINK; 2.2MM BONE TAP; 3.25MM BONE TAP; ERA DRIVER; ERA SOCKET; 2 SETS OF ANGLE GAUGES (0°, 5°, 11° AND 17°); RATCHET WRENCH, SHORT
#905119Z

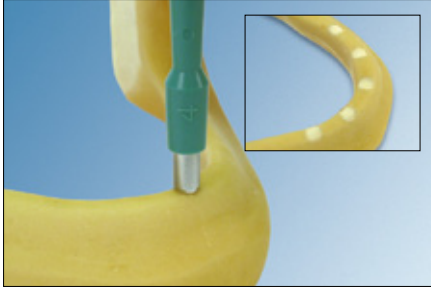


ERA MASTER PROSTHETIC KIT

This kit includes components necessary to complete the restorative procedures for ERA Mini Dental Implants.

KIT INCLUDES:
2 EACH OF THE MICRO ERA FEMALES IN 0°, 5°, 11° AND 17°;
4 ALIGNMENT HANDLES; CORE CUTTER BUR; SEATING TOOL; 4 PROCESSING JIGS; 8 BLACK FABRICATION MALES; 8 WHITE MALES; 8 ORANGE MALES; 8 METAL JACKETS WITH FABRICATION MALES
#811914Z

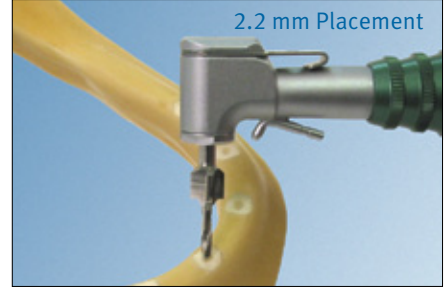
2.2mm Placement



1 If placing *ERA Mini* Dental Implants for transitional use between traditional implants, or if bone grafting is being performed, use normal tissue flap procedures. If placing *ERA Mini* Dental Implants for long-term stabilization, use a minimal flap or tissue punch, while preserving as much keratinized tissue as possible. ●



2 Whether placing 2.2mm or 3.25mm *ERA Mini* Dental Implants, use the Round Marking Bur to make a shallow pilot hole in the bone. ●●



3 When placing 2.2mm *ERA Mini* Implants, choose the appropriate length Countersink Drill, available in 10mm, 13mm and 15mm. ●●●



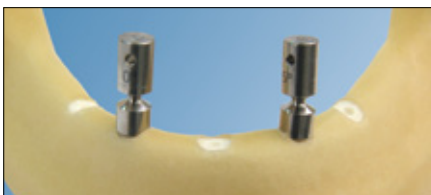
4 The selected Countersink Drill prepares a pilot hole in the bone that corresponds to the length of the untapered portion of the implant. It also creates a flat area on the surface of the bone allowing the underside of the Micro *ERA* Female to seat completely on the bone. ●●●●



5 When the bone is dense, use the 1.6mm Drill to extend the depth of the preparation to accommodate the complete length of the implant. The 2.2mm Bone Tap may also be used to create threads in dense bone. ●●●●●



6 Place a 0° Angle Gauge in the first hole. Use this as a guide to prepare the next site. ●●●●●●



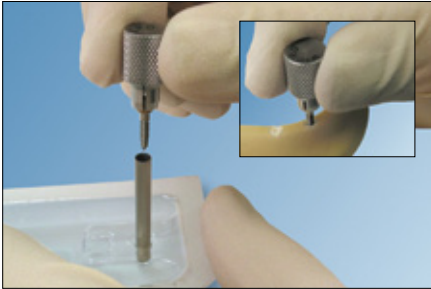
7 Once the 1.6mm pilot hole is drilled into the bone, the *ERA* Angle Gauges may be used to determine whether one-piece 0° *ERA Mini* Dental Implants will line up within 7° of the desired path of insertion of the denture, or if two-piece angulation-correction *ERA Mini* Dental Implants with 0°, 5°, 11° or 17° Micro *ERA* Implant Females are required. Insert Angle Gauges into each hole and turn them by hand until each one lines up with the desired path of insertion for the denture. ●●●●●●



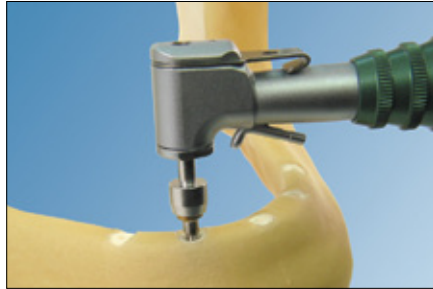
8 The outer blister is removed from the box by the non-sterile assistant who then peels back the cover on the outer blister and drops the inner blister onto the sterile field. ●●●●●●●●



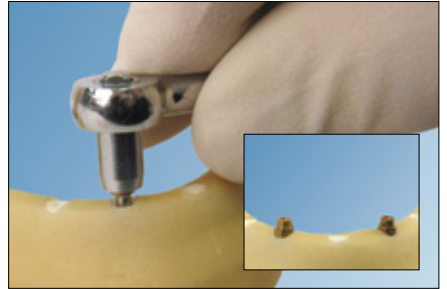
9 The sterile assistant peels back the cover on the inner blister and brings the titanium tube, which is holding the implant, to an upright position. The titanium tube is inserted into the round depression in the inner blister. ●●●●●●●●



10 The Insertion Tool is used to carry the implant to the site and to begin turning the implant into the bone. Align one of the laser etched marks on the tool with one corner of the hex on the implant and press the tool into place. Remove the implant from the tube and screw the implant into the bone. ●●●●●●●●●●

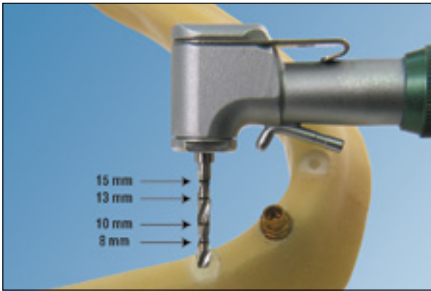


11 If the implant cannot be completely hand driven with the Insertion Tool, remove it by tipping it to one side. Insert the ERA Driver into a surgical handpiece. Set the torque control to a maximum of 60 Ncm and 15 rpm. Using water spray, drive the implant into the bone. ●●●●●●●●●●



12 The ERA Socket Insert may also be used to finish seating the implant. Insert the ERA Socket into the short ratchet wrench or use a torque wrench set at a maximum of 60 Ncm. Slowly ratchet the implant into the bone until completely seated. ●●●●●●●●●●

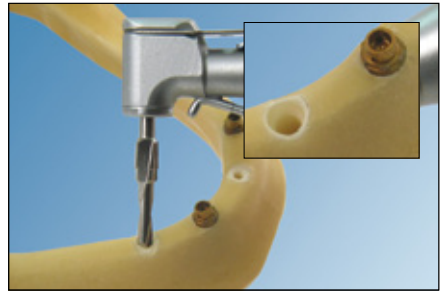
3.25mm Placement



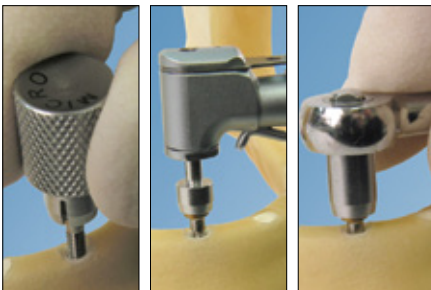
13 When placing 3.25mm ERA Mini Dental Implants, use the 1.6mm Drill after the Round Marking Bur. Drill the hole to the full length of the implant using the laser depth markings on the drill. ●●●●●●●●●●



14 Use the ERA Angle Gauges to determine whether one-piece 0° ERA Mini Dental Implants will line up within 7° of the desired path of insertion of the denture or if two-piece angulation correction ERA Mini Dental Implants with 0°, 5°, 11° or 17° Micro ERA Females are required. Insert Angle Gauges into each hole and turn them by hand until each one lines up with the desired path of insertion for the denture (shown here by the alignment handle in the 2.2mm implant). ●●●●●●●●●●

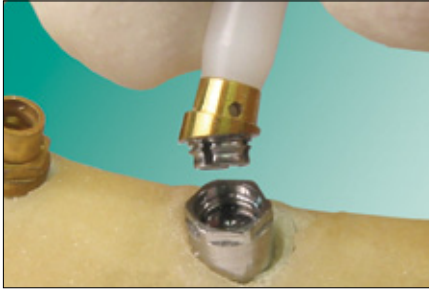


15 Expand the diameter of each osteotomy using the appropriate length 3.25mm Countersink/Drill. These combination drills not only prepare the bone to the proper diameter, they also create the proper bone contour so the Micro ERA Female will seat completely on the bone. ●●●●●●●●●●

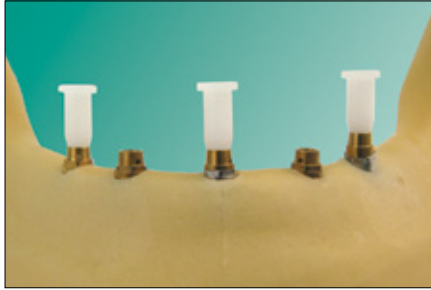


16 Use the same steps for removing the implants from the package and for inserting the implants into the bone as discussed in the 2.2mm ERA Mini Dental Implant procedure (steps 8 – 12). ●●●●●●●●●●

RESTORATIVE PROCEDURE



1 When using an angulation correction *ERA Mini* Dental Implant, first screw the implant into the bone. Then, snap a white *ERA Alignment Handle* into the appropriate angled female component. ●



2 Snap a white *Alignment Handle* into the other female components. Rotate each of the angled *Micro ERA Females* until they all line up with the desired path of insertion of the denture. ●●



3 Using an indelible pen, mark a vertical line across the juncture between the implant base and the *Micro ERA Female*, wherever space allows. Remove the *ERA Females* from the bases. ●●●



4 Add a small quantity of *ERA Lock Cement* into the socket of the base. Also, apply a small amount of cement to the button on the bottom of the *ERA Female*. Too much cement may make it difficult to completely snap the *ERA Female* into the base. ●●●●



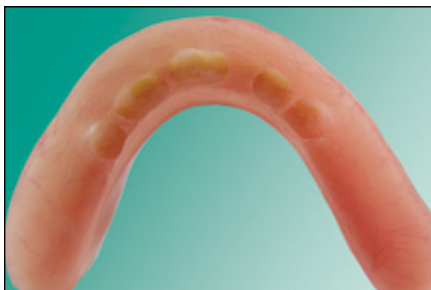
5 Snap the *Micro ERA Female* into the base, aligning the two halves of the mark. Clean up any excess cement. ●●●●●



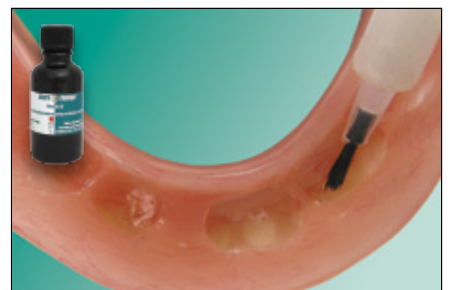
6 Snap a *Black Fabrication Male* or a *Metal Jacket with Black Male* into each implant. The two implants shown with the *Metal Jackets* are the 2.2mm *ERA Mini* Dental Implants. In this case, they will be loaded immediately. The three *Black Males* will act only as a cover for the 3.25mm *ERA Mini* Dental Implant. The loading of these implants will be delayed approximately eight weeks. ●●●●●●



7 Small pieces of rubber dam are very effective at blocking out any exposed surface. In addition, the rubber dam covers the incision, thereby protecting the surgical site and helping to prevent acrylic or composite from locking into any undercuts. ●●●●●●●●



8 Using a *Round Bur*, prepare a recess in the denture over each *Black Male* and *Metal Jacket*. The denture should not touch the males or it will not be seated properly on the tissue. A lingual window may be formed into each recess. ●●●●●●●●



9 Use *SternVantage® Varnish* to prime the two recesses over the *Metal Jackets* and light cure. ●●●●●●●●●●



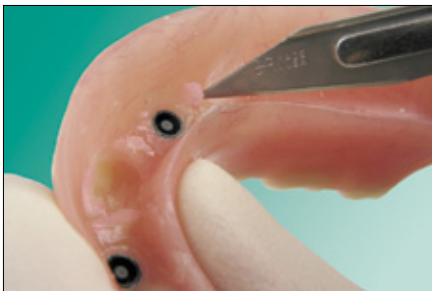
10 Add acrylic or composite over the top and sides of the Metal Jackets. Sterngold's *ERA PickUp™* Material is recommended. ●●●●●●●●●●



11 Place additional resin in the recesses of the overdenture and seat the prosthesis into the mouth. ●●●●●●●●●●



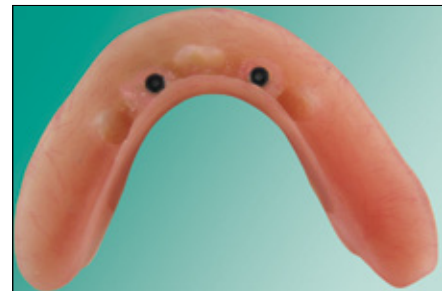
12 Passive seating is most important. If the tissue is displaced, it will be very difficult to seat the attachments accurately. ●●●●●●●●●●



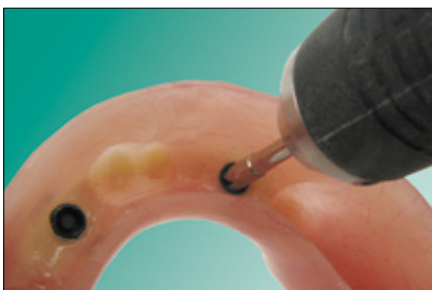
13 Remove the denture. Fill any defects with resin and finish the prosthesis. Excess *ERA PickUp* Material may be removed from unvarnished areas easily. ●●●●●●●●●●



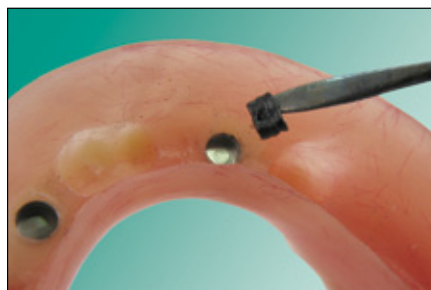
14 A soft reline material, like Sterngold's *QuickLine™*, is recommended to cushion the tissue and implants during the healing process. This long-term, self-curing silicone material is dispensed easily from an automixing gun and may be applied directly to the denture. ●●●●●●●●●●



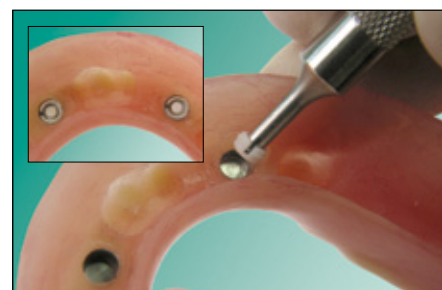
15 Replace the Black Fabrication Males with the White Final Males. This will activate the 0.4mm vertical resiliency feature of the *ERA* attachment. ●●●●●●●●●●



16 Use the Micro *ERA* Core Cutting Bur in a straight handpiece at medium speed to cut out the center button of the Black Male. Use a short cutting cycle and an in-and-out motion. ●●●●●●●●●●



17 After the core has been removed, collapse the remaining ring into the open space using any sturdy dental instrument and lift it out. The *ERA* Attachment Extraction Tool is recommended. ●●●●●●●●●●



18 Place the white Micro *ERA* Overdenture Males on the Micro *ERA* Seating Tool and snap them into the Metal Jackets. ●●●●●●●●●●

COMPLEMENTARY PRODUCTS



ERA PickUp Kit with Varnish
A tissue-colored, self-curing attachment processing material.
#220237



QuickLine Material
A long-term soft relining material that can be directly applied from its auto-mixing cartridge.
#220180



SternVantage Varnish LC
An unfilled light cure resin.
#221001



ERA Lock Cement
An auto-curing, filled, composite resin cement.
#811900



SternVantage Quick Bite Vanilla
A vanilla-scented, automix, thixotropic bite registration material.
#220131



ERA Lock Dispensing Gun
A tool used to dispense ERA Lock Cement.
#811903

To learn more about the **ERA Mini Dental Implant System**, please visit us online at www.zimmerdental.com or to speak to a sales representative, call 1 (800) 854 7019.

For more information about our Products, Restorative Materials and Educational Opportunities, contact us:

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