



**“How something small,  
can make such a big difference!!”**



**“Your best choice in overdenture”**

New York  
**KERATOR**

**Overdenture Attachment Systems**



[www.KERATOR.com](http://www.KERATOR.com)

Kerator has the world’s most powerful competitiveness in overdenture attachment system.

**Why?**

KERATOR was chosen over the other overdenture attachment, for the comfortable retention power of caps and excellent mobility in the denture metal housing, in the world market.

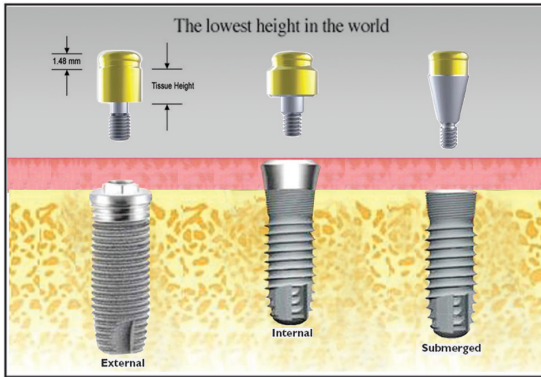


E-mail : [overdenture@kerator.com](mailto:overdenture@kerator.com)  
Mobile : +82-10-8942-0373

**KERATOR ATTACHMENT**

**For Implant**

**KERATOR Implant Abutments are usable to fit all Implant system**

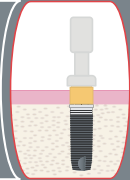


Nobel Biocare(Branemark, Sterioss, Replace, Replace Select), 3i, Astra, ITI, Ankylos, Biohorizon, Biolok, Bicon, Camlog, Endopore, Frialit-2&Xive, Lifecore, Zimmer(Calcitek, Paragon, Swissplus), Uniti, Pitt-Easy, Osstem, Dentium, Dio, Dentis, Megagen, Cowell Medi, Warantec...

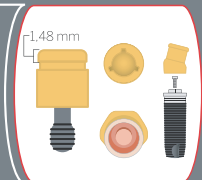
**The others can be made within 10 days!!**

**Advantage**

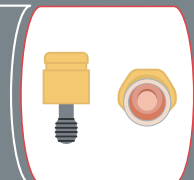
**1.** Plastic carrier for the abutment makes it easier, safer to handle and check alignment in the mouse.



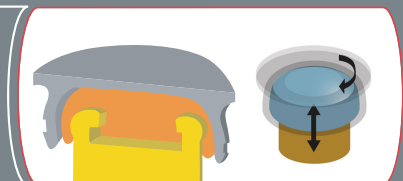
**2.** The lowest vertical height in the world.



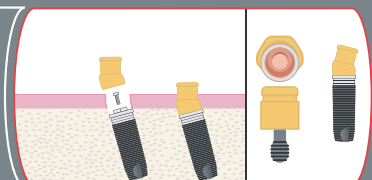
**3.** Dual Retention(Outside and inside retention ensures the longest lasting performance)  
Easy Insertion(Accurate alignment using self locating design)



**4.** Resilient KERATOR attachment with the superior mobility.








**5.** 15° Angled abutment can be used with non-parallel implants. Combined with the extended range male, it can correct more than 40degree.(The others + ?!!!!)



**6.** Cross section of KERATOR metal housing shows the retentive property; Increasing coherence with denture resin.

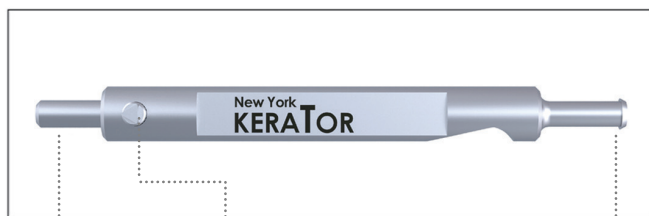


**KERATOR VS A&B competitors**

	Competitor A	Competitor B
<p>Using our own technology Patented KERATOR Angled Abutment in foreign countries, You can apply it to the wrong path of implants. It maximizes the satisfaction of patients and dentists.</p> 	<p>Patients can bite a denture into place without damages to attachment components. (self-aligning)</p>	<p>Patients must carefully insert their denture by hands only to avoid damage to <b>B</b> male. (not self-aligning)</p>
<p>Using KERATOR Carrier(or KERATOR Tip), you can thread KERATOR abutment into the implant easily and safely. Also you can check the alignment of angle with KERATOR Carrier, Using Magic Tool, you can tighten abutment and insert male cap into the metal housing.</p> 	<p>A patented combination of inside and outside retention ensures long lasting performance. (dual-retention)</p>	<p>The outside skirt of <b>B</b> has no retentive function. (only inside retention)</p>
<p>The shape of KERATOR Metal Housing is Dual-Undercut design. It increases coherence with denture resin.</p> 	<p>Durability cycle test  <b>A</b> root : 110,000 insertions  <b>A</b> implant : 60,000 insertions</p>	<p>Durability cycle test  <b>B</b> root : 3,500 insertions  <b>B</b> implant : 3,000 insertions</p>
<p>Retention power of KERATOR male cap is down up to 20% and red cap(angle) is included in the male package. 20 colors of cap determine retention power and it minimizes Denture Repair even if the change as bone loss is continued. KERATOR abutment for the implant of each company is threaded exactly, not compatible. KERATOR has many advantages and it's cost is lower than A's cost(about 40% off). One distributor in one country strategy. The lowest height in the world : 1.48mm</p>  <p>Zero "0" Retention →</p>	<p>Low height  <b>A</b> root : 2.5mm (female 1.5mm+male denture cap 1.0mm)  <b>A</b> on hexed implant : 3.17mm  <b>A</b> is 2mm wider.  <b>A</b> hinges but has no vertical resiliency.</p>	<p>High profile  <b>B</b> root : 3.25mm (with metal cap)  <b>B</b> on hexed implant : 4.85mm  <b>B</b> is 2mm narrower.  <b>B</b> hinges and offers true 0.4mm vertical resiliency.</p>

**KERATOR Instruments & Components**

**KERATOR Magic Tool & Tip, Housing**



Insertion part    Self Torque part    Removal part

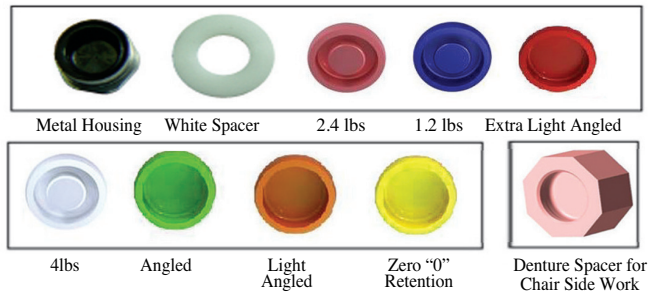


Hand Torque Housing    Torque Tip

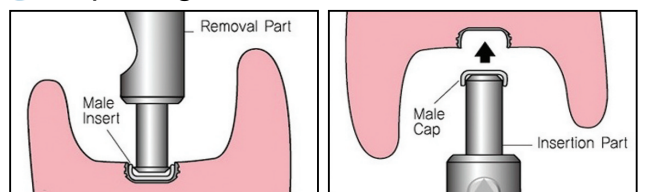


KERATOR Coping    KERATOR Analog

**KERATOR Male Cap Set**



**Replacing Male Inserts**





**KERATOR Attachments**

**For Root**

There are two types for root retained overdenture.

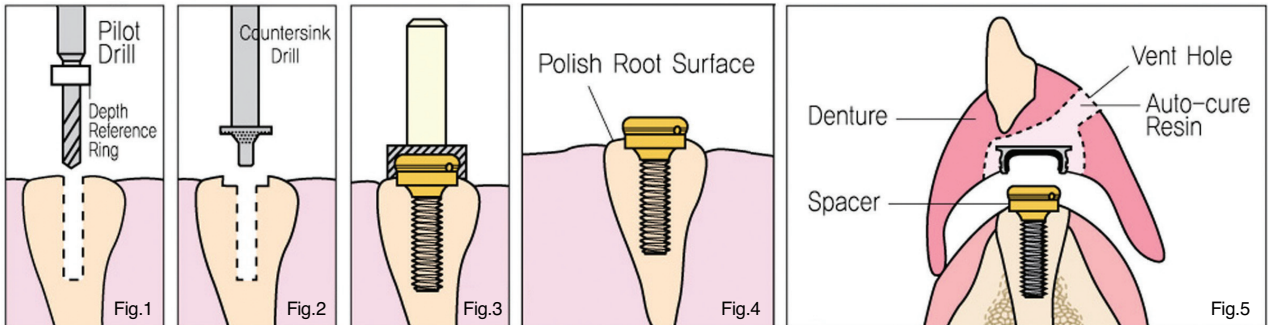
The Post type is used in direct technique and there are straight, 10 degree, 20 degree angled females. The female part is made of Titanium alloy (TI6AL4V) and is coated with a Titanium Nitride coating.

And the Cast type has a pattern that is incorporated into wax-pattern for post coping.

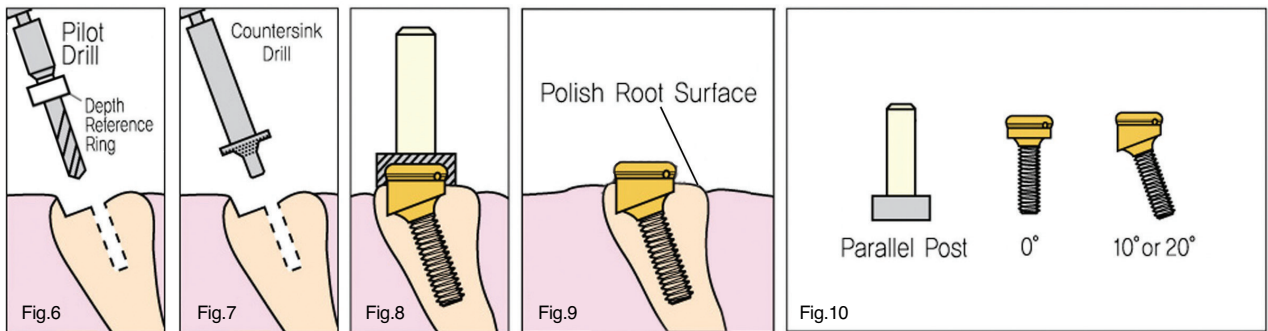
The Root Kit includes 4 attachments (Male&Female), 3 kinds of burs (initial drill, main pilot drill, countersink diamond bur). The Diamond bur is used for the shoulder on the top of the root accept the KERATOR Female.



**A. Direct Technique**

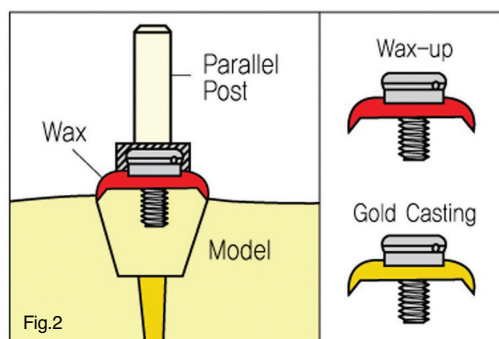
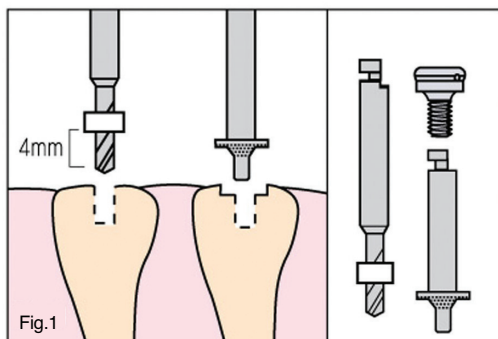


NON-DIVERGENT ROOT



DIVERGENT ROOT

**B. Cast-to Technique**



Clinical Pictures



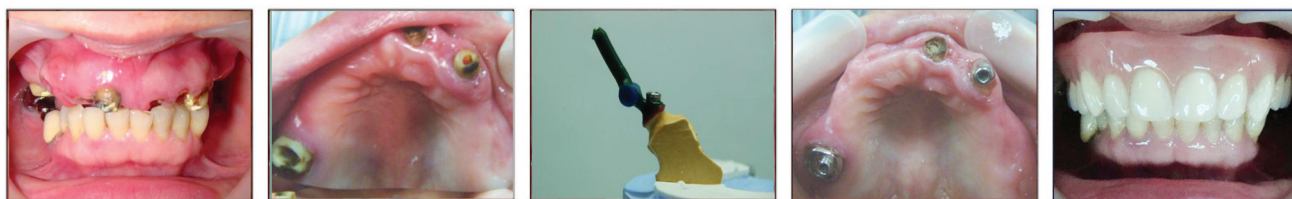
Case A (Mandible)



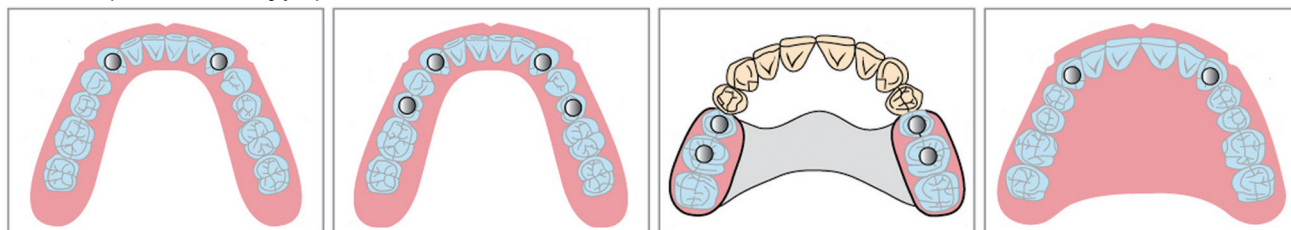
Case B (Maxillary)



Case C (Root Post Type)



Case D (Root Cast Type)



Implant Mandible Overdenture A

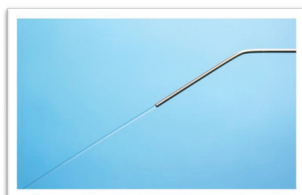
Implant Mandible Overdenture B

Implant Partial Denture

Implant Maxilla Overdenture

**KERATOR** Irrigation Delivery System

KERATOR Irrigation System is composed of Omnia Pressure cuff with durability and excellent KERATOR Syringe. All the parts of KERATOR Irrigation System except the Pressure cuff are autoclavable.



- ✓ The Thumbwheel adjusts the water-pressure.
- ✓ Excellent quality & Reasonable price.
- ✓ Reasonable Price for Extra-Tip for Replacement.
- ✓ Both of 500ml & 1000ml Saline.

Irrigation and cooling during surgical procedures by high water-pressure. Sufficient irrigation accelerates healing and reduces scar tissue formation and minimizes postoperative pain.

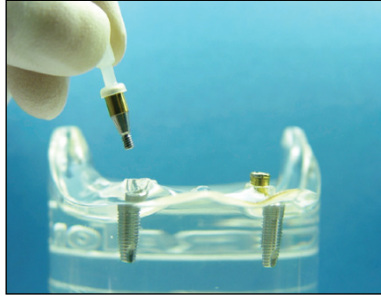




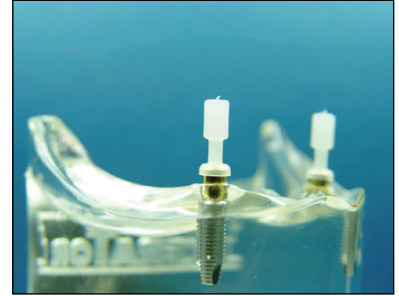
## Fabrication Instructions



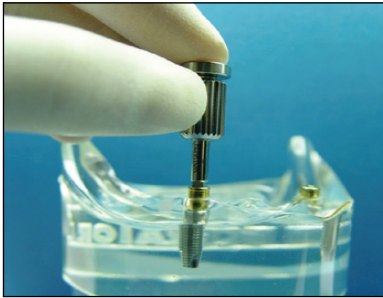
1. Remove healing abutment using hex driver. (0.05inch, 1.27mm)



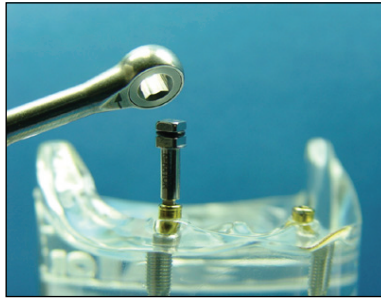
2. Engage abutment into the implant using carrier.



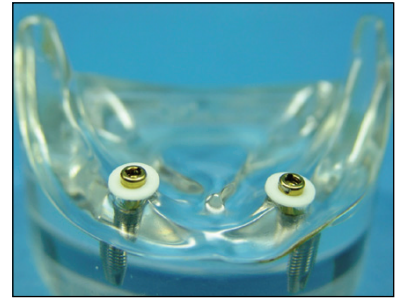
3. Engage straight abutment. (\*check the implant alignment)



4. Tighten the abutment by Hand torque housing & tip



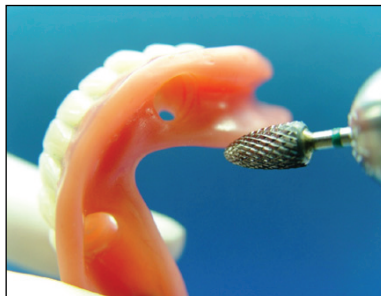
5. Use the Torque Wrench 30Ncm



6. Place a White Block-out Spacer over the head of each KERATOR abutment.



7. Insert Metal Housing with black cap.



8. Prepare a recess in the denture. Make a vent hole on the lingual aspect to express resin.



9. Mix a resin and place a small amount in the recess of the denture.



10. Insert the denture into position.



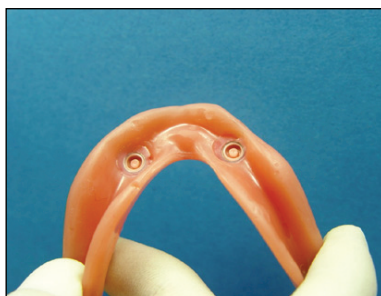
11. After the resin has cured, remove the denture and discard the white spacer.



12. Remove the Black cap from the Metal Housing using KERATOR Magic Tool.



13. Push a final cap using KERATOR Magic Tool.



14. Finished figure.



15. Have the patient insert.