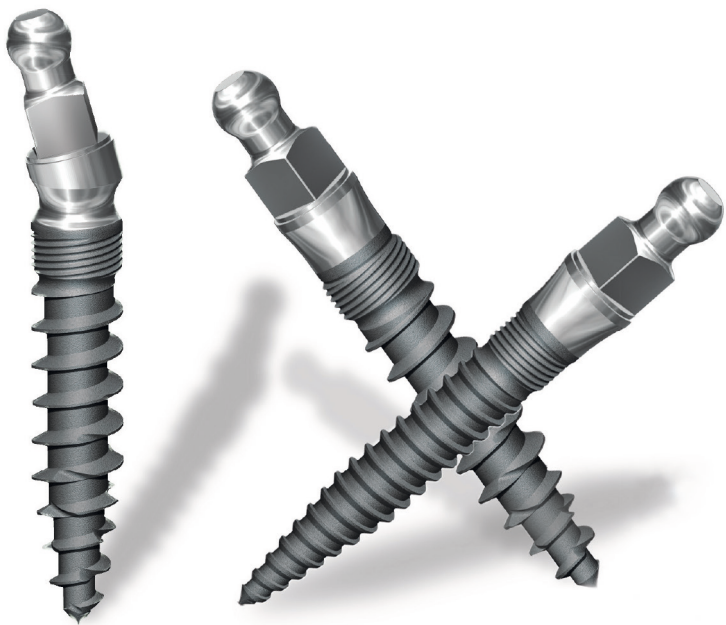


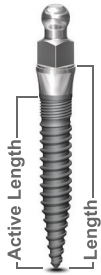
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**MDL**<sup>®</sup>  
SMALL DIAMETER IMPLANTS

## MDL™ IMPLANTS

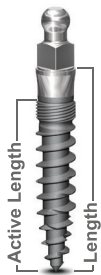
### 2.0mm® MDL MINI DRIVE LOCK



MDL2013

Length*	Product Description	Ref. No.
10mm	MDL 2.0mm Diameter, OSSEAN® Surface	MDL2010
11.5mm	MDL 2.0mm Diameter, OSSEAN® Surface	MDL2011
13mm	MDL 2.0mm Diameter, OSSEAN® Surface	MDL2013
15mm	MDL 2.0mm Diameter, OSSEAN® Surface	MDL2015
18mm	MDL 2.0mm Diameter, OSSEAN® Surface	MDL2018

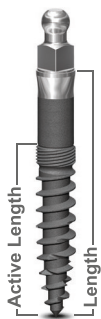
### 2.5mm® BLOSSOM® MDL MINI DRIVE-LOCK



MDL2513



Length*	Product Description	Ref. No.
10mm	MDL 2.5mm Diameter, BLOSSOM® with OSSEAN® Surface	MDL2510
11.5mm	MDL 2.5mm Diameter, BLOSSOM® with OSSEAN® Surface	MDL2511
13mm	MDL 2.5mm Diameter, BLOSSOM® with OSSEAN® Surface	MDL2513
15mm	MDL 2.5mm Diameter, BLOSSOM® with OSSEAN® Surface	MDL2515
18mm	MDL 2.5mm Diameter, BLOSSOM® with OSSEAN® Surface	MDL2518



MDL2513L



Length*	Product Description	Ref. No.
10mm	MDL 2.5mm Diameter, Long Collar, BLOSSOM® with OSSEAN® Surface	MDL2510L
11.5mm	MDL 2.5mm Diameter, Long Collar, BLOSSOM® with OSSEAN® Surface	MDL2511L
13mm	MDL 2.5mm Diameter, Long Collar, BLOSSOM® with OSSEAN® Surface	MDL2513L
15mm	MDL 2.5mm Diameter, Long Collar, BLOSSOM® with OSSEAN® Surface	MDL2515L
18mm	MDL 2.5mm Diameter, Long Collar, BLOSSOM® with OSSEAN® Surface	MDL2518L

### 2.5mm® BLOSSOM® MDL 15° MINI DRIVE-LOCK



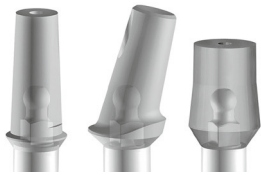
MDL2513A



Length*	Product Description	Ref. No.
13mm	MDL 15°, 2.5mm Diameter	MDL2513A
15mm	MDL 15°, 2.5mm Diameter	MDL2515A
18mm	MDL 15°, 2.5mm Diameter	MDL2518A

\*The actual thread is 2mm less than the catalog description, regardless of the height of the collar (2mm or 4mm)

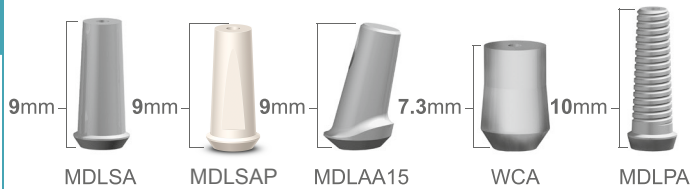
## CEMENT-OVER TITANIUM ABUTMENT SYSTEM



Cement-Over™ Abutments, available in Straight, 15° Angled, Wide, Plastic Castable, and Orthodontic configurations, provide the clinician with an unsurpassed range of prosthetic options. Cement-Over™ Abutments\* can be prepared extra-orally and simply fit over the O-Ball Assembly. Once cemented in place with resin cement, abutment and implant form one unit; resistant and strong as a one-piece. An Analog and Impression Coping complement the system.

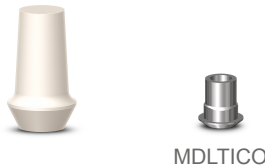
## PROSTHETIC SYSTEMS

### MDL CEMENT-OVER™ ABUTMENTS



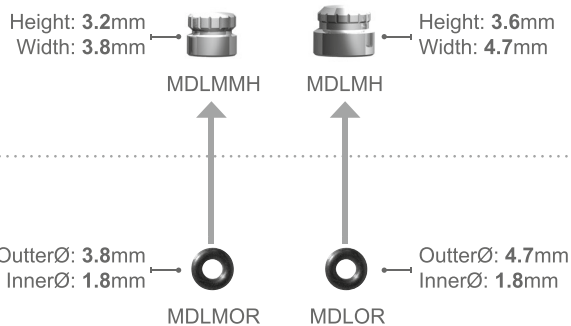
### CEMENT-OVER™ ABUTMENTS

Product Description	Ref. No.
Cements over O-Ball Assembly for fixed bridges, Straight	<b>MDLSA</b>
Cements over O-Ball Assembly for fixed bridges, Straight Peek	<b>MDLSAP</b>
Cements over O-Ball Assembly for fixed bridges, Angulated 15°	<b>MDLAA15</b>
Cements over O-Ball Assembly for fixed bridges, Wide	<b>WCA</b>
Plastic Castable Abutment for fixed bridges	<b>MDLPA</b>



### Abutment for CAD/CAM

Product Description	Ref. No.
Provides the optimum structural support to enhance CAD/CAM ceramic restorations (Also includes a PEEK Temporary MDL Abutment) Titanium Core for MDL® Platform	<b>MDLTICO</b>



### Metal Housing with O-Ring

Product Description	Ref. No.
O-Ring encapsulated in MICRO Metal Housing	<b>MDLMMH</b>
O-Ring encapsulated in LARGE Metal Housing	<b>MDLMH</b>

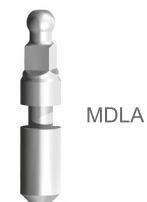
### O-Ring Replacements

Product Description	Ref. No.
For MICRO Housing (Quantity of 10)	<b>MDLMOR</b>
For Large Housing (Quantity of 10)	<b>MDLOR</b>



### Impression Coping

Product Description	Ref. No.
Pick up Impression Coping	<b>MDLT</b>



### Laboratory Analog

Product Description	Ref. No.
Precision + Accuracy = Optimal Scanning Results	<b>MDLA</b>



### MDL Scan Body Peek

Product Description	Ref. No.
Replicates the MDL® Implants and Abutment	<b>MDLSB</b>

## DRILLS / DRIVE-LOCK / TORQUE-LOCK

### MINI DRILLS



#### MDL Pilot Twist Drills

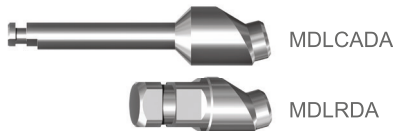
Product Description	Ref. No.
Single Patient 1.2mm diameter	MDLSPD
Single Patient 1.2mm diameter 13mm Long	MDLSPDL
Pilot Twist Drill 1,5 x 15 mm	D1515

### MINI DRIVE-LOCK



#### Mini Drive-Lock Ratchet and Contra-Angle

Product Description	Ref. No.
Mini Drive-Lock Contra Angle Driver	MDLCAD
Mini Drive-Lock Ratched Driver	MDLRD
Mini Drive-Lock Ratchet Driver, Long	MDLRDL



#### Mini Drive-Lock 15° Ratchet and Contra-Angle

Product Description	Ref. No.
15° Mini Drive-Lock Contra Angle Driver	MDLCADA
15° Mini Drive-Lock Ratchet Driver	MDLRDA



#### Mini Drive-Lock Manual Wrench

Product Description	Ref. No.
Connects to the Mini Drive-Lock Ratchet Driver	MDLMW



#### Surgical Ratchet Wrench

Product Description	Ref. No.
With standard 4x4mm connection, autoclavable	SRA



#### Tissue Punch

Product Description	Ref. No.
Latch Tissue Punch, 3mm Diameter	RPCA3

### TORQUE-LOCK



#### Torque-Lock®

Product Description	Ref. No.
Torque-Lock® 2-High Torque Indicator 35-70 Ncm	TL2H
Torque-Lock® 2-Low Torque Indicator 10-35 Ncm	TL2L
Adapter Driver Torque-Lock® 2	TLAD

### HEALING ABUTMENT

#### MDL HEALING ABUTMENT



#### MDL O-Ball Healing Abutment

Product Description	Ref. No.
Plastic Healing Cap for Press Fit on O-Ball Assembly	MLHC

# MDL<sup>®</sup> with ossean<sup>®</sup> SURFACE

SMALL DIAMETER IMPLANTS

**INTRA-LOCK<sup>®</sup>**  
INTERNATIONAL

**Mini Drive-Lock (MDL<sup>®</sup>)** is Intra-Lock's one-piece small diameter dental implant. The system is ideal for long-term denture stabilization or fixed prosthetics. **MDL<sup>®</sup>** is a true 'convertible' implant with one-piece solid strength and two-piece versatility.

Patented\* **Cement-Over<sup>™</sup>** Abutments simply fit over the O-Ball Assembly and convert the implant from removable to fixed or orthodontic treatment options. The system's unique **Drive-Lock<sup>™</sup>** instruments reduce delivery and placement to one fluid motion. Once in place, Intra-Lock's extremely hydrophilic, bio-active **OSSEAN<sup>®</sup>** Surface promotes rapid early healing and increased biomechanical fixation\*.

**OSSEAN<sup>®</sup>** Surface is characterized by its fractal\* topography that extends beyond the nanoscale level. **OSSEAN<sup>®</sup>** has an extremely hydrophilic surface and is impregnated with Calcium Phosphate molecules that are incorporated into the surface structure at the molecular level. Due to this molecular impregnation, binding forces make the Calcium Phosphate exceptionally stable while preserving its bioactive properties.

**BLOSSOM<sup>™</sup> Self-Tapping Technology**, a patent pending cutting design, is incorporated in 2.5mm diameter MDL Implants. It enables the implant to cut through bone with the efficiency of a knife; minimizing bone compression and micro fracture. **BLOSSOM<sup>™</sup>** allows for a lowered insertion torque while providing decreased micro movement\*.

MDL Small Diameter Implants are used for long term reconstructions, to enhance denture stability and as individual and multiple-unit fixed prosthetics.

## Applications & Characteristics

- Full Denture Stabilization\*
- Partial Denture Stabilization\*
- Crown and Bridge Fixation\*
- Simple & Versatile components
- Immediate Loading Procedure\*
- Minimally-invasive surgical protocol\*
- Long-Term Applications\*
- Excellent for denture stabilization\*
- High Patient Satisfaction
- Decreased Chair Time side



\*LITERATURE AVAILABLE AT [WWW.INTRA-LOCK.COM](http://WWW.INTRA-LOCK.COM).

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## Mini Drive-Lock Surgical Box



### Product Description

Plastic multi-use box accommodates all MDL®, MILO® & OP® surgical instruments for Implant delivery and placement. (Photo illustrates instrumentation for all three systems. These instruments are not included with the box.)

Metal multi-use box (photo not shown) accommodates all MDL®, MILO® & OP® surgical instruments for Implant delivery and placement. (Instruments are not included). The metal box features a laser etched Stainless Steel insert.

Ref. No.

MDLOPSK2

MDLOPSK

### Mini Drive-Lock® (MDL) Selection

Always use the longest MDL possible for maximum retention and stability of the implant. In the mandibular bone, the implant should be 75% of the total bone height available. In the maxillary, the implant should be 90% to 100% of the total bone height available. Due to the differences in bone quality, the 2.0 mm Diameter in general is more suitable for the lower jaw, whereas the 2.5 mm Diameter is more suitable for the upper jaw.

### Mini Drive-Lock® (MDL) Placement

- Establish the correct number, angulations and placement positions for the MDL® Implant(s). The minimum distance between implants should be 3mm.
- Administer local anesthetic. Crestal and buccal anesthesia are adequate. The anesthetic solution should be sufficient to anesthetize all the periosteal surfaces that will be encountered.
- Mark the site(s) of initial penetration. Bleeding points or an indelible marker can be used.
- Penetration of Gingiva and Cortical Bone. The concept is to create a "pilot hole" into which the Mini-Implant can be inserted. Mini Drive-Lock® Implant protocol calls for the use of a Pilot Twist Drill (MDLSPD – MDLSPDL) (1.2mm diameter) when penetrating the gingiva and cortical plate. DRILLING TECHNIQUE consists of a light, repeated, intermittent, vertical introduction of the Pilot Drill through the gingival tissue at the placement site. The procedure is performed at approximately 1200 rpm, with copious external irrigation with sterile saline, in order not to create excessive heat. Once the thickness of the gingival tissue and the periosteum has been breached, the drill will engage the cortical bone. Tactile sensation will indicate when the cortical plate is breached. This completes the drilling procedure. This technique calls for a pilot hole only. Careful care should be taken not to drill to the full length of the implant. The Mini Drive-Lock® Implant must self-tap itself into the bone.
- Removal of implants from Sterile Packaging: The sterile Mini Drive-Lock® Implants are suspended on a titanium ring, in order to enable direct transfer to the surgical site. The Mini Drive-Lock® Implant, Contra-angle Driver, (MDLCAD), snaps over the o-ball and engages the square driving feature. It permits the implant to be taken out of the vial, carried to the site and placed into the pilot hole. Once in position, gently start the slow speed contra-angle. Recommended speed is 15 R.P.M. The Drive- Lock® Driver and the implant will now begin to rotate and permit the self-tapping action of the Mini Drive-Lock® Implant to take place. The use of an electric motor with a torque limiting feature is recommended. The torque limit should be set to 35 Ncm.
- Threading the Mini Drive-Lock® Implant the Initial Phase: The Mini Drive-Lock® implant is self-tapping and once started, cuts its way through, threading and expanding the bone at the same time. Since no osteotomy site has been created, the Mini Drive-Lock® Implant threads its way through untouched bone, thus expanding and taking advantage of the visco-elastic nature of the bone.
- Threading the Mini Drive-Lock® Implant Final Seating: The handpiece will stall when the torque limiting value of 35 Ncm is reached. Remove the contra-angle drive lock driver, (MDLCAD) from the head of the Mini Drive-Lock® Implant by lifting and separating it. Insert the Mini Drive Lock Ratchet Driver, (MDLRD) into the Ratchet Wrench, (SRA). Utilization of the Ratchet Wrench: The MDLRD in the SRA or Torque-Lock (TL2H) wrench is then engaged over the head of the implant and snapped into place. Using small, incremental turns, continue seating. Pause between each quarter turn in order for the elasticity of the bone to allow the introduction of the Mini Drive-Lock® Implant. Note: The correct depth of the Mini Drive-Lock® Implant is attained when the shoulder of the collar is flush with the height of the surrounding gingiva.



**MILO® Implants 3.0** are available in five lengths (10, 11.5, 13, 15 and 17 mm) and in two threads (Fine Pitch and Wide Pitch) that are engineered to address the clinical quality and quantity of bone. The 3.0mm Wide Pitch version is also available with a 4mm gingival collar.

**MILO® Implants 3.75** are available in five lengths (10, 11.5, 13, 15 and 17 mm)

**MDL & MILO Implants** Surgical and prosthetic instructions for use, Live surgery video's, Literature, Clinical Study's & Intra-Lock Bioactive Osseon Surface Literature,... all available on [WWW.ALLMEDICS.EU](http://WWW.ALLMEDICS.EU).

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