



Restorative Procedure

● O-BALL OVERDENTURE



OCO BIOMEDICAL

[O-BALL]

4-ON-THE-FLOOR™
IMPLANT PLACEMENT and OVERDENTURE SERVICES

DUAL STABILIZATION® LINE

PRE-INSERTION PREPARATION

PRE-INSERTION PREPARATION

The Implants are placed in the selected areas of the maxilla or mandible, with care being taken to position them as near parallel as possible. The IOT/O-Ball attachment system will allow for up to ten degrees off parallel for proper seating of prosthesis with female attachments in place later. The previously constructed denture or partial is then lined with a soft tissue conditioning liner and placed. This will aid in patient comfort and allow limited function, settling of the prosthesis, bite adjustment and enhancement of the patient's approval level when the attachments are added and the denture is stabilized.

Make a good functional denture first (prior to placing implant), then follow-up with reline.



ISI COMPLETE® & I-MINI™ ONE-PIECE O-BALL IMPLANTS

- One-piece, self-tapping implant with Crown & Bridge and O-Ball abutment options
- Designed for immediate load
- Dependable, flapless placement procedure

I-MINI™ Specs

Diameter: 3.0 mm
Lengths: 10 mm, 12 mm, 14mm & 16 mm
O-Ball Diameter: 2.3 mm

ISI Complete® Specs

Diameters: 3.25 mm, 4.0 mm & 5.0 mm
Lengths: 8 mm, 10 mm, 12 mm, 14 mm & 16 mm
O-Ball Diameter: 2.3 mm

TSI TWO-PIECE IMPLANT



- Versatile, self-tapping two-piece implant for one stage placement with immediate load performance
- Dependable, flapless placement procedure
- Morse taper lock
- TSI can be restored by either the Direct or Indirect methods

TSI Two-Piece Implant Specs

Diameters: 3.25 mm, 4.0 mm & 5.0 mm
Lengths: 8 mm, 10 mm, 12 mm, 14 mm & 16 mm
O-Ball Diameter: 2.3 mm
O-Ball Abutment Collar Heights: 0 mm, 2 mm, 3 mm & 4 mm
(Note: 4 & 5 mm TSI implants use the same abutment)



COMPLETE ISI KIT

- Kit Includes: 1 Implant, 1 Analog, 1 Encapsulator, 2 O-Rings*

*(1) Red Processing O-Ring or Less Retentive Final O-Ring AND (1) Black Final O-Ring



[O-BALL]

4-ON-THE-FLOOR™ IMPLANT PLACEMENT and OVERDENTURE SERVICES

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PROCEDURE AND TECHNIQUES



READY TO RESTORE

Four to six ISI Complete® (or 3 mm I-MINI™) One-Piece O-Ball or TSI Two-Piece (with O-Ball Abutments) Implants placed (2 in lower anterior and 2 in lower quads) in the mandible. Have a good, new denture made with a proper plane of occlusion and esthetics.

1

FOR TSI, ATTACH O-BALL ABUTMENTS



For the TSI Implant, screw the O-Ball Abutments into implant bodies with O-Ball Driver (Cat# 0076 or 0076S).

2

TAKE IMPRESSION



With ISI or I-MINI™ One-Piece O-Ball Implants in place, or TSI Two-Piece Implants in place with O-Ball Abutments, take an impression directly of the O-Ball Attachment/Abutment, or with female caps and o-rings in place (if driving square is sub-gingival).

3

FULL ARCH IMPRESSION



Use medium bodied impression material around the O-Ball Attachments and record a full-arch impression with standard (heavy) body material.

4

ANALOGS



Snap O-ball analogs into the impression (in female caps if used) and forward to the laboratory.

5

TEMPORARY RETENTION



For the ISI or I-MINI™ O-Ball One-Piece Implants or the Two-Piece with O-Ball Abutments in place, use soft denture liner (PermaSoft) for denture retention while the new denture is being created or prior to final reline.

Excavate the original denture and fill with soft denture liner.

6

LAB MODEL

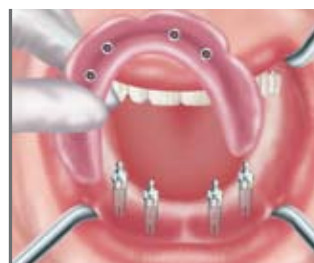


The laboratory pours a working model using the O-Ball Analogs.

For a new denture or reline, use a sound, previously constructed denture.

7

FINAL DENTURE



The laboratory will incorporate the O-ring encapsulators into the new denture or reline.

8

FINAL SEATING



Seat new denture.

Final restoration is complete.

After seating, if the denture is too tight, the lumen of the O-ring can be enlarged by opening with a #8 Round Bur (Cat#: #8 HS).

ISD - Immediate Stabilization Device (O-Ball Attachment)			
Catalog #	Description	Diameter	Length
I-MINI 3010 IOT	I-MINI™ One-Piece O-Ball Implant	3.0 mm	10mm
I-MINI 3012 IOT	I-MINI™ One-Piece O-Ball Implant	3.0 mm	12mm
I-MINI 3014 IOT	I-MINI™ One-Piece O-Ball Implant	3.0 mm	14mm

I-MINI™ Restorative (O-Ball)			
Catalog #	Description	Diameter	
ISI-I-MINI/TSI/IOT/KIT	ISI 3.25/I-MINI 3.0 Ball Kit (no implant) Includes: 1 - Red Processing O-ring (less retentive), 1 - Black Final O-ring, 1 - Encapsulator, 1 - Analog	3.0 mm	

ISI - Immediate Stabilization Implant (O-Ball Attachment)			
Catalog #	Description	Diameter	Length
ISI 32508 IOT	ISI O-Ball Attachment Implant	3.25 mm	8mm
ISI 32510 IOT	ISI O-Ball Attachment Implant	3.25 mm	10mm
ISI 32512 IOT	ISI O-Ball Attachment Implant	3.25 mm	12mm
ISI 32514 IOT	ISI O-Ball Attachment Implant	3.25 mm	14mm
ISI 32516 IOT	ISI O-Ball Attachment Implant	3.25 mm	16mm
ISI 4008 IOT	ISI O-Ball Attachment Implant	4.0 mm	8mm
ISI 4010 IOT	ISI O-Ball Attachment Implant	4.0 mm	10mm
ISI 4012 IOT	ISI O-Ball Attachment Implant	4.0 mm	12mm
ISI 4014 IOT	ISI O-Ball Attachment Implant	4.0 mm	14mm
ISI 4016 IOT	ISI O-Ball Attachment Implant	4.0 mm	16mm
ISI 5008 IOT	ISI O-Ball Attachment Implant	5.0 mm	8mm
ISI 5010 IOT	ISI O-Ball Attachment Implant	5.0 mm	10mm
ISI 5012 IOT	ISI O-Ball Attachment Implant	5.0 mm	12mm
ISI 5014 IOT	ISI O-Ball Attachment Implant	5.0 mm	14mm
ISI 5016 IOT	ISI O-Ball Attachment Implant	5.0 mm	16mm

ISI - Restorative (O-Ball)			
Catalog #	Description	Diameter	
ISI-I-MINI/TSI/IOT/KIT	ISI 3.25/ISD 3.0 O-Ball Kit (no implant) Includes: 1 - Red Processing O-ring (less retentive), 1 - Black Final O-ring, 1 - Encapsulator, 1 - Analog	3.0 mm / 3.25 mm	
ISI 4.0 IOT KIT	ISI 4.0 O-Ball Kit (no implant) Includes: 1 - Red Processing O-ring (less retentive), 1 - Black Final O-ring, 1 - Encapsulator, 1 - Analog	4.0 mm	
ISI 5.0 IOT KIT	ISI/TSI 5.0 O-Ball Kit (no implant) Includes: 1 - Red Processing O-ring (less retentive), 1 - Black Final O-ring, 1 - Encapsulator, 1 - Analog	5.0 mm	

TSI - Two-Piece Taper Screw Implant			
Catalog #	Description	Diameter	Length
32508 TSI	TSI Two-Piece Implant	3.25 mm	8mm
32510 TSI	TSI Two-Piece Implant	3.25 mm	10mm
32512 TSI	TSI Two-Piece Implant	3.25 mm	12mm
32514 TSI	TSI Two-Piece Implant	3.25 mm	14mm
32516 TSI	TSI Two-Piece Implant	3.25 mm	16mm
4008 TSI	TSI Two-Piece Implant	4.0 mm	8mm
4010 TSI	TSI Two-Piece Implant	4.0 mm	10mm
4012 TSI	TSI Two-Piece Implant	4.0 mm	12mm
4014 TSI	TSI Two-Piece Implant	4.0 mm	14mm

ISI/TSI - Instrumentation	
Catalog #	Description
.050 L	.050mm Hex tool (long)
.050 S	.050mm Hex tool (short)
TK	Thumb Knob
0076	3.25 ISI/TSI and 3.0 ISD IOT Driver
0076S	3.25 ISI/TSI and 3.0 ISD IOT Driver Short
0091	4.0 & 5.0mm ISI IOT Driver
RW	Ratchet Wrench
6101	Torque Lock Wrench

TSI - Prosthetic Components			
Catalog #	Description	Diameter	Length
3062 TSI HC	TSI Healing Cuff	3.25 mm	2 mm
3063 TSI HC	TSI Healing Cuff	3.25 mm	3 mm
3064 TSI HC	TSI Healing Cuff	3.25 mm	4 mm
3065 TSI HC	TSI Healing Cuff	3.25 mm	5 mm
4062 TSI HC	TSI Healing Cuff	4.0 mm	2 mm
4063 TSI HC	TSI Healing Cuff	4.0 mm	3 mm
4064 TSI HC	TSI Healing Cuff	4.0 mm	4 mm
4065 TSI HC	TSI Healing Cuff	4.0 mm	5 mm
5062 TSI HC	TSI Healing Cuff	5.0 mm	2 mm
5063 TSI HC	TSI Healing Cuff	5.0 mm	3 mm
5064 TSI HC	TSI Healing Cuff	5.0 mm	4 mm
3.25IOT0 TSI	TSI O-Ball Abutment	3.25 mm	0 mm
3.25IOT2 TSI	TSI O-Ball Abutment	3.25 mm	2 mm
3.25IOT3 TSI	TSI O-Ball Abutment	3.25 mm	3 mm
3.25IOT4 TSI	TSI O-Ball Abutment	3.25 mm	4 mm
4IOT0TSI	TSI O-Ball Abutment	4 mm & 5 mm	0 mm
4IOT2TSI	TSI O-Ball Abutment	4 mm & 5 mm	2 mm
4IOT3TSI	TSI O-Ball Abutment	4 mm & 5 mm	3 mm
4IOT4TSI	TSI O-Ball Abutment	4 mm & 5 mm	4 mm

TSI - Restorative (O-Ball)		
Catalog #	Description	Diameter
ISI-I-MINI/TSI/IOT KIT	TSI 3.25 O-Ball Kit (no implant) Includes: 1 - Red Processing O-ring (less retentive), 1 - Black Final O-ring, 1 - Encapsulator, 1 - Analog, 1 O-Ball Abutment	3.25 mm
TSI 4.0 IOT KIT	TSI 4.0 O-Ball Kit (no implant) Includes: 1 - Red Processing O-ring (less retentive), 1 - Black Final O-ring, 1 - Encapsulator, 1 - Analog, 1 O-Ball Abutment	4.0 mm
ISI 5.0 IOT KIT	ISI/TSI 5.0 O-Ball Kit (no implant) Includes: 1 - Red Processing O-ring (less retentive), 1 - Black Final O-ring, 1 - Encapsulator, 1 - Analog, 1 O-Ball Abutment	5.0 mm

Denture Liner	
Catalog #	Description
PS Clear Powder 60g	PermaSoft Clear Powder 60g
PS Clear Powder 120g	PermaSoft Clear Powder 120g
PS Pink Powder 60g	PermaSoft Pink Powder 60g
PS Pink Powder 120g	PermaSoft Pink Powder 120g
PS Liquid 60ml	PermaSoft Liquid 60ml
PS Sealer 30ml	PermaSoft Sealer 30ml
PS 60g Pink Kit	PermaSoft 60g Pink Kit
PS 120g Pink Kit	PermaSoft 120g Pink Kit

For questions or more information on OCO Biomedical O-Ball Overdenture Restorative Procedures, please call 800-228-0477 (+505-293-0025 international) or email: sales@ocobiomedical.com

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8500 Washington St. NE, Suite A-1 • Albuquerque, NM 87113 • (800) 228-0477 • (505) 293-0025

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