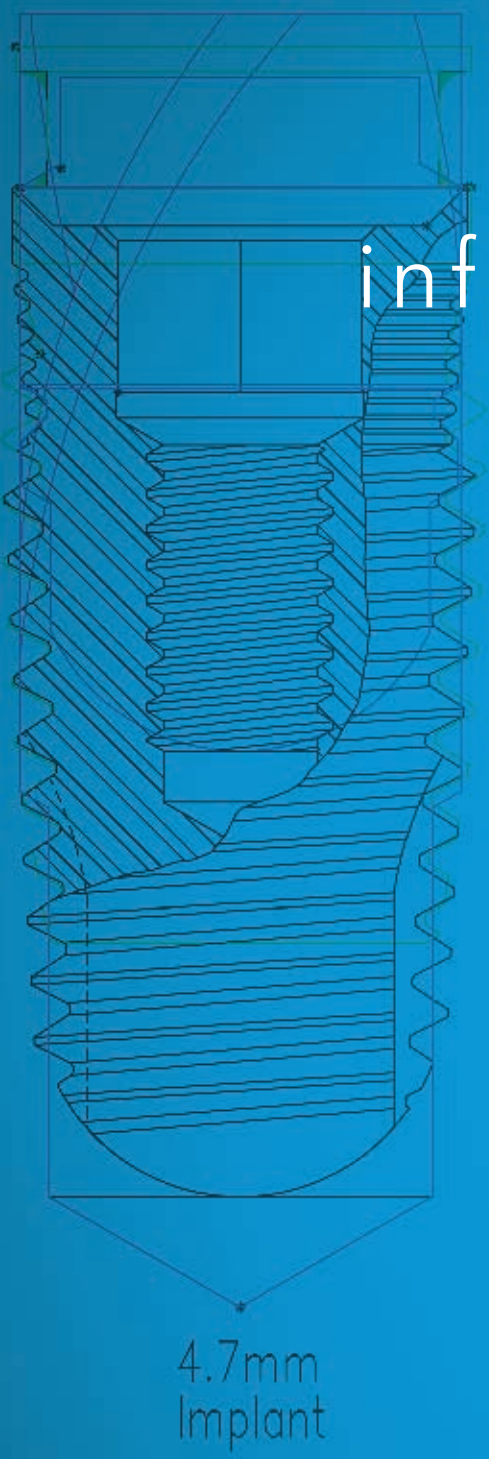
ACE

infinity

Dental Implant Systems

INTERNAL HEX Implant System



infinite **OPPORTUNITIES IN IMPLANTOLOGY**

For almost 50 years ACE Surgical has been dedicated to dental surgical advancements. We continue to develop and manufacture the highest quality, state-of-the-art products at competitive prices; while keeping customer service at the core of our business.

Our latest development, the infinity Dental Implant System has been developed, engineered, and manufactured by some of the industry leading professionals in the USA. The infinity Dental Implant System allows you to place and restore our implants with the same confidence you get from your current system without the added expenses.

The infinity INTERNAL HEX Dental Implant System is committed to delivering a truly compatible dental implant solution to both you and your patients.

Infinity Implants—infinite innovation, endless opportunities in implantology.

ACE Surgical Supply Co., Inc. • 1.800.441.3100 • acesurgical.com
1034 Pearl Street, Brockton, MA 02301 • E-Mail: info@acesurgical.com

infinity
Dental Implant Systems

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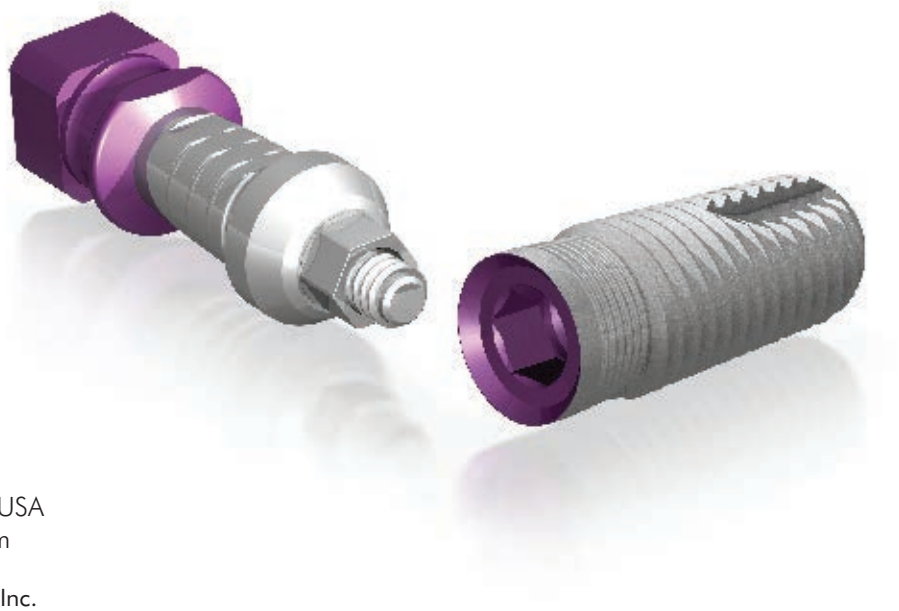


ACE Surgical Supply Co., Inc.
1034 Pearl Street, Brockton, MA 02301 - USA
1-800-441-3100 • www.acesurgical.com

Introduction
INTERNAL HEX IMPLANTS

infinity
Dental Implant Systems

infinity INTERNAL HEX Implants

The infinity INTERNAL HEX implant has been designed to work with some of the leading internal hex implants in the market today. The infinity INTERNAL HEX platform allows for a secure connecting interface between the implant and prosthetic. The precise manufacturing of all INTERNAL HEX components is what separates this system from other compatible dental implant systems.

The implants are manufactured in the USA from high-strength, bio-compatible titanium alloy (Ti 6AI-4V-ELI). The implant's roughened surface treatment allows for a greater surface area for osseointegration.

The engineered micro-grooves found on the collar of the implant are for maintaining crestal bone. The tapered thread design allows for immediate mechanical fixation, which in most instances, allows for early implant loading.

The available prosthetics options for the infinity INTERNAL HEX are designed to offer familiar options without the inflated costs. From a single tooth restoration to a full arch, infinity INTERNAL HEX prosthetics are easy to use, and restore functionality at a price that makes sense for your practice.

INTERNAL HEX
Ø3.5mm Platform

Ø3.7mm Implant

Ø4.1mm Implant

INTERNAL HEX
Ø4.5mm Platform

Ø4.7mm Implant

Ø5.1mm Implant

INTERNAL HEX PLATFORM

The popular INTERNAL HEX allows for low-profile restorative options compatible with internal hex configured implants.

COLOR-CODED

The entire INTERNAL HEX system is color-coded. From the drilling process, to the final restoration, we have color-coded all the components allowing you and your referrals to easily identify the implant platform and their correct components.

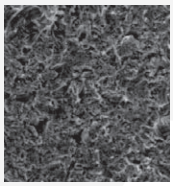
MICRO-GROOVES

Placed at the neck of all INTERNAL HEX implants are micro-grooves that aid in maintaining crestal bone.

TAPERED THREAD

Allows for immediate mechanical fixation.

RBM TEXTURED SURFACE



For over twenty years Resorbable Blast Media technology has allowed for improved osseointegration. RBM is a surface treatment designed to roughen the surface of an implant without leaving the residual embedded blast particles or debris in the treated substrate. To achieve the desired roughening, a biocompatible material with a suitable hardened particle size is used and then subsequently dissolved from the surface with a defined passivation treatment. The result is a rougher surface than the traditional acid etch-treatments, providing a greater surface area for osseointegration.

TRIPLE LEAD THREAD

For faster implant insertion.

SHARP CUTTING FLUTES

Allows for easy implant insertion.

LIFETIME WARRANTY

The ACE Surgical implant warranty program is designed to support all clinicians involved with the infinity Implant System.

(See page 30 for details)

FIXTURE-MOUNT/TRANSFER
Use as a fixture-mount or a transfer. The mount can be converted to a temporary abutment.

IMPLANT SUSPENSION CHAMBER
Color-coded for easy recognition. The suspension chamber securely cradles the implant and allows for easy removal once the cap is removed.

ALIGNMENT GUIDE
Implant is aligned with the flat, squared surface for correct buccal placement.

COVER SCREW
Included inside the vial's bottom cap.

STERILE PACKAGING
All implants come packed sterile with easy to read pull back seal with detailed labeling to expose the implant chamber.

CONTAINED IMPLANT
Vial packed implant suspension and easy to retrieve cover screw.

IMPLANT BOX
Implant symbol, size and color clearly distinguishes the INTERNAL HEX product. Side label includes implant specifications.

INSTRUCTIONS
Every implant complete with instructions for use enclosed.

PATIENT RECORD LABELS
Every implant comes complete with multiple patient labels for adhering to patient files.

INTERNAL HEX

Ø3.7mm Tapered Implant

Ø3.5mm Platform

Product No.	203708	203710	203711	203713	203716
Diameter	Ø3.7mm	Ø3.7mm	Ø3.7mm	Ø3.7mm	Ø3.7mm
Length	8mm	10mm	11.5mm	13mm	16mm

IMPLANT COVER SCREW

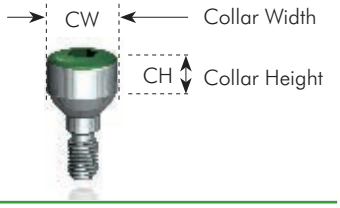
Included with every Implant

20585001

INTERNAL HEX
Ø4.1mm Tapered Implant

Ø3.5mm Platform

Product No.	204106	204108	204110	204111	204113	204116
Diameter	Ø4.1mm	Ø4.1mm	Ø4.1mm	Ø4.1mm	Ø4.1mm	Ø4.1mm
Length	6mm	8mm	10mm	11.5mm	13mm	16mm



IMPLANT COVER SCREW
Included with every Implant

20585001

INTERNAL HEX Healing Caps

Ø3.5mm Platform

- Uses a 1.25mm Hex Driver
- 30° Emergence Profile for Contoured Healing Caps
- Recommended Seating Torque 20 N-cm

Product No.	20135373	20135375	20135453	20135455	20135553	20135555
Platform	Ø3.5mm	Ø3.5mm	Ø3.5mm	Ø3.5mm	Ø3.5mm	Ø3.5mm
Collar Width	3.7mm	3.7mm	4.5mm	4.5mm	5.5mm	5.5mm
Collar Height	3mm Straight	5mm Straight	3mm Contoured	5mm Contoured	3mm Contoured	5mm Contoured

INTERNAL HEX

Ø4.7mm Tapered Implant

Ø4.5mm Platform

Product No.	204708	204710	204711	204713	204716
Diameter	Ø4.7mm	Ø4.7mm	Ø4.7mm	Ø4.7mm	Ø4.7mm
Length	8mm	10mm	11.5mm	13mm	16mm

IMPLANT COVER SCREW

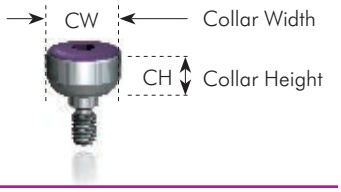
Included with every Implant

20585501

INTERNAL HEX
Ø5.1mm Tapered Implant

Ø4.5mm Platform

Product No.	205106	205108	205110	205111	205113	205116
Diameter	Ø5.1mm	Ø5.1mm	Ø5.1mm	Ø5.1mm	Ø5.1mm	Ø5.1mm
Length	6mm	8mm	10mm	11.5mm	13mm	16mm



IMPLANT COVER SCREW

Included with every Implant

20585501

INTERNAL HEX Healing Caps

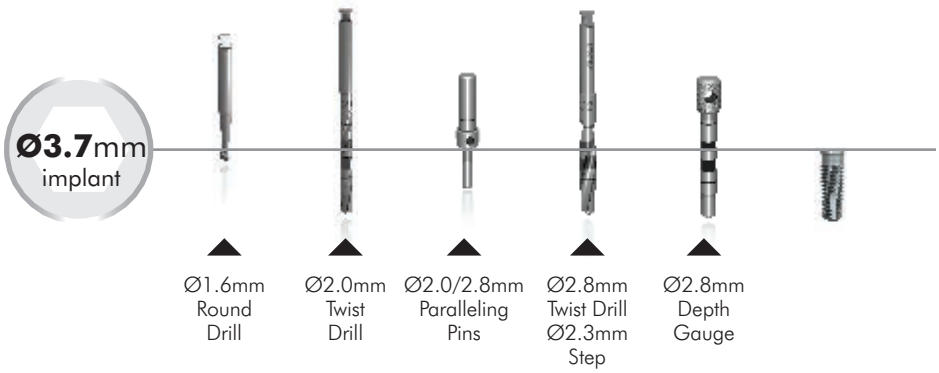
Ø4.5mm Platform

- Uses a 1.25mm Hex Driver
- 30° Emergence Profile for Contoured Healing Caps
- Recommended Seating Torque 20 N-cm

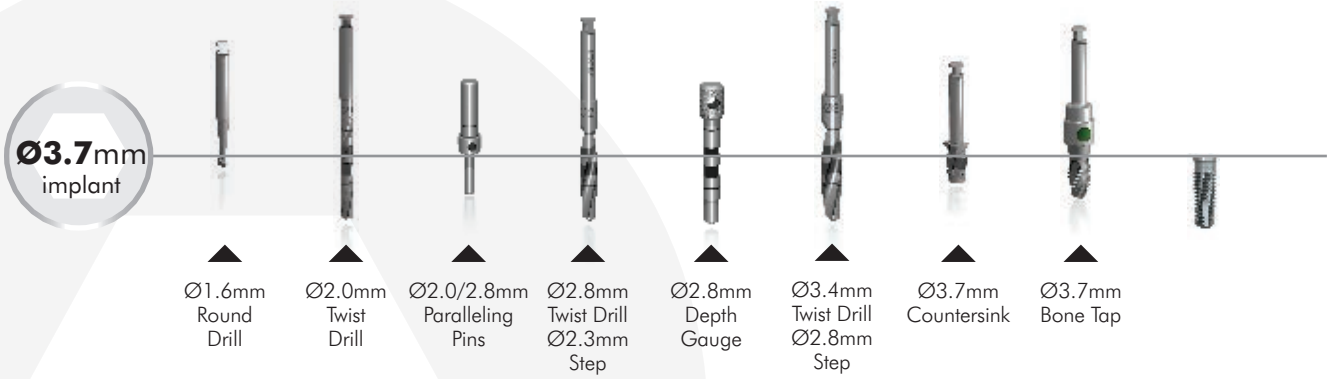
Product No.	20145473	20145475	20145553	20145555	20145653	20145655
Platform	Ø4.5mm	Ø4.5mm	Ø4.5mm	Ø4.5mm	Ø4.5mm	Ø4.5mm
Collar Width	4.7mm	4.7mm	5.5mm	5.5mm	6.5mm	6.5mm
Collar Height	3mm Straight	5mm Straight	3mm Contoured	5mm Contoured	3mm Contoured	5mm Contoured

infinity **INTERNAL HEX** 3.7mm IMPLANT
Drilling Sequences

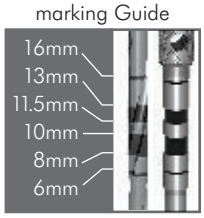
Soft Bone Drilling Sequence*



Dense Bone Drilling Sequence*



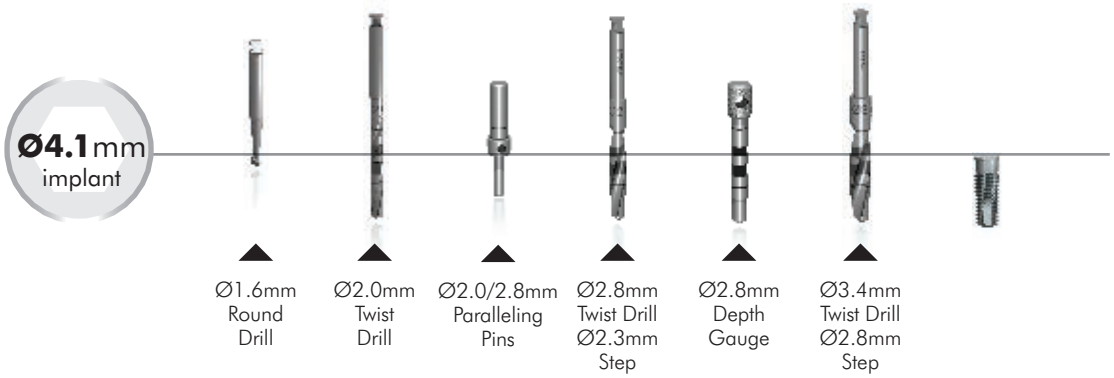
Twist Drills and Depth Gauge marking Guide



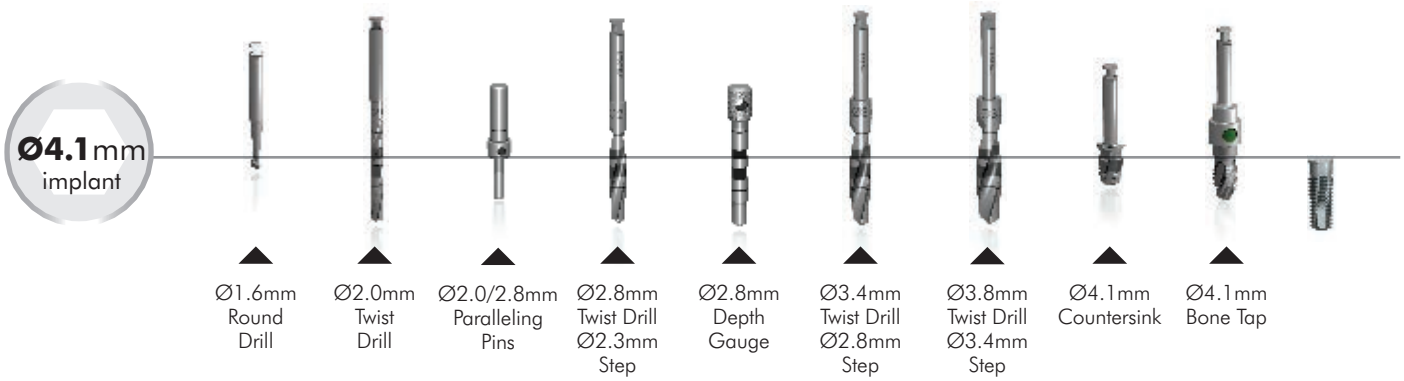
* Note: Instruments shown are drilling for a 11.5mm implant. Adjust accordingly for other implant depths.
Caution: The surgical twist drills are approximately 1mm longer in length than what is described.

infinity **INTERNAL HEX** 4.1mm IMPLANT
Drilling Sequences

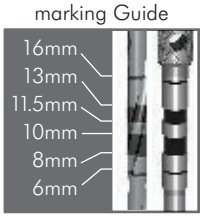
Soft Bone Drilling Sequence*



Dense Bone Drilling Sequence*



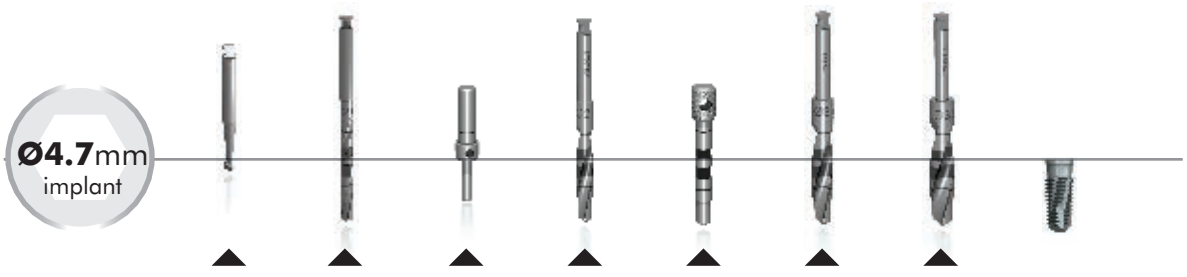
Twist Drills and Depth Gauge marking Guide



* Note: Instruments shown are drilling for a 11.5mm implant. Adjust accordingly for other implant depths.
Caution: The surgical twist drills are approximately 1mm longer in length than what is described.

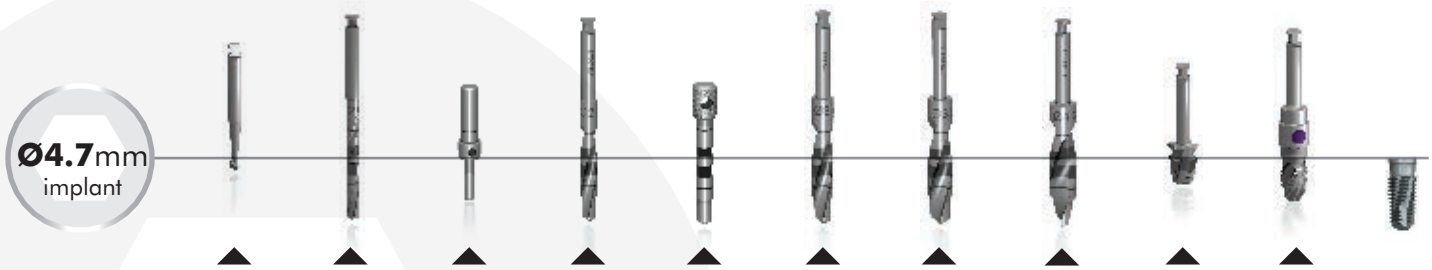
infinity **INTERNAL HEX** 4.7mm IMPLANT
Drilling Sequences

Soft Bone Drilling Sequence*



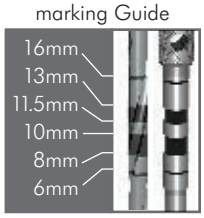
Ø1.6mm Round Drill	Ø2.0mm Twist Drill	Ø2.0/2.8mm Paralleling Pins	Ø2.8mm Twist Drill Ø2.3mm Step	Ø2.8mm Depth Gauge	Ø3.4mm Twist Drill Ø2.8mm Step	Ø3.8mm Twist Drill Ø3.4mm Step

Dense Bone Drilling Sequence*



Ø1.6mm Round Drill	Ø2.0mm Twist Drill	Ø2.0/2.8mm Paralleling Pins	Ø2.8mm Twist Drill Ø2.3mm Step	Ø2.8mm Depth Gauge	Ø3.4mm Twist Drill Ø2.8mm Step	Ø3.8mm Twist Drill Ø3.4mm Step	Ø4.4mm Twist Drill Ø3.8mm Step	Ø4.7mm Countersink	Ø4.7mm Bone Tap

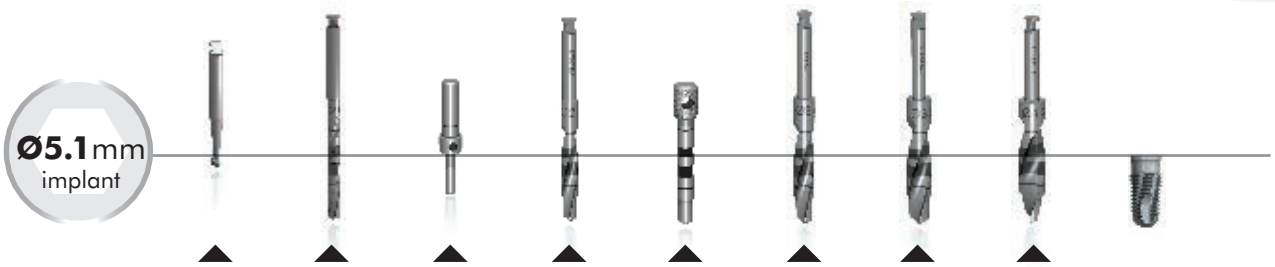
Twist Drills and Depth Gauge marking Guide



* Note: Instruments shown are drilling for a 11.5mm implant. Adjust accordingly for other implant depths.
Caution: The surgical twist drills are approximately 1mm longer in length than what is described.

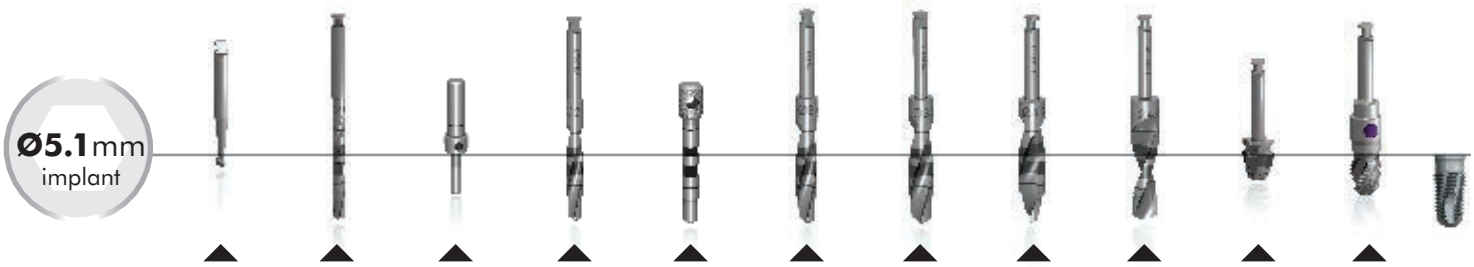
infinity **INTERNAL HEX** 5.1mm IMPLANT
Drilling Sequences

Soft Bone Drilling Sequence*



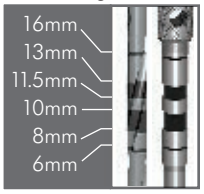
Ø1.6mm Round Drill | Ø2.0mm Twist Drill | Ø2.0/2.8mm Paralleling Pins | Ø2.8mm Twist Drill Ø2.3mm Step | Ø2.8mm Depth Gauge | Ø3.4mm Twist Drill Ø2.8mm Step | Ø3.8mm Twist Drill Ø3.4mm Step | Ø4.4mm Twist Drill Ø3.8mm Step

Dense Bone Drilling Sequence*



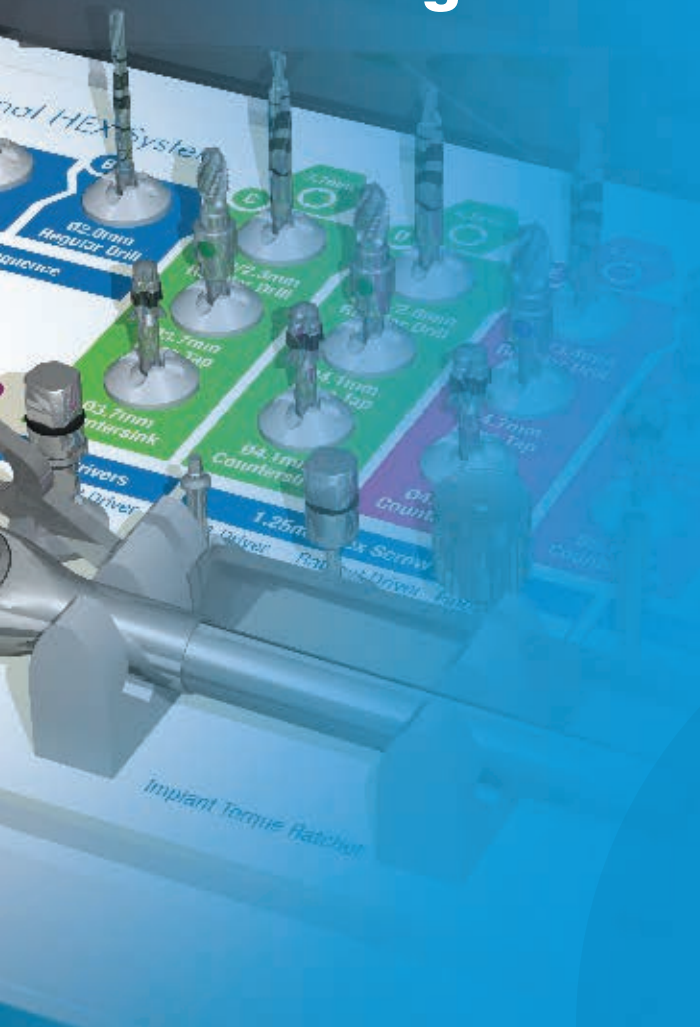
Ø1.6mm Round Drill | Ø2.0mm Twist Drill | Ø2.0/2.8mm Paralleling Pins | Ø2.8mm Twist Drill Ø2.3mm Step | Ø2.8mm Depth Gauge | Ø3.4mm Twist Drill Ø2.8mm Step | Ø3.8mm Twist Drill Ø3.4mm Step | Ø4.4mm Twist Drill Ø3.8mm Step | Ø4.8mm Twist Drill Ø4.4mm Step | Ø5.1mm Countersink | Ø5.1mm Bone Tap

Twist Drills and Depth Gauge marking Guide



* Note: Instruments shown are drilling for a 11.5mm implant. Adjust accordingly for other implant depths.
Caution: The surgical twist drills are approximately 1mm longer in length than what is described.

infinity **INTERNAL HEX**
Surgical Drills, Drivers, and Kit

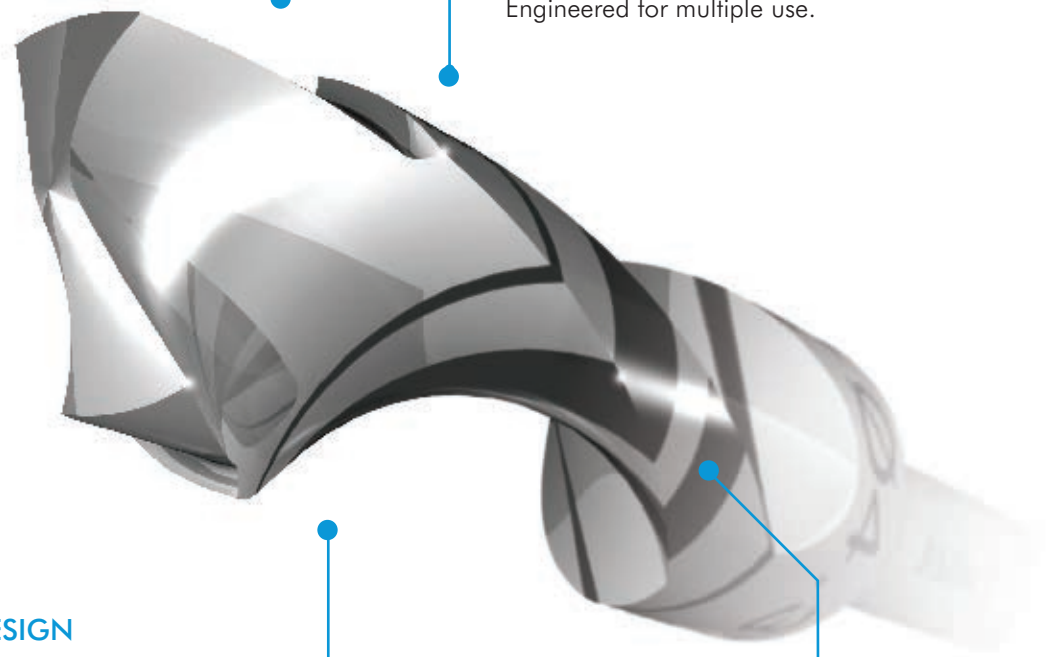


CERTIFIED PRECISION

Manufactured under strictly controlled machining and certified to ISO 13485 regulations.

BUILT TO LAST

Manufactured from hardened, high-strength, corrosive resistant surgical drilling materials. Engineered for multiple use.



PROVEN DESIGN

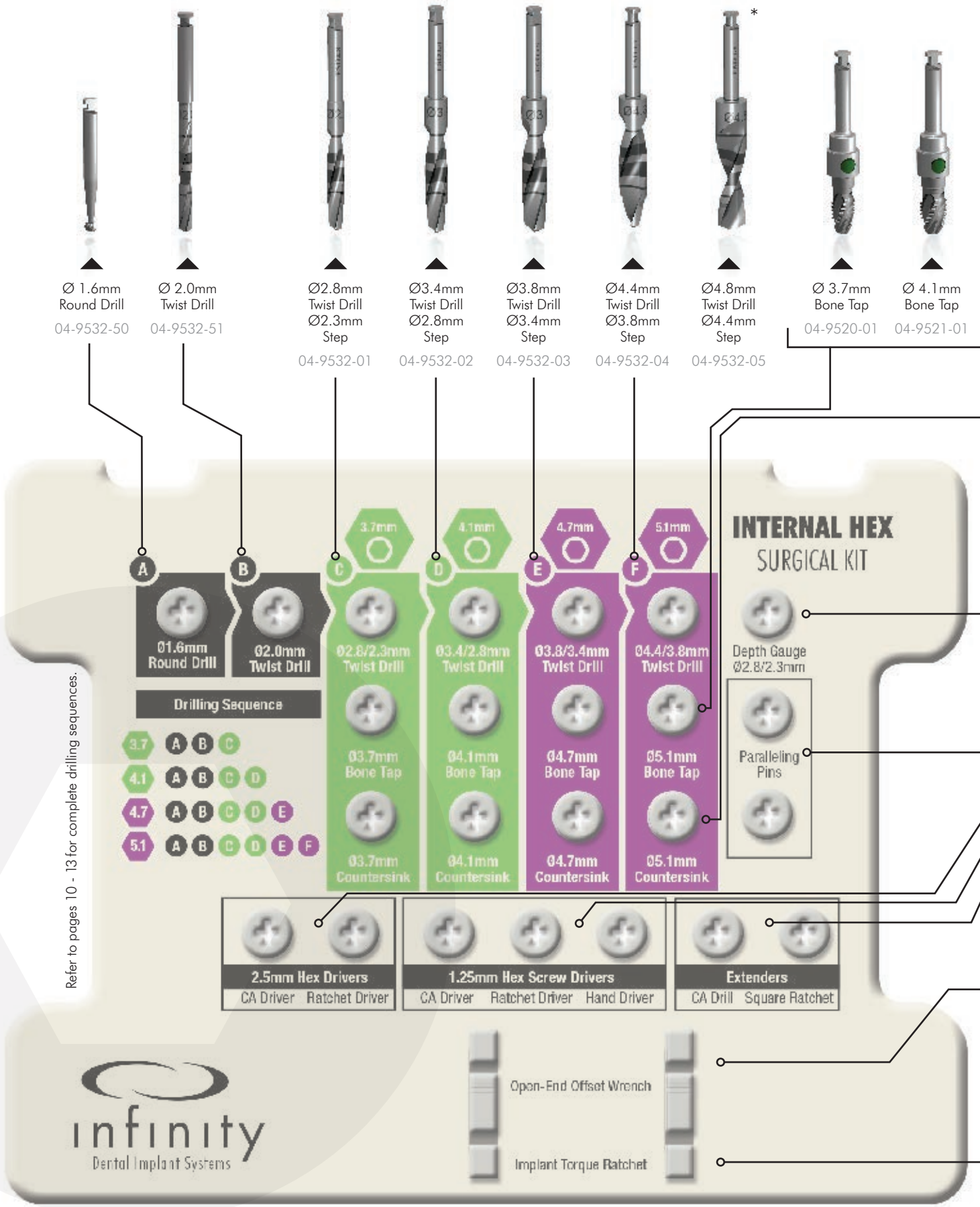
Proven twist drill geometry allows efficient bone chip removal.

STEP DESIGN

The steps on the larger drills fit the diameter of the previously drilled osteotomy to aid in alignment.

LASER MARKED

Precise laser markings allows for accurate drill identification and implant depth drilling.



* NEW Dense Bone Drill for 5.1 implant added. The surgical tray will be updated to accommodate this drill in early 2016

Ø 4.7mm Bone Tap
04-9523-01

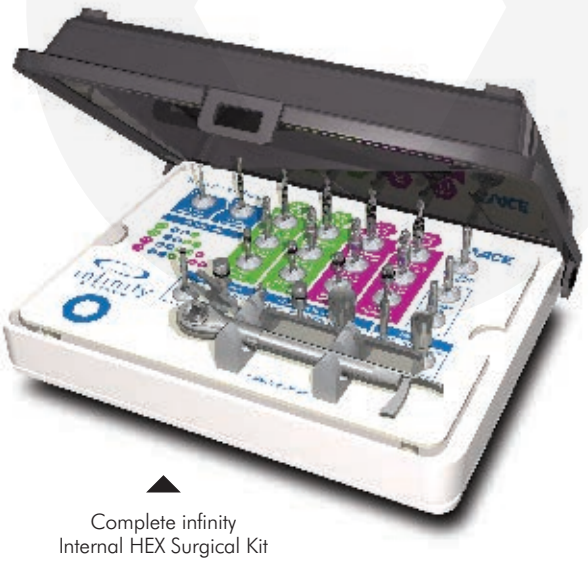
Ø 5.1mm Bone Tap
04-9525-01

Ø 3.7mm Countersink
04-9535-01

Ø 4.1mm Countersink
04-9535-04

Ø 4.7mm Countersink
04-9535-02

Ø 5.1mm Countersink
04-9535-03



Complete infinity Internal HEX Surgical Kit
20-9910-00

Ø 2.8mm Depth Gauge
20-9920-01

Ø 2.0/2.8mm Paralleling Pins
20-9730-02

2.5mm Hex CA Driver Tool
04-9770-01

2.5mm Hex Ratchet Driver Tool
20-1560-01

1.25mm Hex CA Driver
04-1510-02

1.25mm Hex Ratchet Driver
20-1510-02

1.25mm Hex Hand Driver
20-1575-02

Drill Extender
04-9599-01

22mm Square Ratchet Driver Extension
20-1557-11

Open-End Offset Wrench
20-1610-01

Implant Torque Ratchet - 20-45 N-cm
003-5245

infinity
Dental Implant System

infinity
INTERNAL HEX Prosthetics

INTERNAL HEX Ø3.5

PLATFORM PROSTHETICS

Fits Ø3.7mm and Ø4.1mm Implants

Implant Analog

Product No.	20735

Closed and Open Tray Transfers

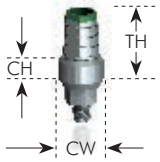
Impression Copings w/Retaining Screw

- Implant Level Transfer
- Includes Retaining Screw
- Uses a 1.25mm Hex Driver
- Recommended Seating Finger Pressure

Product No.	2063545	2053545
Collar Width	4.5mm	4.5mm
Tray Type	Closed Tray	Open Tray

Prepable Abutments

with Retaining Screw



CW = Collar Width
CH = Collar Height
TH = Total Height

- Includes Retaining Screw
- Uses a 1.25mm Hex Driver
- Recommended Seating Torque 30 N-cm
- 1mm Prepable Score Lines

Product No.	20235452	20235454
Collar Width	4.5mm	4.5mm
Collar Height	2mm	4mm
Total Height	7mm	9mm

UCLA

- Includes Retaining Screw
- Uses a 1.25mm Hex Driver
- Recommended Seating Torque 30 N-cm

Product No.	2093545	2083545
Collar Width	4.5mm	4.5mm
Engagement	Non-Engaged	Engaged

INTERNAL HEX Ø4.5mm

PLATFORM PROSTHETICS

Fits Ø4.7mm and Ø5.1mm Implants

Implant Analog

Product No.	20745

Closed and Open Tray Transfers

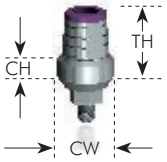
Impression Copings w/Retaining Screw

- Implant Level Transfer
- Includes Retaining Screw
- Uses a 1.25mm Hex Driver
- Recommended Seating Finger Pressure

Product No.	2064555	2054555
Collar Width	5.5mm	5.5mm
Tray Type	Closed Tray	Open Tray

Prepable Abutments

with Retaining Screw



CW = Collar Width
CH = Collar Height
TH = Total Height

- Includes Retaining Screw
- Uses a 1.25mm Hex Driver
- Recommended Seating Torque 30 N-cm
- 1mm Prepable Score Lines

Product No.	20245552	20245554
Collar Width	5.5mm	5.5mm
Collar Height	2mm	4mm
Total Height	7mm	9mm

UCLA

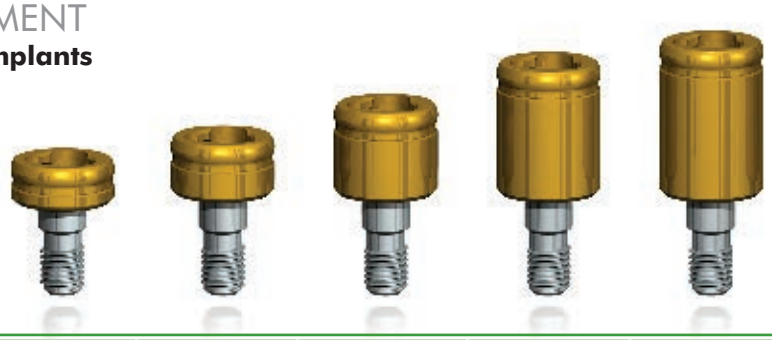
- Includes Retaining Screw
- Uses a 1.25mm Hex Driver
- Recommended Seating Torque 30 N-cm

Product No.	2094555	2084555
Collar Width	5.5mm	5.5mm
Engagement	Non-Engaged	Engaged

INTERNAL HEX Ø3.5 Platform

ZEST LOCATOR® ABUTMENT

Fits Ø3.7mm and Ø4.1mm Implants



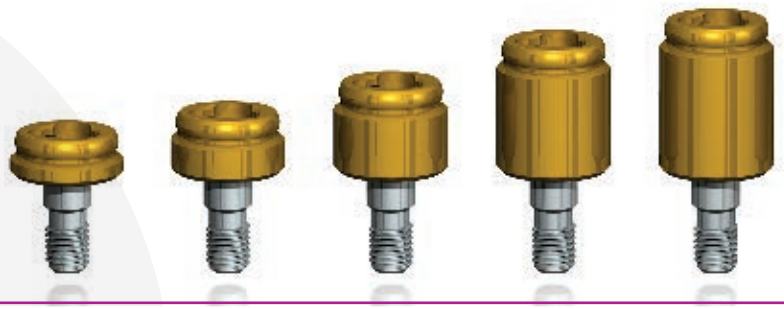
Product No.	206-8662	206-8663	206-8664	206-8665	206-8625
Diameter	Ø3.5mm	Ø3.5mm	Ø3.5mm	Ø3.5mm	Ø3.5mm
Collar Height	1.0mm	2.5mm	3.5mm	4.5mm	5.5mm

- Recommended Seating Torque 30 N-cm

INTERNAL HEX Ø4.5mm Platform

ZEST LOCATOR® ABUTMENT

Fits Ø4.7mm and Ø5.1mm Implants



Product No.	206-8672	206-8673	206-8674	206-8675	206-8627
Diameter	Ø4.5mm	Ø4.5mm	Ø4.5mm	Ø4.5mm	Ø4.5mm
Collar Height	1.0mm	2.0mm	3.0mm	4.0mm	5.0mm

- Recommended Seating Torque 30 N-cm

ZEST LOCATOR® COMPONENTS

Fits All INTERNAL HEX Implants

REPLACEMENT MALE - SETS

Each Set includes:
(1) Denture Cap with Black Processing Male
(1) White Block-Out Spacer
(3) Nylon Retention Males: 1 each of the Dual or Extended Range Nylon Retention Males

Dual Retention Replacement Male

Two retention surfaces, the outer ring and the center nipple allows for maximum hold. Good for use with divergent implants up to 10° (accommodates up to 20° between 2 or more implants).

Extended Range Replacement Male

Single retention surface using only the outer ring with the inner nipple removed. Good for use with divergent implants up to 20° (accommodates up to 40° between 2 or more implants).

REPLACEMENT PROCESSING PACKS

- Available in various retention strengths
- Sold in packages of 4

Zest LOCATOR® Replacement Dual Retention Male Sets

2 sets / pkg - 206-85192
10 sets / pkg - 206-851910

Zest LOCATOR® Replacement Extended Range Male Sets

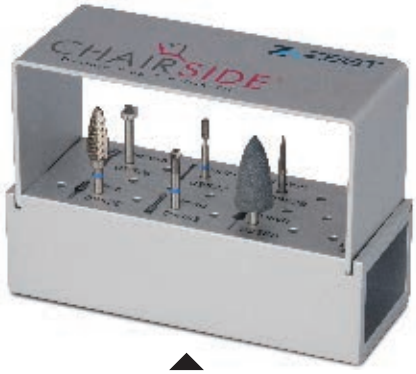
2 sets / pkg - 206-85402
10 sets / pkg - 206-854010

Color	CLEAR	PINK	BLUE	GREEN	ORANGE	RED
Product No.	206-8524	206-8527	206-8529	206-8547	206-8915	206-8548
Retention	Standard	Light	Extra Light	Standard	Light	Extra Light
Lbs.	5 lbs.	3 lbs.	1.5 lbs.	3-4 lbs.	2 lbs.	.5-1.5 lbs.
Grams	2268	1361	680	1361-1814	907	226-680
	Male Processing Pack (Dual Retention)			**Male Processing Pack** (Extended Range)		

CHAIRSIDE DENTURE PREP & POLISH KIT

For Installation of Locator® Denture Caps

- A comprehensive kit consisting of Recess, Trim, Undercut, Grind and Vent Burs, as well as a Polisher, all of which are designed to address the most frequent overdenture preparation requirements.
- A unique to the market CHAIRSIDE Recess Bur, specifically designed by ZEST Anchors, that quickly and easily prepares the exact size recess for the LOCATOR and SATURNO Denture Attachment Housings (Denture Caps)



Zest CHAIRSIDE Denture Prep & Polish Kit

206-09582

Zest LOCATOR® Torque Wrench Contra Angle Driver

206-8914

Zest LOCATOR® Male Installation / Removal Tool

This end for LOCATOR® Abutments

ZEST LOCATOR® LAB COMPONENTS

Zest LOCATOR® White Block-Out Spacer - 20/pkg

206-8514

Zest LOCATOR® Transfer - 4/pkg

206-8505

Zest LOCATOR® Analog - 4/pkg

206-8516

Zest LOCATOR® Male Installation / Removal Tool

206-8393

Zest LOCATOR® Male Installation / Removal Tool

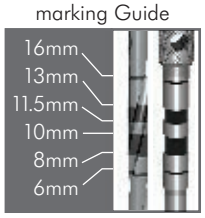
This end for retention males

infinity **INTERNAL HEX**
Surgical Protocol

Implant Site Preparation
INTERNAL HEX Implant Placement Protocol

Drilling depth shown for 11.5mm(L) implant.

Twist Drills and Depth Gauge marking Guide



Step 1 - Determine Tissue Depth
- Prior to drilling, use a tissue probe to determine the soft tissue depth.

Step 2 & 3 – Preparing the Surgical Site
- Make a mesio-distal incision along the buccal side of the alveolar crest through the mucoperiosteum and attached gingiva to the bone and reflect the flap.

Step 4 - Marking the Implant Site
- Using a handpiece at 800 to 1200rpm and copious irrigation, mark the initial osteotomy using the Ø1.6mm round drill.

Step 5 - Drilling the Pilot Hole
- Drill the initial pilot osteotomy using the Ø2.0mm twist drill.
- Drill to appropriate implant length.

Step 6 - Check Parallel Alignment
- Confirm the appropriate drill angle with the 2mm paralleling pin.
- Osteotomy corrections can be made during the following drilling step.

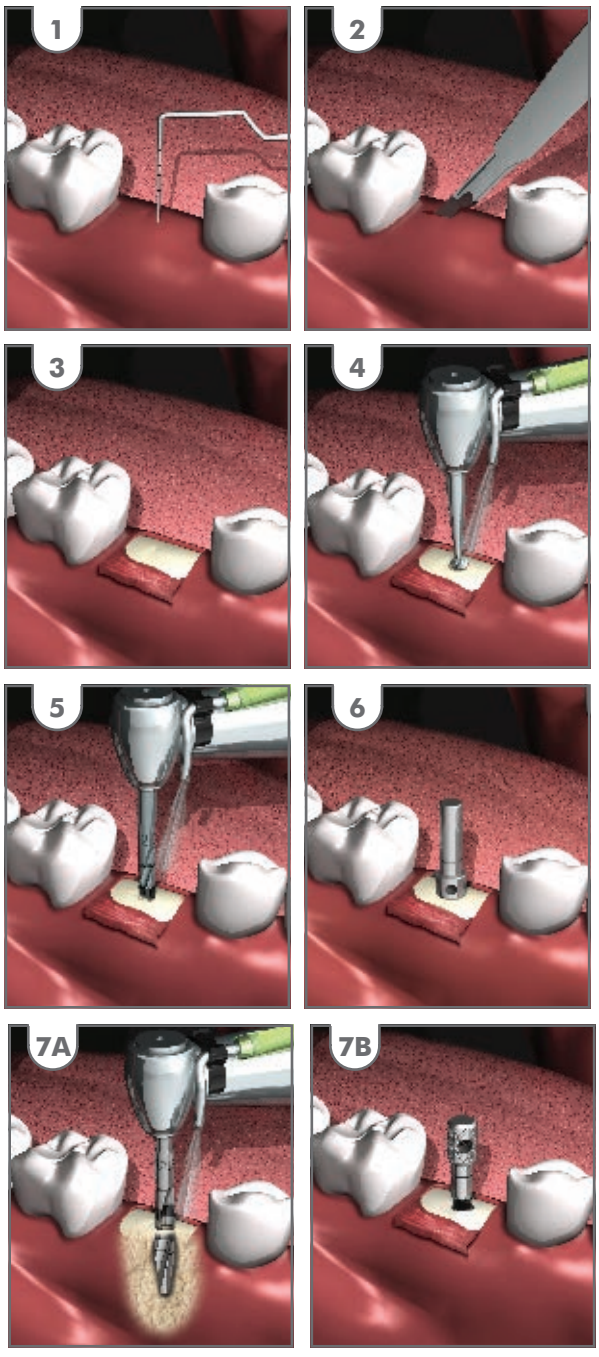
Step 7A - Initial Implant Drill - Ø2.8mm/Ø2.3mm
- Select the Ø2.8mm twist drill with the Ø2.3mm step and drill to the appropriate length.

Step 7B - Measure Drill Depth
- Check to make sure you have achieved the appropriate depth by placing the depth gauge into the osteotomy.

Ø3.7 **NOTE - If placing a Ø3.7mm Implant:**

FOR SOFT BONE, this is the final step. Proceed to "Loading Implant Onto Driver" on page 24.

FOR DENSE BONE, proceed to "Additional Steps for Dense Bone" on page 23.



Continued on following page

Caution: The surgical twist drills are approximately 1mm longer in length than what is described.

Implant Site Preparation - Cont.

INTERNAL HEX Implant Placement Protocol

Drilling depth shown for 11.5mm(L) implant.

Step 7C - Twist Drill - Ø3.4mm/Ø2.8mm

- Select the Ø3.4mm twist drill with the Ø2.8mm step and drill to the appropriate length.

Ø4.1 **NOTE - If placing a Ø4.1mm Implant:**

FOR SOFT BONE, this is the final step. Proceed to "Loading Implant Onto Driver" on page 24.

FOR DENSE BONE, proceed to "Additional Steps for Dense Bone" below, on this page.

Step 7D - Twist Drill - Ø3.8mm/Ø3.4mm

- Select the Ø3.8mm twist drill with the Ø3.4mm step and drill to the appropriate length.

Ø4.7 **NOTE - If placing a Ø4.7mm Implant:**

FOR SOFT BONE, this is the final step. Proceed to "Loading Implant Onto Driver" on page 24.

FOR DENSE BONE, proceed to "Additional Steps for Dense Bone" below, on this page.

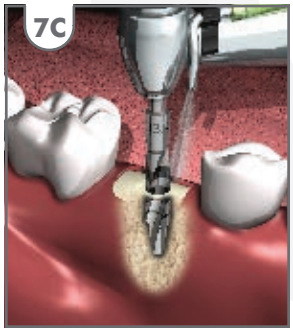
Step 7E - Twist Drill - Ø4.4mm/Ø3.8mm

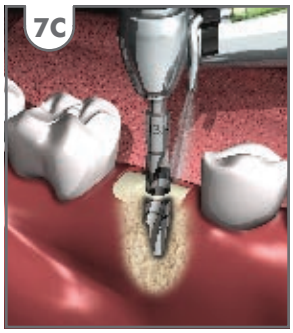
- Select the Ø3.8mm twist drill with the Ø3.4mm step and drill to the appropriate length.

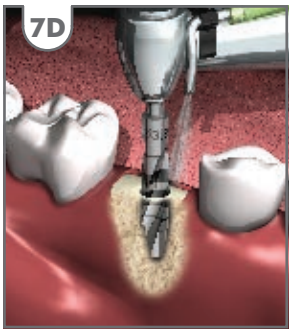
Ø5.1 **NOTE - If placing a Ø5.1mm Implant:**

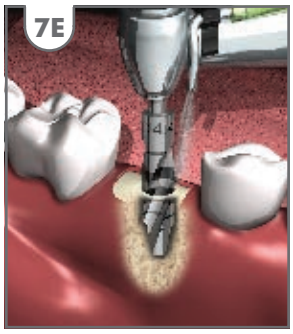
FOR SOFT BONE, this is the final step. Proceed to "Loading Implant Onto Driver" on page 24.

FOR DENSE BONE, proceed to "Additional Steps for Dense Bone" below, on this page.









Additional Steps for Dense Bone

INTERNAL HEX Implant Placement Protocol

Drilling depth shown for 11.5mm(L) implant.

Step 8- Twist Drill - Use the Next Larger Size:

- Ø3.7mm implant, use the Ø3.4mm/2.8mm step,
  Ø4.1mm implant, use the Ø3.8mm/3.4mm step,
  Ø4.7mm implant, use the Ø4.4mm/3.8mm step,
  Ø5.1mm implant, use the Ø4.8mm/4.4mm step,
- Drill to the appropriate length.

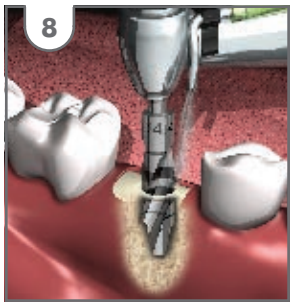
Step 9- Countersink - Match the Implant Diameter:

- Select the matching diameter countersink and drill to the top of the laser marking.

Step 10- Bone Tap - match the Implant Diameter:

- Select the matching diameter bone tap and using slow speed (20rpm) tap the osteotomy to the bottom of the laser marking as shown.

Please refer to pages 10 - 13 for the complete drilling sequences.



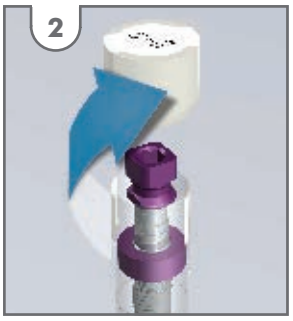
Instruments shown are for reference only. Follow Dense Bone Additional Steps 8, 9, and 10 for actual instrument sizes.

Loading Implant Onto Driver

INTERNAL HEX Implant Placement Protocol

Step 1 - Implant Packaging

- Remove the Tyvek® sealed blister package from the outside box. Open this blister package over a sterile field by locating and pulling off the sealed Tyvek® lid. With the blister package open, drop the sterile inner implant vial onto the sterile field.

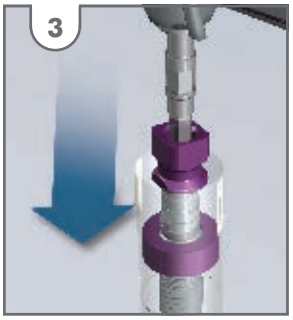


Step 2 - Break Sterile Strip - Remove Cap

- Open the sterile implant vial by breaking the tamper proof tape and removing the cap using a gentle twisting and pulling motion.

Step 3 - Loading the Driver

- Using either the 2.5mm hex ratchet or contra-angle driver tool, carefully rotate and engage the hexagon of the implant and driver tool in a downward direction.
- Pick up the implant body from the vial.
- Use caution when bringing implant to the surgical site.



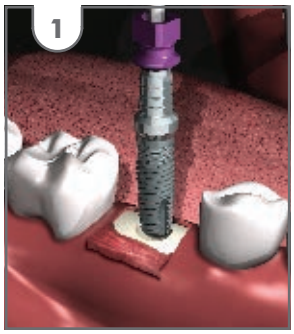
Placing Implant Into Osteotomy

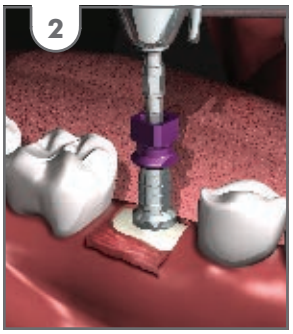
INTERNAL HEX Implant Placement Protocol

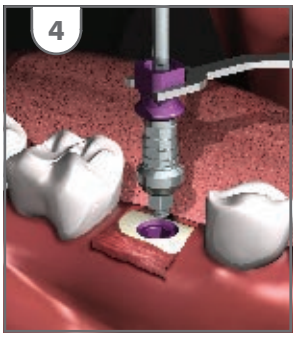
Step 1 - Placement Setup and Speed

- With the implant attached to the driver tool, insert the implant into the prepared osteotomy using an implant placement speed of 20 rpm and a maximum insertion torque of 45 N-cm.
- If the implant does not seat at 45 N-cm, back the implant out of the osteotomy, place the implant back into the sterile vial, then refer to the dense bone protocols (Step 7B-E on page 22-23).

  * External irrigation may be used to minimize heating during this process.







Step 2 - Seating the Implant

- Drive the implant until fully seated and flush with the crest of the bone ridge.
- Do not exceed 45 N-cm.

Step 3 - Disengage Driver

- After placement, disengage the hand or contra-angle implant driver tool from the implant and fixture-mount by pulling off the tool in a straight upward direction.

Step 4 - Remove Fixture-Mount

- Using the offset wrench to keep the fixture-mount from turning, remove the retaining screw from the top of the fixture-mount using the 1.25mm hex hand driver. This will remove the fixture-mount from the implant.

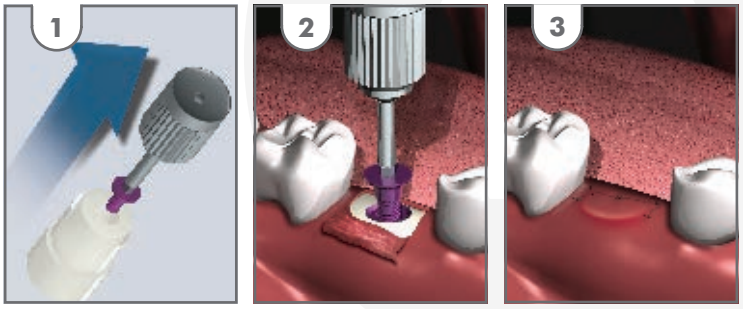
Two-Stage Healing Option
INTERNAL HEX Implant Placement Protocol

Step 1 - Loading the Implant Cover Screw

- The implant cover screw is located inside the bottom cap of the implant vial. Using one of the 1.25mm hex drivers, turn counter-clockwise to release the screw from the cap.

Step 2 - Placing the Implant Cover Screw

- Carefully place the implant cover screw into the implant and securely tighten into place.



Step 3 - Closing Tissue

- Suture the tissue over the cover screw using standard surgical protocols.

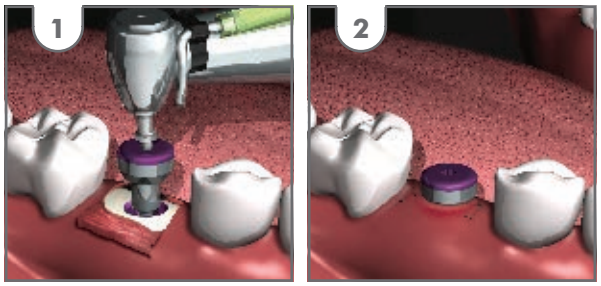
Single-Stage Healing Option
INTERNAL HEX Implant Placement Protocol

Step 1 - Healing Cap

- Using one of the 1.25mm hex drivers, place the appropriate healing cap into the implant using the recommended seating torque of 20 N-cm and secure tightly into place.

Step 2 - Closing Tissue

- Suture the tissue around the healing cap using standard surgical protocols.



Single-Stage Temporary Prepable Abutment Healing Option
INTERNAL HEX Implant Placement Protocol

Step 1 - Remove Fixture-Mount

- Using the offset wrench to keep the fixture-mount from turning, remove the retaining screw from the top of the fixture-mount using the 1.25mm hex hand driver. This will remove the fixture-mount from the implant.

Step 2 - Attach Fixture-Mount to Analog

- Attach fixture-mount to its corresponding color-coded implant analog.

Step 3 - Remove Fixture-Mount

- Using a circular saw remove the top colored section from fixture-mount through groove, creating a straight abutment.
- As required, prepare the temporary abutment to the appropriate occlusal height.

Step 4 - Attach the Temporary Abutment

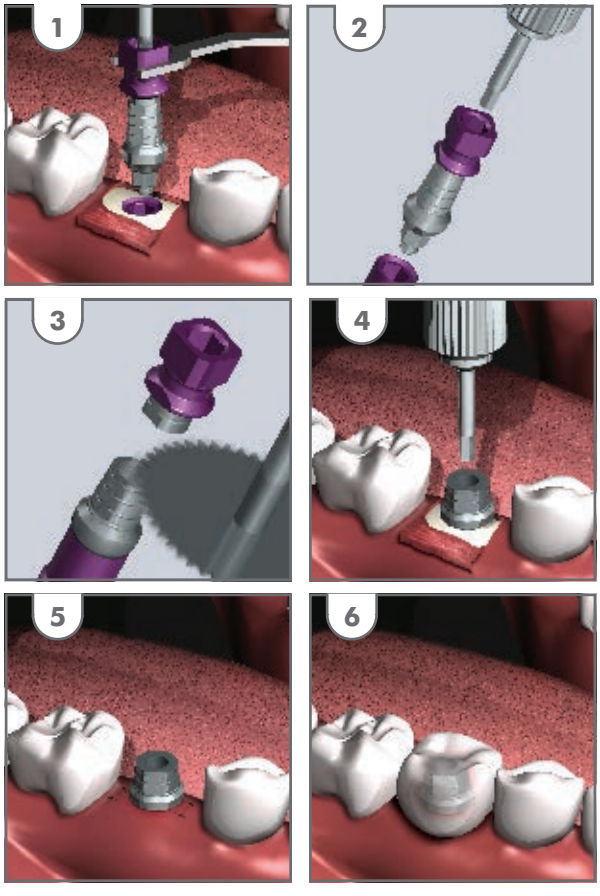
- Use a 1.25 driver to attach abutment to the implant and torque the temporary abutment to 30 N-cm.

Step 5 - Closing Tissue

- Suture the tissue around the temporary abutment using standard surgical protocols.

Step 6 - Placing the Temporary Crown

- After prepping closing the tissue around the temporary abutment, cement the temporary crown to the abutment.



infinity **INTERNAL HEX**
Prosthetic Protocol

INTERNAL HEX Implant Prosthetic Protocol
Implant Level Impression Technique - Closed Tray

Step 1 - Removing the Healing Cap or Cover Screw

- Using one of the 1.25mm hex drivers, remove the healing cap or cover screw from the implant.

  Note: In the case of bony overgrowth, use a curette to carefully clear the surface of the implant to provide direct access for transfer seating.

Step 2 - Place the Closed Tray Impression Transfer

- Use finger pressure to seat the closed tray transfer with transfer retaining screw using one of the 1.25mm hex drivers.
- A radiograph may be taken to verify proper seating of the closed tray impression transfer.

Step 3 - Impression Preparation

- Use cotton pellet or material to protect the head of the retaining screw. Fill the access hole to prevent impression material from entering.
- Using impression material, encase the transfer.

Step 4 - Take Impression

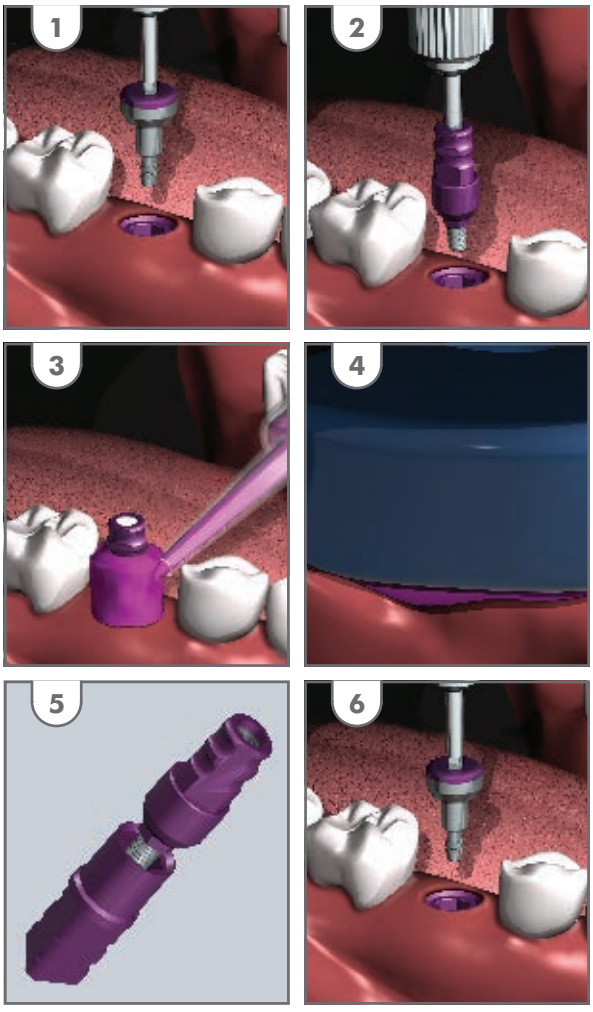
- Place the loaded impression tray into the mouth, apply pressure and allow the impression materials to set.

Step 5 - Removing Transfer

- Once impression tray is lifted, unblock the transfer retaining screw opening. Using the 1.25mm hex driver, remove the transfer.
- Remove the impression transfer and materials protecting the head of the retaining screw.
- Thread the impression transfer onto the corresponding implant analog.
- Send the complete implant analog assembly and the impression to dental laboratory for model fabrication.

Step 6 - Replace Healing Cap

- Re-seat the healing cap with a 1.25mm hex driver using the recommended seating torque of 20 N-cm.



INTERNAL HEX Implant Prosthetic Protocol
Implant Level Impression Technique - Open Tray

Step 1 - Removing the Healing Cap or Cover Screw

- Using one of the 1.25mm hex drivers, remove the healing cap or cover screw from the implant.

  Note: In the case of bony overgrowth, use a curette to carefully clear the surface of the implant to provide direct access for transfer seating.

Step 2 - Placing the Open Tray Impression Transfer

- Seat the open tray transfer with transfer retaining screw using the 1.25mm hex driver.

Step 3 - Prepare An Opening in Tray

- Mark and then cut a Ø5-10mm opening in the top of the impression tray at the exact area where the transfer will protrude.

Step 4 - Impression Preparation

- Using impression material, encase the transfer.

Step 5 - Take Impression

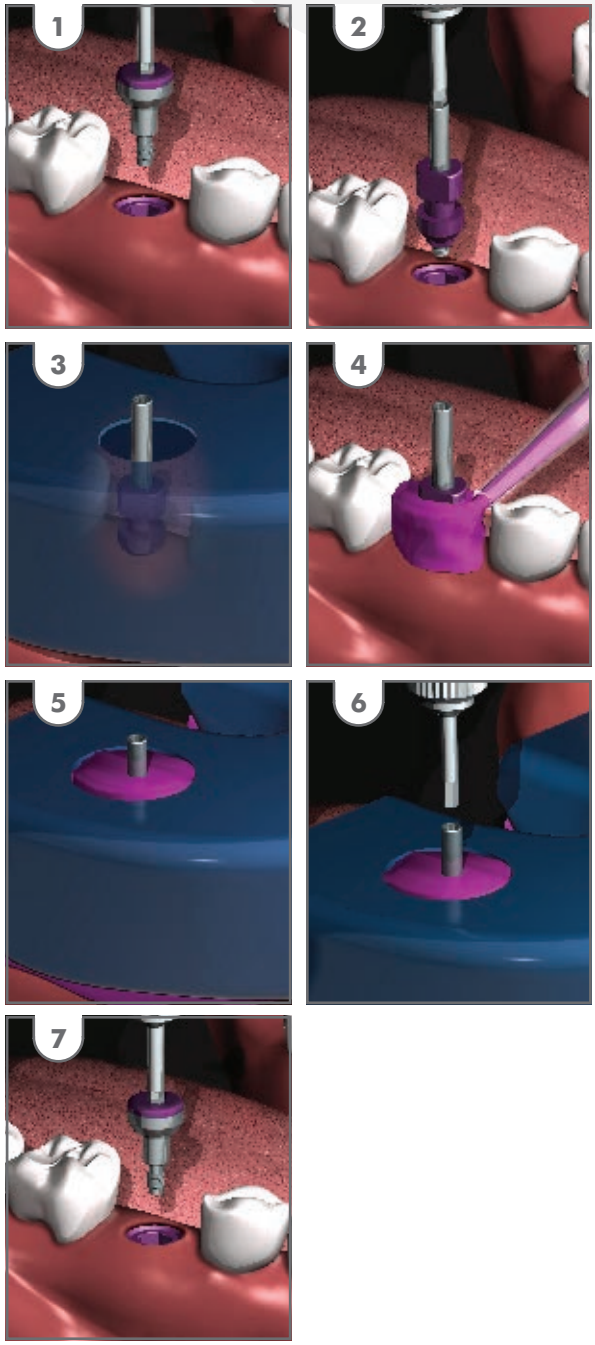
- Place the loaded impression tray into the mouth, apply pressure, and allow both impression materials to set.

Step 6 - Removing Tray and Transfer

- Using one of the 1.25mm hex driver, carefully remove just the retaining screw through the access hole, leaving the open tray transfer in the impression.
- Once impression has set, passively remove the impression with the remaining impression transfer embedded.
- Send the impression along with the laboratory components to the dental laboratory for model fabrication.

Step 7 - Replace Healing Cap

- Clean the implant area and healing cap.
- Re-seat the healing cap with a 1.25mm hex driver using the recommended seating torque of 20 N-cm.



INTERNAL HEX Implant Prosthetic Protocol
Prepable Abutment Impression Technique

Step 1 - Removing the Healing Cap or Cover Screw

- Using one of the 1.25mm hex drivers, remove the healing cap or cover screw from the implant.

  Note: In the case of bony overgrowth, use a curette to carefully clear the surface of the implant to provide direct access for final abutment seating.

Step 2 - Preparing the Prepable Abutment

- Seat the abutment with the included retaining screw and mark for preparations. Mark the abutment's final height and gingival contour.

Step 3 - Abutment Preparation

- Remove abutment and attach to implant analog and make any necessary adjustments.
- Re-seat the abutment with the included retaining screw and torque to 30 N-cm.

Step 4 - Impression Preparation

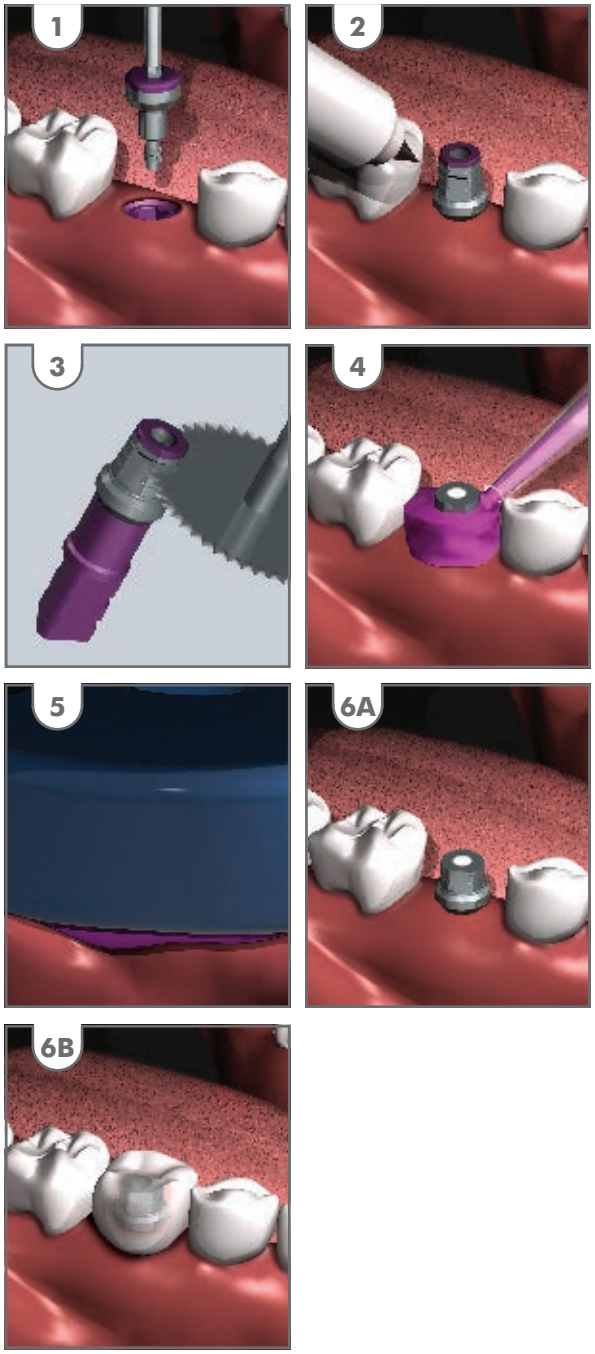
- Use cotton pellet or material to protect the head of the retaining screw. Fill the access hole to prevent impression material from entering the abutment.
- Using impression material, encase the abutment.

Step 5 - Take Impression

- Place the loaded impression tray into the mouth, apply pressure, and allow impression material to set.
- Send impression to laboratory.

Step 6A, 6B - Temporary Process

- A temporary crown can be made and cemented to the prepped abutment or left in place while the final prosthetic is being made.



Step 1 - Removing the Healing Cap or Cover Screw

- Using one of the 1.25mm hex drivers, remove the healing cap or cover screw from the implant.

  Note: In the case of bony overgrowth, use a curette to carefully clear the surface of the implant to provide direct access for transfer seating.

Step 2 - Placing the LOCATOR® Abutment

- Seat the LOCATOR abutment by hand using finger pressure.

Step 3A, 3B - Torque the LOCATOR® Abutment

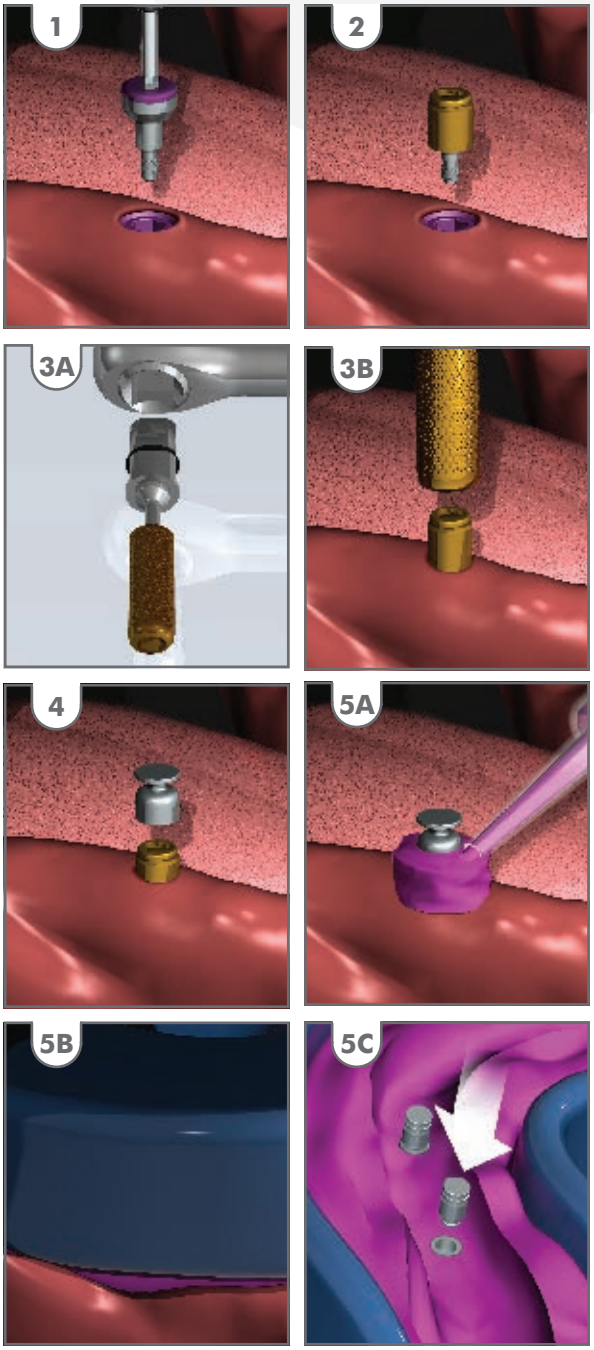
- Once seated on the implant, torque the LOCATOR Abutment to 30 N-cm using the brass end of the LOCATOR male installation tool with a standard 1.25mm hex driver.

Step 4 - Impression Preparation

- Place the LOCATOR Impression Transfers onto the abutments.

Step 5A, 5B, 5C - Take Impressions

- Using impression material, cover the transfers.
- Place the loaded impression tray into the mouth, apply pressure, and allow impression material to set.
- Remove impression and send along with laboratory components to the laboratory.



infinity **Implant Warranty**

The ACE Surgical implant warranty is designed to support our customers that place infinity Dental Implant Systems. This warranty will address all aspects of the procedure including the surgical and restorative components.

To make a warranty claim:

- Call our Customer Experience department to report complaint and obtain an implant warranty form.
- Identical or similar implant/product will be sent and invoiced.
- Return the contaminated implant packaged sterile with the completed implant warranty form.
- Upon receipt of the implant, ACE will credit the returned implant.

The warranty will cover:

A Same day spinners

B Post-placement, pre-loading implant failure

C Post-loading failure

D Post-loading failure using ACE restorative components on a different implant manufactured implant

A Same day spinners

ACE will replace any implant that for any reason could not be placed at the time of surgery.

B Post-placement, pre-loading implant failure*.

ACE will provide the following:
- An identical implant.
- A $150 product credit on any ACE regenerative products, sutures or instrumentation needed to graft the site.

C Post-loading failure

ACE will replace any implant that fails post-loading.
ACE will provide the following*:
- ACE restorative components.
- A $150 product credit on any ACE regenerative products, sutures or instrumentation needed to graft the site.
- One additional ACE implant and corresponding restorative components.

D Post-loading failure using ACE restorative components on a different implant manufactured implant*

ACE will provide the following:
- Replacement of the restorative components.
- A similar implant as to the one used in the surgery.

*Submit a radiograph showing the compromised site.

infinity
Dental Implant System

Please contact your ACE representative with any warranty related issues.

ACE Surgical Supply Co., Inc.
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Tel. 1-800-441-3100 Fax 1-800-583-3150
www.acesurgical.com

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