Infinite OPPORTUNITIES IN IMPLANTOLOGY

For 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.

infinity Dental Implant Systems allow you to place and restore our implants with confidence and without the added expense.

The infinity OCTAGON Dental Implant System is committed to delivering a functional and esthetic dental implant solution to both you and your patients.

infinity implants—infinitive innovation, endless opportunities in implantology.
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Introduction to infinity OCTAGON Implants

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

The implants are manufactured from grade 4 pure titanium and are available in tissue level and bone level versions. The surface in the endosteal section is sandblasted with large particles of corundum and acid-etched. The macro-roughness exhibits a roughness profile of 20 to 40μm with micro-roughness of 2 to 4μm, providing an optimal surface topography for osseointegration.

From a single tooth to a full arch restoration, infinity OCTAGON implants and prosthetics are easy to use and restore. The implant system is functionally identical at a price that makes sense for your practice.
OCTAGON Tissue Level Dental Implants

OCTAGON TISSUE LEVEL REGULAR PLATFORM (RP)

Ø 3.3mm  Ø 4.1mm  Ø 4.1mm

OCTAGON TISSUE LEVEL WIDE PLATFORM (WP)

Ø 4.8mm
**INTERNAL OCTAGON CONNECTION**

The infinity OCTAGON Tissue Level implants are connected to the prosthetic restoration via an 8º inner cone with additional rotation stop.

infinity OCTAGON Bone Level implants are connected to the prosthetic components via a 15º inner cone and internal grooves, whereby an octagonal geometry of the abutments secures the prosthetic components in position. The implant and abutment components are compatible with the leading octagon systems on the market.

Use your existing surgical instrumentation to place the OCTAGON implants or utilize the precision engineered tooling that comes standard with the infinity OCTAGON surgical kit.

**STRAIGHT & TAPERED**

The infinity OCTAGON Bone Level implants are designed STRAIGHT while the infinity OCTAGON Tissue Level Implants are available in either STRAIGHT or TAPERED Effect designs.

The TAPERED Effect Implant design (available as a Ø4.1mm Tissue Level Implant) is ideal for immediate (same day as extraction) and early implantation (6-8 weeks post extraction).

**A PERFECT CONNECTION**

The measurement of the microgap between implant and prosthetics is between 0.34 - 0.76 μm (shown in the SEM below with a 0.46 μm), resulting in a microgap of less than 1 μm and leaving a perfect connection between every implant and attachment.

**PURE TITANIUM**

OCTAGON implants are manufactured from grade 4 pure titanium.

**TEXTURED SURFACE**

The surfaces in the endosteal section are Sandblasted with Large particles of corundum (> 99% Al2O3 = aluminum oxide) and Acid-etched.

The macro-roughness exhibits a profile of 20 to 40 μm with micro-roughness of 2.0 to 4.0 μm.
LIFETIME WARRANTY
The ACE Surgical implant warranty program is designed to support all clinicians involved with the infinity Implant System. (See page 43 for details)

1.8 MM POLISHED COLLAR
The coronal section of the Tissue Level implant has a 1.8 mm polished collar. Due to its geometry, the implant design respects the biological width used in an extended range of indications.

Depending on the surgical evaluation, this type of implant can be placed transgingival, semigingival or subgingival thus providing optimal soft tissue management.

IMPLANT TRANSFER MOUNT
A titanium transfer mount and transfer screw is included and packaged sterile with the implant. The implant transfer mount is connected to the implant for secure implant placement and implant removal from the vial.

IMPLANT SUSPENSION CHAMBER
The suspension chamber securely supports the implant, which allows for easy removal once the cap has been removed.

COVER SCREW
Included with every implant inside the inner blister, below the vial.

STERILE PACKAGING
All implants and accompanying cover screws come packaged sterile. The package is labeled with easy to identify product information.

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

IMPLANT BOX
Implant style, size and platform specifications are clearly marked to distinguish the OCTAGON product.

INSTRUCTIONS
Every implant comes complete with instructions for use and implant package removal instructions.

PATIENT RECORD LABELS
Every implant is packaged complete with patient labels.
**OCTAGON BONE LEVEL**

Ø3.3mm Narrow Platform

- **Product No.**
  - 503308BL
  - 503310BL
  - 503312BL
  - 503314BL

- **Diameter**
  - Ø3.3mm

- **Length**
  - 8mm
  - 10mm
  - 12mm
  - 14mm

**NP IMPLANT COVER SCREW**

- 0.5mm H
- Included sterile with implant
- Product No. 5022013

- 0.0mm H
- Optional
- Product No. 5022014

---

**Narrow Platform Healing Abutments**

- Fits Ø3.3mm - Implants
- Uses OCTAGON Screwdrivers
- Recommended Torque 15 N-cm

- **Product No.**
  - 5022017
  - 5022018
  - 5022019
  - 5022020
  - 5022021
  - 5022022

- **Platform**
  - Narrow

- **Collar Width (CW)**
  - 3.6mm
  - 3.6mm
  - 3.6mm
  - 4.8mm
  - 4.8mm
  - 4.8mm

- **Collar Height (CH)**
  - 2.0mm
  - 3.5mm
  - 5.0mm
  - 2.0mm
  - 3.5mm
  - 5.0mm
OCTAGON BONE LEVEL

**Ø4.1mm Regular Platform**

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<td>Length</td>
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<td>10mm</td>
<td>12mm</td>
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RP IMPLANT COVER SCREW 0.5mm H
Included sterile with implant
5022099

RP IMPLANT COVER SCREW 0.0mm H
Optional
5022098

**Ø4.8mm Regular Platform**

<table>
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<th>504812BL</th>
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<td>10mm</td>
<td>12mm</td>
<td>14mm</td>
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RP IMPLANT COVER SCREW 0.5mm H
Included sterile with implant
5022099

RP IMPLANT COVER SCREW 0.0mm H
Optional
5022098

**Regular Platform Healing Abutments**

Fits Ø4.1mm - Implants and Ø4.8mm - Implants
- Uses OCTAGON Screwdrivers
- Recommended Torque 15 N-cm

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<td>5.0mm</td>
<td>5.0mm</td>
<td>6.5mm</td>
<td>6.5mm</td>
<td>6.5mm</td>
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<td>Collar Height (CH)</td>
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<td>4.0mm</td>
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<td>2.0mm</td>
<td>4.0mm</td>
<td>6.0mm</td>
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# Narrow Platform Straight and Angled Abutments

Fits Ø3.3mm Implants

## Impression Coping & Analog

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<td>Collar Width (CW)</td>
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<td>–</td>
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## Straight Abutments

- Recommended Torque 35 N-cm
- Includes basic abutment screw

<table>
<thead>
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<th>5022028</th>
<th>5022029</th>
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<td>0°</td>
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## Angled Abutments

- Recommended Torque 35 N-cm
- Includes basic abutment screw

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## Plastic Copings and Replacement Screws

Manufactured from grade 4 pure titanium

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<td>For Use With</td>
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<td>All NP Abutments</td>
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**OCTAGON BONE LEVEL**

**Regular Platform Straight and Angled Abutments**

Fits Ø4.1 and Ø4.8mm Implants

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**Straight Abutments**

- Recommended Torque 35 N-cm
- Includes basic abutment screw

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<td>Collar Height (CH)</td>
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**Angled Abutments**

- Recommended Torque 35 N-cm
- Includes basic abutment screw

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**Temporary Abutments**

- Recommended Torque 15 N-cm

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**Plastic Copings and Replacement Screws**

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<td>Crown</td>
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<td>Crown</td>
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**infinity OCTAGON**

Tissue Level Implants and Prosthetics

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**OCTAGON TISSUE LEVEL**

**Ø3.3mm Regular Platform**

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**RP IMPLANT COVER SCREW**

Included sterile with implant

5031154
OCTAGON TISSUE LEVEL

Ø4.1mm Regular Platform

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<td>Length</td>
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<td>10mm</td>
<td>12mm</td>
<td>14mm</td>
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Ø4.8mm Regular Platform

1.8mm Collar Height
1.25mm Pitch

Length

Major Ø4.1mm

Apex Ø3.5mm

RP IMPLANT COVER SCREW Included sterile with implant 5031154

OCTAGON TISSUE LEVEL

Ø4.1mm Regular Platform Tapered

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Ø4.8mm Regular Platform

1.8mm Collar Height
0.8mm Pitch

Length

Major Ø4.1mm

Apex Ø3.5mm

RP IMPLANT COVER SCREW Included sterile with implant 5031154
**OCTAGON TISSUE LEVEL**

#### 4.8mm Regular Platform

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<td>Length</td>
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<td>14mm</td>
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- Ø4.8mm Regular Platform
- 1.8mm Collar Height
- 1.25mm Pitch
- Major Ø4.8mm
- Apex Ø4.2mm

**RP IMPLANT COVER SCREW**
Included sterile with implant
5031154

#### 4.8mm Wide Platform

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<tr>
<td>Length</td>
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<td>12mm</td>
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- Ø6.5mm Regular Platform
- 1.8mm Collar Height (Polished Neck)
- 1.25mm Pitch
- Major Ø4.8mm
- Apex Ø4.2mm

**WP IMPLANT COVER SCREW**
Included sterile with implant
5093730

infinity OCTAGON Tissue Level implants
OCTAGON TISSUE LEVEL

**Regular Platform Healing Abutments**

Ø4.8mm Tissue Level
Regular Platform

- For use with RP and RPT Implants
- Uses OCTAGON Screwdrivers
- Recommended Seating Torque 15 N-cm

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**Wide Platform Healing Abutments**

Ø6.5mm Tissue Level
Wide Platform

- For use with WP Implants
- Uses OCTAGON Screwdrivers
- Recommended Seating Torque 15 N-cm

<table>
<thead>
<tr>
<th>Product No.</th>
<th>5093731</th>
<th>5093732</th>
<th>5093733</th>
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<tbody>
<tr>
<td>Platform</td>
<td>Ø6.5mm</td>
<td>Ø6.5mm</td>
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<tr>
<td>Collar Width</td>
<td>6.5mm</td>
<td>6.5mm</td>
<td>6.5mm</td>
</tr>
<tr>
<td>Collar Height</td>
<td>2.0mm</td>
<td>3.0mm</td>
<td>4.5mm</td>
</tr>
</tbody>
</table>
OCTAGON TISSUE LEVEL

Regular Platform Solid Abutments

Fits Ø3.3mm, Ø4.1mm, Ø4.1mm Tapered and Ø4.8mm Implants

### Solid Abutment Transfer Components

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Type</th>
<th>Color</th>
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</thead>
<tbody>
<tr>
<td>5055283</td>
<td>Impression Cap</td>
<td>for all Solid Abutments</td>
</tr>
<tr>
<td>5055288</td>
<td>Positioning Cylinder</td>
<td>Yellow</td>
</tr>
<tr>
<td>5055299</td>
<td>Positioning Cylinder</td>
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</tr>
<tr>
<td>5055394</td>
<td>Positioning Cylinder</td>
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</table>

### Solid Abutments

- Recommended seating torque 35 N-cm

Manufactured from grade 4 pure titanium

<table>
<thead>
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### Solid Abutment Analogs

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### Solid Abutment Plastic Copings

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<td>5055487</td>
<td>Crown</td>
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</table>
OCTAGON TISSUE LEVEL

Regular Platform Straight and Angled Abutments
Fits 3.3mm, 4.1mm, 4.1mm Tapered and 4.8mm Implants

Impression Copings & Analog

<table>
<thead>
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<td>Product Name</td>
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<td>Positioning Cylinder</td>
<td>Impression Cap (w/Guide Screw)</td>
<td>Implant Analog</td>
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<tr>
<td>Tray Type</td>
<td>Closed Tray</td>
<td>Closed Tray</td>
<td>Open Tray</td>
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Straight Abutment
- Recommended torque 35 N-cm

<table>
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<td>Bridge/Bar</td>
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<tr>
<td>Type</td>
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<td>Plastic</td>
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Angled Abutments
- Recommended torque 35 N-cm

Manufactured from grade 4 pure titanium

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<td>RP Plastic Shoulder</td>
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<tr>
<td>Type</td>
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<td>B 15º (see below)</td>
<td>A 15º (see below)</td>
<td>B 15º (see below)</td>
<td>A 20º (see below)</td>
<td>B 20º (see below)</td>
<td>For 15º / 20º Angled Abutments</td>
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<td>VERSION B:</td>
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Screw Retained Abutment
- Recommended torque 35 N-cm

<table>
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<tr>
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<td>Bridge</td>
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<tr>
<td>Type</td>
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RP OCCLUSAL SCREW
Required for All Screw Retained Abutments

5031160
OCTAGON TISSUE LEVEL

Regular Platform Zest LOCATOR® Abutments

Fits ø3.3mm, ø4.1 Straight/Tapered and ø4.8mm Regular Platform Implants

- Recommended seating torque 35 N-cm

<table>
<thead>
<tr>
<th>Product No.</th>
<th>206-8621</th>
<th>206-8622</th>
<th>206-8623</th>
<th>206-8624</th>
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<tbody>
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<tr>
<td>Collar Height</td>
<td>2.0mm</td>
<td>3.05mm</td>
<td>4.0mm</td>
<td>5.0mm</td>
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</table>

Zest LOCATOR® Components

Replacement Male - Sets

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
- Packages of 4

<table>
<thead>
<tr>
<th>Color</th>
<th>CLEAR</th>
<th>PINK</th>
<th>BLUE</th>
<th>GREEN</th>
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<tr>
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<td>206-8524</td>
<td>206-8527</td>
<td>206-8529</td>
<td>206-8547</td>
<td>206-8915</td>
<td>206-8548</td>
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<tr>
<td>Retention</td>
<td>Standard</td>
<td>Light</td>
<td>Extra Light</td>
<td>Standard</td>
<td>Light</td>
<td>Extra Light</td>
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<tr>
<td>Lbs.</td>
<td>5 lbs.</td>
<td>3 lbs.</td>
<td>1.5 lbs.</td>
<td>3-4 lbs.</td>
<td>2 lbs.</td>
<td>.5-1.5 lbs.</td>
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<td>1361</td>
<td>680</td>
<td>1361-1814</td>
<td>907</td>
<td>226-680</td>
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</table>

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® Instruments

Chairside Denture Prep & Polish Kit

- 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)

A CHAIRSIDE Recess Bur 206-09576
Precise Recess Preparation:
Used to create a space in the denture appropriately sized to provide the necessary clearance for the proper luting of ZEST LOCATOR® Denture Attachment Housings (Denture Caps).

B CHAIRSIDE Undercut Bur 206-09577
Optimized Housing Retention:
Used to create an undercut in the recess which will enhance the mechanical retention of the Denture Attachment Housings.

C CHAIRSIDE Vent Hole Bur 206-09578
Simple Vent-Hole Creation:
Used to make a hole from the bottom of the recess through the lingual wall of the denture, which will enable excess Attachment Acrylic to flow from the prosthesis. It also increases visibility of the Denture Attachment Housings within the recess providing predictable attachment pickup.

D CHAIRSIDE Trim Bur 206-09579
Efficient Post-Pickup Prosthesis Adjustment:
The CHAIRSIDE Trim Bur removes excess Attachment Acrylic and makes modifications to the prosthesis as needed after the Denture Attachment Housings have fully cured.

E CHAIRSIDE Grind Bur 206-09583
Efficient Post-Pickup Prosthesis Adjustment:
The CHAIRSIDE Grind Bur is used to remove excess Attachment Acrylic around the Denture Attachment Housings, if needed.

F CHAIRSIDE Polisher 206-09580
Finishing and Polishing:
Use the CHAIRSIDE Polisher to smooth the Attachment Acrylic in and around the prosthesis.

Zest LOCATOR® Driver and Locator® Core Tool

Zest LOCATOR® Contra Angle Driver
206-8914
Zest LOCATOR® Core Tool Installation / Removal
206-8393
1 end for hand installing LOCATOR Abutments
2 end for changing the retention males
OCTAGON TISSUE LEVEL

**Regular Platform Ball Abutments and Components**

Fits Ø3.3mm, Ø4.1mm, Ø4.1mm Tapered and Ø4.8mm Implants

**Ball Abutment & Attachments**
- Recommended seating torque 35 N-cm

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Height</th>
<th>Adapter for Ball Abutment</th>
<th>Matrix for Ball Abutment Includes O-Rings</th>
<th>Ball Abutment Analog</th>
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<tbody>
<tr>
<td>5038087</td>
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<table>
<thead>
<tr>
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<th>Retention</th>
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<tr>
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<td>Red O-Ring</td>
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<td>5089612</td>
<td>Blue O-Ring</td>
<td>2 lbs</td>
</tr>
<tr>
<td>5089613</td>
<td>Black O-Ring</td>
<td>3 lbs</td>
</tr>
</tbody>
</table>

**Titanium Abutments**

Fits Ø3.3mm, Ø4.1mm, Ø4.1mm Tapered and Ø4.8mm Implants

**Titanium Abutment**
- Recommended torque 35 N-cm
- Titanium Base

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Height</th>
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<tbody>
<tr>
<td>5057041</td>
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</table>

**RP BASIC SCREW**
- Included with Digital Abutment
- 5057042
## OCTAGON TISSUE LEVEL

### Wide Platform Straight and Angled Abutments

Fits 4.8mm Wide Platform Implants

#### Impression Coping & Analog

<table>
<thead>
<tr>
<th>Product No.</th>
<th>5093734</th>
<th>5093735</th>
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<tbody>
<tr>
<td>Product Name</td>
<td>Impression Cap (w/Guide Screw)</td>
<td>Implant Analog</td>
</tr>
<tr>
<td>Tray Type</td>
<td>Open Tray</td>
<td>–</td>
</tr>
</tbody>
</table>

#### Straight Abutment

- Recommended torque 35 N-cm

<table>
<thead>
<tr>
<th>Manufactured from grade 4 pure titanium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product No.</td>
</tr>
<tr>
<td>Height</td>
</tr>
<tr>
<td>Type</td>
</tr>
</tbody>
</table>

#### Angled Abutments

- Recommended torque 35 N-cm

<table>
<thead>
<tr>
<th>Manufactured from grade 4 pure titanium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product No.</td>
</tr>
<tr>
<td>Height</td>
</tr>
<tr>
<td>Type</td>
</tr>
</tbody>
</table>

**VERSION A:** Angled against the vertex of the Octagon

**VERSION B:** Angled against one of the flat sides of the Octagon

#### Screw Retained Abutment

- Recommended torque 35 N-cm

<table>
<thead>
<tr>
<th>Manufactured from grade 4 pure titanium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product No.</td>
</tr>
<tr>
<td>Height</td>
</tr>
<tr>
<td>Type</td>
</tr>
</tbody>
</table>

RP OCCLUSAL SCREW Required for All Screw Retained Abutments 5031160
infinity OCTAGON
Surgical Drills, Drivers, and Kit
CERTIFIED PRECISION
Manufactured under strictly controlled German machining guidelines and certified to ISO 13485 regulations.

BUILT TO LAST
Manufactured from hardened, high strength, corrosive-resistant, surgical grade stainless steel. Engineered for multiple use.

THREE CUTTING FLUTES
Three (3) fluted twist drills allow for an easy on-center drilling process.

LASER MARKED
Precise laser markings allow for accurate identification for drill depth to create osteotomy.

PROVEN DESIGN
Proven twist drill geometry allows efficient bone chip removal.
Caution: The surgical twist drills are approximately 0.5mm longer in apical length than what is described.

Note: Instruments shown are drilling for a 12mm long implant. Adjust accordingly for other implant depths.
**OCTAGON Bone Level Drilling Sequences**

**4.1mm Regular Platform Implants**

- Ø 2.2mm Round Bur 5031061
- Ø 2.2mm Twist Drill 5038121
- Ø 2.0mm Parallel Pin 5079575
- Ø 2.2mm Twist Drill 5038121
- Ø 2.8mm Twist Drill 5038149
- Ø 2.0mm Depth Gauge 5064557
- Ø 3.5mm Twist Drill 5038135
- Ø 3.0mm Depth Gauge 5064556
- Ø 4.1mm Profile Drill 5022111
- Ø 4.1mm Bone Tap 5095264

**4.8mm Regular Platform Implants**

- Ø 2.2mm Round Bur 5031061
- Ø 2.2mm Twist Drill 5038121
- Ø 3.0mm Parallel Pin 5079575
- Ø 2.2mm Twist Drill 5038121
- Ø 2.8mm Twist Drill 5038149
- Ø 2.0mm Depth Gauge 5064557
- Ø 3.5mm Twist Drill 5038135
- Ø 3.0mm Depth Gauge 5064556
- Ø 4.2mm Profile Drill 5022114
- Ø 4.8mm Profile Bone Tap 5095269

**Caution:** The surgical twist drills are approximately 0.5mm longer in apical length than what is described.

**Note:** Instruments shown are drilling for a 12mm long implant. Adjust accordingly for other implant depths.
Caution: The surgical twist drills are approximately 0.5mm longer in apical length than what is described.

Note: Instruments shown are drilling for a 12mm long implant. Adjust accordingly for other implant depths.
**Caution:** The surgical twist drills are approximately 0.5mm longer in apical length than what is described.

**Note:** Instruments shown are drilling for a 12mm long implant. Adjust accordingly for other implant depths.

* 4.8mm Profile Drill is only required for Wide Platform Implants
**OCTAGON BONE LEVEL IMPLANT PLACEMENT PROTOCOL**

**Implant Site Preparation**

Site Preparation of the Bone Implant Bed (Example shown for Ø4.1mm x 12mm length)

---

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

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

**Step 3 - Marking the Implant Site**
- Using a handpiece at a maximum speed of 800rpm and copious irrigation, mark the initial osteotomy using the Ø2.2mm round bur.

**Step 4 - Drilling the Pilot Hole**
- Drill the initial pilot osteotomy using the Ø2.2mm twist drill at a maximum speed of 800rpm.
- Drill to the 6mm laser marking.

**Step 5 - Check Parallel Alignment**
- Confirm the appropriate angle with the Ø2.0mm Alignment Pin.
- Osteotomy corrections can be made during the following drilling step.

**Step 6 - Drill to Implant Depth**
- Using the same Ø2.2mm twist drill at a maximum speed of 800rpm, drill to the final implant depth.

---

*Note: Short Drills do not include 14 or 16mm markings.*

Continued on following page.
Implant Site Preparation

Step 7 - Drill for all Implant Diameters
Select the Ø2.8mm twist drill. Drill to appropriate implant length at a maximum speed of 600rpm.

Step 8 - Check Depth
Confirm the appropriate drill depth with the Ø2.0mm Depth Gauge.

NOTE: If placing a Ø3.3mm implant, this is the final drilling step. Proceed to step 12.

Step 9 - Drill for Ø4.1mm and Ø4.8mm Implants
Select the Ø3.5mm twist drill. Drill to appropriate implant length at a maximum speed of 500rpm.

NOTE: If placing a Ø4.1mm implant, this is the final twist drilling step. Proceed to step 11.

Step 10 - Drill for Ø4.8mm Implants
Select the Ø4.2mm twist drill. Drill to appropriate implant length at a maximum speed of 400rpm.

NOTE: If placing a Ø4.8mm RP implant, this is the final twist drilling step.

Step 11 - Check Depth
Confirm the appropriate drill depth with the Ø3.0mm Depth Gauge.

Step 12 - Profile Drill

NOTE: This step is recommended independent of bone quality.
Select the corresponding profile drill for the implant being installed and drill to the score line of the profile drill at a maximum speed of 400rpm.

Step 13 - Bone Tap
When drilling in dense bone, select the corresponding bone tap for the implant being installed and tap to the appropriate implant length.

<table>
<thead>
<tr>
<th>BONE TAPPING SUGGESTIONS PER BONE DENSITY</th>
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<tbody>
<tr>
<td>BONE CLASS</td>
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<tr>
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</tr>
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<td>TYPE 2</td>
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<td>TYPE 3</td>
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<tr>
<td>TYPE 4</td>
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</tbody>
</table>
OCTAGON BONE LEVEL IMPLANT PLACEMENT PROTOCOL

Loading Implant Onto Driver

Step 1 - Implant Packaging
- Remove the OCTAGON Dental Implant 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 - Choose the Driver
- Pick up the OCTAGON Dental Implant body from the vial by using either the ratchet or contra-angle driver tool.

Step 3A - Loading the Driver
- Carefully engage the transfer mount on the implant with the driver tool. Once fully engaged, unscrew the implant from the vial by rotating counterclockwise.

Step 3B - Loading the Driver
- Carefully lift the implant out of the vial.
- Use caution when bringing implant to the surgical site.

Placing Implant Into Osteotomy

Step 1 - Placement Setup and Speed*
- With the OCTAGON Dental Implant attached to the driver tool, insert the implant into the prepared osteotomy using an implant placement speed of 15rpm and a maximum insertion torque of 35 N-cm.
- If the implant does not seat at 35 N-cm, back the implant out of the osteotomy, place the implant back into the sterile vial, then refer to the dense bone site preparation protocol (see page 29 - Step 13).

Step 2 - Seating the Implant
- Drive the implant until fully seated.
  Do not exceed 35 N-cm.
- CAUTION:
  Avoid using reverse rotations (counterclockwise) to correct vertical position, as this can decrease primary stability.

Step 3 - Disengaging Implant Driver
- After placement, disengage the hand or contra-angle implant driver tool from the implant by pulling off the tool in a straight upward direction.

*External irrigation may be used to minimize heating during this process.
Removing Fixture-Mount

Step 1 and 2 - Loosening the Fixture-Mount

- Use the holding key to engage the hexagon of the fixture-mount to keep the implant from turning.
- Use the ratchet or contra-angle driver tool to turn screw counterclockwise to release fixture-mount from the implant.

Step 3 - Disengaging Fixture-Mount

- Disengage the fixture-mount from the implant by pulling off the driver tool and fixture-mount in a straight upward direction.
OCTAGON BONE LEVEL IMPLANT PLACEMENT PROTOCOL

Single-Stage Healing Option

Step 1 - Healing Abutment
- Using one of the OCTAGON screwdrivers, place the appropriate healing abutment into the implant using the recommended seating torque of 15 N-cm and secure tightly into place.

Step 2 - Closing Tissue
- Suture the tissue around the healing abutment using standard surgical protocols.

Two-Stage Healing Option

Step 1 and 2 - Cover Screw
- Using one of the OCTAGON screwdrivers, place the appropriate cover screw into the implant using the recommended seating torque of 15 N-cm and secure tightly into place.

Step 3 - Closing Tissue
- Suture the tissue over the cover screw using standard surgical protocols.
Step 1 - Removing the Healing Abutment or Cover Screw
- Using one of the hand screwdrivers, remove the healing abutment or cover screw from the implant.

Step 2 and 3 - Placing the Open-Tray Impression Coping
- Seat the open-tray impression coping with retaining screw using one of the hand screwdrivers.

Step 4 - 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 impression coping will protrude.

Step 5 - Impression Preparation
- Using impression material, encase the impression coping.

Step 6 - Take Impression
- Place the loaded impression tray into the mouth, apply pressure, and allow impression material to set.

Step 7 - Removing Tray and Impression Coping
- Using one of the hand screwdrivers, carefully remove just the retaining screw through the access hole, leaving the open-tray coping in the impression.
- Once impression has set, passively remove the impression with the remaining impression coping embedded.
- Send the impression along with the laboratory components to the dental laboratory for model fabrication.

Step 8 - Replace Healing Abutment
- Clean the implant area and healing abutment.
- Re-seat the healing abutment with a hand screwdriver using the recommended seating torque of 15 N-cm.
Step 1 - Removing the Healing Abutment

- Using one of the hand screwdrivers, remove the healing abutment 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 - Inserting the Straight Abutment

- Seat the abutment with the included retaining screw and torque it to 30 N-cm.

Step 3 - Impression Preparation

- Use a cotton pellet or like 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 4 - Take Impression

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

Step 5A, 5B - 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 - Determine Tissue Depth
• Prior to drilling, use a tissue probe to determine the soft tissue depth.

Step 2 – Preparing the Surgical Site
• Make a mesiodistal incision along the buccal side of the alveolar crest through the mucoperiosteum and attached gingiva to the bone and reflect the flap.

Step 3 - Marking the Implant Site
• Using a handpiece at a maximum speed of 800rpm and copious irrigation, mark the initial osteotomy using the Ø2.2mm round bur.

Step 4 - Drilling the Pilot Hole
• Drill the initial pilot osteotomy using the Ø2.2mm twist drill at a maximum speed of 800rpm.
• Drill to the 6mm laser marking.

Step 5 - Check Parallel Alignment
• Confirm the appropriate angle with the Ø2.0mm Alignment Pin.
• Osteotomy corrections can be made during the following drilling step.

Step 6 - Drill to Implant Depth
• Using the same Ø2.2mm twist drill at a maximum speed of 800rpm, drill to the final implant depth.

Continued on following page.
Step 7 - Drill for all Implant Diameters
Select the Ø2.8mm twist drill. Drill to appropriate implant length at a maximum speed of 600rpm.

**NOTE:** If placing a Ø3.3mm implant, this is the final drilling step. Proceed to step 11.

Step 8 - Check Depth
Confirm the appropriate drill depth with the Ø2.0mm Depth Gauge.

Step 9 - Drill for Ø4.1mm and Ø4.8mm Implants
Select the Ø3.5mm twist drill. Drill to appropriate implant length at a maximum speed of 500rpm.

**NOTE:** If placing a Ø4.1mm implant, this is the final twist drilling step. Proceed to step 11.

Step 10 - Drill for Ø4.8mm Implants
Select the Ø4.2mm twist drill. Drill to appropriate implant length at a maximum speed of 400rpm.

**NOTE:** If placing a Ø4.8mm implant, this is the final twist drilling step.

Step 11 - Check Depth
Confirm the appropriate drill depth with the Ø3.0mm Depth Gauge.

Step 12 - Profile Drill
Select the corresponding profile drill for the implant being installed and drill to the score line of the profile drill at a maximum speed of 400rpm.

**NOTE:** If placing a Ø4.1mm Regular Platform Tapered (RPT) Tissue Level implant be sure to use the specific tapered design (TD) profile drill.

**NOTE:** If placing a Ø4.8mm Wide Platform (WP) Tissue Level implant, be sure to use the specific wide platform (WP) profile drill.

**NOTE:** If placing a Ø4.8mm Regular Platform (RP) Tissue Level implant, NO profile drill is required.

Step 13 - Bone Tap
When drilling in dense bone, select the corresponding bone tap for the implant being installed and tap to the appropriate implant length.

<table>
<thead>
<tr>
<th>BONE TAPPING SUGGESTIONS PER BONE DENSITY</th>
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<tbody>
<tr>
<td><strong>BONE CLASS</strong></td>
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<tr>
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<td>TYPE 3</td>
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<td>TYPE 4</td>
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</table>
Step 1 - Implant Packaging
• Remove the OCTAGON Dental Implant 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 - Choose the Driver
• Pick up the OCTAGON Dental Implant body from the vial by using either the ratchet or contra-angle driver tool.

Step 3A - Loading the Driver
• Carefully engage the transfer mount on the implant with the driver tool. Once fully engaged, unscrew the implant from the vial by rotating counterclockwise.

Step 3B - Loading the Driver
• Carefully lift the implant out of the vial.
• Use caution when bringing implant to the surgical site.

Step 1 - Placement Setup and Speed*
• With the OCTAGON Dental Implant attached to the driver tool, insert the implant into the prepared osteotomy using an implant placement speed of 15rpm and a maximum insertion torque of 35 N-cm.

Step 2 - Seating the Implant - Bone Level
• Drive the implant until fully seated, leaving the bottom of the polished collar flush with the crest of the bone ridge.
• Drive the implant until fully seated, leaving the bottom of the polished collar flush with the crest of the bone ridge. Do not exceed 35 N-cm.
• CAUTION: Avoid using reverse rotations (counterclockwise) to correct vertical position, as this can decrease primary stability.

Step 3 - Disengaging Implant Driver
• After placement, disengage the hand or contra-angle implant driver tool from the implant by pulling off the tool in a straight upward direction.

*External irrigation may be used to minimize heating during this process.
Step 1 and 2 - Healing Abutment
• Using one of the OCTAGON screwdrivers, place the appropriate healing abutment into the implant using the recommended seating torque of 15 N-cm and secure tightly into place.

Step 3A - Closing Tissue - Bone Level Implants
• Suture the tissue over the healing abutment using standard surgical protocols.

Step 3B - Closing Tissue - Tissue Level Implants
• Suture the tissue around the healing abutment using standard surgical protocols.

Example shown is a Tissue Level implant but is the same as the Bone Level.
OCTAGON TISSUE LEVEL IMPLANT PROSTHETIC PROTOCOL

Solid Abutment

Step 1 - Removing the Healing Abutment or Cover Screw
- Using one of the OCTAGON screwdrivers, remove the healing abutment or cover screw from the implant.

Step 2 - Seating Solid Abutment
- Seat the solid abutment with one of the solid abutment drivers.
- Place torque-wrench over the solid abutment driver and torque the solid abutment into the implant at 35 N-cm.

Step 3 - Placement of Impression Cap
- Push the impression cap over the solid abutment, and onto the implant shoulder, until it snaps into place.
- Check if impression cap is seated correctly by gently turning it on the implant. Impression cap should rotate smoothly on the implant.

Step 4 - Inserting Positioning Cylinder
- Align the flat side of the appropriate positioning cylinder with the flat side of the abutment.
- Push down the positioning cylinder over the abutment and through the impression cap.
- Make sure the positioning cylinder is flat and flush against the impression cap, leaving no gap.

Step 5 - Impression Preparation
- Using impression material, encase the impression cap, positioning cylinder and solid abutment.

Step 6 - Take Impression
- Place the loaded impression tray into the mouth, apply pressure, and allow impression material to set.
- Send impression to laboratory.

Step 7 - Temporary Process
- A temporary crown can be made and cemented to the abutment or left in place while the final prosthetic is being made.
Step 1 - Removing the Healing Abutment or Cover Screw

• Using one of the OCTAGON screwdrivers, remove the healing abutment or cover screw from the implant.

Step 2 - Placement of Impression Cap

• Push the impression cap onto the implant shoulder, until it snaps into place.

• Check if impression cap is seated correctly by gently turning it on the implant. Impression cap should rotate smoothly on the implant.

Step 3 and 4 - Inserting Positioning Cylinder

• Push down the positioning cylinder through the impression cap.

• Make sure the positioning cylinder is flat and flush against the impression cap, leaving no gap.

Step 5 - Impression Preparation

• Using impression material, encase the impression cap and position cylinder.

Step 6 - Take Impression

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

• Send impression to laboratory.

Step 7 - Replace Healing Abutment

• Clean the implant area and healing abutment.

• Re-seat the healing abutment with a hand screwdriver using the recommended seating torque of 15 N-cm.
Step 1 - Removing the Healing Abutment or Cover Screw
• Using one of the hand screwdrivers, remove the healing abutment or cover screw from the implant.

Step 2 and 3 - Placing the Open-Tray Impression Coping
• Seat the open-tray impression coping with retaining screw using one of the hand screwdrivers.

Step 4 - Prepare An Opening in Tray
• Mark the impression tray at the exact area where the impression coping will protrude and cut a Ø5-10mm opening.

Step 5 - Impression Preparation
• Using impression material, encase the impression coping.

Step 6 - Take Impression
• Place the loaded impression tray into the mouth, apply pressure, and allow impression material to set.

Step 7 - Removing Tray and Impression Coping
• Using one of the hand screwdrivers, carefully remove just the retaining screw through the access hole, leaving the open tray coping in the impression.
• Once impression has set, passively remove the impression with the remaining impression coping embedded.
• Send the impression along with the laboratory components to the dental laboratory for model fabrication.

Step 8 - Replace Healing Abutment
• Clean the implant area and healing abutment.
• Re-seat the healing abutment with a hand screwdriver using the recommended seating torque of 15 N-cm.
Step 1 - Removing the Healing Abutment or Cover Screw
- Using one of the hand screwdrivers, remove the healing abutment or cover screw from the implant.

Step 2 - Placing the LOCATOR® Abutment
- Seat the LOCATOR Abutment by hand using finger pressure.

Step 3 - Torque the LOCATOR® Abutment
- Once seated on the implant, torque the LOCATOR abutment to 30 N-cm using the LOCATOR Torque Wrench Driver (sold separately, part # 206-8914).

Step 4 - Impression Preparation
- Place the LOCATOR impression copings onto the abutments.

Step 5A, 5B, 5C - Take Impressions
- Using impression material, cover the impression copings.
- 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 DENTAL IMPLANT

Warranty

The ACE Surgical Implant Warranty is designed to support our customers who place infinity Dental Implants and prosthetic products. This warranty addresses all aspects of the surgical procedure as long as either an infinity Implant or restorative component was used in conjunction with the failed dental implant.

The infinity Dental Implant Systems Warranty covers:

**Same Day Spinners**
ACE Surgical will replace any infinity Dental Implant that for any reason, could not be placed at the time of surgery.

**Post-Placement, Pre-Loading Implant Failures**
- Replaced with an identical infinity Dental Implant
- You will be issued a $150 product credit to be used to purchase any ACE regenerative product, sutures or instrumentation required to graft the implant site.

**Post-Loading Failures**
- ACE Surgical will replace any implant that fails post-loading.
- You will be issued a $150 product credit to be used to purchase any ACE regenerative product, sutures or instrumentation required to graft the implant site.
- One additional infinity Dental Implant and corresponding restorative components.

**Post-loading failure using any infinity restorative component on another manufacturers’ matching configured implant**
- ACE Surgical will replace the restorative components.
- ACE Surgical will replace the implant with a matching configured infinity Dental Implant.

**STERILE PRODUCT RETURN POLICY**
Unopened sterile products must be returned to ACE Surgical within 30 days of the purchase date. A 20% restocking fee will be applied to unopened merchandise returned after the 30 day purchase period.

**MAKING A WARRANTY CLAIM**
1. Call our Customer Experience department to report a complaint and obtain an Implant Warranty Form.
2. Complete the Implant Warranty Form and follow all instructions included.
3. ACE will send you a replacement implant or prosthetic for which you will be temporarily invoiced.
4. All products must be decontaminated before returning them to ACE Surgical.
5. It is required to submit a radiograph of the compromised site, the completed Implant Warranty Form and the decontaminated product(s) to ACE Surgical.
6. Upon receipt of the implant, radiographs and Implant Warranty Form, ACE will credit the implant and prosthetic replacements.

Please contact your infinity Dental Implant representative with any warranty related questions.

**infinity Dental Implant Systems**
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Brockton, MA 02301 - USA
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Fax 1-800-583-3150
www.acesurgical.com
BUILT TO EXCITE YOUR REFERRALS. PRICED TO EXCITE YOUR PATIENTS.

infinity Dental Implant Systems are built to respect the relationship between your practice and your referring dentists. We understand the importance of delivering a truly compatible solution for your entire clinical network without having to over-pay for it. From surgical placement to final restoration, you can be assured that every infinity Dental Implant System will deliver quality, compatibility, and value to your implant practice.

To learn more, visit our website www.acesurgical.com or call to speak with one of our implant specialists at 800.441.3100.
Most dental practices strive to save money. Last year, practices just like yours put thousands of dollars in savings back to work for them—through our valuable programs, special promotions, free shipping and members only discounts. Qualified program members saved an average of $5,500 in 2015.

With the ACE+LOYALTY PROGRAM, the savings are automatically awarded. To learn more about the program or to enroll, visit our website at www.acesurgical.com/ace-plus.