Caution: U.S. federal law restricts this device to sale by, or on the order of, a licensed dentist or physician.

General Information
The Inclusive Dental Implant System consists of dental implants, prosthetic components, surgical instrumentation, and related accessories packaged under the Inclusive brand name for use by qualified, licensed clinicians and laboratory technicians fully trained in their application. Inclusive devices may be associated with one or more of the following product families:

- Inclusive® Tapered Implant System
- Inclusive® Mini Implant System
- Inclusive® Prosthetic Components (compatible with various implant systems and platform sizes)

For specific product identification and contents, please refer to individual product labels and the following catalogs:

- Inclusive Dental Implant System Product Catalog (Document No. 3019958)
- Inclusive Prosthetic Components Product Catalog (Document No. 3008614)

For detailed information on the specifications and intended use of a particular product, please refer to the following user manuals:

- Inclusive Dental Implant System Surgical Manual (Document No. 3019960)
- Inclusive Prosthetic Components Restorative Manual (Document No. 3021302)

Disclaimer of Liability
The guidelines presented herein are not adequate to allow inexperienced clinicians to administer professional implant treatment or prosthetic dentistry, and are not intended to substitute for formal clinical or laboratory training. Inclusive devices should only be used by individuals with training and experience specific to their clinically accepted application. PrismaticDentalCraft, Inc. is not liable for damages resulting from treatment outside of our control. The responsibility rests with the provider.

DENTAL IMPLANTS

Description
Inclusive dental implants are endosseous devices manufactured from titanium alloy. They are compatible with the prosthetic components and surgical instrumentation of the Inclusive Dental Implant System.

Indications for Use
Tapered Implants
Inclusive Tapered Implants are indicated for use in maxillary and mandibular partially or fully edentulous cases, to support single, multiple-unit, and overdenture restorations. The implants are to be used for immediate loading only in the presence of primary stability and appropriate occlusal loading.

Mini Implants
Inclusive Mini Implants are self-tapping threaded titanium screws indicated for long-term applications. Inclusive Mini Implants may also be used for provisional applications. These devices will allow immediate loading and long-term stabilization of dentures and provisional stabilization of dentures while standard implants heal. To be used for immediate loading only in the presence of primary stability and appropriate occlusal loading.

Contraindications
Inclusive dental implants should not be placed in patients discovered to be medically unfit for the intended treatment. Prior to clinical intervention, prospective patients must be thoroughly evaluated for all known risk factors and conditions related to oral surgical procedures and subsequent healing. Contraindications include but are not limited to: vascular conditions, uncontrolled diabetes, clotting disorders, antiagulant therapy, metabolic bone disease, chemotherapy or radiation therapy, chronic periodontal inflammation, insufficient soft tissue coverage, metabolic or systemic disorders associated with wound and/or bone healing, use of pharmaceuticals that inhibit or alter natural bone remodeling, any disorders which inhibit a patient’s ability to maintain adequate daily oral hygiene, uncontrolled parafunctional habits, insufficient height and/or width of bone, and insufficient interarch space. Treatment of children is not recommended until growth is finished and epiphyseal closure has occurred. Inclusive Mini Implants are not indicated for abutment or crown restorations.

Warnings
Do not reuse Inclusive dental implants. The reuse of such device on another patient is not recommended due to the risks of cross-contamination or re-infection. Inclusive dental implants may only be used for their intended purpose in accordance with general rules for dental/surgical treatment, occupational safety, and accident prevention. They must only be used for dental procedures with the restorative components they were designed for. If the indications and intended use are not clearly specified, treatment should be suspended until these considerations have been clarified. The following instructions are not sufficient to allow inexperienced clinicians to administer professional prosthetic dentistry. Inclusive dental implants, surgical instruments, and restorative components must only be used by dentists and surgeons with training/experience with oral surgery, prosthetics and biomechanical requirements, as well as diagnosis and preoperative planning. The implant site should be inspected for adequate bone by radiographs, palpations and visual examination. Determine the location of nerves and other vital structures and their proximity to the implant site before any drilling to avoid potential injury, such as permanent numbness to the lower lip and chin. Absolute success cannot be guaranteed. Factors such as infection, disease, and inadequate bone quality and/or quantity can result in osseointegration failures following surgery or initial osseointegration.

Precautions
Surgical Procedures
Minimizing tissue damage is crucial to successful implant osseointegration. In particular, care should be taken to eliminate sources of infection, contaminants, surgical and thermal trauma. Risk of osseointegration failure increases as tissue trauma increases. All drilling procedures should be performed at 2000 RPM or less under continual, copious irrigation. All surgical instruments used must be in good condition and should be used carefully to avoid damage to implants or other components. Implants should be placed with sufficient stability; however, excessive insertion torque may result in implant fracture, or fracture or necrosis of the implant site. The proper surgical protocol should be strictly adhered to. Since implant components and their instruments are very small, precautions should be taken to ensure that they are not swallowed or aspirated by the patient. Prior to surgery, ensure that the needed components, instruments and ancillary materials are complete, functional and available in the correct quantities.

Prosthetic Procedures
Following successful placement of Inclusive dental implants, verify primary stability and appropriate occlusal loading before proceeding with the placement of a permanent or provisional prosthesis. All components that are used intraorally should be secured to prevent aspiration or swallowing. Distribution of stress is an important consideration. Care should be taken to avoid excessive loads significantly transverse to the implant axes.
Sterility
Inclusive dental implants are shipped sterile. They should not be resterilized. They are for single use only, prior to the expiration date. Do not use implants if the packaging has been compromised or previously opened.

MRI
Inclusive dental implants have not been evaluated for safety and compatibility in the MR environment, and have not been tested for heating or migration in the MR environment. They can distort images obtained via magnetic resonance imaging (MRI).

Storage and Handling
Inclusive dental implants must be stored in a dry location at room temperature, in their original packaging. Inclusive dental implants are packaged suspended in sterile vials. Do not handle implant surfaces directly. Users are advised to visually inspect vials to insure seals and contents are intact and in their original packaging prior to use.

INSTRUCTIONS FOR USE — INCLUSIVE® TAPERED IMPLANTS

Soft Tissue Reflection
Following administration of appropriate anesthesia, make an incision of appropriate design for elevation of a flap. Perform alveoplasty on the crest of the ridge, if needed, to create a more even plane in which to place the implant.

Site Preparation
Step 1: Lance Drill – With proper irrigation, perforate the alveolar crest using a surgical stent, if necessary, as a reference for proper positioning.
Step 2: Pilot Drill – Select the 2.3/2.0 mm Pilot Drill. If any change is needed in trajectory, it may be corrected at this time. With proper irrigation, drill a pilot hole to the appropriate depth marking on the drill.
Check the orientation of the initial osteotomy using a Parallel Pin. If placing more than one implant and parallelism is desired, begin drilling the next site and align as the trajectory of the bone permits.
Step 3: Surgical Drills – Depending on implant diameter and the density of bone at the osteotomy site, it may be necessary to utilize one or more of the Surgical Drills to widen the osteotomy. To avoid over-preparation, widening drill diameters should be used only as necessary, and in proper succession. Select the desired Surgical Drill, accounting for the density of bone at the osteotomy site and the diameter of the implant to be placed. With proper irrigation, drill to the appropriate depth marking on the drill. The final drill for each implant diameter should be based on bone density (soft or hard), as charted below. The goal is to achieve high primary stability upon implant placement.

<table>
<thead>
<tr>
<th>Implant Size</th>
<th>Drilling Sequence Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lance Drill (Ø1.5 mm)</td>
</tr>
<tr>
<td>Ø4.7 mm</td>
<td>Soft/Soft</td>
</tr>
<tr>
<td>Ø5.2 mm</td>
<td>Soft/Soft</td>
</tr>
</tbody>
</table>

Step 4: (Optional) Dense Bone Tap – If indicated by the presence of dense bone, select the Screw Tap with a diameter matching that of the implant. The tap may be used as an alternative to the dense bone drill. Place the tap into the prepared implant site. Apply firm pressure and begin slowly rotating the tap (25 RPM maximum). When the threads begin engaging the bone, allow the tap to feed into the site without applying additional pressure. The osteotomy should be tapped through the cortical bone. Reverse the tap out of the site.

Implant Placement
Step 1: Implant Selection – Remove the sterile vial from its tamper-proof pouch and place it onto a sterile field.
Step 2: Initial Placement – Remove the implant from the vial by its plastic carrier, taking care not to touch the implant body. Transport the implant to the prepared site, and insert into the osteotomy. Rotate clockwise with applied pressure to engage the self-tapping groove. Avoid lateral forces, which can affect the angulation and final alignment of the implant. The plastic carrier will separate from the implant head upon reaching a torque threshold of approximately 15 Ncm.
Step 3: Advancement and Final Seating – Continue threading the implant into the osteotomy site using the preferred placement method. A minimum torque value of 35 Ncm upon final seating indicates good primary stability.

Methods of Implant Placement
Option 1: Handpiece Implant Placement – Place the Handpiece Implant Driver into the handpiece. Seat the driver into the internal hex connection of the implant, and press firmly to fully engage the connection. Thread the implant into the osteotomy at approximately 25 RPM until fully seated.

Option 2: Manual Implant Placement – Select the Torque/Ratchet Wrench and assemble it with the Implant Driver. (The Implant Driver may also be used separately as a hand driver.) With the implant threaded securely in its site, seat the driver into the internal hex connection of the implant, and press firmly to fully engage the connection. Turn the wrench clockwise in increments of approximately 90 degrees. Avoid lateral forces, which can affect final alignment of the implant.

Implant Positioning
The implant should be rotated at the time of placement to ensure optimal positioning of the internal hex connection. This will allow the restoring clinician to take full advantage of the anatomical abutment contours and minimize the need for abutment preparation. Adjust the final position of the implant so that any one of the six flats of the internal hex connection is oriented toward the facial.

Healing Component Placement
Following implant placement, prepare the site for healing by placing either a Healing Abutment (single-stage surgical protocol) or the Cover Screw (two-stage surgical protocol).

Option 1: Healing Abutment – If observing a single-stage surgical protocol, select a Healing Abutment of the appropriate height and diameter. Thread the abutment into place atop the implant. To secure the abutment, assemble the Handpiece Hex Driver with the Instrument Adaptor and use this combination driver to hand-tighten.

Option 2: Cover Screw – If observing a two-stage surgical protocol, assemble the Handpiece Hex Driver with the Instrument Adaptor. Use this combination driver to unthread the Cover Screw from the plastic carrier contained in the sterile vial. Carry the Cover Screw to the implant and hand-tighten.

Closure and Suturing
If the soft tissue was reflected, close and suture the flap utilizing the desired technique. Take a postoperative radiograph to use as a baseline, and advise the patient as to the recommended postoperative procedures.

Second Stage Uncovery (Two Stage Surgical Protocol)
Following the appropriate healing period, make a small incision in the gingiva over the implant site to expose the Cover Screw. Use the Hex Driver to remove the Cover Screw, and place a healing abutment or temporary abutment of the appropriate height and diameter.
INSTRUCTIONS FOR USE — INCLUSIVE® MINI IMPLANTS

Case Planning
Prescribed implant length and diameter should take into account crestal width, cortical thickness, bone density, and any other relevant clinical factors. Use appropriate radiography in mandibular cases to identify the location of the inferior alveolar nerve, including a possible anterior loop. Use appropriate radiography in maxillary cases to identify the location of the sinuses. When patient evaluation is complete, establish the number of Inclusive Mini Implants required for denture stabilization and identify the appropriate implant sites. In mandibular cases, it is recommended that four (4) mini implants be placed within the symphysis area with as wide an anterior-posterior spread as possible while still ensuring an adequate margin of safety from the nerve. In maxillary cases, it is recommended that six (6) mini implants be placed anterior to the sinuses. Wider implants are often preferred for softer bone types. Mini implants should be placed with a minimum of 7 mm between implants, to accommodate the size of the O-ring housings. The housings can accommodate up to 30 degrees of angular divergence between mini implants. However, implants should be placed as parallel to one another as possible to provide ideal prosthetic fit and to avoid excessive wearing of the O-rings. There should be at least 8 mm of vertical space from the top of the implant collar to allow for adequate thickness of the prosthesis. The denture teeth would be in addition to this space.

Drilling Protocol
Mark each implant site on the patient's tissue. Select the appropriate Cortical Bone Drill (1.5 mm, 1.7 mm, or 2.4 mm), as determined by the patient's bone density and the diameter of the implant to be placed. Carefully place the drill directly above the implant site and gently drill through the tissue and alveolar crest using an in-and-out motion and profuse, sterile irrigation to a depth of one-third (1/3) to one-half (1/2) the length of the implant threads. If placing 3.0 mm diameter Inclusive Mini Implants, continue drilling to a depth of at least two-thirds (2/3) the length of the implant threads. For the majority of implant sites, this is the extent of the drilling that is required. However, in dense bone, the drilling depth may need to be greater. The goal is to achieve high primary stability with an insertion torque of approximately 35 Ncm, taking care not to exceed the recommended maximum of 45 Ncm.

Implant Placement
Open the Inclusive Mini Implant vial. Grasping the plastic carrier, remove the implant from the vial, taking care not to touch the sterilized implant body. Transport the implant to the implant site, and insert into the pilot hole. Rotate clockwise with applied pressure to engage the self-tapping threads. Avoid lateral forces, which can affect the angulation and final alignment of the implant. The plastic carrier will separate from the implant head upon reaching a torque threshold of approximately 15 Ncm. Alternately, locking titanium forceps may be used to hold the implant body while the plastic carrier is removed and the implant driver is securely attached to the implant head. The forceps may then be removed and the implant placed in its site using the implant driver.

Final Insertion
With the implant threaded securely in its proper site, slide the Torque/Ratchet Wrench fully into place over the implant driver (utilizing the Round-Square Wrench Adaptor, if necessary). Turn the wrench clockwise in small increments of approximately 90 degrees, pausing between rotations to allow the bone to expand. Avoid lateral forces, which can affect the final angulation of the implant. Optimal final insertion of the implant leaves the implant head fully exposed, while the collar is embedded in the gingiva with no threads visible. For immediate loading of the implant, final torque at seating should be 30–35 Ncm minimum. Exceeding 45 Ncm torque during implant placement is not recommended.

NOTE: If the implant cannot be fully seated using the recommended torque, it may be necessary to reverse the implant from the site and drill again to increase the depth of the osteotomy. For positive long-term prognosis, solid resistance must be met during final insertion. Inadequate resistance contraindicates primary stability and loading. In such instances, a larger implant should be placed, or a new implant site determined.

Impression Procedure
An impression procedure is required whenever a new removable prosthesis is going to be fabricated. Based on the clinician’s preference, the O-ring housings can be processed into the denture, or space made and the housings placed on the chairside.

Step 1: Seat the Copings — Snap a Mini Implant Impression Coping onto the head of each Inclusive Mini Implant. If gingival tissue prevents full engagement of a coping onto an implant, take an impression of the mini implant without the use of impression copings, or trim the tissue.

Step 2: Seat the Impression — Standard impression techniques are used to pick up the impression copings, recording each implant’s position easily and accurately.

Step 3: Remove the Impression — Once the impression has fully set, carefully remove the tray from the patient’s mouth and verify that all impression copings have been captured accurately in the impression.

Step 4: Insert the Replicas — This step can be performed in the clinic or at the dental laboratory. Align the squared neck of a Mini Implant Replica with the open opening at the base of the impression coping. Press the replica into the coping until it snaps into proper position. Insert a replica into each coping and prepare the impression to be used to fabricate a stone model.

Step 5: Fabricate the Model — Use standard laboratory procedure to fabricate a soft tissue model.

Soft Denture Reline
A soft denture reline procedure is used when immediate loading with the O-rings is contraindicated, as in the case of a transitional prosthesis, or whenever the Inclusive Mini Implants are placed in soft bone (such as the maxilla or a Type III mandible). Following an appropriate healing period, the soft inner liner can be replaced with a hard pick-up of the O-ring housings to increase the level of retention.

Step 1: Prepare the Denture — Relieve the patient’s existing denture to make room for the implant heads. The positions of the implants can be identified using a color transfer applicator, or by lining the intaglio surface of the denture with impression or bite registration material. An acrylic bar can then be used to relieve the denture. The denture must be sufficiently relieved to seat passively, without resting on or against the implant heads.

Step 2: Line the Denture — Apply the selected soft reline material onto the tissue-facing surface of the denture. Seat the denture in the patient’s mouth. Instruct the patient to close with normal pressure into centric occlusion. Allow the soft reline material to set.

Step 3: Final Preparation — Remove the denture from the patient’s mouth and trim excess material with fine scissors or a surgical blade. Do not remove the palatal of a maxillary denture during this stage. Instruct the patient to keep the denture in place for the first 48 hours following placement, to prevent gingival overgrowth.

Hard Denture Reline
A hard denture reline procedure is used to incorporate the retention caps (O-ring Housings) that cover the Inclusive Mini Implants in the patient’s final prosthesis. This loading procedure can typically be performed immediately after placement of the Inclusive Mini Implants, provided primary stability and appropriate axial loading are assured. Primary stability is generally indicated when 35 Ncm of torque resistance is achieved, with implants seated at the appropriate gingival depth.

Step 1: Prepare the Denture — Mark the location of the implants on the intaglio surface of the patient’s existing denture. This can be done using a color transfer applicator, or by lining the intaglio surface of the denture with impression or bite registration material. Relieve the denture to make room for the O-ring housings. This can be done by creating a space for each housing where marked (or by boring a full trough). The denture must be sufficiently relieved to seat passively, without resting on or against the implant heads.

Step 2: Block Out the Implant Heads — Use a rubber dam or trim the Blockout Shims to the appropriate length in order to completely mask the exposed O-ring implant beneath the O-ball head. This is critical to prevent pick-up material from flowing under the O-ball. Place an O-ring housing on each mini implant, checking for passive fit over the blockout shims. Place the denture in the patient’s mouth, checking for passive fit over implants and housings.
Step 3: Line the Denture – Apply a thin layer of adhesive on the intaglio surface of the denture. Place hard pick-up material directly onto the O-ring housings and into the housing spaces (or trough) in the denture. Seat the denture in the patient’s mouth. Instruct the patient to close with normal pressure into centric occlusion. Allow the hard pick-up material to set.

Step 4: Final Preparation – Remove the denture and all blockout shims. Trim and polish. Instruct the patient to keep the denture in place for the first 48 hours following implant placement, to prevent gingival overgrowth.

PROSTHETIC COMPONENTS

- **Description**
  Inclusive Prosthetic Components, consisting of abutments, screws, analogs, copings, and related restorative accessories, are manufactured from titanium alloy, gold alloy, or polymers. Inclusive Prosthetic Components are shipped non-sterile (except for multi-unit abutments). For product-specific descriptions and sterility information, please refer to the individual product labels and appropriate Inclusive catalogs and/or user manuals.

- **Indications for Use**
  **Inclusive Abutments** are premanufactured prosthetic components directly connected to endosseous dental implants and are intended for use as an aid in prosthetic rehabilitation.
  **Multi-Unit Abutments** are intended to provide support and retention for multi-unit screw-retained restorations. The 30-degree multi-unit abutments must be used within 45 degrees of parallelism for a splinted restoration. The 17-degree multi-unit abutments must be used within 32 degrees of parallelism for a splinted restoration.

- **Contraindications**
  **Inclusive Abutments**
  - Wall thickness less than 0.5 mm
  - Gingival margin diameter less than 0.5 mm wider than implant
  - Angle corrections of more than 20 degrees
  - Less than 0.5 mm margin height
  - Less than 4 mm abutment height
  **Multi-Unit Abutments**
  - Greater than 45 degrees divergence from parallel for a splinted restoration when using 30-degree multi-unit abutments
  - Greater than 32 degrees divergence from parallel for a splinted restoration when using 17-degree multi-unit abutments

- **Warnings**
  An Inclusive abutment is intended to be used on an individual patient only. The reuse of such device on another patient is not recommended due to the risks of cross-contamination or infection. Small-diameter implants and angled abutments are not recommended for the molar region of the mouth.

- **Adverse Effects**
  The following adverse effects have been observed when using prosthetic components and accessories:
  - Components used in the patient’s mouth have been aspirated or swallowed.
  - The abutment screw has fractured due to application of excessive torque.
  - The abutment is not adequately secured due to inadequate application of torque.

- **Precautions**
  Inclusive abutments may only be used for their intended purpose in accordance with general rules for dental/prosthetic treatment, occupational safety, and accident prevention. Inclusive abutments must only be used for dental procedures with the implant systems they were designed for. If the indications and intended use are not clearly specified, treatment should be suspended until these considerations have been clarified. All components that are used intraorally must be secured to prevent aspiration or swallowing. Prior to placement, ensure that the required components, instruments, and ancillary materials are complete, functional, and available in the correct quantities.

- **Side Effects**
  No side effects, according to current knowledge.

- **Sterility**
  Multi-Unit Abutments are shipped sterile. They should not be resterilized. They are for single use only, prior to the expiration date. Non-sterile abutments and screws must be cleaned, disinfected, and sterilized prior to clinical use, according to a validated method.
  
  The recommended disinfection process is based on ANSI/AAMI ST79 guidelines, as follows:
  - **Disinfection:** Immerse abutments in disinfectant¹, rinse with distilled water and dry.
  - The recommended sterilization process is based on the ANSI/AAMI/ISO 17665-1 and ANSI/AAMI ST79 guidelines, as follows:
  - **Sterilization:** Gravity-fed sterilizers: Autoclave in sterilization pouch for 30 minutes at 121°C (250°F)².
  
  "Note: The validated procedures require the use of FDA-cleared sterilization trays, wraps, biological indicators, chemical indicators, and other sterilization accessories labeled for the sterilization cycle recommended. The healthcare facility should monitor the sterilizer for the facility according to an FDA-recognized sterilizer assurance standard such as ANSI/AAMI ST79.

- **MRI**
  Inclusive abutments have not been evaluated for safety and compatibility in the MR environment, and have not been tested for heating or migration in the MR environment. They can distort images obtained via magnetic resonance imaging (MRI).

- **Dental Implant Compatibility and Recommended Torque Values**
  Inclusive Prosthetic Components manufactured by Prismatik Dentalcraft are generally compatible with the implant systems listed in the table below. The availability of a particular type of prosthetic component varies by implant system, and may be limited by geographical territory. The platform-specific compatibility of each component is indicated on the individual product label. For a complete product listing, please refer to the Inclusive Prosthetic Components Product Catalog, or contact an Inclusive sales representative.

<table>
<thead>
<tr>
<th>Implant System and Platform Sizes</th>
<th>Manufacturer’s Recommended Torque (Ncm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Titanium Abutment / Screw</td>
</tr>
<tr>
<td>Biomet 3i™ Certain® 3.4 mm, 4.1 mm, 5.0 mm, 6.0 mm</td>
<td>20 Ncm</td>
</tr>
<tr>
<td>Camlog® Screw-Line</td>
<td>20 Ncm</td>
</tr>
</tbody>
</table>

¹Refer to the disinfectant manufacturer’s instructions.²ANSI/AAMI ST79

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## INSTRUCTIONS FOR USE — INCLUSIVE® TITANIUM ABUTMENTS

**Inclusive Titanium Abutments** are prefabricated, screw-retained intracanal abutments intended to be connected directly to an endosseous implant for retention of a cemented dental prosthesis. They may be indicated for single- and multiple-tooth restorations. Titanium abutments are machined from titanium alloy and attached to the implant fixture with a titanium screw compatible with the restorative instrumentation of the specified implant system.

### Capture Implant Placement

Take an implant-level impression utilizing the preferred technique (direct, indirect, or intraoral scan). Submit the impression to the laboratory.

**Laboratory — Fabricate the Restoration**

1. Follow pouring procedures for the appropriate die stone to produce a working model and articulate with a bite registration.
2. Select the appropriate Inclusive Titanium Abutment based on the system, platform size, location, and occlusal clearance of the implant seated in the patient’s mouth.
3. Seat the abutment completely into the implant analog on the working model, making sure that the anti-rotational features of the connection interface are fully engaged and the contours of the emergence profile (if applicable) are esthetically oriented.
4. Insert the Inclusive Titanium Screw (provided) into the abutment’s screw access hole and hand-tighten using the appropriate driver.
5. Fabricate the restoration using conventional casting or CAD/CAM techniques. Veneer as necessary. If a screw-retained hybrid restoration is indicated, lute the ceramic crown to the titanium abutment.

### Deliver the Final Restoration

1. Seat the titanium abutment or screw-retained hybrid restoration completely into the implant, making sure that the anti-rotational features of the connection interface are fully engaged and the contours of the sculpted emergence profile are esthetically oriented.
2. Insert the Inclusive Titanium Screw (provided) into the screw access hole and hand-tighten using the appropriate driver. It is strongly recommended that a radiograph of the connection site be taken to confirm complete seating of the abutment or hybrid restoration before proceeding.
3. Using the appropriate driver in conjunction with a properly metered torque wrench, tighten the abutment or hybrid restoration to the implant manufacturer’s recommended torque value.
4. Fill the screw access hole with cotton, Teflon tape, gutta-percha, or other suitable material.
5. If the restoration is of a screw-retained hybrid design, cover the screw access hole with flowable composite, and cure. Otherwise, follow applicable cementation procedures to affix the definitive restoration to the abutment.

## INSTRUCTIONS FOR USE — INCLUSIVE® MULTI-UNIT ABUTMENTS

**Inclusive Multi-Unit Abutments** are prefabricated, screw-retained intracanal abutments intended to be connected directly to endosseous implants in partially or fully edentulous patients for the retention of cast or milled bar overdentures. For implant-supported prostheses, six or more implants are recommended in the maxilla, four or more in the mandible. If clinical conditions dictate fewer implants, an implant-retained, tissue-supported prostheses is indicated. Multi-unit abutments are machined from titanium alloy, and are available with a variety of collar heights to achieve optimal emergence from shallow or deep gingival wells. Each Inclusive Multi-Unit Abutment is delivered sterile, suspended in an aseptic vial from a plastic carrier color-coded to indicate the restorative platform of the seated implant.

Straight multi-unit abutments lack any anti-rotational features at the implant-abutment interface. The apical portion of a straight multi-unit abutment is threaded for integration with the internal cavity of a seated implant. For abutment delivery, the occlusal surface features a male hex head compatible with the multi-unit driver recommended by the implant manufacturer. **Angled multi-unit abutments** of 17 degrees or 30 degrees enable clinicians to compensate for the divergence of seated implants or to otherwise accommodate an angled path of insertion. Angled multi-unit abutments feature an anti-rotational connection interface specific to the matching implant platform, and are attached to the implant fixture with an angled multi-unit abutment screw compatible with the restorative instrumentation of the specified implant system. Both straight and angled multi-unit abutments feature a female connection port at the coronal apex, to allow for attachment of a screw-retained or fixed-removable dental prosthetic with a multi-unit restorative screw (Inclusive Prosthetic Screw).

The axial tilt of an Inclusive Angled Multi-Unit Abutment (angular divergence from path of insertion) is designed and manufactured to lie along a *plane* of the implant connection geometry, as opposed to a coronal or junction. To maximize the angle-correcting attributes of the multi-unit abutment, be sure to rotate the implant upon final seating so that one side of the internal connection geometry (flat or lobe) is oriented to serve as the base of angulation, in accordance with the restorative treatment plan.

### Place the Multi-Unit Abutment

1. Select the appropriate Inclusive Multi-Unit Abutment based on platform size, endosseous implant angle, and depth of the soft-tissue well.
2. Remove the lid from the aseptic vial and retrieve the abutment by lifting the plastic abutment carrier straight out. To maintain the sterility of the multi-unit abutment, be careful to handle only by the plastic carrier.
3. (a) For Straight Abutments: Using the plastic carrier, seat the abutment into the implant and hand-tighten. Remove the plastic carrier by pulling the apex of the carrier toward the facial. (b) For Angled Abutments: Using the plastic carrier, seat the abutment into the implant until the anti-rotational features of the connection interface are engaged. Lift and rotate as necessary to orient the angle in the required direction. Hand-tighten the Inclusive Angled Multi-Unit Abutment Screw using the appropriate driver. Twist the plastic carrier counterclockwise to remove.

### Table: Dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th>X-Small (2.5 mm)</th>
<th>Small (2.9 mm)</th>
<th>Large (3.9 mm)</th>
<th>3.5 mm, 4.5 mm</th>
<th>5.0 mm, 6.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter (mm)</td>
<td>15 Ncm</td>
<td>20 Ncm</td>
<td>25 Ncm</td>
<td>35 Ncm</td>
<td>30 Ncm</td>
</tr>
<tr>
<td>Inclusive® Tapered Implant System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Inclusive® Bone Level</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Zimmer Dental Screw-Vent®</td>
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</tbody>
</table>

**NOTE:** Any screw-retained prosthetic component not listed in the table above should be hand-tightened only.

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**Dentsply Implants Astra Tech Implant System®**

**Nobel Biocare Bränemark System®**

**Nobel Biocare NobelActive®**

**Nobel Biocare NobelReplace®**

**Straumann® Bone Level**

**Zimmer Dental Screw-Vent®**
NOTE: It is strongly recommended that a radiograph of the connection site be taken to confirm complete seating of the abutment before proceeding.

4) Using the appropriate driver in conjunction with a properly metered torque wrench, tighten the multi-unit abutment or angled multi-unit abutment screw to the implant manufacturer’s recommended torque value.

**Passive Temporization of Multi-Unit Abutments**

1) If the initial stability of the seated implant is insufficient for loading, cover each Inclusive Multi-Unit Abutment with an Inclusive Multi-Unit Temporary Healing Cap and hand-tighten with the Inclusive Prosthetic Screw provided, using the appropriate driver. Do not overtighten.
2) Using the patient’s existing denture or other prosthesis, relieve the area directly above the placement of each temporary healing cap until the denture rests on the ridge.
3) Follow procedures to refine the denture over the temporary healing caps, using soft reline material only. The temporized denture can be used during a healing phase until the implants obtain sufficient load-bearing stability.

NOTE: For a temporization technique involving loading, please refer to the **Inclusive Prosthetic Components Restorative Manual.**

**Capture Multi-Unit Abutment Placement**

When stability permits, take an abutment-level impression utilizing the preferred technique (direct, indirect, or intraoral scan). Submit the impression to the laboratory for the fabrication of a working cast and verification index.

**Denture Protocol**

Follow appropriate denture protocol in accordance with the patient-specific treatment plan. When trying in the various setups (e.g., verification index, occlusal rim, wax setup, retention bar), hand-tighten to the multi-unit abutments with prosthetic screws, using the appropriate driver. Start from the distal and move forward, alternating between sides of the ridge. Always confirm complete, passive seating, modifying the setup as needed.

**Deliver the Final Restoration**

1) Remove any temporary prosthesis.
2) Confirm that each multi-unit abutment is tightened to the implant manufacturer’s recommended torque value.
   - For attachment-retained removable prosthesis:
   3) Follow procedures to seat the attachment component onto each multi-unit abutment. Tighten to the manufacturer’s recommended torque value.
   4) Line the prosthesis onto the attachment components and snap into place. Check comfort and occlusion, and make any necessary adjustments.
   - For screw-retained, fixed removable prosthesis:
   3) Line the prosthesis onto the abutments. Beginning with the midmost screw access channel, hand-tighten an Inclusive Prosthetic Screw into the multi-unit abutment. Repeat for each abutment, working outward and alternating left to right.
   4) Confirm appropriate seating. With the same middle-out, left-to-right technique, tighten each prosthetic screw to 15 Ncm.
   5) Check comfort and occlusion, and make any necessary adjustments.
6) Fill each screw access channel with gutta-percha, silicone, or other suitable temporary material.

### SURGICAL INSTRUMENTS

- **Description**
  Inclusive surgical instruments and surgical/restorative accessories are made out of the following materials: titanium alloy, gold alloy, polymers, and stainless steel. Inclusive prosthetic components are designed to be compatible with the restorative instrumentation of the specified implant system. For specific product identification and contents, please refer to individual component packaging and appropriate Inclusive product catalogs and/or user manuals.

- **Sterility**
  Surgical instruments are shipped non-sterile. Surgical tray and instruments must be cleaned, disinfected, and sterilized prior to clinical use, according to a validated method as per the ANSI/AAMI/ISO 17665-1.

- **Warnings**
  Prior to surgery, ensure that instruments and accessories are complete, functional, and available in the correct quantities.

- **Precautions**
  Proper surgical protocol should be strictly adhered to. All surgical instruments used must be in good condition and should be used carefully to avoid damage to implants or other components. Since implant components and their instruments are very small, precautions should be taken to ensure that they are not swallowed or aspirated by the patient.

### SYMBOLS

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<th>Symbol</th>
<th>Description</th>
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<td>Non-Sterile</td>
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<td>Do not Resterilize</td>
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<td>European Authorized Representative</td>
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</tbody>
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