

T3[®] Short Implants

Implants & Instrumentation



Implant Treatment Options for Vertical Height Deficiencies

The T3 Short Implant's length and features are designed to provide an implant treatment option in some challenging clinical cases where the bone height is insufficient for standard length implants

The Clinical Challenge:

In areas with minimal bone height, providing implant treatment may require complex surgical procedures, such as:

- · A sinus lift procedure in the maxilla
- Vertical ridge augmentation in the mandible due to the proximity to the mandibular nerve



Fig. 1: Minimal bone height under the maxillary sinus.

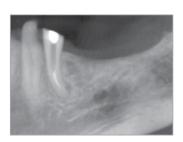


Fig. 2: Reduced vertical bone height above the inferior alveolar nerve canal.

Clinical Case By: Dr. Stavros Pelekanos,† Athens, Greece.

A 32-year-old male patient presented with diminished bone height under the sinus secondary to a fractured root and extraction of the maxillary left first molar eight weeks prior to surgery.



Fig. 1: Preoperative periapical radiograph showing missing tooth number 14 [26].



Fig. 2: A 6.0 mmD x 6.0 mmL T3 Short Implant and healing abutment was placed in a single-stage protocol.

Clinical Treatment By: Dr. Stefano Sivolella, Padova, Italy.

A 60-year-old female patient presented with a hopeless first molar due to caries, root resorption and severe alveolar bone loss as a result of generalized periodontitis; the inferior alveolar nerve was in close proximity (approximately 7.0 mm).

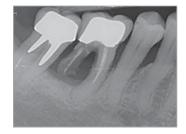


Fig. 1: Preoperative periapical radiograph showing hopeless tooth number 30 [46].



Fig. 2: A 6.0 mmD x 6.0 mmL T3 Short Implant and definitive crown inserted at nine months post-implant placement.





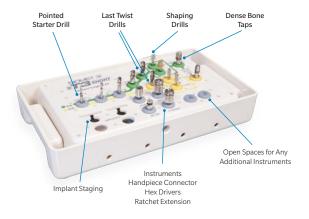
Surgical Kit

- Everything needed to place a T3 Short Implant in one compact kit
- Instrumentation specific to the T3 Short Implants
- The drilling sequence undersizes the osteotomy in diameter by 1.15 mm

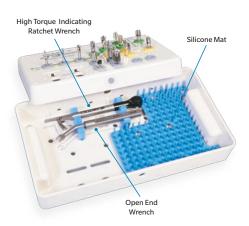
5.0 mm diameter implants: Yellow Path6.0 mm diameter implants: Green Path



Kit Insert

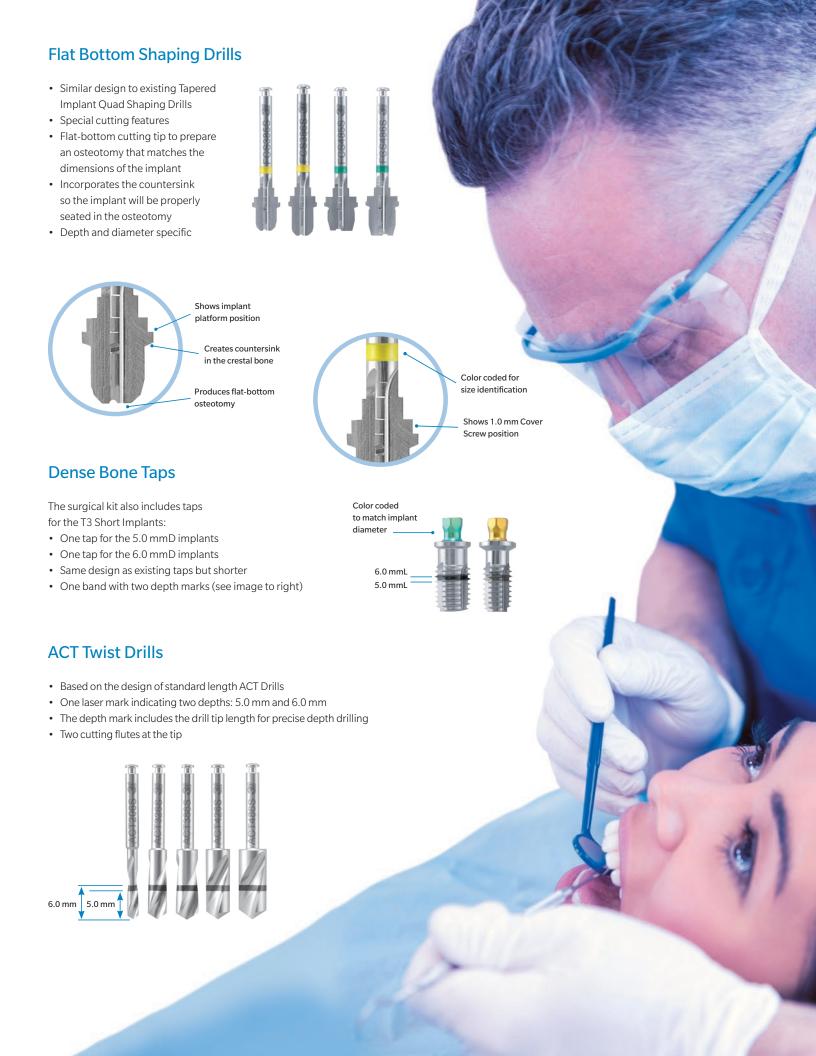


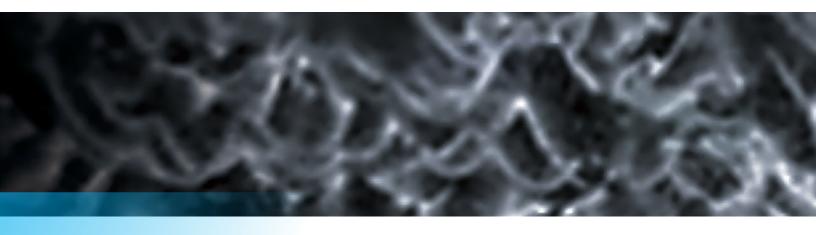
Kit Bottom Tray



Surgical Kit: BSISK

| Item# | Description | Item# | Description |
|---------|---|--------|---|
| ACT206S | ACT® Reusable Twist Drill 2.0 mmD x 6.0 mmL | TAP56S | Short Implant Dense Bone Tap, 5.0 mmD x 5-6.0 mmL |
| ACT326S | ACT Reusable Twist Drill 3.25 mmD x 6.0 mmL | TAP66S | Short Implant Dense Bone Tap, 6.0 mmD x 5-6.0 mmL |
| ACT386S | ACT Reusable Twist Drill 3.85 mmD x 6.0 mmL | RE100 | Short Ratchet Extension |
| ACT426S | ACT Reusable Twist Drill 4.25 mmD x 6.0 mmL | PHD02N | Narrow Posterior Large Hex Driver |
| ACT486S | ACT Reusable Twist Drill 4.85 mmD x 6.0 mmL | PHD00N | Narrow Posterior Small Hex Driver |
| FCS385S | Flat Bottom Countersink Shaping Drill 5.0 mmL | H-TIRW | High Torque Indicating Ratchet Wrench |
| FCS386S | Flat Bottom Countersink Shaping Drill 6.0 mmL | MDR10 | Handpiece Connector |
| FCS485S | Flat Bottom Countersink Shaping Drill 5.0 mmL | CW100 | Open End Wrench |
| FCS486S | Flat Bottom Countersink Shaping Drill 6.0 mmL | ACTPSD | ACT Pointed Starter Drill |





Differentiating Technology

T3 Surface

Blasted and acid-etched implant surface with an average roughness of $1.4 \, \mu m$ along the full length of the implant. ¹ In preclinical studies*, the T3 with DCD® Surface demonstrated increased integration strength throughout the healing phase as compared to less complex surface topographies.²

Initial Bone-to-Implant Contact (IBIC)

The dimensions of the surgical instrumentation and the T3 Short Implant provide a tight implant-to-osteotomy fit, to assist with primary stability.3

Implant/Abutment Clamping Force

Use of the Gold-Tite® Screw increases implant/abutment clamping force by 83% vs. a non-coated screw.4 Proprietary* Gold-Tite Surface lubrication allows the screw to rotate further, increasing clamping force and maximizing abutment stability.⁵

Platform Switching**

Platform switching medializes the implant/abutment junction (IAJ) redirecting the reformation of the biologic width, thus helping to maintain bone levels.6

Coarse and fine micron surface features are designed to create an average mean surface roughness value of 1.4 µm along the full length of the implant.1

- · Coarse: (10+ microns) via resorbable calcium phosphate media blast
- Fine: (1 - 3 microns) via **Dual Acid-Etching** (DAE) on top of the blasted surface



Option for nano-scale features along the full length of the implant via Discrete Crystalline Deposition (DCD) of calcium phosphate



- Gubbi P¹, Towse R¹. Quantitative and Qualitative Characterization of Various Dental Implant Surfaces. Poster Presentation: European Association for Osseointegration, 20th Annual Meeting; October 2012; Copenhagen, Denmark. To view the poster, please visit www.biomet3i.com/pdf/Posters/Poster_421_EAO_Final.pdf
 Mendes Y, Davies JE. Early Implant healing at implant surfaces of varying topographical complexity. Poster Presentation: Academy of Osseointegration, 26th Annual Meeting; March 2011; Washington, DC. http://biomet3i.com/pdf/Posters/Poster_Early_Periimplant_Healing.pdf.
 Meltzer AM¹. Primary stability and initial bone-to-implant contact. The effects on immediate placement and restoration of dental implants. J Implant Reconstr Dent. 2009;1(1):35-41.
 Suttin Z¹, Towse R¹. Effect of Abutment Screw Design on the Seal Performance of an External Hex Implant Hex Implant Ryster Poster posters/EAO Effect of Abutment Screw Design on the Seal Performance of An External Hex Implant Ryster Poster_posters/EAO EPo.posters/EAO EFfect of Abutment Screw Design on the Seal Performance of An External Hex Implant Ryster Poster_posters/EAO EPo.posters/EAO EPo.posters/EAO

Placement of a smaller diameter restorative component than the diameter of the implant seating surface

Ordering Information



| 6.0 mmD | External Hex Implants | |
|---------|--|--|
| Item# | Description | |
| BOES605 | 6.0 mmD x 5.0 mmL | |
| BOES606 | 6.0 mmD x 6.0 mmL | |
| | | |
| 6.0 mmD | External Hex Implants with DCD Surface | |
| Item# | Description | |
| BNES605 | 6.0 mmD x 5.0 mmL | |
| BNES606 | 6.0 mmD x 6.0 mmL | |
| | | |
| | Item# BOES605 BOES606 6.0 mmD Item# BNES605 | |

Recommended Healing Abutments For Platform Switching

| | 4.1 mmD | Seating Surface | | |
|---------------------------|---------|----------------------|------------------|--|
| ⊢ 5 ⊣ | Item# | Emergence Profile | Collar Height | |
| Ţ | THA52 | 5.0 mm | 2.0 mm | |
| 65 <u>°</u> \ | THA53 | 5.0 mm | 3.0 mm | |
| # | THA54 | 5.0 mm | 4.0 mm | |
| ₩ F 4.1 - l | THA56 | 5.0 mm | 6.0 mm | |
| 1 4.1 1 | THA58 | 5.0 mm | 8.0 mm | |
| | THA63 | 6.0 mm | 3.0 mm | |
| F 6 → | THA64 | 6.0 mm | 4.0 mm | |
| l h | THA66 | 6.0 mm | 6.0 mm | |
| 60 <u>~</u> ⊤ | THA68 | 6.0 mm | 8.0 mm | |
| # | THA73 | 7.5 mm | 3.0 mm | |
| F 4.1 H | THA74 | 7.5 mm | 4.0 mm | |
| | THA76 | 7.5 mm | 6.0 mm | |
| | THA78 | 7.5 mm | 8.0 mm | |

This product is not available in all markets. Please contact your local Zimmer Biomet Sales Representative for availability in your market. Refer to the Surgical Catalog (INSTSUR) for more options.

Recommended Healing Abutments For Platform Switching

| | 5.0 mmD | Seating Surface | | |
|-----------------------|---------|----------------------|------------------|--|
| | Item# | Emergence Profile | Collar Height | |
| ⊢ 5.6 ⊣ | WTH52 | 5.6 mm | 2.0 mm | |
| T | WTH53 | 5.6 mm | 3.0 mm | |
| 45°∆ | WTH54 | 5.6 mm | 4.0 mm | |
| | WTH56 | 5.6 mm | 6.0 mm | |
| ⊢ 5 ⊣ | WTH58 | 5.6 mm | 8.0 mm | |
| | WTH562 | 6.0 mm | 2.0 mm | |
| ⊢ 6 → | WTH563 | 6.0 mm | 3.0 mm | |
| T O | WTH564 | 6.0 mm | 4.0 mm | |
| 35° ∠ | WTH566 | 6.0 mm | 6.0 mm | |
| 35-7 | WTH568 | 6.0 mm | 8.0 mm | |
| ₩ ⊢5 → | WTH572 | 7.5 mm | 2.0 mm | |
| | WTH573 | 7.5 mm | 3.0 mm | |
| | WTH574 | 7.5 mm | 4.0 mm | |
| | WTH576 | 7.5 mm | 6.0 mm | |
| | WTH578 | 7.5 mm | 8.0 mm | |

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