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DTI AGGRESSIVE SLA / ACT IMPLANT



	Manufacturer		
\sim	Production Date		
23	Use by Date		
LOT	Batch Code		
REF	Catalog Number		
R _X Only	By Prescription Only		
\otimes	Do not reuse		
$\overline{\otimes}$	Do not use if package is damaged		
STERILE R	Sterilized using gamma radiation		
*	Keep away from sunlight		
Ť	Keep dry		
\triangle	Caution, Consult accompanying documents		
\bigcirc	Double sterile barrier system		
MD	Medical Device		

Description of DTI Implant System

DTI Implant is a brand for implant materials for dental practices. The raw material of Aggressive Implant is Grade 4 Titanium. The abutment. prosthetic components for DTI Implant System are compatible with DTI Implant fixture only. Using this product in combination with products from other manufacturers may cause various problems including loosening and fracture due to incomplete locking and compatibility issues. Use DTI Implants only with related concept products. Refer to manual or the catalogue or our website (www.dtiimplant.com) for details. See the product label for the product code, specifications, manufacturing date, and expiration date.

Disclaimer of liability

This product is part of an overall concept and may only be used in conjunction with the associated original products according to the instruction's recommendation of DTI Implant Systems, Non-recommended use of products made by third parties in conjunction with DTI Implant Systems products will void any warranty or other obligation, express or implied, of DTI Implant Systems.

The user of DTI Implant Systems products have the duty to determine whether or not any product is suitable for the particular patient and circumstances.

DTI Implant Systems disclaims any liability, express or implied, and shall have no responsibility for any direct, indirect, punitive or other damages, arising out of or in connection with any errors in professional judgment or practice in the use of DTI Implant Systems products. The user is also obliged to study the latest developments in regard to this DTI Implant Systems product and its applications regularly. In cases of doubt, the user has to contact DTI Implant Systems

Since the utilization of this product is under the control of the user, it is his/her responsibility. DTI Implant Systems does not assume any liability whatsoever for damage arising thereof.

Description

Implant: DTI Implant is an endosseous threaded dental implant made of titanium with SLA or DTI Active surface.

Cover Screw: A screw placed on the superior part of a dental implant immediately after it is placed in the bone, completely covering the top of the implant and sealing it off from the bone and other debris during the healing and integration period. The screw is removed at the beginning of the next phase of the implant process. The single use screw is for one patient for one treatment only and is delivered sterile with the implant nackage

Healing Abutment: Used to tissue opening for establish proper profile. Abutment and Abutment Screw: A dental implant abutment to be directly connected to an endosseous dental implant intended for use as an aid in prosthetic rehabilitation

Intended use

DTI Implants are dental implants intended to be used in the upper or lower iaw bone anchoring or supporting tooth replacements to restore chewing function

Indications

DTI Implant Systems are designed for use in dental implant surgery. It replaces the natural tooth root surgically inserted into the upper or lower alveolar bone. The Implant can restore the injured tooth by connecting abutment after osseointegration with the alveolar bone.

Contraindications

DTI 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: -Patient not prepared to undergo total oral rehabilitation -Vascular conditions -Uncontrolled diabetes -Clotting disorders -Anticoagulant therapy -Metabolic bone disease -Chemotherapy or radiation therapy -Chronic periodontal inflammation -Insufficient soft tissue coverage -Metabolic or systemic disorders associated with wound and/or hone healing -Use of pharmaceuticals that inhibit or alter natural bone remodelling -Any disorders which inhibit a patient's ability to maintain adequate daily oral hygiene e.g., bruxism -Uncontrolled parafunctional habits

-Insufficient height and/or width of bone

Insufficient interarch space

-Treatment of children is not recommended until growth is finished and epiphyseal closure has occurred.

-Patients who are allergic or hypersensitive to titanium.

Warnings

The following instructions are not sufficient to allow inexperienced clinicians to administer professional prosthetic dentistry. DTI Implants. surgical instruments, and prosthetic components must only be used by dentists and surgeons with training/experience with oral surgery, prosthetic 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 numbress 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.

Dental implants must not be altered in any way. Implant mobility, bone loss or chronic infection may indicate implant failure. Do not reuse the implants. The reuse of such device on another patient is not recommended due to the risks of cross-contamination or infection. Implant cannot be resterilized

DTI Implants have not been evaluated for safety and compatibility in the MR environment. It has not been tested for heating, migration, or image artifact in the MR environment. The safety of DTI Implants in the MR environment is unknown. Scanning a patient who has this device may result in patient injury

Cautions

Procedural Precautions, Surgery: All efforts must be made to minimize damage to the host tissue, paving special attention to thermal and surgical trauma and to the elimination of contaminants and sources of infection. The surgical procedure requires a high degree of precision and care, and the limits for acceptable tissue handling are must narrower than in general oral surgery. Any divergence from the principle of least possible trauma at implant installation increases the risk of failure to establish osseointegration.

All drilling procedures should be performed at approximately 800~1200 rpm. All drilling and pretapping procedures require the use of dedicated, sharp instruments under constant and profuse irrigation for cooling. Implants are ideally installed in a stable manner. All instruments used in surgery must be maintained in good condition and care must be taken that instrumentation does not damage implants or other components. Because of the small size of implant components and instruments, care must be taken that they are not swallowed or aspirated by the patient. After the implant installation, the surgeon's evaluation of bone quality and initial stability will determine when implants may be loaded.

Procedural Precautions, Prosthetics: Especially important is proper stress distribution: passive adaptation and fitting of the bridge to the implant abutments; adjusting occlusion to the opposing jaw; avoiding excessive transverse loading forces, particularly in immediate loading cases, Because of the small size of prosthetic components, care must be taken that they are not swallowed or aspirated by the patient.

Caution for Patient: To keep completely the oral hygiene. Do not apply bite force until final prosthetic placement.

Surgical Procedure:

During drilling procedures bone quality should be considered (please see Table 1)

Recommended drill sequences based on bone guality: Table 1

Final	Bone Type		
Drill	Soft	Normal	Hard
Ø 3,0	Ø 2,3	Ø 3,0	Ø 3,0 Hard-Taper
Fixture	Drill	Drill	Cortical Drill
Ø 3,5	Ø 3,0	Ø 3,5	Ø 3,5 Hard-Taper
Fixture	Drill	Drill	Cortical Drill
Ø 4,0	Ø 3,5	Ø 4,0	Ø 4.0 Hard-Taper
Fixture	Drill	Drill	Cortical Drill
Ø 4,5	Ø 4,0	Ø 4,5	Ø 4.5 Hard-Taper
Fixture	Drill	Drill	Cortical Drill
Ø 5,0	Ø 4,5	Ø 5,0	Ø 5.0 Hard-Taper
Fixture	Drill	Drill	Cortical Drill
Ø 5,5	Ø 5,0	Ø 5,5	Ø 5.5 Hard-Taper
Fixture	Drill	Drill	Cortical Drill
Ø 6,0	Ø 5,5	Ø 6,0	Ø 6,0 Hard-Taper
Fixture	Drill	Drill	Cortical Drill

Drilling must proceed at high speed (recommended 800 rpm - max, 1200 rpm) under constant and profuse external irrigation by sterile saline at room temperature

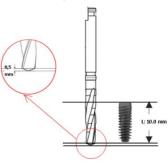
Depth measurement system: the depth gauge has a true depth measurement system.

All drills and components are marked to prepare the site to the correct depth and obtain a secure and predictable position with laser marking.

Caution: Drills are 0,5 mm longer than the implant when seated. Allow for this additional length when drilling near vital anatomical structures. (Please see Picture 1 for drill reference lines).

Note: Final vertical positioning depends on several parameters, including esthetics, tissue thickness and available vertical snace

Note: It may use drill extension in cases where adjacent natural teeth and the motorhead intersect to provide the drill to reach the desired depth.



Picture 1 shows Ø 4.0 x 15 Taper Drill and Ø 4.0 x 10.0 mm implant

- 2. Prepare implant site. When using a flapless approach add-on soft tissue height to drill depth
- 3. Measure the final depth of implant site for applicable implant length using depth.
- Λ Open the implant package and pick up the implant from inner casing by applying light pressure on the implant driver and carefully turn the implant sleeve counter clockwise until implant driver is fully seated. DTI implants are ideally installed with low speed, max 25 rpm, using drilling device or by hand using surgical driver.
- Place and tighten the implant. For DTI Implant Ø3.0 use maximum 45 5. Ncm installation torque and for DTI Ø3.5, Ø4.0, Ø4.5, Ø5.0, Ø5.5 and Ø6.0 use maximum 70 Ncm installation torque
- 6. Depending on surgical protocol of choice, place a cover screw or healing abutment or abutment and suture.

Cleaning and sterilization instructions

DTI Implants are delivered sterile for single use only prior to the labelled expiration date.

Warning: Do not use device if the packaging has been damaged or previously opened.

Caution: Implants are single use product and must not be reprocessed. Reprocessing could cause loss of mechanical, chemical and/or biological characteristics. Reuse could cause cross contamination.

All Drills are delivered nonsterile and intended for re-use. Prior to re-use, clean, disinfect and seal the product in a pouch and steam sterilize using the recommended narameters

Warning: Use of non-sterile device may lead to infection of tissues or infectious diseases

Steam sterilizes at 121°C for 20 minutes.

Storage and handling

The product must be stored in a dry place in the original packaging at room temperature and not exposed to direct sunlight. Incorrect storage may influence device characteristics leading to failure.

Disposal

Products that have come into contact with the patient should be treated as medical waste. Disposal of the device shall follow local regulations and environmental requirements, taking different contamination levels into account

Manufacturer DTİ İmplant Sistemleri San. Tic. A.Ş.



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