



Warnings:

Surgical and restorative techniques required to place dental implants are highly specialized and complex procedures. BHI's Surgical Tools and Accessories are intended for use by adequately certified dentists with specific implant training. Improper technique can cause bone loss, patient injury, pain and implant failure.

Surgical instruments are susceptible to damage and wear and should be inspected and cleaned before each use. Over time, repeat sterilization may affect cutting efficiency and color appearance

Caution: Federal law (US) restricts this device to the sale, distribution, and use by or on the order of a licensed medical professional.

1. Indications For Use

BHI's Surgical Tools and Accessories are inclicated for use with BHI's implants and associated components for surgical and restrictive applications for placement in the bone of the upper or lower jawn. provide apport for prosthetic devices, such as artificial teeth, in order to respect the patients' chewing function. In addition, they are also indicated for user this BHI's implants and associated components for immediate loading with a good primary stability is achieved and with appropriate occlusal loading.

2. Note

Care and maintained of reusable instruments are crucial for a successful treatment and are essential for the outcome of the total treatment.

3. Non-Sterile Surgical Tools and Accessories

The Surgical Tools and Accessories, which are delivered non-sterile, are marked as "non-sterile".

4. Contraindications

- a. Pregnancy
- b. Renal failure
- c. Steroid use
- d. Hypertension above 170/110 mm Hg
- e. Osteoradionecrosis
- f. Unexplained hypersensivity
- g. Patients receiving corticosteroids anticonvulsives or immunosuppressive therapy

- h. Organ transplantation
- i. Fibrous dysplasia
- Ehler-Danios syndrome Prophylactic antibiotics
- k. Bone metabolism disorders
- I. Hypersensivity to implant components
- m. Abnormal values for BUN, serum calcium or creatinine
- n. Anticoagulation therapy
- o. Granulocyto penia
- p. Hemophilia
- q. Regional enteritis
- r. Thyroid or parathyroid disease

5. Packaging

Surgical Tools and Accessories have been cleaned and packaged for convenience and immediate use. They are provided in a sealed polybag. The label on the outer packaging contains a lot number that should be recorded in the patient's file to ensure complete traceability of the product.

6. Warnings and recommendations for disinfection, desiration

a. General Warnings:

- i. The surgical tools and accessor es must be disinfected, cleaned and sterilized by trained and salifue staff
- ii. Check for the presence, the chammess, the operational state and the qualification (cal pration maintenance, etc.) of all the necessary material before starting the leaning and sterilization cycle.
- iii. The handling of contaminated devices must be done by using personal protective e uipment (gloves, glasses, mask, etc. ...).
- iv. The kning, purkaging and sterilization process must be performed clean and inderly environment.
- V. Use coaning / disinfection products that are suitable for the surgical instruments and the materials they are made of. Do not use products containing chlorine, iodine, phenols, strong acids or alkaline (do not use sodium hypochlorite (bleach), oxalic acid, sodium hydroxide or hydrogen peroxide, or normal saline, beware of the too highly chlorinated tap water). Avoid any product containing aldehyde because of their ability to bind proteins.
- vi. For all products and materials (for cleaning / disinfection, washer-disinfector, ultrasound vat, sterilization pouch, autoclave etc.), carefully follow all manufacturer's instructions (dosage, soaking time, temperature etc. ...) and expiration dates.
- vii. For the washer-disinfector: Only use agents recommended by the manufacturer and prefer the use of slightly alkaline products (pH between 7 and 10.5).
- viii. Avoid as far as possible shocks and contacts with other instruments.
 - ix. Please clean products made from the same material in the same container.

x. Do not leave contaminated instruments to dry before the cleaning / sterilization cycle.

b. Cleaning

- i. As soon as possible after their use (if more than 30 minutes, wrap the instruments in a damp cloth to prevent debris / contaminants from drying), place the instruments in a suitable container, avoiding shocks, and transfer them to the area dedicated for the cleaning process. Arrange in a clean and adapted packaging, dismantled if necessary (in the case of the torque wrench) and completely soak the instruments in a freshly prepared disinfecting solution (according to solution's manufacturer instructions), without any bubbles (the use of an ultrasonic cleaner is also appropriate). Let the instruments soak until all visible residues have been removed. Rinse thoroughly under cool-to-lukewarm drinkable, tap water until the absence of chemical and / or other residues on the device.
- ii. Carefully remove all the post-operative revious (blood, bone, etc...) from the instruments (use a nylon brush incress ry) and from within (for products with an internal brigation of hollow products) by using a mild alkaline detergent that a strong one) or a neutral one. Rinse thoroughly (preferally use reionized water for the final rinse).
- iii. In case of a manual clean, g: It mediately after cleaning, dry all the instruments surface with a int-free clean absorbing paper by scrubbing care any or ith impressed air for medical use.
- iv. In case of a washar-defined infector: Immediately after cleaning, put the instruments in the washer-disinfector avoiding contacts between the docces an astart the cycle following the manufacturer's instructions and using the appropriate disinfecting / rinsing aids.
- v. Visual inspect the cleanliness and the absence of humidity or stains in the components and make sure that no deterioration may unect their safety, integrity or functionality. If necessary, repeat the cleaning cycle from point 6.b. Reassemble the instruments when needed. Put one or several products in a sterilization pouch, big enough so that no tension is applied upon closure.
- vi. Prior to surgical use, the components shall be rinsed with cool-to-lukewarm drinkable, tap water for 2.5 (two-and-one-half) minutes.
- vii. Place the components in an ultrasonic cleaner with an enzymatic detergent diluted with tap water per the manufacture's guidelines. Sonicate for 10 minutes and rinse with drinkable, tap water for three minutes.
- viii. Place the components in sterilization packets.

c. Sterilization

 The components shall be sterilized by moist heat (134°C for 6 minutes followed by 30min drying cycle) using standard hospital/clinic steam autoclaves suitable for medical devices

- sterilization. It is not recommended to use the surgical tools and accessories after more then 8 sterilization cycles. In any case, all components must be checked before use.
- ii. Verify the good progress of the cycle, the integrity of the pouches as well as the physico-chemical indicator of sterilization (if necessary, repeat the process from point 5.a.v). Indicate the sterilization date on every pouch (and any information necessary for the traceability), which will then be stored in conditions, preserving the products safety and sterility (a clean, dry, safe and stress-free place, at room temperature and out of direct sunlight).
- iii. Periodic testing, cleaning, and calibration of the autoclave equipment are recommended to ensure the unit remains in proper working order.

7. Storage

Store the sterilized instruments in a dry, clean and dust free environment at modest temperatures of 5°C to 40°C/41°F- 104°F. The products the to be eliminated are thrown away in sharp disposal containers.

8. Complications and Adverse Effects

The risks and complications with surgical tools undaccessories, prosthetics, and implants include, but are not limited to: (1) llerges reaction(s) to implant and/or abutment material; (2) implant and/or abutment breakage; (3) abutment screw and/or retaining screw loosening; (4) infection requiring revision of the dental implant; (5) nerve damage that addld a uses permanent weakness, numbness, or pain; (6) histologic responses loos by nvolving macrophages and/or fibroblasts; Short-term risks associated with the use of these products include anesthetic and surgical risks psychological and psychiatric risks, pain, gingivitis, speech problems. Long-term risks increde here damage, bone loss, local or systemic bacterial infections, infectious e docarditis.

The following table list the organ systems that may be affected together with the associated risks,

Organ System	Effect
Cardiovascular	Arrhythmias, coronary heart disease, cardiovascular failure
Respiratory	Chronic obstructive pulmonary disease
Gastrointestinal	Hepatitis, malabsorption, inflammatory bowel disease
Genitourinary	Chronic renal failure
Musculoskeletal	Arthritis, osteoporosis
Hematological	Anemia, leukemia, blood clotting disorders
Endocrine	Diabetes, thyroid diseases, pituitary and adrenal disorders

9. Change in performance

It is the clinician's responsibility to inform the patient about the precautions, side effects, and contradictions should the performance of the implant be in question. It is the responsibility of the patient to seek medical care if any of the side effects occur.

10. Properties of Products

The Surgical Tools and Accessories are constructed of the following materials:

a. Titanium Alloy: TI-6AL4V ELI ASTM F-136b. Stainless Steel: SS 316, SS 303, SS 17-4PH

c. Delarind. Silicon

11. eLabeling

The Instructions for Use can be accessed online by visiting BH's website. Additional translations are also available in electronic format for fown, add to request a paper copy of the Instructions for Use, send an email to the additional provided on the label and additional instructions will be provided. A laptor copy may also be requested, by phone, using the appropriate telephone number forces below.

12. Traceability

In order to guarantee the security of patients, the practitioner must keep the reference and batch number for all the products that has been set or used. These specifications are stipulated in the adhesive detachable labels on the BHI's products. Please to necrose any BHI's products when the packaging is damaged or when the label is uneadable.

This document can be provided in printed paper form at no additional cost within 7 days of request.

13. European representative

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Symbol	Description
NOM	Non sterile
STERRIZE	Do not re-sterilize
$\overline{\triangle}$	Caution, consult accompanying documents
<u></u>	Do not use if package is damaged
LOT	Batch Code
REF	Catalog number
EC REP	EC representative
Ronly	By Prescription Only

