# **BHI** implants Ltd.

INSTRUCTIONS FOR USE

Cyclone –

Dynamic and Conical Dental Implants



# WARNING:

BHI implants products are intended for use by adequately certified dentists with specific implant training.

The Implantation procedure shall be performed by using BHI implants prosthetics and surgical tools only.

### 1. Indications

The BHI implants Implant system is indicated for use in surgical an 'restorative' polications for placement in the bone of the upper or lower jaw, to provide su port for pro theirs devices, such as artificial teeth, in order to restore the patient chewing tections are all implants Implant System is also indicated for immediate loading when good primary stables in a chieved and with appropriate occlusal loadine.

# 2. Caution

Federal law (US) restricts this device for sale by, or on the order of, a physician

#### Note

Before use, it is necessary to ascertain if the patient has sufficient alveolar bone with support the implant. In addition, careful evaluation of the nerves, vital blood vessels, maxill y sinus, and soft tissue spaces relative to the proposed implant site, should be performed be reimplantation.

#### 3. Contraindications

- Pregnancy
- •Renal failure
- Steroid use
- Hypertension above
- 170/110 mm Hg

  Osteoradionecrosis
- Unexplained hypersensivity
- Unexplained hypersensivity
- Patients receiving corticosteroids anticonvulsives or
- immunosuppressive therapy
- Organ transplantation

- Fibrous dysplasia
- •Ehler-Danios syndrome Prophylactic antibiotics
- · Bone metabolism disorders
- · Hypersensivity to implant components
- Abnormal values for BUN, serum calcium or creatinine
- · Anticoagulation therapy
- Granulocyto penia
- Hemophilia
- Regional enteritis
- Thyroid or parathyroid disease

# - -

# Inserting the Implant

Screw the lower part of the implant into the drill.

After the initial 5.5 mm, the implant continues by threading, via cutting and compressing the bone.

# Immediate Loading

The BHI implants Implant System is also indicated for immediate loading when good primary stability is achieved and with appropriate occlusal loading.

# One Stage Procedure

When stabilization is adequate and a one stage protocol is desired, a BHI implants healing cap should be placed using the hexagonal 1.25mm driver. Use 30 Ncm to close the healing cap screw. The healing cap is left in place for the desired healing period (maximum 180 days).

#### Two Stage Procedure

After a post-operative integration period of approximately 12 weeks in the mandible and 24 weeks in maxilla, the implants may be exposed. Osseointegration is evaluated clinically in conjunction with radiographs

#### Restoration

The final restoration is provided according to the treatment plan, taking into account occlusal and aesthetic requirements. The appropriate abutment - standard or anatomic - is selected in relation to the tooth position for the proposed implant. The hexaponal 1.25mm driver is used to tiethen the abutment screw to 30 Ncm.

The standard abutments are symmetric in shape and may require modification by the dental technician in order to achieve proper fitting. The standard abutments are suitable for placement in the back teeth. The anatomic abutments allow for better achievement of individual aesthetics and adaption by the dental technician. The anatomic abutments are suitable for placement in the front teeth. If the treatment plan includes using anatomically-shaped abutments, such as the angled or straight abutments, the rotational position of the implant can be adjusted at the time of placement to ensure optimal positioning of the final abutment.

# 4. Risks

hort-term risks associated with the use of these products include anesthetic and urgina risks psychological and psychiatric risks, pain, gingivitis, speech problems. Log-term risks include nerve damage, bone loss, local or systemic bacterial

inferences, infectious endocarditis.

The following table lists the organ systems that may be affected together with the

ass ciate, risk

Organ syste	Effect
Cardiovasc	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

#### 5. Packaging & Sterility

BHI implants implants are delivered sterile. The intact sterile packaging protects the gammasterilized implant from outside influences and, if stored correctly, ensures sterility up to the expiration date. When removing the implant from the sterile packaging, the rules of asepsis must be observed. The sterile packaging must not be opened until immediately prior to insertion of the implant. Implants with damaged sterile packaging must not be used due to risk of contamination. It is recommended to have a replacement implant on half of the prior to the prior

The implant is for single use only and is not to be re-sterilized. Reuse of the device may cause contamination and/or cross-contamination to the patient as well as care givers involved (Dentist. Nurse. Technician)

# 6. Surgical Tools and Abutments Cleaning and Sterilization

Prior to surgical use, the components shall be soaked in a mild, ph-neutral detergent for 2.5 minutes followed by water rinsing, In addition the drills lumen shall by assisse, with hypoderic needle brushing the lumen (irrigation cannel) with a nylon brush for removing possible caught debris.

The components (drills, pins, abutments etc.) shall be sterilized w moist if it A<sup>2</sup>C for 6 minutes followed by 30min drying cycle judge standard hospital/or and sclaves for medical devices sterilization. It is not recommended to use the surgical tools at 78 shall proposed to the su

# 7. Changes in Performance

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

# 8. Surgical Procedure Drilling

Irrigate the area with surgical saline. To avoid trauma to adjacent structures such as sinular mental foramina, and mandibular canals, perform a radiographic exam of the proposed implantarea. Inspect the drill for damage or wear before each use.

# The drilling procedure is performed in two steps:

 Perform the initial drilling with 2 mm diameter bit, which is appropriate for implant lengths of 10 or 13 mm. The depth is determined by the clinician based upon the length chosen for the implant.

2. Insert the leading dowel into the drill. The dowel diameter is 2 mm and its length is 3 mm longer than the drilled hole. The dowel should be inserted to the end of the drill, so that they will project 3 mm above the hone.

The additional bits of 2.8, 3.6 and 4.2 mm diameter are of various shapes. Their use depends upon the implant type/size. Each is 8.5 mm in length. These bits are hollow and are attached over the dowels inside the drill to drill through the cortical bone to the maximum depth of 5.5 mm

### 9. Properties of Products

The implants and abutments are constructed of a Titanium Allov

Manufacturer BHI Implants Ltd. 2 Hamal St P.O.B 1063 Industrial park Afula 1857107, Israel TEL +972-4-6597812 10. European representative MedNet GmbH Borkstraße 10 48163 Münster Germany

Symbol	Description
STERILE R	Sterilized using gamma radiation
<b>®</b>	Do not reuse
8	Do not re-sterilize
	Caution, consult accompanying documents
2	Use by date
	Do not use if package is damaged
	Batch Code
REF	Cata og number
EC REP	Ec epresentative
Ronly	By Prescription Only