

HIOSSSEN

ESSET KIT

User Manual



Storage Condition :
Dry place at room temperature(1°C~30°C)



Caution, Consult
accompanying
Documents



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Rx only

For USA Only : Federal law restricts this
device to sale by or on the order of a dentist

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Manufacturer

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제조업자

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1. Description

ESSET KIT consists of Crest Remover, Saw and Expansion Drill for splitting and expanding the crest bone.

2. Indication for use

- 1) A device intended for use in dental implant operation.
- 2) It is intended for use in crest bone splitting and expansion in the narrow crest bone where normal implant operation is usually difficult.

3. Directions for use

- 1) It is an operation guideline for implanting 3 implants in the narrow crest bone.
- 2) Eliminate the bone width of the alveolar bone using a $\varnothing 7.0\text{mm}$ Crest Remove to form a minimum of 4mm horizontal bone mass. (If necessary, make an indentation on the implantation site with a 1.5mm distance from the adjacent teeth using the same Crest Remover.)
- 3) Select a $\varnothing 1.8\text{mm}$ Twist Drill appropriate for the length of fixture to be implanted (8.5, 10, 11.5mm) for initial drilling.
- 4) Make only a vertical incision by setting and rotating a $\varnothing 13.0\text{mm}$ Saw in the initially drilled hole, and make vertical incisions repeatedly as much as the number of holes left. Then, make an overall horizontal incision while moving the saw from the distal part to the mesial part of the vertically incised alveolar bone.
- 5) For areas close to the adjacent tooth, make an incision as safely and closely as possible using a $\varnothing 7.0\text{mm}$ Saw.
- 6) In case when the fixture to be implanted is F4.0, expand the alveolar bone gradually using an Expansion Drill up to I-III levels (I: $\varnothing 1.6/2.8 \rightarrow$ II: $\varnothing 2.2/3.6 \rightarrow$ III: $\varnothing 2.8/4.4$); in case of F4.5, up to I-IV levels (I: $\varnothing 1.6/2.8 \rightarrow$ II: $\varnothing 2.2/3.6 \rightarrow$ III: $\varnothing 2.8/4.4 \rightarrow$ IV: $\varnothing 3.2/4.7$). (The recommended rpm for the expansion Drill is 25-35rpm.)
- 7) Finally, the fixture is implanted.
- 8) Please refer to catalogues and operation manuals for details.

4. Contraindications

OSSTEM implants should not be used in cases where the remaining alveolar bone is too diminished to provide adequate width or height to surround the implant. Lack of osseointegration or subsequent implant failure may occur in cases where there is insufficient available bone, poor bone quality, poor oral hygiene, heavy smoking, tobacco abuse, or medical conditions such as blood disorders or uncontrolled diabetes.

5. Warnings

For safe and effective use of OSSTEM implants, it is strongly suggested that specialized training be undertaken since the surgical techniques required to place dental implants are highly specialized and complex procedures. Improper patient selection and technique can contribute to implant failure and/or loss of supporting bone. OSSTEM implants are intended for use only in the indicated applications. Dental implants must not be altered in any way. The use of electro-surgical instruments or lasers around metallic implants and their abutments is not recommended due to the risk of electric shock and/or burns. Implant mobility, bone loss, or chronic infection may indicate implant failure. If the implant becomes contaminated by the patient's bodily fluids in any way, the implant cannot be used in any other patient.

6. Cautions

- When drilling, move the hand piece perpendicularly up and down in a pumping motion.
- To reduce the friction during drilling, use a constant spray of saline solution.
- If an excessive torque over 50Ncm is developed or the bone is very hard in a single case during the alveolar bone expansion using an expansion drill, try to use one level higher Expansion Drill (IV: $\varnothing 3.2/4.7$) for the alveolar bone expansion. (But, when the alveolar bone expansion is difficult due to clinical circumstances, the vertical incision of the alveolar bone may be necessary.)
- Recommended number of use: saw - 10 times; drill / drivers - 50 times

7. Precautions after using the kit

- Separate all used tools immediately after surgery and after cleaning and drying, store at room temperature.
- Do not leave the instruments in a place vulnerable to contamination.
- Be sure to sterilize surgical tools in the autoclave (132°C for 15 minutes) before each new surgical procedure.
- Do not use hydrogen peroxide as a disinfectant or cleaner (it may cause damage or discoloration of the TiN Coating, laser marking and color coding).
- This product comes with a 1 year warranty from the date of purchase.

8. Device Information

For device information such as part name, date of manufacture and lot number refer to the label on the package.

*Note: For general information on implants, see catalog, prosthetic manual, surgical manual and other related data.