

Instruction for Use

1. Product Description

This product is a drill bit attached to an implant handpiece and used to remove bone tissue during implant surgery.

2. Intended Use

Dental Implant Surgical Drill: This device is intended to be attached to a surgical handpiece and used for the removal of bone tissue during endosseous dental implant procedures.

3. Sterility

- This product must be sterilized in an autoclave at 132°C exposure for 15 minutes with 15 minutes minimum drying time.

4. Procedure

A. Preparation Before Use

- Surgical techniques for dental implants require specialized and complex procedures, so relevant formal education and training for implant procedures are needed.
- Dental instruments are user-sterilized medical devices and should be sterilized in an autoclave at 132°C for 15 minutes and dried for 15 minutes before use.

B. Applications

(1) Dental Implant Surgical Drill:

- ① Stopper Drill (Ø2.2): Used for initial drilling at the desired implant placement site. It has a lateral cutting function, allowing for path correction.
 - Recommended usage speed for Stopper Drill: 1,200-1,500 rpm for hard bone and normal bone, 800-1,200 rpm for soft bone.
- ② Stopper Drill (F3.5 / F4.0 / F4.5 / F5.0): Used for drilling to the diameter and depth suitable for the implant to be placed.
 - Recommended usage speed for Stopper Drill: 1,200-1,500 rpm for hard bone and normal bone, 800-1,200 rpm for soft bone.
- ③ Cortical Drill: Used after forming the final drill hole in hard bone.
Recommended usage speed for Cortical Drill: 800-1,200 rpm.
- ④ Lance Drill: Used for initial formation of the implant placement hole. Its thin, pointed tip allows for marking the desired placement position and piercing the bone.
- ⑤ Straight Drill: Used for drilling to the diameter and depth suitable for the implant to be placed.
 - Recommended usage speed for Straight Drill: 1,200-1,500 rpm for hard bone and normal bone, 800-1,200 rpm for soft bone.

C. Management after use

- After the procedure, all used instruments should be immediately disassembled, washed under running water, dried, and stored at room temperature.
- Do not store in areas with potential for contamination.

5. Warning

- Implants must be placed by an experienced dentist, as improper techniques can cause damage to the implant or surrounding bone tissue.
- Improper patient selection and procedure may lead to implant surgery failure or bone loss.

- Movement of the implanted implant, bone loss, and chronic infection can lead to implant surgery failure.

6. Caution

- Contaminated products due to use error during the procedure should not be used.
- Recommended usage limit for drill is 50 times
- If the recommended number of uses for a drill is exceeded, implant failure may occur due to bone heating caused by reduced cutting efficiency of the drill; therefore, adhere to the recommended number of uses.
- This product is a user-sterilized medical device and should be sterilized in an autoclave at 132°C for 15 minutes and dried for 15 minutes before use.
- Hydrogen peroxide, used as a disinfectant and cleaning agent, is prohibited as it can cause damage or discoloration to TiN-coating, laser marking, and/or color coding.

7. Contraindication

Do not use in the following patients:

- Patients with a history of heart attack or arteriosclerosis
- Patients who are uncooperative or who have mental or physical disabilities that may cause instability, fixation failure or other complications regarding the implant during post-surgical management.
- Patients with conditions affecting bone formation, microcirculation, or blood.
- Pregnant patient.
- Patients with hypertension or diabetes.

8. Storage

Store at room temperature (1~30°C).

9. Disposal

Follow local regulations and laws for the disposal of medical devices.



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