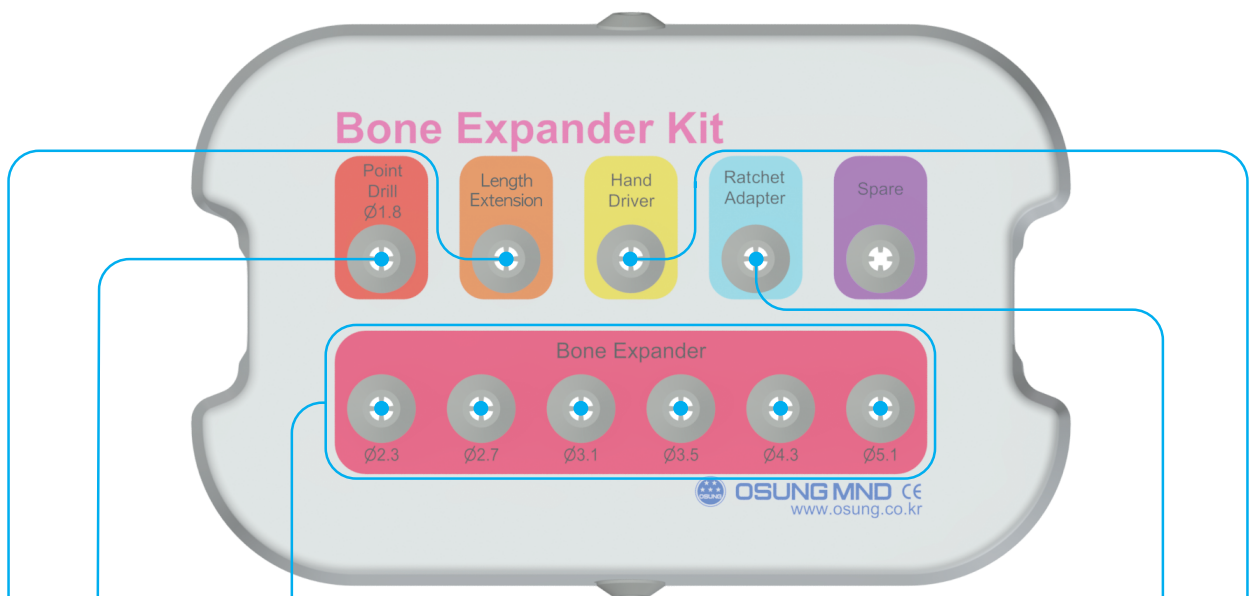


Bone Expander Engine Kit

- It is type to connect **handpiece**.
- Used for expanding bone width **in case of narrow alveolar bone**.
- Used to get stable osseous tissue by compressing bone toward lateral **in case of difficult to get initial fixation due to low bone density**.
- How to choose the final size of expander?
 - 1) **Normal bone density** : choose the **same size** with the fixture size.
 - 2) **Poor bone density** : choose **two step smaller size** than the size of fixture.



Expander

• First, use a point drill to make a position. Then use the smallest size, 2.3mm expander with 50rpm in action of that it goes into & out of the bone repeatedly. After that gradually use larger expander.

	BEPDE23	BEPDE27	BEPDE31	BEPDE35	BEPDE43	BEPDE51
Apical	ø 1.0	ø 1.4	ø 1.8	ø 2.2	ø 3.0	ø 3.8
Diameter	ø 2.3	ø 2.7	ø 3.1	ø 3.5	ø 4.3	ø 5.1

(mm)



Point Drill ø1.8 (PDP18)

Used to mark position where fixture is to be placed.



Ratchet Adapter (ADRC)

Connecting adapter for ratchet wrench.



Length Extension (EXTEG)

Used to extend the length of the expander.

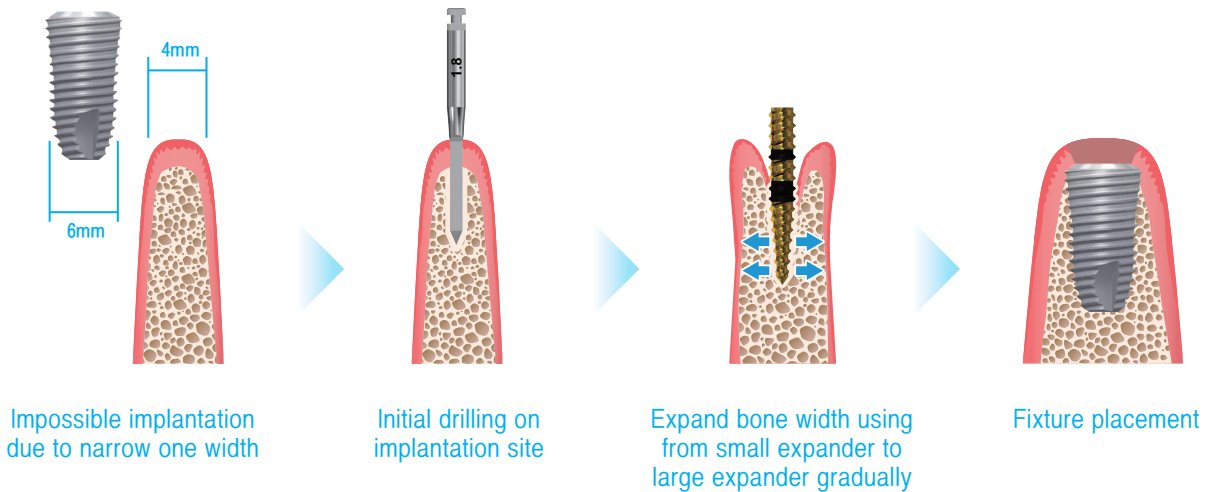


Hand Driver (HDREG)

Used to tighten or loosen the expander by finger instead of ratchet wrench.

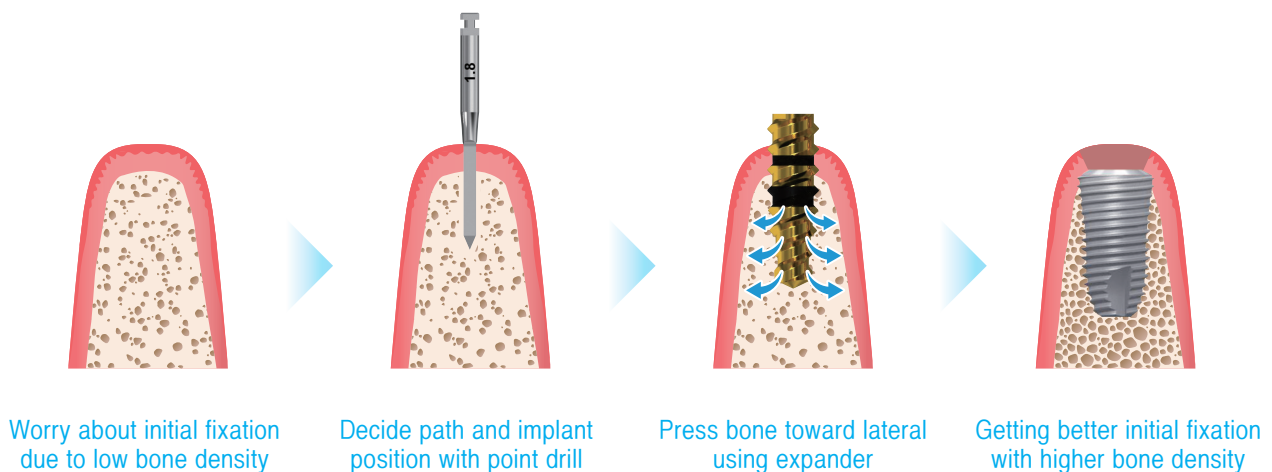
Practice 1 . Use for expanding bone width in case of narrow alveolar bone.

1. Do drill by proper depth using point drill at implant site. (800~1,200 rpm)
2. Expand the bone by the desired size using from small expander to large expander gradually.
 - After drilling, cut the bone with a disk(saw). Then use the bone expander.
 - Use ratchet wrench when expanding and hand wrench when taking out expander.

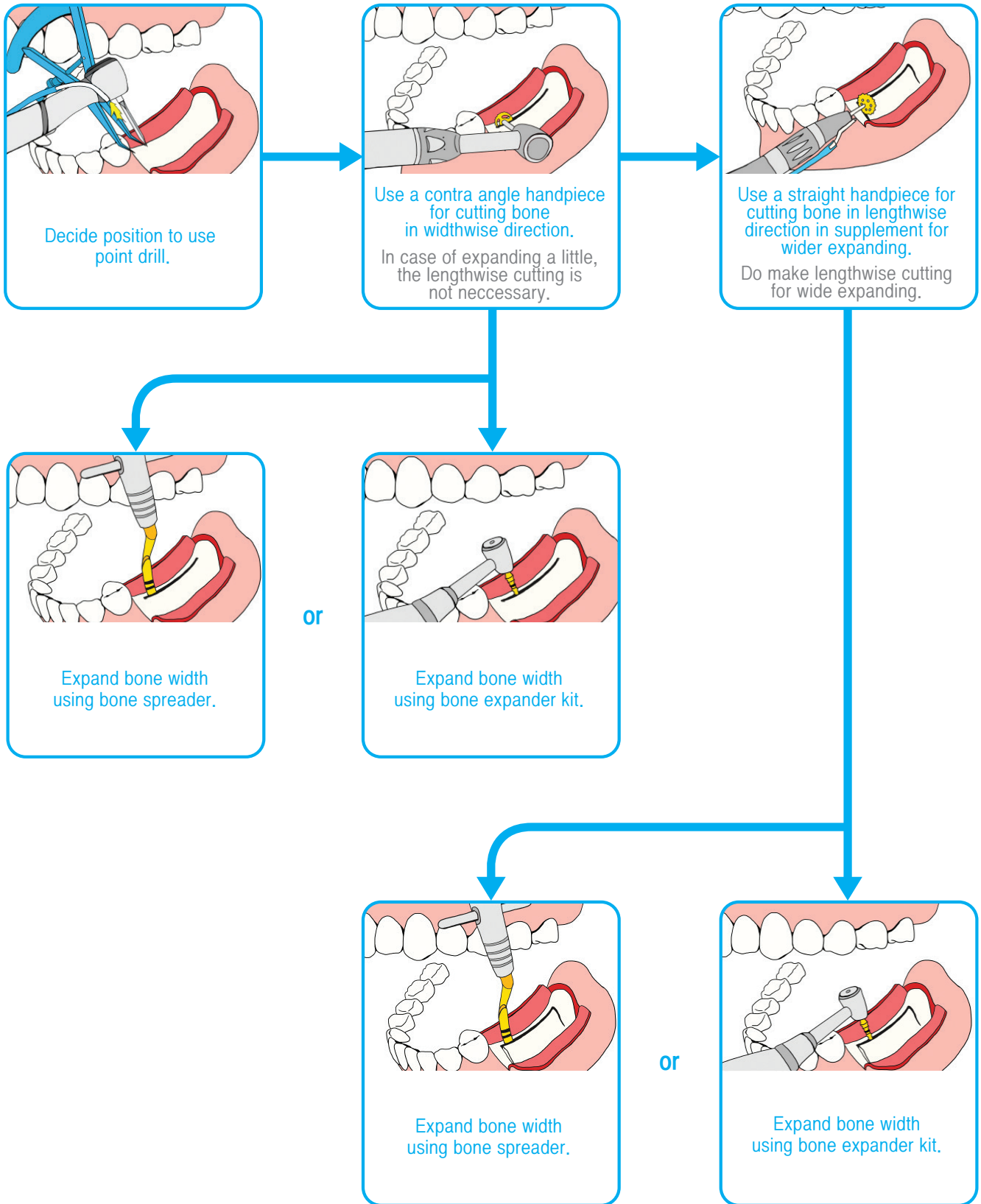


Practice 2 . Use for stable osseous tissue with pressing bone toward lateral in case of difficult to get initial fixation due to low bone density.

1. Do drill by proper depth using point drill at implant site. (Engine speed : 800~1,200 rpm) .
2. Insert fixture after expanding the bone by the desired size using from small screw to large screw gradually.
3. Please check whether bone is pressed too much.
(Need to cut bone surface using reamer if bleeding is not occurred.)



Practice 3. Diagram of ridge split



Preparation

1. Carefully check all product surface if there are any deformation, pin holes and foreign substance.
2. Sterilization(Autoclave: Sterilization at 132°C for 15mins, Dry 30mins.). Follow the manufacturer's sterilization method and operating instructions. Place all instruments avoid contact each product surface by using sterilization wrap.

Storage and keeping conditions

1. After use, rinse with a cleaner or disinfectant to remove blood or foreign materials with a hand or a ultrasonic washing machine. Completely open the instrument having overlapping area before start the cleaning steps.
2. Use only disinfectant for a short-term exposure time((30mins). Please note that a longer immersion time than the recommended time may result the corrosion.
3. Clean the expanders separately to prevent cutting-edges from getting dull.

Cautions in use or precaution in use

1. The sterilizer manufacturer's instructions should be followed in order to avoid staining when the instrument is sterilized. Keep the cover closed until the steam is completely removed.
2. Do not use the product other than the intended purpose, store at room temperature, away from direct sunlight.

Model name, Product name, Intended purpose

Model name : BEPD2

1. Endosseous dental implant hand instrument, An instrument that is used for dental implant surgery.
2. Endosseous dental implant drill, A device that is used to delete the bone by adhering to a handpiece for implant during implant surgery.

Non-sterile medical device



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