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Multi-Functional Sinus™ Kit

MFS Kit



CWM

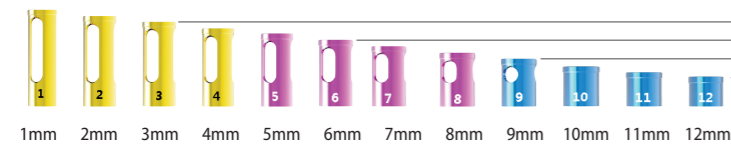
Cowellmedi Co., Ltd.

The pioneers in Dental Implant & E.rhBMP-2

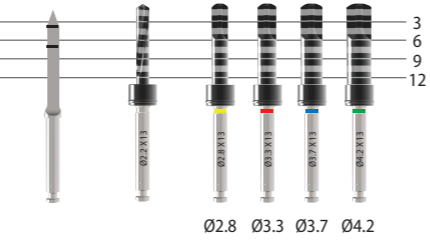
Multi-Functional Sinus™ Kit
MFS KIT [KSA004]

> A comprehensive kit to approach direct & indirect maxillary sinus lift simply.

Crestal Drill Stopper



Point Ø2.2 Crestal Drill



Aqua Lifter



Aqua Ratchet Connector



Aqua Syringe Connector



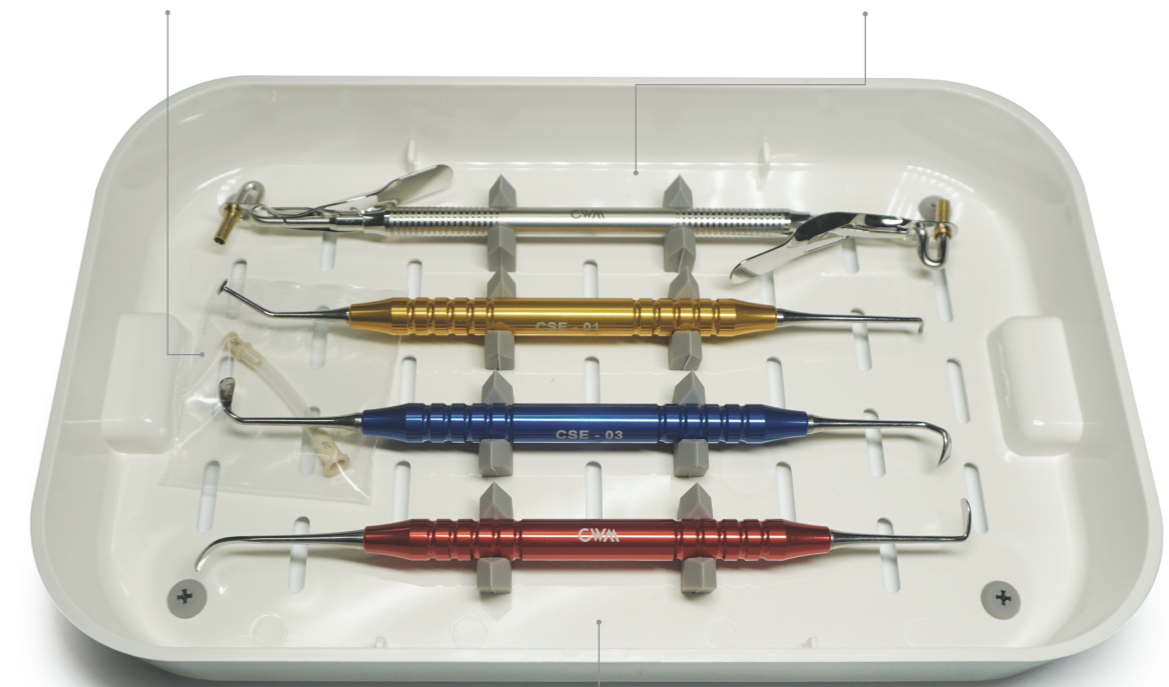
Bone Carrier



Aqua Tube



Bone Condenser



Lateral Stopper



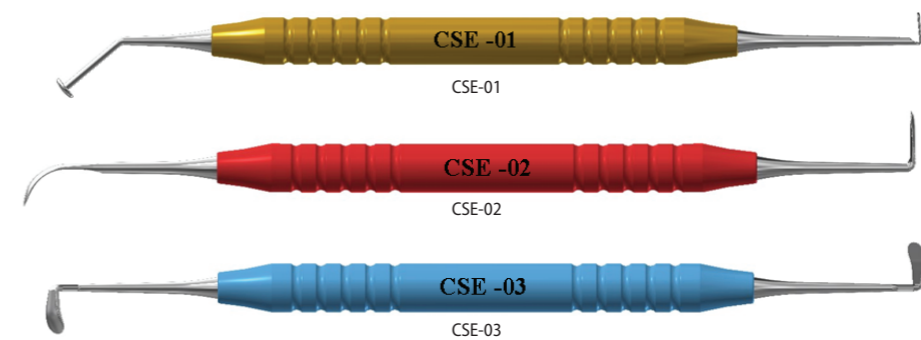
Lateral Drill



Side Cutter



Sinus Elevator



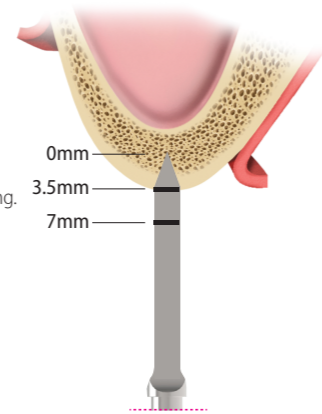
Crestal Approach - Components

1. Point Drill 800~1,000 rpm

- > Use to mark the point of perforation on cortical bone.
- > In the case of the remaining bone height is as low as 3.5mm, pay more attention when drilling.



Code KPD01S

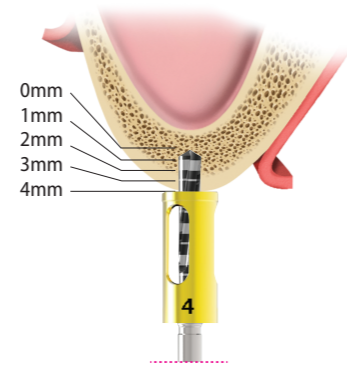


2. 2.2 Twist Drill 800~1,000 rpm

- > Use for making guide hole before using the Crestal Drill.
- > Connect the Crestal Drill Stopper according to the height of the remaining bone.



Code KSTD22

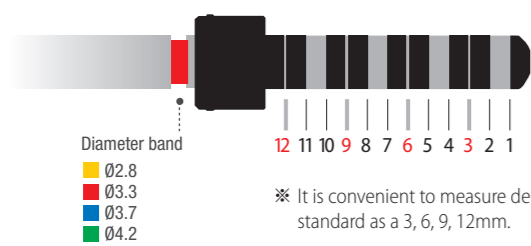


3. Crestal Drill 400~800 rpm

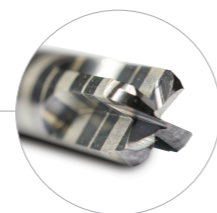
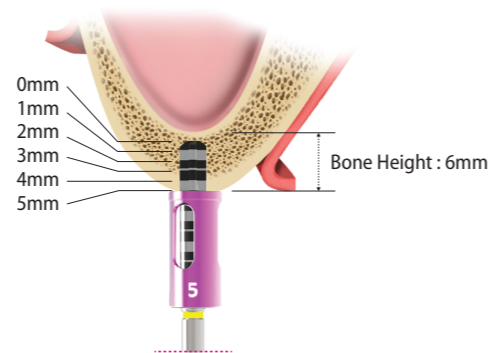
- > Use the Crestal Drill sequentially according to the diameter of the fixture to be placed.
- > Can also be used if sinus floor is flat, incline, septum.
- > The Crestal Drill can be used about 50 times (depending on bone quality).



Fixture Dia.	Ø3.3	Ø3.5	Ø4.0	Ø4.5 / Ø5.0
Diameter	Ø2.8	Ø3.3	Ø3.7	Ø4.2
	KSCD28	KSCD33	KSCD37	KSCD42



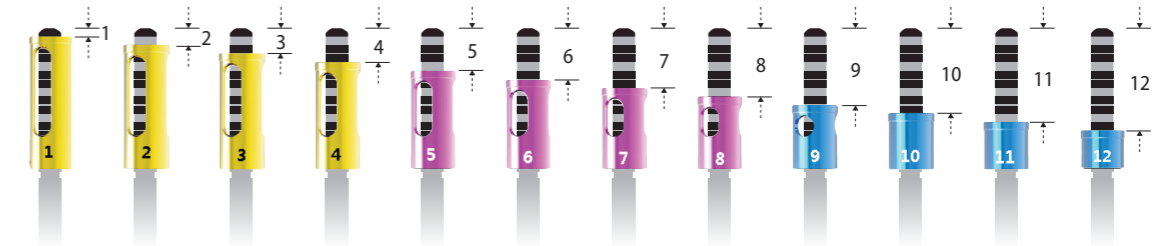
※ It is convenient to measure depth by standard as a 3, 6, 9, 12mm.



※ Flat floor edge minimize damage to membrane.

4. Crestal Drill Stopper

- > Connected with a stopper to be drilled to the same length of the cartilage height of maxillary sinus which is measured by CT.
- > If not equipped with CT, fasten the stopper one step lower than expected and gradually increase the length.

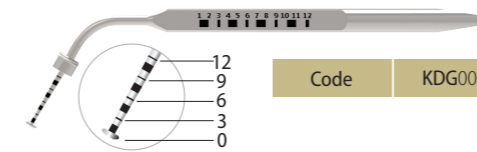


Drilling Depth	1mm	2mm	3mm	4mm	5mm	6mm
	KSDS01	KSDS02	KSDS03	KSDS04	KSDS05	KSDS06

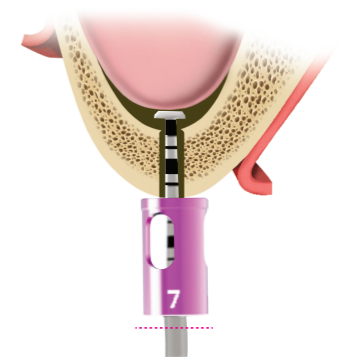
Drilling Depth	7mm	8mm	9mm	10mm	11mm	12mm
	KSDS07	KSDS08	KSDS09	KSDS10	KSDS11	KSDS12

5. Depth Gauge

- > Measure thickness of the residual bone after checking the perforation of the cartilage of the maxillary sinus (do not open completely, only the entrance side should be opened).
- > The stopper is attached to the base of the residual bone to separate the cartilage and membrane from the maxillary sinus.



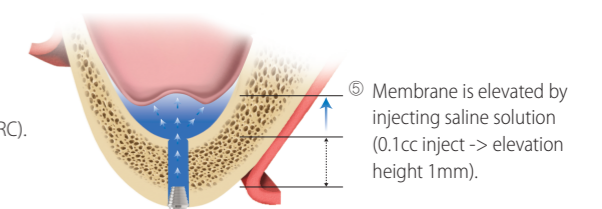
Code KDG001S



6. Aqua Membrane Lifter System

- > After confirming that elevation of the cartilage of maxillary sinus, elevate membrane with the Aqua Membrane Lifter System.

- Fasten the Aqua Lifter Drill to the drilled hole.
- Connect the Aqua Tube to syringe using the Aqua Syringe Connector (SC).
- Inject saline solution equal to the amount of bone graft material to be used for syringe.
- Tube connection to the Aqua Lifter Drill using the Aqua Ratchet Connector (RC).
- Inject saline solution.



⑤ Membrane is elevated by injecting saline solution (0.1cc inject -> elevation height 1mm).

※ After injecting 0.2~0.5cc and pressure is applied, measure the volume of injection and height of elevation.

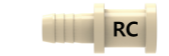
※ After elevation, injected saline solution and blood are mixed.

Aqua Lifter Drill



Code KSAL01

Aqua Ratchet Connector



Code KSAL01RC

Aqua Syringe Connector



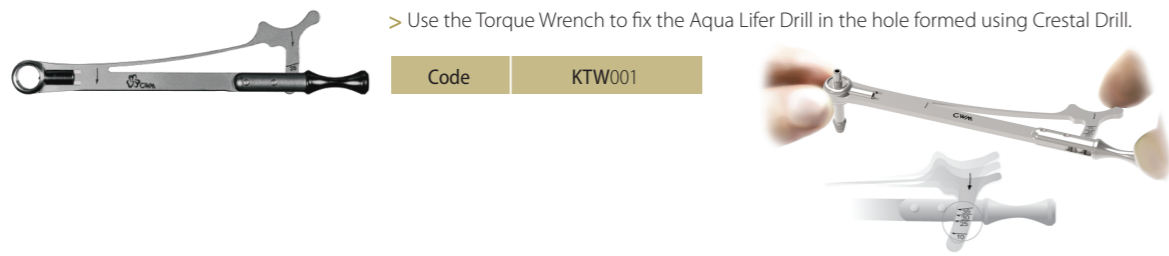
Code KSAL01SC

Aqua Tube



Code KSALT030

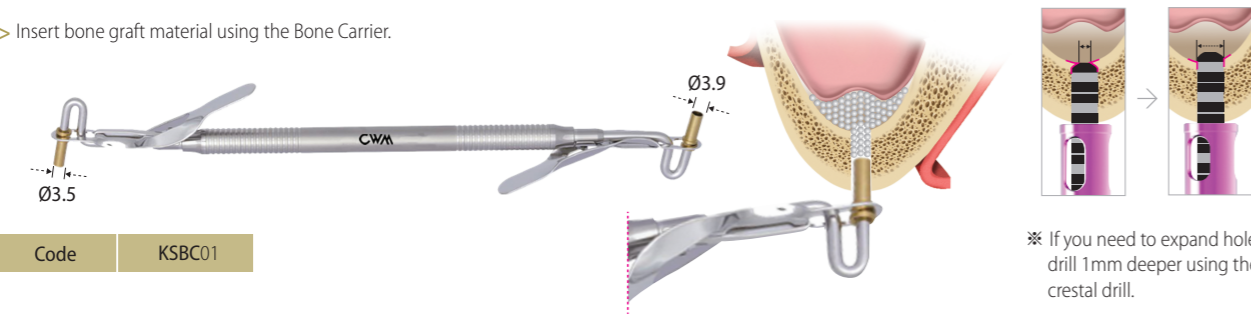
7. Torque Wrench



Code KTW001

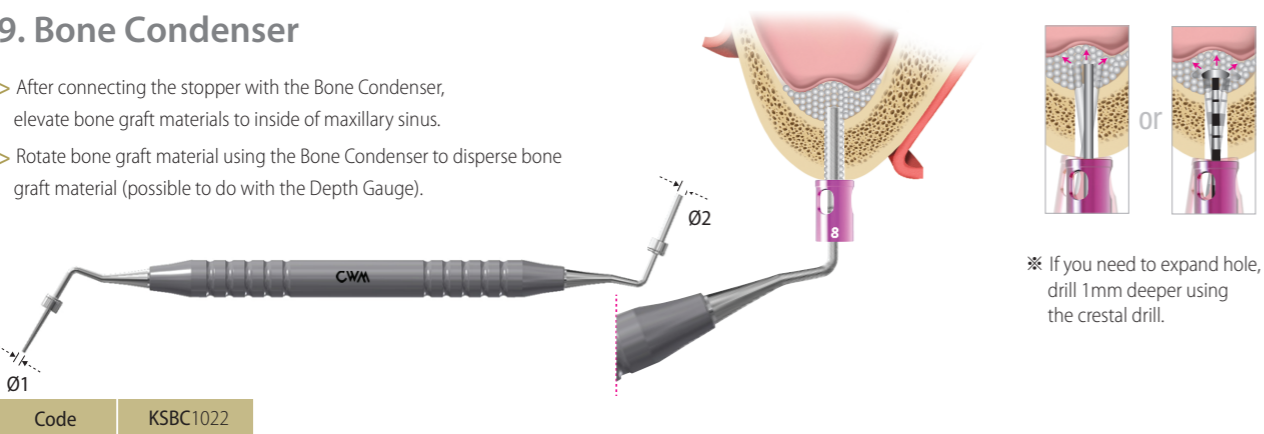
8. Bone Carrier

> Insert bone graft material using the Bone Carrier.



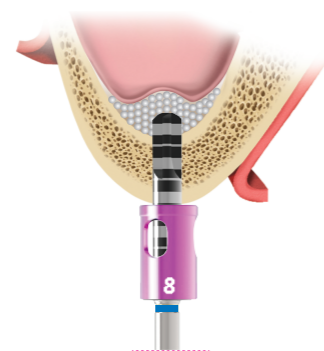
9. Bone Condenser

> After connecting the stopper with the Bone Condenser, elevate bone graft materials to inside of maxillary sinus.
> Rotate bone graft material using the Bone Condenser to disperse bone graft material (possible to do with the Depth Gauge).



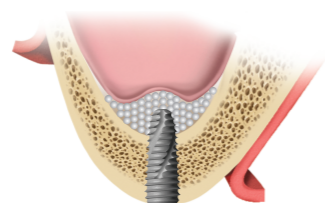
10. Implant Drill (Final)

> Drill 1~2mm more deeply than steps of the Crestal Drill.



11. Implant Placement

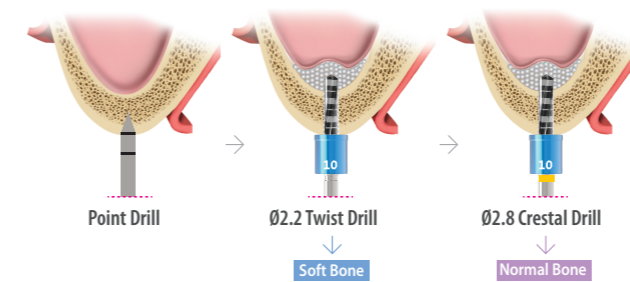
> If the residual bone is less than 3mm, do not implant the fixture, but bone graft only.



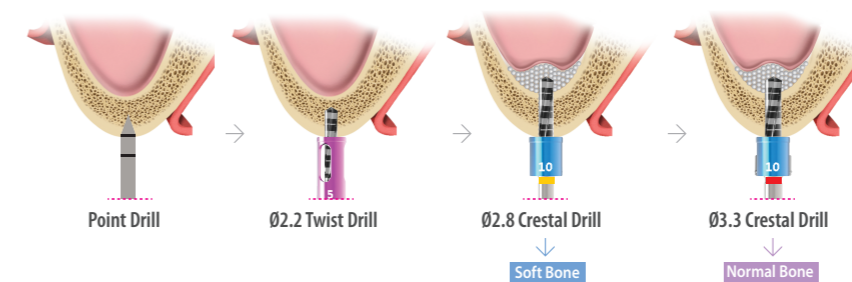
Crestal Approach - Drilling Sequence

> Placing implant over $\varnothing 4.0$ is highly recommended.

1. $\varnothing 3.3$ Narrow Fixture



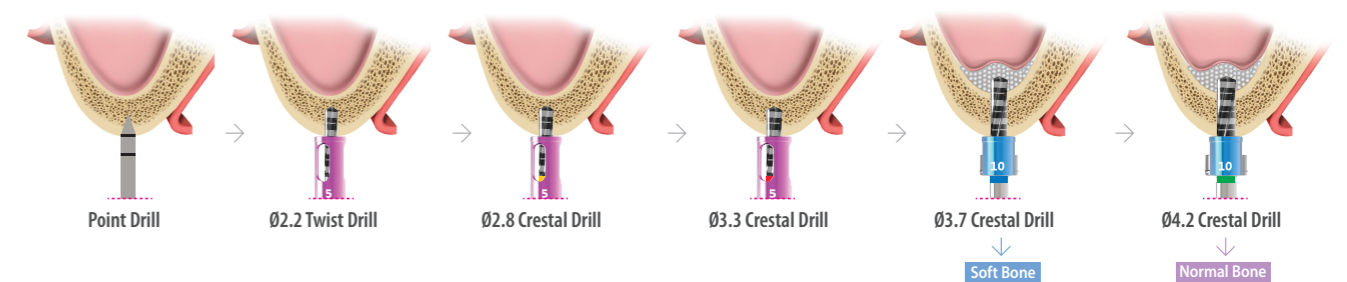
2. $\varnothing 3.5$ Fixture



3. $\varnothing 4.0$ Fixture



4. $\varnothing 4.5$ Fixture



※ $\varnothing 5.0$ Fixture Normal Bone : Drilling with the Final Drill before placing implants are required.

※ Use a Drill that is one step shorter than the implant (E.g. 10mm implant, 8~9mm Drill).

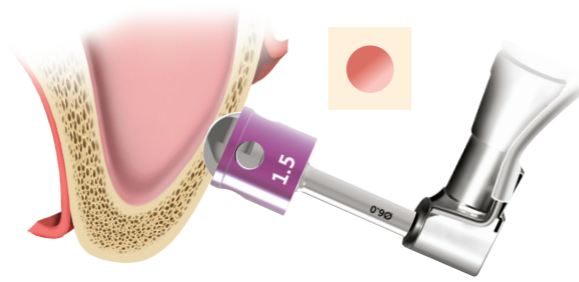
Lateral Approach - Components

1. Ø6 Lateral Reamer 800~1,000 rpm

- > Drill after fastening the stopper according to the height of the bone.
- > Round shape to prevent membrane perforation.



Code KSLD60

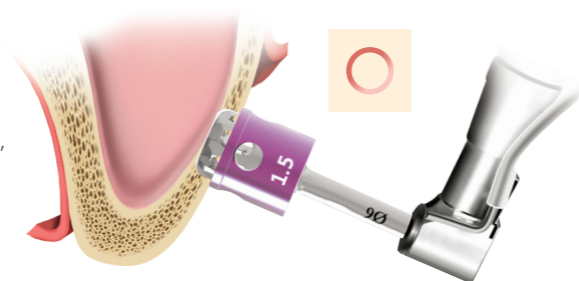


2. Ø6 Lateral Round Drill 800~1,000 rpm

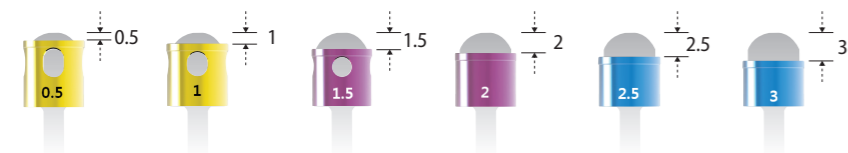
- > Drill after fastening the stopper according to the height of the bone.
- > Round shaped edge.
- > The residual bone should be replaced in the original position after drilling, sinus lifting & augmentation.



Code KSLRD60



3. Lateral Stopper



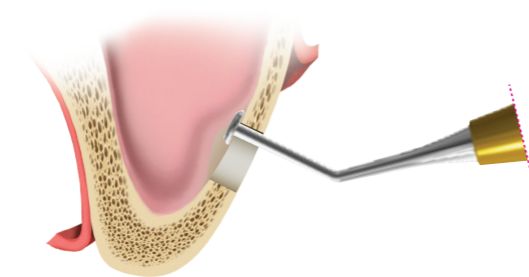
Drilling Depth	0.5mm	1mm	1.5mm	2mm	2.5mm	3mm
	KSDSL05	KSDSL10	KSDSL15	KSDSL20	KSDSL25	KSDSL30

4. Sinus Elevator

- > CSE-01 : Initial elevation of sinus membrane.



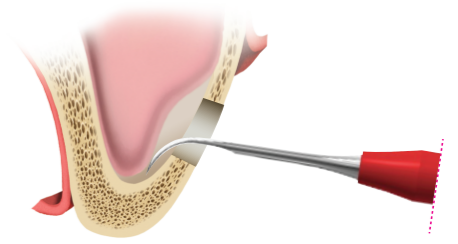
Code KSSE01



- > CSE-02 : as stepwise, after using CSE-01, used for elevation of sinus membrane.



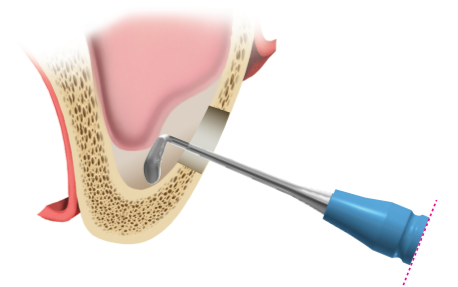
Code KSSE02



- > CSE-03 : as stepwise, after using CSE-02, used for elevation of sinus membrane.



Code KSSE03

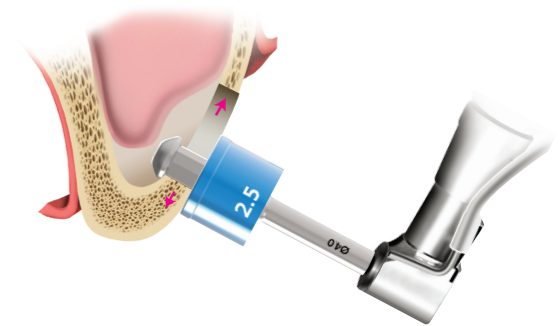


5. Ø4 Side Cutter 800~1,000 rpm

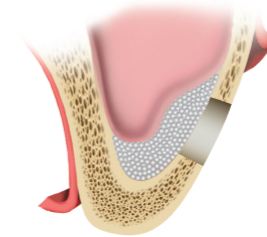
- > When you expand window, must be connected with Stopper.



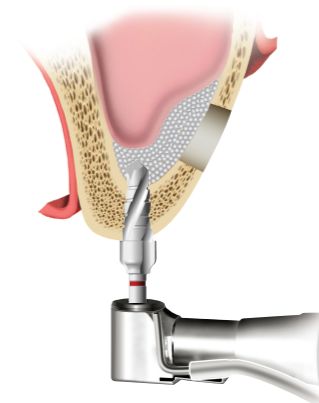
Code KSC60



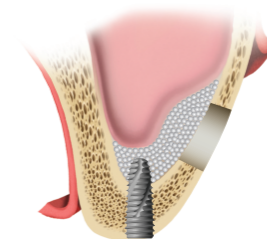
6. Sinus Bone Graft



7. Implant Drill (Final)



8. Implant Placement



MFS Kit (Multi-Functional Sinus™ Kit)

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