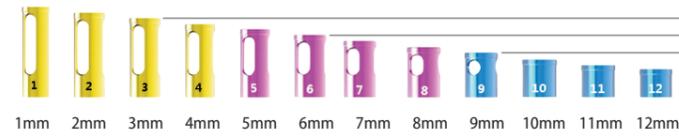


MFS KIT

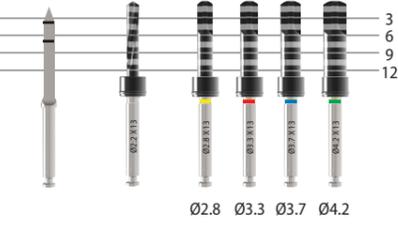
Multi-Functional Sinus™ Kit
[KSA004]

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

Crestal Drill Stopper



Point Ø2.2 Crestal Drill



Aqua Lifter



Bone Condenser



Depth Gauge



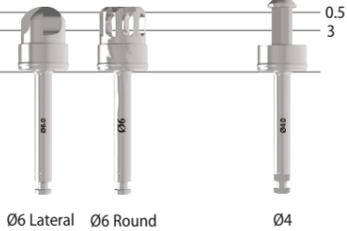
Torque Wrench



Lateral Stopper



Lateral Drill Side Cutter



Aqua Ratchet Connector



Aqua Syringe Connector



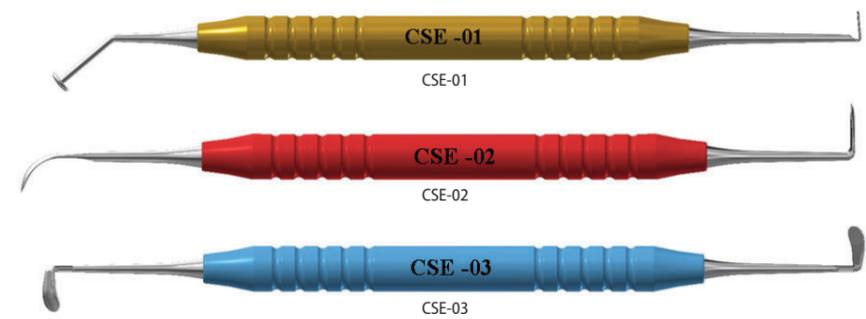
Bone Carrier



Aqua Tube



Sinus Elevator



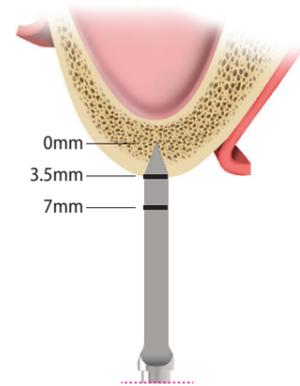
Crestal Approach - Components

1. Point Drill 800~1,000 rpm

- > 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 to drilling.



Code KPD01S

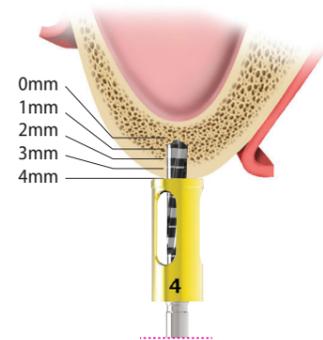


2. 2.2 Twist Drill 800~1,000 rpm

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

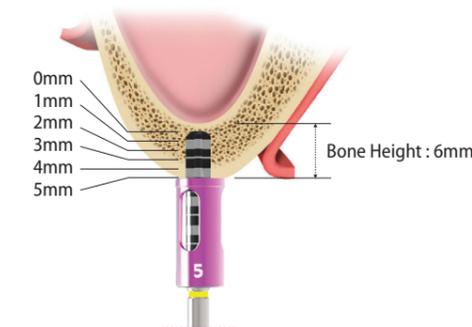


Code KSTD22

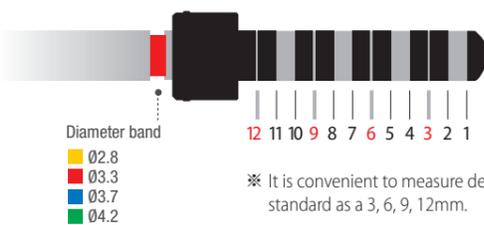


3. Crestal Drill 400~800 rpm

- > 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).



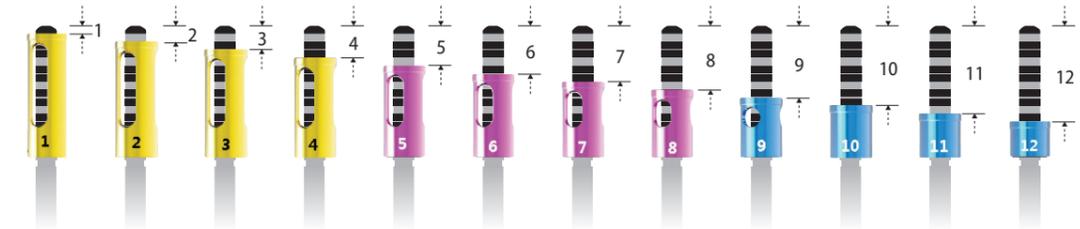
| Fixture Dia. | Ø3.3 | Ø3.5 | Ø4.0 | Ø4.5 / Ø5.0 |
|--------------|--------|--------|--------|-------------|
| Diameter | Ø2.8 | Ø3.3 | Ø3.7 | Ø4.2 |
| | KSCD28 | KSCD33 | KSCD37 | KSCD42 |



※ 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.

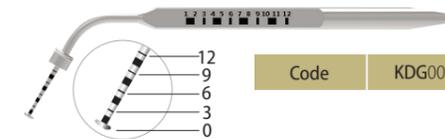


| Drilling Depth | 1mm | 2mm | 3mm | 4mm | 5mm | 6mm |
|----------------|--------|--------|--------|--------|--------|--------|
| | KSDS01 | KSDS02 | KSDS03 | KSDS04 | KSDS05 | KSDS06 |

| 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 is opened).
- > The stopper is attached to the base of the residual bone to separate the cartilage and membrane from the maxillary sinus.



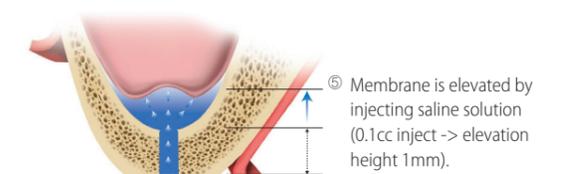
Code KDG001S



6. Aqua Membrane Lifter System

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

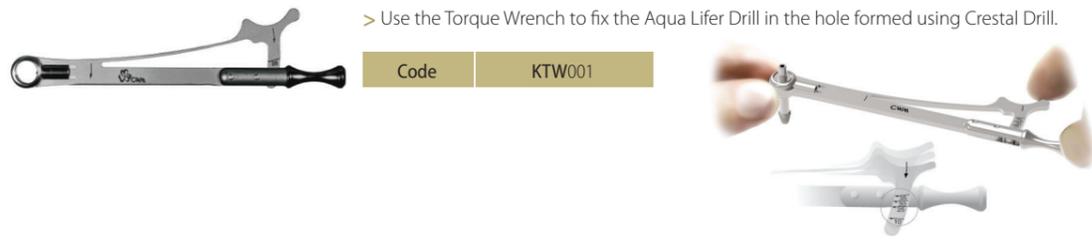
- Fasten the Aqua Lifter Drill to the drilled hole.
- Connect the Aqua Tube to syringe using the Syringe Connector (SC).
- Inject saline solution to the amount of bone graft material to be used for syringe.
- Tube connection to the Lifter Drill using the Ratchet Connector (RC).
- Inject saline solution.



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

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

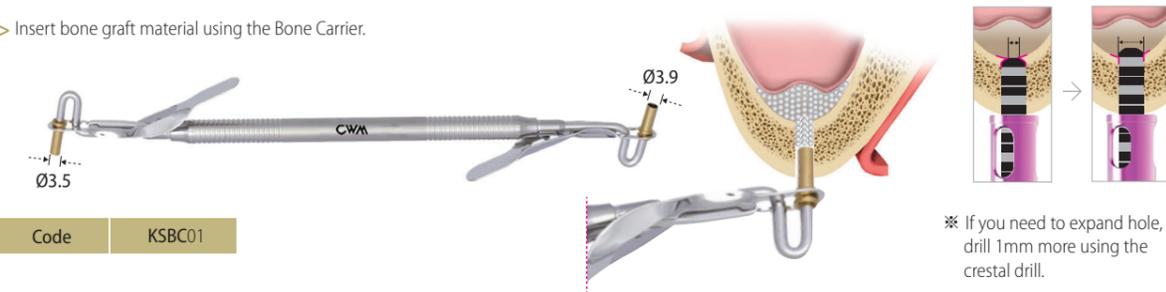
7. Torque Wrench



Code KTW001

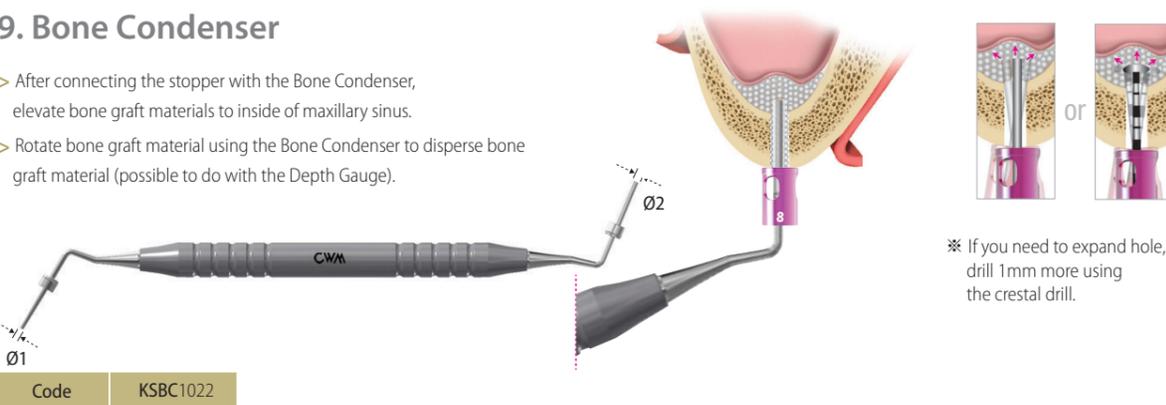
8. Bone Carrier

> 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).



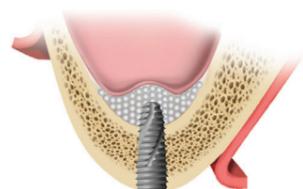
10. Implant Drill (Final)

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



11. Implant Placement

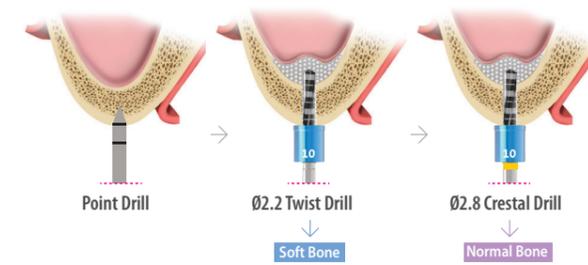
> If the residual bone is less than 3 mm, do not implant the implant, but bone graft only.



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).

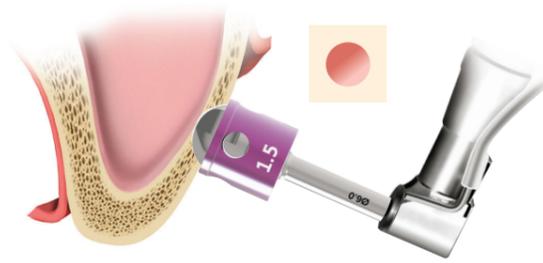
Lateral Approach - Components

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

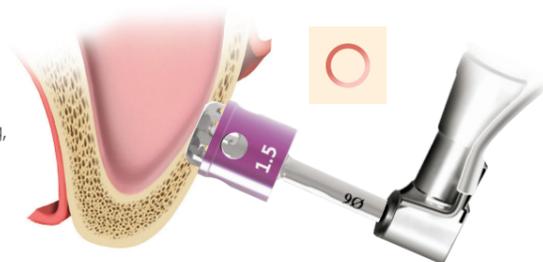


2. Ø6 Lateral Round Drill 800~1,000 rpm

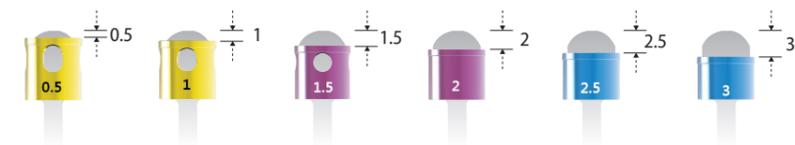
- > Drill after fastening the stopper according to the height of the bone.
- > Round shaped edge.
- > The residual bone should be replaced in the original position after drilling, sinus lifting & augmentation.



Code KSLRD60



3. Lateral Stopper



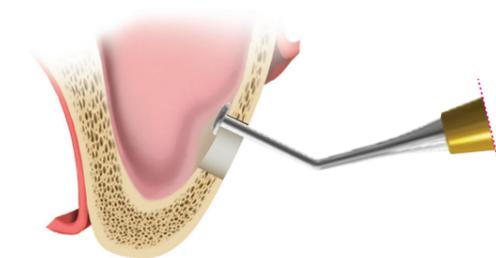
| Drilling Depth | 0.5mm | 1mm | 1.5mm | 2mm | 2.5mm | 3mm |
|----------------|---------|---------|---------|---------|---------|---------|
| | KSDSL05 | KSDSL10 | KSDSL15 | KSDSL20 | KSDSL25 | KSDSL30 |

4. Sinus Elevator

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



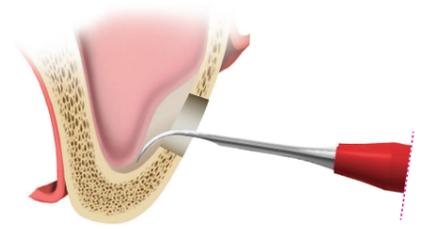
Code KSSE01



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



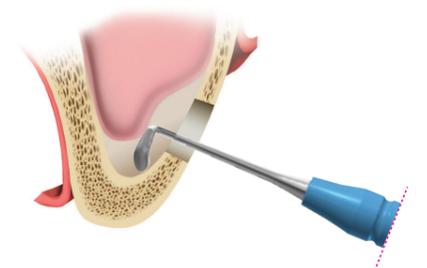
Code KSSE02



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



Code KSSE03

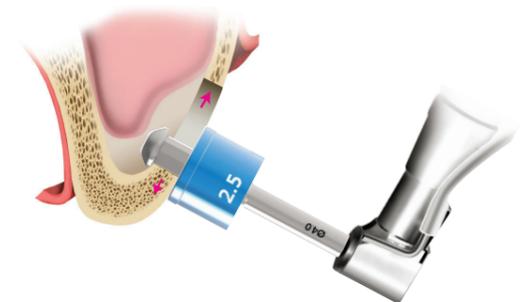


5. Ø4 Side Cutter 800~1,000 rpm

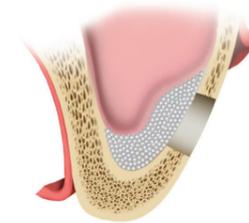
- > When you expand window, must be connected with Stopper.



Code KSC60



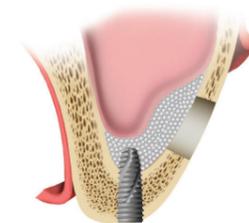
6. Sinus Bone Graft



7. Implant Drill (Final)



8. Implant Placement



Multi-Functional Sinus™ Kit

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