

# Crestal Approach Kit

OCA-KIT  
Video Clip



Water lift system is composed of A.I. Drill designed to decide the transmission of power by itself in reaction to the pressure delivered to the tip of the drill and Aqua-Lifter which is a sinus membrane lifting system by hydraulic power. Therefore water lift system can help dentists to do easy operation when dentists operate sinus membrane lifting.

- Dentists get same result in operation whoever operates as A.I. Drill makes drilling by depth by itself under in any bone tissue, bone inclination and bone depth.
- Hydraulic power lifting by pascal principal is safe as sinus membrane is lifted by same pressure.
- This system is designed under fully considered various treatment environment of sinus membrane. No matter what implant surgery will be done, it can be adopted by special and unique drills.

**1st** PILOT DRILL  $\phi 1.8$

**2nd** AI DRILL  $\phi 1.8$   
Drilling until AI DRILL automatically stops.

**3rd** CANNON DRILL  $\phi 2.4$   $\phi 3.2$   
Used optionally if necessary.

AQUA TAP  $\phi 3.15S$   $\phi 3.15$   $\phi 3.5$   
Lifting membrane off from bone by hydraulic pressure.

ACCESSORY  
HAND ADAPTER ENGINE ADAPTER HAND WRENCH

SENSOR GAUGE  $\phi 2.8$   
Confirming sinus inferior board perforation.

BONE CONDENSOR  $\phi 3.1 - \phi 2.7$   
Bone material packing

BONE CARRIER  $\phi 3.5 - \phi 3.9$   
Bone material carrying

**4th**

**Bone Carrier**  
Carry bone material to maxillary sinus.

**Sensor Gauge**  
To check perforation of sinus membrane by using compression of spring.

**Cannon Drill  $\phi 2.4$**   
Initial drill to access to the sinus before the use of A.I. drill.

**Cannon Drill  $\phi 3.2$**   
· Used for expanding hole size.  
· Can be used with a stopper.

**A.I. Drill**  
Drill stops automatically when the drill touches sinus membrane. (by 1,200rpm)

**Pilot Drill  $\phi 1.8$**   
To mark position of implant after confirmation of X-ray.

**Hand Adapter**  
It is used to fasten the aquatap to the ratchet wrench to extend its length when putting it up to the sinus inferior border.

**Engine Adapter**  
Adapter for connection Aquatap to the implant handpiece.

**Hand Wrench**  
It is mounted on the aquatap and used for fine adjustment of its height with the finger.

**Aquatap**  
Used for injecting saline solution or contrast medium into perforated maxillary sinus.

**Stopper 2mm ~ 10mm**  
Control depth.

	3.15S	3.15	3.5
Diameter	$\phi 3.15$	$\phi 3.15$	$\phi 3.5$
Length	28mm	33mm	33mm

# + Aquainjector



- Use together with disposable plastic syringe.
- Designed to generate hydraulic pressure strong enough for sinus lift. Also this device is intended for injecting liquid slowly to give membrane recovery-time from the strain formed inside.
- Possible to know the volume of space for bone grafting.

## Practice 1.

OCA-KIT  
사용동영상



01

### Pilot Drilling

- $\varnothing 1.8$  1,200rpm
- Mark a drilling position on the cortical bone with a pilot drill.



02

### Attaching a stopper

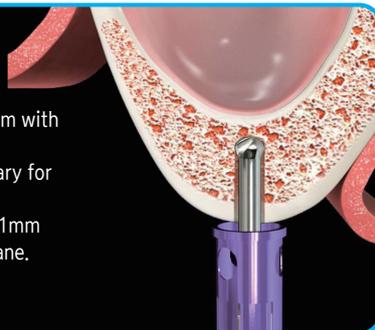
- Take a stopper which is 1mm longer in length than the length measured from alveola bone to sinus membrane.
- Then attach the stopper to the Cannon drill.



03

### Cannon Drilling

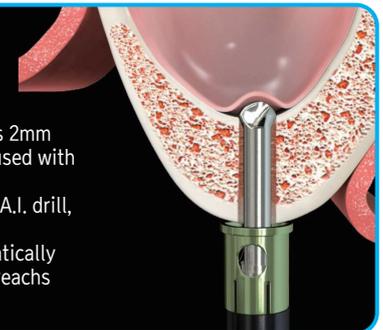
- Run the Cannon drill 2.4mm with stopper at 1,200rpm.
- Use 3.2mm drill if necessary for large hole.
- Drill by the spot which is 1mm away to the sinus membrane.



04

### A.I. Drilling

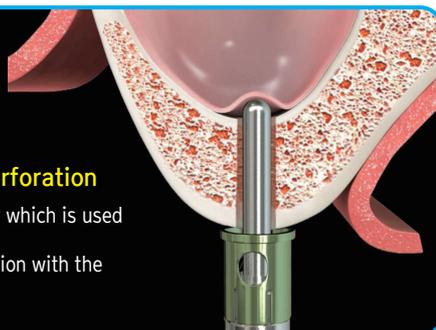
- $\varnothing 2.8$  1,200rpm
- Select the stopper which is 2mm shorter than the stopper used with Cannon drill.
- Attach the stopper to the A.I. drill, and run it at 1,200rpm.
- The A.I. drill stops automatically when the end of the drill reaches membrane.



05

### Checking the perforation

- Attach the stopper which is used with A.I. drill.
- Check the perforation with the sensor gauge.

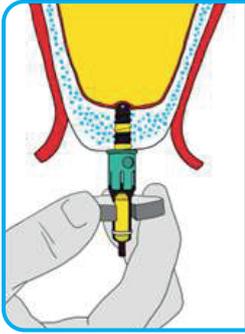


06

### Aqua Tapping

- $\varnothing 3.15 \sim \varnothing 3.5$  30rpm
- Attach the same stopper which is used with A.I. drill.
- Fix the Aqua tap into the bone by using a handpiece.

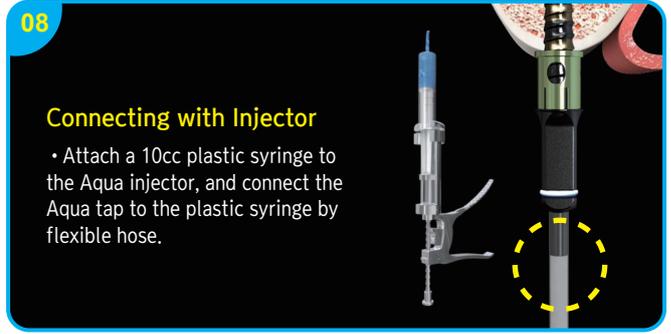




**07**

**Adjusting height of Aquatap**

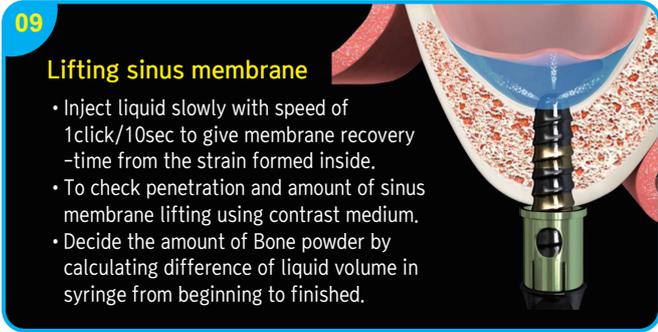
- To adjust height of Aquatap by finger minutely.
- Use with tube.



**08**

**Connecting with Injector**

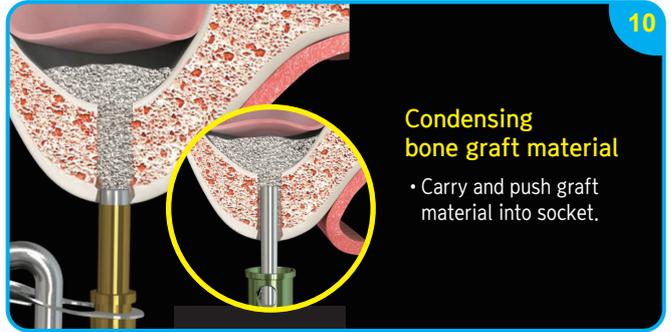
- Attach a 10cc plastic syringe to the Aqua injector, and connect the Aqua tap to the plastic syringe by flexible hose.



**09**

**Lifting sinus membrane**

- Inject liquid slowly with speed of 1click/10sec to give membrane recovery -time from the strain formed inside.
- To check penetration and amount of sinus membrane lifting using contrast medium.
- Decide the amount of Bone powder by calculating difference of liquid volume in syringe from beginning to finished.



**10**

**Condensing bone graft material**

- Carry and push graft material into socket.