



CAS-KIT

<http://Shvetak.com>

Easy-To-Learn Sinus Lift Technique

HROSSEN
IMPLANT

Reduced Chair Time ✓
Reduced Complications ✓
Reduced Patient Discomfort ✓



CAS -KIT

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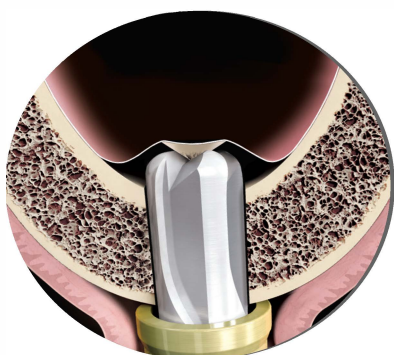
HIOSSEN's CAS-Kit

In the posterior maxilla, bone height is reduced by the presence of the sinus and often inhibits the placement of dental implants, unless a bone augmentation procedure is performed. Hiossen's Crestal Approach Sinus Kit (CAS-Kit) makes this procedure easy and predictable, combining the advantage of high volume bone placement of the lateral window approach, with the simplicity of the crestal approach. Hiossen's CAS-Kit provides a complete set of instruments specifically designed to easily and safely perform crestal approach sinus augmentation without fear of membrane damage.



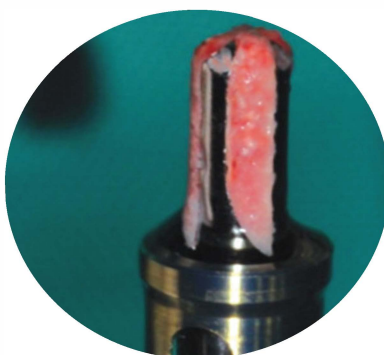


CAS-K



Inverse Conical Drill Tip

The drill tip safely forms a conical bone lid at the sinus floor, which automatically elevates the sinus membrane when the sinus floor is penetrated.



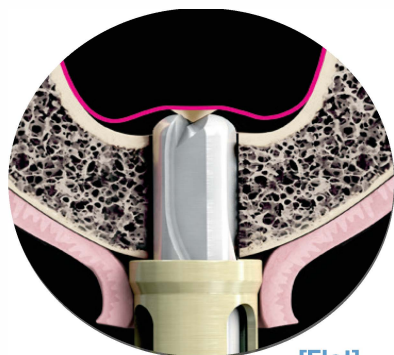
Four-Blade Body

The blades are designed to shift bone particles toward the conical drill tip facilitating safe sinus elevation, while allowing for easy path correction and increased tactile sense.



Drilling Speed

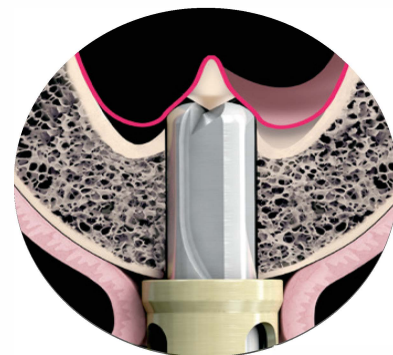
The CAS-drills can be drilled at 400~800 RPM to adapt to different bone densities.



[Flat]



[Inclined]



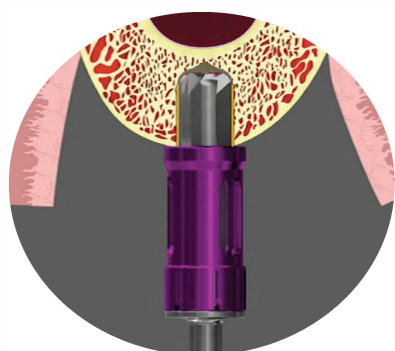
[Septum]

Versatility

The CAS-drill design is versatile to use on sinus floors that are flat, inclined or even over a septum



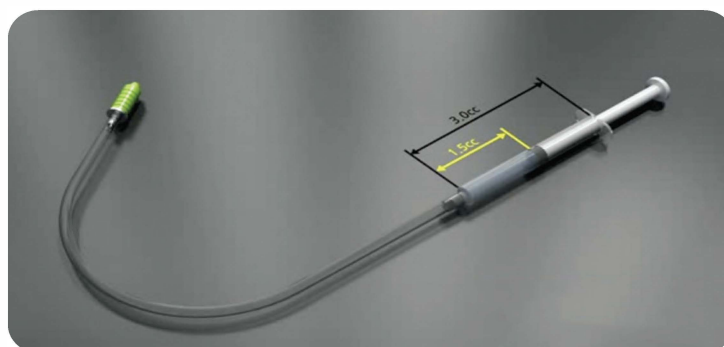
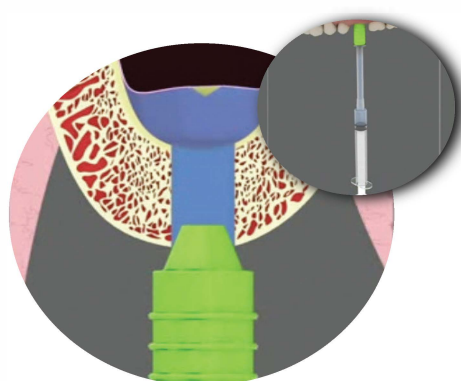
IT FEATURES



**Stoppers come in 11 different lengths, in 1mm increments.*

Stopper System

Osteotomy depth control and patient safety are precisely managed by the CAS-Stopper System. The Stopper system is designed as a dependable and simple safety feature, to prevent over drilling. Delivering the precision you need to perform crestal sinus augmentation with confidence and predictability.



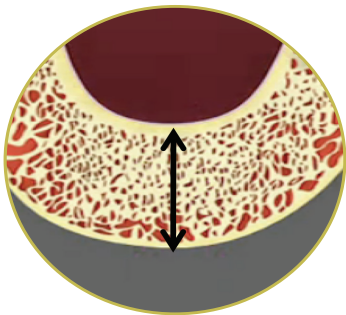
Hydraulic Lift System

Atraumatic and controlled Schneiderian membrane elevation is achieved via the Hydraulic Lift System. Initial elevation performed by the CAS-drill prepares the sinus membrane for the Hydraulic Lift System to apply hydraulic pressure to the cavity, gently separating the membrane from the bony sinus floor. Giving you control and patients significant comfort.

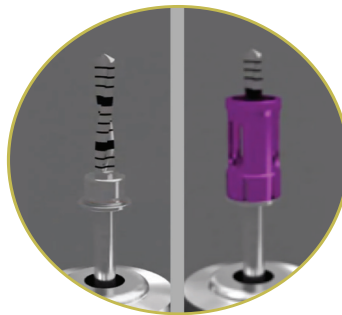


SURGICAL

CAS Kit Surgical Procedure



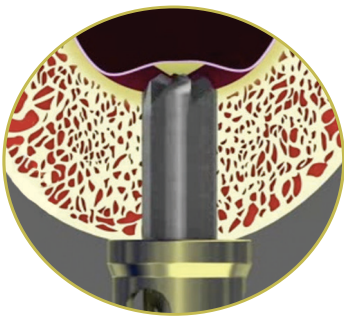
Measure osteotomy height



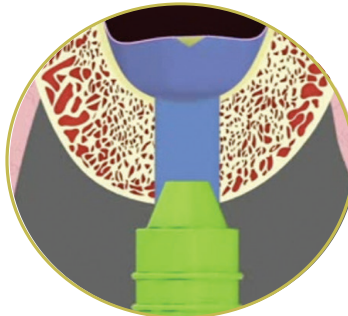
Select corresponding stopper and place over twist drill



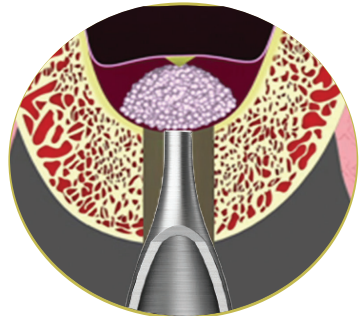
Drill osteotomy to pre-measured depth with confidence



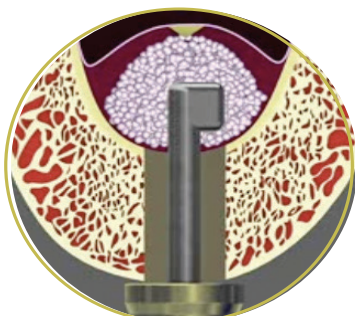
Drill osteotomy to pre-measured depth with CAS-drill



Securely fit Hydraulic Lifter, gently flush in & out saline to elevate the membrane

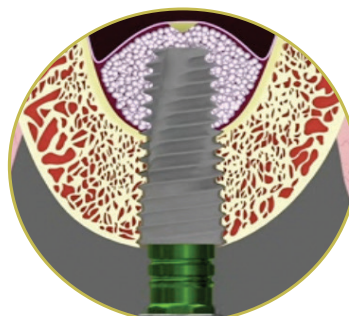


Deliver bone grafting material via the Bone Carrier



OPTIONAL STEP

Compact and evenly spread bone material with the Bone Spreader at 30RPM (use with Stopper to prevent damage to the sinus)



Place implant



PROCEDURE

CAS Kit Surgical Procedure

The CAS-kit has been optimized for Hiossen's Implant System. Please review the drilling sequence matrix below before starting surgery. Confirm the diameter of the fixture, the fixture's height in relation to the sinus cavity and the volume of bone grafting material necessary for a stable implantation.

NOTE:

Straight type fixtures (like the ET II, SS II) require a smaller diameter CAS-drill

http://Shetak.com

Fixture Selection		Twist Drill	CAS-Drill						Hydraulic Lift & Bone Condensing				
		Ø2.2	Ø2.8	Ø3.1	Ø3.3	Ø3.6	Ø3.8	Ø4.1	Depth Gauge	Hydraulic Lifter	Bone Carrier	Bone Condenser	Bone Spreader
F(Ø)	Bone Density												
Ø4.0	Soft	►	►						►	►	►	►	►
Ø4.5		►	►		►				►	►	►	►	►
Ø5.0		►	►				►		►	►	►	►	►
Ø4.0	Normal	►		►					►	►	►	►	►
Ø4.5		►		►		►			►	►	►	►	►
Ø5.0		►		►				►	►	►	►	►	►

CAS-KIT

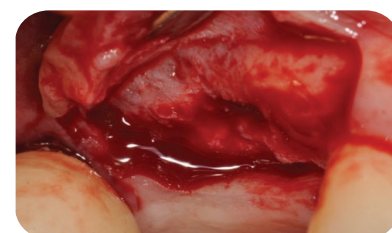


CLINICAL

1

Missing 1st right molar

Oral examination and then flap elevation



2

Drilling the Osteotomy

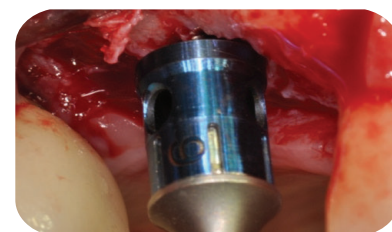
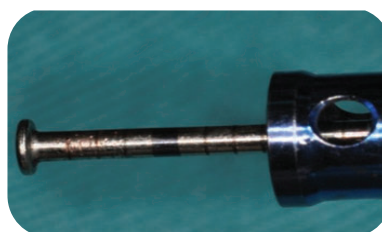
The initial osteotomy was made using the Ø2.2 Twist Drill with a 4mm Stopper. The final drill used was a Ø3.6 CAS Drill with a 8mm Stopper



3

Depth Check

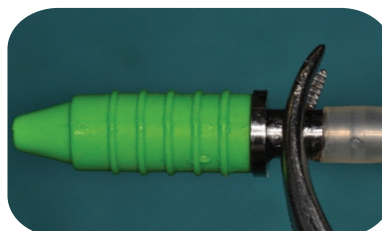
Checked the depth of the osteotomy using the Depth Gauge and a 9mm Stopper, sinus floor penetration was confirmed.



4

Schniederian Membrane Elevation

The Hydraulic Life System was securely inserted into the osteotomy and using gentle hydraulic pressure, the sinus membrane was lifted.



5

New Bone Carrier

Assembled the new bone carrier system to be used with the bone condenser.





CASE STUDY

6

Delivering graft material

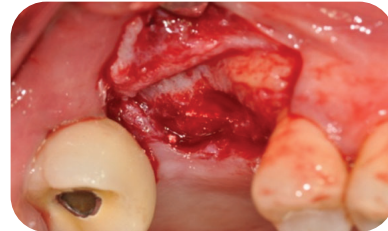
Bone grafting material was loaded on the bone carrier head and then securely inserted into the ostemotoy. Using the bone condenser, the grafting material was delivered into the sinus cavity.



7

Grafting complete

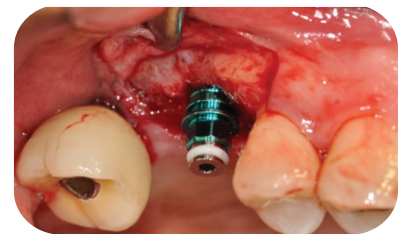
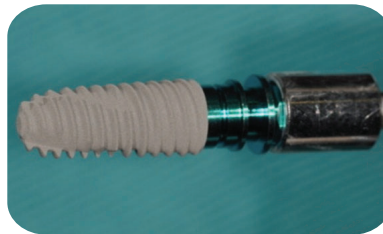
Proper volume of grafting material has been delivered to the sinus cavity.



8

Implant placement

An ETIII Ø4.5 x 10mm fixture was placed successfully with good initial stability.



9

Closure

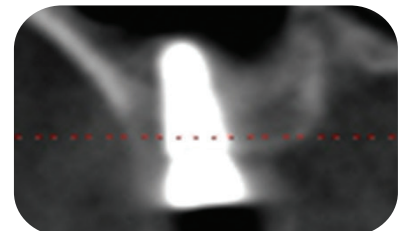
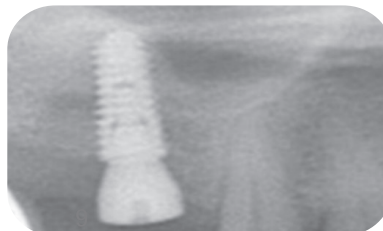
A Ø5.0 healing abutment was connected and the surrounding gingiva was sutured



10

Post-op

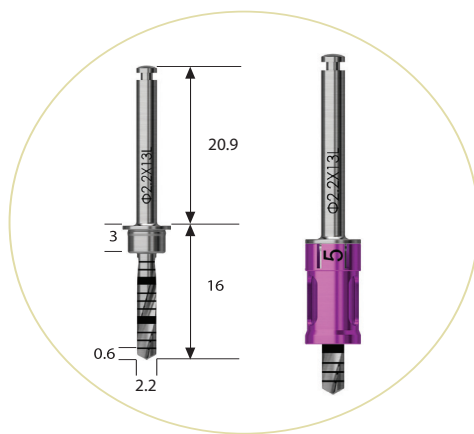
A post-op radiography and CT was taken.



Photos courtesy Dr. Y.S. Cho, Apsun dental clinic



COM

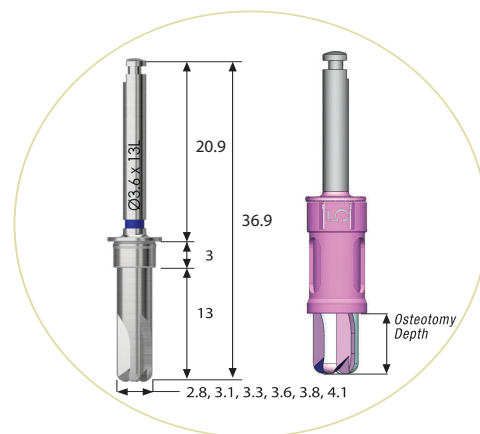


Ø2.2 Twist Drill

Diameter: Ø2.2
Drilling Length: 13mm
Markers: 1mm intervals
• Wide bands every 5mm
• Water infusion

Drill Speeds: 1,000 ~ 1,500 RPM

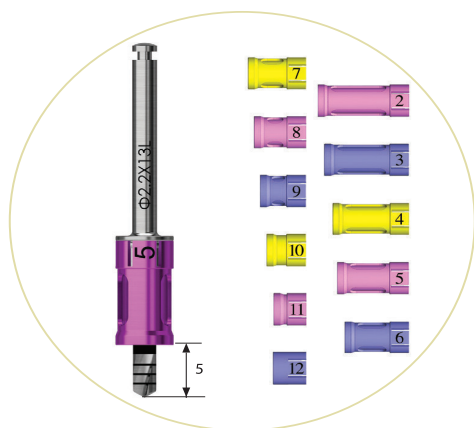
NOTE: Stop drilling when there is approximately 2mm of bone between the drill tip and sinus floor. Calculate drill length ahead of time using CT radiographs.



CAS-Drill

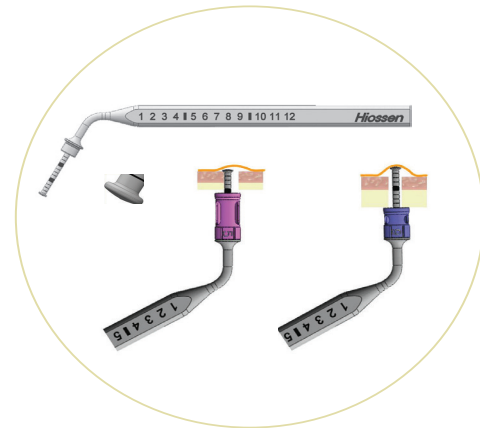
Diameter: Ø2.8, Ø3.1, Ø3.3, Ø3.6, Ø3.8, Ø4.1
Drilling Length: 13mm
Drill Speeds: 400 ~ 800 RPM
• Water infusion
• Limit speed to 600 for beginners

Fixture Length: Up to 13mm can be placed



Stopper System

- Color Coded
- Anodized
- 11 stoppers from 2mm – 12mm
 - Lengths increase in increments of 1mm
- Label corresponds to available drill length (from drill tip to stopper end)
- Compatible with all CAS Kit drills & accessories



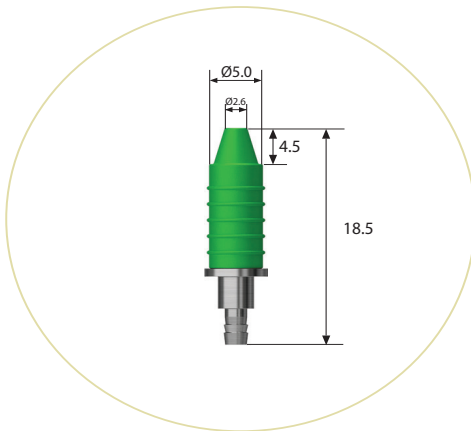
Depth Gauge

- Atraumatic Tip
- 1mm Interval Markers (wide band every 5mm)
 - Numeric lengths listed on handle for quick guide
- Utilized to:
 - Measure Bone Thickness
 - Confirm Membrane Lifting

CAUTION: Do not use the Depth Gauge to lift sinus membrane beyond 1mm.



COMPONENTS



Hydraulic Lifter

- Requires a 1cc or 3cc syringe (not included in kit)
- Use normal saline solution only
- Insert Hydraulic Lifter snugly in to drill hole (for proper lifting action)
- Inject saline solution with steady & slow pressure
- Injection volume to lift height ratio is 0.2cc ~ 0.3cc for every 3mm

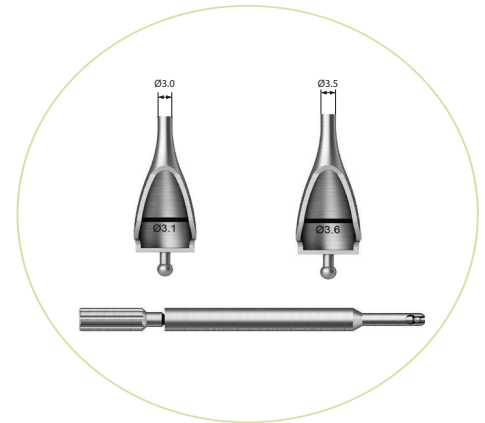
CONTRAINDICATIONS:

- Not recommended for patients with inflammation of the maxillary sinus (Sinusitis)
- Not recommended for patients with severe or complex sinus floor morphologies.



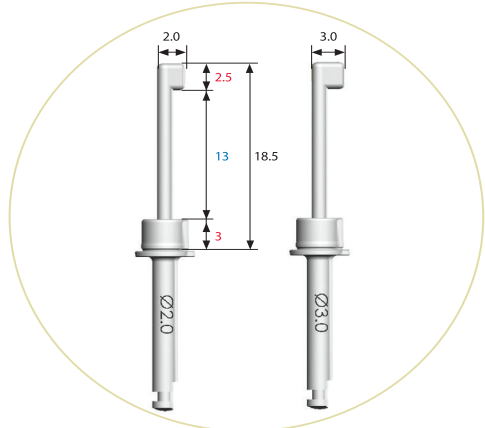
Bone Condenser

- Double Sided
- Diameters: Ø1.1 & Ø1.4
- Compacts bone grafting material in the sinus cavity after delivery
- 5mm interval wide band markers
- Use with Stopper System
- Also used to confirm membrane lifting



Bone Carrier **NEW**

- For to delivering bone grafting material to the sinus cavity
- Connect the head to the carrier and tighten
- Load head with grafting material and insert into osteotomy
- Pack the sinus using the Bone Condenser



Bone Spreader

SOLD SEPARATELY

- Utilized to evenly distribute bone graft material in the sinus cavity
- Recommended speed is 30 RPM
- Use with Stopper System

CAUTION: The Bone Spreader is 2.5 mm longer (from tip to hilt) compared to all other CAS tools. Please take into consideration the additional 2.5mm when inserting into the sinus cavity.



PRO

CAS-Kit Product Codes

DRILLS



Ø2.0/Ø2.7 Guide Drill	SNGD2027TL
Ø2.2 Twist Drill	SNTD2213TL
Ø2.8 CAS Drill	SNDR2813TL
Ø3.1 CAS Drill	SNDR3113TL
Ø3.3 CAS Drill	SNDR3313TL
Ø3.6 CAS Drill	SNDR3613TL
Ø3.8 CAS Drill	SNDR3813TL
Ø4.1 CAS Drill	SNDR4113TL

STOPPERS



2mm Stopper	SNST2
3mm Stopper	SNST3
4mm Stopper	SNST4
5mm Stopper	SNST5
6mm Stopper	SNST6
7mm Stopper	SNST7
8mm Stopper	SNST8
9mm Stopper	SNST9
10mm Stopper	SNST10
11mm Stopper	SNST11
12mm Stopper	SNST12

ACCESSORIES



Bone Carrier	SNBCS35
Ø3'0 Bone Carrier Head	SNBCH30
Ø3'5 Bone Carrier Head	SNBCH35
Bone Condenser	SNBC1114
Ø2.0 Bone Spreader *	SNBS2015T
Ø3.0 Bone Spreader *	SNBS3015T
Depth Gauge	SNDG
Hydraulic Lifter	SNMLS
Hydraulic Lifter Tubing	SNMT

**Optional components, not included in the kit*



DUCT CODES

Bone Material Product Codes

Bongros® Synthetic Bone Material



Classification	Particle Size	Volume	Product Code
M Size	0.6 - 1.0mm	0.25g	HAGM025GUSA
		0.5g	HAGM05GUSA
L Size	1.0-3.0mm	1g	HAGL10GUSA

SureOss™ Freeze Dried Allograft Cortical Bone



Product	Particle Size	Volume	Product Code
SureOss Powder	200-850	0.25cc	SOP25UH
		0.5cc	SOP50UH
		1cc	SOP100UH
SureOss Chip	850-1500	0.25cc	SOC25UH
		0.5cc	SOC50UH
		1cc	SOC100UH

OsteOss™ Freeze Dried Allograft Cortical & Cancellous Bone



Product	Particle Size	Volume	Product Code
OsteoOss Powder	200-850	0.25cc	CCP25UH
		0.5cc	CCP50UH
		1cc	CCP100UH
OsteoOss Chip	850-1500	0.25cc	CCC25UH
		0.5cc	CCC50UH
		1cc	CCC100UH

CAS-KIT



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Courses are applicable to ICOI advanced credentials

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