NEOBIOTECH VAROGUIDE SYSTEM

PREGUIDE

VAROGUIDE SYSTEM

VAROGUIDE RW KIT

VAROGUIDE MINI KIT

VAROGUIDE SINUS KIT

A Biotech
Satisfaction to Dentists

INTRODUCTION

Serving the best products and services to implantologists under the motto of No.1 implant system in the world.

Neobiotech is a leading manufacturer and supplier of comprehensive products and solutions for implant, restorative, and digital dentistry. Ever since our foundation in year 2000, Neobiotech have been relentlessly striving for new and better ways in every area of implant dentistry with a central belief that our solutions must remain Simple, Safe, and Speedy (the 3S Spirit) for both the dentists and patients. Today, Neobiotech products, services, and educational offerings are available in around 70 countries worldwide through subsidiaries and distributors.

Neobiotech Co. believes that implant design should be developed based on implant surgical protocols prior to the application of other technologies. In 2007, Neobiotech introduced a new implant to the world, called CMI (Sinus Quick) Implant: an implant designed to easily achieve maximum initial fixation in maxillary or mandibular bone during implant placement. Neobiotech changed the implant design from a straight body type (earlier implant design) to tapered body type by applying the concept of "CMI fixation" and "Anytime loading". This innovation led Neobiotech to differentiate its products from other implant companies' products and services.

In the same year, Neobiotech launched the new GBR system that enabled easier, safer, and faster GBR process, which Neobiotech invented through many years of Dr. Heo's (CEO of Neobiotech) surgical experiences. In 2008, Neobiotech released the Sinus Crestal Approach (SCA) surgical kit and brought out innovation to sinus implant surgical operation. In the same year, Neobiotech also launched the Sinus Lateral Approach (SLA) Kit, which received praise and love worldwide.

In the middle of 2009, for the very first time, Neobiotech launched the FR Kit (Fixture Remover Kit), which let easy access on removing fixture abutments to dentists. In 2010, Neobiotech have launched the SR Kit (Screw Remover Kit), and from this, Neobiotech have made advanced surgical solution series: SCA Kit, SLA Kit, FR Kit, SR Kit. Furthermore, Neobiotech launched the new GBR solution series in 2011: new GBR Kit, CTi-mem (Customized Titanium Membrane), ACM (Autochip Maker).

Neobiotech has not only focused on creating innovative products and surgical protocols, but also followed the 3S (Simple, Safe, Speedy) concept while developing products in order to make sure the products were much simpler, safer, and faster for every implantologist to be confident and feel convenient during implant surgery.

To satisfy all of our customers' needs, Neobiotech will always be more than happy to come closer and listen to our valuable customers' voices. Neobiotech will strive to be the world's best implant company by continuously developing new implant system that all implantologists will trust and enjoy.



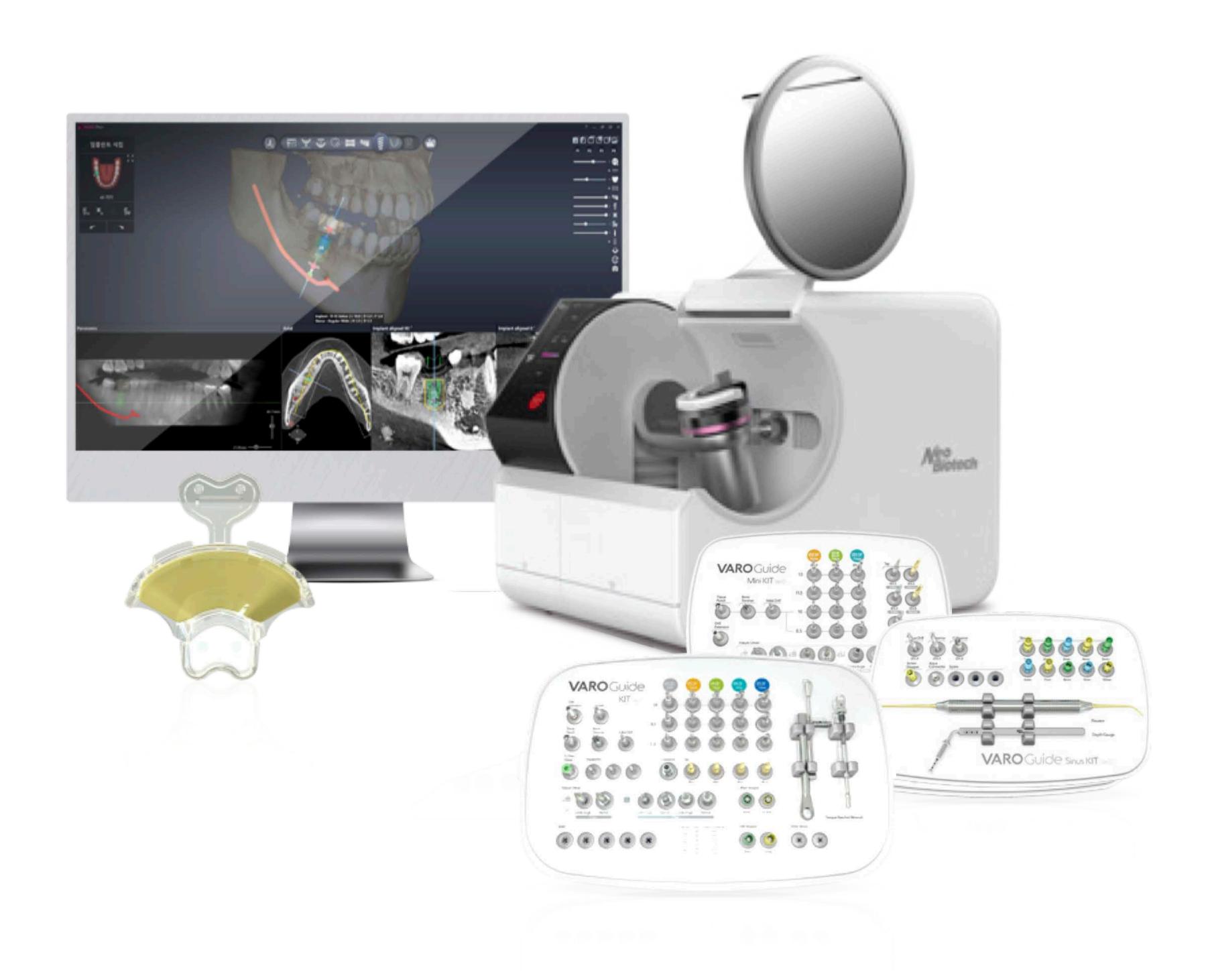
Chairman of Neobiotech Young-ku Heo

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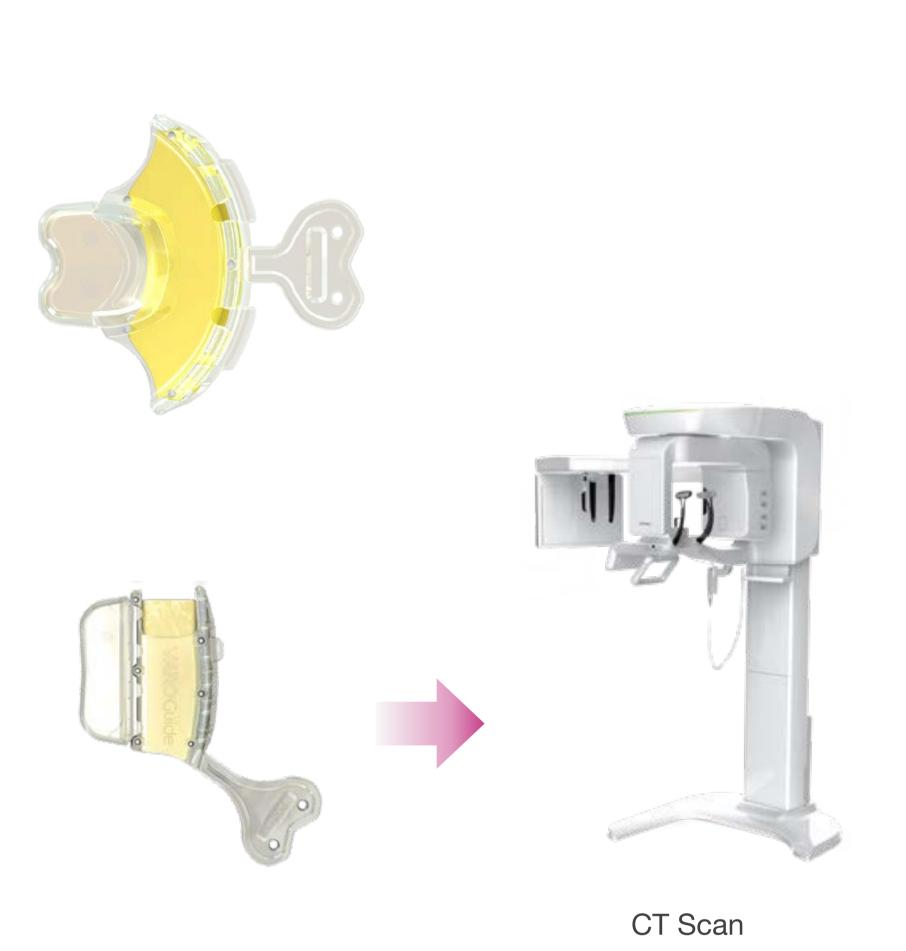
VAROGuide Sinus Kit

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VAROGUIDE WORKFLOW

VAROGuide System Chart





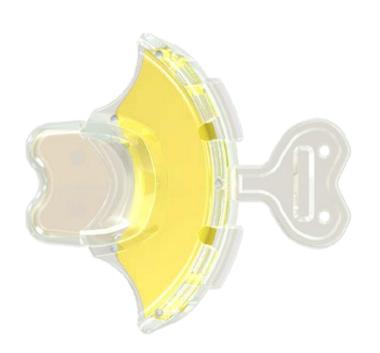




VARO Mill Guide Milling

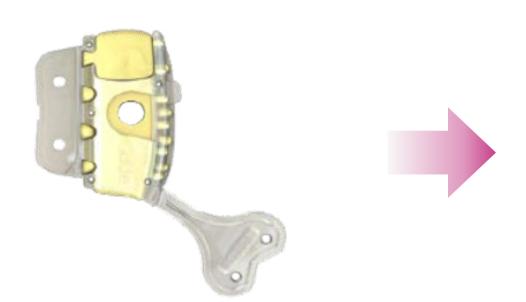


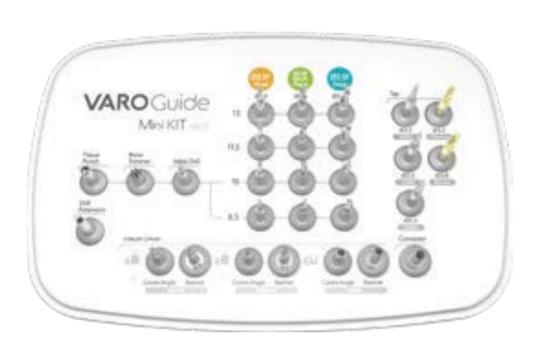
VAROGUIDE WORKFLOW





VAROGuide Kit





VAROGuide Mini Kit





VAROGuide Sinus Kit

PREGUIDE

Trial Tray

Trial Tray is practiced tray, which tray itself is identically manufactured as PreGuide.

As E.O gas or plasma sterilization is possible, it is sterilized and packaged individually. (Up to 10 times in autoclave sterilization)

PGA Trial Tray



Type	PGA
Product Code	PGAT

PGS Trial Tray



Type	PC	GS
Product Code	PGS13T	PGS24T

PGM Trial Tray



Type	PGMT	
Product Code	PGM13T	PGM24T

PGF Trial Tray



Туре	PGFT		
Product Code	PGFS1T	PGFM2T	PGFL3T

PREGUIDE

PreGuide Tray

This is a digital tray that takes an intraoral impression, aligns with the CT, and precisely connects to the specified position of the milling machine.

No.13 is applied for right maxillary posterior site/left mandibular posterior site.

No.24 is applied for left maxillary posterior site/right mandibular posterior site.

PGF is divided into PGF-L(large), PGF-M(medium), and PGF-S(small) according to the size of the arch.

PGA



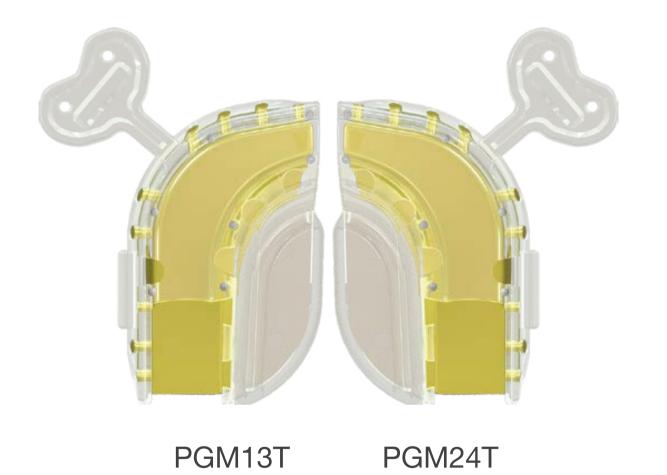
Product Code	PGA

PGS



Туре	PC	GS
Product Code	PGS13	PGS24

PGM



Type	PGMT	
Product Code	PGM13	PGM24

PGF



Type	PGF		
Product Code	PGFS1	PGFM2	PGFL3

VAROGUIDE SYSTEM

VARO Plan

VARO Plan is an implant planning software dedicated for VAROGuide. Without intra-oral or model scan data, only a CT Data(DICOM) which patient taken CT with PreGuide. (Not compatible with other S/W)



Product Name

VARO Plan

VARO Plan Dongle

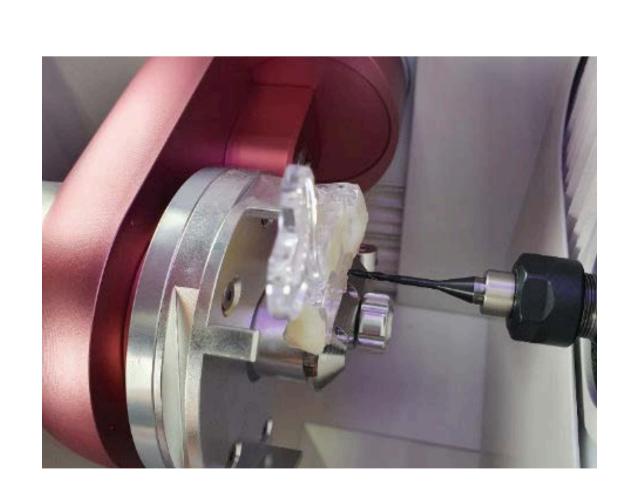


VARO Mill

VARO Mill is a milling machine, dedicated for VAROGuide.

Milling a guide hole(s) and exterior stopper designated by VARO Plan on CT scanned PreGuide.

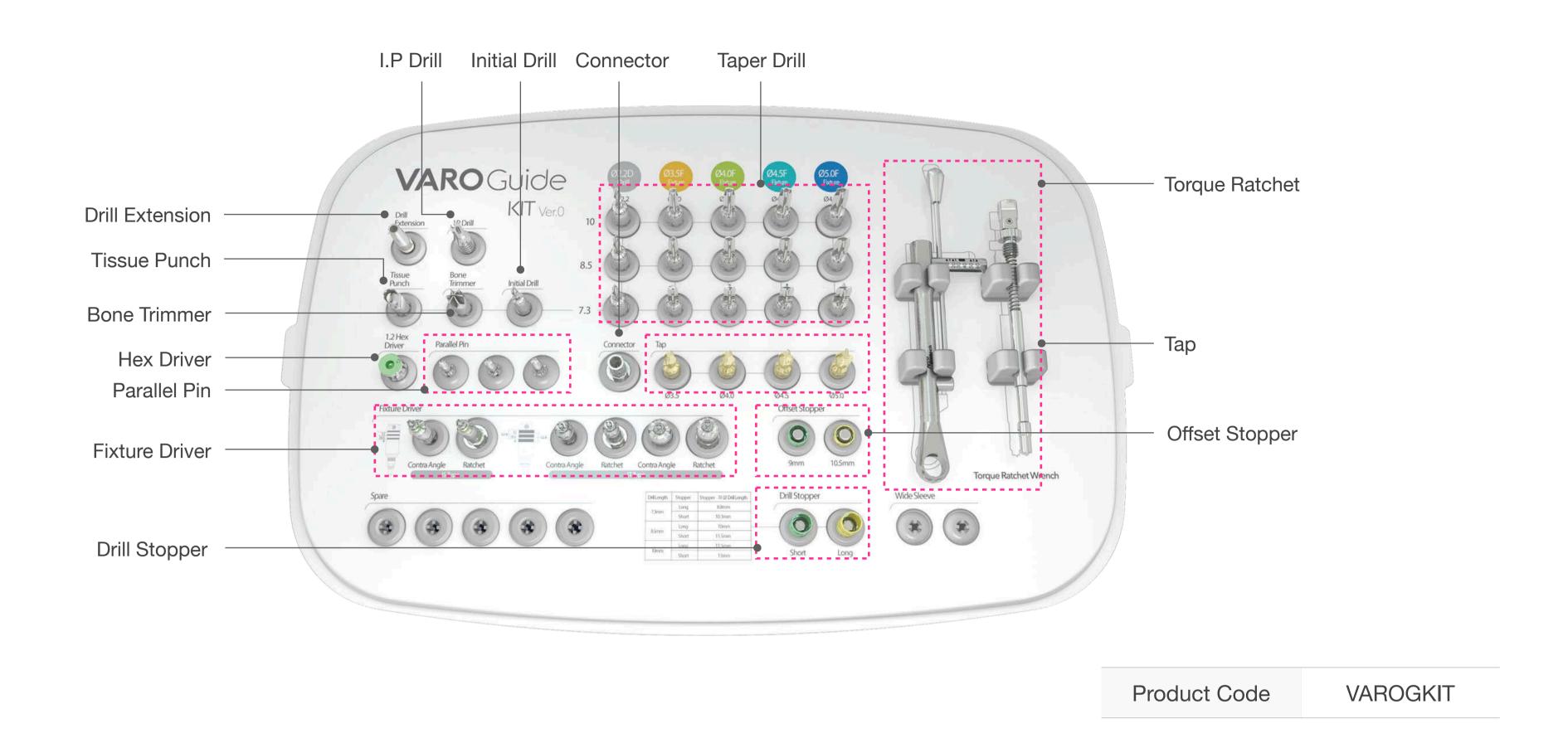
(Not compatible with other equipment)





Product Name	VARO Mill & Burr
	VGApex Mill CAM SW
	VARO Mill Dongle

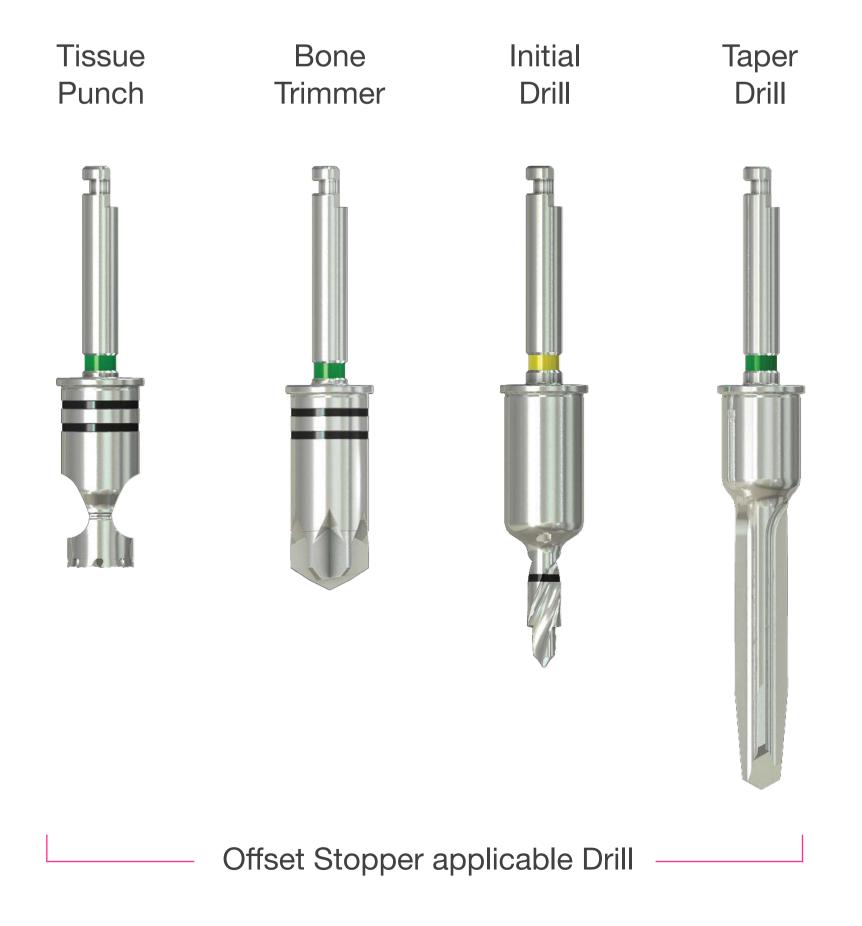




Offset Stopper

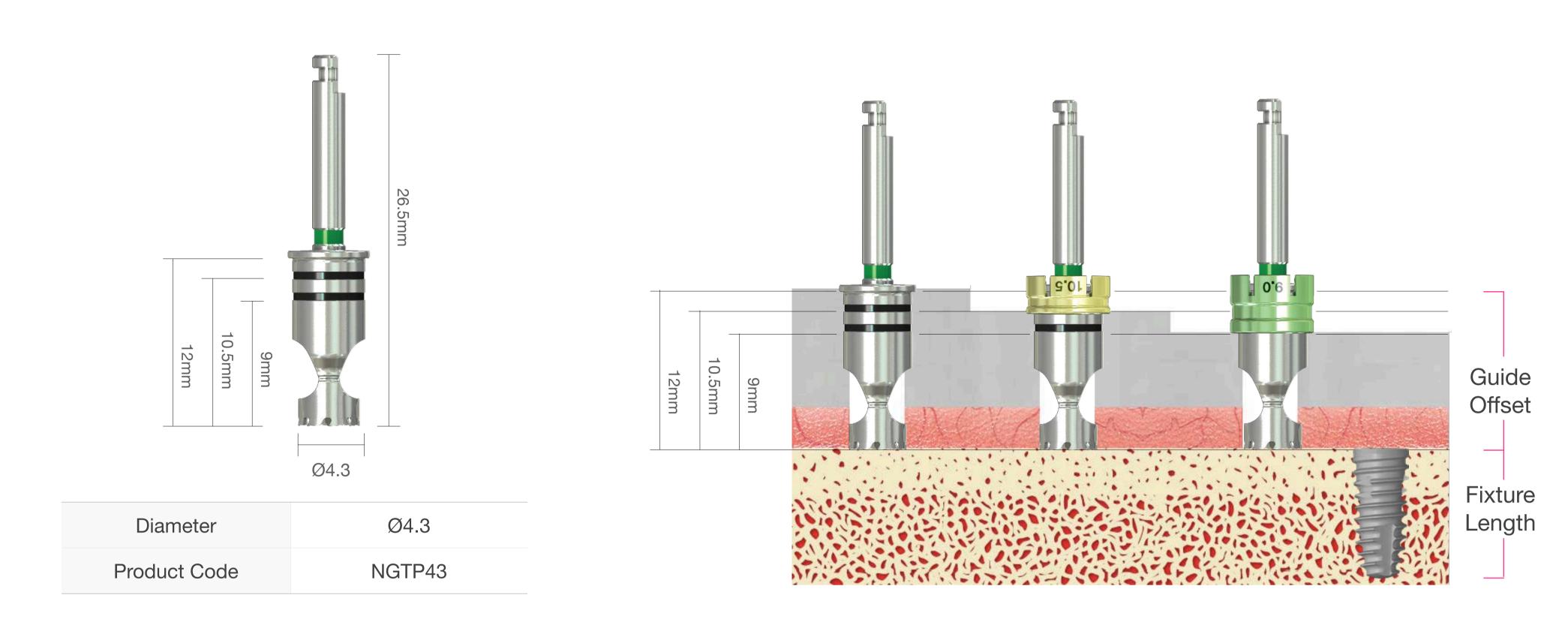
Connect to drill when applying offset.





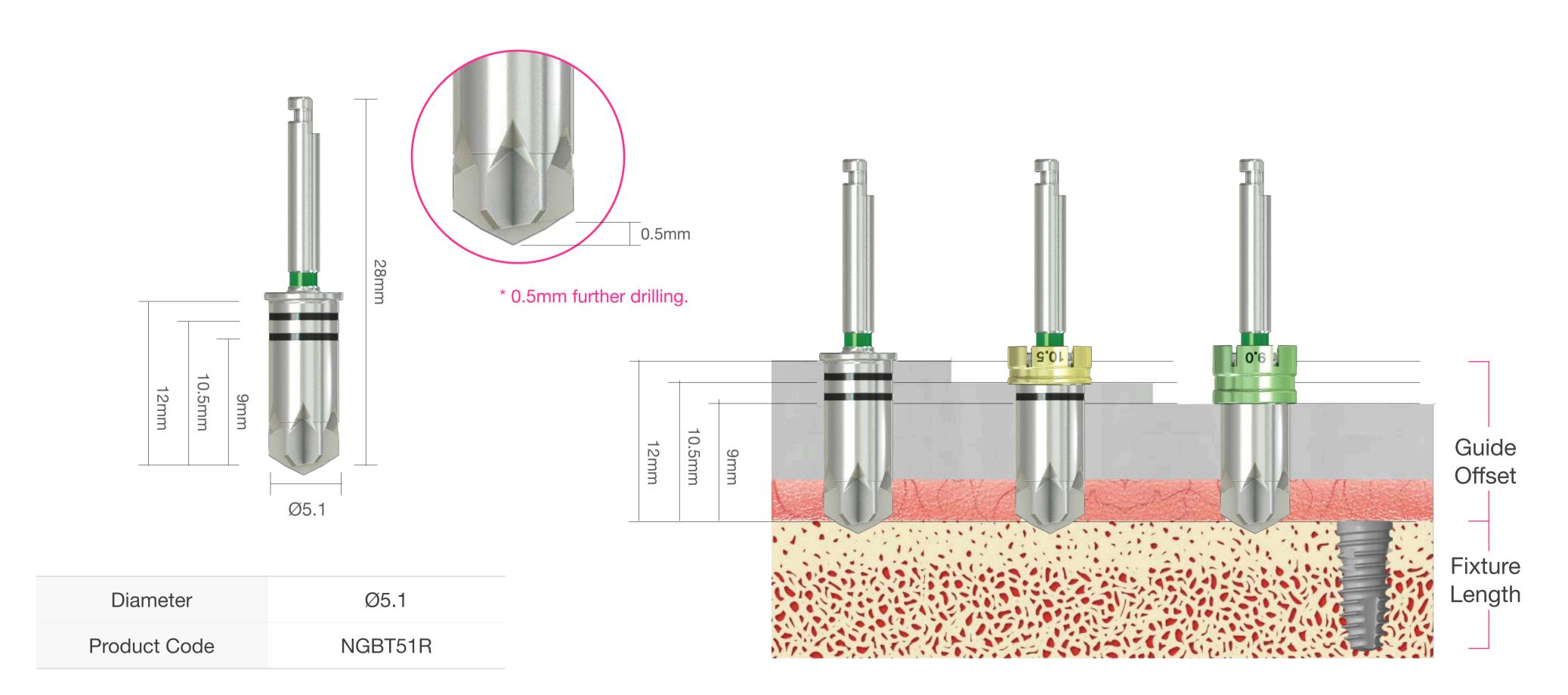
Tissue Punch

- 1) Used to remove the soft tissue.
- 2) When applying offset, connect offset stopper to drill.
- ☼ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm



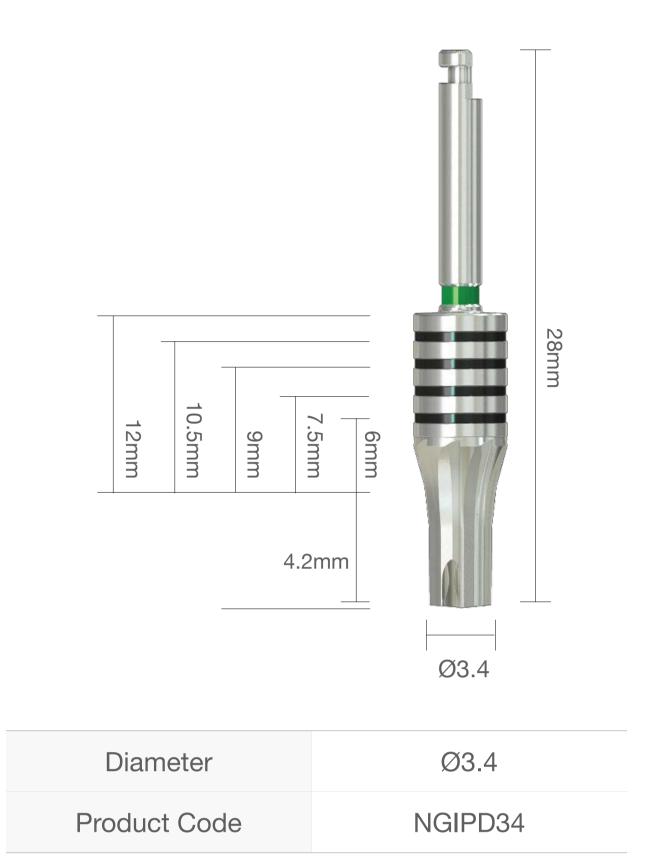
Bone Trimmer

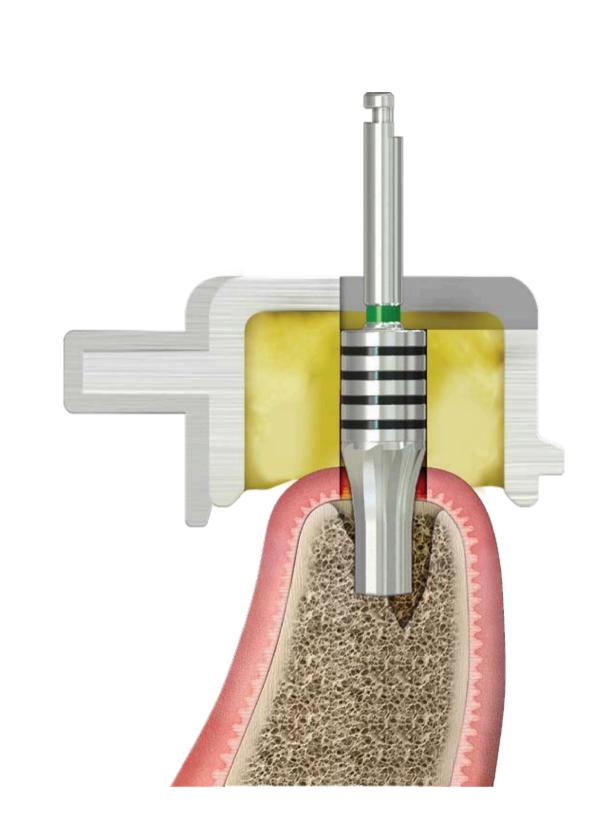
- 1) Used to flat the bone level by removing residual alveolar bone.
- 2) When applying Offset, connect offset stopper to drill.
- ☼ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm



Immediate Placement Drill

- 1) Prevent deflection of drilling path by enabling site preparation, usually effective for implant placement on alveolar socket and it is effective for residual alveolar bone removal.
- 2) Insert the IP Drill into the Sleeve Hole and drill tip is caught in the residual bone. Check the scale of the area that borders the upper part of the guide hole, and then to drill the desired depth.
- ☼ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm





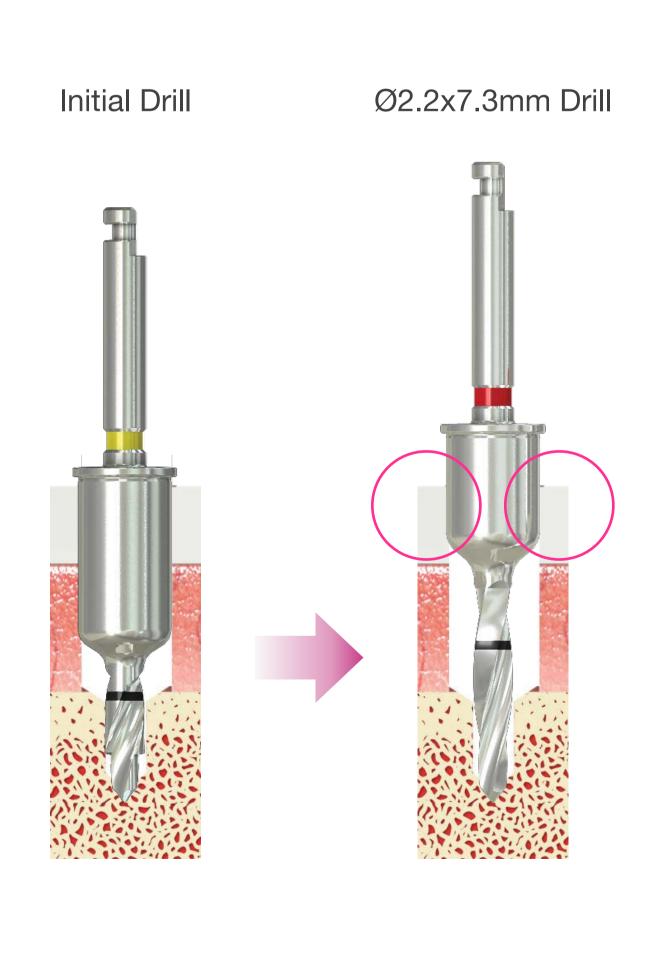
Initial Drill

Long drill cylinder enhances drilling accuracy by controlling wobbling issues.

☼ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm



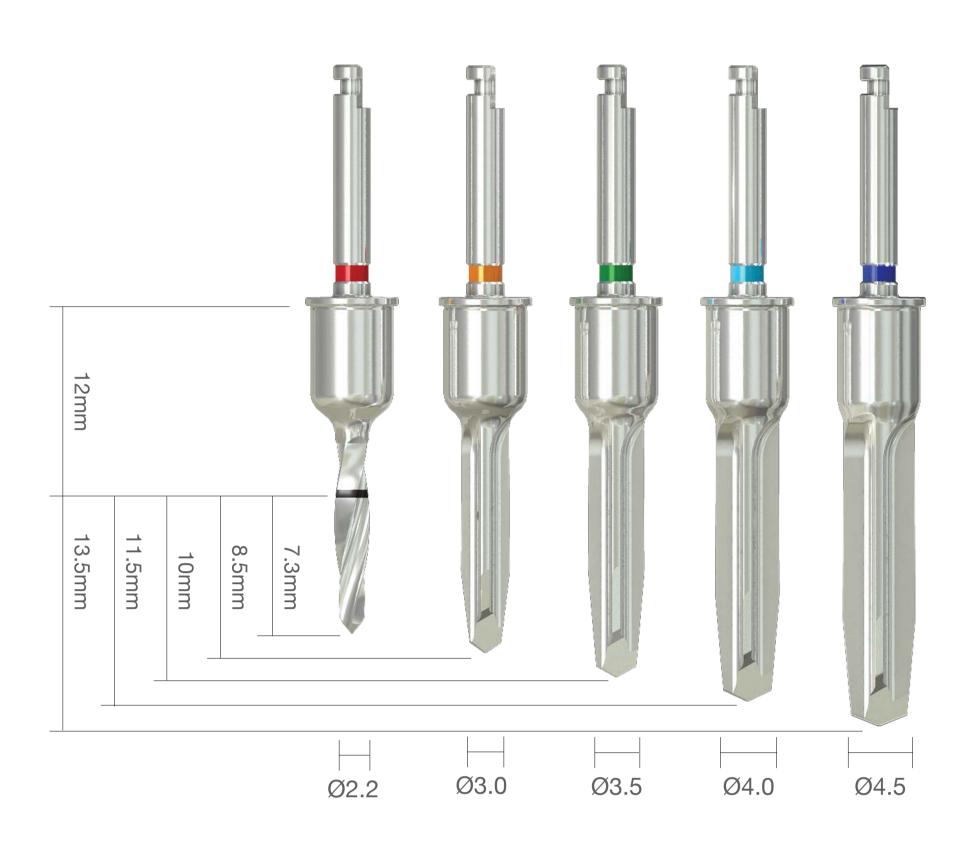
Diameter	Ø2.2
Product Code	NGTWD22S

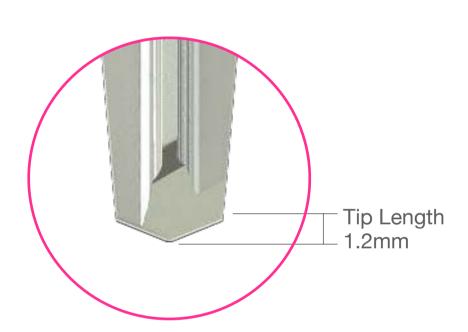


Taper Drill (Final Drill)

Used to expand the hole depends on the drill size in order to fit the fixture size.

* Drilling Speed & Torque 800~1,200rpm / 30~45Ncm (option : 50~100rpm / 30~45Ncm)





* Taper drill's tip is 1.2mm longer than Fixture Length.

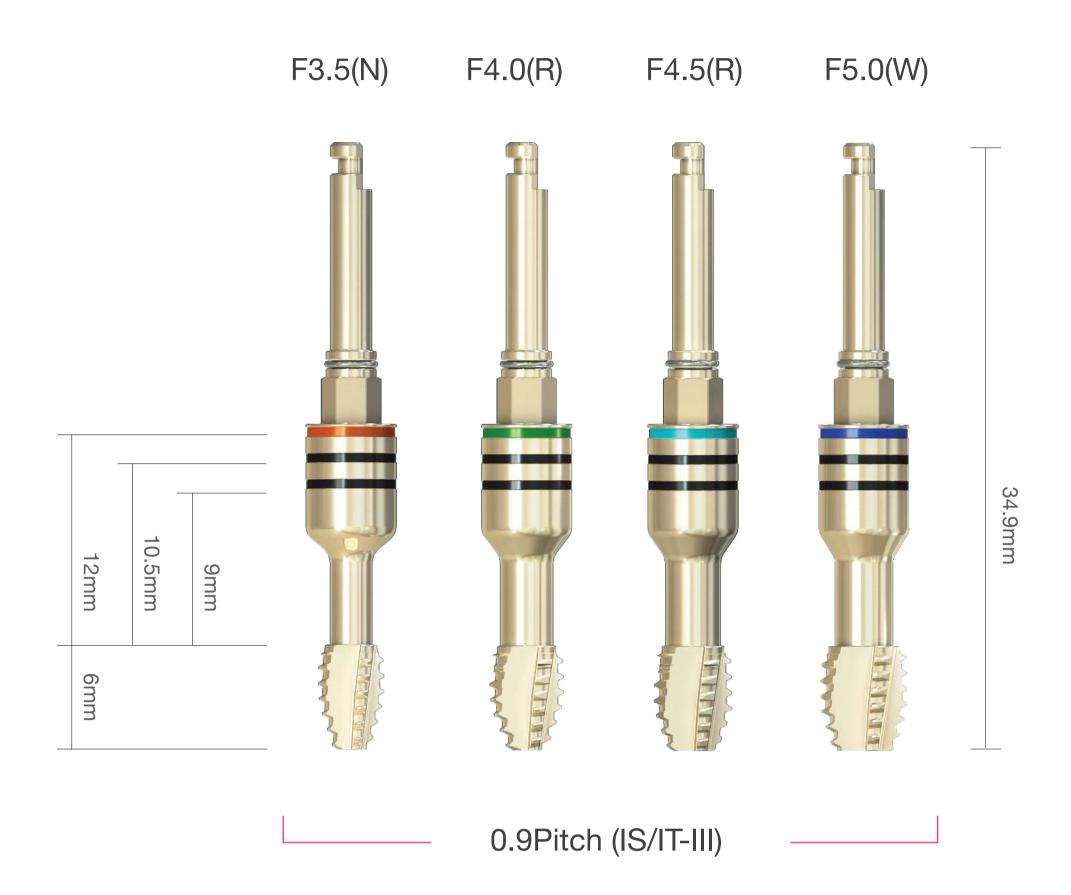
Drill Ø	Specification	Product Code
	Ø2.2x7.3mm	NGTWD2207V
	Ø2.2x8.5mm	NGTWD2208V
Ø2.2	Ø2.2x10mm	NGTWD2210V
	Ø2.2x11.5mm	NGTWD2211V*
	Ø2.2x13mm	NGTWD2213V*
	Ø3.0x7.3mm	NGTD3007V
	Ø3.0x8.5mm	NGTD3008V
Ø3.0	Ø3.0x10mm	NGTD3010V
	Ø3.0x11.5mm	NGTD3011V*
	Ø3.0x13mm	NGTD3013V*
	Ø3.5x7.3mm	NGTD3507V
	Ø3.5x8.5mm	NGTD3508V
Ø3.5	Ø3.5x10mm	NGTD3510V
	Ø3.5x11.5mm	NGTD3511V*
	Ø3.5x13mm	NGTD3513V*
	Ø4.0x7.3mm	NGTD4007V
	Ø4.0x8.5mm	NGTD4008V
Ø4.0	Ø4.0x10mm	NGTD4010V
	Ø4.0x11.5mm	NGTD4011V*
	Ø4.0x13mm	NGTD4013V*
	Ø4.5x7.3mm	NGTD4507V
	Ø4.5x8.5mm	NGTD4508V
Ø4.5	Ø4.5x10mm	NGTD4510V
	Ø4.5x11.5mm	NGTD4511V*
	Ø4.5x13mm	NGTD4513V*

* OPTIONAL

Tap

When placing the fixture, cortical tapping for Anytime Loading. Prevent over torque depends on Fixture Size.

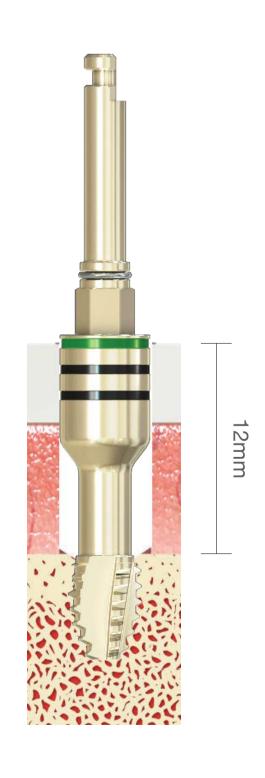
☼ Drilling Speed & Torque 30~50rpm / 30~45Ncm



Drill Ø	Specification	Product Code
	Ø3.5	NGCT35S09*
0.9Pitch (IS/IT-III)	Ø4.0	NGCT40S09*
	Ø4.5	NGCT45S09*
	Ø5.0	NGCT50S09*
0.8Pitch (IS-II)	Ø3.5	NGCT35S08*
	Ø4.0	NGCT40S08*
	Ø4.5	NGCT45S08*
	Ø5.0	NGCT50S08*

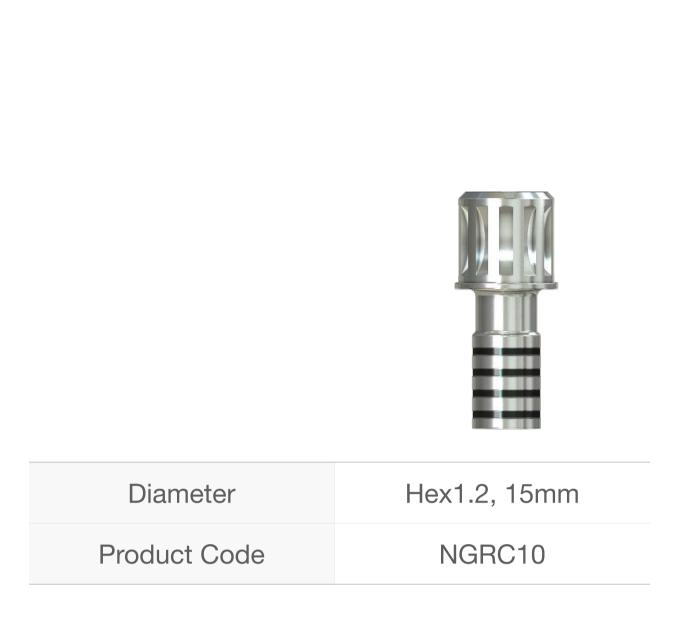
* OPTIONAL



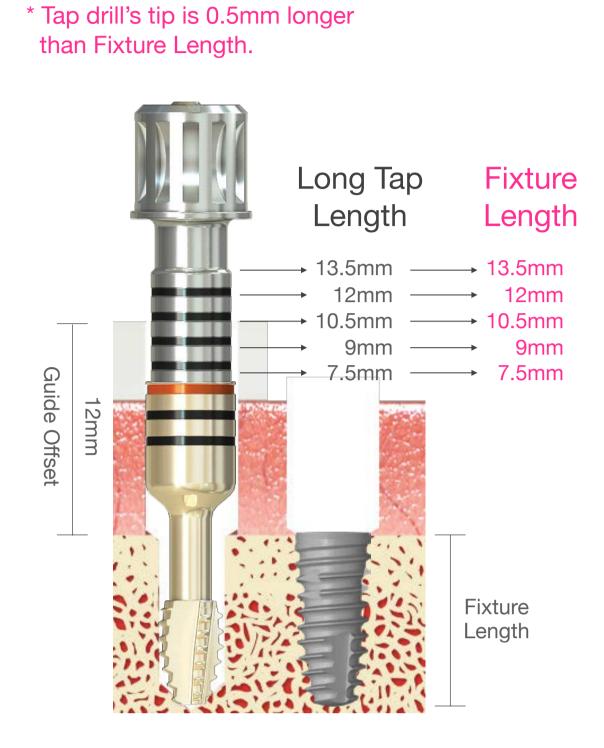


Connector

Used to transmit torque when connected to the tap and ratchet. When inserted to the tap, it can be used as a long tap by using a marker.



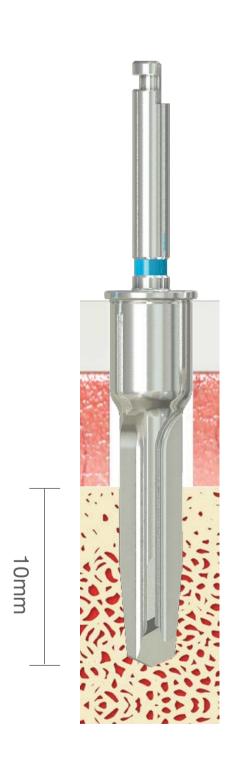




Drill Stopper

- 1) Remove VAROGuide(Surgical Guide) and use it to control the desired drilling depth.
- 2) When placing 11.5mm and 13mm fixtures, use the Drill Stopper by connecting it to a 10mm drill.





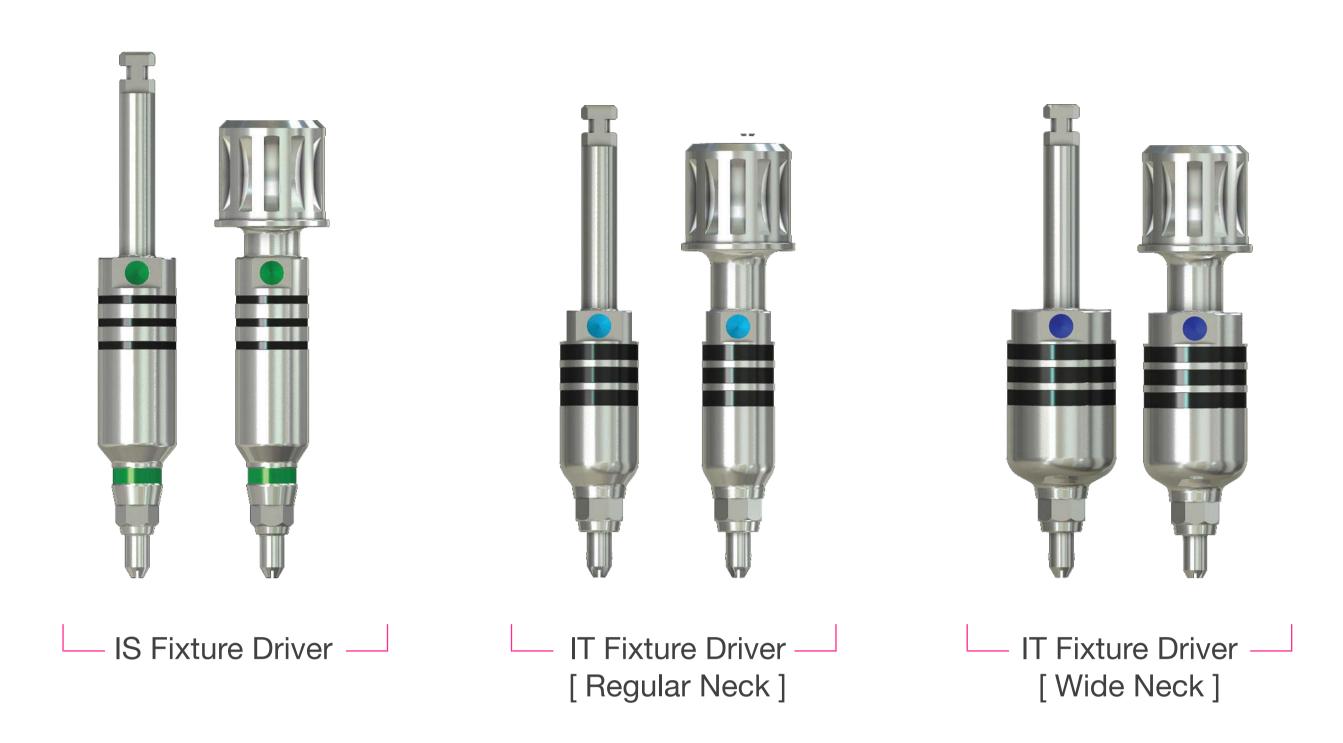




Tap

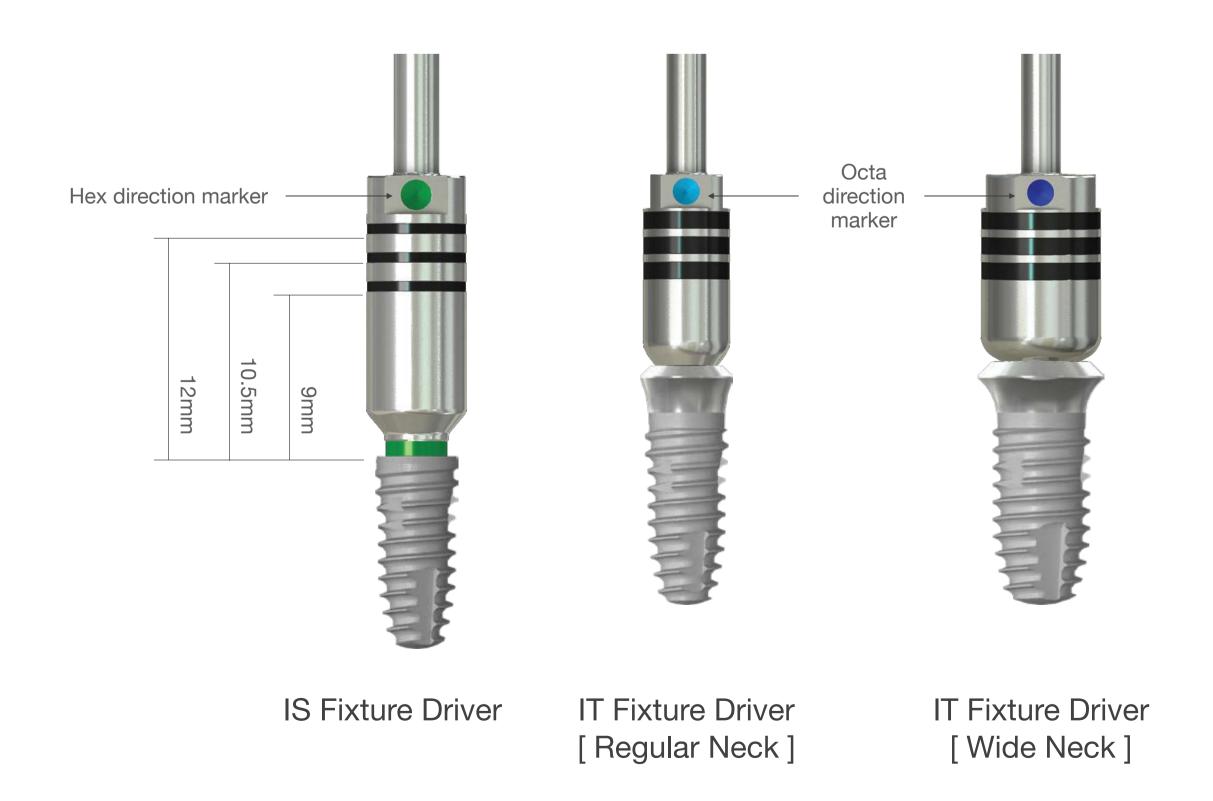
When placing the fixture, cortical tapping for Anytime Loading. Prevent over torque depends on Fixture Size.

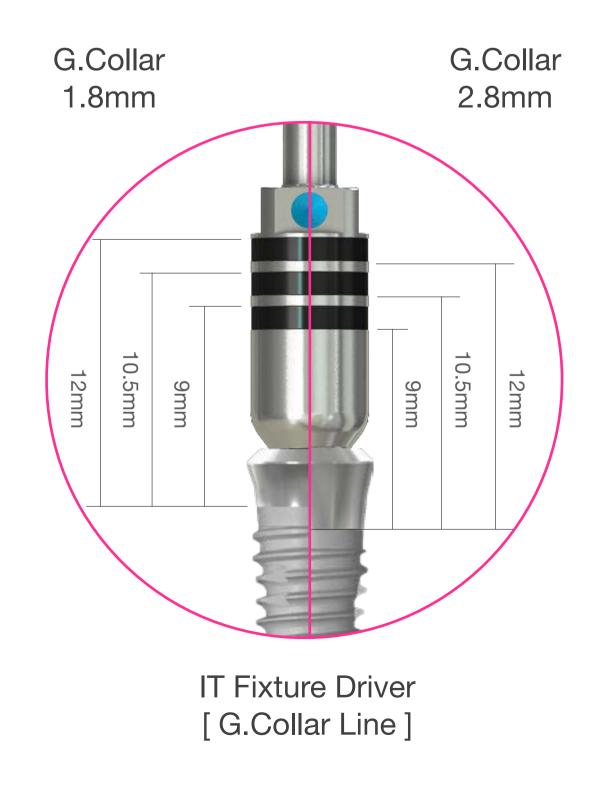
☼ Drilling Speed & Torque 30~50rpm / 30~45Ncm



Type	Length	Specification	Product Code
IS Fixture Driver	Ratchet		NGISFDRRW*
13 Fixture Driver	Contra Angle	_	NGISFDCARW*
	Ratchet		NGITFDRRN*
IT Fixture Driver	Contra Angle	Regular Neck	NGITFDCARN*
	Ratchet	Wide Neck	NGITFDRWN*
	Contra Angle	WIGE NECK	NGITFDCAWN*

* OPTIONAL





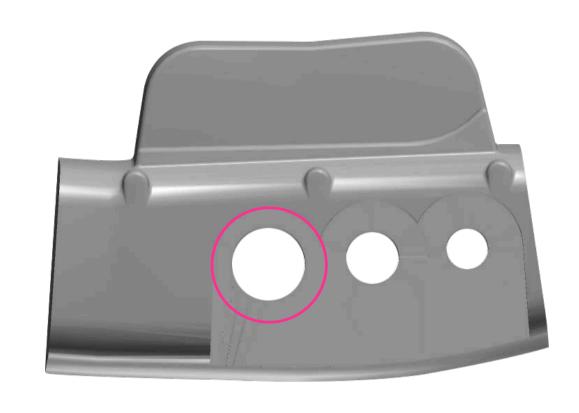
Wide Stopper

Type

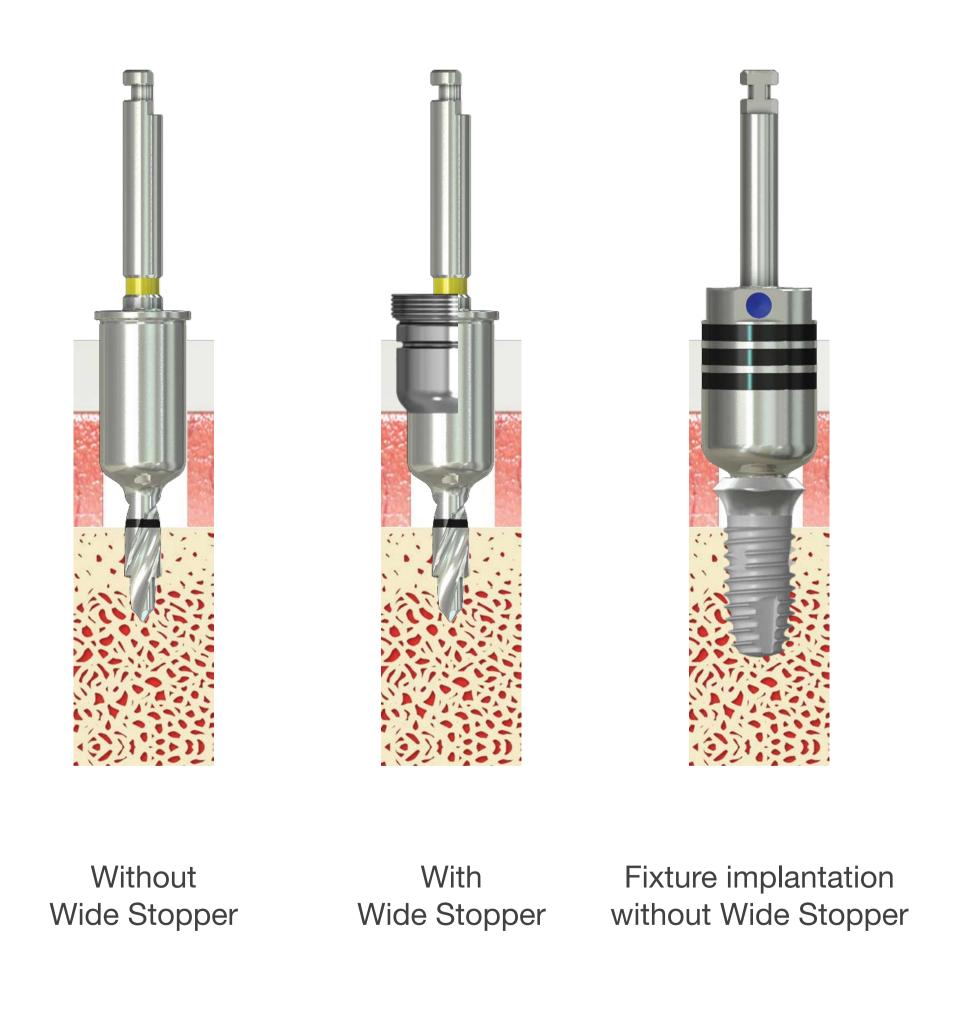
Product Code

- 1) IT Wide Implant cases, attach to sleeve hole which applied Neobiotech Wide Sleeve(7.26mm) and remove Wide Conversion Sleeve during Fixture Implantation(using IT Wide Driver).
- 2) Select Short/Long Wide Conversion Sleeve depending on remaining thickness of the Guide.





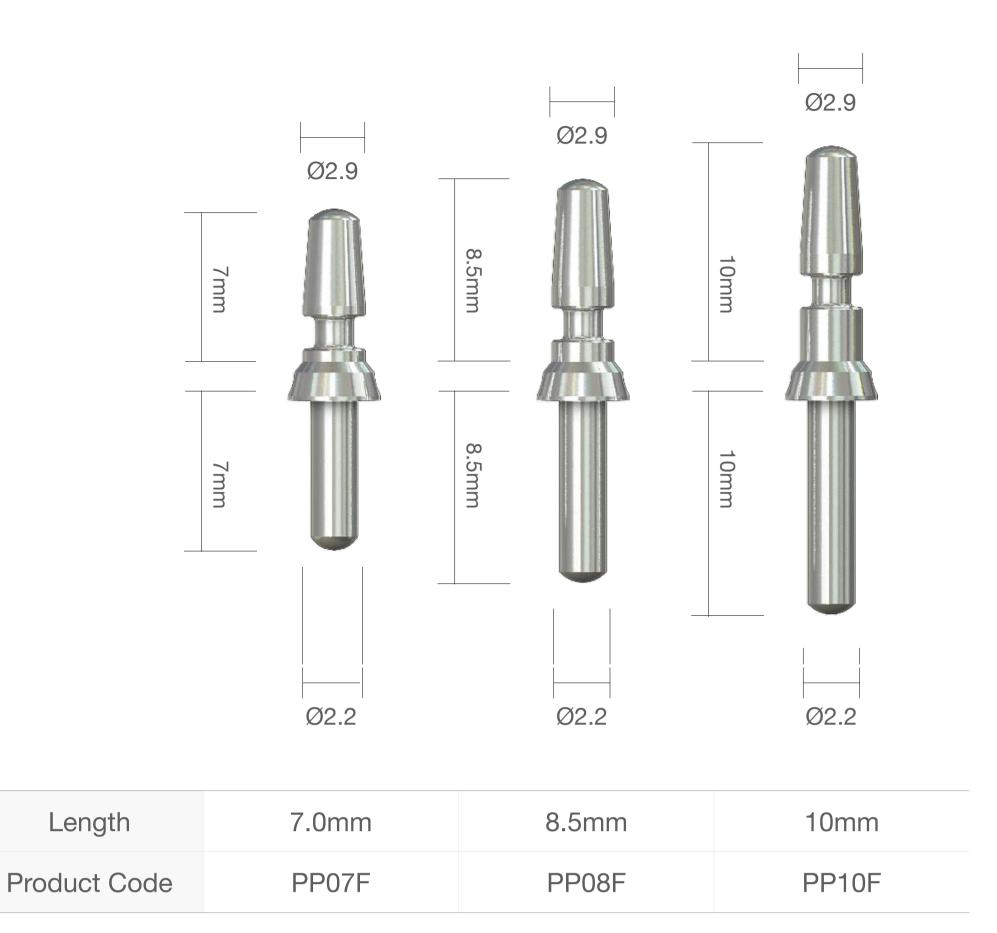
Neobiotech Wide sleeve Applied





Parallel Pin

After Ø2.2 drilling, remove VAROGuide(Surgical Guide) and to check the direction and position of bone preparation.



Hex Driver

Used to tighten or loosen the abutment screw.



Diameter	Hex1.2, 15mm
Product Code	HD1215S

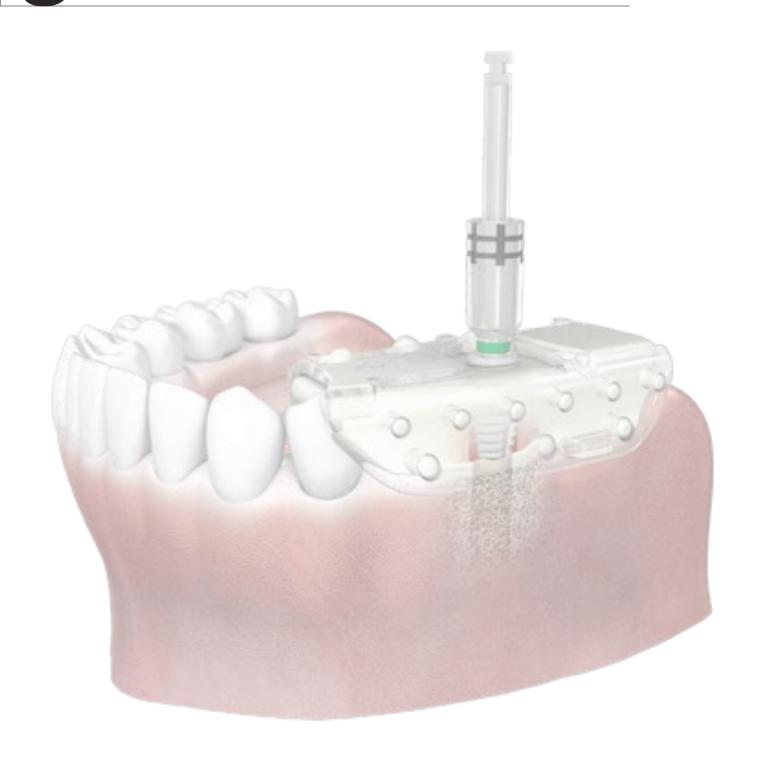
Drill Extension

Used to extend the length during drilling.





DE01

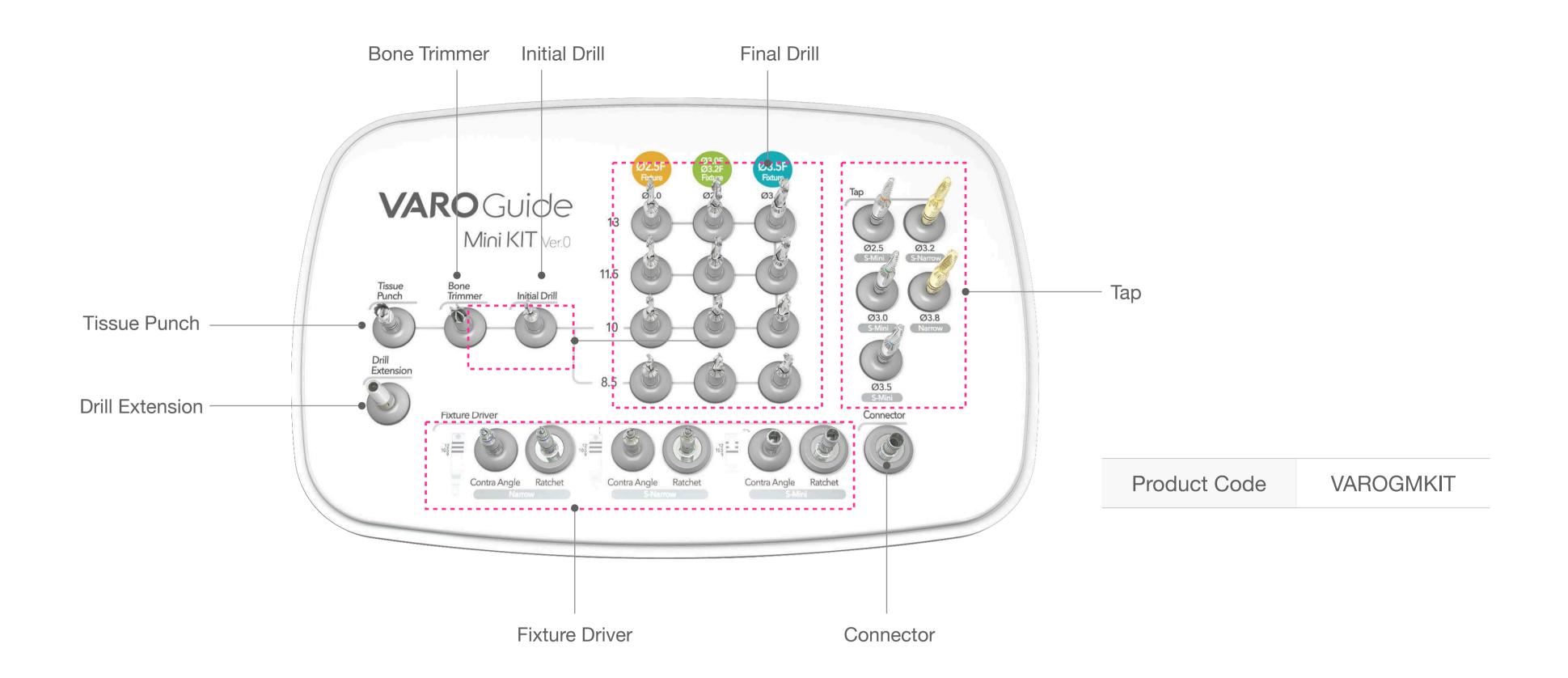


Torque Ratchet

Used to apply torque by mounting on the driver and connector.



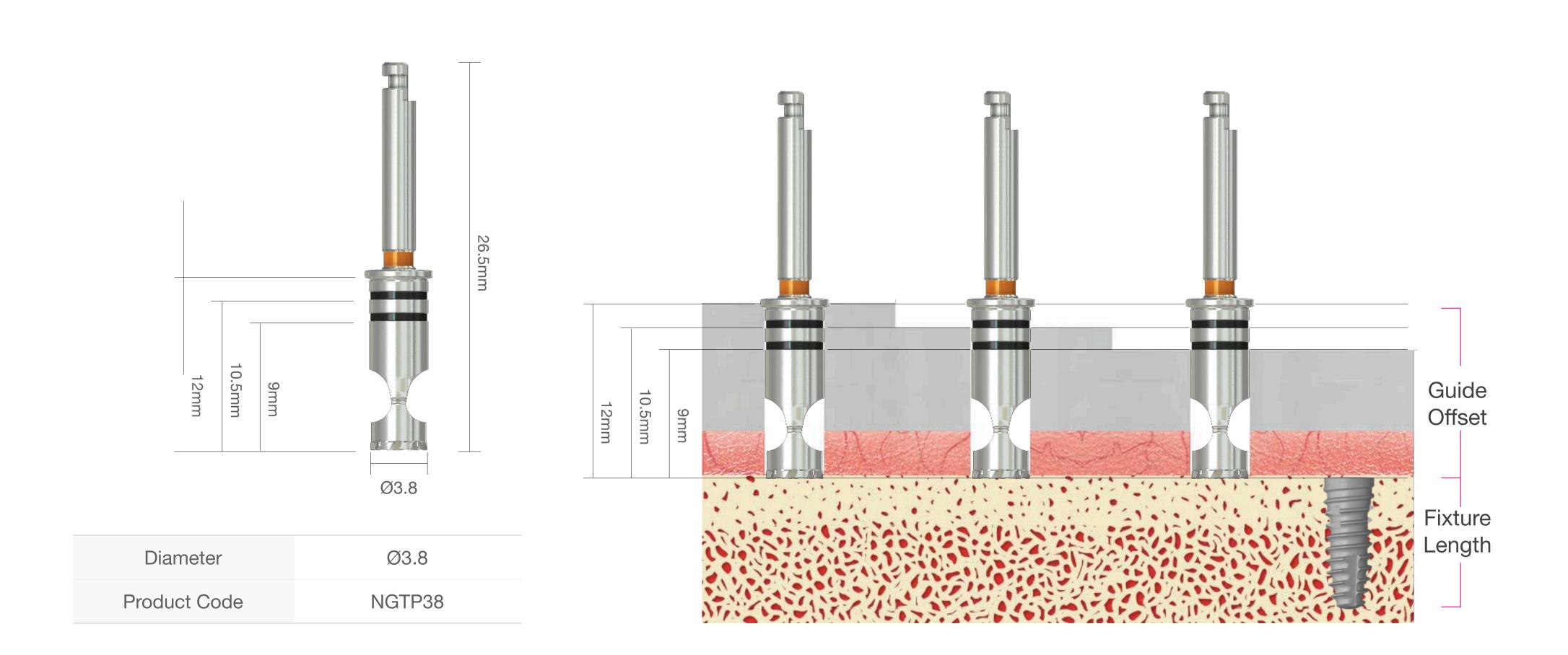
Type	10~60Ncm
Product Code	TW60



Tissue Punch

Used to remove the soft tissue.

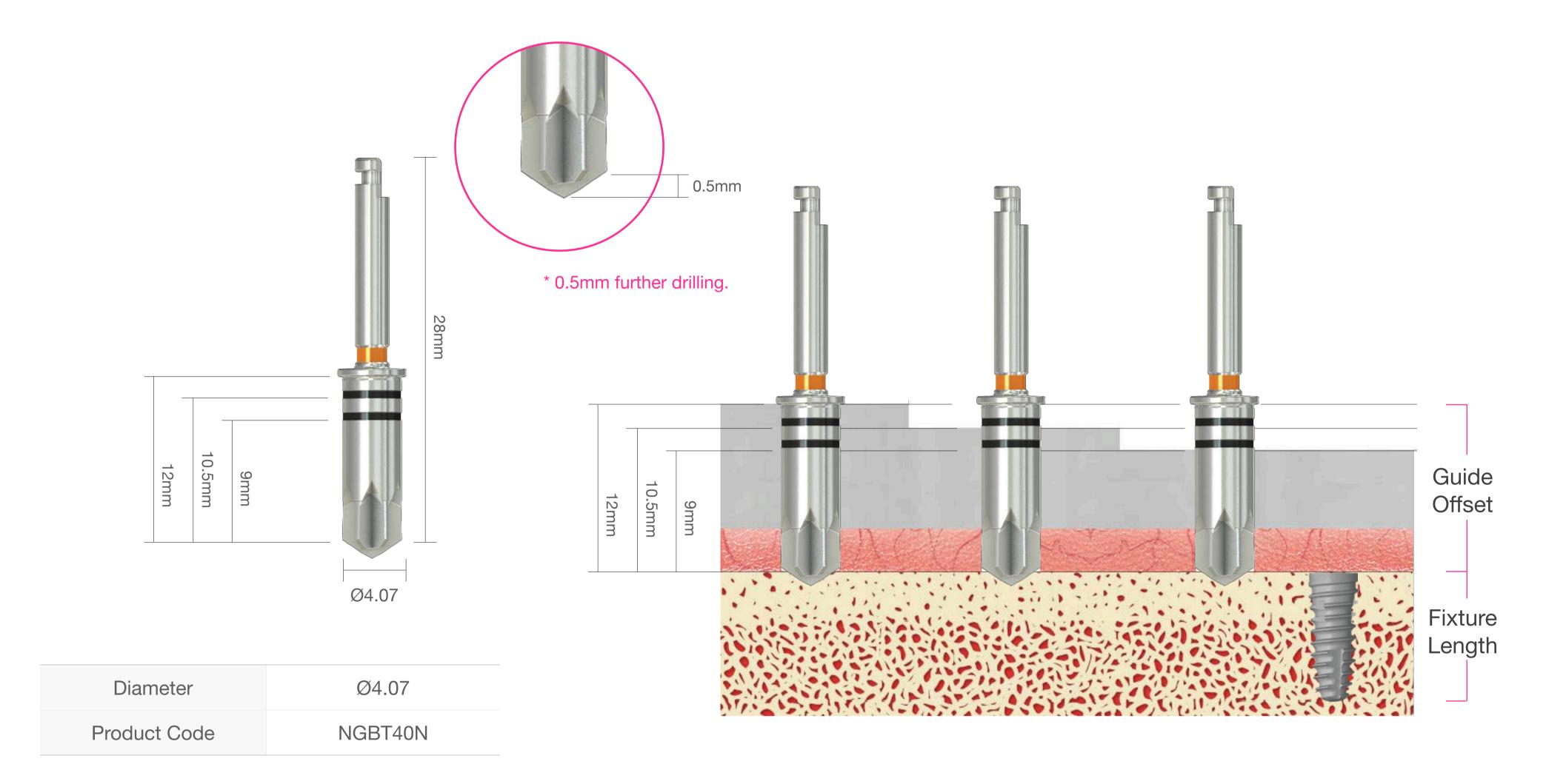
★ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm



Bone Trimmer

Used to the bone level by removing residual alveolar bone.

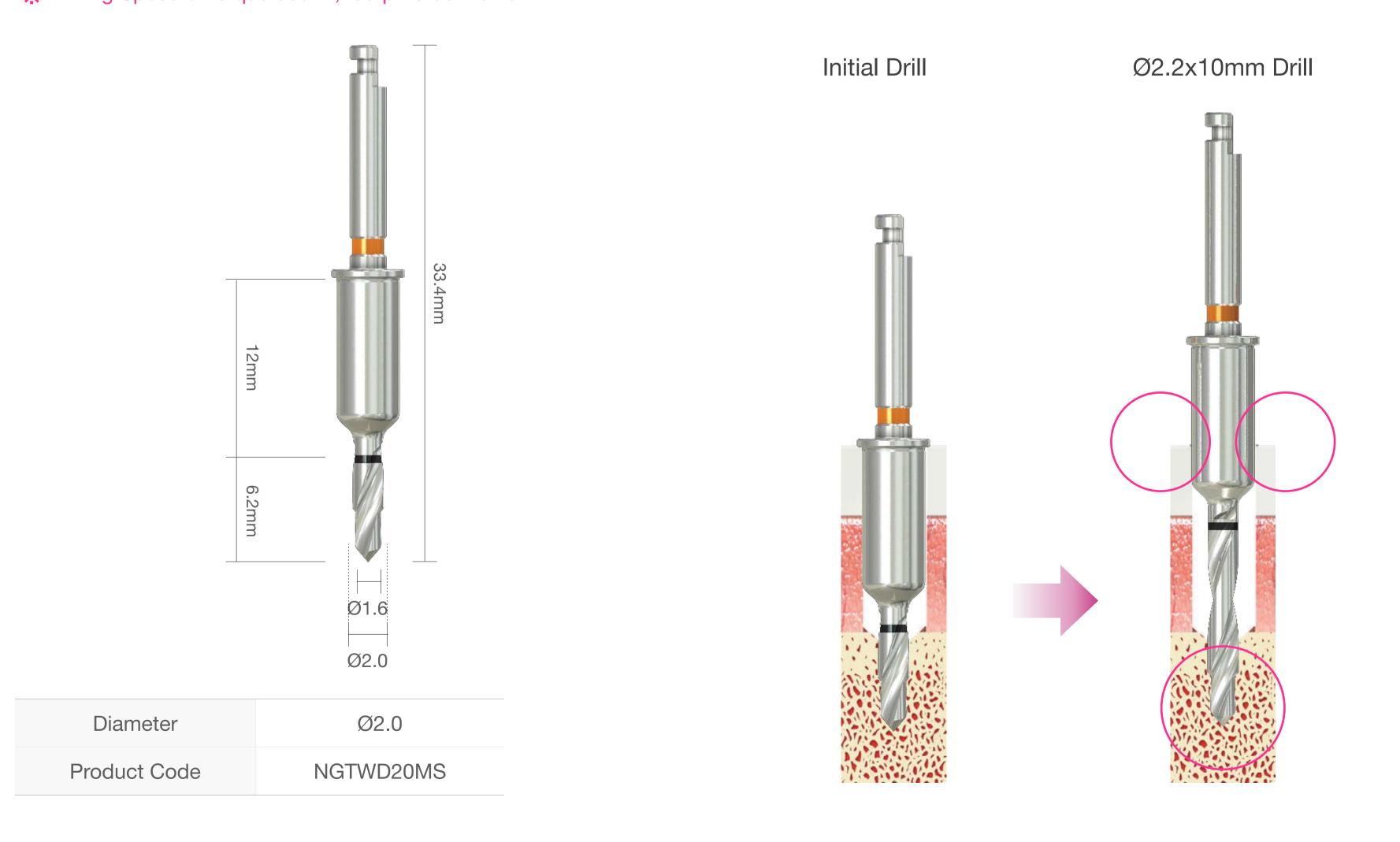
☼ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm



Initial Drill

During initial drilling, secure the foundation hole so that the axis of the drill does not shake when in the correct position and direction.

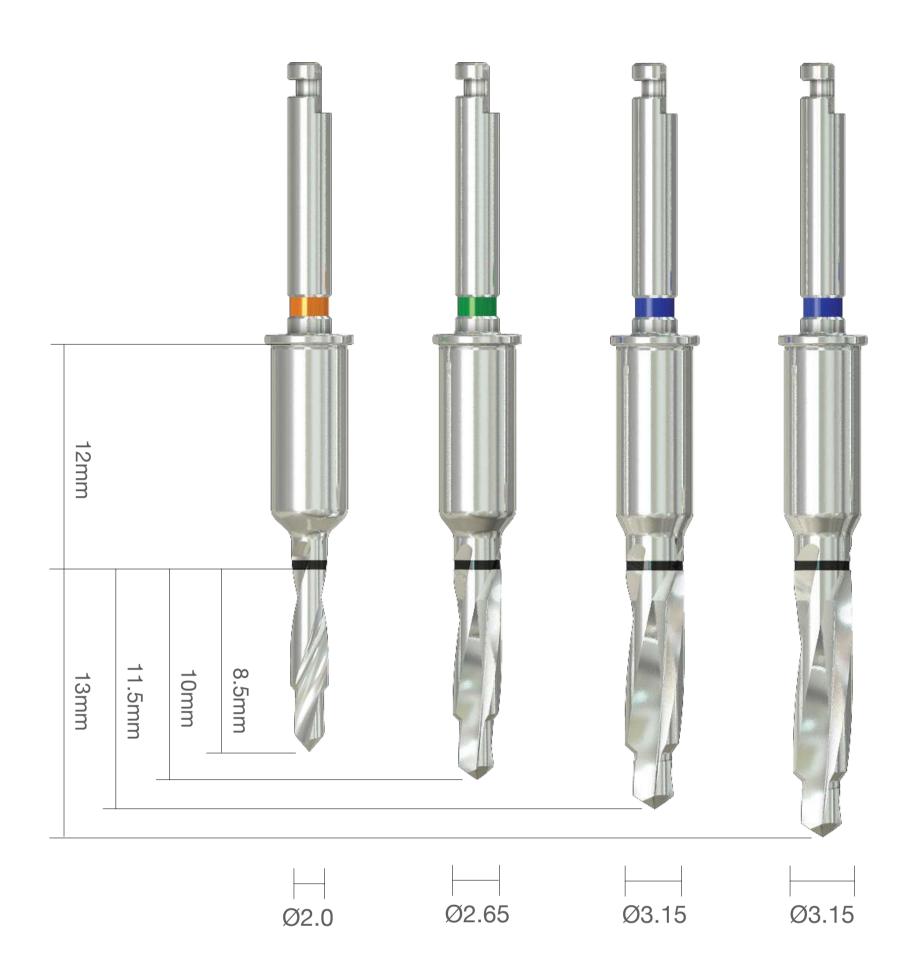
★ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm



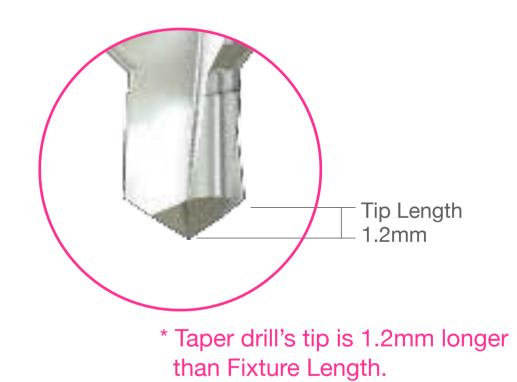
Taper Drill (Final Drill)

Used to expand the hole depends on the drill size in order to fit the fixture size.

☼ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm



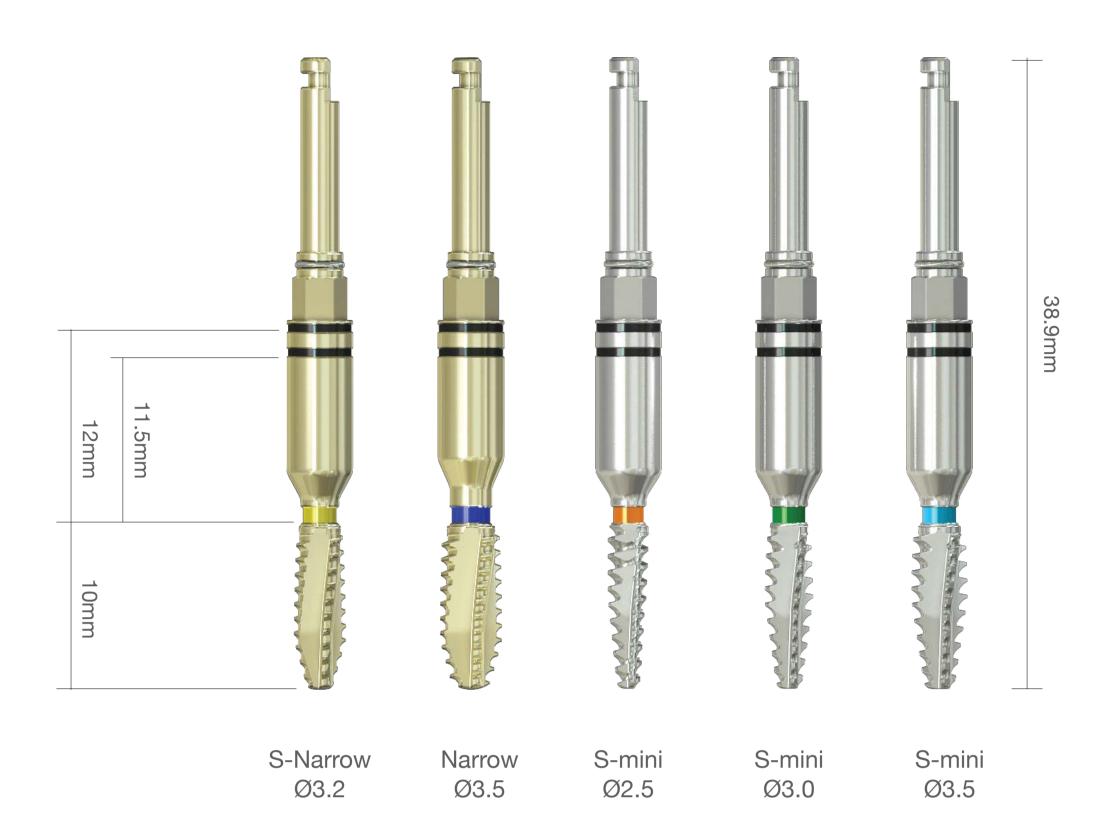
Drill Ø	Length	Product Code		
	8.5mm	NGTWD2008M		
	10mm	NGTWD2010M		
Ø2.0	11.5mm	NGTWD2011M		
	13mm	NGTWD2013M		
Ø2.65	8.5mm	NGTWD2608M		
	10mm	NGTWD2610M		
	11.5mm	NGTWD2611M		
	13mm	NGTWD2613M		
	8.5mm	NGTWD3108M		
CO 45	10mm	NGTWD3110M		
Ø3.15	11.5mm	NGTWD3111M		
	13mm	NGTWD3113M		



Tap

When placing the fixture, cortical tapping for Anytime Loading. Prevent over torque depends on Fixture Size.

★ Drilling Speed & Torque 30~50rpm / 30~45Ncm

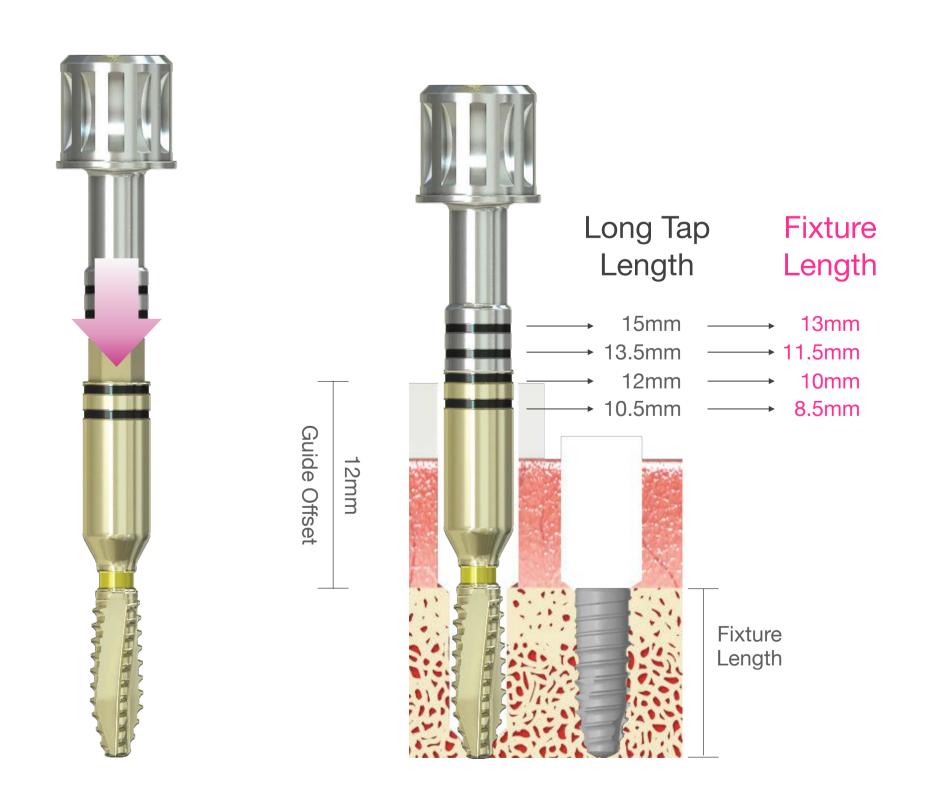


Drill Ø	Diameter	Product Code
S-Narrow	Ø3.2	NGFT32L09M*
Narrow	Ø3.5	NGFT35L09M*
	Ø2.5	NGFT25L10M*
S-Mini	Ø3.0	NGFT30L10M*
	Ø3.5	NGFT35L10M*

* OPTIONAL

Connector

Used to transmit torque when connected to the tap and ratchet. When inserted to the tap, it can be used as a long tap by using a marker.



Length	10mm			
Product Code	NGRC10N			

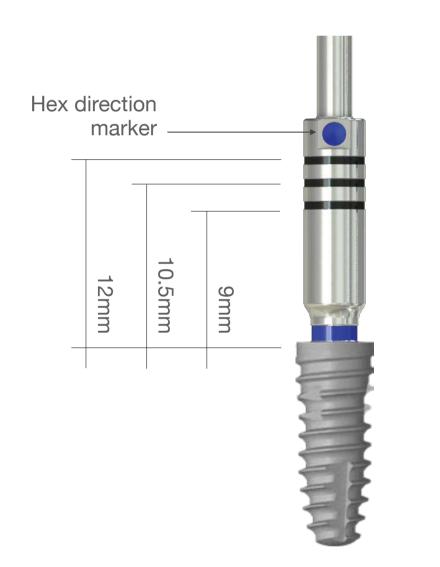
Fixture Driver

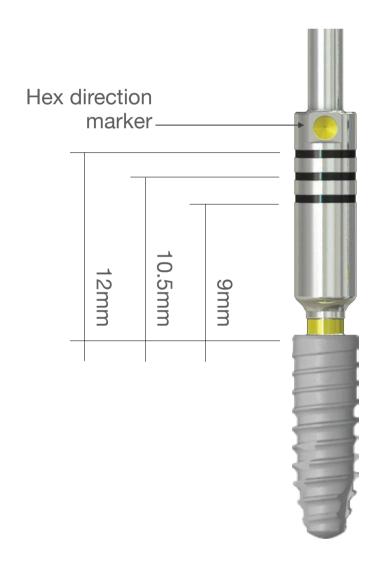
- 1) Use it for fixture placement.
- 2) Be careful as the driver may be separated from the fixture when placing the fixture.
- ☼ Drilling Speed & Torque 30~50rpm / 30~45Ncm



Type	Product Code
Ratchet	NGISFDRNA*
Contra Angle	NGISFDCANA*
Ratchet	NGISFDRSN*
Contra Angle	NGISFDCASN*
Ratchet	NGSMFDR*
Contra Angle	NGSMFDCA*
	Ratchet Contra Angle Ratchet Contra Angle Ratchet

* OPTIONAL





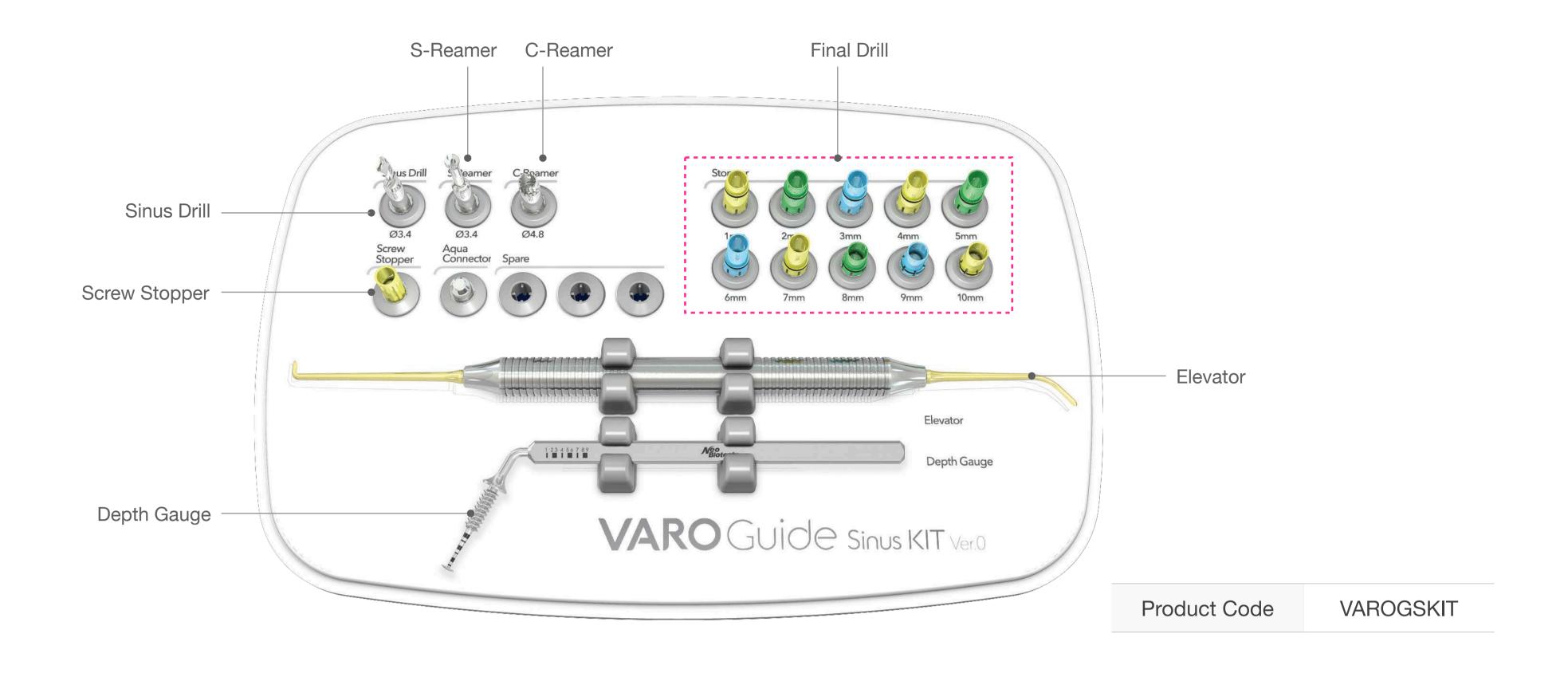


Drill Extension

Used to extend the length during drilling.



Product Code DE01



Stopper

Used to control the height by connecting it to the surgical tool according to the height of the remaining bone.

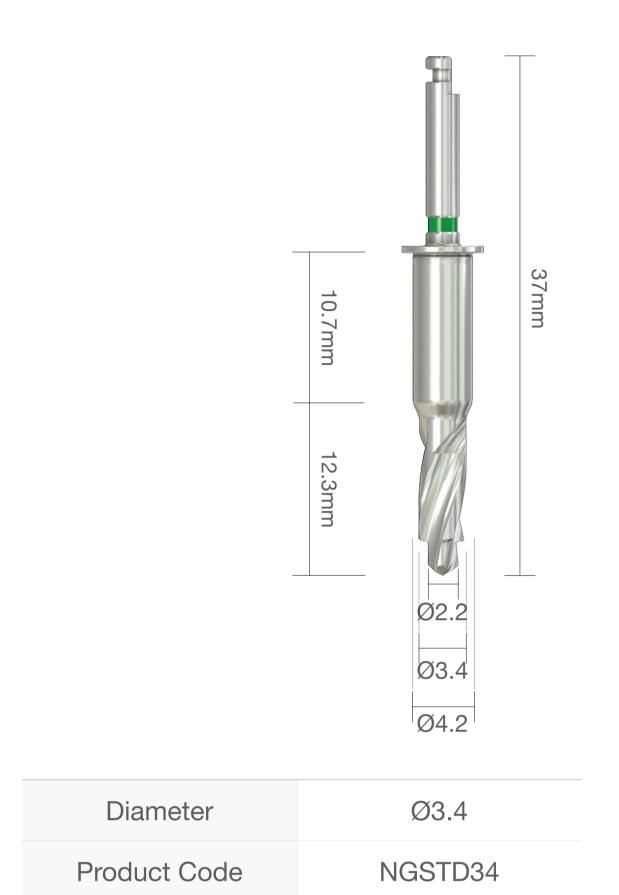


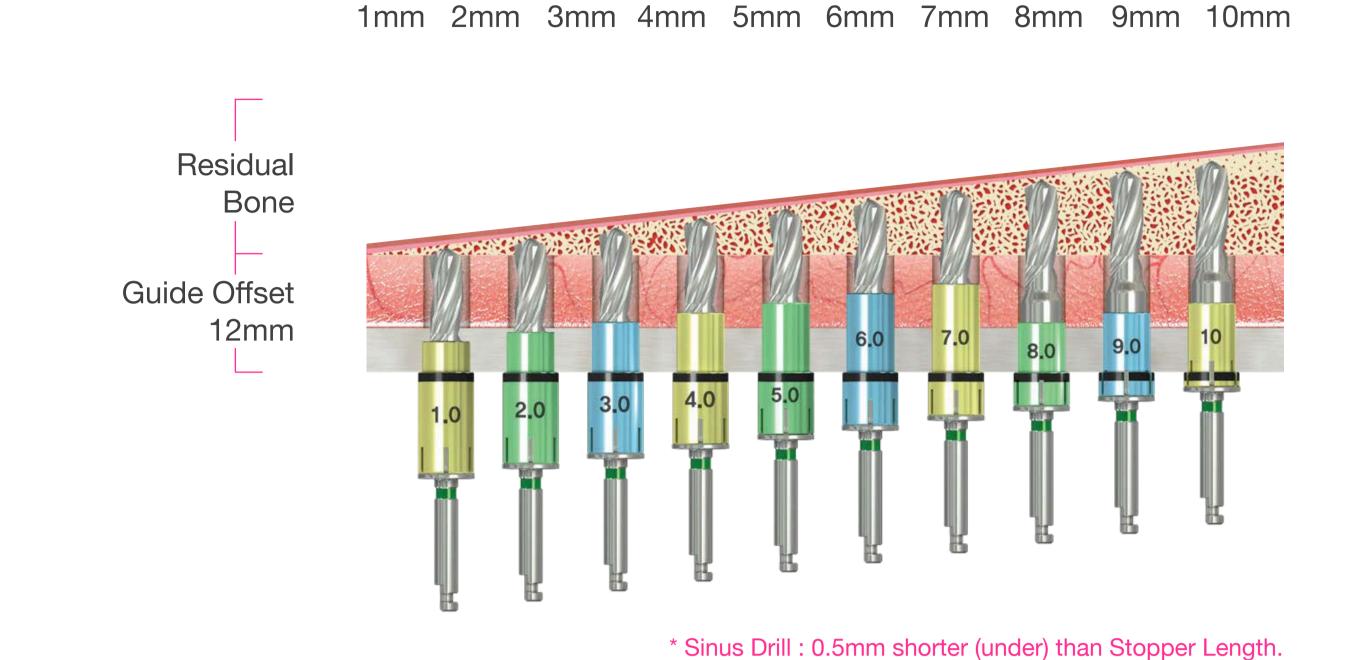
* Only stopper included. Please order Stopper holder(NGSSH) separately.

Sinus Drill

Used to make the initial hole.

☼ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm



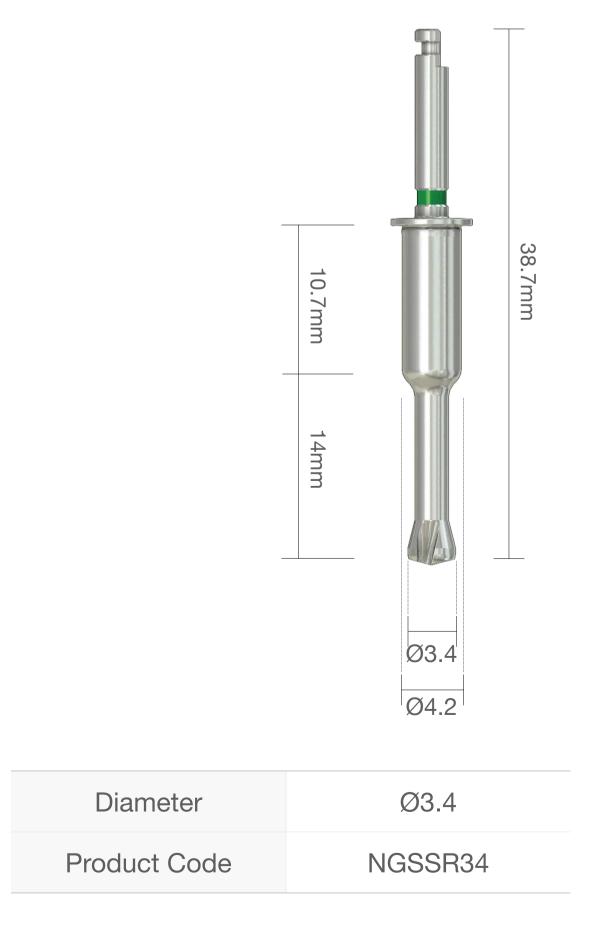


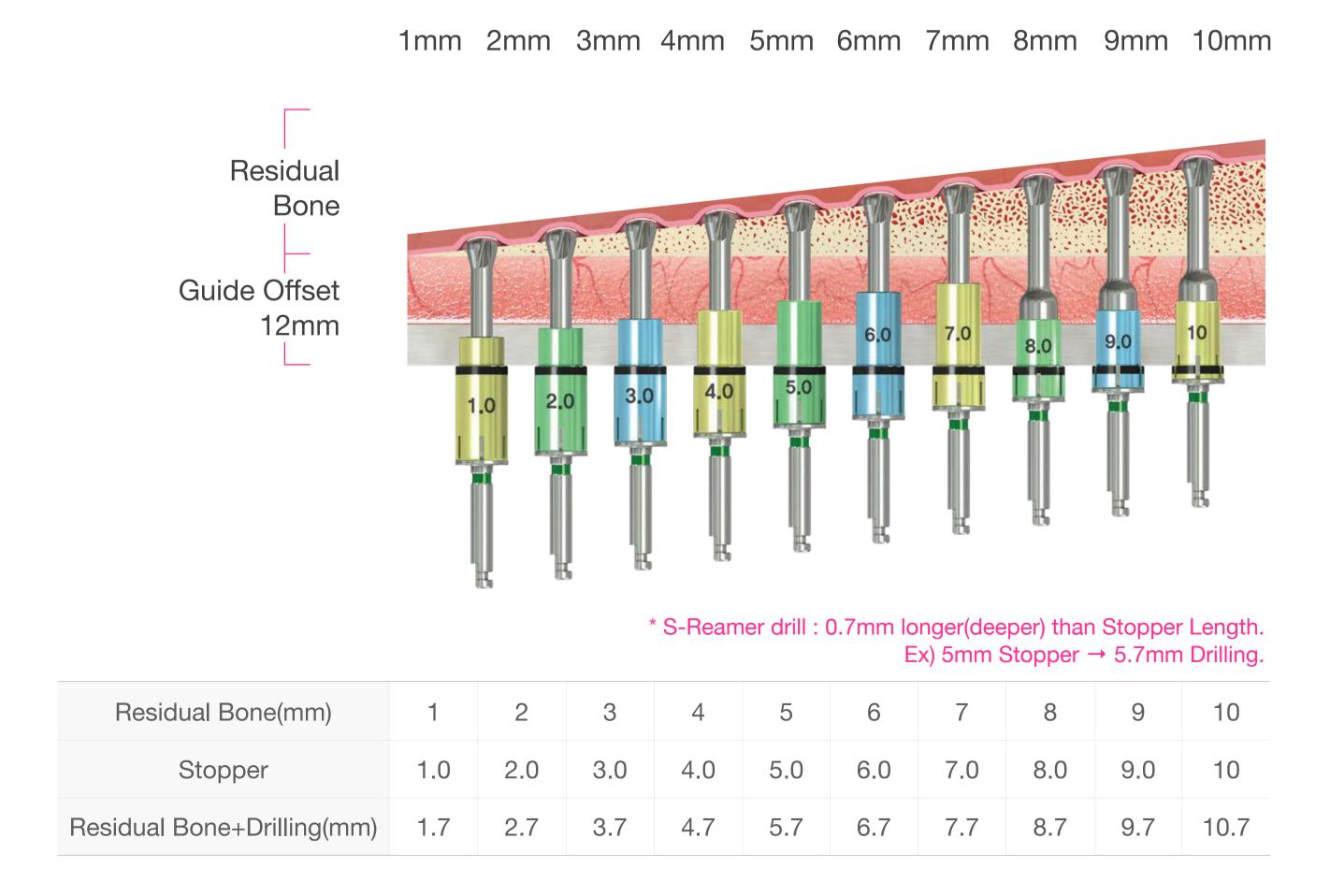
Residual Bone(mm)	1	2	3	4	5	6	7	8	9	10	
Stopper	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10	
Residual Bone+Drilling(mm)	0.5	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	

S-Reamer

Used to elevate the maxillary sinus membrane without damage.

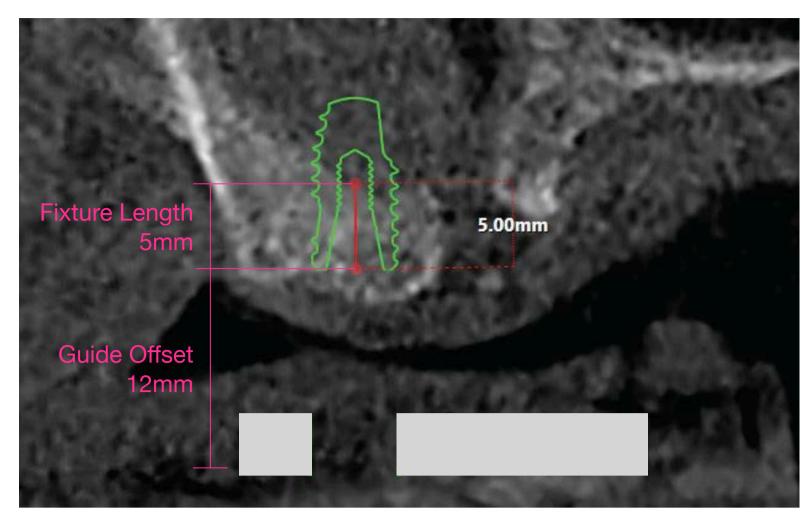
* Drilling Speed & Torque 800~1,200rpm / 30~45Ncm





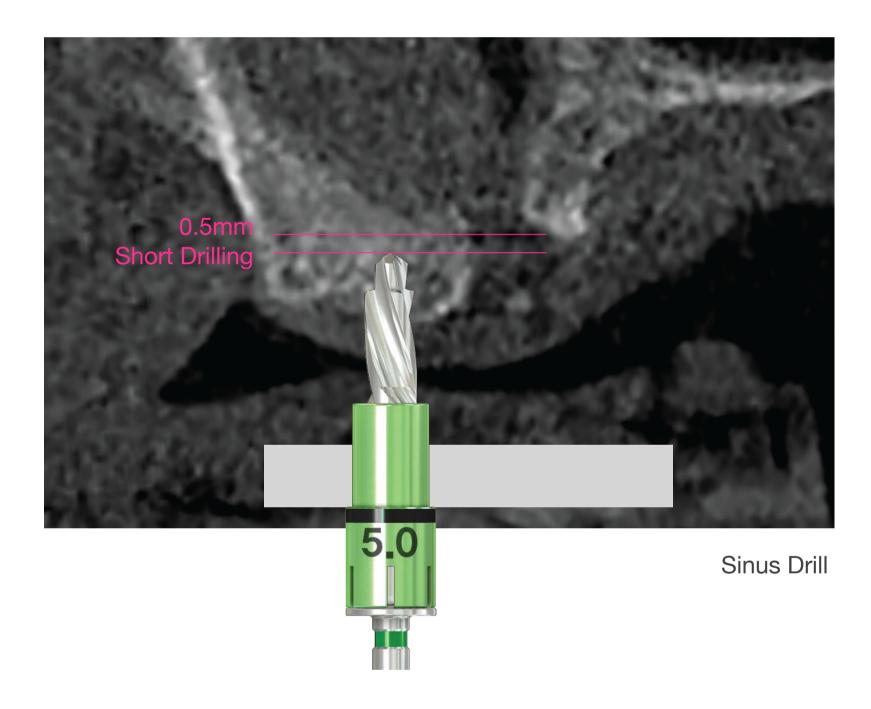
Ex) 5mm Stopper → 4.5mm Drilling.

Sinus Drill & S-Reamer

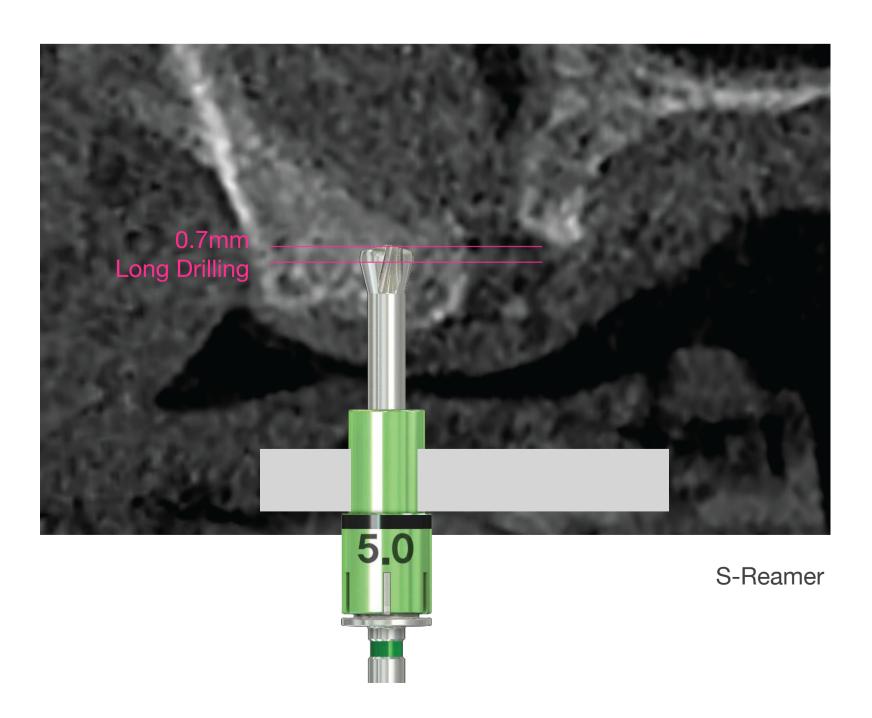


Implant Planning [VAROPlan S/W]

1) Set the distance from the planned fixture platform to the inferior cortical bone as the length of the residual bone, and select a stopper accordingly.



2) Drill by connecting the selected stopper with Sinus Drill. Drill up to 0.5mm under the inferior cortical bone.



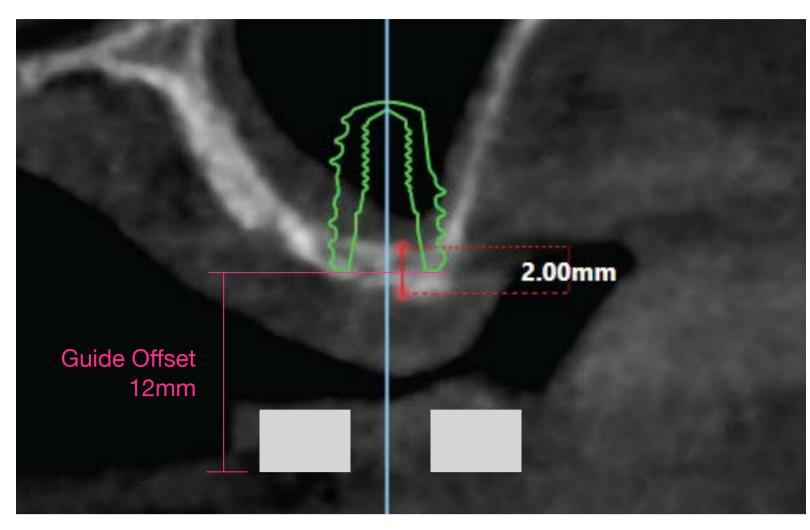
3) Drill by connecting the selected stopper with S-Reamer. Drill by lifting 0.7mm of the inferior cortical bone.

C-Reamer

Used to elevate the maxillary sinus membrane without damage.

☼ Drilling Speed & Torque 800~1,200rpm / 30~45Ncm

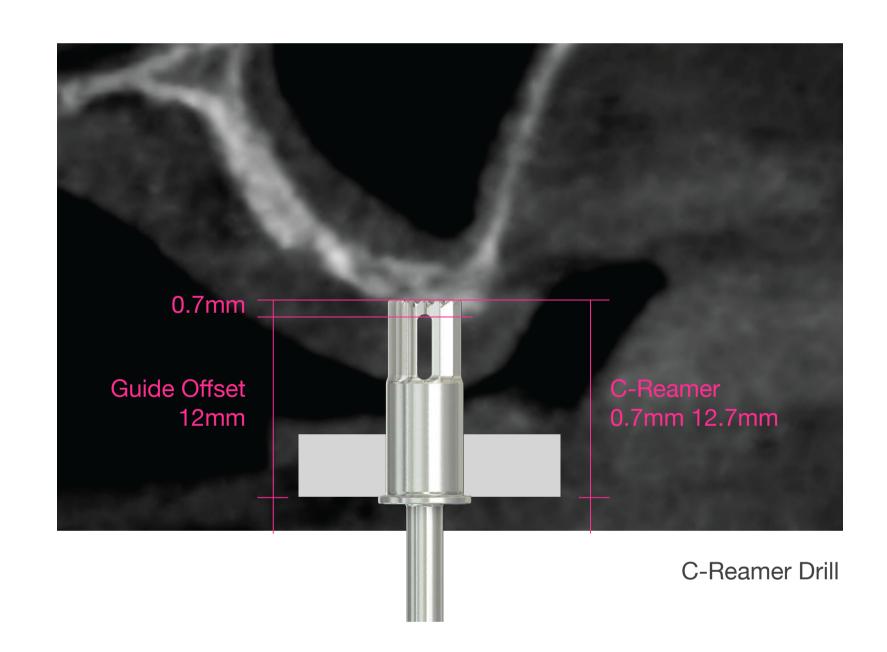




Implant Planning [VAROPlan S/W]

Diameter	Ø4.8
Product Code	NGSCR4513





Guide Depth Gauge

Used to check whether the correct depth was attained after drilling.



Diameter Ø3.0

Product Code NGSDG30

Bone Condenser & Aqua Connector

To place the grafting bone into the sinus hole, and is used to elevate the membrane using water.



Product Code No

NGBCACS

Aqua connector

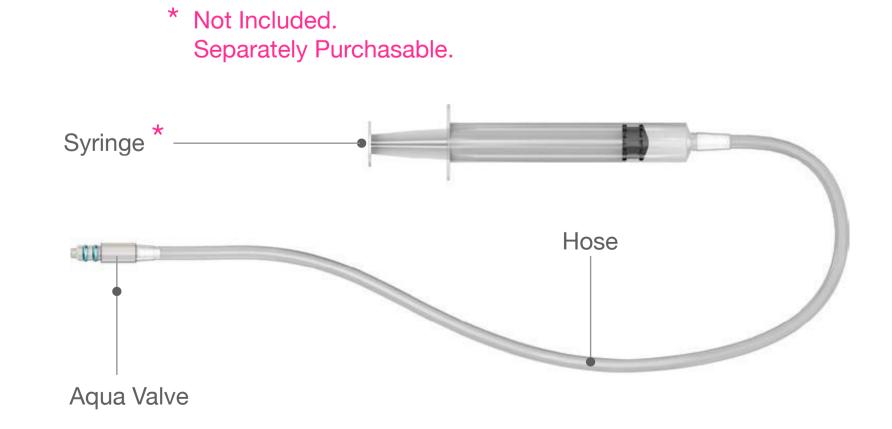
Used to elevate or peel membranes.



Product Code

NGACR

Aqua system (Aqua Valve, Hose (Set))





Product Code

AQHST

Elevator

Used to elevate or peel membranes.



Product Code

SLE02

Bone Carrier

Used to place the grafting bone into the sinus hole. (0.05cc per time).



Product Code

JUMBO2

