OSSTEM KIT

OSSTEM IMPLANT

VANEST

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CEO's Message

Providing cutting edge technology and superior quality

Making products that dentists want to use,
trust, and are satisfied with :
This is our mission at OSSEM IMPLANT



We are forever grateful to all the dentists who have given unwavering support to OSSTEM IMPLANT

Thank you for using Osstem Implant. Osstem, Korea's first implant manufacturer, has secured world-class implant competitiveness through continuous R&D investment and quality innovation.
It has grown to become Asia-Pacific No.1 and World No.5 Implant Company. In addition to dental implants and treatment tools, we are leading the development of products that are essential for dentists, including dental equipment, dental materials, and dental IT, and contribute to the development of the dental industry.
The comprehensive catalog of the 2018-19 product series published here shows Osstem's technology-rich products.
We have focused on catalog structure so that it is convenient to browse and order products. In particular, in the case of fixtures, abutments, and surgical tools, we introduced the diameter, length, and functions in detail.

GBR products are also easy to order by type, size and capacity. In addition, the product release date and time are displayed so that customers can understand when the existing product is released and what the newly released product is. We also introduced the CAD/CAM product in terms of preparing the digital dentistry, a major trend in the dentistry. In terms of design, we also implemented high-quality images of representative products by specification. By applying representative colors for each product system, it is easy to sort by category. We hope this will help you effectively find and purchase the products you need from the dental clinic of 2018-19. Osstem Implant will continue to develop products that the dentist can trust. We will work to create greater customer value. Thank you.

CEO of OSSTEM IMPLANT
Choi Kyu-ok (DDS.Ph.D)

Worldwide & History



EMEA

Germany, United Kingdom, France, Italy, Sweden, Denmark, Finland, Norway, Poland, Hungary, Spain, Portugal, Bulgaria, Romania, Serbia, Slovakia, Croatia, Czech, Estonia, Greece, Latvia, Lithuania, Albania, Malta, Ukraine, Tunisia, Sudan, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Syria, Pakistan, Saudi Arabia, UAE, Kyrgyzstan

ASIA / OCEANIA

China, South China, Hong Kong, Chinese Taipei, Japan, India, Russia, Kazakhstan, Thailand, Singapore, Malaysia, Indonesia, Vietnam, Philippines, Bangladesh, Cambodia, Sri Lanka, Myanmar, Mongolia, Australia, Papua New Guinea

N/S.AMERICA

USA, Canada, Mexico, Chile, Colombia, Peru, Costa Rica

1997

01 Established 'Osstem Co., Ltd.'
12 Released 'Doobunae' (health insurance claim application software program)

2000

06 Released 'Hanaro' (dentistry management software)
10 Acquired sumin comprehensive dental materials

2001

01 Obtained CE-0434 certification
03 Established AIC training center

2002

01 Established Osstem Implant R&D center
08 Obtained FDA certification, launched USII line
10 Launched SSII line

2006

03 Changed the company name to Osstem Implant Co., Ltd
04 Obtained GOST-R certification (russia)
12 Established 12 overseas branches (first round)

2007

02 Listed on KOSDAQ and began trading publicly
06 Selected as No.1 products for the next generation and obtained TGA certification (australia)

2008

01 Established osstem bone science research center
12 Selected as a managing organization for the national strategic technology development project

2009

10 Obtained approval for medical device manufacturing and sale from the ministry of health, labor and welfare, japan

2010

03 Launched TSIII SA line
06 Launched TSIII HA line

2011

06 Osstem Implant R&D center was selected as ATC (advanced technology center)
07 Selected as 'World Champ' business
12 Launched 'K2 unit chair', which was selected as a 'World Class Product'

2012

06 Launched TSIII CA line
07 Established osstem dental equipment research institute

2013

01 Launched osstem xenograft material 'A-Oss'
09 Launched 'K3 unit chair'
10 Selected as a 'Hidden Champion' company

2014

05 Selected as 'World Class 300'
05 Released 'HyFlex', an impression material
08 Released 'BeauTis' whitening material

2015

03 Established Osstem BioPharma Co., Ltd.
12 Awarded 'USD 50 Million Export Tower'

2016

01 Established Vussen Co., Ltd.
03 Acquired Cardiotec Co., Ltd.
08 Acquired Hubit Co., Ltd.
11 Launched OneGuide system

2017

12 2017 presidential commendation for job creation

2018

01 TS exceeded 10 million production

OSSTEM® Implant Design feature

OSSTEM IMPLANT has revolutionized implant dentistry in South Korea. With a focus on aggressive R&D, a commitment to education and a dedication to manufacturing the best products, Osstem Implant's ultimate goal is to become the global leader in implant dentistry.



TS



Each implant system has its own unique color code

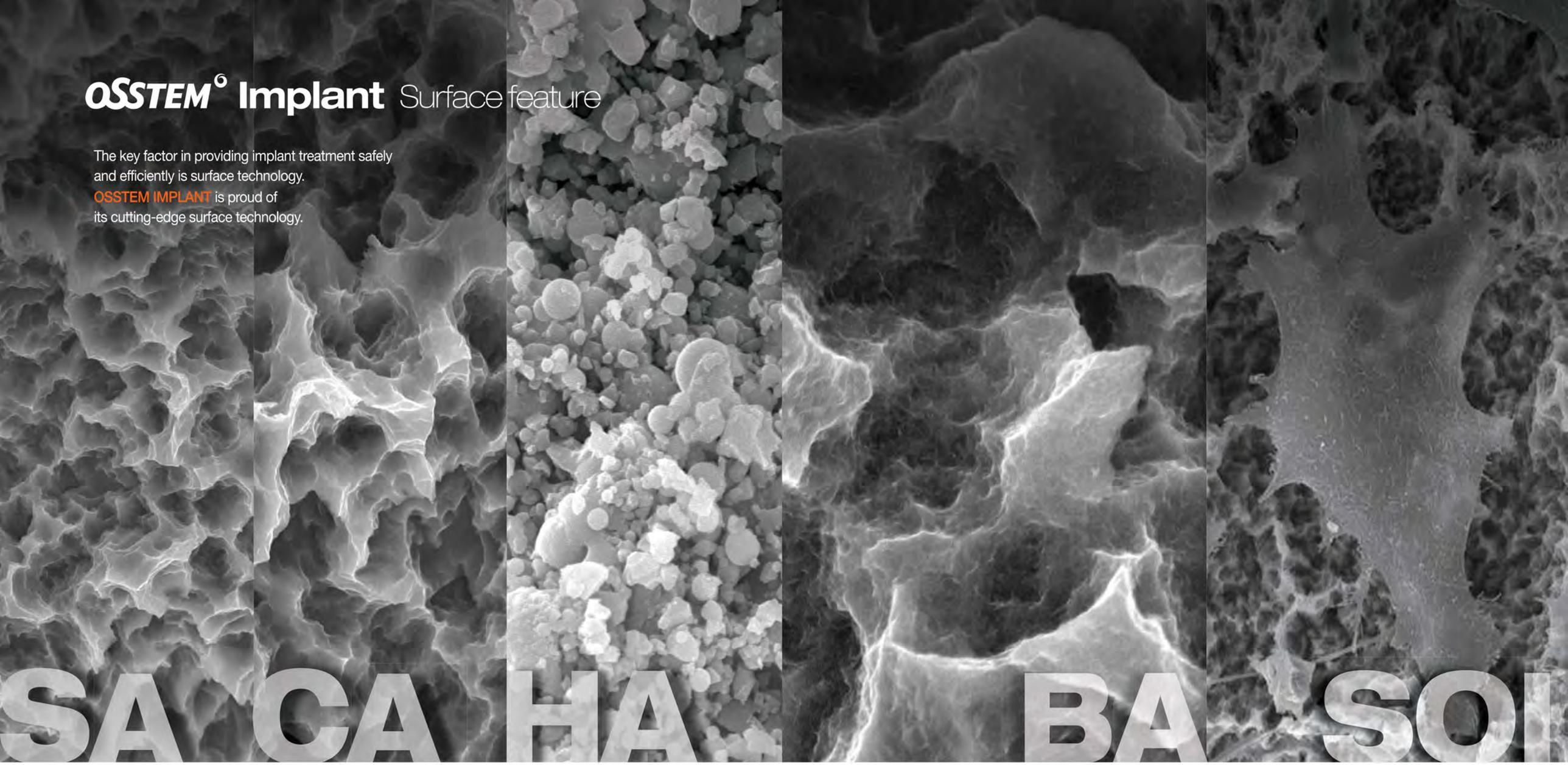
Submerged type implant with an internal hex and 11˚tapered connection

- Internal connection type - Mini / Regular
- Excellent initial stability in soft bone due to smaller threads in the upper section
- Corkscrew thread with cutting edges
  - Strong self-threading effect for easy fixture path
  - Higher initial stability and consistent insertion torque
- Different body types to properly match the patient's bone quality and clinical condition
  - TSII (straight body) : easy to adjust depth
  - TSIII (1.5˚ tapered body) : excellent initial stability necessary for immediate loading, even in soft bone
  - TSIV (6˚ tapered body) : specifically designed for the maxillary sinus and soft bone, excellent initial stability
- Available surface types - SA / CA / HA / BA / SOI

OSSTEM IMPLANT

OSSTEM Implant Surface feature

The key factor in providing implant treatment safely
and efficiently is surface technology.
OSSTEM IMPLANT is proud of
its cutting-edge surface technology.



Acid Treated Optimized Surface

- Ra 2.5~3.0㎛ surface roughness
  (note : the upper 0.5mm part of the implant
  has Ra 0.5~0.6um)
- Consistent surface micro pits between 1 to 3㎛
- Surface area is increased by 46 percent
  compared to RBM treated implants

In-vitro & In-vivo Bone Response

- 20% improvement in osteoblast separation
  and ossification compared to RBM
- Initial bone reaction performance in animal
  model (mini-pig)
  - 48% improvement in initial stability
    (RT, 4 weeks) compared to RBM
  - 20% improvement in ossification
    (BIC, 4 weeks) compared to RBM

Super-hydrophilic SA surface suspended in a calcium solution

- Same SA surface morphology
- Optimizing surface reaction by suspension
  in a calcium (CaCl2) solution
- Increased new bone formation area due to
  the excellent blood wettability
- Bone response improved in early
  osseointegration stage compared to
  standard SA surface

In-vitro & In-vivo Bone Response

- Protein and cellular adhesion tripled
  compared to SA surfaces
- Initial cellular differentiation by 19 percent
  compared to SA surfaces (7 days)
- Initial stability increased by 34 percent
  compared to SA surfaces (RT at 4 weeks)
- Ossification rate Increased by 26 percent
  compared to SA surfaces (BIC at 4 weeks)

Premium high-crystalline HA-coated surface

- 30 to 60㎛ thick high-crystalline
  HA coating
- HA coated onto a RBM surface
  (Ra 3.0 to 3.5㎛)
- High HA crystalline over 98 percent
- Solved the problem with low-crystalline
  HA resorption

In-vitro & In-vivo Bone Response

- Excellent biocompatibility in HA that is similar
  to bone
- Initial ossification by osteoblasts doubled
  compared to SA surfaces (5 days)
- 40% improvement in initial stability (RT, 4 weeks)
  in animal models compared to SA
- Suitable for poor bone quality, tooth extraction
  sites or immediate implant insertion

Premium low crystalline nano-HA coated SA surface

- SA surface (Ra 2.5 to 3.0㎛) coated with HA
- 10nm ultra-thin HA coating
- Dual function between titanium and HA
  - HA is naturally resorbed during ossification

In-vitro & In-vivo Bone Response

- Advantages of both SA and HA surfaces
  - SA's ability to maintain an optimal surface
  - HA's ability to form high quality initial bone,
    even in a poor bone quality
- 40% improvement in ossification (BIC)
  compared to SA
- It is applicable to all types of bone quality

Next-generation surface coated with special material (K material)

- Activation of blood clot formation
- Avoid carbon adsorption in air
- Coating of K material on SA surface
  (Ra 2,0~3.0㎛)
- Superior blood wettability with super
  hydrophilic surface.

In-vitro & In-vivo Bone Response

- Protain and cellular adhesion 130 times
  increase compared to SA surface
- Initial stability increased by 57 percent
  compared to SA surfaces (RT at 4 weeks)
- Surface with the shortest duration of surgery

OSSTEM IMPLANT

122 Taper KIT (O122TPK)

For TSIII / IV SSIII USIII / IV

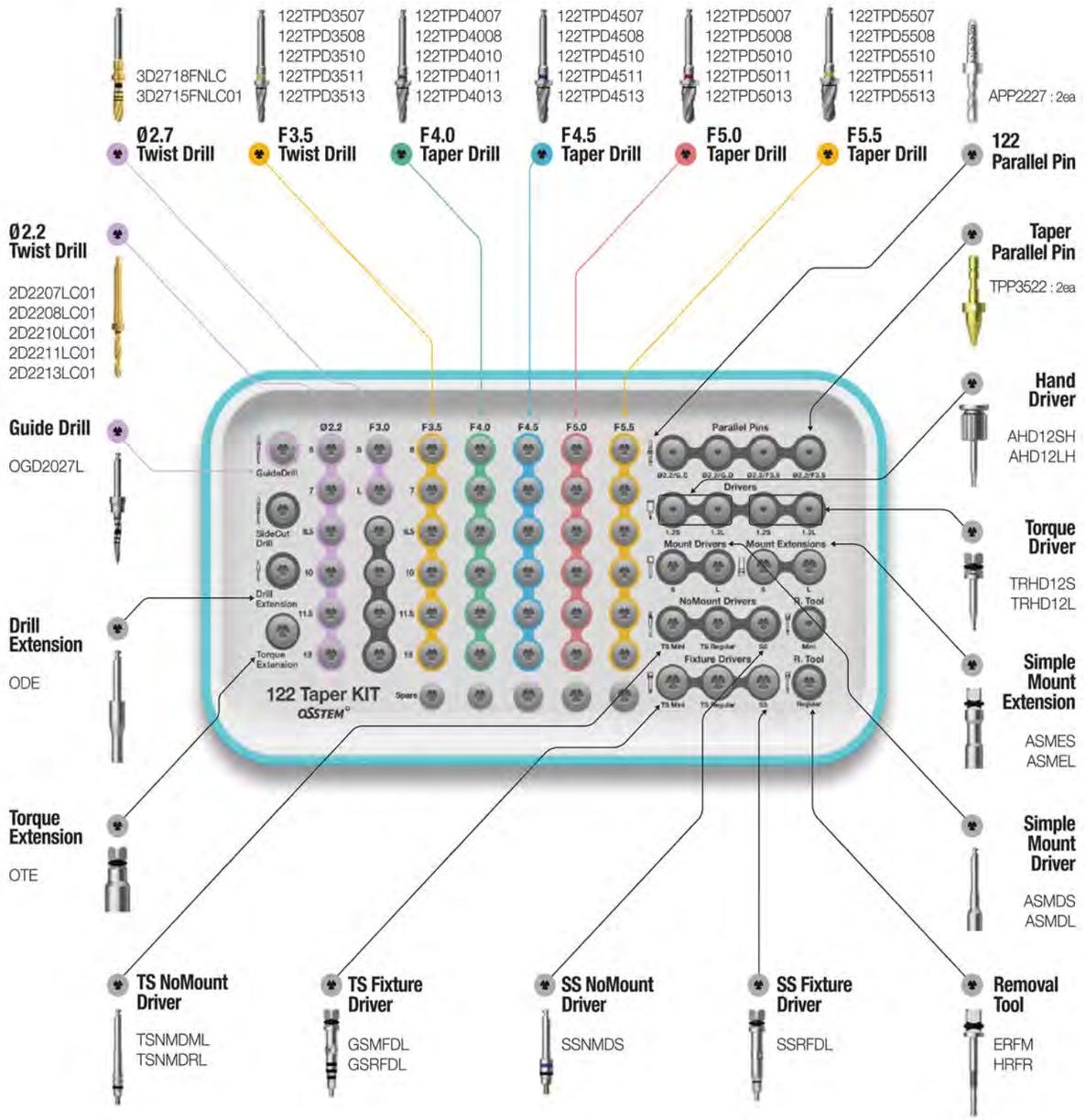
Top panel components

Torque Wrench
TW30B



Depth Gauge
OSDG





122 Taper KIT Surgical Instruments

122 Taper Drill

- Taper drill for taper (III type) fixture
- Specification by diameter and length
- Color coding displays fixture diameter
- One step large-diameter drill is used to remove cortical bone from the hard bone
- 122 taper KIT single item (excluded from taper KIT)
- F = Fixture



L	TL	F3.5	F4.0	F4.5	F5.0	F5.5	F6.0	F7.0
	Y-Dim.	0.7	0.9	1.0	1.0	1.0	1.0	1.0
4.0	29.5	122TPD3504	122TPD4004	122TPD4504	122TPD5004	122TPD5504	-	-
5.0	29.5	122TPD3505	122TPD4005	122TPD4505	122TPD5005	122TPD5505	-	-
6.0	30.5	122TPD3506	122TPD4006	122TPD4506	122TPD5006	122TPD5506	122TPD6006	122TPD7006
7.0	31.5	122TPD3507	122TPD4007	122TPD4507	122TPD5007	122TPD5507	122TPD6007	122TPD7007
8.5	33	122TPD3508	122TPD4008	122TPD4508	122TPD5008	122TPD5508	122TPD6008	122TPD7008
10	34.5	122TPD3510	122TPD4010	122TPD4510	122TPD5010	122TPD5510	122TPD6010	122TPD7010
11.5	34.5	122TPD3511	122TPD4011	122TPD4511	122TPD5011	122TPD5511	122TPD6011	122TPD7011
13	36	122TPD3513	122TPD4013	122TPD4513	122TPD5013	122TPD5513	122TPD6013	122TPD7013
15	38	122TPD3515	122TPD4015	122TPD4515	122TPD5015	122TPD5515	-	-
Color		Yellow	Green	Blue	Red	Yellow	Green	Blue

Cortical Drill for Ultra-Wide

- Drill used to remove cortical bone from hard bone (for ultra-wide)
- Dedicated drill by fixture diameter
- It is recommended to drill to the bottom line of the marking line
- F = Fixture

F6.0	F7.0
CD4C60	CD4C70

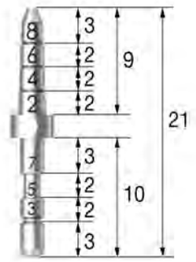


Parallel Pin for 122 Taper Drill

- Parallel pin for 122 taper drill
- Used for checking position and direction of bone preparation
- Lower part for 2.2 drill, upper part for guide drill
- 122 taper KIT single item (excluded from taper KIT)
- Other components same as taper KIT

APP2227

※ Refer to surgical instruments for other components (105p~)



Drilling Sequence **122 Taper Drill**

TSIII | SSIII | USIII

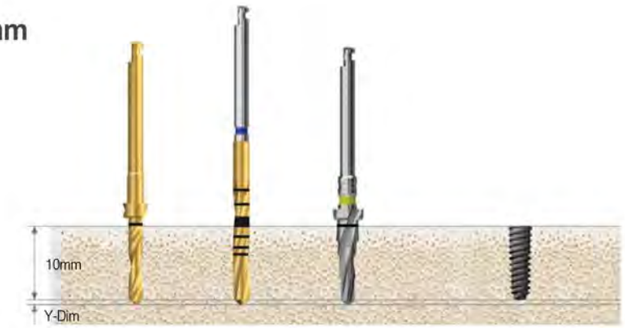
(Length : 10mm)

F5.5 taper cortical drill marking line Bottom line 6mm or less, middle line 7mm, top line 8.5mm or more fixture placement standard

Recommended placement torque Below than 40Ncm, TSIII/SSIII HA : below than 35Ncm (In hard bone, HA coating layer cracking and peeling can occur)

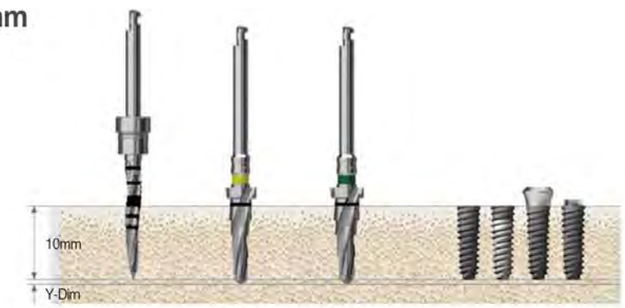
TS fixture placement depth The normal bone is placed 1mm deeper than the bone level, and the soft bone is placed at the bone level to maintain the fixed strength

ø3.0mm



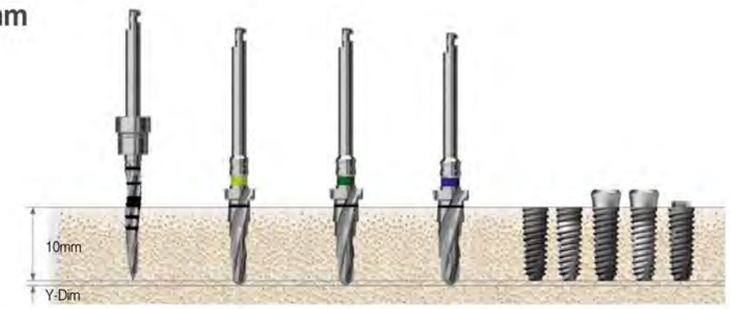
Bone Quality	ø 2.2 Drill	ø 2.7 Drill	F3.5 Taper Drill	ø 3.0 Fixture
Soft	▶			
Normal	▶	▶		Implant Placement
Hard	▶		▶	

ø3.5mm



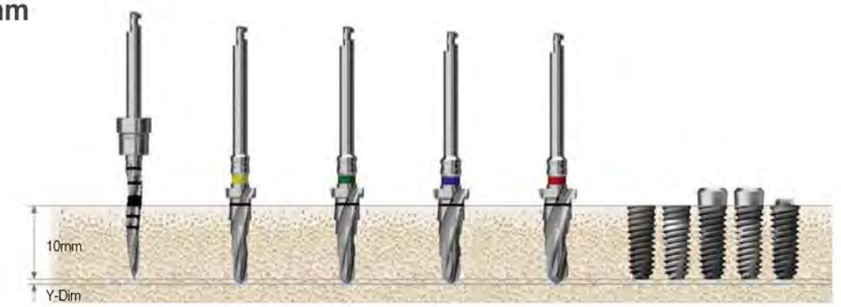
Bone Quality	Guide Drill	F3.5 Taper Drill	F4.0 Taper Drill	ø 3.5 Fixture
Soft	▶			
Normal	▶	▶		Implant Placement
Hard	▶	▶	▶	

ø4.0mm



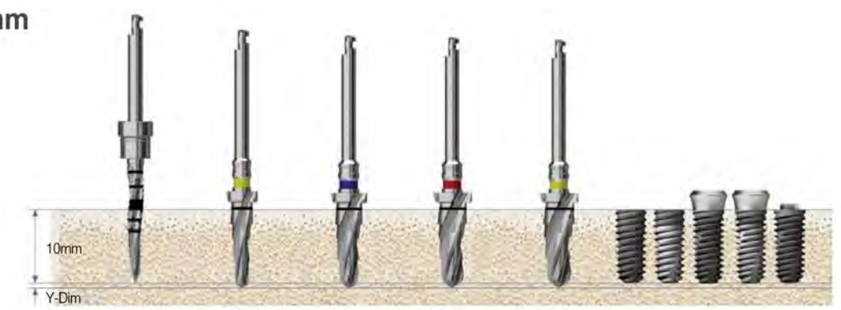
Bone Quality	Guide Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	ø 4.0 Fixture
Soft	▶	▶			
Normal	▶	▶	▶		Implant Placement
Hard	▶	▶		▶	

ø4.5mm



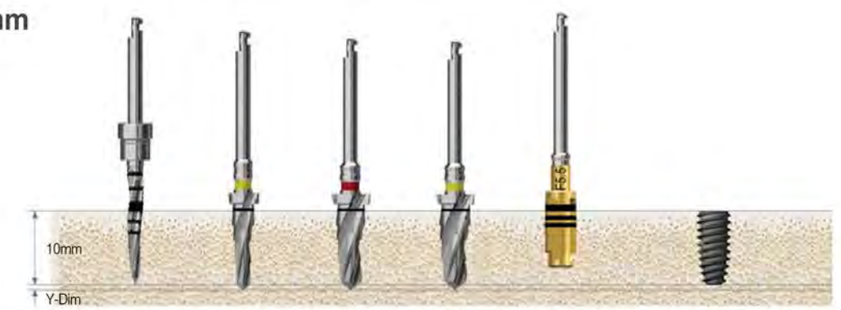
Bone Quality	Guide Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	F5.0 Taper Drill	ø 4.5 Fixture
Soft	▶		▶			
Normal	▶	▶		▶		Implant Placement
Hard	▶	▶			▶	

ø5.0mm



Bone Quality	Guide Drill	F3.5 Taper Drill	F4.5 Taper Drill	F5.0 Taper Drill	F5.5 Taper Drill	ø 5.0 Fixture
Soft	▶		▶			
Normal	▶	▶		▶		Implant Placement
Hard	▶	▶			▶	

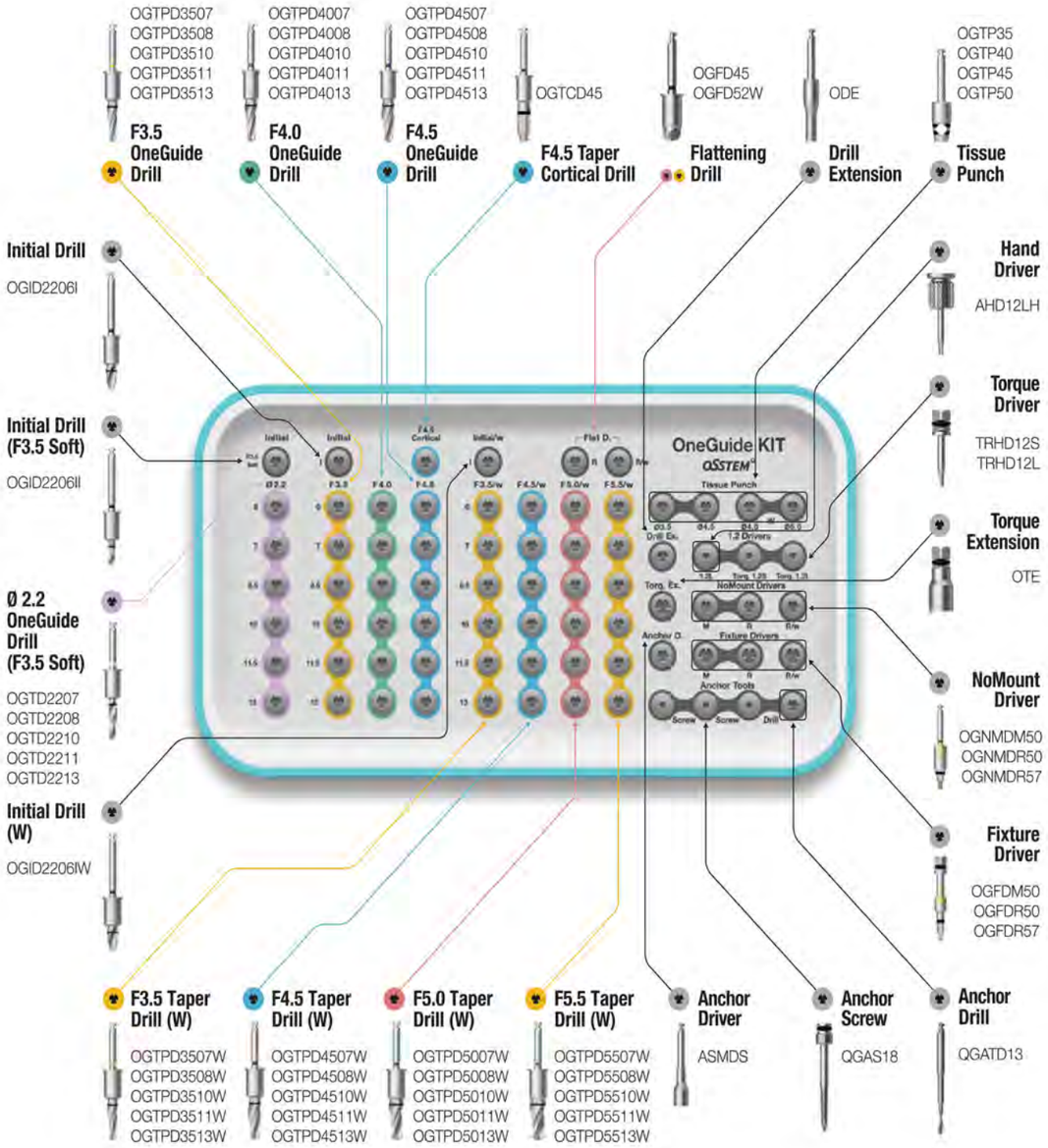
ø5.5mm



Bone Quality	Guide Drill	F3.5 Taper Drill	F5.0 Taper Drill	F5.5 Taper Drill	F5.5 Taper Cortical Drill	ø 5.5 Fixture
Soft	▶		▶			
Normal	▶	▶		▶		Implant Placement
Hard	▶	▶		▶	▶	

OneGuide KIT (OOGK)

For TSIII / IV SSIII USIII



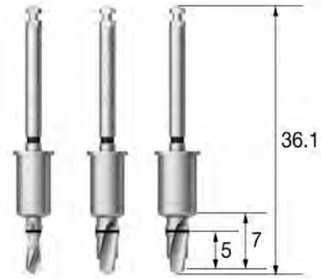
OneGuide KIT Surgical Instruments

OneGuide



- There are open type and close type
  - The open type can be used in the molar with restricted opening
- It consists of 2 guide holes according to the diameter of the fixture
  - D5.1 : F3.5/4.0/4.5
  - D5.8 : F5.0
- Dual contact function ensures excellent positioning accuracy
- Simple drilling sequence by using 122 taper KIT drill
- Packing unit : surgical guide (option : OneFit abutment, temporary crown)

Initial Drill



- Selection of location after using tissue punch
- Securing the guide depth of the following drill
- 3 types (F3.5 soft / below F4.5 / for F5.0)

For F3.5 Soft	OGID2206II
For below F4.5	OGID2206I
For F5.0	OGID2206IW

Flattening Drill



- Used for narrow or uneven ridges
- There are a lot of cutting edges, so it is stably removed without bouncing
- 2 types (below F4.5 / for F5.0)

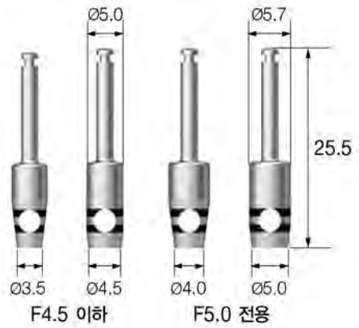
D	Ø4.5	Ø5.2
For Below F4.5	OGFD45	-
For F5.0	-	OGFD52W

OneGuide KIT Surgical Instruments

Tissue Punch

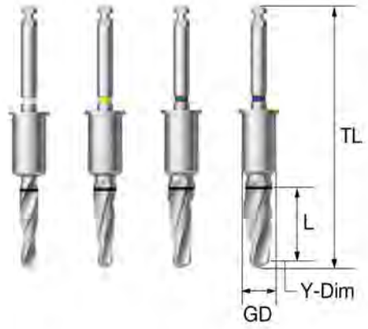
- It is used to remove gingiva
- Marking line at 1mm intervals according to gingival height
- 2 types of each (for below F4.5 / for F5.0)

For below 4.5	OGTP35	OGTP45
For F5.0	OGTP40	OGTP50



OneGuide Drill

- Optimized taper drill for III/IV type fixture
  (F3.5~5.0, 6~13mm fixture can be placed)
- Stable drilling with multistage structure
- 3 types (for F3.5 soft / below F4.5 / F5.0)
- Use of F4.5 cortical drill for F4.5 fixture hard bone surgery



F3.5 Soft Bone

L	TL	Ø2.2
	Y-Dim	0.7
	GD	5.0
7	36.1	OGTD2207
8.5	36.1	OGTD2208
10	36.1	OGTD2210
11.5	37.6	OGTD2211
13	39.1	OGTD2213

For below F4.5

L	TL	F3.5	F4.0	F4.5	F4.5 Cortical
	Y-Dim	0.7	0.9	1.0	-
	GD	5.0	5.0	5.0	5.0
6	36.1	OGTPD3506	OGTPD4006	OGTPD4506	-
7	36.1	OGTPD3507	OGTPD4007	OGTPD4507	-
8.5	36.1	OGTPD3508	OGTPD4008	OGTPD4508	-
10	36.1	OGTPD3510	OGTPD4010	OGTPD4510	OGTCD45
11.5	37.6	OGTPD3511	OGTPD4011	OGTPD4511	-
13	39.1	OGTPD3513	OGTPD4013	OGTPD4513	-

For F5.0

L	TL	F3.5(W)	F4.5(W)	F5.0(W)	F5.5(W)
	Y-Dim	0.7	0.9	1.0	1.0
	GD	5.7	5.7	5.7	5.7
6	36.1	OGTPD3506W	OGTPD4506W	OGTPD5006W	OGTPD5506W
7	36.1	OGTPD3507W	OGTPD4507W	OGTPD5007W	OGTPD5507W
8.5	36.1	OGTPD3508W	OGTPD4508W	OGTPD5008W	OGTPD5508W
10	36.1	OGTPD3510W	OGTPD4510W	OGTPD5010W	OGTPD5510W
11.5	37.6	OGTPD3511W	OGTPD4511W	OGTPD5011W	OGTPD5511W
13	39.1	OGTPD3513W	OGTPD4513W	OGTPD5013W	OGTPD5513W

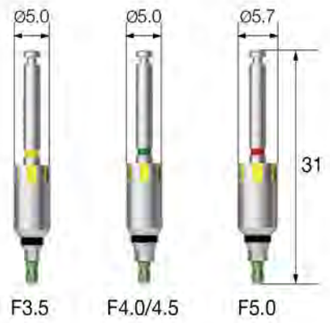
NoMount Driver

- Used when placing a nomount fixture

※ It is recommended that 80% of the planned fixture depth be placed

- C = Connection

C	Mini(Ø5.0)	Regular(Ø5.0)	Regular(Ø5.7)
F3.5	OGNMDM50	-	-
F4.0 / 4.5	-	OGNMDR50	-
F5.0	-	-	OGNMDR57

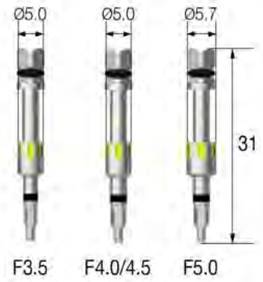


OneGuide KIT Surgical Instruments

Fixture Driver

- It is used by tightening to the wrench for the adjustment of the final placement
- Form a yellow groove to align the abutment hex direction
- Match the groove of OneGuide with the groove of driver
- C = Connection

C	Mini(ø5.0)	Regular(ø5.0)	Regular(ø5.7)
F3.5	OGFDM50	-	-
F4.0 / 4.5	-	OGFDR50	-
F5.0	-	-	OGFDR57



Anchor Screw

- It is used to fix OneGuide firmly
- Selectable at the planning stage

QGAS18



Anchor Drill

- Used for drilling before using anchor screw

QGATD13



Anchor Driver

- Used by tightening to anchor screw

ASMDS



NoMount Driver for SS

- Used for SSIII NoMount fixture placement
- It is recommended that 80% of the planned fixture depth be placed
- P = Platform

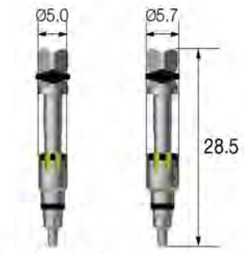
P	Regular(ø5.0)	Regular(ø5.7)
F3.5 / 4.0 / 4.5	OGNMDR50S	-
F5.0	-	OGNMDR57S



Fixture Driver for SS

- It is used by tightening to the wrench for the adjustment of the final placement
- SSIII G/H 2.8 fixture is implanted to the bottom of the driver's marking line
- Form a yellow groove to align the abutment hex direction
- Match the groove of OneGuide with the groove of driver
- P = Platform

P	Regular(ø5.0)	Regular(ø5.7)
F3.5 / 4.0 / 4.5	OGFDR50S	-
F5.0	-	OGFDR57S

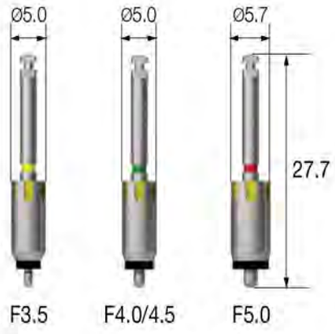


OneGuide KIT Surgical Instruments

NoMount Driver for US

- Used for USIII NoMount fixture placement
- It is recommended that 80% of the planned fixture depth be placed
- P = Platform

P	Mini(ø5.0)	Regular(ø5.0)	Wide(ø5.7)
F3.5	OGNMDM50U	-	-
F4.0 / 4.5	-	OGNMDR50U	-
F5.0	-	-	OGNMDW57U



Fixture Driver for US

- It is used by tightening to the wrench for the adjustment of the final placement
- Form a yellow groove to align the abutment hex direction
- Match the groove of OneGuide with the groove of driver
- P = Platform

P	Mini(ø5.0)	Regular(ø5.0)	Wide(ø5.7)
F3.5	OGFDM50U	-	-
F4.0 / 4.5	-	OGFDR50U	-
F5.0	-	-	OGFDW57U



OneGuide Metal Sleeve

- Used for protection of inner surface of OneGuide template and implant surface
- The sleeve is connected to jig after using a dedicated reamer and inserted to the OneGuide hole
- Can be purchased as a connected type for initial ordering of OneGuide template
- 3 types each by height according to OneGuide hole size, 9 types in total
- Sold as an individual item
- 1set = 10ea



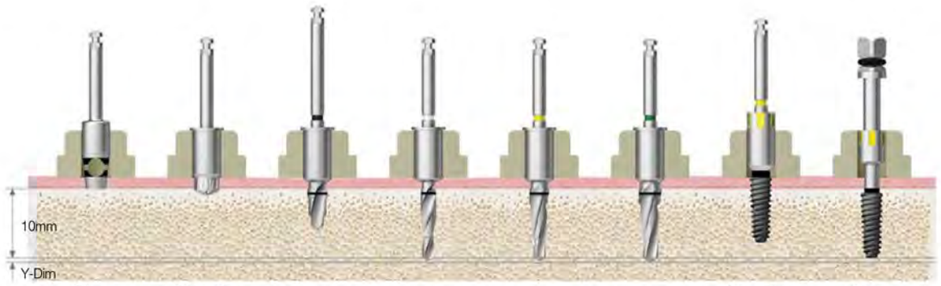
	Narrow Hole (ø3.6)	Regular Hole (ø5.1)	Wide Hole (ø5.8)
3.5mm	OGSCN35S	OGSCR35S	OGSCW35S
5.0mm	OGSCN50S	OGSCR50S	OGSCW50S
7.0mm	OGSCN70S	OGSCR70S	OGSCW70S

Drilling Sequence **OneGuide Drill**

TSIII | SSIII | USIII

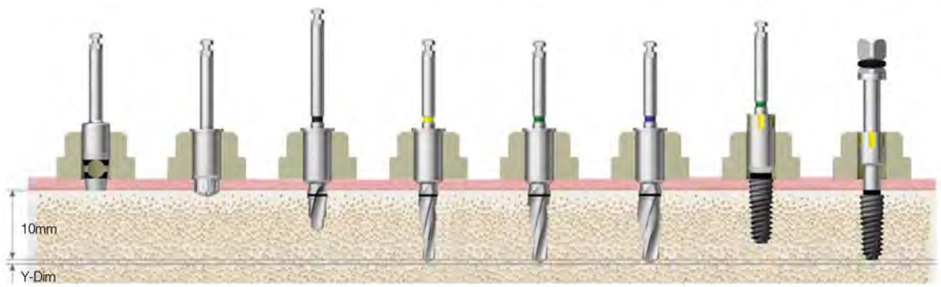
(Length : 10mm)

ø3.5



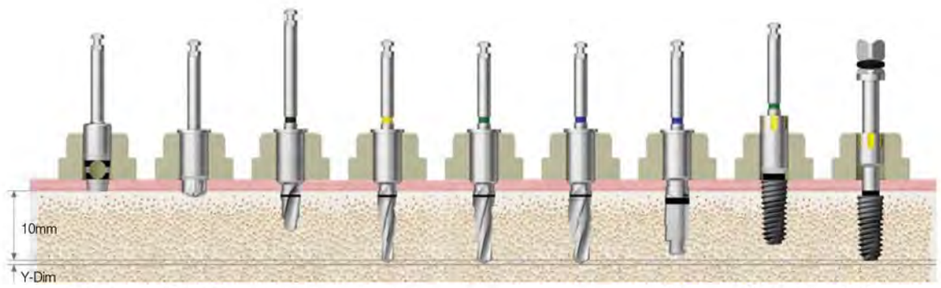
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	ø2.2 Drill	F3.5 Drill	F4.0 Drill	Nomount Driver	Fixture Driver
Soft	▶	(▶)	(F3.5 Soft)▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶		▶			
Hard	▶	(▶)	▶		▶	▶		

ø4.0



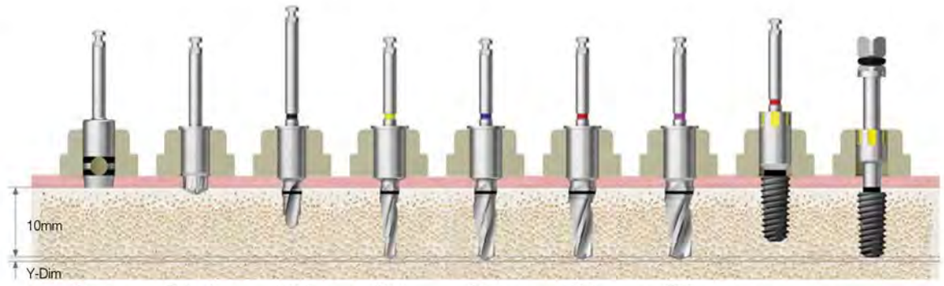
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	Nomount Driver	Fixture Driver
Soft	▶	(▶)	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶	▶			
Hard	▶	(▶)	▶	▶		▶		

ø4.5



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	F4.5 Cortical	Nomount Driver	Fixture Driver
Soft	▶	(▶)	▶	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶		▶			
Hard	▶	(▶)	▶	▶		▶	▶		

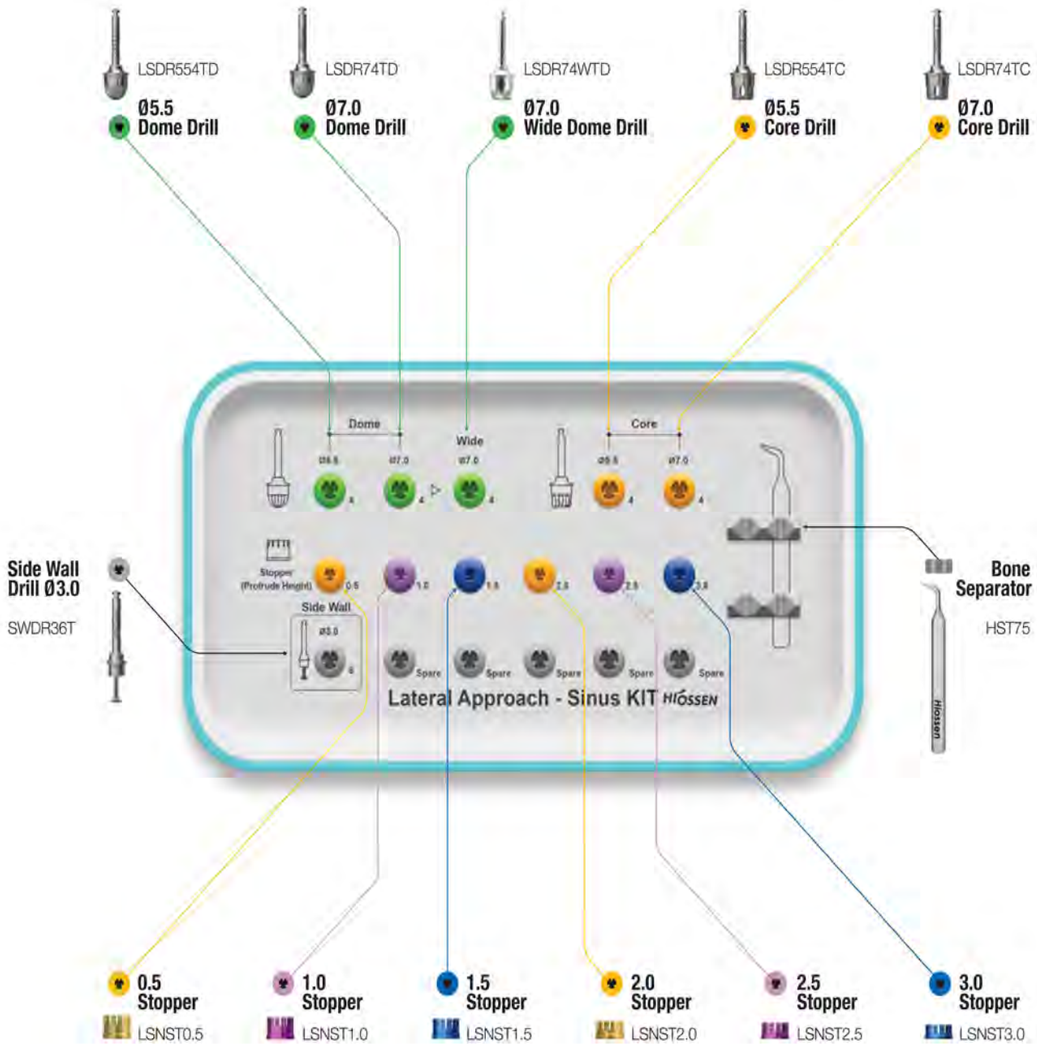
ø5.0



Bone Quality	Tissue Punch	Flattening Drill (W)	Initial Drill (W)	F3.5 Drill (W)	F4.5 Drill (W)	F5.0 Drill (W)	F5.5 Drill (W)		
Soft	▶	(▶)	▶	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶		▶			
Hard	▶	(▶)	▶	▶		▶	▶		

LAS KIT (HLRSNK)

- Lateral Approach - Sinus KIT (LAS KIT) : optimized KIT for lateral approach during maxillary sinus surgery
- Dome drills and core drills safely form a lateral window; available sizes Ø5.5 & 7.0
- Stoppers attach to LAS KIT for safety and form a lateral window without membrane perforation



LAS KIT Surgical Instruments

Dome Drill

- Forms a bone window, at the same time collects autogenous bone
- Excellent penetration due to the macro and micro cutting blade combination
- Stopper safely controls the penetration depth
- Recommended speed : 1,200~1,500rpm

※ Excessive drilling may cause damage to the membrane

L	D	Ø5.5	Ø7.0	Wide Ø7.0
25		LSDR554TD	LSDR74TD	LSDR74WTD



Core Drill

- Forms a bone window and generates a bone lid
- Based on the CAS drill design, excellent cutting ability and no membrane damage
- Recommended speed : 1,200~1,500rpm

※ Excessive drilling may cause damage to the membrane

L	D	Ø5.5	Ø7.0
25		LSDR554TC	LSDR74TC



Side Wall Drill

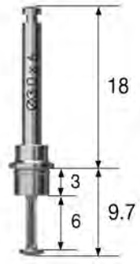
- Enlarges the bone window after using the dome drill
- Cut using the blade 1mm above the bottom of the drill
- Recommended speed : 1,500rpm

SWDR36T

Height of side cutting blade (mm)	1.0	2.0	3.0	4.0	5.0
CAS KIT stopper (mm)	8.0	9.0	10	11	12
Side wall drill + CAS KIT stopper					



※ Stopper safely controls the penetration depth



LAS KIT Surgical Instruments

Bone Separator

- Removes the bone lid inside the core drill



HST75

Stopper

- Laser marked numbers indicate the remaining tool's(drill, instruments, etc.) length when stopper is fastened
- Color-coded by length
- Drill and stopper recommended number of usage : 50 times

L	0.5	1.0	1.5	2.0	2.5	3.0
						
	LSNST0.5	LSNST1.0	LSNST1.5	LSNST2.0	LSNST2.5	LSNST3.0
Color	Yellow	Purple	Blue	Yellow	Purple	Blue

CAS KIT (HCRSNK)

For TSII / III SSII / III USII / III

Top panel components

Hydraulic Membrane Lifter Tube
SNMT



Lower panel components

Bone Carrier Head
SNBCH30

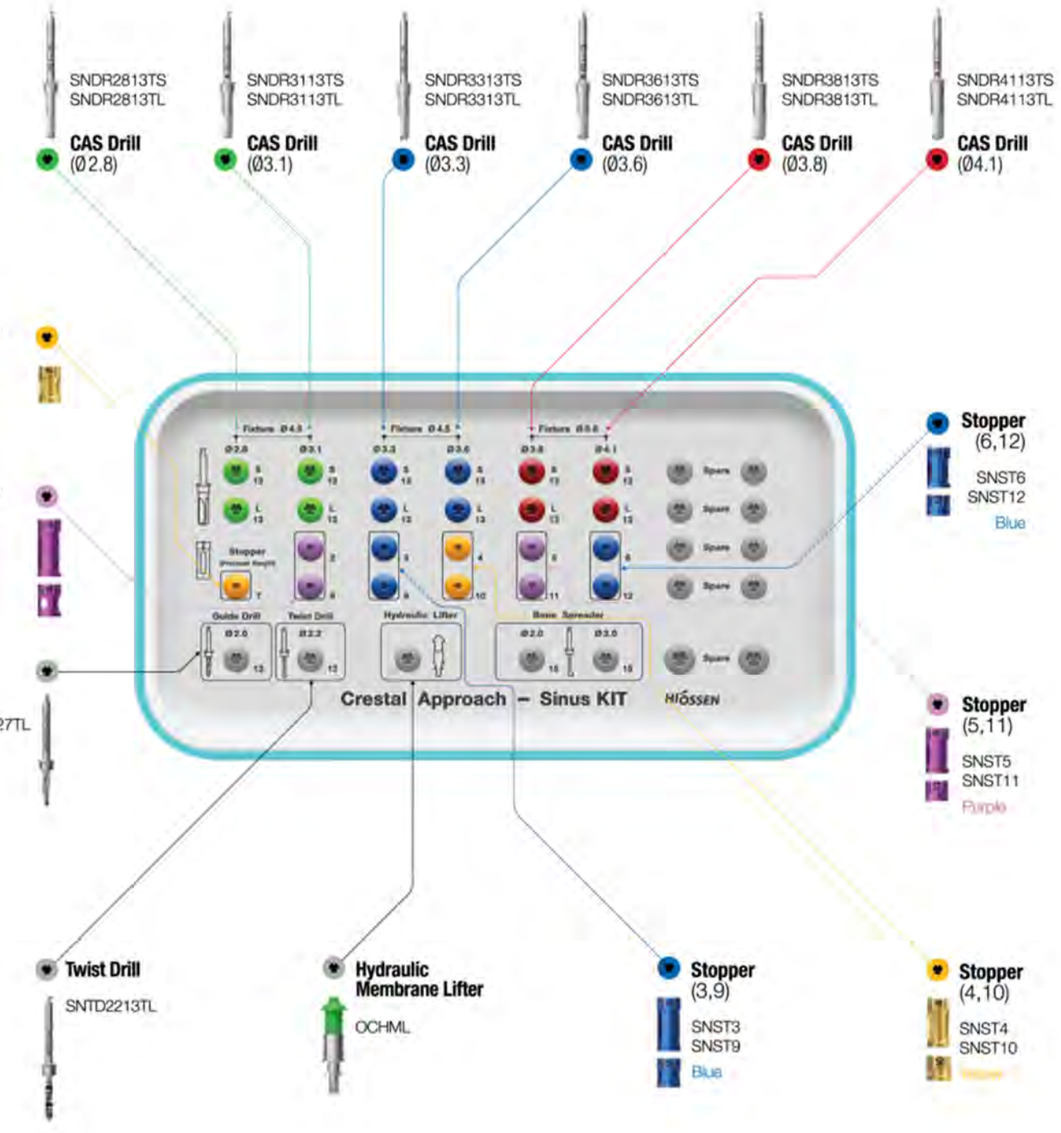


Bone Carrier
SNBCS35



Bone Condenser
SNBC1114

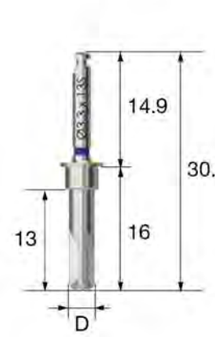


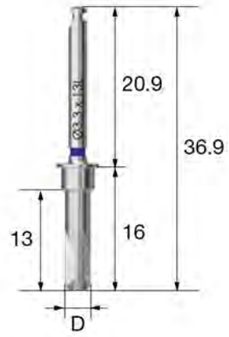


CAS KIT Surgical Instruments

CAS Drill

- Specailized drill designed to penetrate the sinus floor without damaging the schneiderian membrane by forming a concial bone lid
- Four blade body drills well at both high and low speeds and is capable of collecting autogenous bone at low speeds
- Use with stoppers for safe and controlled penetration
- Final drill should be based on the bone quality, regardless of the fixture type (straight or tapered)
- Recommended speed : 400~800rpm (first time : 400rpm)





L / D	Ø2.8	Ø3.1	Ø3.3	Ø3.6	Ø3.8	Ø4.1
Short	SNDR2813TS	SNDR3113TS	SNDR3313TS	SNDR3613TS	SNDR3813TS	SNDR4113TS
Long	SNDR2813TL	SNDR3113TL	SNDR3313TL	SNDR3613TL	SNDR3813TL	SNDR4113TL

Guide Drill

- Marks the fixture's insertion site
- Side cutting blades trim the extraction socket sidewalls
- Marker 2mm from the tip

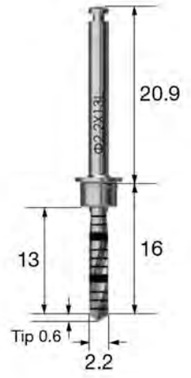
D	Ø2.0 / 2.7
	SNGD2027TL



Ø2.2 Twist Drill

- Recommend under-drilling by 1mm less than the bone's thickness
- Use with stoppers for safe and controlled drilling
- The tip measures an additional 0.6mm

D	Ø2.2
	SNTD2213TL

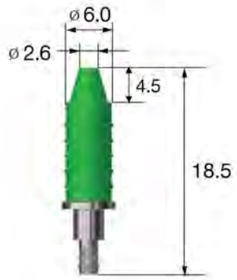


CAS KIT Surgical Instruments

Hydraulic Membrane Lifter Set

- Hydraulic pressure is used to separate and lift the sinus membrane
- Securly fits ø2.8~ø4.1 CAS drilled osteotomies

D	Ø2.6	6.0
	SNMLS	



Stopper

- Laser marked numbers indicate the remaining tool's (drill, instruments, etc.) length
- Color-coded by length
- Drill and stopper recommended number of usage is 50 times

L	2	3	4	5	6	7	8	9	10	11	12
	SNST2	SNST3	SNST4	SNST5	SNST6	SNST7	SNST8	SNST9	SNST10	SNST11	SNST12
Color	Purple	Blue	Yellow	Purple	Blue	Yellow	Purple	Blue	Yellow	Purple	Blue

Bone Carrier

- Handle for the bone carrier head
- Connect the bone carrier head and tighten at the opposite end
- Connects both heads (SNBCH30 or SNBCH35)

SNBCS35



Bone Carrier Head

- Cone shaped with an extended tip that reaches the sinus cavity and prevents bone material from spilling out
- SNBCH30 for ø3.1/3.3 CAS drilled osteotomy
- SNBCH35 for ø3.6/3.8/4.1 CAS drilled osteotomy
- Fill the reservior with bone material (up to the marker), with the bone condenser shuttle the material in small quantities into the sinus. Repeat the process as necessary.

D	Ø3.1	Ø3.6
	SNBCH30	SNBCH35



Bone Condenser

- Safely shuttles bone material through the bone carrier head into the sinus cavity
- SNBCH30 : use ø1.1 / SNBCH35 : use ø1.4

D	Ø1.1	1.4
	SNBC1114	



Hydraulic Membrane Lifter Tube

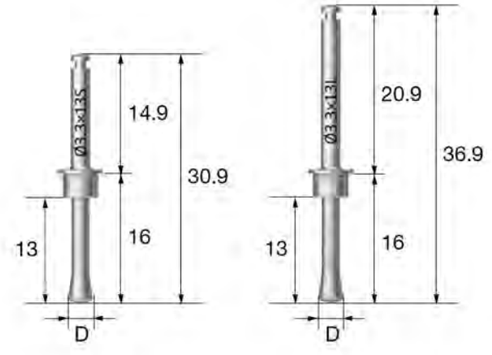
- Tubing connects to the hydraulic membrane lifter and salin filled syringe

SNMT



Membrane Lifter

- Round shape, no cutting edge and safe membrane lift
- After the CAS drill is used, the membrane was lifted and the lifter diameter was selected according to the CAS drill diameter (head diameter : CAS drill diameter -0.2mm)
- Using CAS stopper for depth adjustment
- Recommended speed : 400~800rpm (for first user : 400rpm)
- Be sure to spray water when using



L / D	Ø2.6	Ø2.9	Ø3.1	Ø3.4	Ø3.6	Ø3.9
Short	SNML2813TS	SNML3113TS	SNML3313TS	SNML3613TS	SNML3813TS	SNML4113TS
Long	SNML2813TL	SNML3113TL	SNML3313TL	SNML3613TL	SNML3813TL	SNML4113TL

CAS KIT Surgical Instruments

Depth Gauge



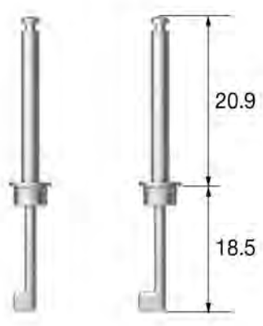
- Measures the thickness of the residual bone and checks to see if the sinus is properly separated from the floor

SNDG

Bone Spreader

- A tool that spreads a filled bone by using engine
- Used with stopper
- Recommended speed : 30rpm or less (low speed mode)

D	Ø2.0	Ø3.0
	SNBS2015T	SNBS3015T



Y-Connector



- Y-type connecting tool capable of simultaneous water pressure elevation in two drilling holes

SNYCT

OneCAS KIT (OOCK) RENEWAL 2020

Bottom panel components

Bone Carrier Head
OCBCH32, OCBCH37W



Applicable Products TSII / III | KSIII | SSII / III | USII / III

Top panel components

Depth Gauge
OCDG



Depth Gauge (W)
OCDGW



Bone Carrier
OCBCS30

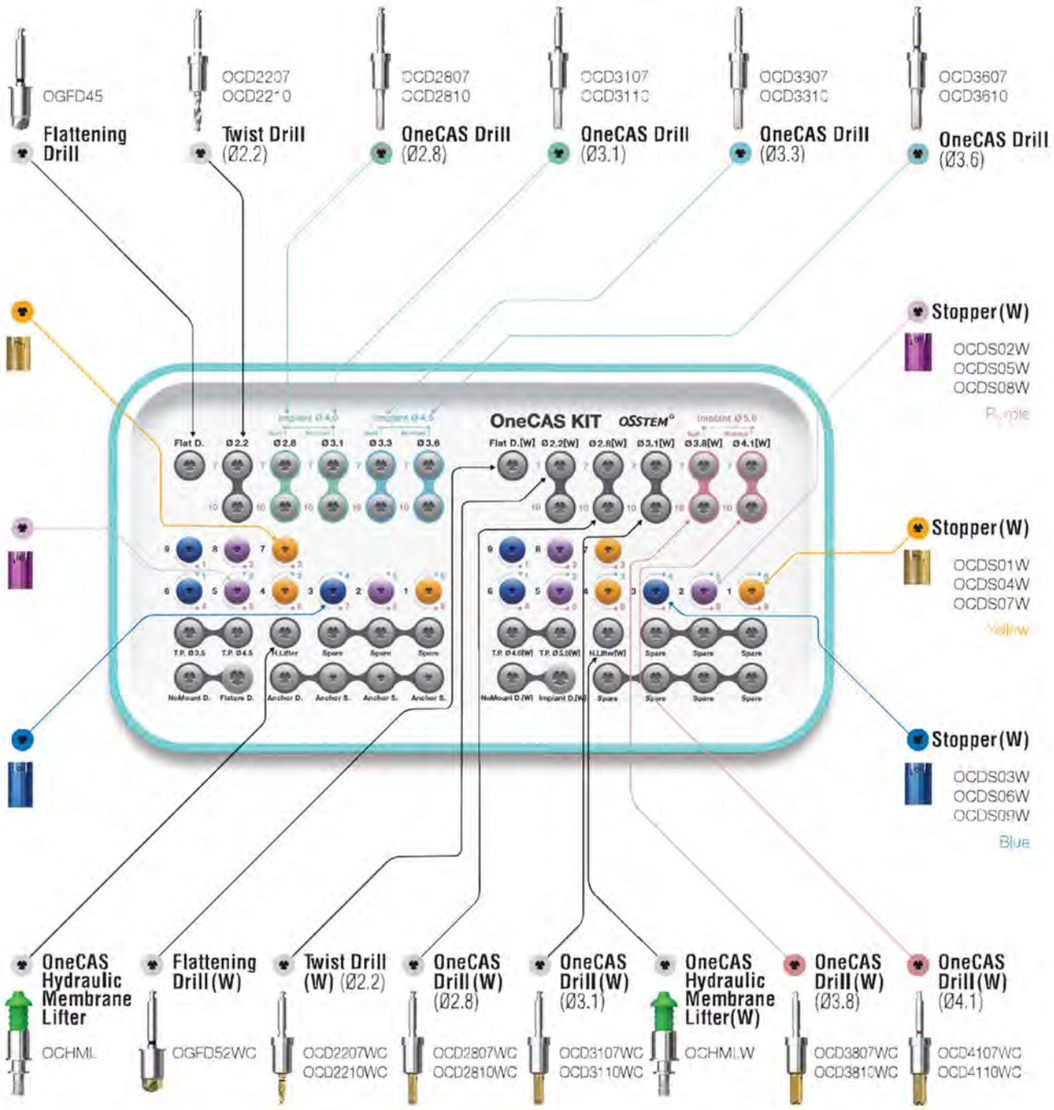


Bone Condenser
SNBC1114



Hydraulic Membrane Lifter Tube
SNMT





OneCAS KIT Surgical Instruments

OneCAS Twist Drill (Ø2.2)



- Drilling 1mm under the depth to sinus inferior border is recommended
- Used with a stopper for safe sinus lift
- 1mm shorter than a normal Twist Drill
- Recommended speed : 400~1,200rpm

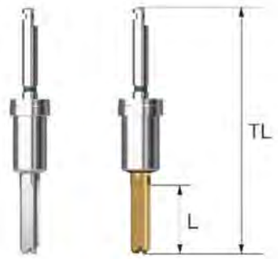
Regular Hole (Ø5.1)

L	TL	Ø2.2
7	33.2	OCD2207
10	36.2	OCD2210

Wide Hole (Ø5.8)

L	TL	Ø2.2
7	33.2	OCD2207WC
10	36.2	OCD2210WC

OneCAS Drill



- Used with a guide of OneGuide system
- Safe lifting of the membrane for maxillary sinus procedure
- Used at low speed for autogenous bone collection
- Used with a stopper for safe sinus lift
- Recommended speed : 800rpm
- Four types of wide hole (Ø3.3, Ø3.6) drills are sold as an individual item (OCD3307WC, OCD3310WC, OCD3607WC, OCD3610WC)

Regular Hole (Ø5.1)

L	TL	Ø2.8	Ø3.1	Ø3.3	Ø3.6
7	33.6	OCD2807	OCD3107	OCD3307	OCD3607
10	36.6	OCD2810	OCD3110	OCD3310	OCD3610

Wide Hole (Ø5.8)

L	TL	Ø2.8 (W)	Ø3.1 (W)	Ø3.3 (W)	Ø3.6 (W)	Ø3.8 (W)	Ø4.1 (W)
7	33.6	OCD2807WC	OCD3107WC	OCD3307WC	OCD3607WC	OCD3807WC	OCD4107WC
10	36.6	OCD2810WC	OCD3110WC	OCD3310WC	OCD3610WC	OCD3810WC	OCD4110WC

OneCAS KIT Surgical Instruments

OneCAS Stopper

- Number marking on the stopper indicates the stopping distance for drilling or tool assembly
- In the mid panel of the KIT, protruding length marked in blue for connecting 7mm drill, and in red for 10mm drill
- Color coding applied by length
- Recommended use cycle: 50 times

Regular Hole (Ø5.1)



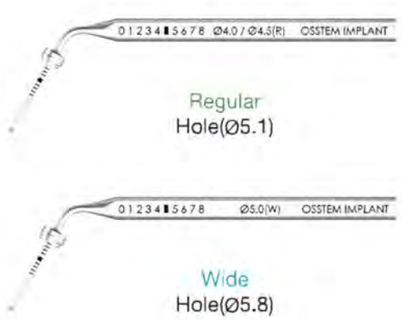
Wide Hole (Ø5.8)



Depth Gauge

- Checking the internal lifting of sinus
- Measuring residual bone depth
- Used with a stopper for safe sinus lift
- Marking line of the same depth as 10mm drill

Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
OCDG	OCDGW



Hydraulic Membrane Lifter NEW 2024

- Hydraulic sinus membrane lifter exclusively for OneCAS KIT
- Used by placing the body until the marking line meets the upper surface of OneGuide hole
- Winged design with optimized sealing for flapless procedure

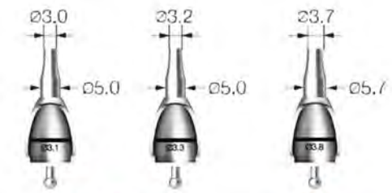
Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
OCHVL	OCHMLW



Bone Carrier Head NEW 2024

- Maxillary sinus filling instrument exclusively for OneCAS KIT
- Used by placing into the OneGuide hole to the end and fixing
- OCBCH30 : Used after drilling with OneCAS Drill Ø3.1
- OCBCH32 : Used after drilling with OneCAS Drill Ø3.3/Ø3.6
- OCBCH37W : Used after drilling with OneCAS Drill Ø3.8/Ø4.1
- Used repeatedly by filling bone material in the back of the marking line of the head and taking little by little with a bone condenser to completely fill the inside of the maxillary sinus

Regular Hole (Ø5.1)		Wide Hole (Ø5.8)
OCBCH30	OCBCH32	OCBCH37W



Bone Carrier NEW 2024

- Maxillary sinus bone filling instrument exclusively for OneCAS KIT
- Mounting the head by fastening the handle in the back of the body
- Replaceable head for use

OCBCS30



Drilling Sequence **OneCAS KIT**

Residual bone height 3mm Ø4.0



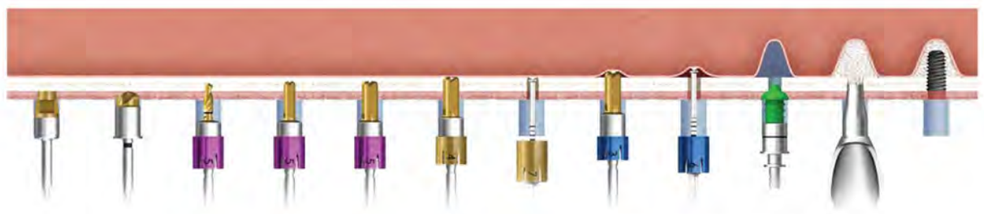
Bone Quality	Tissue Punch	Flattening Drill	Twist Drll (Ø2.2x7)	OneCAS Drill	OneCAS Drill	Depth Gauge	OneCAS Drill	Depth Gauge	Hydraulic Lifter	Bone Carrier	Implant
Soft	▶	▶	▶	Ø2.8x7	Ø2.8x7	▶	Ø2.8x7	▶	▶	▶	▶
Normal	▶	▶	▶	Ø3.1x7	Ø3.1x7	▶	Ø3.1x7	▶	▶	▶	▶
Stopper			5	5	4	7	3	6			

Residual bone height 3mm Ø4.5



Bone Quality	Tissue Punch	Flattening Drill	Twist Drll (Ø2.2x7)	OneCAS Drill	OneCAS Drill	OneCAS Drill	Depth Gauge	OneCAS Drill	Depth Gauge	Hydraulic Lifter	Bone Carrier	Implant
Soft	▶	▶	▶	Ø2.8x7	Ø3.3x7	Ø3.3x7	▶	Ø3.3x7	▶	▶	▶	▶
Normal	▶	▶	▶	Ø3.1x7	Ø3.6x7	Ø3.6x7	▶	Ø3.6x7	▶	▶	▶	▶
Stopper			5	5	5	4	7	3	6			

Residual bone height 3mm Ø5.0



Bone Quality	Tissue Punch(W)	Flattening Drill(W)	Twist Drll (Ø2.2x7)(W)	OneCAS Drill(W)	OneCAS Drill(W)	OneCAS Drill(W)	Depth Gauge(W)	OneCAS Drill(W)	Depth Gauge(W)	Hydraulic Lifter(W)	Bone Carrier(W)	Implant
Soft	▶	▶	▶	Ø2.8x7	Ø3.8x7	Ø3.8x7	▶	Ø3.8x7	▶	▶	▶	▶
Normal	▶	▶	▶	Ø3.1x7	Ø4.1x7	Ø4.1x7	▶	Ø4.1x7	▶	▶	▶	▶
Stopper (W)			5	5	5	4	7	3	6			

Residual bone height 8mm Ø4.0



Bone Quality	Tissue Punch	Flattening Drill	Twist Drll (Ø2.2x7)	OneCAS Drill	OneCAS Drill	Depth Gauge	OneCAS Drill	Depth Gauge	Hydraulic Lifter	Bone Carrier	Implant
Soft	▶	▶	▶	Ø2.8x7	Ø2.8x10	▶	Ø2.8x10	▶	▶	▶	▶
Normal	▶	▶	▶	Ø3.1x7	Ø3.1x10	▶	Ø3.1x10	▶	▶	▶	▶
Stopper					2	2	1	-			

Residual bone height 8mm Ø4.5



Bone Quality	Tissue Punch	Flattening Drill	Twist Drll (Ø2.2x7)	OneCAS Drill	OneCAS Drill	OneCAS Drill	Depth Gauge	OneCAS Drill	Depth Gauge	Hydraulic Lifter	Bone Carrier	Implant
Soft	▶	▶	▶	Ø2.8x7	Ø3.3x7	Ø3.3x10	▶	Ø3.3x10	▶	▶	▶	▶
Normal	▶	▶	▶	Ø3.1x7	Ø3.6x7	Ø3.6x10	▶	Ø3.6x10	▶	▶	▶	▶
Stopper						2	2	1	1			

Residual bone height 8mm Ø5.0



Bone Quality	Tissue Punch(W)	Flattening Drill(W)	Twist Drll (Ø2.2x7)(W)	OneCAS Drill(W)	OneCAS Drill(W)	OneCAS Drill(W)	Depth Gauge(W)	OneCAS Drill(W)	Depth Gauge(W)	Hydraulic Lifter(W)	Bone Carrier(W)	Implant
Soft	▶	▶	▶	Ø2.8x7	Ø3.8x7	Ø3.8x10	▶	Ø3.8x10	▶	▶	▶	▶
Normal	▶	▶	▶	Ø3.1x7	Ø4.1x7	Ø4.1x10	▶	Ø4.1x10	▶	▶	▶	▶
Stopper (W)						2	2	1	1			

ESSET KIT (HESEK)

For TSII / III SSII / III USII / III

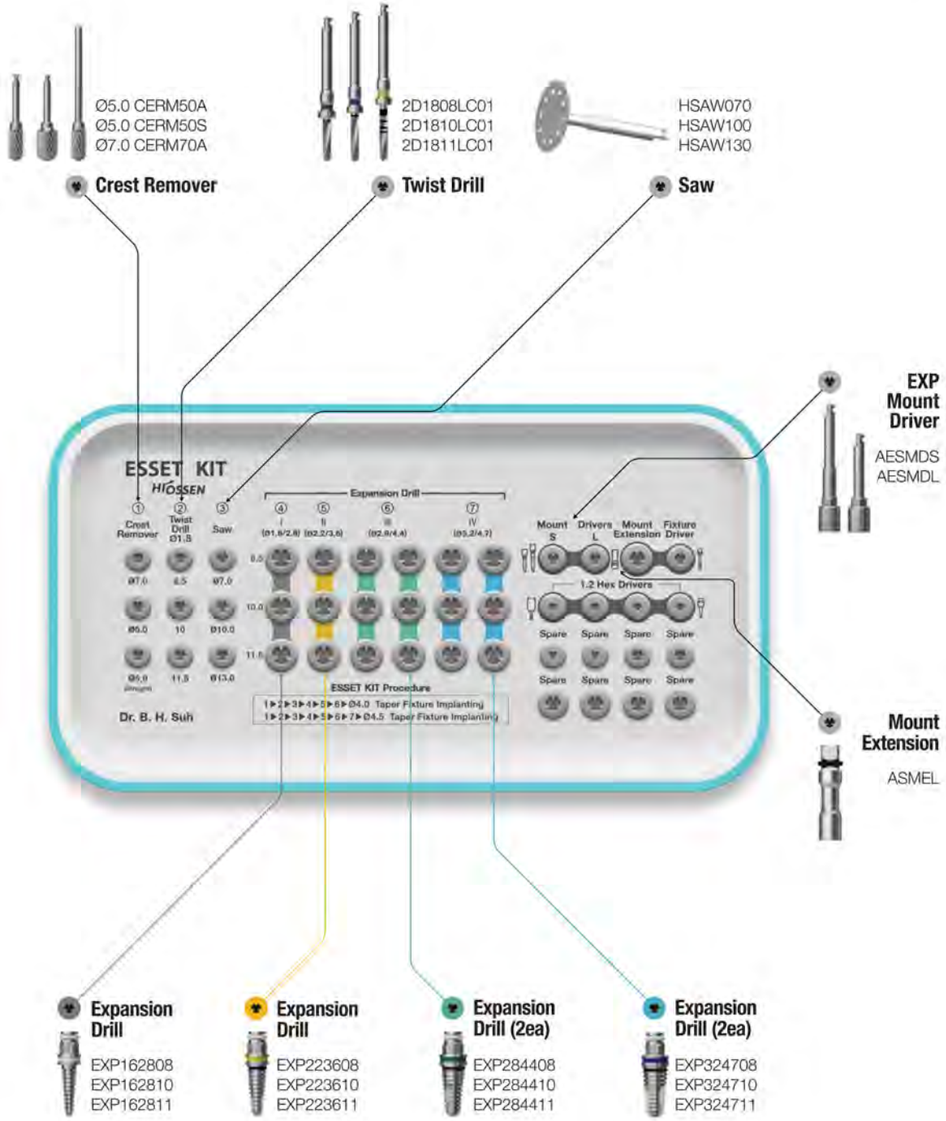
Lower panel components

Torque Wrench
TQWCB



Depth Gauge
ODG



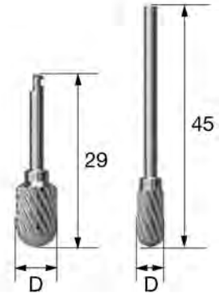


ESSET KIT Surgical Instruments

Crest Remover

- Grinds down narrow aveolar ridge, and creates an indentation for the fixture's insertion site
- Angled type recommended speed : 1,200~1,500rpm
- Straight type recommended speed : 15,000~30,000rpm

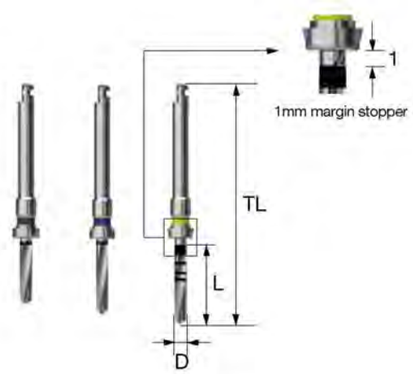
L	D	Ø5.0	Ø7.0
29		CERM50A	CERM70A
45		CERM50S	-



Twist Drill

- Marks the fixture's insertion site
- Slide on the stopper to control the depth
- Recommended speed : 1,200~1,500rpm

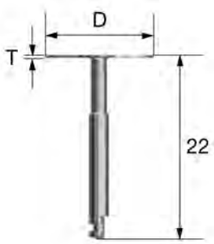
L	TL	D	Ø1.8
8.5	33		2D1808LC01
10	34.5		2D1810LC01
11	36		2D1811LC01



Saw

- Saws narrow aveolar ridge
- Saw vertically first, then saw from the mesial to the distal
- Recommended speed : 1,200~1,500rpm
- Recommended number of use : 10 times
- T = Thickness

T	Ø7.0	Ø10.0	Ø13.0
0.3	HSAW070	HSAW100	HSAW130



ESSET KIT Surgical Instruments

Expansion Drill

- Expands narrow aveolar ridge
- Use the SET drills in numerical order based on the diameter of the fixture
  F4.0 : I → II → III / F4.5 : I → II → III → IV
- Recommended speed : 25~35rpm



L	Type	I	II	III	IV
	D1 / D2	Ø1.6 / 2.8	Ø2.2 / 3.6	Ø2.8 / 4.4	Ø3.2 / 4.7
8.5		EXP162808	EXP223608	EXP284408	EXP324708
10		EXP162810	EXP223610	EXP284410	EXP324710
11.5		EXP162811	EXP223611	EXP284411	EXP324711

Mount Extension

- Connect with SET drills for manual torque

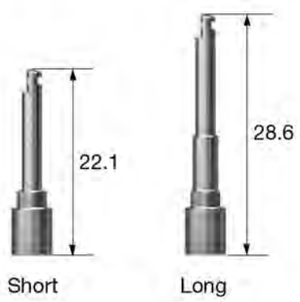
ASMEL



EXP Mount Driver

- In the process of inserting or removing the expansion drill into the alveolar bone, it is used to increase torque

L	
Short (L)	AESMDS
Long (L)	AESMDL



Saw Protector

- Saw cover prevents debris from ejecting outside the oral cavity and protects adjent soft tissue
- Cover can rotate 360° adding convenience during surgery
- Contra angle type (detachable saw cover)
  - **KaVo (CL 3-09, S201L), W&H (WS-75)**
- Straight type (integrated saw cover) - **KaVo (CL10)**

※ Use an appropriate saw

※ Cover and body need to be ordered separately



Contra angle type



Straight type

Type	D		Ø7.0	Ø10.0	Ø13.0	Ø15.0	Full Set
Kavo	Contra Angled	Cover	SP07AC	SP10AC	SP13AC	-	-
		Set	SP07A	SP10A	SP13A	-	SP071013A
	Straight	Saw	-	SAW10S	SAW13S	SAW15S	-
		Set	-	SP10S	SP13S	SP15S	SP101315S
W&H	Contra Angled	Cover	SP07ACW	SP10ACW	SP13ACW	-	-
		Set	SP07AW	SP10AW	SP13AW	-	SP071013W

Torque Wrench

- Use with mount extension and SET drills

TQWCB



Depth Gauge

- Releases a wedged SET drill due to over torquing and fir when the hand piece ceases because bit is stuck. Use with an open wrench

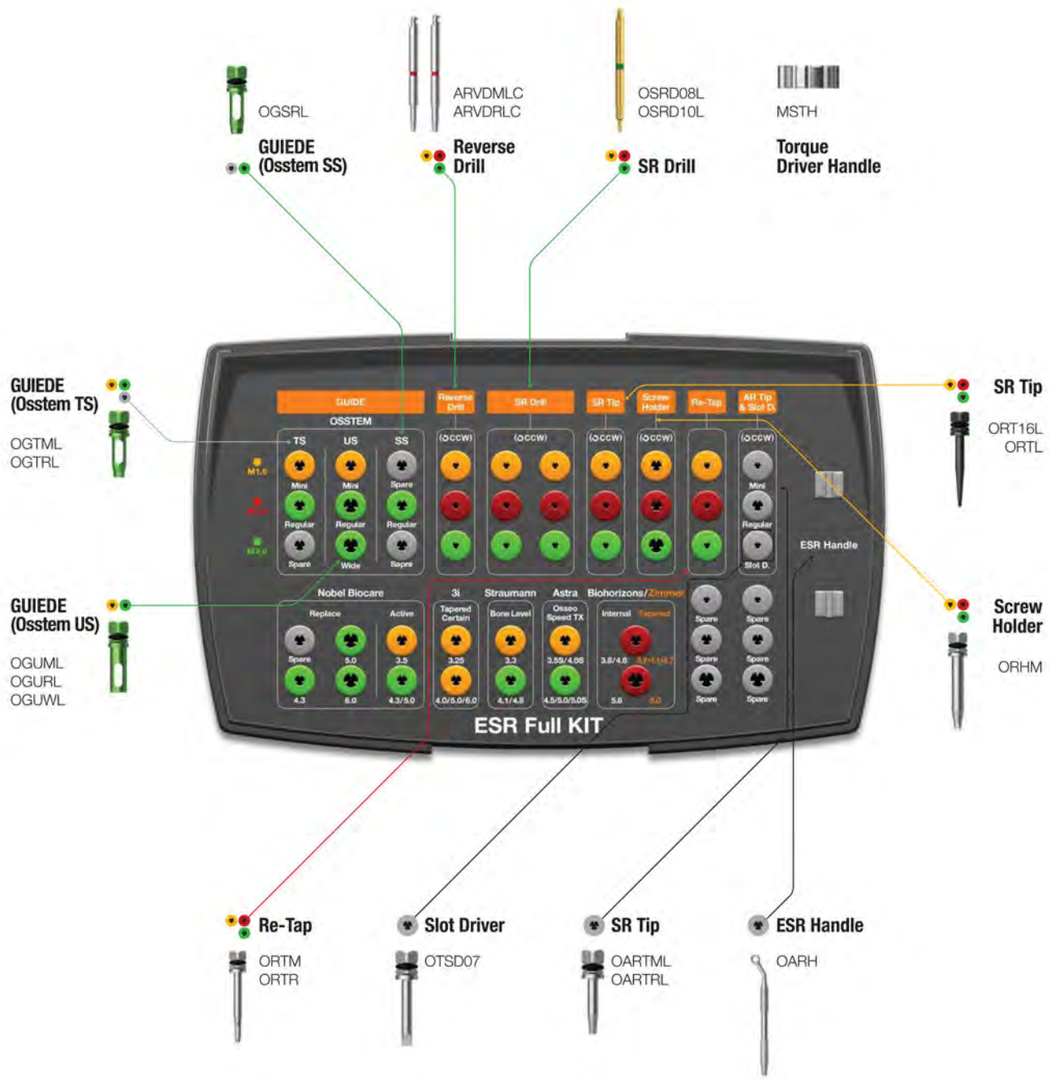
ODG



ESR Full KIT Easy Screw Removal Full KIT (OESRFK)

• It is a KIT that has the same components as ESR KIT and can be mounted on competitors' components

For Nobel Biocare Active/Replace / Straumann Bone Level / Astra Osseo Speed TX
3i Full OSSEOTITE Tapered Certain / Zimmer Tapered / Biohorizons Internal



ESR Full KIT Surgical Instruments

Items that are not included in the KIT

Guide

Nobel	Active	Replace	3i	Tapered Certain		Straumann	Bone Level	Roxolid SLActie
	OGNA01L	OGNR02L		OGIF01L			OGSB01L	OGSTROS
	OGNA02L	OGNR03L		OGIF02L			OGSB02L	OGSTROL
		OGNR04L						

Astra	Osseo Speed TX		Biohorizons	Internal	External	Zimmer	Tapered
	OGAO01L			OGZB01L	OGUBS		OGZB01L
	OGAO02L			OGZB02L	OGUBL		OGZB02L

SR Drill	SR Tip	Screw Holder	Re-Tap
OSRD09L	ORT18L	OSHR18L	ORTR18L

Guide

- It is fixed to the fixture to prevent shaking of SR drill and SR tip
- Use according to fixture type and diameter
  (6 overseas companies' internal and submerged type products)
- Select short or long depending on opposite teeth's distance
- ■ Common use
- C = Connection / F = Fixture / the number of use : 10 times

Osstem

C	Type	TS		SS		US	
		Short	Long	Short	Long	Short	Long
	Mini	OGTMS	OGTML	OGUMS	OGUML	OGUMS	OGUML
	Regular	OGTRS	OGTRL	OGSRS	OGSRL	OGURS	OGURL
	Wide	-	-	OGSRS	OGSRL	OGUWS	OGUWL

Nobel Biocare

F	Type	Active		Replace	
		Short	Long	Short	Long
Ø4.3		OGNA02S	OGNA02L	OGNR02S	OGNR02L
Ø5.0		OGNA02S	OGNA02L	OGNR03S	OGNR03L
Ø6.0		-	-	OGNR04S	OGNR04L

Nobel Biocare

F	Type	MkIII	
		Short	Long
Ø3.3		OGUMS	OGUML
Ø3.75		OGURS	OGURL
Ø4.0		OGURS	OGURL
Ø5.0		OGUWS	OGUWL

Straumann

F	Type	Bone Level	
		Short	Long
NC (3.3)		OGSB01S	OGSB01L
RC (4.1)		OGSB02S	OGSB02L
RC (4.8)		OGSB02S	OGSB02L

F	Type	Roxolid SLActive	
		Short	Long
RN (3.3)		OGSTROS	OGSTROL
RN (4.1)		OGSTROS	OGSTROL
RN (4.8)		OGSTROS	OGSTROL
WN (4.8)		OGSTROS	OGSTROL

Astra

F	Type	Osseo Speed TX	
		Short	Long
Small (3.5 S)		OGAO01S	OGAO01L
Small (4.0 S)		OGAO01S	OGAO01L
Large (4.5)		OGAO02S	OGAO02L
Large (5.0)		OGAO02S	OGAO02L
Large (5.0 S)		OGAO02S	OGAO02L

ESR Full KIT Surgical Instruments

Reverse Driver

- Removes fractured screws
- Select the propriate guide that matches the fixture
- Operate the driver in reverse, when the red marker appears above the guide, stop and disconnect the driver. Connect the screw holder to remove the screw.
- For hand mode / Rotate counterclock wise / Number of usages : 10 times
- F = Fixture

L \ F	Mini	Regular / Wide
Short	-	ORVDRS
Long	ORVDML	ORVDRL



Mini Regular/Wide

Re-tap

- Re-threads the internal connection of a fixture, if the screw does not properly engage and tightens
- Connects to a torque wrench or ratchet wrench to re-thread

Type	M1.6	M1.8	M2.0
	ORTM	ORTR18	ORTR



ESR Handle

- Tools to fix guide to fixture

OARH



Screw Removal Tip (SR Tip)

- Engage counterclock wise into the drilled hole made by the screw removal drill (SR drill) of a fractured screw, continue to rotate to remove screw
- Rotation direction : counterclock wise

L \ Type	M1.6	M1.8	M2.0
Short	ORT16S	ORT18S	ORTS
Long	ORT16L	ORT18L	ORTL



Screw Holder

- Grasps onto a protruding fracture screw and unscrews it
- Color-coded
- Rotation direction : counterclock wise

Type	M1.6	M1.8	M2.0
	OSHM	OSHR18	OSHR



Abutment Removal Tip (AR Tip)

- Removes the remaining part of a fractured abutment or mount in a fixture.
- Engage the tip into the fractured abutment counterclock wise. Using forceps, grasp the removal tip and rock back and forth until the factured abutment is freed.
- Mini : it can be used to remove a screw with a stripped hex
  - To remove the screw, engage the tip into the stripped hex and rotate counterclock wise

L \ Type	Mini	Regular
Short	OARTMS	OARTRS
Long	OARTML	OARTRL
Ex.Long	OARTMEL	OARTREL



Mini Regular

ESR Full KIT Surgical Instruments

Slot Driver

- Cut a slot on a stripped hex; healing abutment, cover screw, or abutment screw using a Ø0.8 bur to unscrew



OTSD07

Transfer Abutment Separate Tool

- Removes stuck or wedged non-hex transfer abutments
- Separate tool tip fits mini abutments; regular tools can also be used through the second groove
- After removing the abutment screw, insert the separate tool body into the abutment. Fasten the driver, securely joining the separate tool body and abutment. Remove the abutment. If this does not release abutment from the fixture, retighten with a ratchet wrench to the driver and try again.



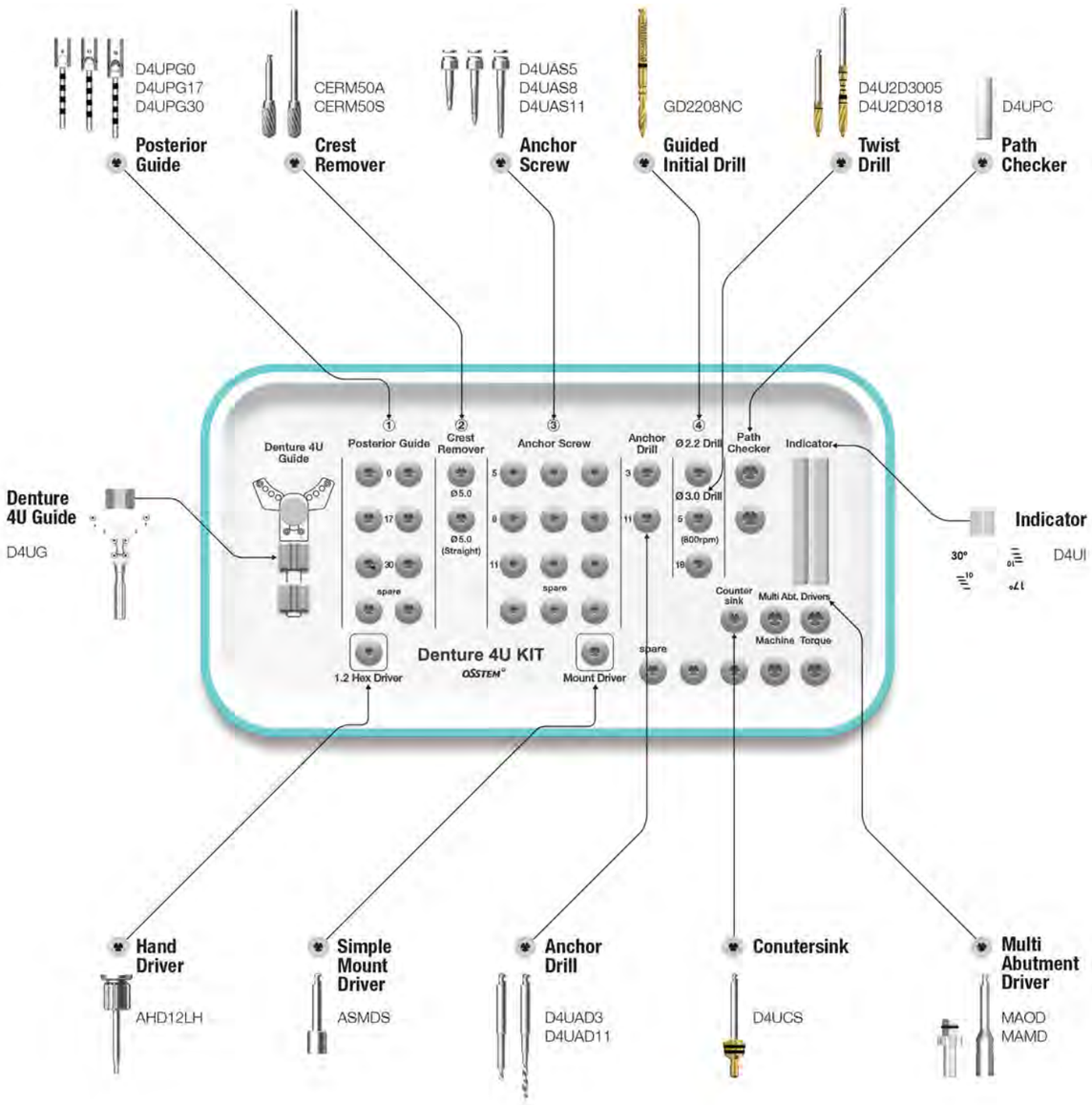
Driver Body

Driver	Body	Set
TASD	TASB	TAST

OSSTEM IMPLANT

Denture 4U KIT (OD4UK) NEW 2021

Applicable Products TSII / III USII / III



Denture 4U KIT Surgical Instruments

Denture 4U Guide



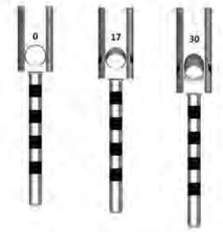
- Guide for stable and accurate initial and intermediate drilling for Denture 4U procedure
- Anterior guide : drilling positioning for Ø2.2 in anterior region (tooth number 2 and 3 positions marked)
- Posterior guide : drilling positioning function for Ø3.0 drill in posterior region

※ Used by assembling with the posterior guide of desired angle

- A removable handle for Denture 4U Guide

D4UG

Posterior Guide



- Used by assembling to the anterior guide prior to procedure

※ Assembled with the angle marking side shown

- Enables adjustment of the implant placement position in posterior region and buccolingual inclination
- Prior to procedure, selecting the angle of Posterior Guide through CT scans is recommended

※ Replaceable during procedure

- Drilling is performed by slowly entering the guide hole, referring to the marking line on the side of the posterior guide hole
- Drilling depth adjusted by drilling to the bottom of the marking line in the mesial direction
- Marking line spacing on the rod : 2mm

Degree	0°	17°	30°
	D4UPG0	D4UPG17	D4UPG30

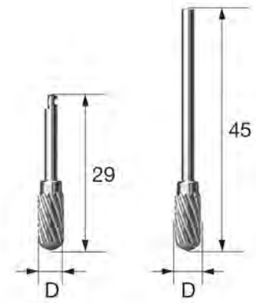


Bottom of the marking line →
Check mesial direction

Crest Remover

- Used for bone flattening for Denture 4U Guide procedure
- Marking the implant placement position after removing narrowed ridge horizontally
- Recommended drilling speed
  - Angled type : 1,200~1,500rpm
  - Straight type : 15,000~30,000rpm

L	D	Ø5.0
29		CERM50A
45		CERM50S



Denture 4U KIT Surgical Instruments

Anchor Screw

- Used for stable fixing of the bone in place by connection to the fixed center hole of the Denture 4U Guide and the fixed hole of Posterior Guide
- Fixing the Anchor Screw with the Mount Driver; if the Anchor Screw is not fixed well at this time, the Anchor Drill should be used first for drilling
  ※ Anchor drill used first for normal/hard bone
- Selecting an Anchor Screw of appropriate length according to the degree of posterior segment retraction
- Engine is stopped to prevent Anchor Screw from spinning with no traction when in contact with the guide



L	D	Ø1.65
5		D4UAS5
8		D4UAS8
11		D4UAS11

Anchor Drill

- Used to form a hole in normal/hard bone prior to tightening an Anchor Screw
- Drilling with a 3mm drill is recommended prior to additional drilling with an 11mm drill



L	D	Ø1.65
3		D4UAD3
11		D4UAD11

Guided Initial Drill

- Used for drilling in anterior region : Ø2.2 drilling into the anterior guide hole of the Denture 4U Guide
- Drilling is performed by selecting a desired drilling hole of the Anterior Guide
- Recommended drilling speed: 800rpm



L	D	Ø2.2
5		GD2208NC

Twist Drill

- Drilling is performed by slowly entering the guide hole, with the angle matched as much as possible, referring to the marking line on the side of the Posterior Guide hole
- Drilling depth adjusted by drilling to the bottom marking line in the mesial direction
- Marking line spacing of the rod: 2mm
- Recommended drilling speed: 800rpm



L	D	Ø3.0
5		D4U2D3005
18		D4U2D3018

Conutersink

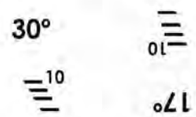
- Drill for using the Taper Drill after removing the Denture 4U Guide
  ※ For removing bone interference from the stopper of the Taper Drill
- Removing bone interference upon assembling to the Multi Angled Abutment



D4UCS

Indicator

- Checking the location of the mental foramen, and the placement direction and length of the implant beforehand to ensure the stability in the procedure
  ※ For checking the location of the mental foramen by opening a flap completely



D4UI

Path Checker

- Checking the location of the mental foramen by predicting the extended line of the path checker through panoramic or CT scan
  ※ For checking the location of the mental foramen without fully opening a flap



D4UPC

Denture 4U KIT Surgical Instruments

Simple Mount Driver

- Used for placing an Anchor Screw for stable fixing of the Denture 4U Guide in place



L	
Short	ASMDS

Multi Abutment Machine Driver

- A dedicated Machine Driver for Multi Abutment



MAMD

Multi Abutment Outer Driver

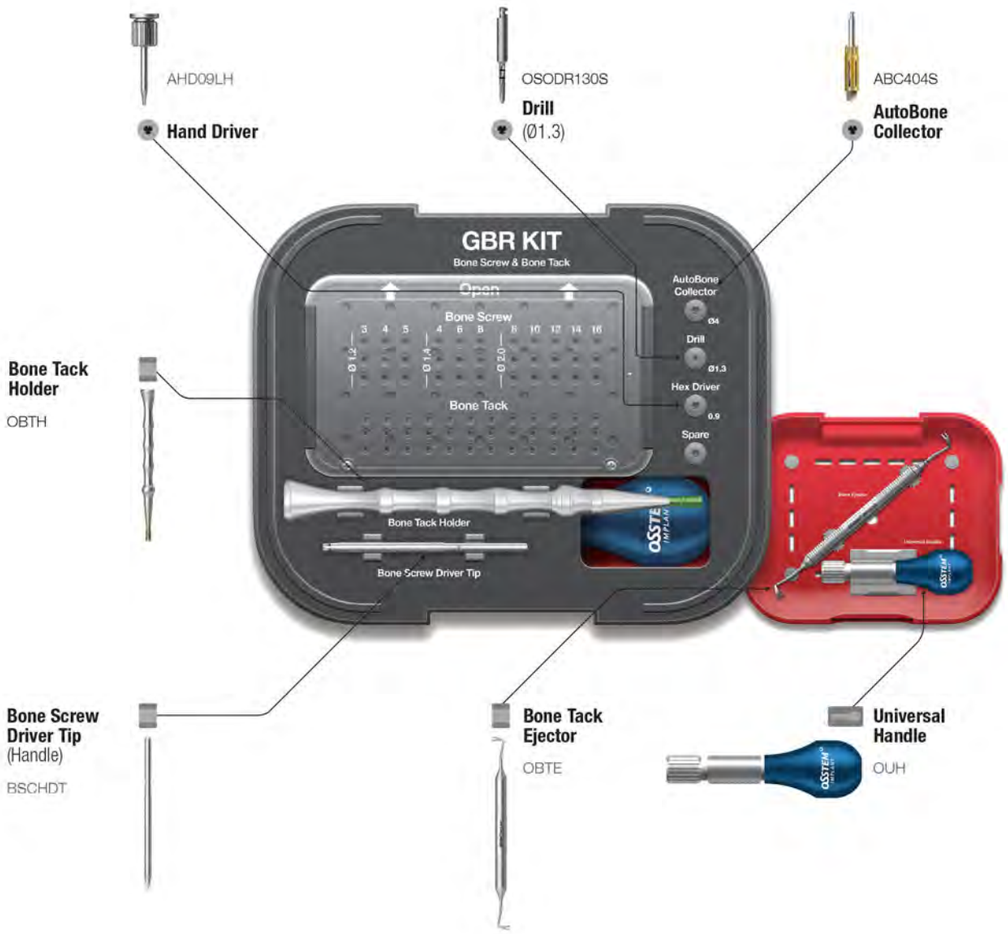
- A dedicated Torque Driver for Multi Abutment



MAOD

GBR KIT (ONGBRK) RENEWAL 2021.10

• KIT composed of all necessary tools for GBR procedure including bone screw and bone tack



GBR KIT Surgical Instruments - Bone Screw
For Bone Screw Only

Bone Screw Driver Tip (Handle)



• Used by connecting to Universal Handle
• Tighten the bone screw upright fully before use

Cross
BSCHDT

Universal Handle



• Used by connecting to a bone screw driver tip (handle)

OUH

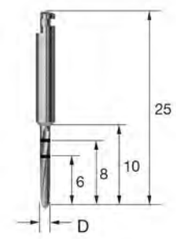
Bone Screw Driver (Engine)



• Used by connecting with an engine
• Tighten the bone screw upright fully before use

Cross
BSCMD

Ø1.3 Drill



• Used with a Ø 2.0 bone screw
• Recommended drilling speed : 800rpm

D	
Ø1.3	OSODR130S

Xenograft

A-Oss

- DBB (Deproteinized Bovine Bone)
- Promotion of osteo-conduction
- Excellent volume maintenance
- Excellent biocompatibility
- Raw material: Australia
- Manufacturer: Osstem Implant Co., Ltd., South Korea
- P = Particle Size

g	P	0.25~1.0mm
0.25 (0.5cc)		BAS02
0.5 (1.0cc)		BAS05



NEW 2021

A-Oss PEN (Syringe Type)

- Syringe-type A-Oss
- Excellent osteo-conduction and volume maintenance of A-Oss
- Syringe packaging allows a high level of user convenience
- One-hand manipulation possible
- Manufacturer: Osstem Implant Co., Ltd., South Korea

CC	Ø5.4	0.25~1.0mm
0.5		BAS**05SG54**



Resorbable membrane Collagen

NEW 2021.08

OssMem_Soft

- Bovine collagen
- Use of qualified New Zealand bovine collagen
- Membrane with excellent blood wettability
- No change in performance even after hydration
- Membrane for reversible use
- Safe from crosslinking agent
- Manufacturer: Osstem Implant Co., Ltd., South Korea
- T = Thickness

mm	T	0.35mm
15×20		OCMS**1520**
20×30		OCMS**2030**
30×40		OCMS**3040**



Instructions for Use (AUG. 2017, Ver. 5.5)

Description of Osstem implant system

Osstem Implant is a brand for implant materials for dental practices, and the fixture is made mainly of titanium. The abutment, prosthetic components and tools for the Osstem Implant system are compatible with the Osstem Implant fixture only. Using this product in combination with products from other manufacturers may cause various problems including loosening and fracture due to incomplete locking and compatibility issues. Refer to the manual or the catalogue or our website (www.osstem.com) for details. See the product label for the product code, specifications, manufacturing date, and expiration date.

Sterility

The fixture, cover screw, and healing abutment are cleansed and sterilized with gamma radiation. This product is a disposable sterilized medical device intended for one-time use. In order to prevent contamination or infection of the product or operated site, the product must be used using a sterilized instrument in a sterilized environment. Damaged products, products with open packaging, or expired products must be discarded due to potential risks of contamination, infection, or osseointegration failure. Re-sterilization or re-use of the product may result in infection, osseointegration failure, or implant damage due to reduced accuracy.

Storage condition

Keep the product in a dry place at room temperature(1~30℃). Keep away from direct sunlight.

General precautions

The surgical technology of dental implant involves an expert, complex procedure. Formal training is required to perform implant surgery. Careful considerations must be made before the operation in case of bone disorders (osteoporosis, osteomalacia) or metabolic disorders of the bone.

Precautions

Determine the local anatomy and suitability of the available bone for implant placement. Prepare the implant considering the expected situations and cautions. Excessive occlusal load may cause loosening or fracture of an implant. In order to avoid this condition, the implant must be placed in accurate location and direction considering the relationship between the implant and opposing dentition. Visual inspection as well as panoramic and periapical radiographs are essential to determine anatomical landmarks, occlusal conditions, periodontal status, and the adequacy of the bone. Adequate radiographs, direct palpation, and visual inspection of the implant site are necessary prior to implant surgery.

Procedural precautions

Osstem Implant System is for single and two stage surgical procedures. As much as possible, try to minimize damage to the cell tissue and surgical trauma, pay special attention to maintaining the temperature at the implant site and removal of the source of contamination and infection. All drills and taps must be sufficiently and continuously irrigated for cooling during use. Implant placement should be accomplished at very low speed (25-30 rpm) or manually. Excessive torque (greater than 55Ncm) in the fixture placement can have adverse effects such as partial fracture or necrosis of the bone. Placing an implant tilted by 30° or higher is not recommended due to possible fracture of implant. Immediate loading to the fixture right after the surgery should be avoided. The bone quality and initial stability after fixture placement are important elements in determining the appropriate loading time. Mini-diameter implant or implant with diameter of 4.0 or less and which integrates with angled abutment may be fractured due to limitations of structural rigidity. They are not recommended for use in a posterior area. The Ultra-Wide fixtures are intended to be used only to replace molar teeth and that angled abutments are not to be used with the Ultra-Wide fixtures. Evaluate the quantity of bone and radiographs to assess any potential anatomical contraindications to use of the Ultra-Wide fixture. For the placement of the Short Implant (diameter is 5mm or more and length is shorter than 7mm) which is used on the molar region only, clinicians should closely examine the patients for any of the following conditions: 1) periimplant bone loss, 2) changes to implant's response to percussion, 3) radiographic changes in bone to implant contact along the implant's length. If a short implant shows mobility or greater than 50% bone loss, the implant should be considered for possible removal. And clinicians should consider a two-stage surgical approach, splinting a short implant to an additional implant, and placement of the widest possible fixture. Allow longer healing periods for osseointegration before fabrication of the prosthesis and avoid immediate loading. Products with diameter of 3.25mm or less must be used exclusively for mandibular anterior teeth in order to prevent fracture due to excessive occlusal load. It is recommended that you should avoid applying HA coated fixture to hard bone, and the insertion torque of the implant should be less than 35Ncm, because cracks or damages might occur in the coated layer during implant placement. The surfaces of CA and SOI have the same physical shape as the SA surface made through blasting and etching treatments. After the SA surface treatment, to prevent the products' exposure to the atmosphere, CA is stored in solution, whereas SOI is stored in water-film coating form; it is designed to maintain the chemically activated state of the SA surface. Thus, CA or SOI products should be implanted in the target region at least within 15 minutes of taking them out of the container.

Warning

The selection of inappropriate patients and surgical methods can cause implant failure or loss of bone supporting the implant. Osstem implants must not be used for purposes other than the recommended use and must not be remodeled. Implant mobility, bone loss, and chronic infection can result in failure of the implant surgery.

Indications for use

The Osstem Implant System is an artificial dental root that has been designed for use in dental implant treatment in order to recover lost teeth. The system is implanted via a surgical method in maxillary or mandibular bone to replace natural dental root. The Osstem Implant System is indicated for use in partially or fully edentulous mandibles and maxillae, in support of single or multiple-units restorations including; cemented retained, screw retained, or overdenture restorations, and final or temporary abutment support for fixed bridgework. It is intended for delayed loading. Products with diameter of 3.25mm or less must be used exclusively for mandibular anterior teeth in order to prevent fracture due to excessive occlusal load.

Side effects

A few problems may occur after the operation (loss of implant stability, damage of prosthesis, etc.). Deficient quality and quantity of the remaining bone, infection, allergic reaction, inferior oral hygiene or uncooperativeness of patient, implant mobility, partial deterioration of tissue, and improper position or arrangement of implants may cause the above mentioned problems.

Contraindications

Contraindications include the following, but are not limited to:

- Patients with hemophilia or difficulties related to bone or wound treatment
- Patients with uncontrollable diabetes, heavy smoker or alcoholic
- Patients whose immunity system is inactive due to chemical therapy or radiation therapy
- Patients with oral infection or inflammation (improper oral hygiene, bruxism)
- Patients with untreatable occlusion/joint disorder, insufficient dental arch space
- Any patient who is not suitable for an surgery

Manufacturer : Osstem Implant Co., Ltd.
203, Geoje-daero, Yeonje-gu, Busan, Korea
TEL 82-51-850-2500 **FAX** 82-51-861-4693

EC REP

DEUTSCHE OSSTEM GmbH.
Mergenthalerallee 35-37
65760 Eschborn, Germany
+49-(0)6196-777-5500

Storage condition
Dry place at room temperature

Rx only
For USA only : Federal law restricts this device to sale by or on the order of a dentist

CE 2460

PG

STERILE R — Sterilized using irradiation

Use by

Manufacture

Do not reuse

Date of manufacture

Keep away from sunlight

REF — Catalogue number

NON STERILE — Non-Sterile

Keep dry

LOT — Batch code

Do not resterilize

Caution, Consult accompanying documents