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KIT PRODUCT CATALOG

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KIT PRODUCT CATALOG



Osstem Implant 2018-19 Comprehensive Catalog

Overall Planning/Editing PR Department Design Team

Supervision Implant Lab, Marketing PM

Production/Distribution Marketing & Planning Team

Date of Publication 2018.08

Publisher Osstem Implant

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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**

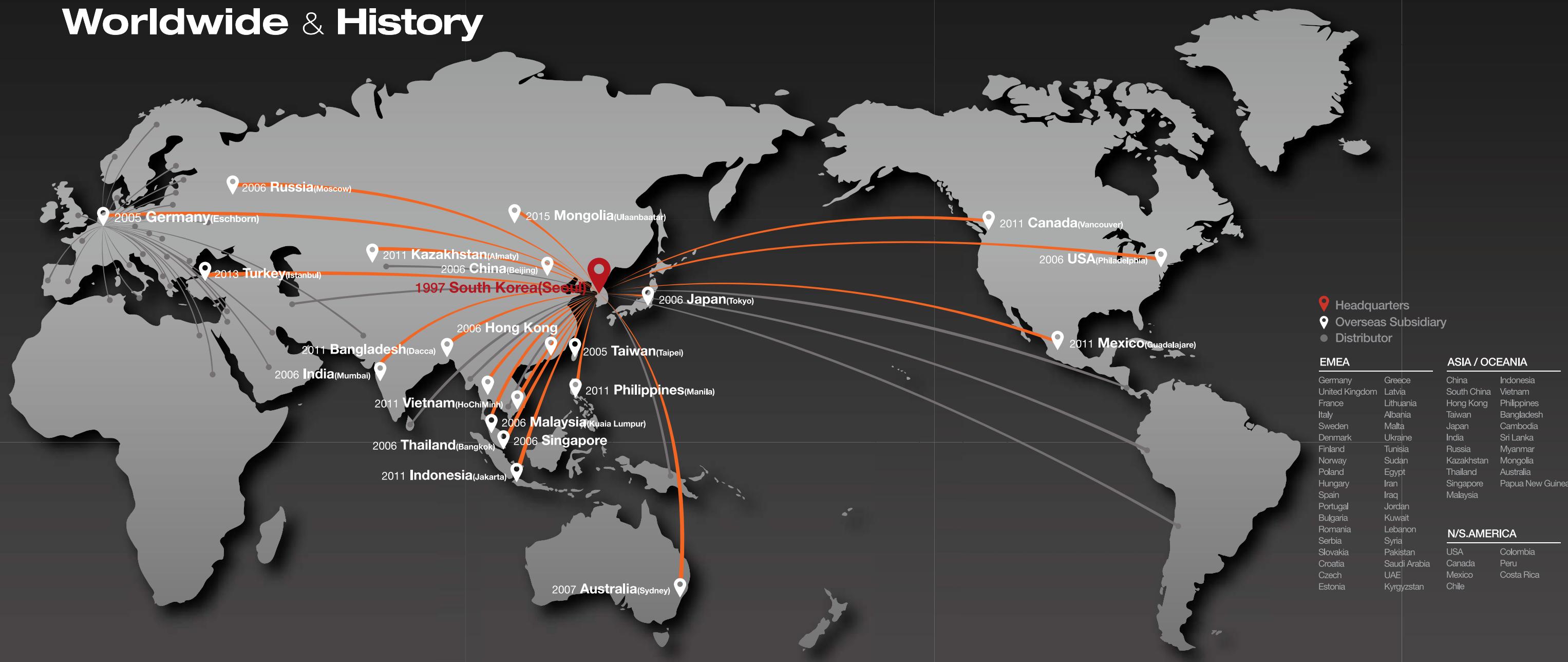
Thank you for using Osstem Implant. Osstem, Korea's first implant manufacturer, has secured world-class implant competitiveness through continuous R&D investment and quality innovation. It has grown to become Asia-Pacific No.1 and World No.5 Implant Company. In addition to dental implants and treatment 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



1997

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

2001

- 01 Obtained CE-0434 certification
- 03 Established AIC training center

2006

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

2008

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

2010

- 03 Launched TSIII SA line
- 06 Launched TSIII HA line

2012

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

2014

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

2016

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

2000

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

2002

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

2007

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

2009

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

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'

2013

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

2015

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

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.



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 the insertion 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

Non-submerged type implant with an internal octa and 8°tapered connection

- Internal connection type - Regular / Wide
- 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
 - SSII (straight body) : easy to adjust the insertion depth
 - SSIII (1.5°tapered body) : excellent initial stability necessary for immediate loading, even in soft bone
- Available surface types - SA / CA / HA / BA

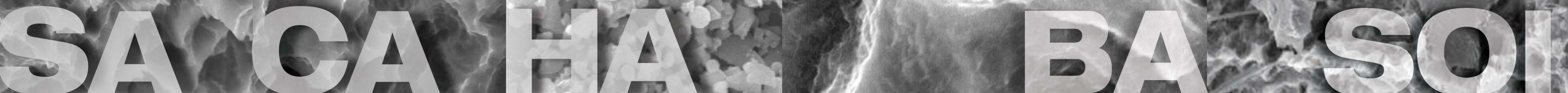
Submerged type implant with an external hex connection structure

- Internal connection type - Mini / Regular / Wide / Wide PS
- 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
 - USII (straight body) : easy to adjust the insertion depth
 - USIII (1.5°tapered body) : excellent initial stability necessary for immediate loading, even in soft bone
 - USIV (6°tapered body) : specifically designed for the maxillary sinus and soft bone, excellent initial stability
- Available surface types - SA / CA

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

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

Premium high-crystalline HA-coated surface

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

Premium low crystalline nano-HA coated SA surface

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

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 μm)
- Superior blood wettability with super hydrophilic surface.

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

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)

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

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

In-vitro & In-vivo Bone Response

- Protein 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

KIT

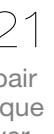
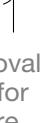
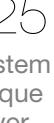
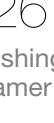
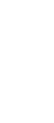
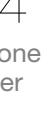
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OSSTEM KIT

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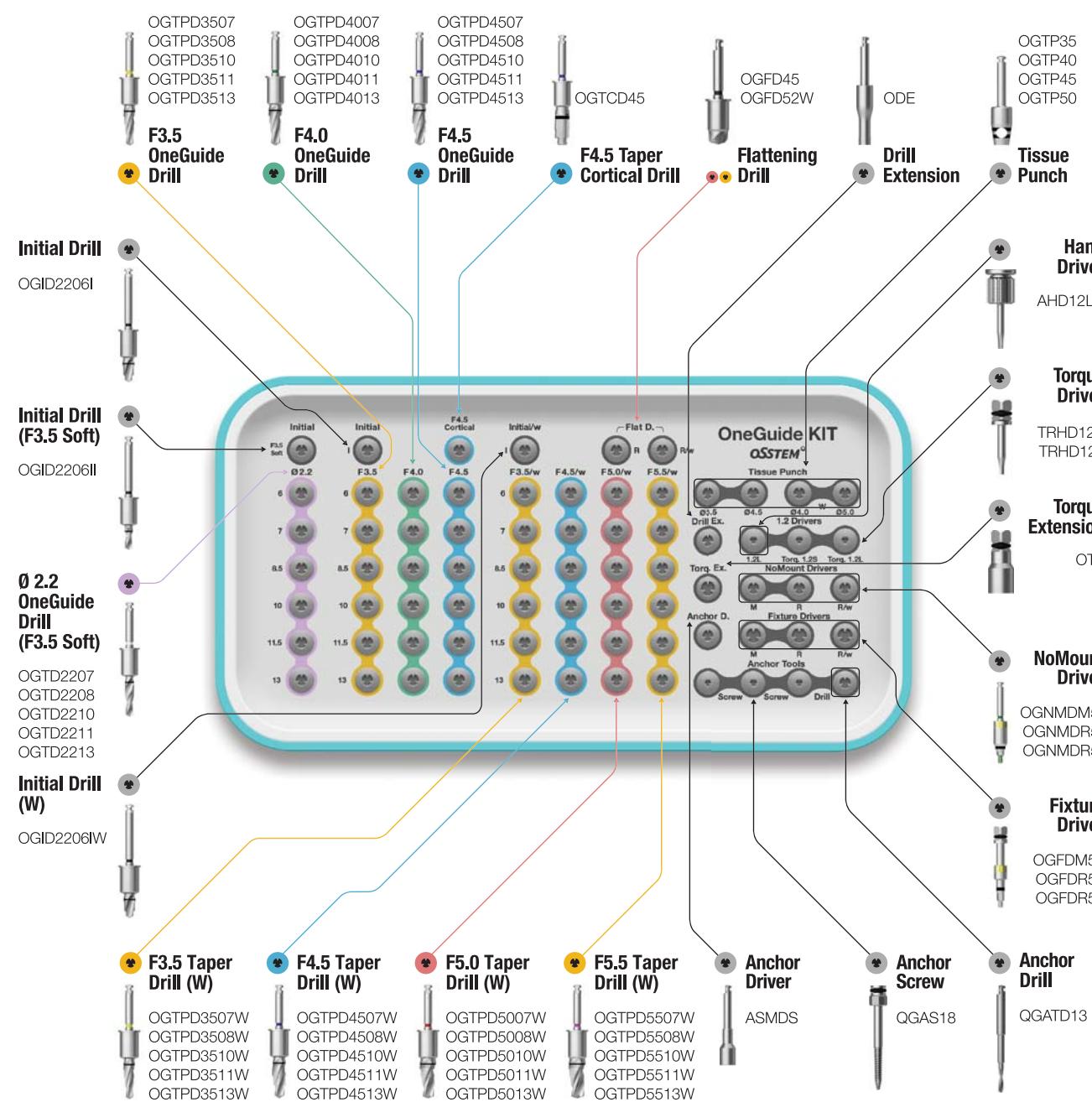
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| 036 | OneCAS KIT | 135 | LAS Full KIT |
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OneGuide KIT (OOGK)



OneGuide KIT Surgical Instruments

For TSIII / IV SSIII USIII



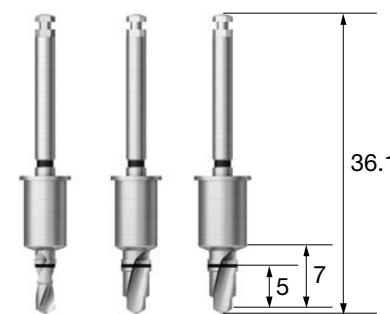
OneGuide

- 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)

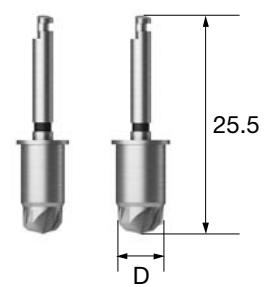


For F3.5 Soft
For below F4.5
For F5.0

OGID2206II
OGID2206I
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)



For Below F4.5
For F5.0

OGFD45

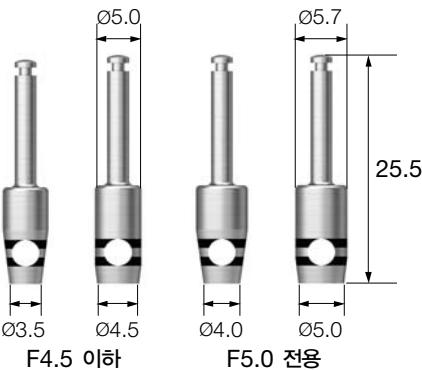
OGFD52W

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

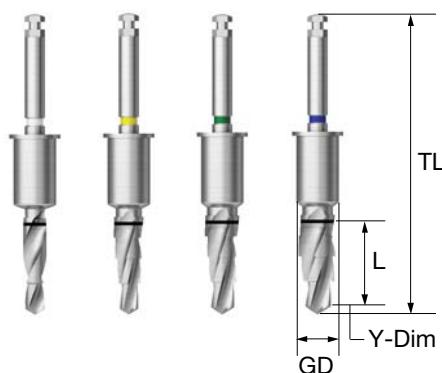


OneGuide Drill

022

OSSTEM KIT

- 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	-

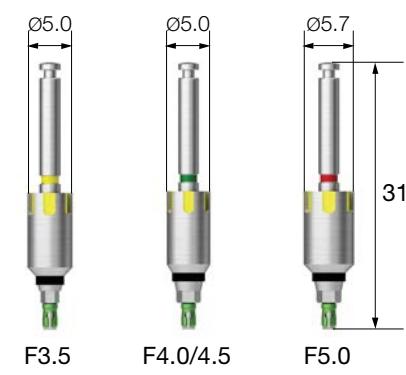
For F5.0

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



023

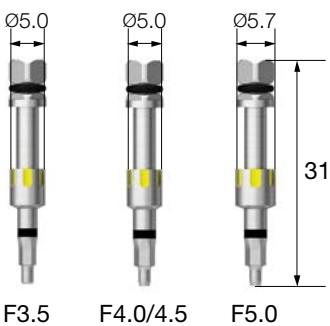
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OneGuide KIT Surgical Instruments

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($\varnothing 5.0$)	Regular($\varnothing 5.0$)	Regular($\varnothing 5.7$)
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

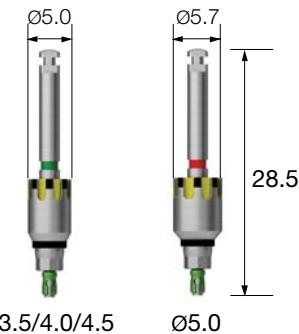


ASMDS

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($\varnothing 5.0$)	Regular($\varnothing 5.7$)
F3.5 / 4.0 / 4.5	OGNMDR50S	-
F5.0	-	OGNMDR57S



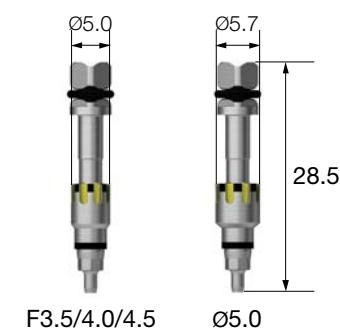
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OSSTEM KIT

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($\varnothing 5.0$)	Regular($\varnothing 5.7$)
F3.5 / 4.0 / 4.5	OGFDR50S	-
F5.0	-	OGFDR57S



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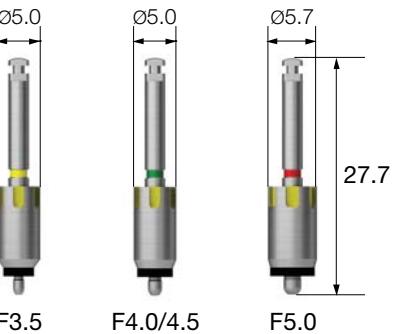
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OneGuide KIT Surgical Instruments

NoMount Driver for US

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

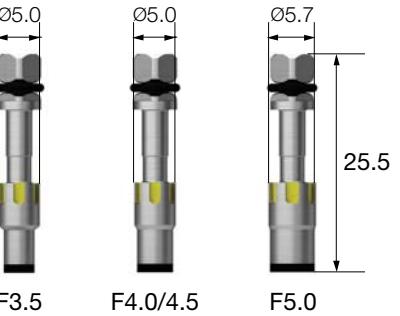
	P	Mini($\varnothing 5.0$)	Regular($\varnothing 5.0$)	Wide($\varnothing 5.7$)
F3.5		OGNMDM50U	-	-
F4.0 / 4.5	-	-	OGNMDR50U	-
F5.0	-	-	-	OGNMDW57U



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($\varnothing 5.0$)	Regular($\varnothing 5.0$)	Wide($\varnothing 5.7$)
F3.5		OGFDM50U	-	-
F4.0 / 4.5	-	-	OGFDR50U	-
F5.0	-	-	-	OGFDW57U



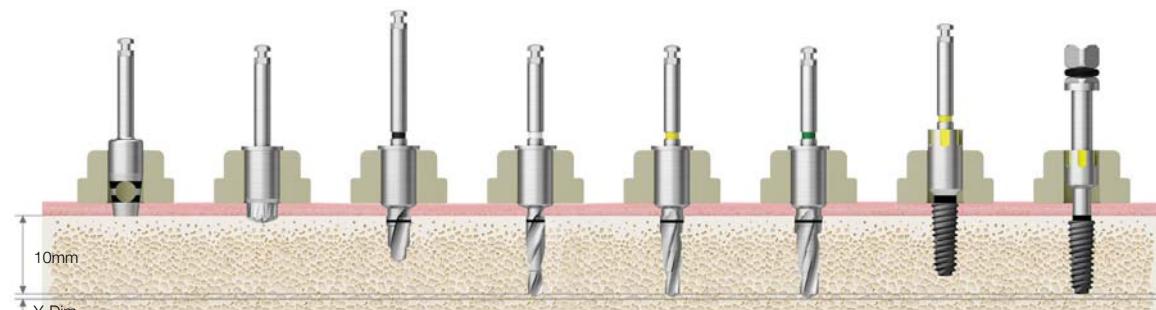
OSSTEM[®]
IMPLANT

Drilling Sequence OneGuide Drill

TSIII | SSIII | USIII

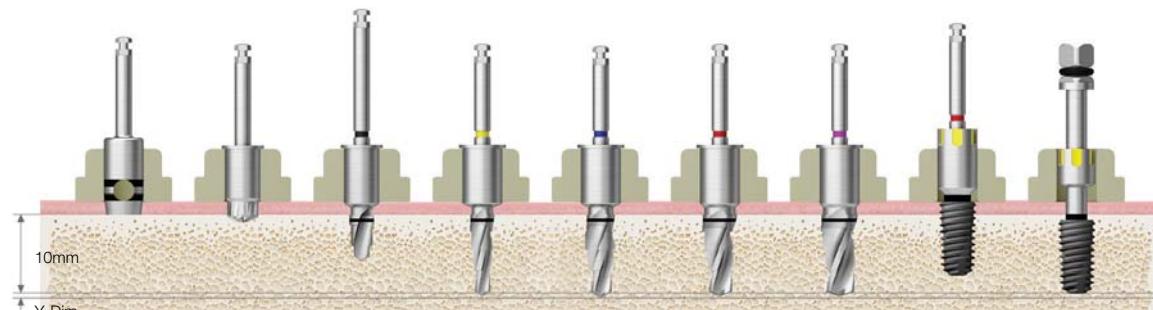
(Length : 10mm)

Ø3.5



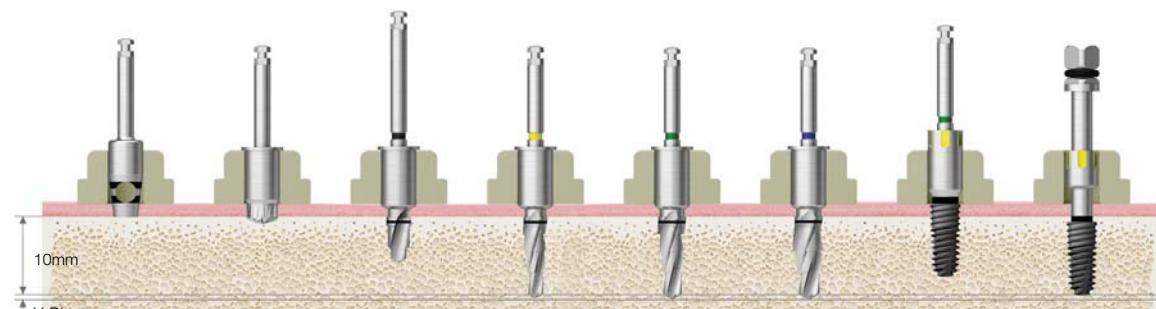
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	ø 2.2 Drill	F3.5 Drill	F4.0 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	(F3.5 Soft) ►	►				
Normal	►	(►)	►		►			
Hard	►	(►)	►		►	►		

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)	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►	►				
Normal	►	(►)	►	►		►			
Hard	►	(►)	►	►	►	►	►		

Ø4.0

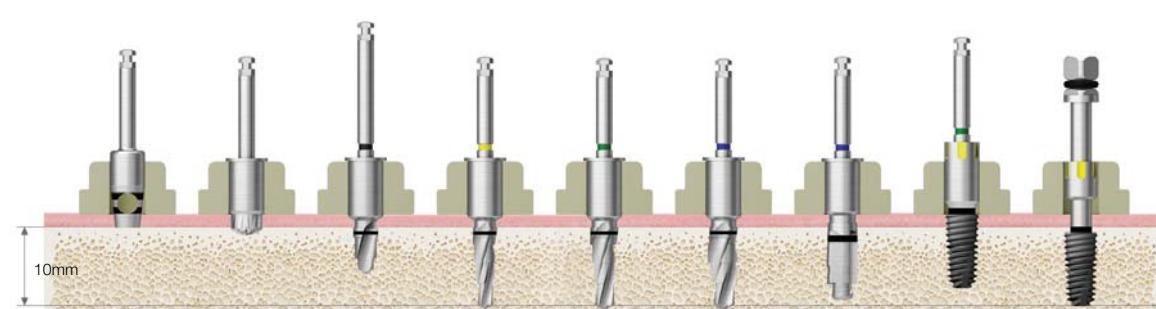


Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►				
Normal	►	(►)	►	►	►			
Hard	►	(►)	►	►		►		

029

OSSTEM KIT

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	►	(►)	►	►	►				
Normal	►	(►)	►	►		►			
Hard	►	(►)	►	►		►	►		

028

OSSTEM KIT

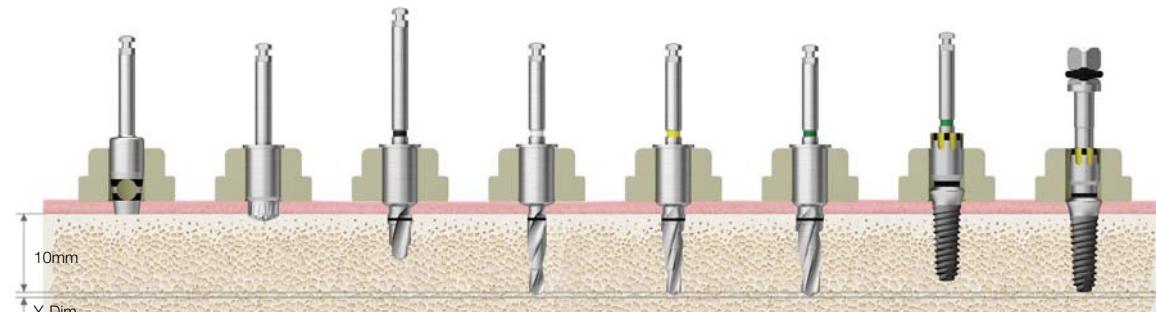


Drilling Sequence OneGuide Drill

TSIII | SSIII | USIII

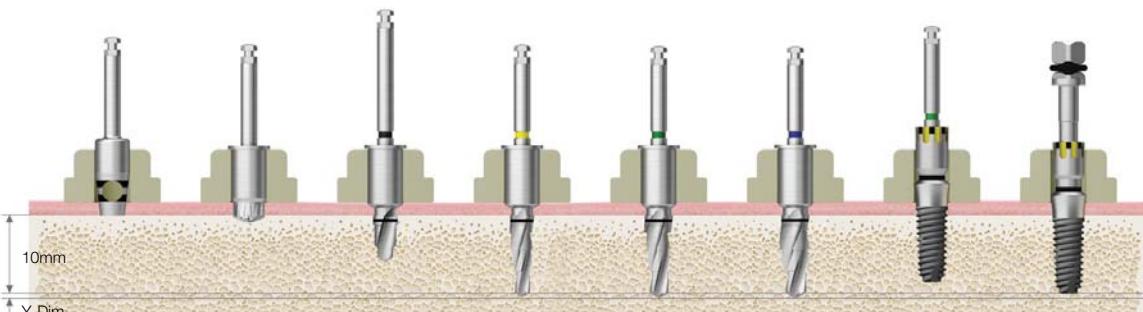
(Length : 10mm)

**G/H1.8
Ø3.5**



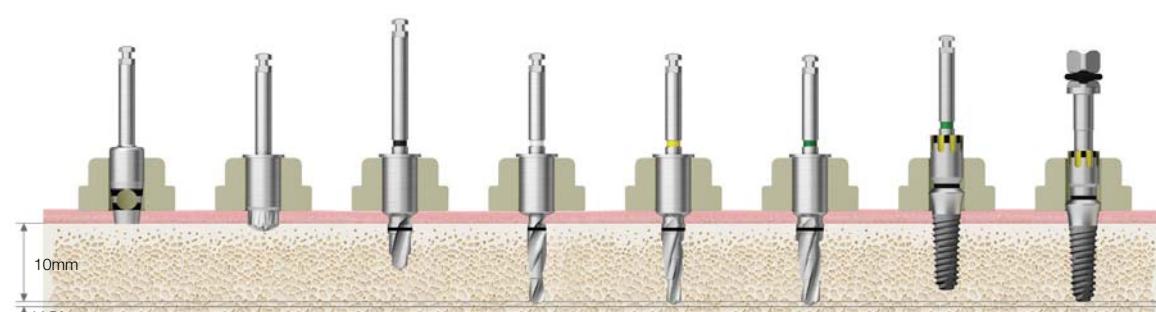
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	ø 2.2 Drill	F3.5 Drill	F4.0 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	(F3.5 Soft) ►	►				
Normal	►	(►)	►		►			
Hard	►	(►)	►		►	►		

**G/H2.8
Ø4.0**



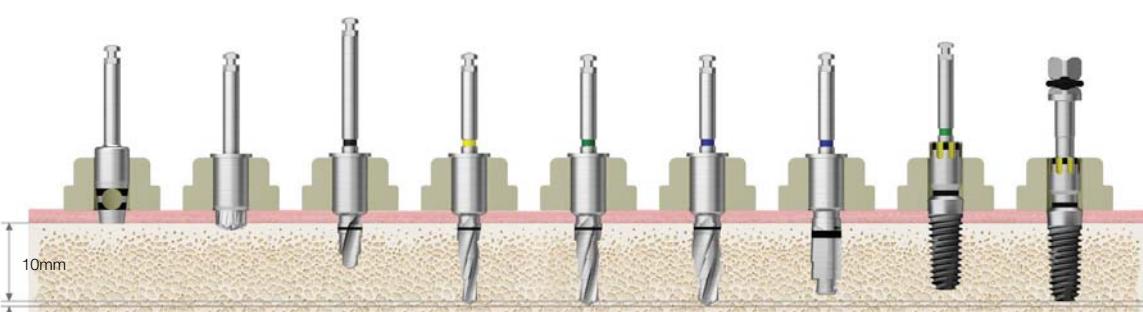
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►				
Normal	►	(►)	►	►	►	►		
Hard	►	(►)	►	►	►	►		

**G/H2.8
Ø3.5**



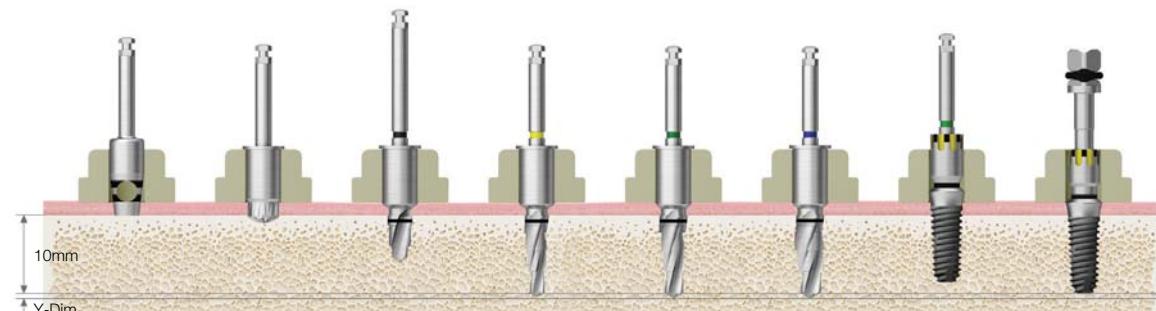
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	ø 2.2 Drill	F3.5 Drill	F4.0 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	(F3.5 Soft) ►	►				
Normal	►	(►)	►		►			
Hard	►	(►)	►		►	►		

**G/H1.8
Ø4.5**



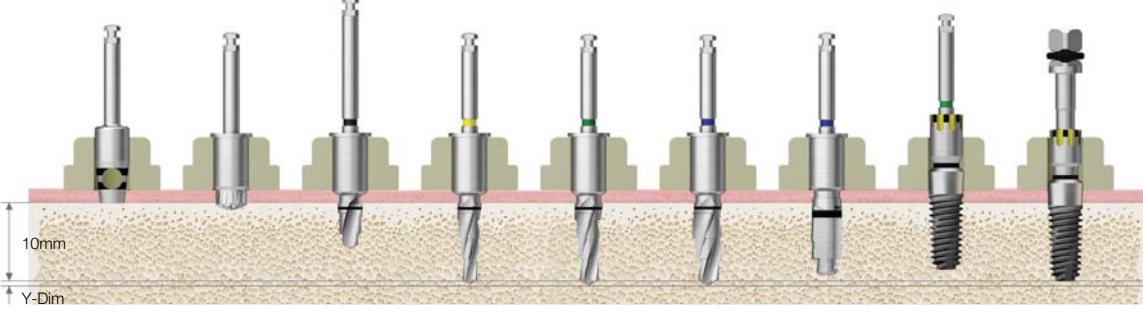
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	F4.5 Cortical	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►	►	►			
Normal	►	(►)	►	►	►	►	►		
Hard	►	(►)	►	►	►	►	►		

**G/H1.8
Ø4.0**



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►				
Normal	►	(►)	►	►	►			
Hard	►	(►)	►	►	►	►		

**G/H2.8
Ø4.5**



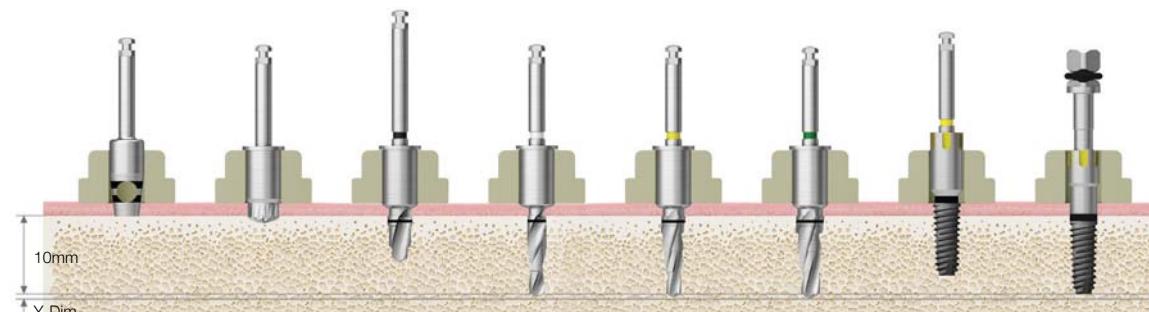
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	F4.5 Cortical	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►	►	►			
Normal	►	(►)	►	►	►	►	►		
Hard	►	(►)	►	►	►	►	►		

Drilling Sequence OneGuide Drill

TSIII | SSIII | USIII

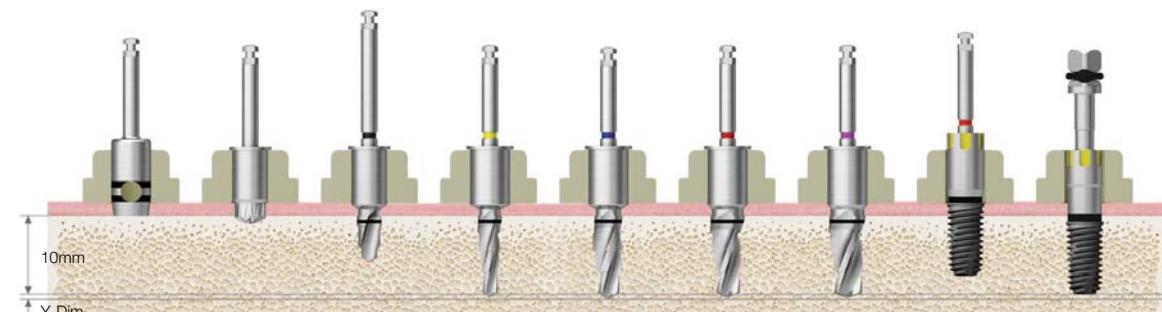
(Length : 10mm)

Ø3.5



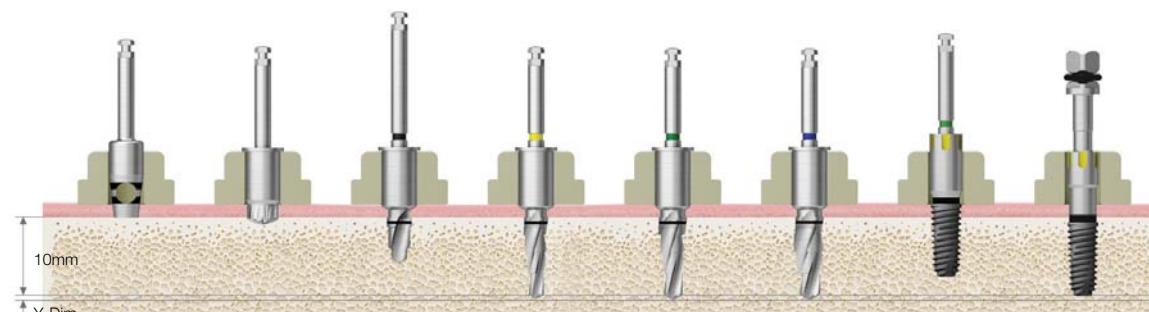
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Ø2.2 Drill	F3.5 Drill	F4.0 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	(F3.5 Soft) ►	►				
Normal	►	(►)	►		►			
Hard	►	(►)	►		►	►		

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)	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►	►				
Normal	►	(►)	►	►		►			
Hard	►	(►)	►	►	►	►	►		

Ø4.0

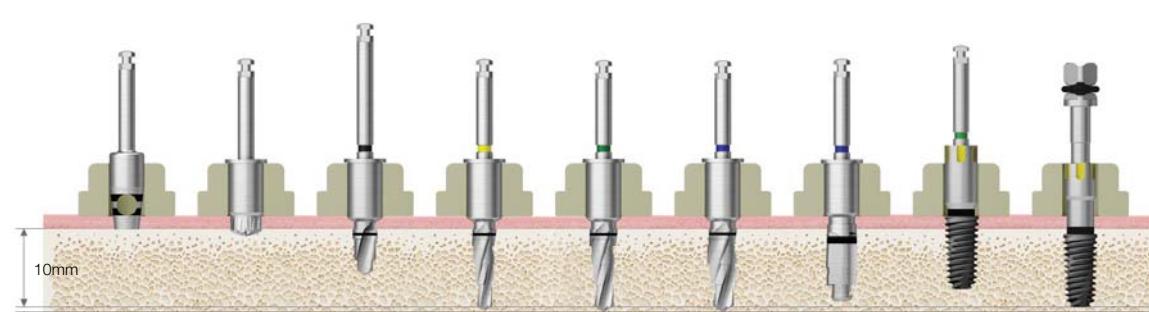


Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►				
Normal	►	(►)	►	►	►			
Hard	►	(►)	►	►		►		

033

OSSTEM KIT

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	►	(►)	►	►	►				
Normal	►	(►)	►	►		►			
Hard	►	(►)	►	►		►	►		

032

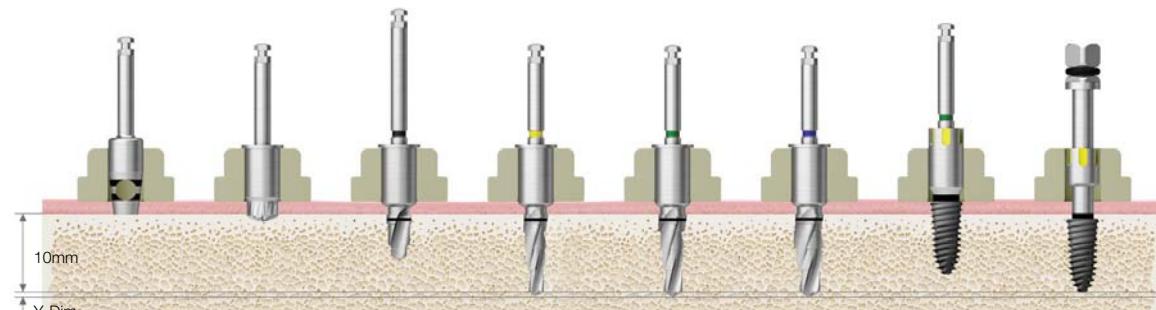
OSSTEM KIT

Drilling Sequence OneGuide Drill

TSIV

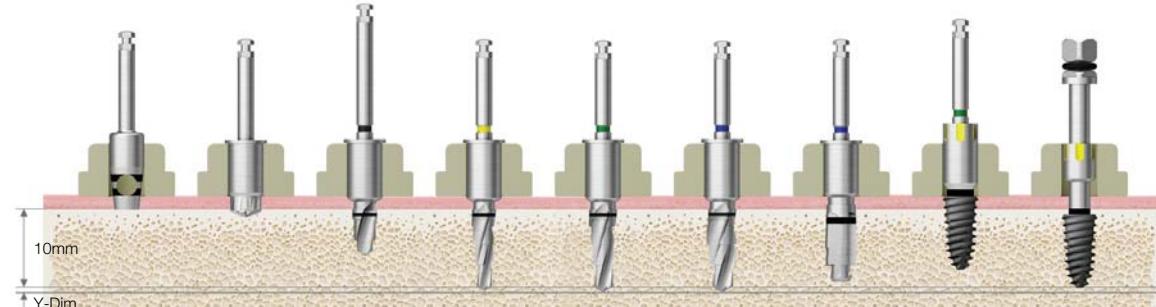
(Length : 10mm)

Ø4.0



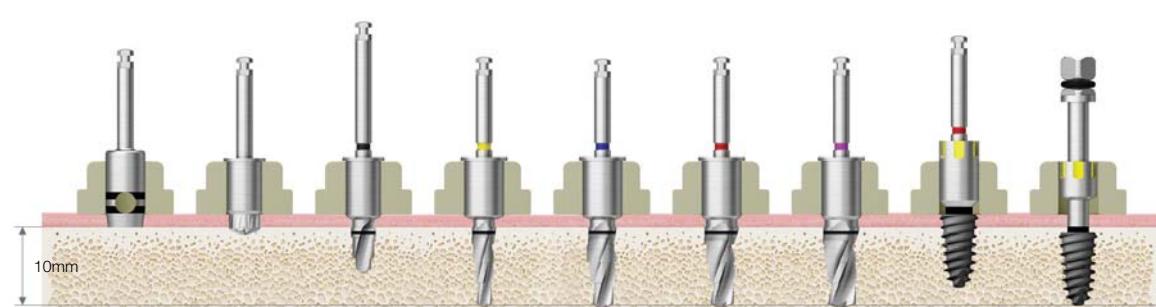
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►				
Normal	►	(►)	►	►	►		Implant Placement (Up to 80%)	Implant Placement
Hard								

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	►	(►)	►	►	►				
Normal	►	(►)	►	►	►	►		Implant Placement (Up to 80%)	Implant Placement
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)	Nomount Driver	Fixture Driver
Soft	►	(►)	►	►	►				
Normal	►	(►)	►	►	►	►		Implant Placement (Up to 80%)	Implant Placement
Hard									

OSSTEM®
IMPLANT

035

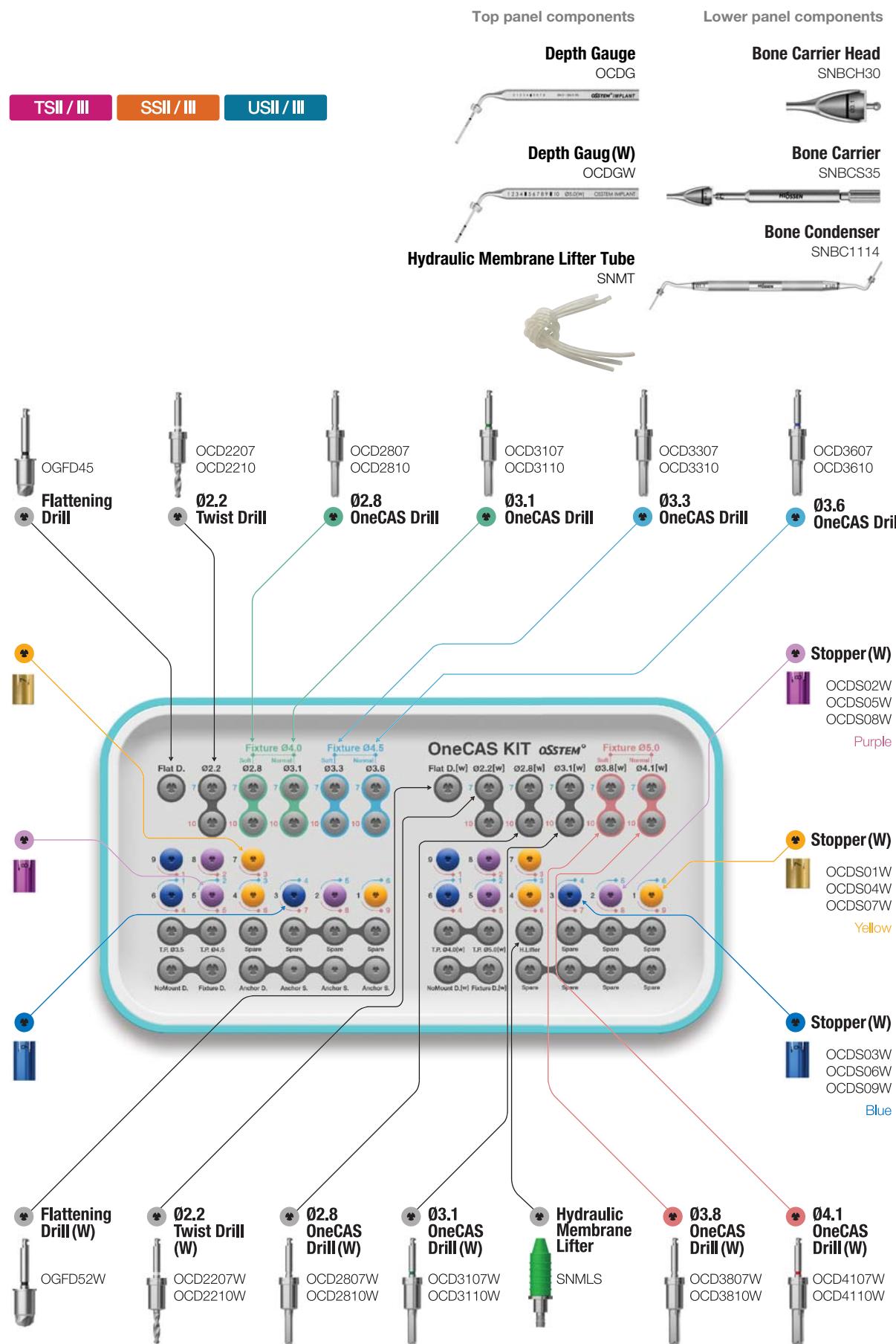
OSSTEM KIT

OneCAS KIT (OOCK)

036

OSSTEM KIT

For TSII / III SSII / III USII / III



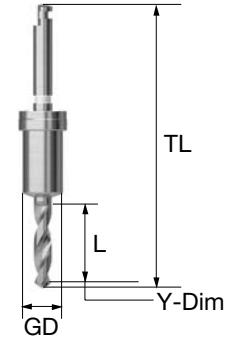
OneCAS KIT Surgical Instruments

037

OSSTEM KIT

OneCAS Ø2.2 Twist Drill

- 1mm under drilling is recommended to the lower margin of maxillary sinus
- Use a stopper for safety lift
- 1mm shorter than normal twist drill



For F4.0/4.5

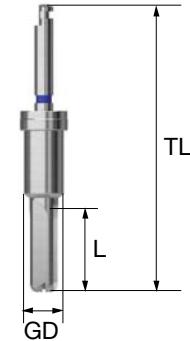
L	TL	Ø2.2
	Y-Dim	0.6
7	33.2	OCD2207
10	36.2	OCD2210

For F5.0 (W)

L	TL	Ø2.2
	Y-Dim	0.6
7	33.2	OCD2207W
10	36.2	OCD2210W

OneCAS Drill

- Use with guide of OneGuide system
- The membrane is safely raised during maxillary sinus surgery
- Possible to collect autogenous bone at low rpm speed
- Use a stopper for safety lift
- Final drill diameter selection based on bone quality
- Recommended rpm speed : 400~800rpm



For F4.0/4.5

L	TL	Ø2.8	Ø3.1	Ø3.3	Ø3.6
	GD			5.0	
7	33.6	OCD2807	OCD3107	OCD3307	OCD3607
10	36.6	OCD2810	OCD3110	OCD3310	OCD3610

For F5.0 (W)

L	TL	Ø2.8	Ø3.1	Ø3.8	Ø4.1
	GD			5.7	
7	33.6	OCD2807W	OCD3107W	OCD3807W	OCD4107W
10	36.6	OCD2810W	OCD3110W	OCD3810W	OCD4110W



OneCAS Stopper

- Stopper number is the length to stop when drill or instrument is tightened
- When the 7mm drill is tightened on the KIT middle plate, the protruding length is indicated in blue and when 10mm drill is tightened, the protruding length is indicated in red
- Color coding by length
- Recommended number of use : 50times

For F4.0/4.5



Depth Gauge

- Check if maxillary sinus is lifted
- Measure residual bone depth
- Use a stopper for safety lift
- Same depth marking line with 10mm drill



For F4.0/4.5

L \ GD 5.0
10.6 OCDG

For F5.0 (W)

L \ GD 5.7
10.6 OCDGW

038

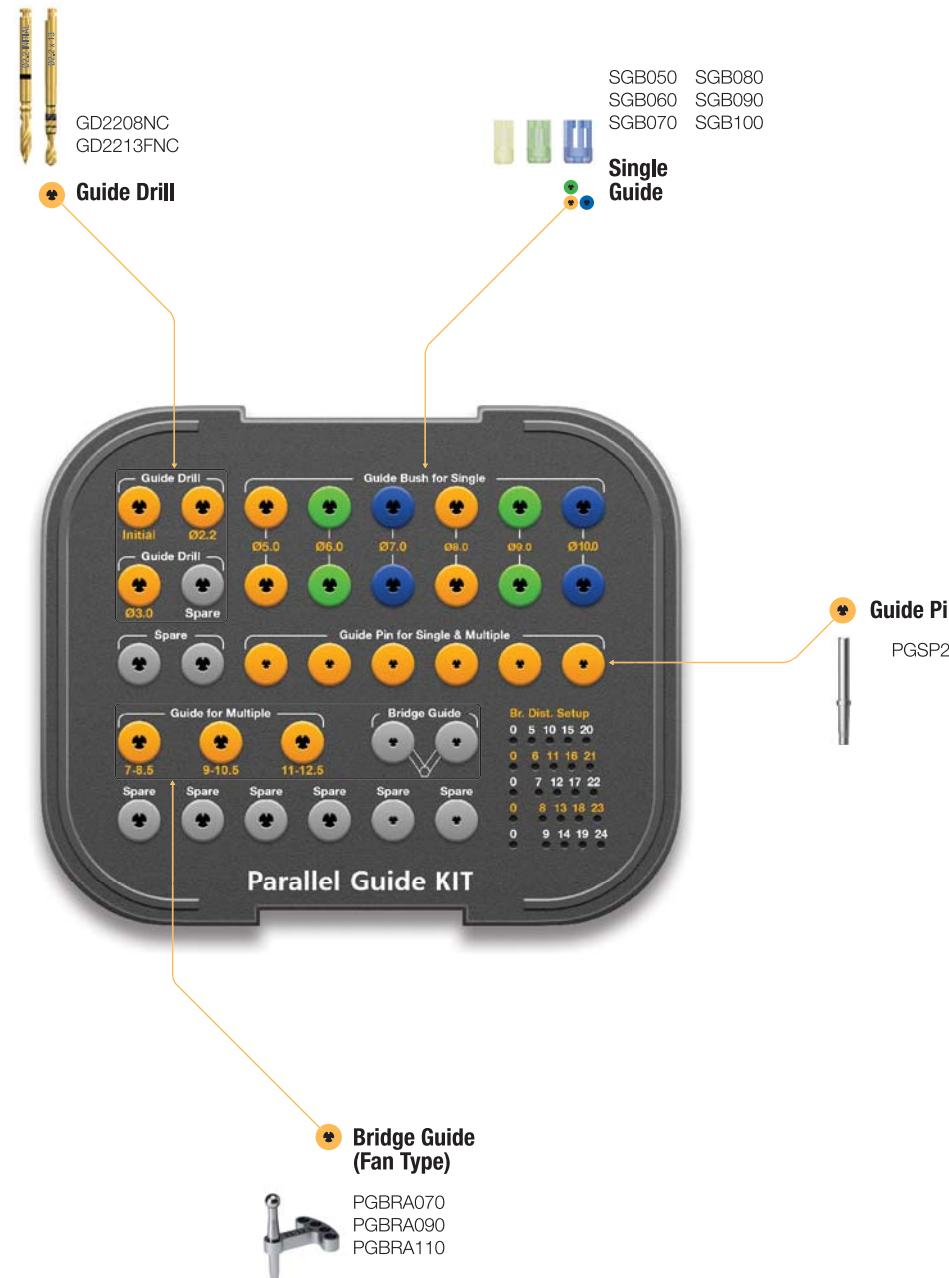
For F5.0 (W)



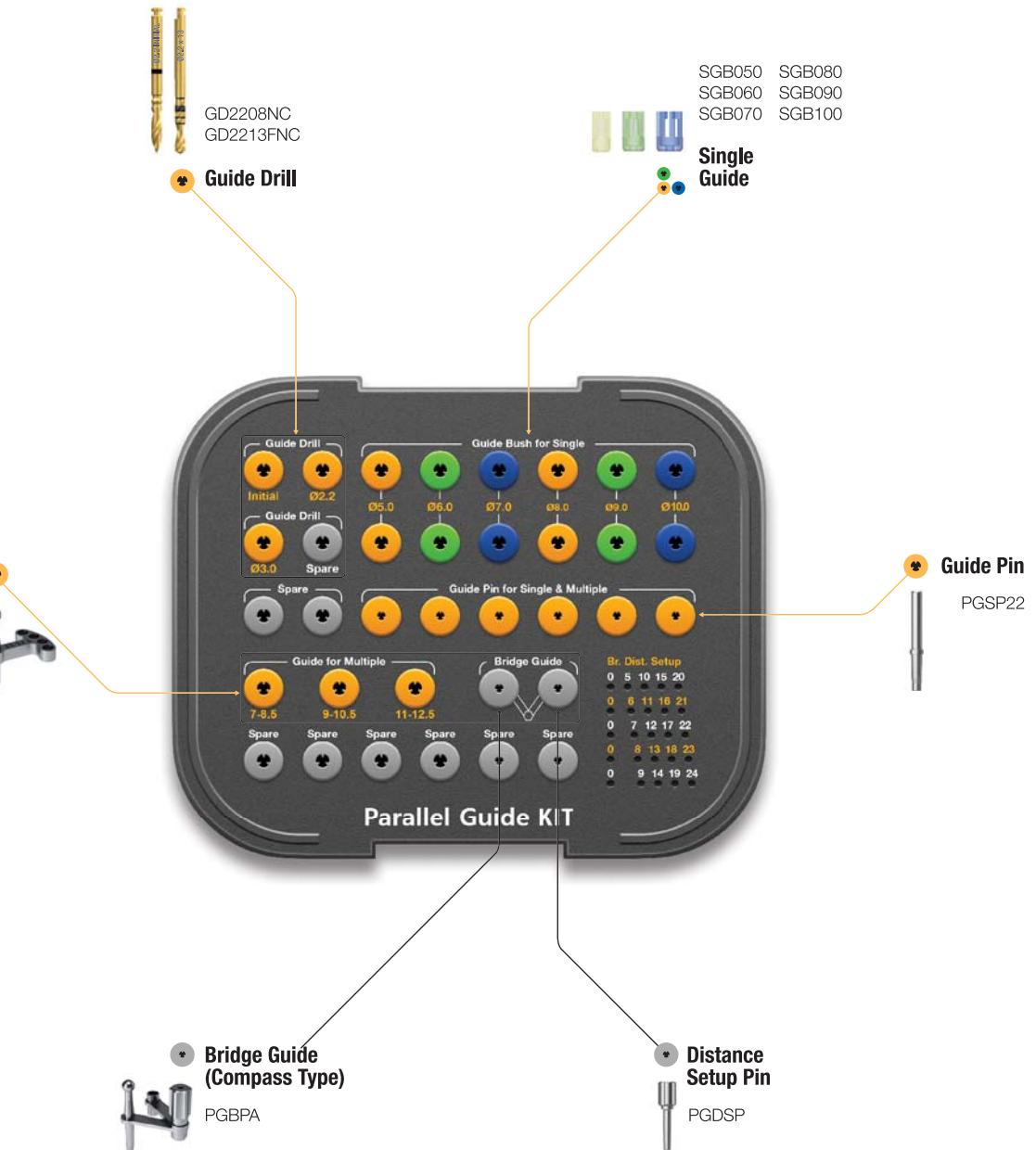
039

OSSTEM KIT

Parallel Guide KIT (OPGPK)



Parallel Guide Full KIT (OPGAK)



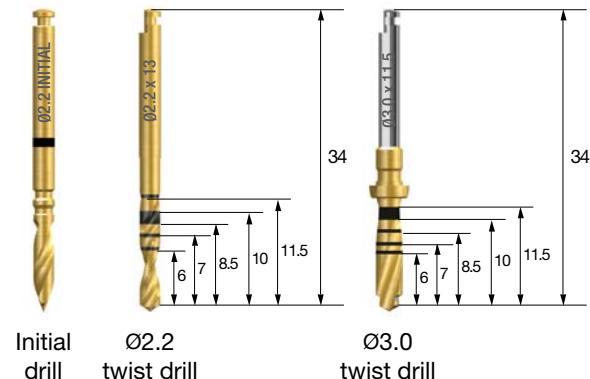
Parallel Guide KIT

Surgical Instruments

Guide Drill

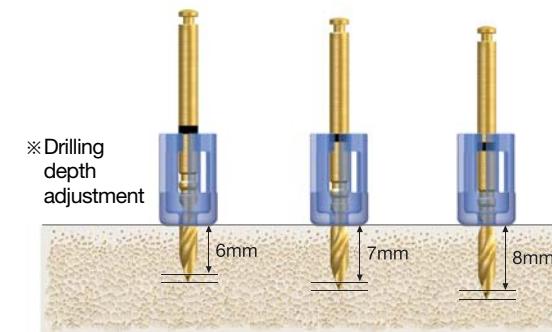
- Initial drill : drilling depth can be adjusted by fastening it to the single guide
- Ø 2.2 twist drill : used with the bridge guide
- Ø 3.0 twist drill : final drill

D	Ø2.2	Ø3.0
Initial drill	GD2208NC	-
Twist drill	GS2213FNC	2D3011LC01



Single Guide

- 042
- Transparent material indicates the location and direction of drilling
 - Available in six sizes from Ø 5.0~10.0, must take into account the mesiodistal crown diameters
 - Packing unit : 2ea
 - Disposable; do not re-use
 - Drilling depth can be adjusted from 6~8mm, refer to the initial drill marker and top of the single guide marker



F5.0 F6.0 F7.0 F8.0 F9.0 F10.0



Guide Pin

- Checks drilling path and secures the single guide



PGSP22

Bridge Guide

- Adjustable drill guide for setting up the optimal implant placement and initial drilling sites
- Fan type : range between 7-12.5mm, 0.5mm increments
- Compass type : range between 5-24mm, 1mm increments
- Set distance using the kit's middle plate



Type \ Distance	7~8.5	9~10.5	11~12.5	5~24
Fan	PGBRA070	PGBRA090	PGBRA110	-
Compass	-	-	-	PGBPA

Multi Joint Handle Option

- Handle connects to the ball head of the bridge guide, provides information about the guide from outside the mouth



MJH

Denture Guide Option

- Angle adjustable denture guide for fully edentulous cases
- Using a stone model, arrange the guide to the ideal configuration. Tighten and set the guide using the L-wrench.
- Transfer to the patient to start surgery.
- Markers represent tooth positions, 2, 3, 4, 5, etc... starting from the midline



PGODA

043

OSSTEM KIT

Parallel Guide KIT

Surgical Instruments

L-wrench Option

- Tightens the denture guide after size adjustments



LWC20H

Distance Setup Pin Option

- Compass type bridge guide and pin type denture guide



PGDSP

044

OSSTEM KIT

SmartGuide KIT (OSGK)

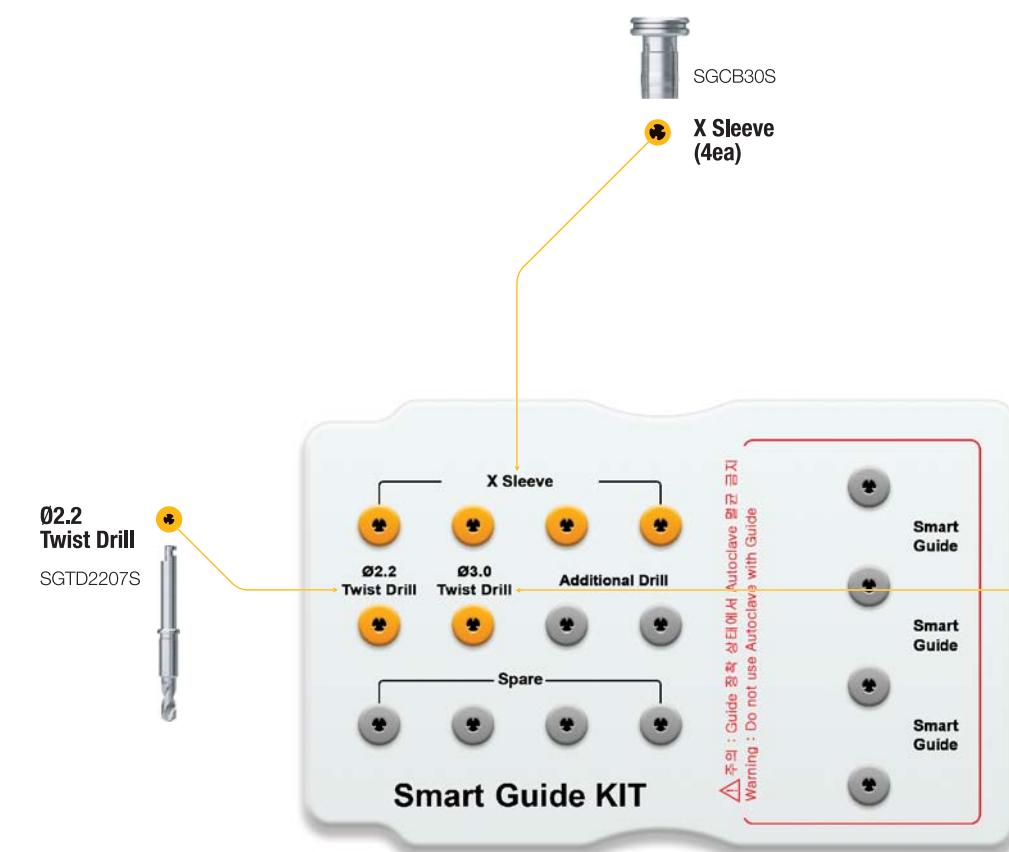


Lower panel components

Guide Pin (4ea)
SGP 22

Round bur (2ea)
RAHM1018

Ø2.2 Cast Drill (2ea) For stone models
2D2208LC01



045

OSSTEM KIT

SmartGuide KIT Surgical Instruments

SmartGuide

- Medical grade thermoplastic material
 - Becomes flexible when immersed in 70°C water for approx. 1min
 - Template hardens in 1min at room temperature
- ※ Disposable; do not re-use; sterilizable under low temperature (Do not autoclave, do not use hydrogen peroxide)

Type	Single	Free-end Bridge	2-Unit Br.: small	2-Unit Br.: large
				
	SGTSS	SGTFB90LS	SGTB63SS	SGTB85LS

046

OSSTEM KIT

Twist Drill

- Drills specifically for SmartGuide
- Stable drilling through the SmartGuide sleeve
- Initial drilling using the Ø 2.2, followed by Ø 3.0 drill
- Recommended speed : 1,200~1,500rpm

D	Ø2.2	Ø3.0
	SGTD2207S	QGTD3008



X Sleeve

- Connect to the SmartGuide sleeve and insert into the surgical site
- After tightening to a SmartGuide outside the mouth, tighten it in the mouth


SGCB30S

047

OSSTEM KIT

Round Bur

- Marks site of the guide pin on a stone model
- Number of usages : 10 times
- Recommended speed : 1,200~1,500rpm

D	Ø1.8
RAHM1018	



Ø2.2 Twist Drill For stone models

- Drills the hole in the stone model for the guide pin
- Number of usages : 10 times
- Drill after marking the site with the round bur
- Recommended speed : 1,200~1,500rpm

D	Ø2.2
2D2208LC01	



Guide Pin

- Pin that secures the SmartGuide to the stone model
- Connected to the SmartGuide sleeve

SGP22



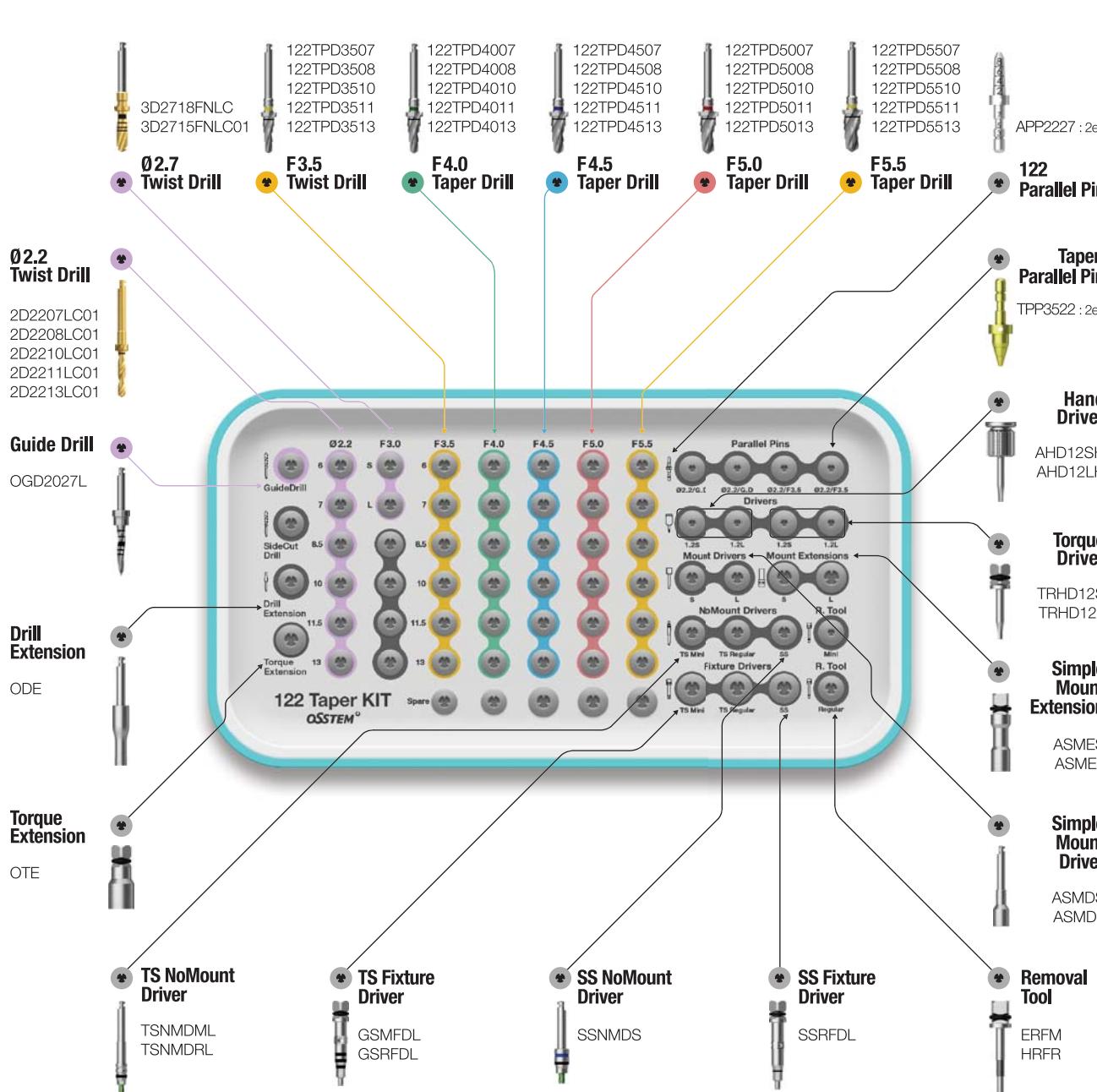
122 Taper KIT (0122TPK)



122 Taper Full KIT (0122TPFK)

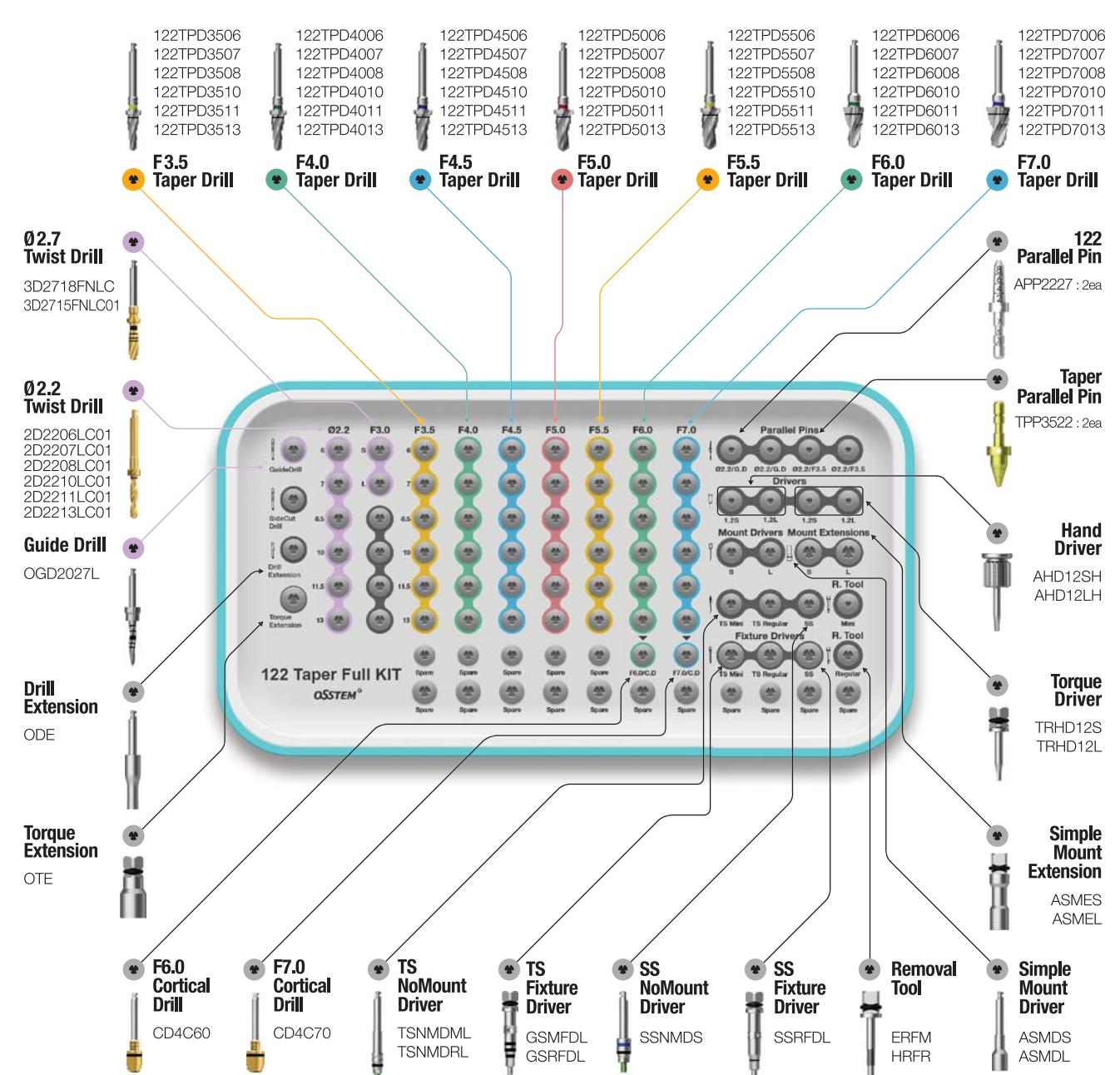
For TSIII / IV SSIII USIII / IV

Top panel components



For TSIII / IV SSIII USIII / IV III / IV Ultra-wide

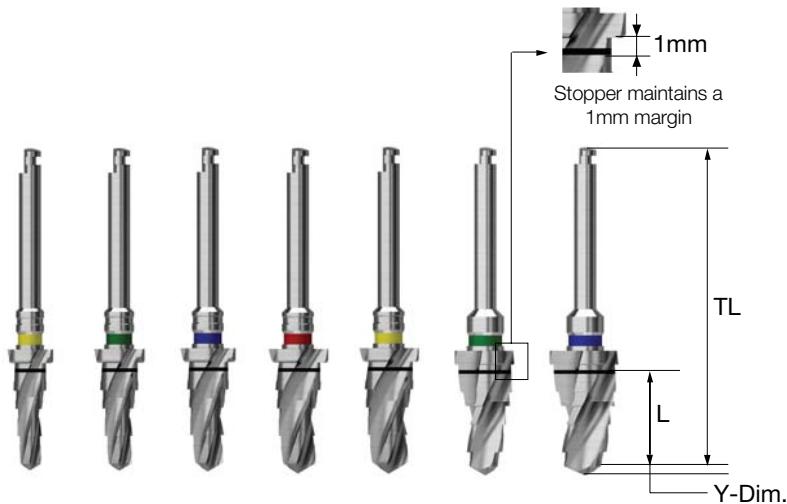
Top panel components



122 Taper KIT Surgical Instruments

122 Taper Drill

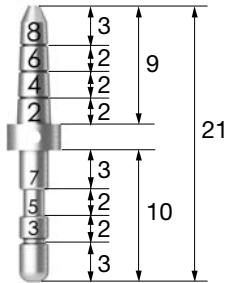
- Taper drill for taper (III type) fixture
- Specification by diameter and length
- Color coding displays fixture diameter
- One step large-diameter drill is used to remove cortical bone from the hard bone
- 122 taper KIT single item (excluded from taper KIT)
- F = Fixture



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

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



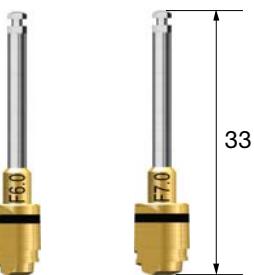
APP2227

※ Refer to surgical instruments for other components (106p~)

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



051

OSSTEM KIT

050

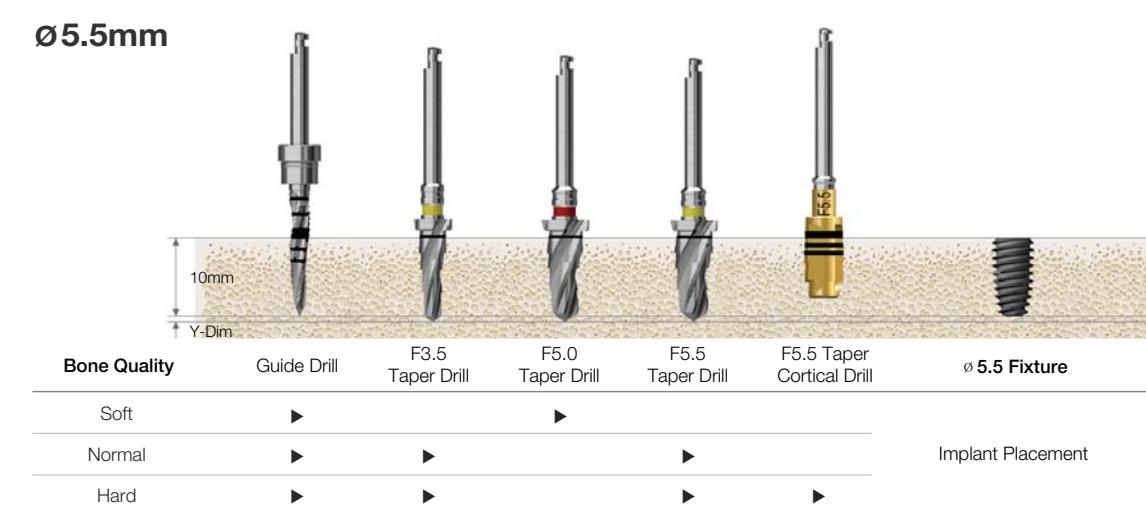
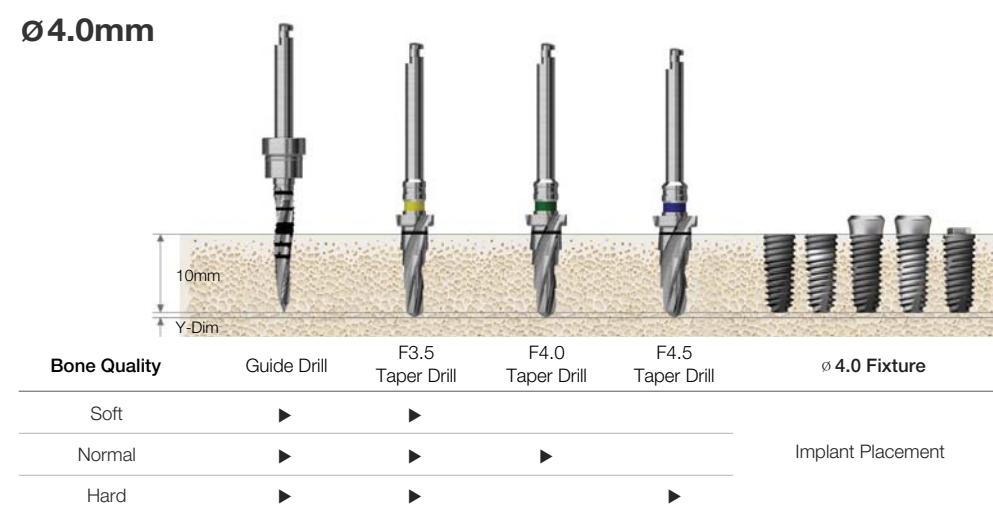
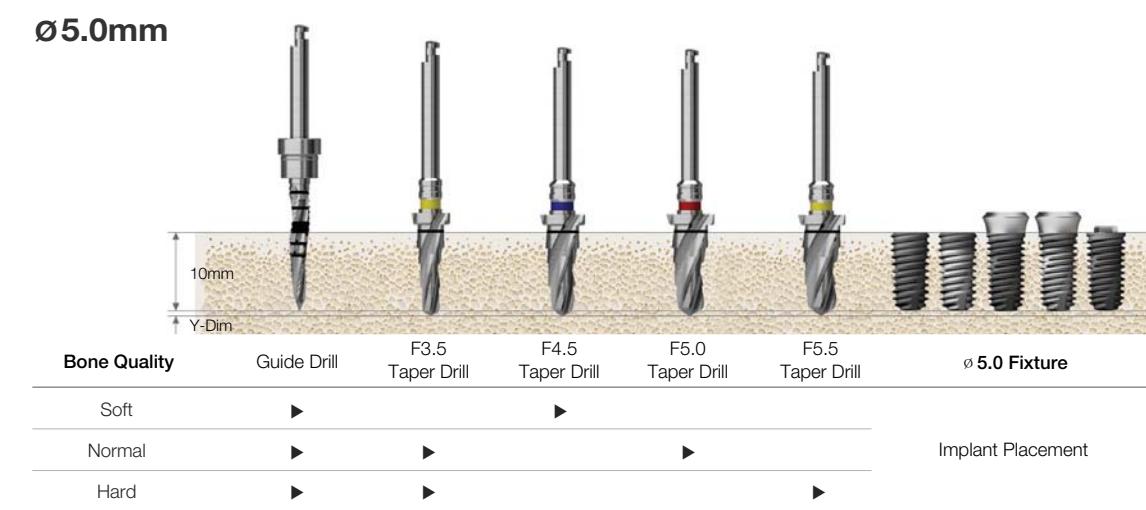
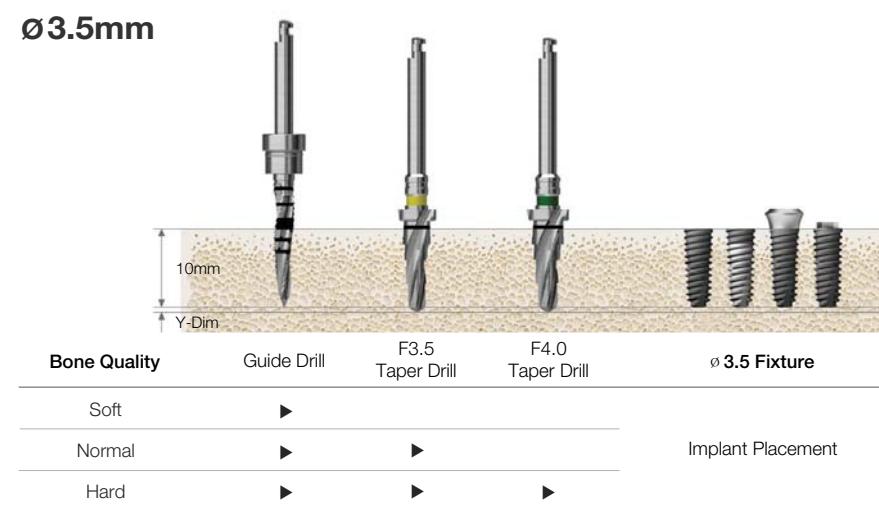
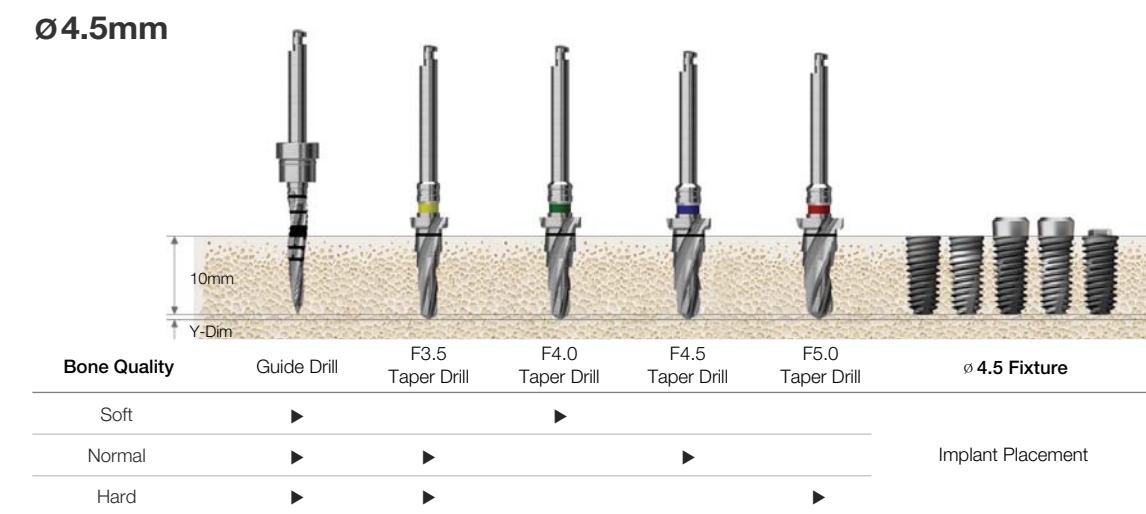
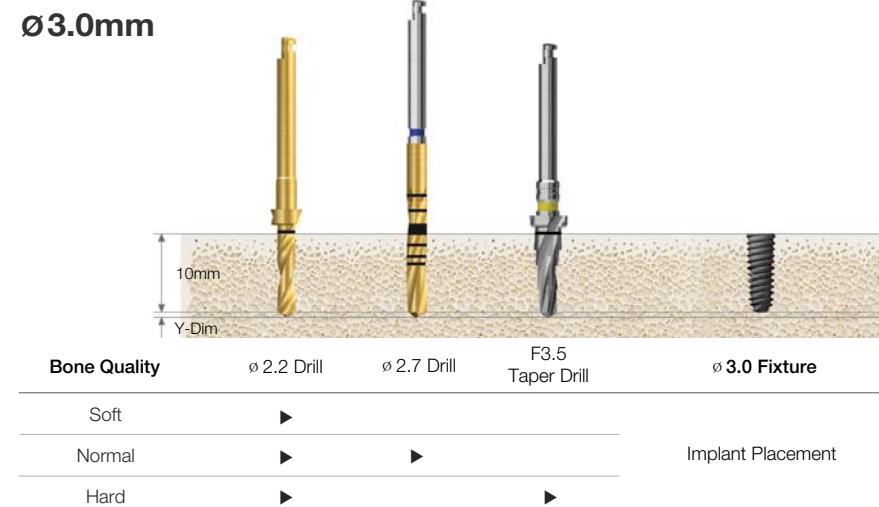
OSSTEM KIT

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



052

OSSTEM KIT

053

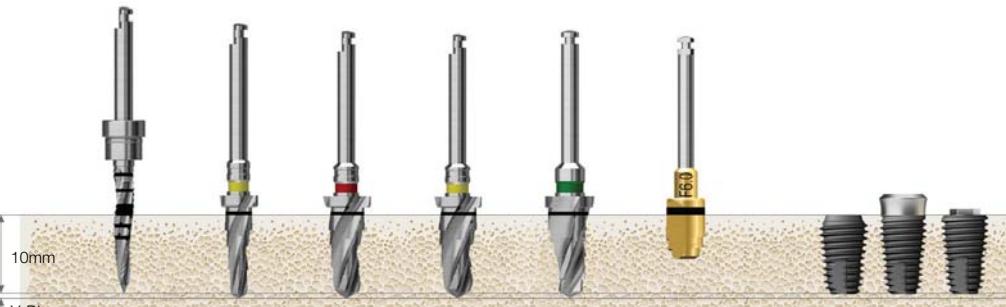
OSSTEM KIT

Drilling Sequence 122 Taper Drill

TSIII Ultra-wide | SSIII Ultra-wide | USIII Ultra-wide

(Length : 10mm)

$\varnothing 6.0\text{mm}$



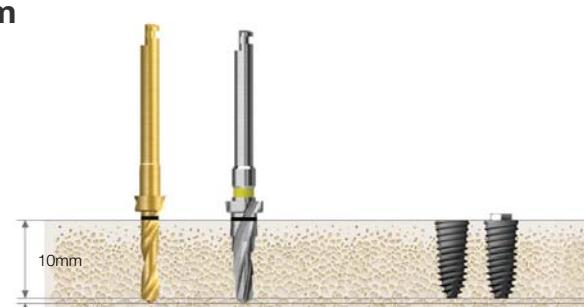
Bone Quality	Guide Drill	F3.5 Taper Drill	F5.0 Taper Drill	F5.5 Taper Drill	F6.0 Taper Drill	F6.0 Cortical Drill	$\varnothing 6.0$ Fixture
Soft	►		►	►			
Normal	►	►	►		►		Implant Placement
Hard	►	►	►		►	►	

Drilling Sequence 122 Taper Drill

TSIV | USIV

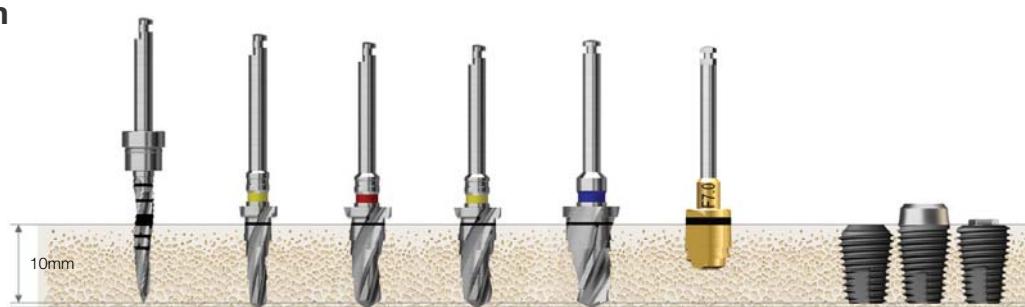
(Length : 10mm)

$\varnothing 4.0\text{mm}$



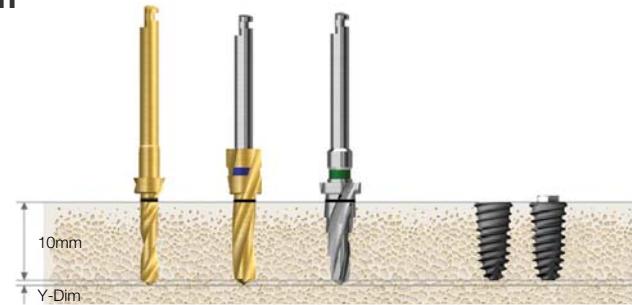
Bone Quality	$\varnothing 2.2$ Drill	F3.5 Taper Drill	$\varnothing 4.0$ Fixture
D4	►		
Soft	►	►	Implant Placement

$\varnothing 7.0\text{mm}$



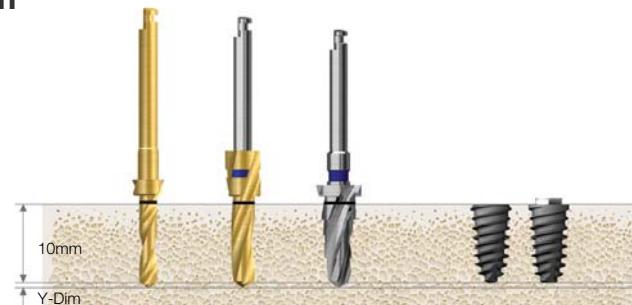
Bone Quality	Guide Drill	F3.5 Taper Drill	F5.0 Taper Drill	F6.0 Taper Drill	F7.0 Taper Drill	F7.0 Cortical Drill	$\varnothing 7.0$ Fixture
Soft	►		►	►			
Normal	►	►	►		►		Implant Placement
Hard	►	►	►		►	►	

$\varnothing 4.5\text{mm}$



Bone Quality	$\varnothing 2.2$ Drill	$\varnothing 3.0$ Drill	F4.0 Taper Drill	$\varnothing 4.5$ Fixture
D4	►			
Soft	►	►	Implant Placement	

$\varnothing 5.0\text{mm}$



Bone Quality	$\varnothing 2.2$ Drill	$\varnothing 3.0$ Drill	F4.5 Taper Drill	$\varnothing 5.0$ Fixture
D4	►			
Soft	►	►	Implant Placement	

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

054

OSSTEM KIT

055

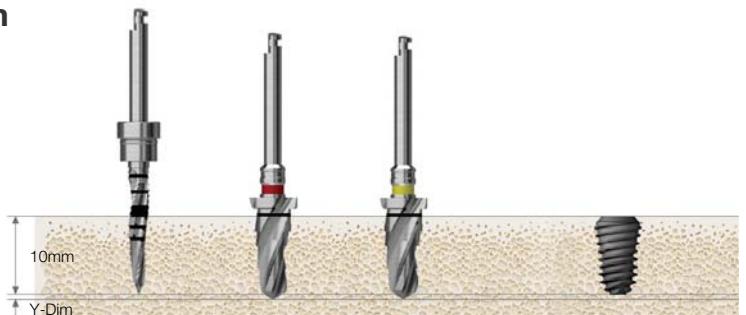
OSSTEM KIT

Drilling Sequence **122 Taper Drill**

TSIV Ultra-wide

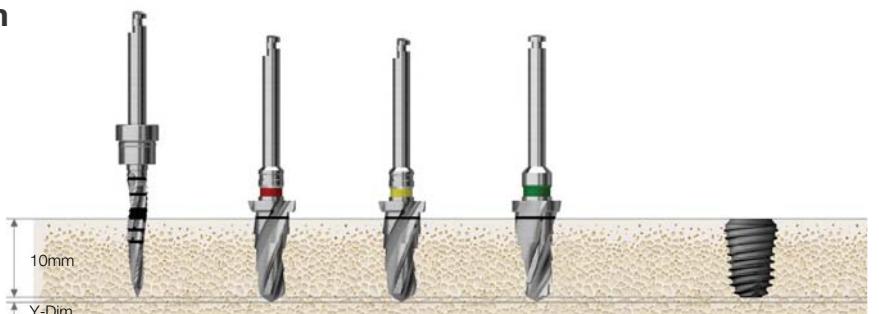
(Length : 10mm)

Ø6.0mm



Bone Quality	Guide Drill	F5.0 Taper Drill	F5.5 Taper Drill	Ø 6.0 Fixture
D4	►	►		
Soft	►	►	►	Implant Placement

Ø7.0mm



Bone Quality	Guide Drill	F5.0 Taper Drill	F5.5 Taper Drill	F6.0 Taper Drill	Ø 7.0 Fixture
D4	►	►	►		
Soft	►	►	►	►	Implant Placement

OSSTEM[®]
IMPLANT

056

OSSTEM KIT

057

OSSTEM KIT

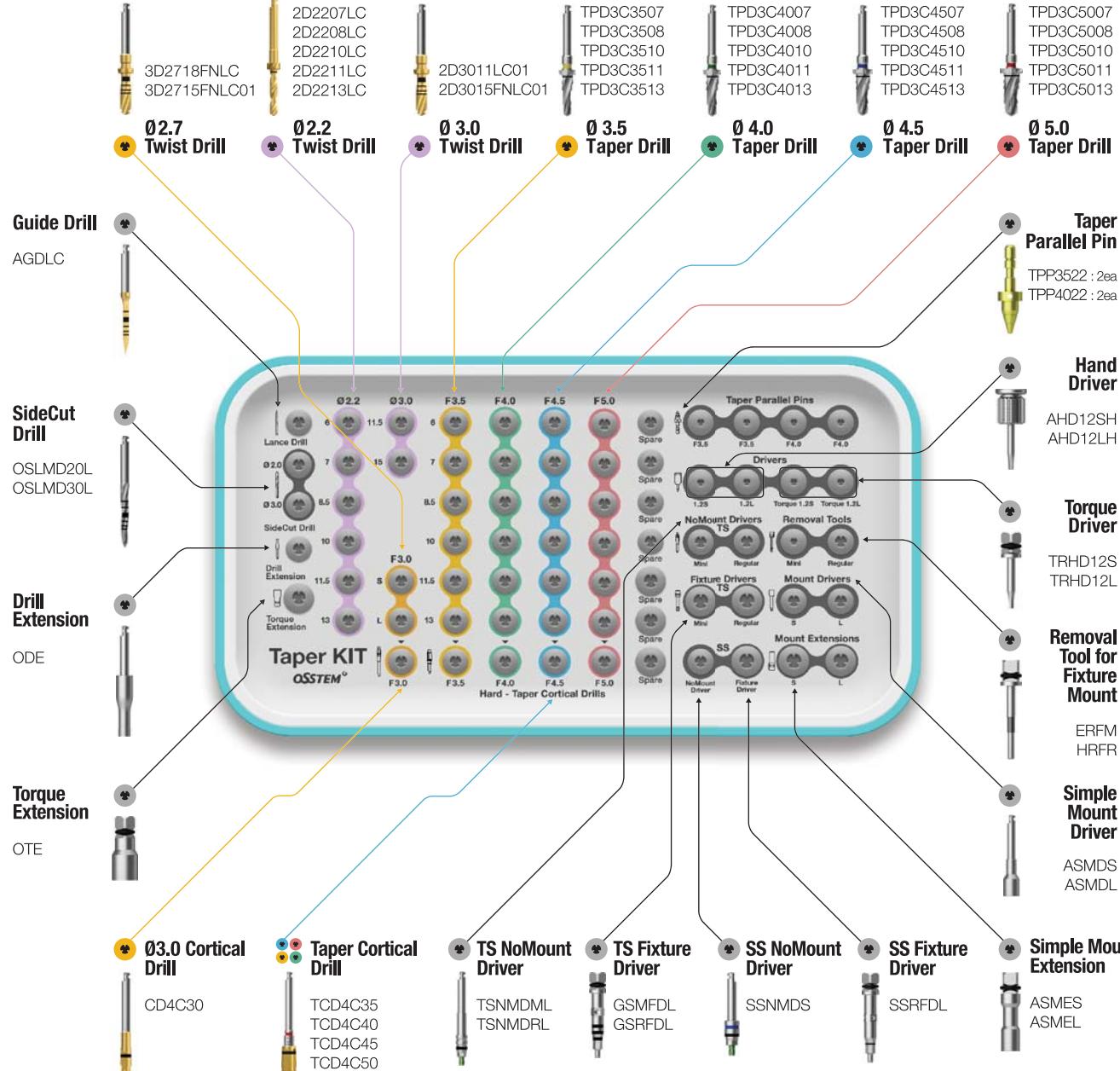
F5.5 taper cortical drill marking line Bottom line 6mm or less, middle line 7mm, top line 8.5mm or more fixture placement standard

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

Taper KIT (OTSK)

For **TSIII / IV** **SSIII** **USIII**

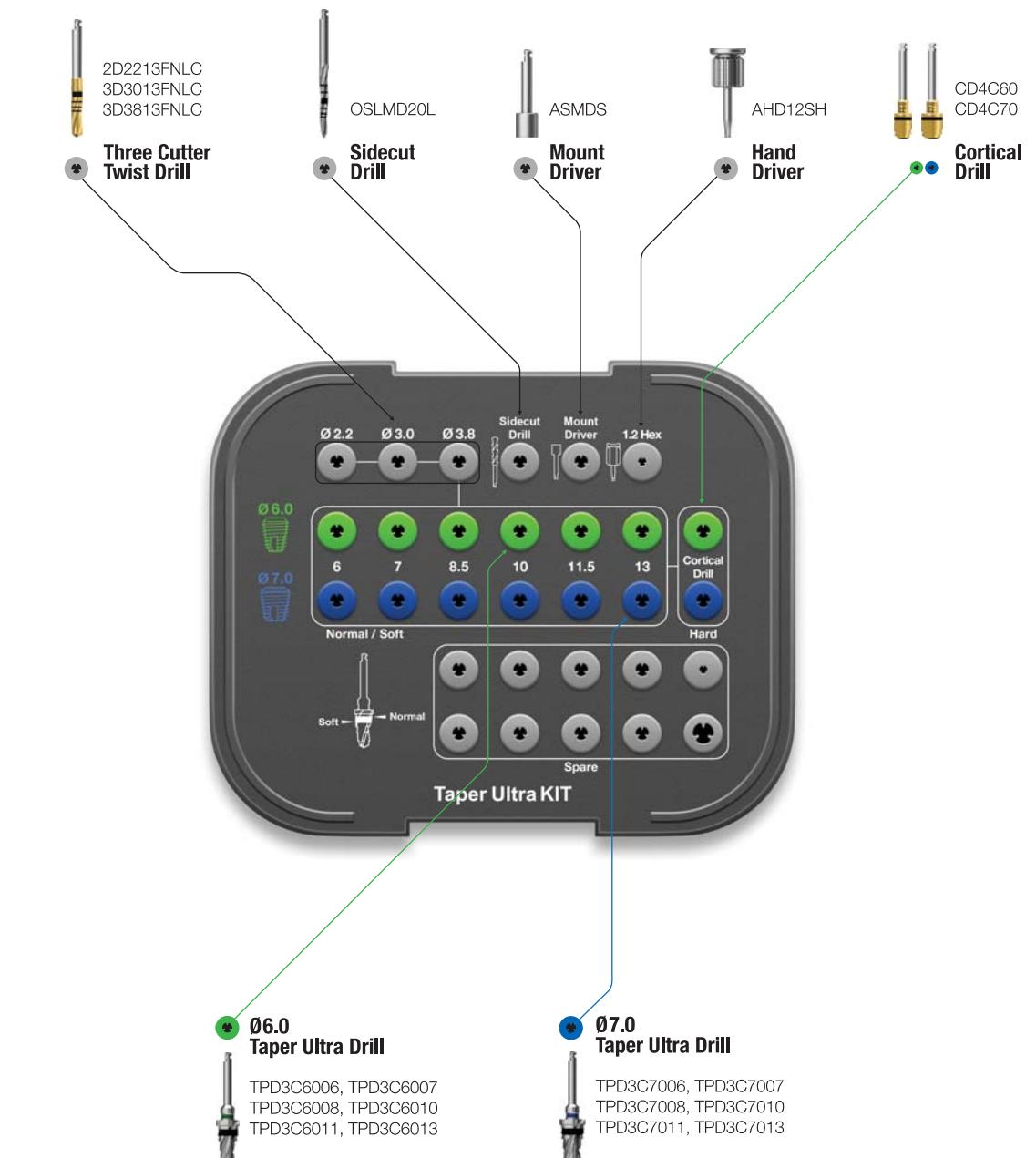


058

OSSTEM KIT

Taper Ultra KIT (HULTPK)

For **Ultra-wide**



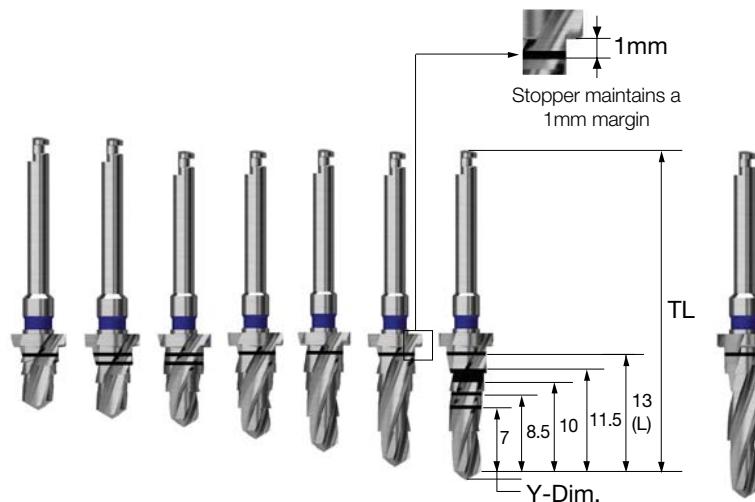
059

OSSTEM KIT

Taper KIT Surgical Instruments

Taper Drill

- Taper drill for taper(III type) fixture by diameter and length
- Stopper drill with 1mm space
- Color coding displays fixture diameter
- F3.5 : yellow, F4.0 : green, F4.5 : blue, F5.0 : red, F5.5 : yellow
- Taper KIT single item (excluded from 122 taper KIT)



L	TL	F3.5	F4.0	F4.5	F5.0	F5.5
	Y-Dim.	0.8	0.9	1.0	1.0	1.0
5.0	29.5	TPD3C3505	TPD3C4005	TPD3C4505	TPD3C5005	-
6.0	30.5	TPD3C3506	TPD3C4006	TPD3C4506	TPD3C5006	TPD3C5506
7.0	31.5	TPD3C3507	TPD3C4007	TPD3C4507	TPD3C5007	TPD3C5507
8.5	33	TPD3C3508	TPD3C4008	TPD3C4508	TPD3C5008	TPD3C5508
10	34.5	TPD3C3510	TPD3C4010	TPD3C4510	TPD3C5010	TPD3C5510
11.5	34.5	TPD3C3511	TPD3C4011	TPD3C4511	TPD3C5011	TPD3C5511
13	36	TPD3C3513	TPD3C4013	TPD3C4513	TPD3C5013	TPD3C5513
15	38	TPD3C3515	TPD3C4015	TPD3C4515	TPD3C5015	TPD3C5515
Color	Yellow	Green	Blue	Red	Yellow	

Taper Cortical Drill for Taper Fixture (TSIII, SSIII, USIII)

- Drill used to remove cortical bone at hard bone (Use immediately after taper drill)
- Dedicated drill for each fixture diameter
- F3.5~5.0 drill marking line : bottom line 8.5mm or less, top line 10mm or more fixture placement standard
- F5.5 drill marking line : bottom line 6mm or less, middle line 7mm, top line 8.5mm or more fixture placement standard
- It is recommended to drill to the bottom of the marking line
- Taper KIT single item (excluded from 122 taper KIT)
- F = Fixture



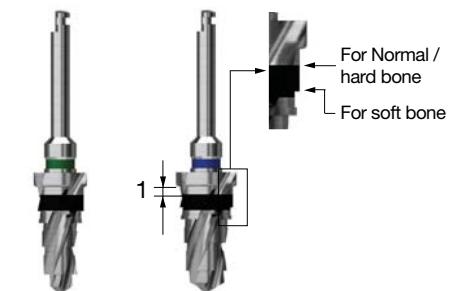
	F3.5	F4.0	F4.5	F5.0	F5.5
	TCD4C35	TCD4C40	TCD4C45	TCD4C50	TCD4C55

Taper Ultra Drill

- Taper drill for taper ultra-wide fixture by diameter and length
- Stopper drill with 1mm space
- Color coding displays fixture diameter
- F = Fixture

L	F6.0	F7.0
6	TPD3C6006	TPD3C7006
7	TPD3C6007	TPD3C7007
8.5	TPD3C6008	TPD3C7008
10	TPD3C6010	TPD3C7010
11.5	TPD3C6011	TPD3C7011
13	TPD3C6013	TPD3C7013

Color Green Blue



Cortical Drill for Ultra-Wide

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

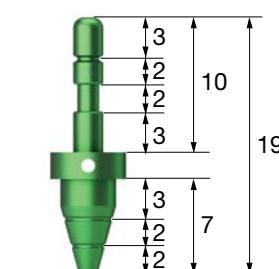
	F6.0	F7.0
	CD4C60	CD4C70



Parallel Pin for Taper Drill

- Parallel pin for taper drill
- Used for checking position and direction of bone preparation
- The lower part is for fixture diameter drill and the upper part is for initial drill
- Color coding by fixture diameter (F3.5 : yellow, F4.0 : green, F4.5 : blue, F5.0 : silver)
- 122 taper & taper KIT common components

	F3.5	F4.0	F4.5	F5.0
	TPP3522	TPP4022	TPP4522	TPP5022

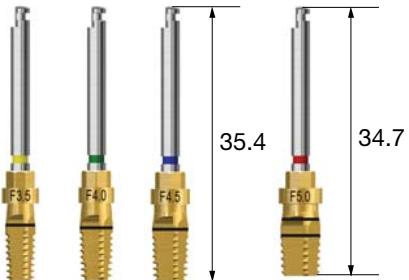




Taper KIT Surgical Instruments

Tapered Fixture Tap for TSIII, USIII, SSIII SA

- Tap for tapered fixture (III type)
- Used in hard bone and forming fixture screw thread
- Engine (25rpm recommended) or torque wrench after mount extension fastening
- Taping to the bottom of the marking line is recommended.
- (for F5.0, the bottom line below 7.0mm fixture and the upper line over 8.5mm fixture placement standard)
- F = Fixture



F3.5	F4.0	F4.5	F5.0
OFTS35	OFTS40	OFTS45	OFTS50

※ Refer to surgical instruments for other components (106p~)

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IMPLANT

Drilling Sequence **Taper Drill**

TSIII | SSIII | USIII

(Length : 10mm)

Taper cortical drill marking line Bottom line 8,5mm or more, top line 10mm 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 bone level, and the soft bone is placed at the bone level to maintain the fixed strength

Fixture tap used in hard bone : engine (25rpm recommended) or torque wrench after mount extension fastening

(F5.0 fixture tap : bottom line 7mm or less, top line 8,5mm or more fixture placement standard)

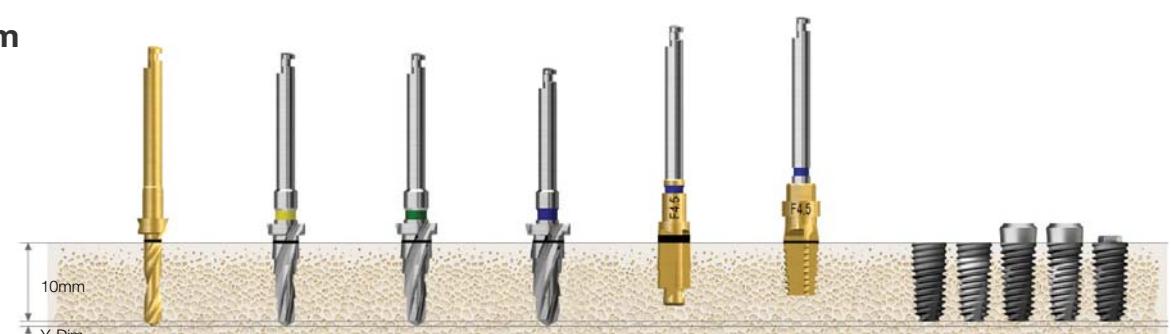
Ø3.0mm



Bone Quality	ø 2.2 Drill	ø 2.7 Drill	F3.0 Cortical Drill	ø 3.0 Fixture
Soft	►			
Normal	►	►		
Hard	►	►	►	

Implant Placement

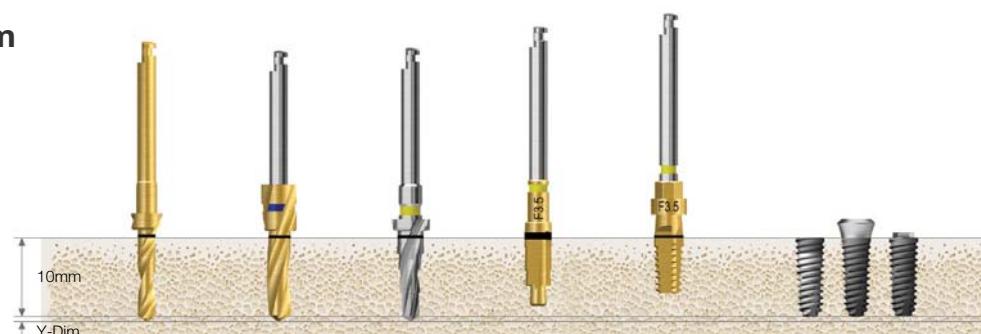
Ø4.5mm



Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	F4.5 Taper Cortical Drill	F4.5 Taper Fixture Tap	ø 4.5 Fixture
Soft	►	►	►				
Normal	►	►		►			
Hard	►	►		►	►		
Hard (Option)	►	►		►		►	

Implant Placement

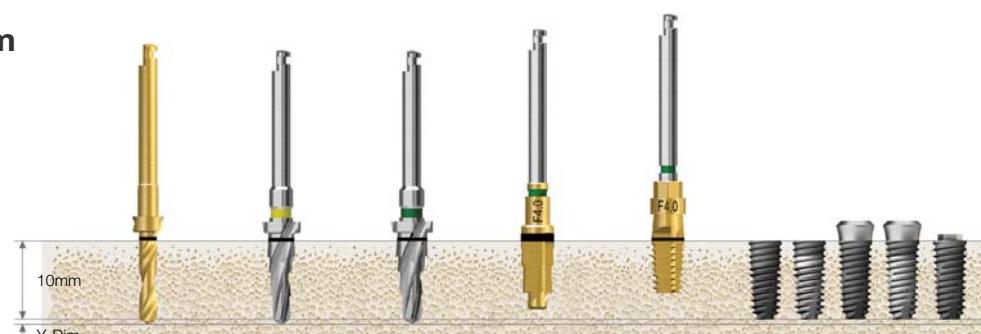
Ø3.5mm



Bone Quality	ø 2.2 Drill	ø 3.0 Drill	F3.5 Taper Drill	F3.5 Taper Cortical Drill	F3.5 Taper Fixture Tap	ø 3.5 Fixture
Soft	►	►				
Normal	►		►			
Hard	►		►	►		
Hard (Option)	►		►		►	

Implant Placement

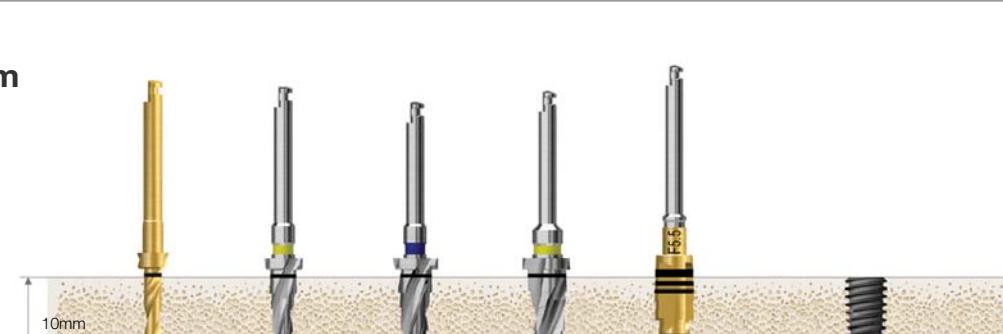
Ø4.0mm



Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.0 Taper Cortical Drill	F4.0 Taper Fixture Tap	ø 4.0 Fixture
Soft	►	►				
Normal	►	►	►			
Hard	►	►	►	►		
Hard (Option)	►	►	►		►	

Implant Placement

Ø5.5mm



Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	F4.5 Taper Drill	F5.5 Taper Drill	F5.5 Taper Fixture Tap	ø 5.5 Fixture
Soft	►	►	►			
Normal	►	►	►	►		
Hard	►	►	►	►	►	

Implant Placement

064

OSSTEM KIT

065

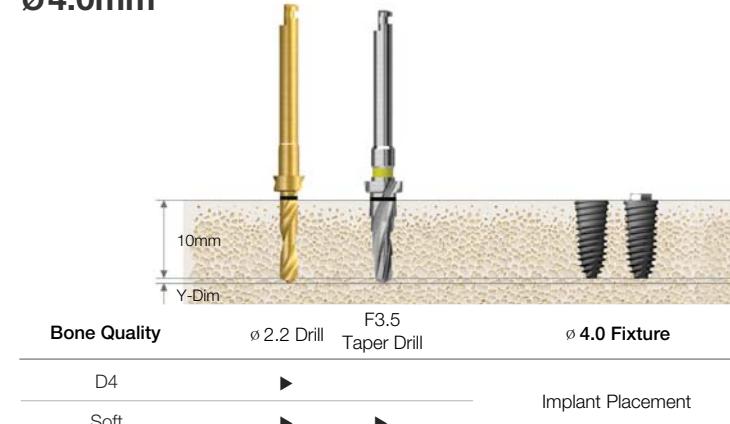
OSSTEM KIT

Drilling Sequence **Taper Drill**

TSIV | USIV

(Length : 10mm)

Ø4.0mm

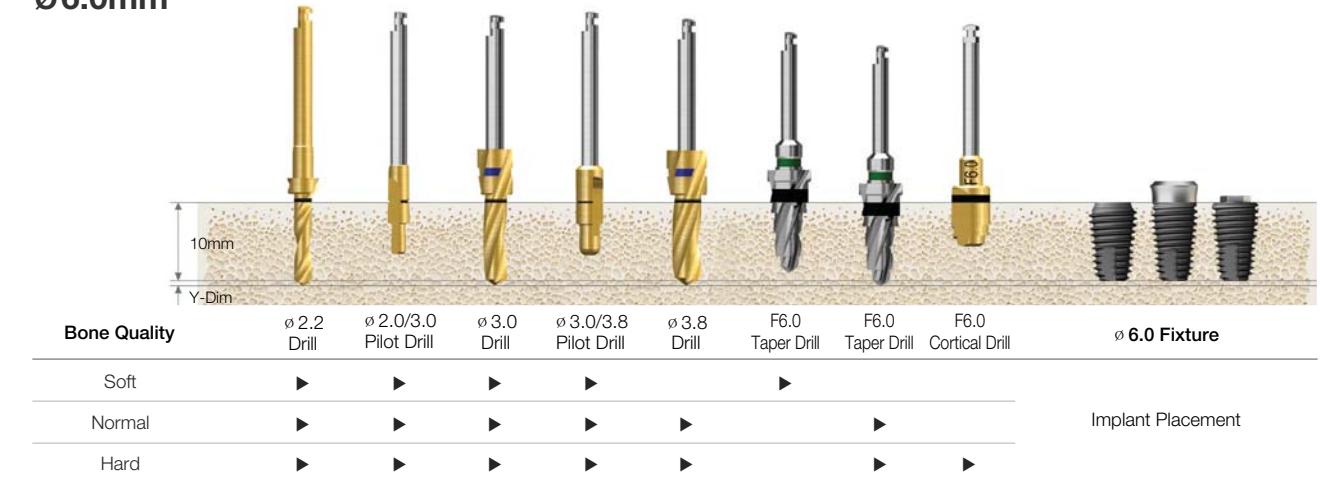


Drilling Sequence **Taper Drill**

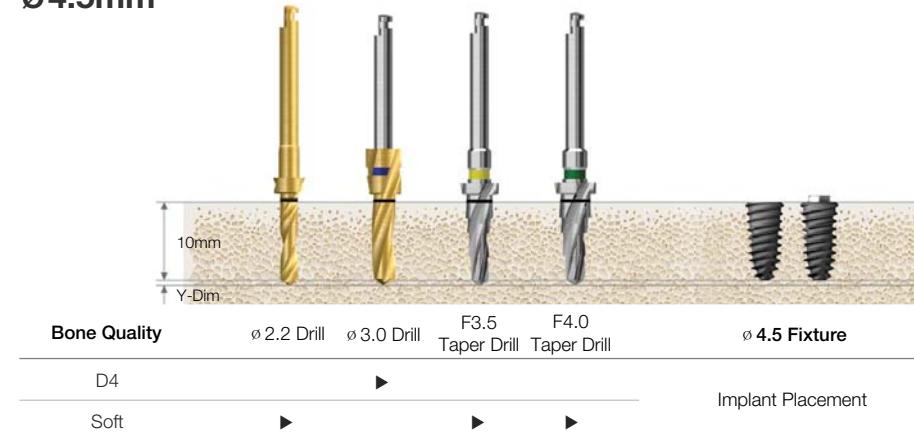
TSIII Ultra-wide | SSIII Ultra-wide | USIII Ultra-wide

(Length : 10mm)

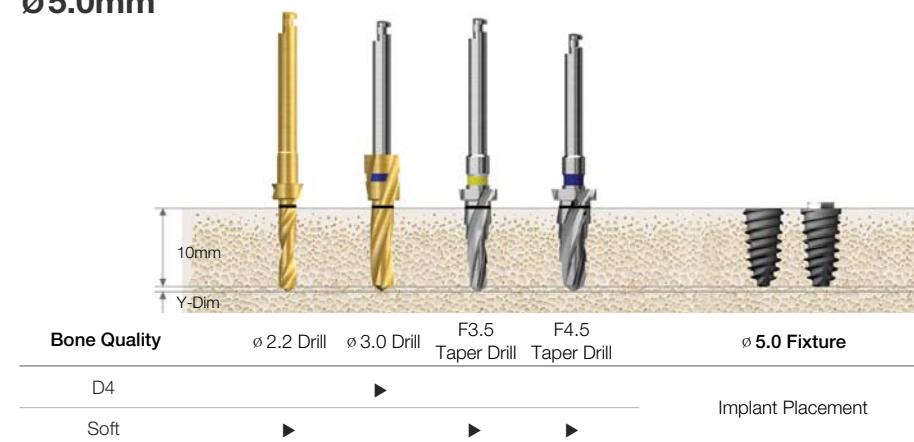
Ø6.0mm



Ø4.5mm



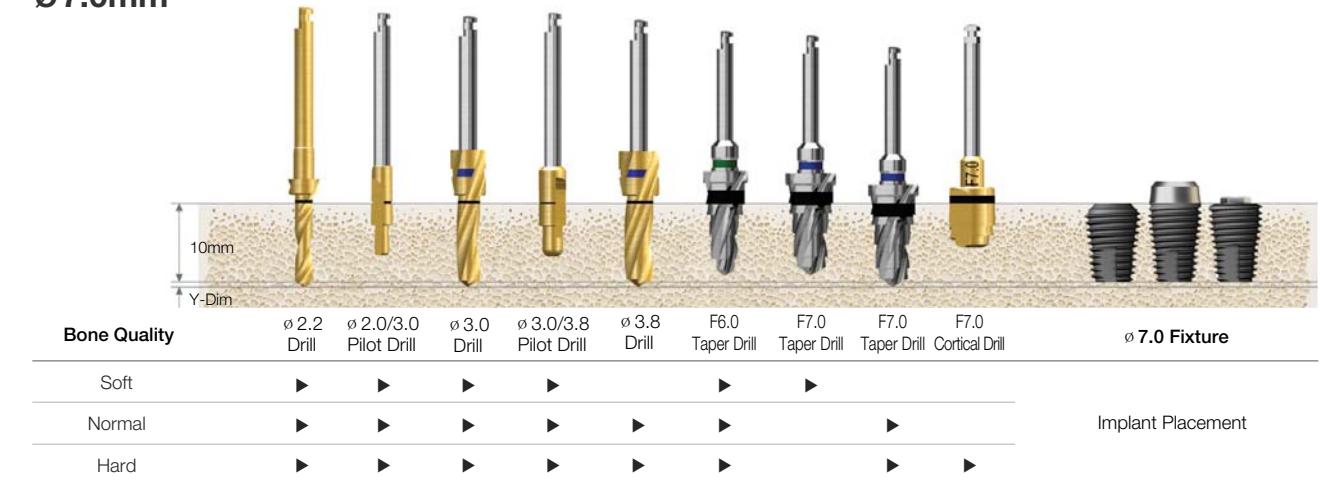
Ø5.0mm



067

OSSTEM KIT

Ø7.0mm



Recommended placement torque Below than 40Ncm

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

066

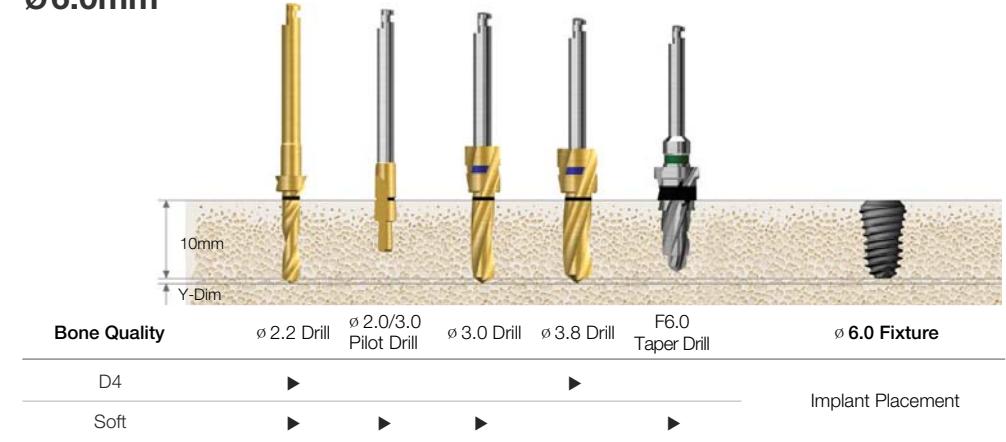
OSSTEM KIT

Drilling Sequence **Taper Drill**

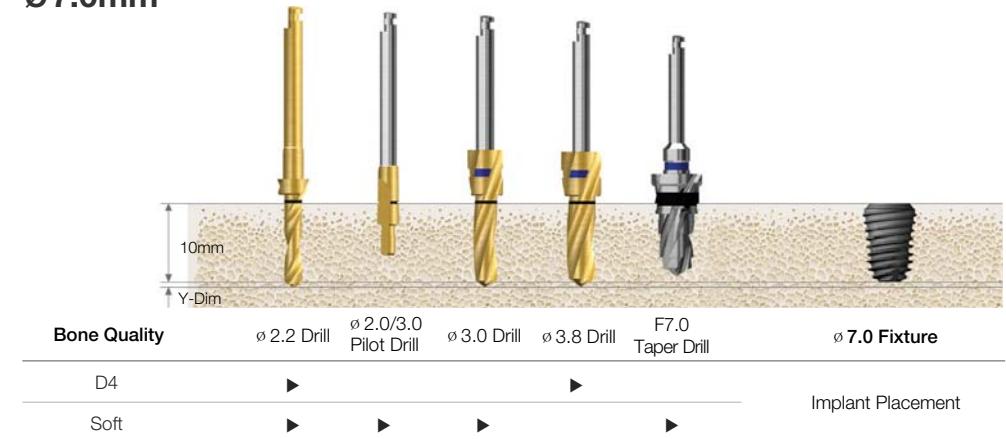
TSIV Ultra-wide

(Length : 10mm)

Ø6.0mm



Ø7.0mm



OSSTEM[®]
IMPLANT

068

OSSTEM KIT

069

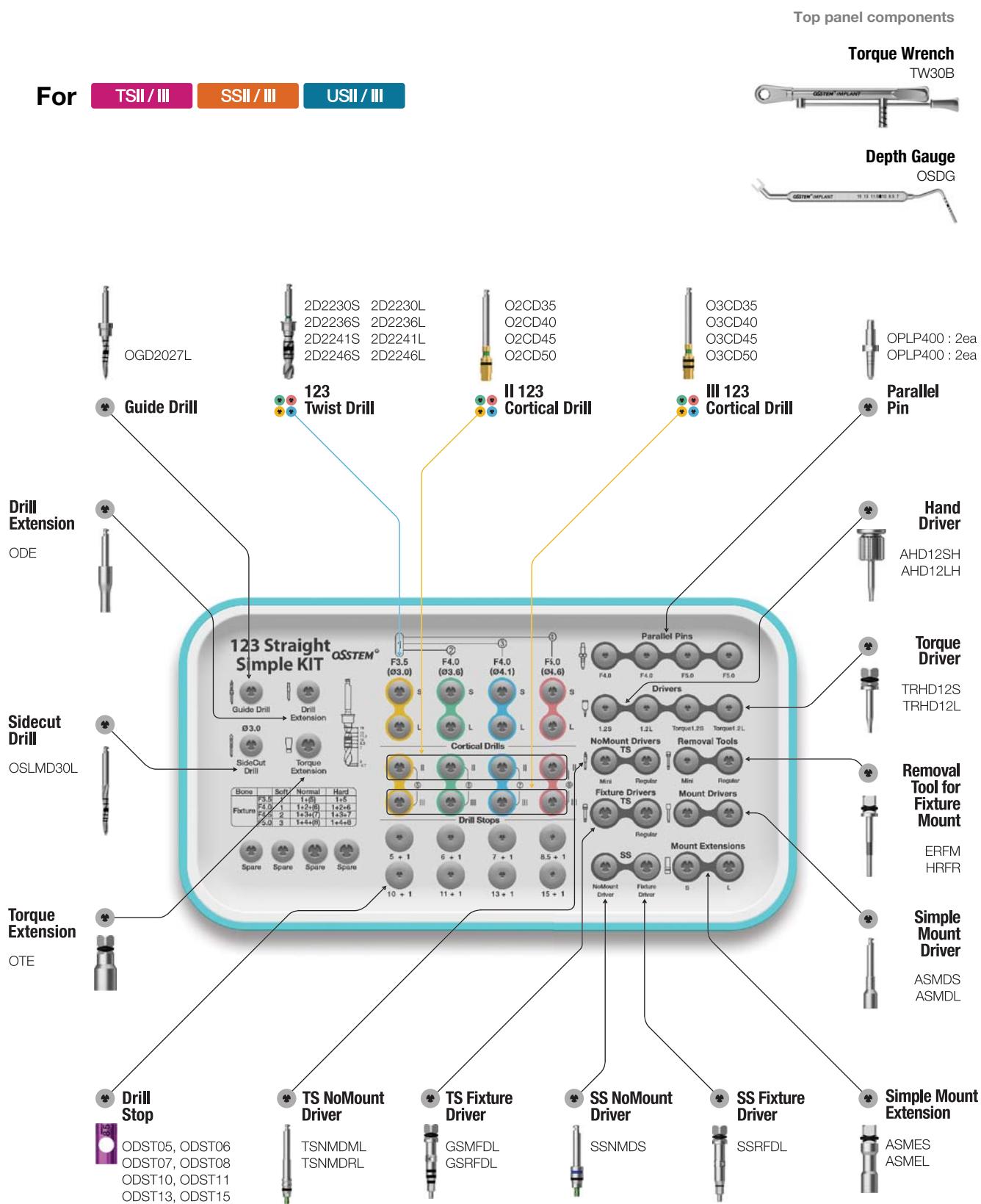
OSSTEM KIT

Recommended placement torque Below than 40Ncm

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

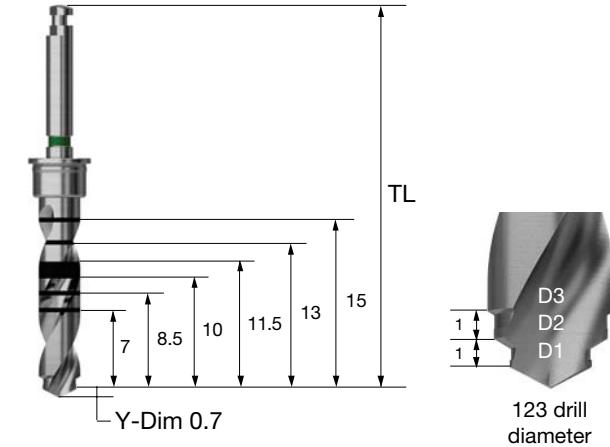
123 Straight Simple KIT (O123K)

For TSII / III SSII / III USII / III



123 Straight Simple KIT Surgical Instruments

123 Twist Drill



- A straight drill (marking drill) that reduces sequences
- 123 drill color coding shows diameter and main fixture used
- Easy to adjust drilling depth as desired by fastening stopper
- Be sure to use stopper as it can be difficult to control the depth due to excellent cutting force
- F = Fixture

	D1 / D2 / D3	F3.5(Ø2.2 / 3.0)	F4.0(Ø3.0 / 3.6)	F4.5(Ø3.0 / 3.6 / 4.1)	F5.0(Ø3.0 / 4.1 / 4.6)
TL		2D2230S	2D3036S	2D3041S	2D3046S
Color	Yellow	2D2230L	2D3036L	2D3041L	2D3046L

123 Drill Stopper

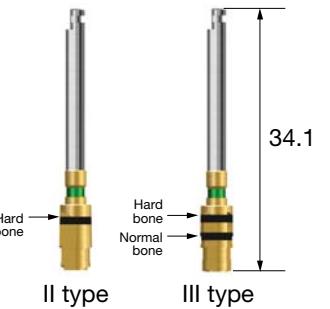
- The stopper number is the length of the tip protruding when drill or instrument is tightened
- Length-based color coding makes it easy to grasp the length



123 Straight Simple KIT Surgical Instruments

123 Cortical Drill

- Drill used to remove cortical bone from hard bone
- Recommend drilling to bottom line of marking line
- II type marking line : hard bone standard
- III type marking line : lower line normal bone, upper line hard bone standard
- IV type marking line : normal bone standard
- Color coding displays diameter and main fixture used
- F = Fixture

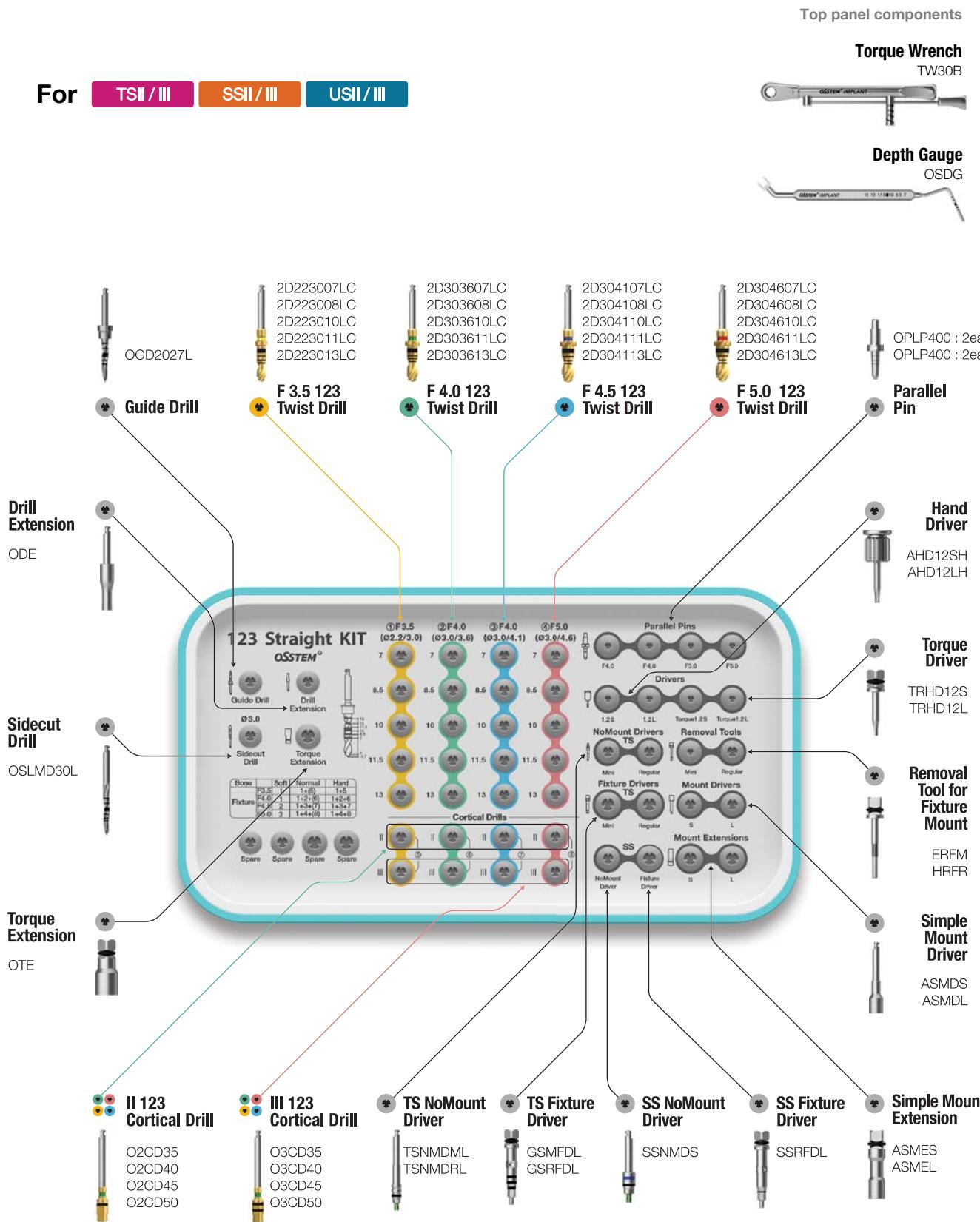


Type \	F3.5	F4.0	F4.5	F5.0
II	O2CD35	O2CD40	O2CD45	O2CD50
III	O3CD35	O3CD40	O3CD45	O3CD50
Color	Yellow	Green	Blue	Red

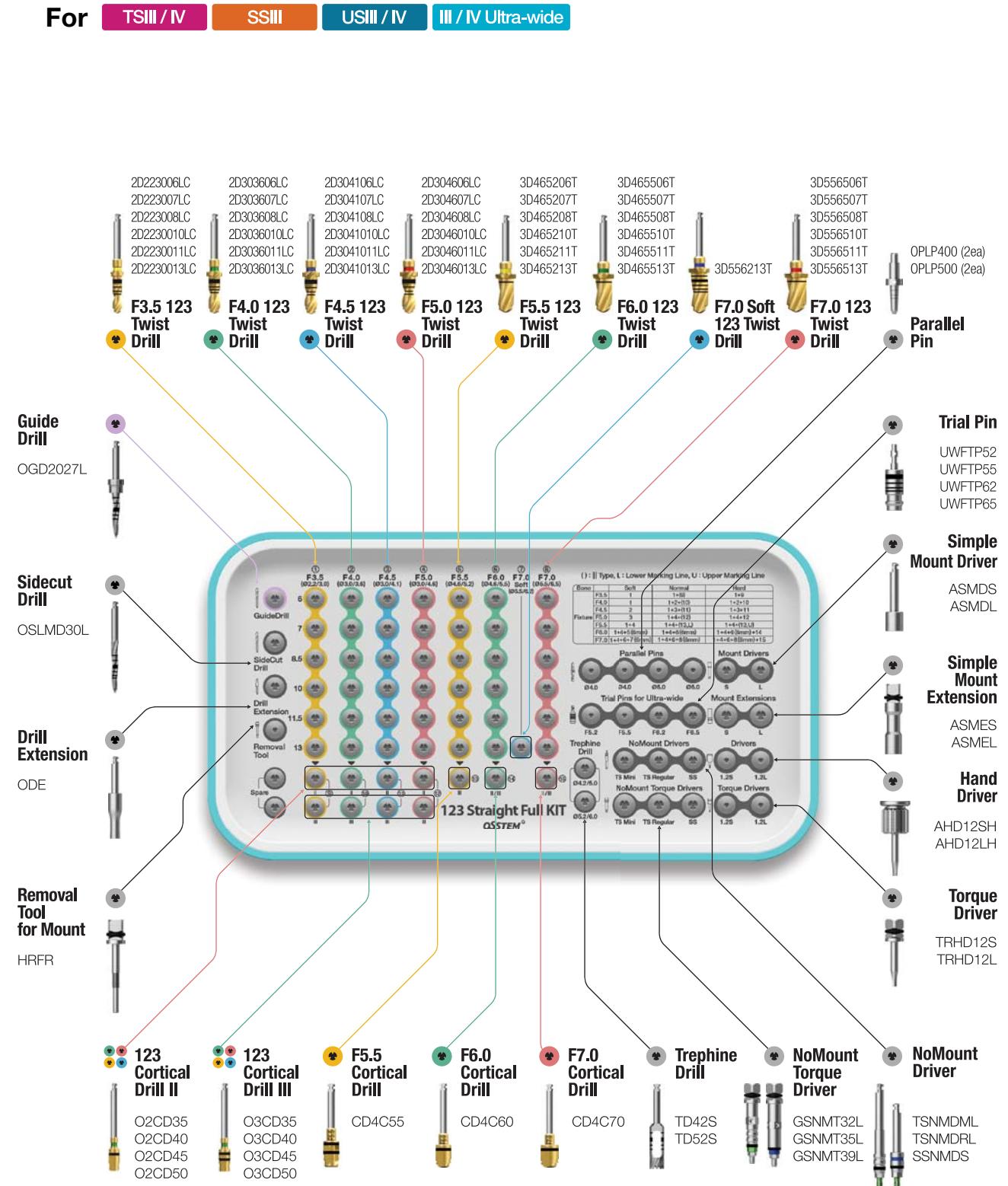
※ Refer to surgical instruments for other components (106p~)

OSSTEM[®]
IMPLANT

123 Straight KIT (O123FK)



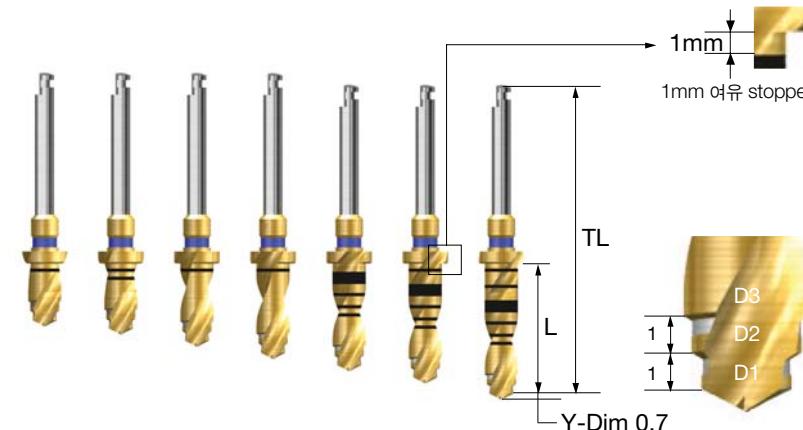
123 Straight Full KIT (O123STFK)



123 Straight KIT Surgical Instruments

123 Twist Drill - Stopper Drill

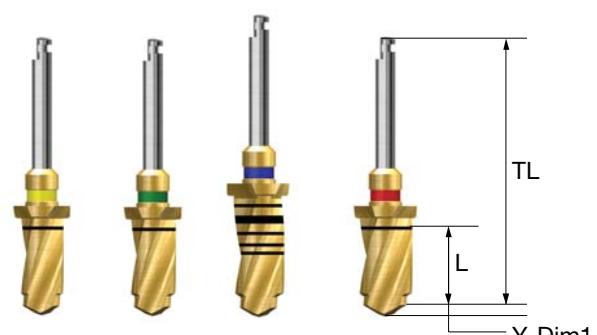
- A straight drill (it has stopper) to shorten the number of drilling
- 123 drill color coding shows diameter and main fixture used
- F = Fixture



L	TL	D1 / D2 / D3 F3.5(Ø2.2/3.0)	F4.0(Ø3.0/3.6)	F4.5(Ø3.0/3.6/4.1)	F5.0(Ø3.0/4.1/4.6)
6	30.5	2D223006LC	2D303606LC	2D304106LC	2D304606LC
7	31.5	2D223007LC	2D303607LC	2D304107LC	2D304607LC
8.5	33	2D223008LC	2D303608LC	2D304108LC	2D304608LC
10	34.5	2D223010LC	2D303610LC	2D304110LC	2D304610LC
11.5	34.5	2D223011LC	2D303611LC	2D304111LC	2D304611LC
13	36	2D223013LC	2D303613LC	2D304113LC	2D304613LC
15	38	2D223015LC	2D303615LC	2D304115LC	2D304615LC
Color		Yellow	Green	Blue	Red

123 Ultra Twist Drill

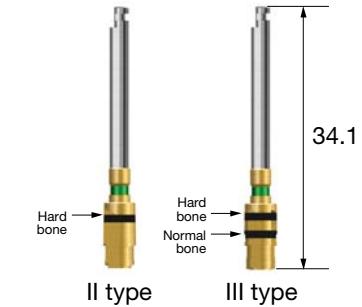
- Two-stage drill with both pilot drill and twist drill
- A straight drill (It has stopper) to shorten the number of drilling
- F7.0 fixture on soft bone uses dedicated drill
- F = Fixture



L	TL	F3.5(Ø4.6/5.2)	F6.0(Ø4.6/5.5)	F7.0 Soft(Ø5.5/6.2)	F7.0(Ø5.5/6.5)
6	30.5	3D465206T	3D465506T	-	3D556506T
7	31.5	3D465207T	3D465507T	-	3D556507T
8.5	33.5	3D465208T	3D465508T	-	3D556508T
10	34.5	3D465210T	3D465510T	-	3D556510T
11.5	34.5	3D465211T	3D465511T	-	3D556511T
13	36.0	3D465213T	3D465513T	3D556213T	3D556513T
Color		Yellow	Green	Blue	Red

123 Cortical Drill

- Drill used to remove cortical bone from hard bone
- Recommend drilling to bottom line of marking line
- II type marking line : hard bone standard
- III type marking line : lower line normal bone, upper line hard bone standard
- IV type marking line : normal bone standard
- Color coding displays diameter and main fixture used
- F = Fixture

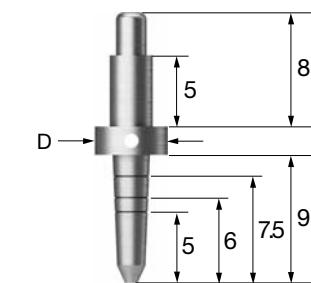


Type	F3.5	F4.0	F4.5	F5.0
II	O2CD35	O2CD40	O2CD45	O2CD50
III	O3CD35	O3CD40	O3CD45	O3CD50
Color	Yellow	Green	Blue	Red

Parallel Pin for 123 Drill

- Parallel pin for 123 twist drill
- Used to check position and orientation of bone preparation
- Lower end for initial drill, upper end for F3.5 (Ø 2.2/3.0) drill

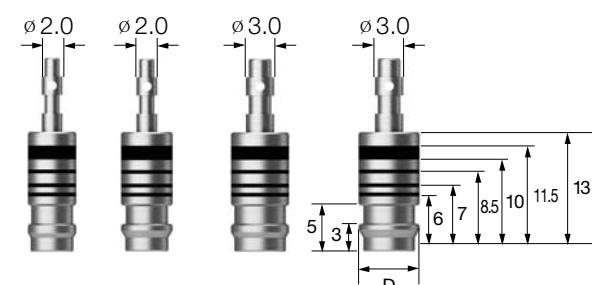
D	Ø4.0	Ø5.0
	OPLP400	OPLP500



Trial Pin for Ultra-wide

- Checking the width and depth inside and outside the failed implant socket
- Use direct drill as final drill and check drilling depth
- Parallel pin purpose

D	Ø5.2	Ø5.5	Ø6.2	Ø6.5
	UWFTP52	UWFTP55	UWFTP62	UWFTP65



※ Refer to surgical instruments for other components (106p~)

Drilling Sequence II Type 123 Twist Drill

TSII | SSII | USII

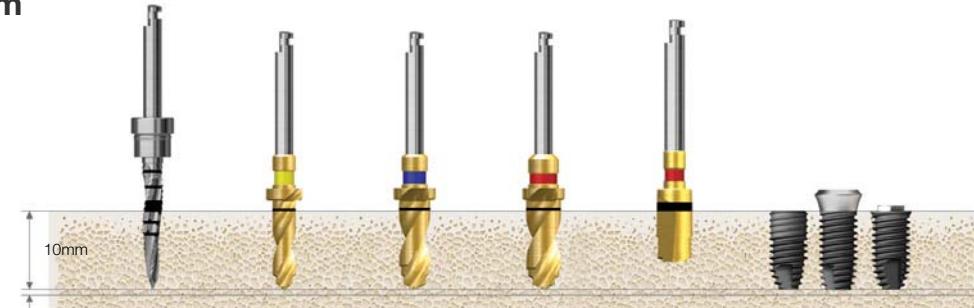
(Length : 10mm)

Ø3.5mm



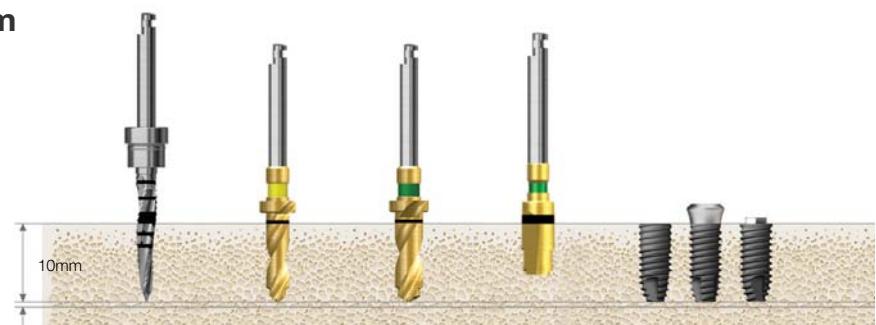
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	Cortical Drill	ø 3.5 Fixture
Soft	►	►		
Normal	►	►		
Hard	►	►	►	

Ø5.0mm



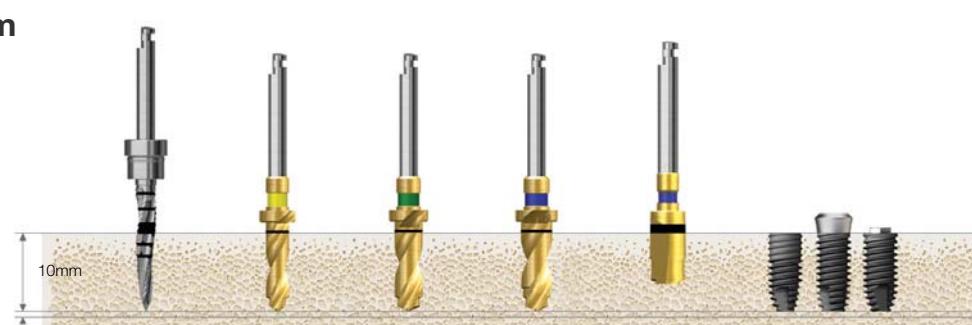
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/4.1 Drill	ø 3.0/4.6 Drill	Cortical Drill	ø 5.0 Fixture
Soft	►		►			
Normal	►	►		►		
Hard	►	►	►	►	►	►

Ø4.0mm



Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/3.6 Drill	Cortical Drill	ø 4.0 Fixture
Soft	►	►			
Normal	►	►	►		
Hard	►	►	►	►	

Ø4.5mm



Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/3.6 Drill	ø 3.0/4.1 Drill	Cortical Drill	ø 4.5 Fixture
Soft	►		►			
Normal	►	►		►		
Hard	►	►	►	►	►	

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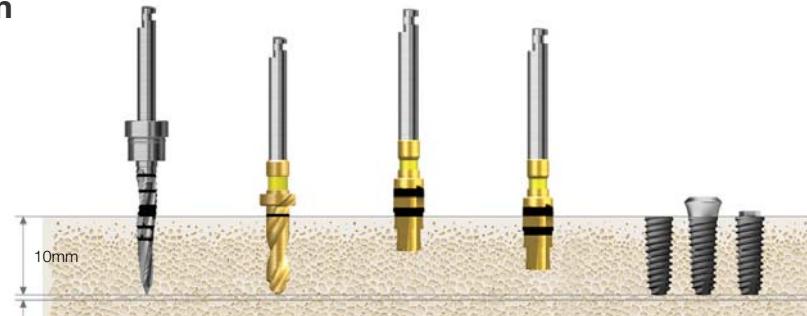


Drilling Sequence III Type 123 Twist Drill

TSIII | SSIII | USIII

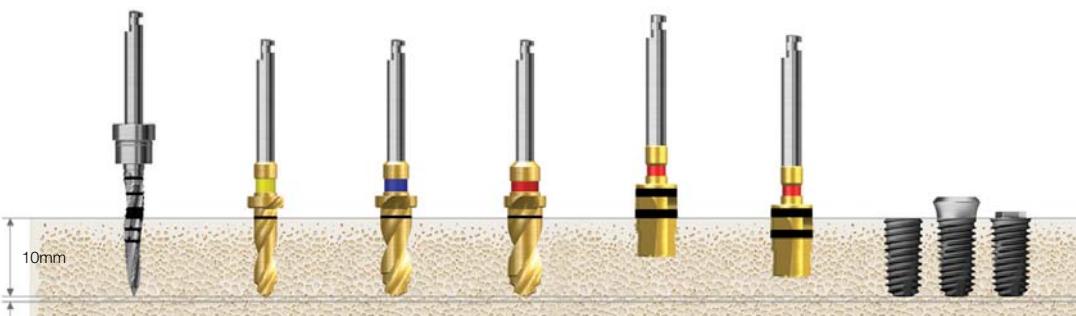
(Length : 10mm)

Ø3.5mm



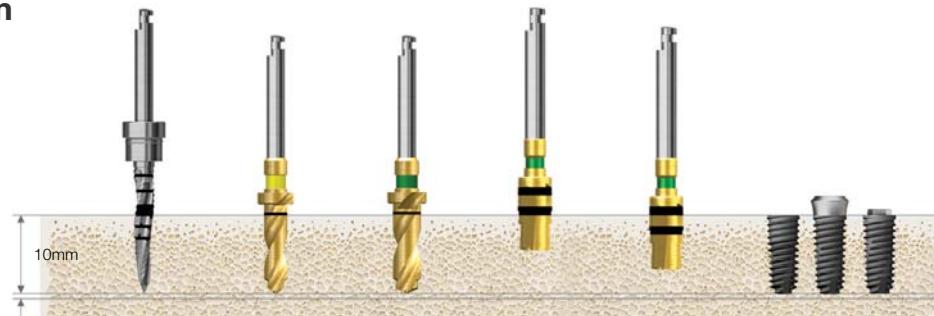
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	F3.5 Cortical Drill (Bottom Line)	F3.5 Cortical Drill (Upper Line)	ø 3.5 Fixture
Soft	►	►			
Normal	►	►	►		
Hard	►	►		►	

Ø5.0mm



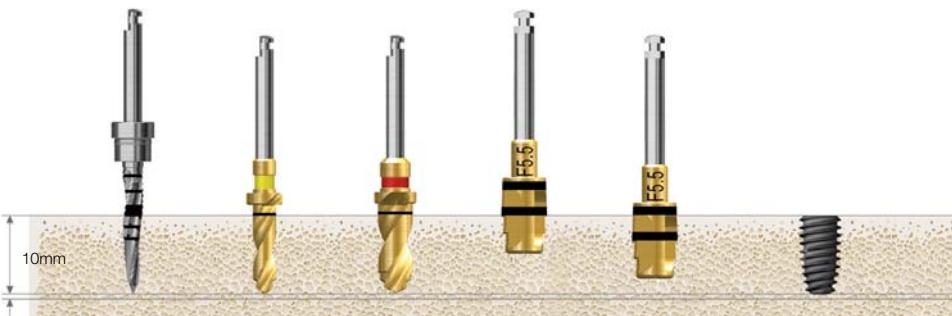
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/4.1 Drill	ø 3.0/4.6 Drill	F5.0 Cortical Drill (Bottom Line)	F5.0 Cortical Drill (Upper Line)	ø 5.0 Fixture
Soft	►		►				
Normal	►	►		►	►		
Hard	►	►		►		►	

Ø4.0mm



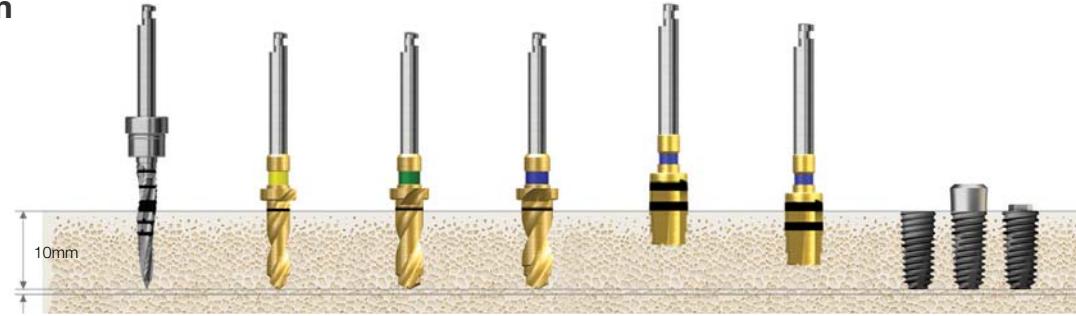
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/3.6 Drill	F4.0 Cortical Drill (Bottom Line)	F4.0 Cortical Drill (Upper Line)	ø 4.0 Fixture
Soft	►	►				
Normal	►	►	►	►		
Hard	►	►	►		►	

Ø5.5mm



Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/4.6 Drill	F5.5 Cortical Drill (Bottom Line)	F5.5 Cortical Drill (Upper Line)	ø 5.5 Fixture
Soft	►	►	►			
Normal	►	►	►		►	
Hard	►	►	►		►	

Ø4.5mm



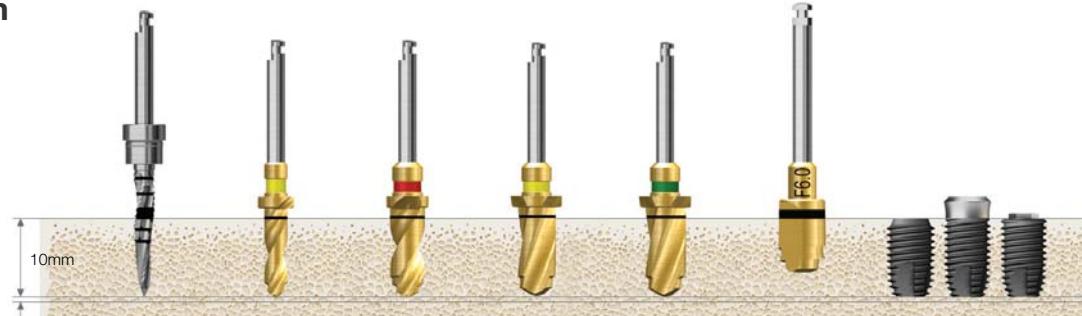
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/3.6 Drill	ø 3.0/4.1 Drill	F4.5 Cortical Drill (Bottom Line)	F5.0 Cortical Drill (Upper Line)	ø 4.5 Fixture
Soft	►		►				
Normal	►	►		►	►		
Hard	►	►		►		►	

Drilling Sequence Ultra-wide 123 Twist Drill

TSII Ultra-wide | SSII Ultra-wide | USII Ultra-wide

(Length : 10mm)

$\varnothing 6.0\text{mm}$



Bone Quality	Guide Drill	$\varnothing 2.0/3.0$ Drill	$\varnothing 3.0/4.6$ Drill	$\varnothing 4.6/5.2$ Drill	$\varnothing 4.6/5.5$ Drill	F6.0 Cortical Drill	$\varnothing 6.0$ Fixture
Soft	►	►	►	►			
Normal	►	►	►		►		
Hard	►	►	►		►	►	

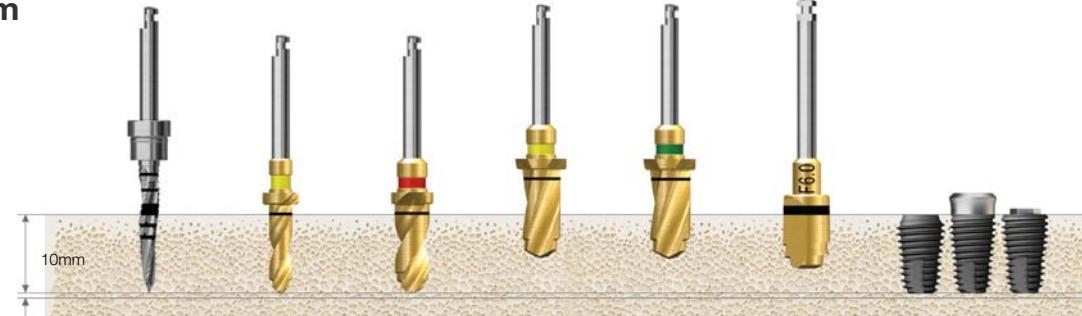
Implant Placement

Drilling Sequence Ultra-wide 123 Twist Drill

TSIII Ultra-wide | SSIII Ultra-wide | USIII Ultra-wide

(Length : 10mm)

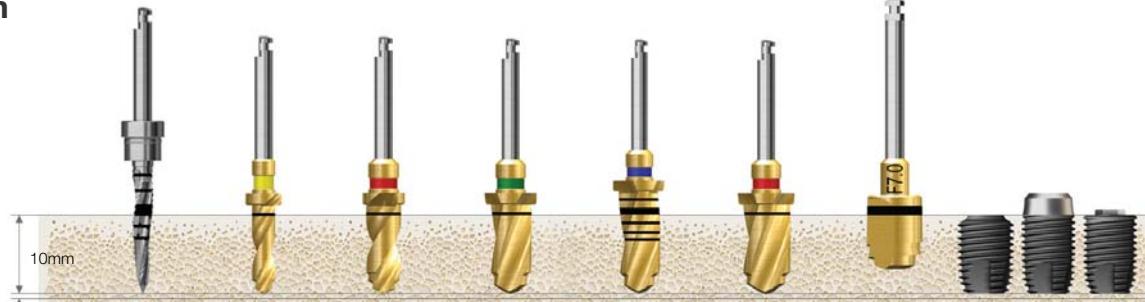
$\varnothing 6.0\text{mm}$



Bone Quality	Guide Drill	$\varnothing 2.0/3.0$ Drill	$\varnothing 3.0/4.6$ Drill	$\varnothing 4.6/5.2$ Drill	$\varnothing 4.6/5.5$ Drill	F6.0 Cortical Drill	$\varnothing 6.0$ Fixture
Soft	►	►	►	►(6mm)			
Normal	►	►	►		►(6mm)		
Hard	►	►	►		►(6mm)	►	

Implant Placement

$\varnothing 7.0\text{mm}$



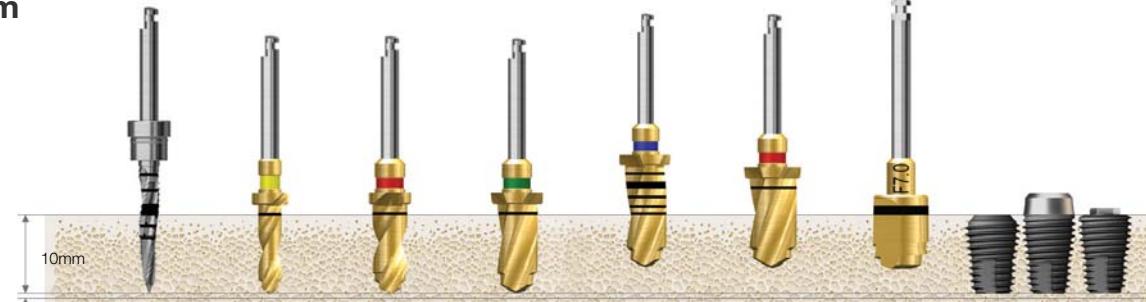
Bone Quality	Guide Drill	$\varnothing 2.0/3.0$ Drill	$\varnothing 3.0/4.6$ Drill	$\varnothing 4.6/5.5$ Drill	$\varnothing 5.5/6.2$ Drill (F7.0 Soft)	$\varnothing 5.5/6.5$ Drill	F7.0 Cortical Drill	$\varnothing 7.0$ Fixture
Soft	►	►	►	►	►			
Normal	►	►	►	►		►		
Hard	►	►	►	►		►	►	

Implant Placement

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$\varnothing 7.0\text{mm}$



Bone Quality	Guide Drill	$\varnothing 2.0/3.0$ Drill	$\varnothing 3.0/4.6$ Drill	$\varnothing 4.6/5.5$ Drill	$\varnothing 5.5/6.2$ Drill (F7.0 Soft)	$\varnothing 5.5/6.5$ Drill	F7.0 Cortical Drill	$\varnothing 7.0$ Fixture
Soft	►	►	►	►	►(6mm)			
Normal	►	►	►	►		►(6mm)		
Hard	►	►	►	►		►(6mm)	►	

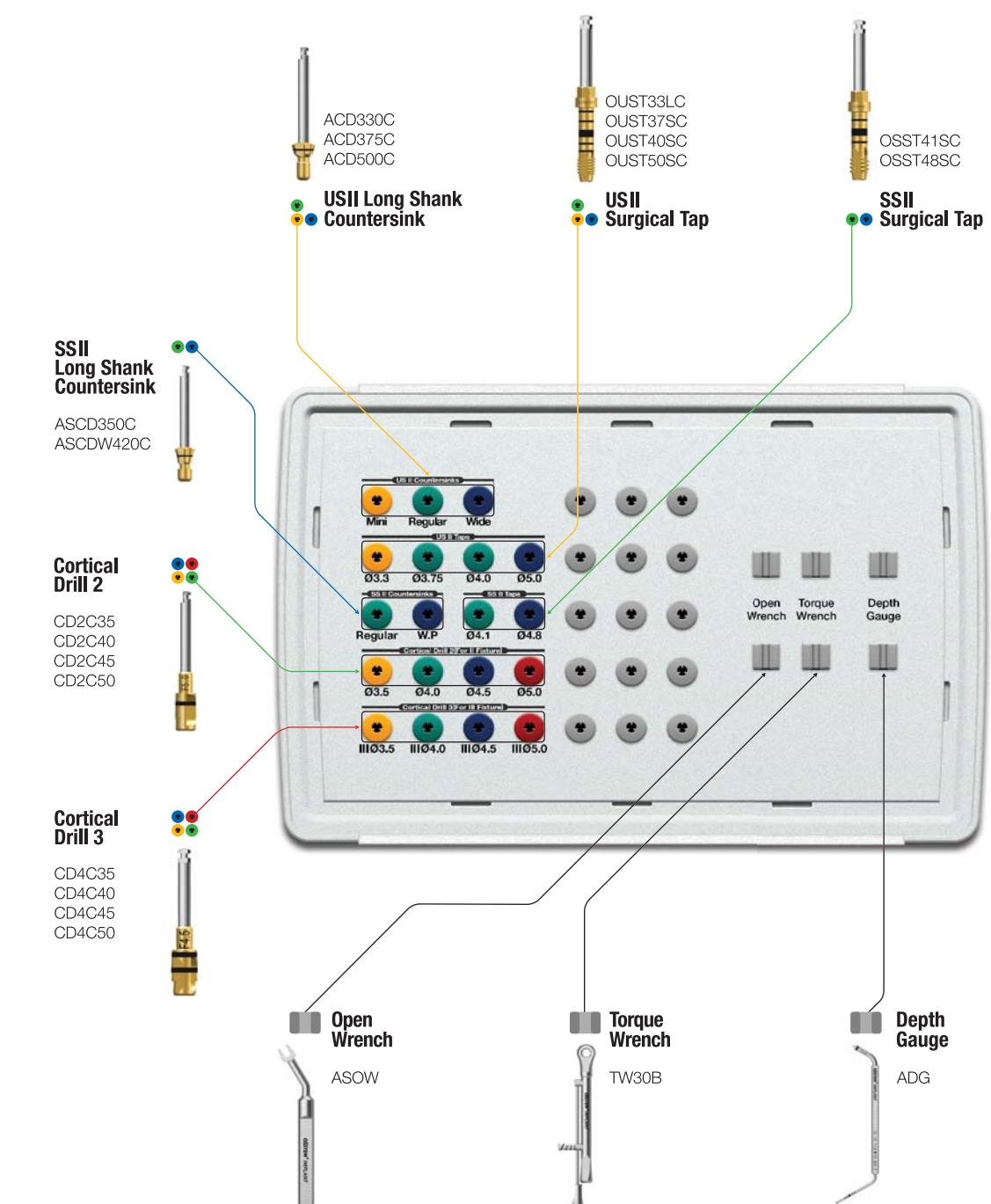
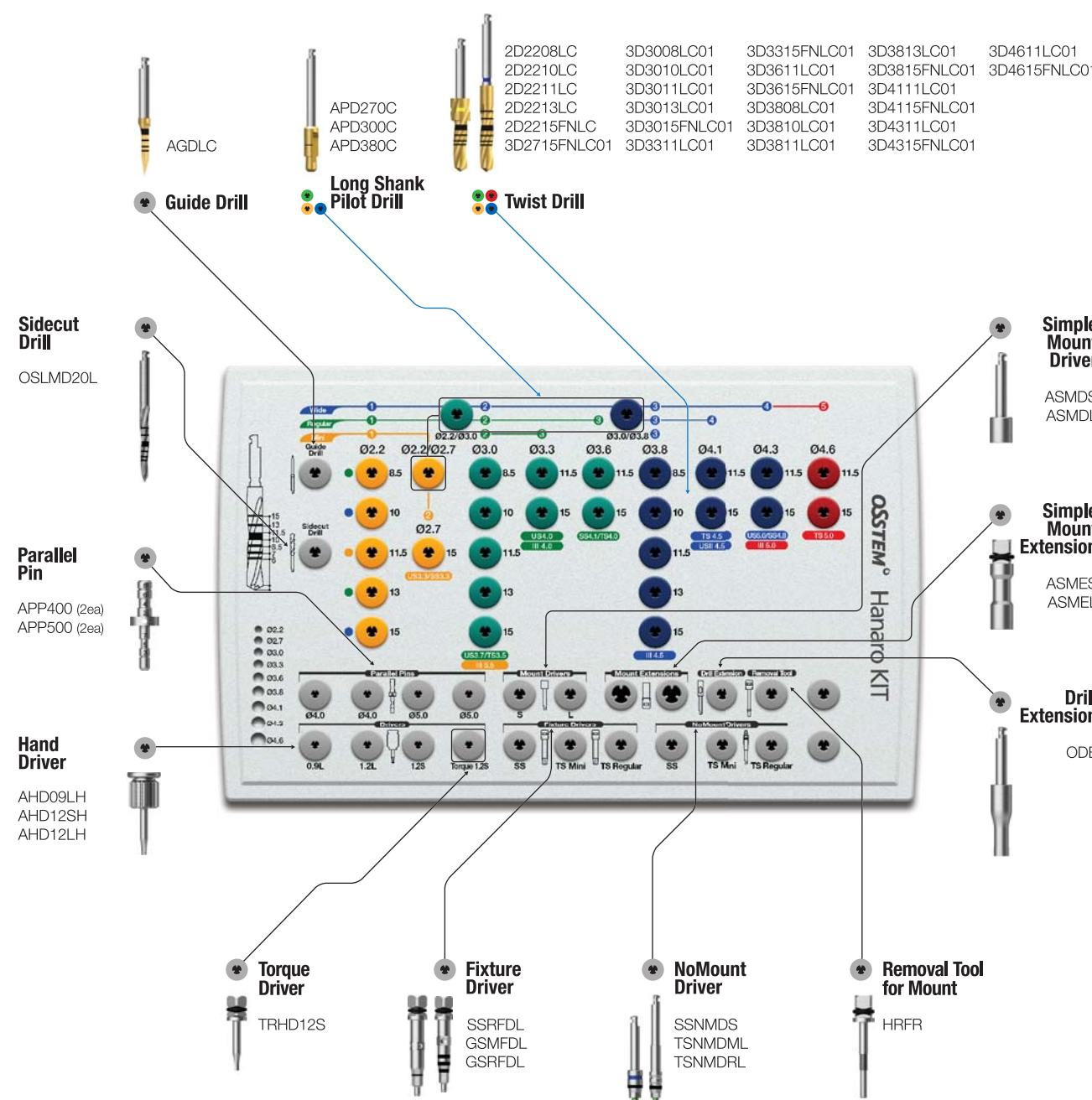
Implant Placement

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OSSTEM KIT

New Hanaro KIT (HKA2)

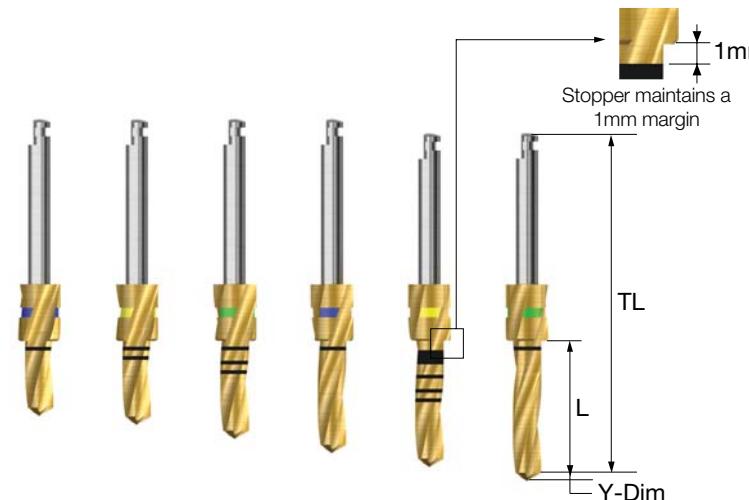
For TSII / III SSII / III USII / III



New Hanaro KIT Surgical Instruments

Twist Drill - Stopper Drill

- Long stopper (6mm)
- can be performed without drill extension in posterior surgery
- Color coding of stopper part shows drill length

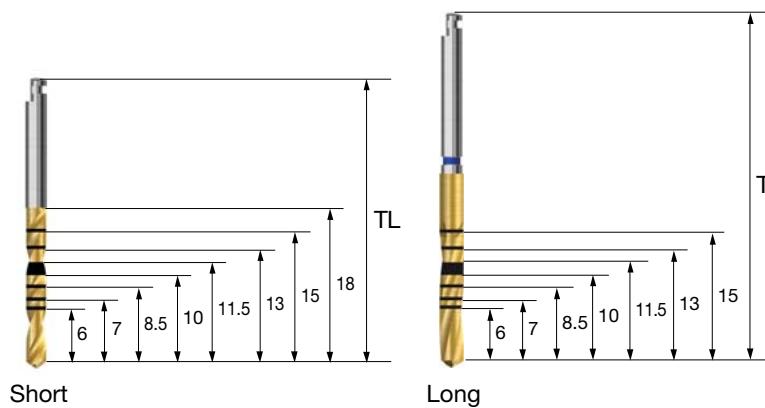


L	TL	D	$\varnothing 2.2$	$\varnothing 3.0$	$\varnothing 3.3$	$\varnothing 3.6$	$\varnothing 3.8$	$\varnothing 4.1$	$\varnothing 4.3$	$\varnothing 4.6$
		Y-Dim	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0
6	30.5	2D2206LC	3D3006LC	-	-	3D3806LC	-	-	-	-
7	31.5	2D2207LC01	3D3007LC01	-	-	3D3807LC01	-	-	-	-
8.5	33	2D2208LC01	3D3008LC01	-	-	3D3808LC01	-	-	-	-
10	34.5	2D2210LC01	3D3010LC01	-	-	3D3810LC01	-	-	-	-
11.5	34.5	2D2211LC01	3D3011LC01	3D3311LC01	3D3611LC01	3D3811LC01	3D4111LC01	3D4311LC01	3D4611LC01	
13	36	2D2213LC01	3D3013LC01	-	-	3D3813LC01	-	-	-	-

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Twist Drill - Non Stopper Drill

- Used when the accessibility of the stopper drill is low
- Short and long laser marked drills are available



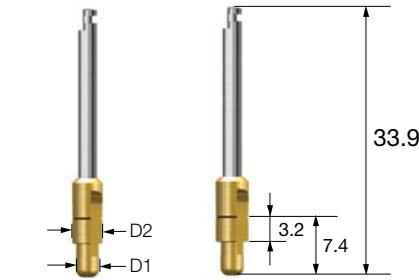
TL \ D	$\varnothing 1.5$	$\varnothing 2.0$	$\varnothing 2.2$	$\varnothing 2.7$	$\varnothing 3.0$	$\varnothing 3.3$
33	2D1518FNLC	2D2018FNLC	2D2218FNLC	3D2718FNLC	3D3018FNLC	3D3318FNLC
41	-	-	2D2215FNLC01	3D2715FNLC01	3D3015FNLC01	3D3315FNLC01
TL \ D	$\varnothing 3.6$	$\varnothing 3.8$	$\varnothing 4.1$	$\varnothing 4.3$	$\varnothing 4.6$	
33	3D3618FNLC	3D3818FNLC	3D4118FNLC	3D4318FNLC	3D4618FNLC	
41	3D3615FNLC01	3D3815FNLC01	3D4115FNLC01	3D4315FNLC01	3D4615FNLC01	

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Long Shank Pilot Drill

- Corrects the drilling path
- Maintains the path of the previous drilling sequence

D1 / D2	$\varnothing 2.0 / 2.7$	$\varnothing 2.0 / 3.0$	$\varnothing 3.0 / 3.8$	$\varnothing 3.0 / 4.1$
	APD270C	APD300C	APD380C	APD410C



Cortical Drill 2 for TSII, SSII SA

- Trims cortical bone in hard bone cases (for type II)
- Drill specifically for type II fixture's unique diameter
- Recommend drilling until reaching the bottom of the marker
- F = Fixture

F3.5	F4.0	F4.5	F5.0
CD2C35	CD2C40	CD2C45	CD2C50



087

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Cortical Drill 3 for Taper Fixture (TSIII, SSIII, USIII)

- Use after straight drill to expand cortical bone
- In normal to hard bone, used as the final drill
- Drill specifically for type III fixture's unique diameter
- The lower marker is for normal bone, the upper is for hard bone
- Recommend drilling until reaching the bottom of the marker

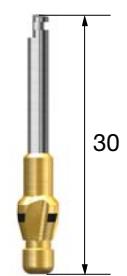
F3.0	F3.5	F4.0	F4.5	F5.0	F5.5
CD4C30	CD4C35	CD4C40	CD4C45	CD4C50	CD4C55



Countersink for USIII, USII SA, USIII SA (Wide PS, Wide)

- Drill specifically for USIII, USII SA, and USIII SA Wide PS and wide type fixtures
- Recommended drilling speed : 300rpm

USSCS45W



New Hanaro KIT Surgical Instruments

Straight Fixture Tap for TSII, USII, SSII SA

- Tap for straight body fixtures (type II)
- For hard bone, taps osteotomy creating fixture thread shape
- Recommended speed : 25rpm or hand torque
- Recommended tapping until reaching the bottom of the marker
- F = Fixture



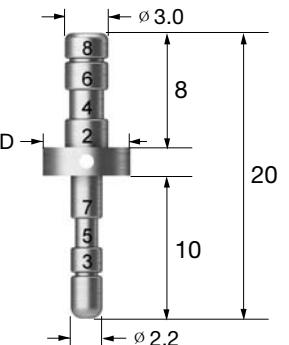
	F3.5	F4.0	F4.5	F5.0
	O2FTS35	O2FTS40	O2FTS45	O2FTS50

Parallel Pin

- Identifies the direction and location of the osteotomy

	D	Ø4.0	Ø5.0	Ø6.0	Full Set
		APP400	APP500	APP600	APPS

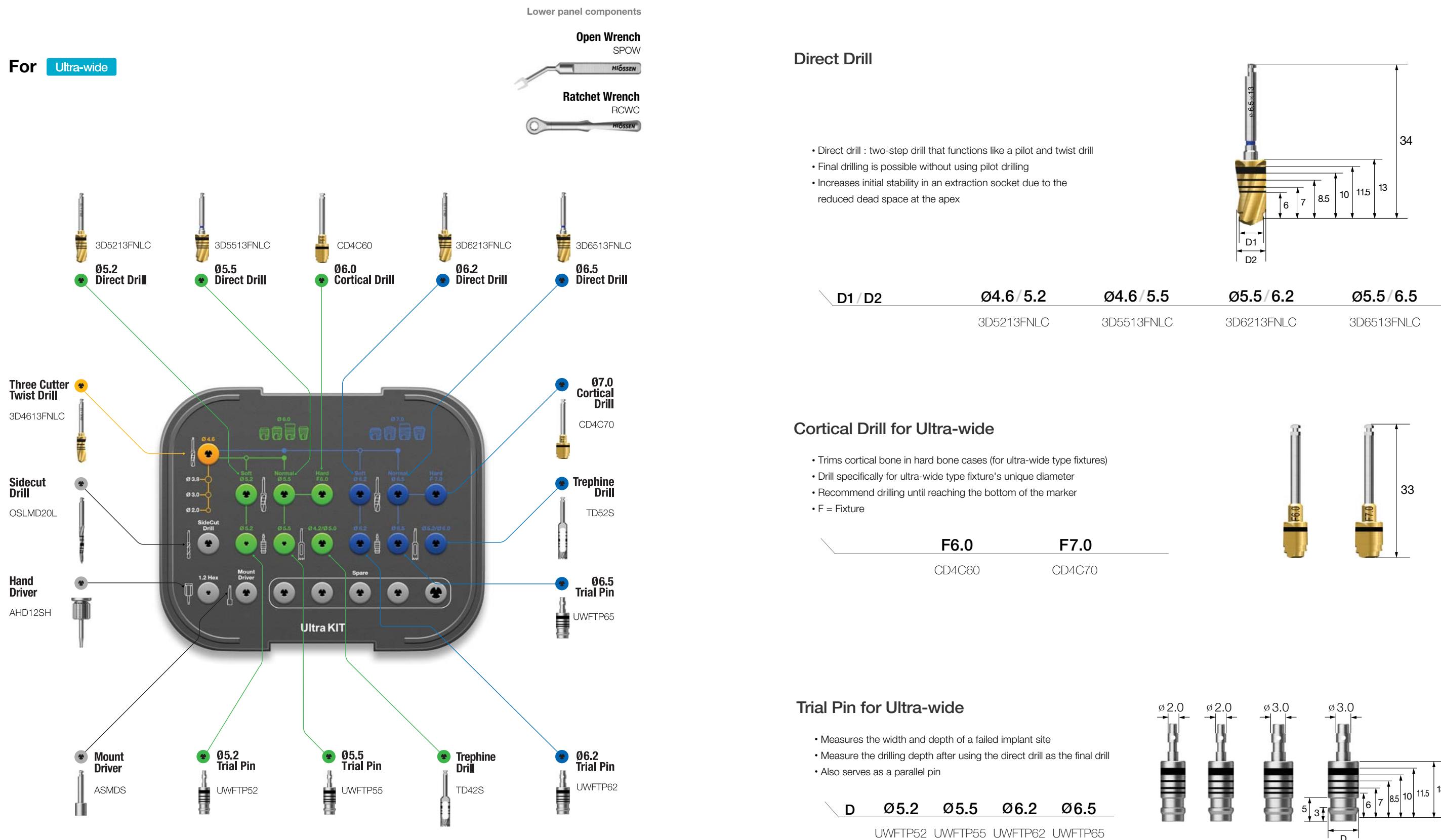
※ Refer to surgical instruments for other components (106p~)



OSSTEM[®]
IMPLANT

Ultra KIT (HULTRK)

Ultra KIT Surgical Instruments



* Refer to surgical instruments for other components (106p~)

Drilling Sequence II Type Straight Drill

TSII | SSII | USII

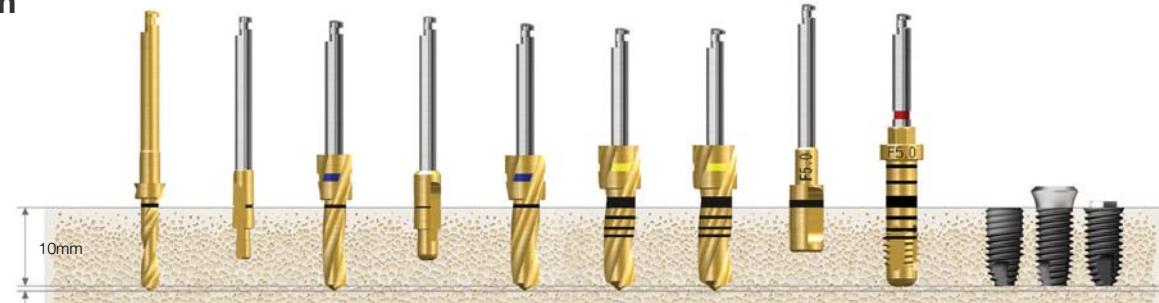
(Length : 10mm)

Ø3.5mm



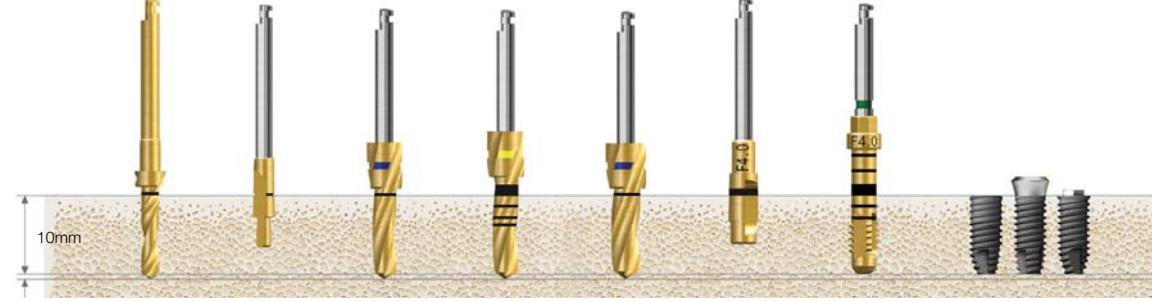
Bone Quality	ø 2.2 Drill	ø 2.7 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.5 Cortical Drill	F3.5 Straight Fixture Tap	ø 3.5 Fixture
Soft	►	►					
Normal	►		►	►			
Hard	►		►	►	►		
Hard (Option)	►		►	►		►	

Ø5.0mm



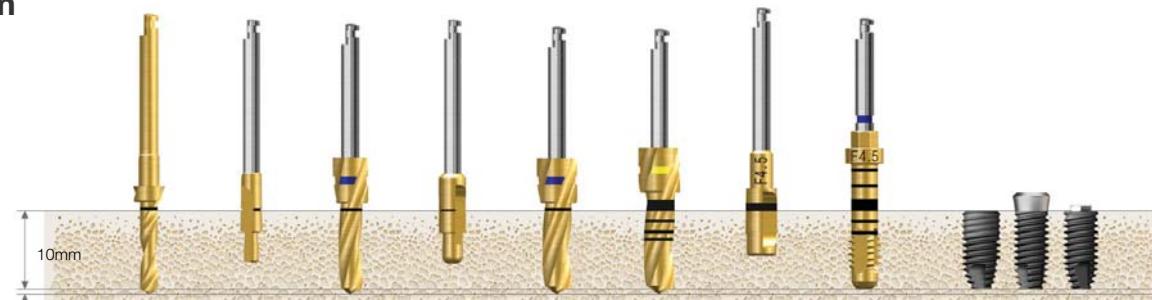
Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.0/3.8 Pilot Drill	ø 3.8 Drill	ø 4.3 Drill	ø 4.6 Drill	F5.0 Cortical Drill	F5.0 Straight Fixture Tap	ø 5.0 Fixture
Soft	►	►	►	►	►	►	►			
Normal	►	►	►	►	►		►			
Hard	►	►	►	►	►		►	►		
Hard (Option)	►	►	►	►	►		►			►

Ø4.0mm



Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.3 Drill	ø 3.8 Drill	ø 4.0 Cortical Drill	F4.0 Straight Fixture Tap	ø 4.0 Fixture
Soft	►	►	►	►				
Normal	►	►	►		►			
Hard	►	►	►		►	►		
Hard (Option)	►	►	►		►		►	

Ø4.5mm



Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.0/3.8 Pilot Drill	ø 3.8 Drill	ø 4.1 Drill	ø 4.5 Cortical Drill	F4.5 Straight Fixture Tap	ø 4.5 Fixture
Soft	►	►	►	►	►				
Normal	►	►	►	►	►	►			
Hard	►	►	►	►	►	►	►		
Hard (Option)	►	►	►	►	►	►		►	

Recommended insertion torque $\leq 40\text{Ncm}$

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

In hard bone, recommended speed is 25rpm or use of torque wrench with mount extension

Drilling Sequence III Type Straight Drill

TSIII | SSIII | USIII

(Length : 10mm)



Bone Quality	Ø 2.2 Drill	Ø 2.7 Drill	F3.0 Cortical Drill 2	Ø 3.0 Fixture
Soft	►			
Normal	►	►		Implant Placement
Hard	►	►	►	

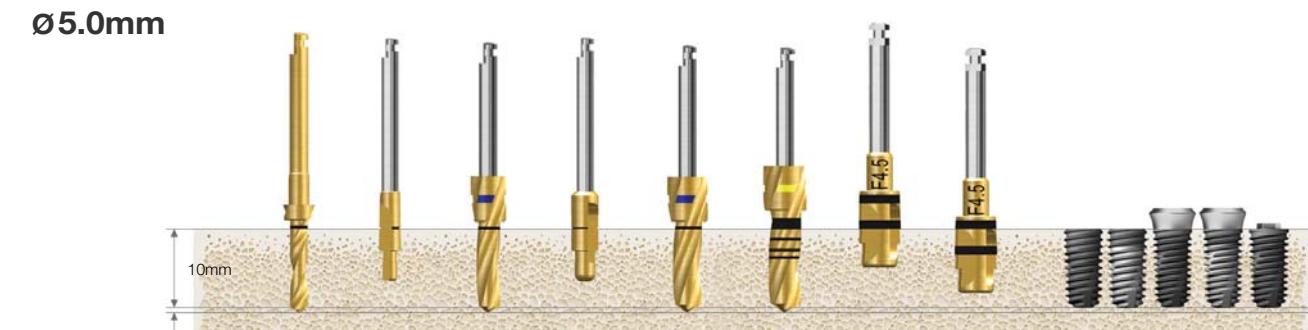
Recommended insertion torque $\leq 40\text{Ncm}$, for the TSIII/SSIII HA : $\leq 35\text{Ncm}$ (the HA coating can fracture and flake off when placed in hard bone)
 TS fixture insertion depth The normal/hard bone is placed 1mm deeper than the bone level, and the soft bone is placed at the bone level to maintain the fixed strength



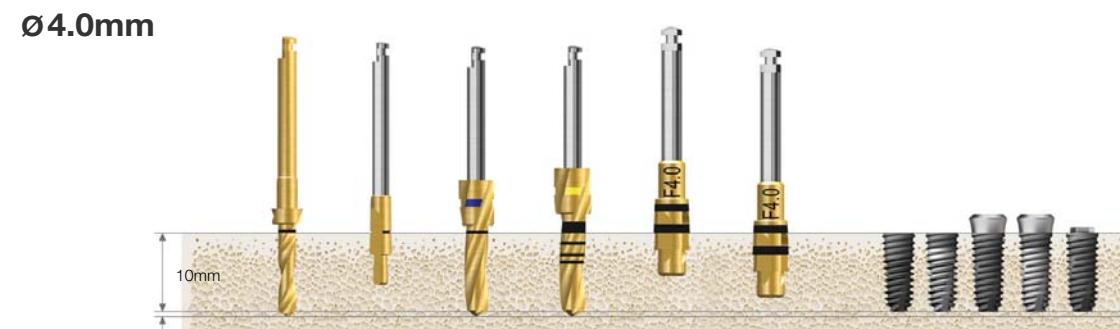
Bone Quality	Ø 2.2 Drill	Ø 2.0/3.0 Pilot Drill	Ø 3.0 Drill	Ø 3.0/3.8 Pilot Drill	Ø 3.8 Drill	F4.5 Cortical Drill 3	F4.5 Cortical Drill 3	Ø 4.5 Fixture
Soft	►	►	►	►	►			
Normal	►	►	►	►	►	►	►	Implant Placement
Hard	►	►	►	►	►	►	►	



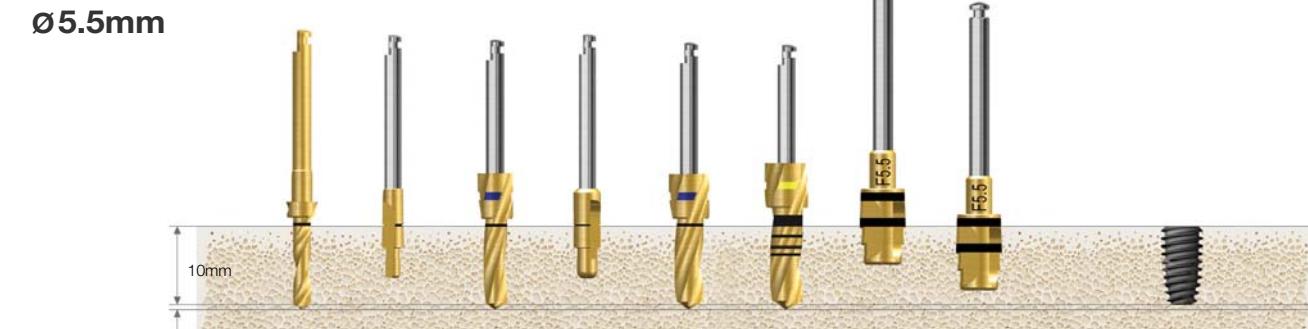
Bone Quality	Ø 2.2 Drill	Ø 2.0/3.0 Pilot Drill	Ø 3.0 Drill	F3.5 Cortical Drill 3	F3.5 Cortical Drill 3	Ø 3.5 Fixture
Soft	►	►	►			
Normal	►	►	►	►		Implant Placement
Hard	►	►	►	►	►	



Bone Quality	Ø 2.2 Drill	Ø 2.0/3.0 Pilot Drill	Ø 3.0 Drill	Ø 3.0/3.8 Pilot Drill	Ø 3.8 Drill	Ø 4.3 Drill	F5.0 Cortical Drill 3	F5.0 Cortical Drill 3	Ø 5.0 Fixture
Soft	►	►	►	►	►				
Normal	►	►	►	►	►	►	►	►	Implant Placement
Hard	►	►	►	►	►	►	►	►	



Bone Quality	Ø 2.2 Drill	Ø 2.0/3.0 Pilot Drill	Ø 3.0 Drill	Ø 3.3 Drill	F4.0 Cortical Drill 3	F4.0 Cortical Drill 3	Ø 4.0 Fixture
Soft	►	►	►	►			
Normal	►	►	►	►	►		Implant Placement
Hard	►	►	►	►	►	►	



Bone Quality	Ø 2.2 Drill	Ø 2.0/3.0 Pilot Drill	Ø 3.0 Drill	Ø 3.0/3.8 Pilot Drill	Ø 3.8 Drill	Ø 4.6 Drill	F5.5 Cortical Drill 3	F5.5 Cortical Drill 3	Ø 5.5 Fixture
Soft	►	►	►	►	►	►			
Normal	►	►	►	►	►	►	►	►	Implant Placement
Hard	►	►	►	►	►	►	►	►	

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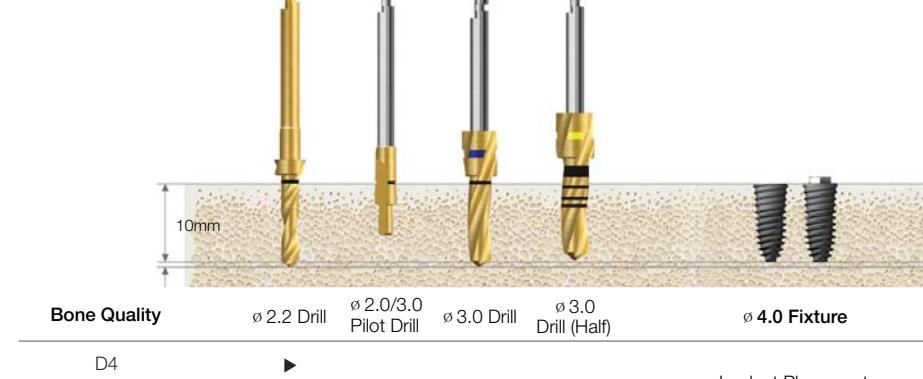
OSSTEM KIT

Drilling Sequence IV Type Straight Drill

TSIV | USIV

(Length : 10mm)

Ø4.0mm

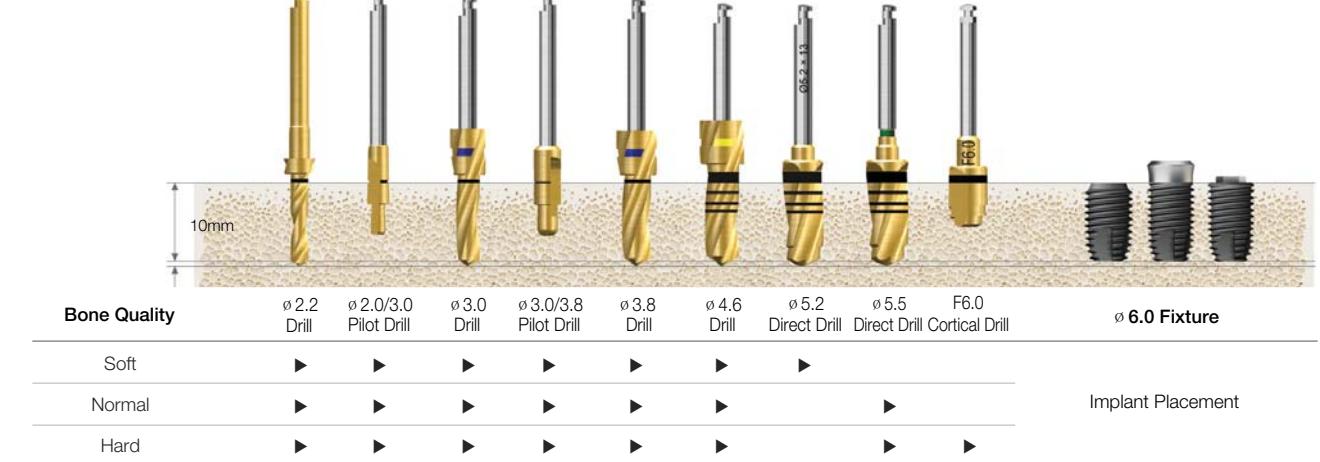


Drilling Sequence Ultra-wide Straight Drill

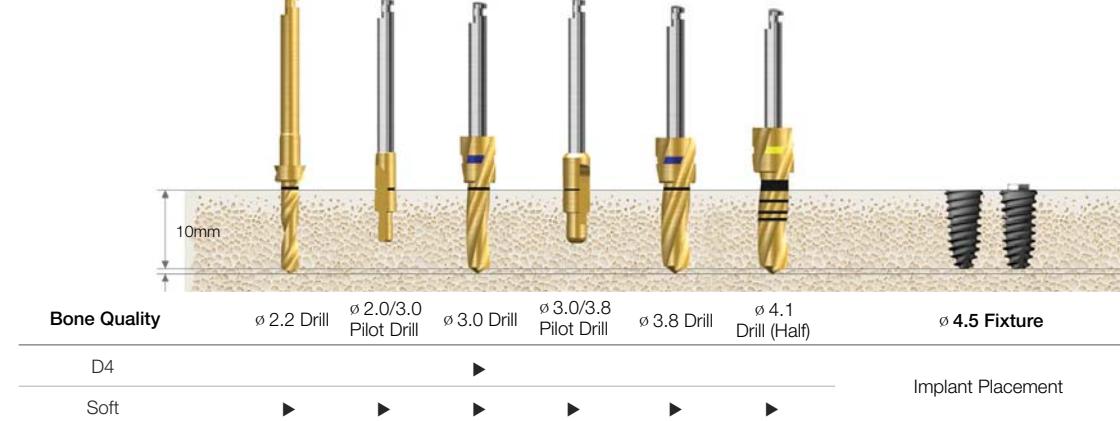
TSII Ultra-wide | SSII Ultra-wide | USII Ultra-wide

(Length : 10mm)

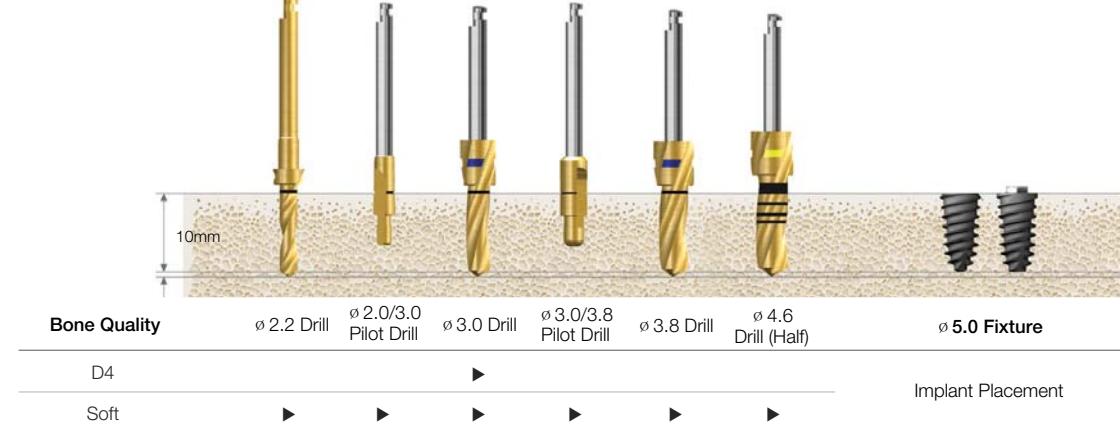
Ø6.0mm



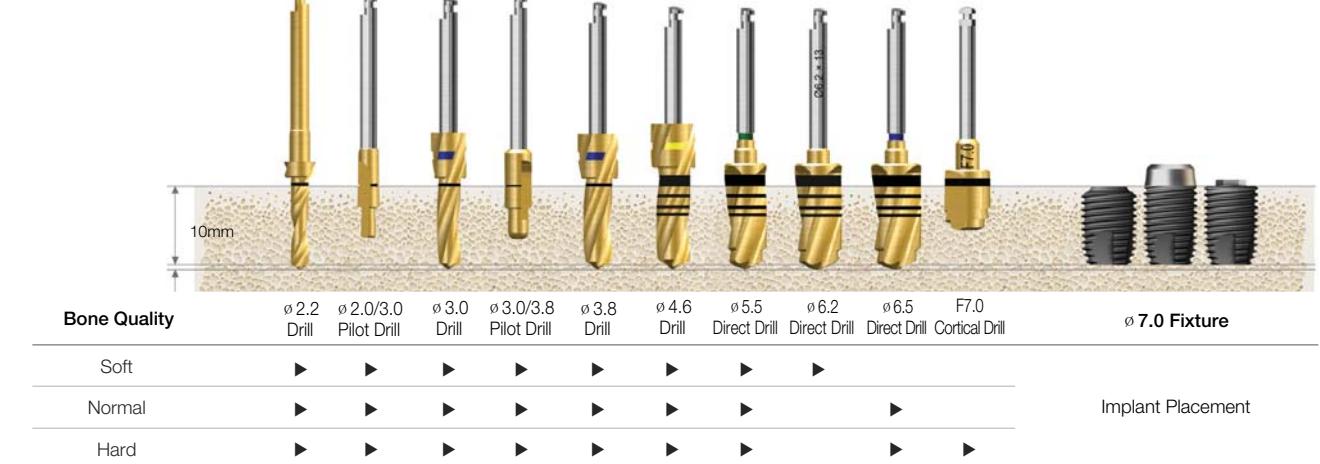
Ø4.5mm



Ø5.0mm



Ø7.0mm



Recommended insertion torque $\leq 40\text{Ncm}$

TSIV/USIV system is designed specifically for the maxillary sinus and soft bone. It is not recommended in the normal bone or more recommend reducing the insertion speed to 15rpm or lower, due to the TSIV/USIV aggressive threads

Drilling Sequence Ultra-wide Straight Drill

TSII Ultra-wide | SSII Ultra-wide | USII Ultra-wide

(Length : 10mm)

Ø6.0mm

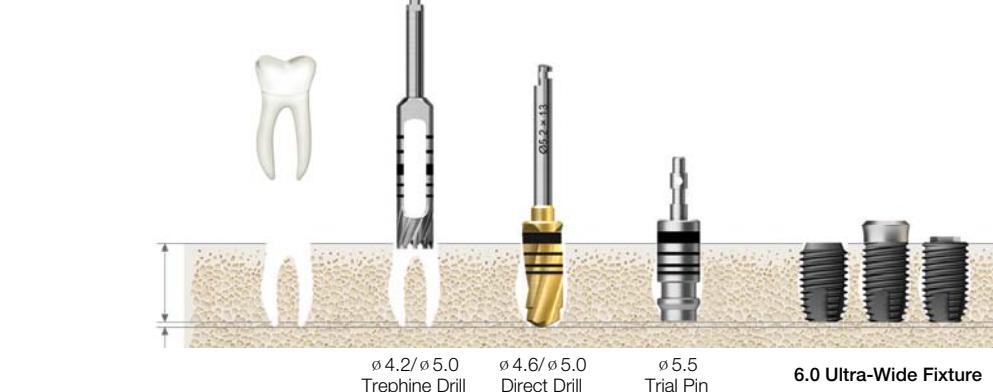
Drilling sequence with trephine in the healed mature bone



Bone Quality	Ø 4.2/5.0 Trepbine Drill	Ø 4.6/5.2 Direct Drill	Ø 4.6/5.5 Direct Drill	F6.0 Cortical Drill	Ø 6.0 Fixture
Soft	►	►			
Normal	►		►		
Hard	►	►	►		

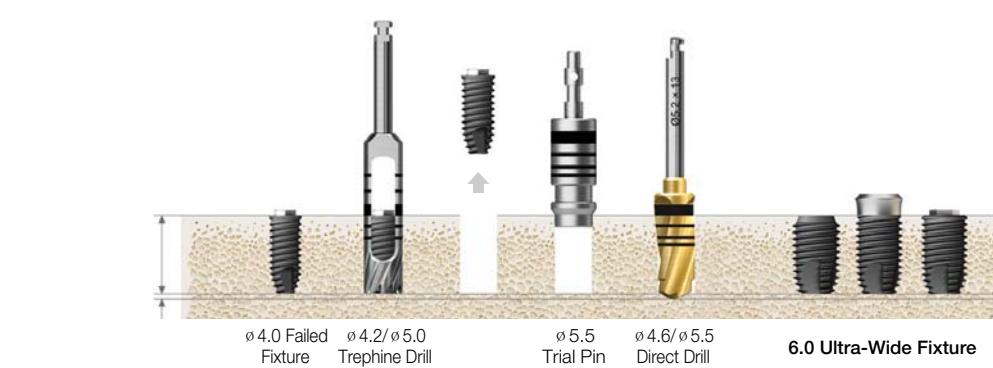
Implant Placement

Immediate placement at the extraction socket



Ø 4.2/Ø 5.0 Trepbine Drill Ø 4.6/Ø 5.0 Direct Drill Ø 5.5 Trial Pin 6.0 Ultra-Wide Fixture

Immediate replacement of the failed implant



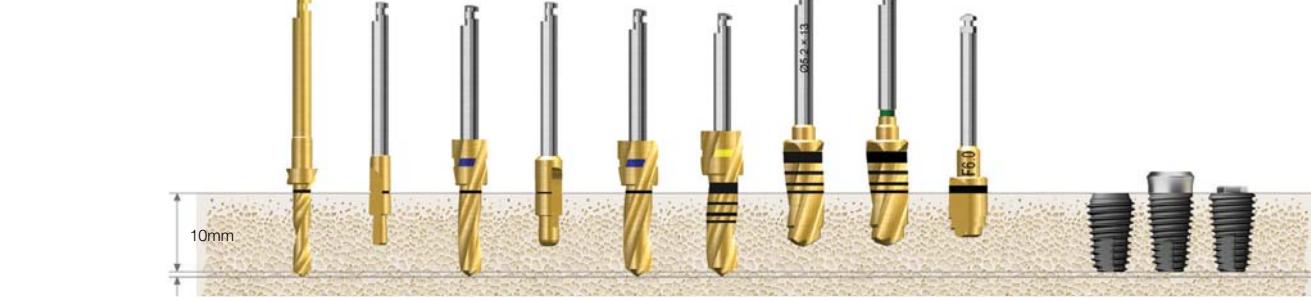
Ø 4.0 Failed Fixture Ø 4.2/Ø 5.0 Trepbine Drill Ø 5.5 Trial Pin Ø 4.6/Ø 5.5 Direct Drill 6.0 Ultra-Wide Fixture

Drilling Sequence Ultra-wide Straight Drill

TSIII Ultra-wide | SSIII Ultra-wide | USIII Ultra-wide

(Length : 10mm)

Ø6.0mm



Bone Quality	Ø 2.2 Drill	Ø 2.0/3.0 Pilot Drill	Ø 3.0 Drill	Ø 3.0/3.8 Pilot Drill	Ø 3.8 Drill	Ø 4.6 Drill	Ø 5.2 Direct drill	Ø 5.5 Direct drill	F6.0 Cortical Drill	Ø 6.0 Fixture
Soft	►	►	►	►	►	►	►	►		
Normal	►	►	►	►	►	►	►	►	►	Implant Placement
Hard	►	►	►	►	►	►	►	►	►	

Ø7.0mm



Bone Quality	Ø 2.2 Drill	Ø 2.0/3.0 Pilot Drill	Ø 3.0 Drill	Ø 3.0/3.8 Pilot Drill	Ø 3.8 Drill	Ø 4.6 Drill	Ø 5.5 Direct drill	Ø 6.2 Direct drill	Ø 6.5 Direct drill	F7.0 Cortical Drill	Ø 7.0 Fixture
Soft	►	►	►	►	►	►	►	►	►		
Normal	►	►	►	►	►	►	►	►	►	►	Implant Placement
Hard	►	►	►	►	►	►	►	►	►	►	

Recommended insertion torque $\leq 40\text{Nm}$

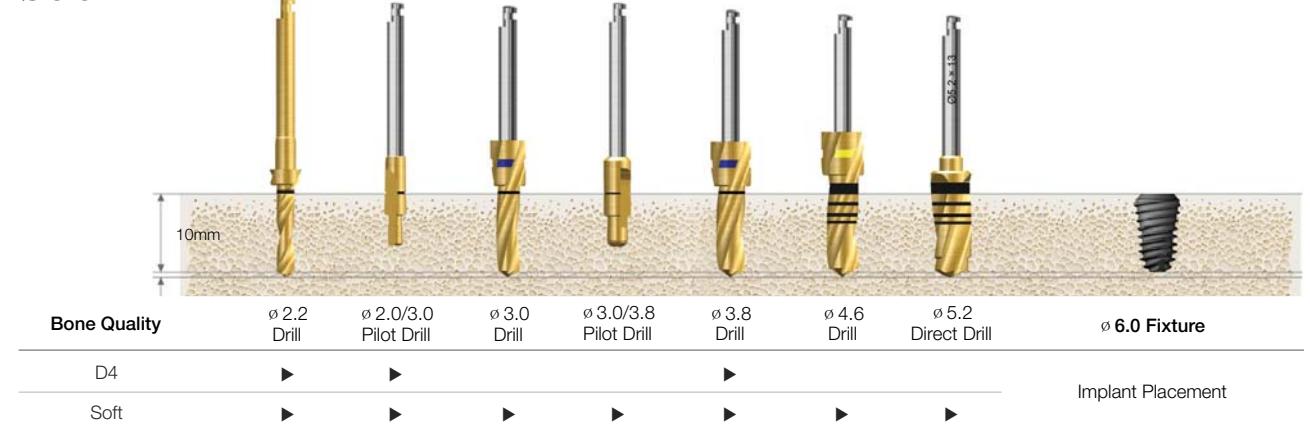
TS fixture insertion depth The normal/hard bone is placed 1mm deeper than the bone level, and the soft bone is placed at the bone level to maintain the fixed strength

Drilling Sequence **Ultra-wide Straight Drill**

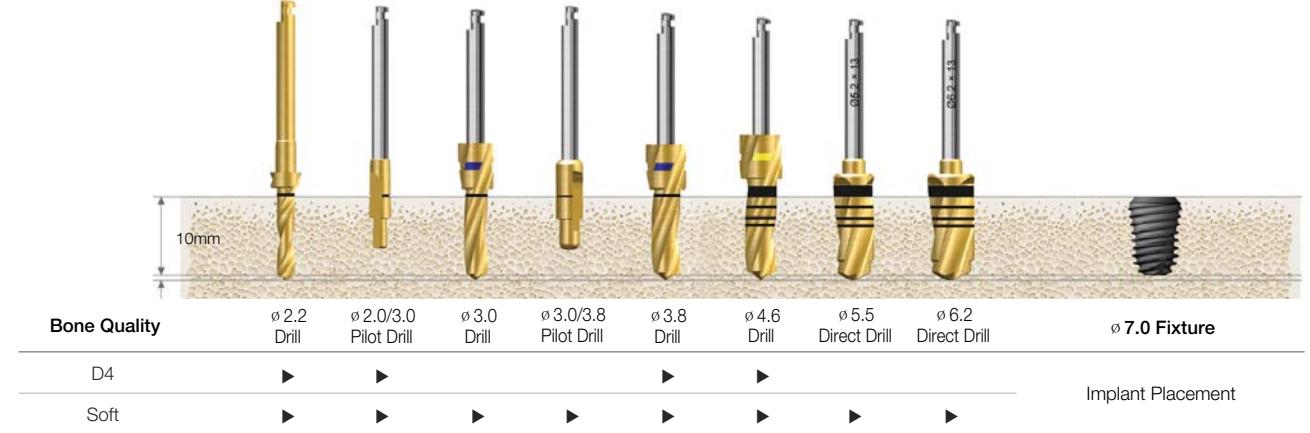
TSIV Ultra-wide | USIV Ultra-wide

(Length : 10mm)

Ø6.0mm



Ø7.0mm



OSSTEM[®]
IMPLANT

100

OSSTEM KIT

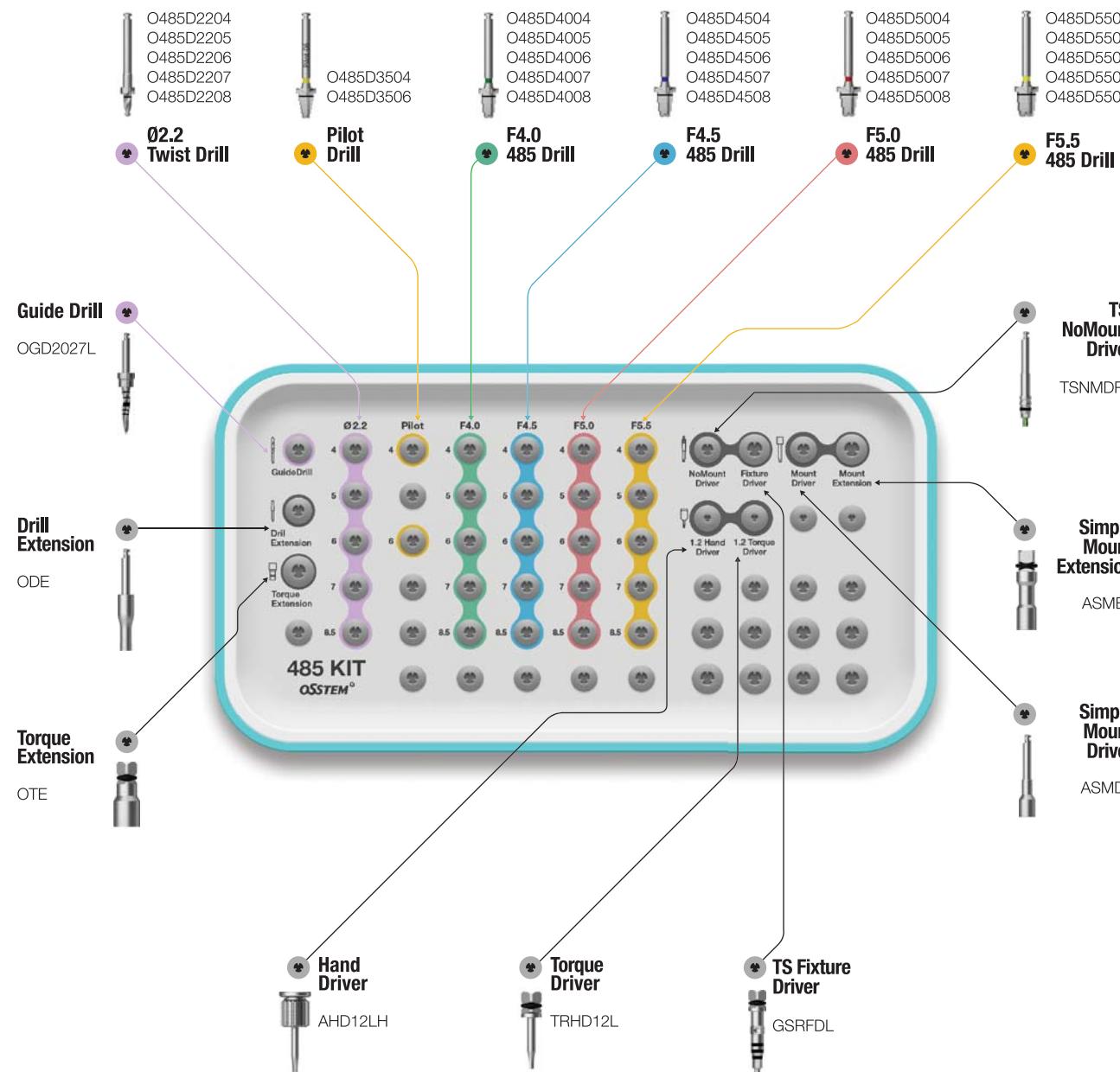
101

OSSTEM KIT

Recommended insertion torque ≤40Ncm

485 KIT (O485K)

For **TSIII** **SSIII** **USIII**

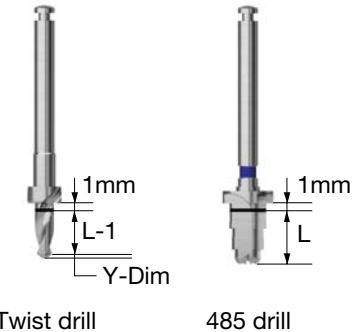


485 KIT Surgical Instruments



485 Drill

- Drill for short implant placement in alveolar bone lacking vertical height
- 2.2 drill : straight drill
- In addition, the drill tip blade is a CAS drill shape, the side blade is a taper drill shape
- Stopper drill with 1mm extra
- Recommended speed : 800~1,200rpm



L \ Type	Ø2.2	Pilot	F4.0	F4.5	F5.0	F5.5
4.0	O485D2204	O485D3504	O485D4004	O485D4504	O485D5004	O485D5504
5.0	O485D2205	-	O485D4005	O485D4505	O485D5005	O485D5505
6.0	O485D2206	O485D3506	O485D4006	O485D4506	O485D5006	O485D5506
7.0	O485D2207	-	O485D4007	O485D4507	O485D5007	O485D5507
8.5	O485D2208	-	O485D4008	O485D4508	O485D5008	O485D5508

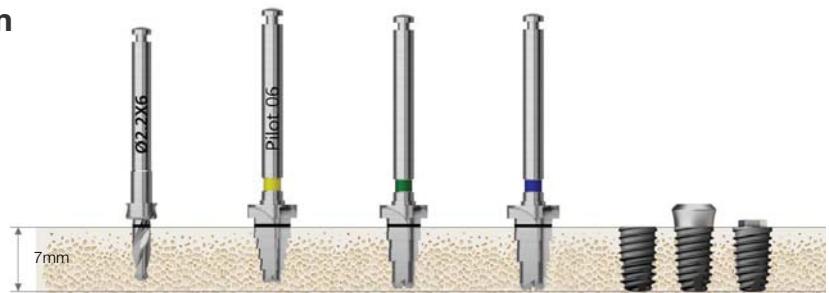
※ Refer to surgical instruments for other components (106p~)

Drilling Sequence 485 Drill

TSIII | SSIII | USIII

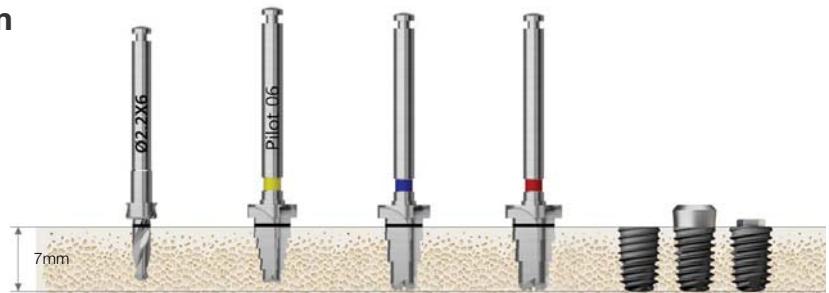
(Length : 7mm)

Ø4.0mm



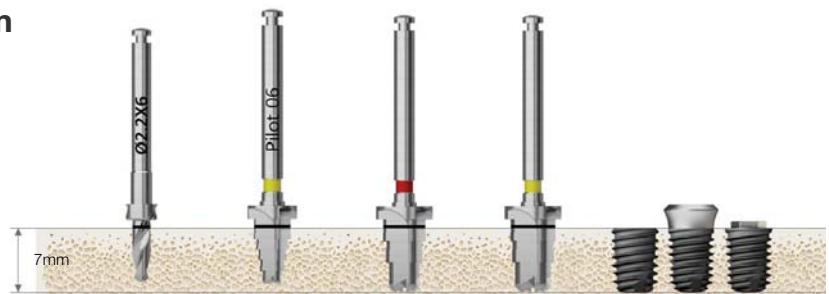
Bone Quality	Ø 2.2 Drill	Pilot Drill	F4.0 485 Drill	F4.5 485 Drill	Ø 4.0 Fixture
Normal	►	►	►		Implant Placement
Hard	►	►		►	

Ø4.5mm



Bone Quality	Ø 2.2 Drill	Pilot Drill	F4.5 485 Drill	F5.0 485 Drill	Ø 4.5 Fixture
Normal	►	►	►		Implant Placement
Hard	►	►		►	

Ø5.0mm



Bone Quality	Ø 2.2 Drill	Pilot Drill	F5.0 485 Drill	F5.5 485 Drill	Ø 5.0 Fixture
Normal	►	►	►		Implant Placement
Hard	►	►		►	

OSSTEM[®]
IMPLANT

Surgical Instruments

123 Guide Drill

- Used to create an hole in the bone to facilitate initial drilling
- Easy drill depth control by selecting the appropriate drill stopper
- 122 taper KIT single Item (excluded from taper KIT)

D **Ø2.0**
OGD2027L



Drill Extension

- Drill and other handpiece tool' extension (drill 14.9/16.9mm extension)
- In case of improper fastening, excessive force may cause bending or breakage
- Taper KIT, straight KIT common components (ODE)

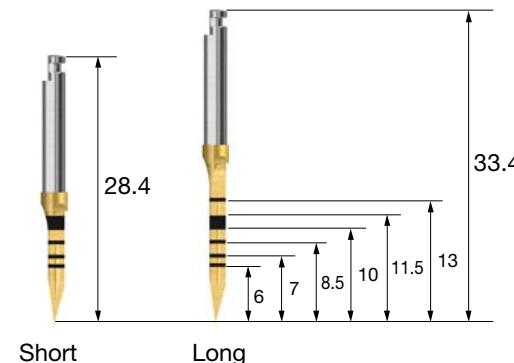
L(연장) **14.9** **16.9**
HDE ODE



Lance Drill - Guide Drill

- Used to create an hole in the bone to facilitate initial drilling
- Bone density can be determined by drilling
- Taper KIT single Item (excluded from 122 taper KIT)

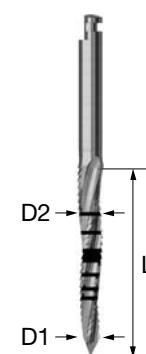
L **Short** **Long**
AGDSC AGDLC



Sidecut Drill

- Capable of side cutting using the drill body's cutter blades
- For trimming the ridge of an extraction socket
- Facilitating site preparation of an extraction socket
- Taper KIT single Item (excluded from 122 taper KIT)

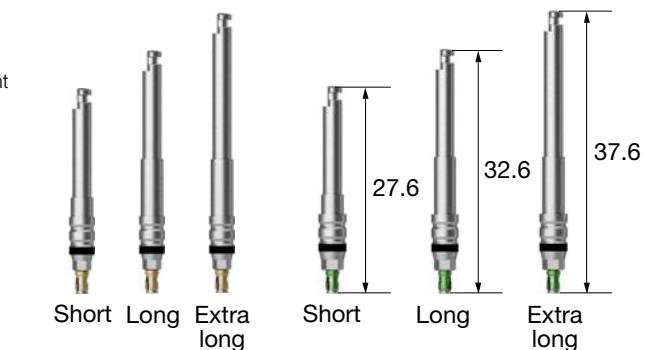
D1 / D2	Ø1.5 / 2.0	Ø2.0 / 2.5	Ø3.0 / 3.5
13	OSLMDS	OSLMD20S	-
16.5	-	-	OSLMD30L
20	OSLMDL	OSLMD20L	-



NoMount Driver for TS

- Engine driver which is connected directly with the fixture for placement
- C = Connection

C	Mini	Regular
Short	TSNMDMS	TSNMDRS
Long	TSNMDML	TSNMDRL
Ex.Long	TSNMDME	TSNMDRE



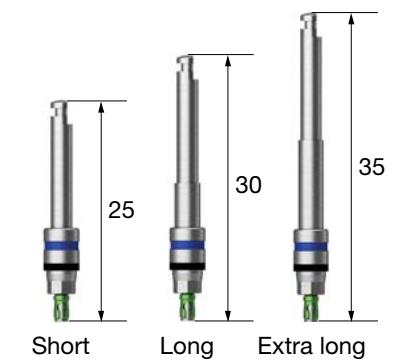
107

OSSTEM KIT

NoMount Driver for SS

- Engine driver which is connected directly with the fixture for placement
- C = Connection

C	Regular / Wide
Short	SSNMDS
Long	SSNMDL
Ex.Long	SSNMDE



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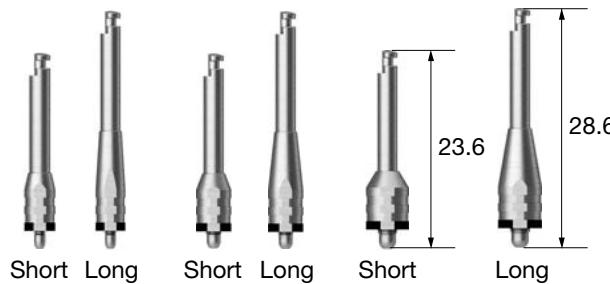
OSSTEM KIT

Surgical Instruments

NoMount Driver for US

- Engine driver which is connected directly with the fixture for placement
- C = Connection

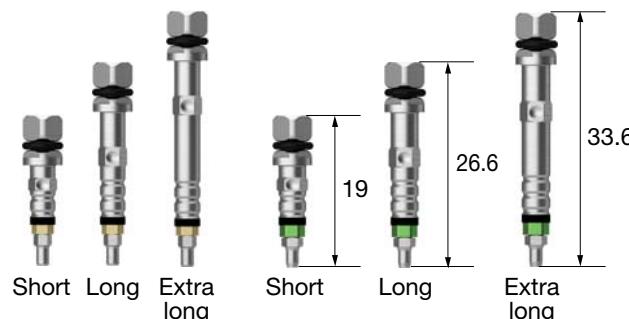
L \ C	Mini	Regular	Wide
Short	USNMD35MS	USNMD41RS	USNMD51WS
Long	USNMD35ML	USNMD41RL	USNMD51WL



NoMount Torque Driver for TS

- Torque wrench driver connects directly with the fixture (without a mount) for placement
- Make sure fixture and driver is securely connected; loose connection may cause fixture fracture
- It can not be removed when a fracture occurs
- C = Connection

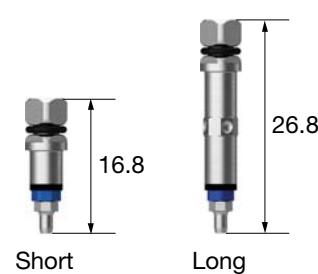
L \ C	Mini	Regular
Short	GSNMT32S	GSNMT35S
Long	GSNMT32L	GSNMT35L
Ex.Long	GSNMT32E	GSNMT35E



NoMount Torque Driver for SS

- Torque wrench driver connects directly with the fixture (without a mount) for placement
- Make sure fixture and driver is securely connected; loose connection may cause fixture fracture
- It can not be removed when a fracture occurs
- C = Connection

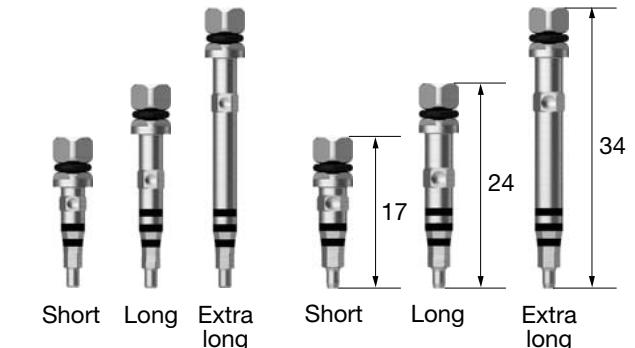
L \ C	Regular/Wide
Short	SSNMT39S
Long	SSNMT39L



Fixture Driver for TS

- Connects directly to the fixture for final adjustments to the implant's depth. Also removes the implant.
- C = Connection

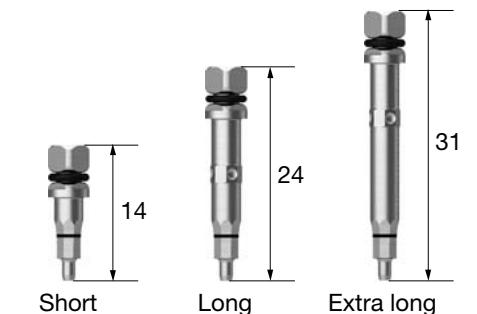
L \ C	Mini	Regular
Short	GSMFDS	GSRFDS
Long	GSMFDL	GSRFDL
Ex.Long	GSMFDE	GSRFDE



Fixture Driver for SS

- Connects directly to the fixture for final adjustments to the implant's depth. Also removes the implant.
- C = Connection

L \ C	Regular/Wide
Short	SSRFDS
Long	SSRFDL
Ex.Long	SSRFDE



Fixture Driver for US

- Connects directly to the fixture for final adjustments to the implant's depth. Also removes the implant.
- C = Connection

C	Mini	Regular	Wide
	USMFDL	USRFDL	USWFDL



Surgical Instruments

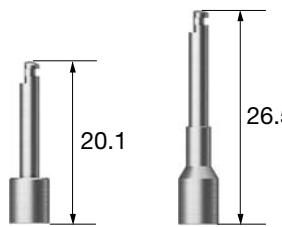
Torque Extension

- Extends the length of an instrument by 10mm



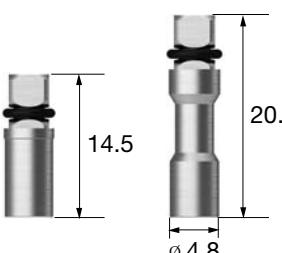
Simple Mount Driver

- Connects to mounted fixtures for placement



Simple Mount Extension

- Extends the length of the simple mount driver and it is used with wrench



Simple Open Wrench

- Disengages the simple mount when bone quality is poor
- Easy insertion into the mouth with a neck angle of 30°



Removal Tool for Fixture Mount

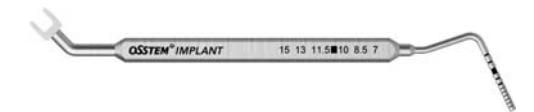
- Removes the mount screw when a fixture and mount become wedged
- Connects to a driver handle and a torque wrench
- Insert vertically, and rotate it clock-wise to remove the mount
- App = Application



App	Mini (TS,US)	Regular (TS,SS,US) / Wide (SS)	Wide (US)
	ERFM	HFRF	ERFW

Depth Gauge

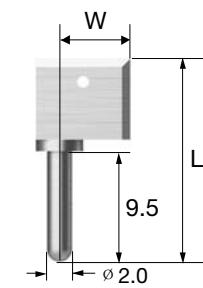
- Measures drilling depth (7~15mm)
- Common components of 122 taper & taper KIT



Positioning Guide

- Sets the drilling interval for fixture insertion
- Keep inserting after initial drilling
- Packing unit : the components and packages

W/L	2.5 / 21.5	6.0 / 17.5	11 / 17.5
	APG201	APG202	APG203



Tissue Height Gauge for TS

- Connects to the TS fixture to measure the height of the gingiva in relation to the fixture



Surgical Instruments

Ratchet Wrench

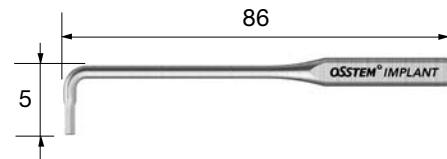
- It prevents wrench from backdriving
- Excessive torquing may cause damage to the bone or the inside of a fixture



CITQW-1185A

L-Wrench

- 1.2 hex driver for hard to reach areas like narrow intermaxillary areas
- Torque indication : when the wrench starts to bend (around 10°), it is possible to apply 5~8Ncm of torque



LWC

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OSSTEM KIT

Torque Wrench - Spring Type

- Applies a precise amount of torque (10/20/30Ncm) to the screw and abutment
- The neck of the torque wrench will bend when the exact amount of torque has been delivered
- Do not continue to torque after the neck has bent.
- Excessive force may cause screw fracture etc.



TW30

Torque Wrench - Bar Type

- Adjusts the implant depth, and tightens abutments, screws, etc.
- Pull the bar back until reaching the desired torque value



TW30B

Torque Wrench Set

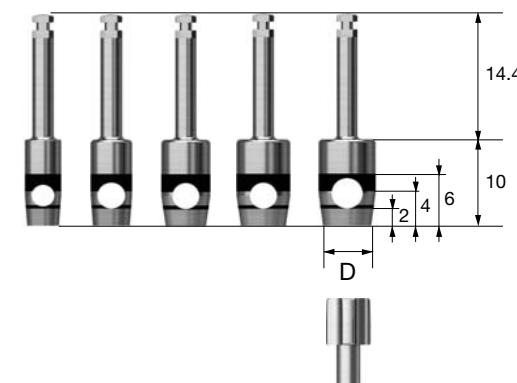
- Bi-directional torque wrench (a torque connector is included)
- Without separating the connector, rotate the handle to apply torque, either in a forward or a backward direction
- Compatible with osstem's machine driver connector
- Pull the bar back until reaching the desired torque value
- Packing unit : changeable torque wrench + torque connector



MX30

Tissue Punch

- For flapless surgery
 - Measures the height of gingiva, marked at 2mm increments
 - Packing unit : tissue punch + guide pin
- ※ Recommend using a tissue punch smaller than the healing abutment by 0.7 to 1.5mm



D	Ø3.3	Ø3.8	Ø4.3	Ø4.8	Ø5.3
TS	Ø 4.0/4.5	Ø 4.5/5.0	Ø 5.0	Ø 6.0	Ø 6.0
SS	-	Ø 4.8	-	Ø 6.0	Ø 6.0
US	Ø 4.0	Ø 5.0	Ø 5.0	Ø 6.0	Ø 6.0

Application healing abutment standard

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OSSTEM KIT

Surgical Instruments

TS Bone Profiler

- Trims the bone surrounding a fixture for one stage and two stage procedures
- Connect the guide screw to the fixture in order to center the profiler. Make sure to compensate for the healing abutment.
- Guide screw protects the fixture's platform from damage
- Packing unit : bone profiler + guide screw
- C = Connection



C \ D (Healing Abutment)	Ø4.5	Ø5.5	Ø6.5 / 7.5
Mini / Regular	GSBP45	GSBP55	GSBP75

Mini + Regular guide screw	Mini + Regular guide screw	Regular guide screw
----------------------------------	----------------------------------	------------------------

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OSSTEM KIT

US Bone Profiler

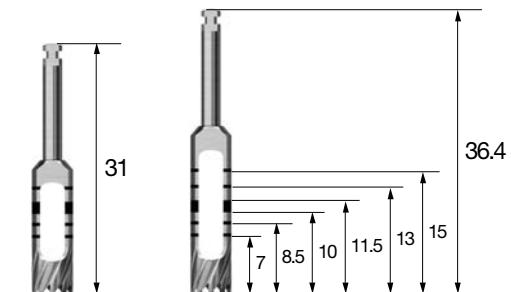
- Trims the bone surrounding a fixture and cover screw after a two stage procedure
- Remove cover screw, connect the guide screw to the fixture in order to center the profiler. Make sure to compensate for the healing abutment.
- Guide screw protects the fixture's hex from damage
- Packing unit : bone profiler + guide screw
- P = Platform



D \ P	Mini	Regular	Wide	T-type
Ø4.0	ABPM400C			
Ø5.0	ABPM500C	ABPR500C		
Ø6.0	-	ABPR600C	ABPW600C	TBPW600C
Ø7.0	-		ABPW700C	-

Trephine Drill

- Harvests bone or removes a failed fixture
- Removes septal bone
- Also serves as the initial drill for ultra-wide fixture



L \ D (Inner / Outer)	3.7 / 4.5	4.2 / 5.0	4.7 / 5.5	5.2 / 6.0	5.7 / 6.5	6.2 / 7.0
Short	TD37S	TD42S	TD47S	TD52S	TD57S	TD62S
Long	TD37	TD42	TD47	TD52	TD57	TD62

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OSSTEM KIT

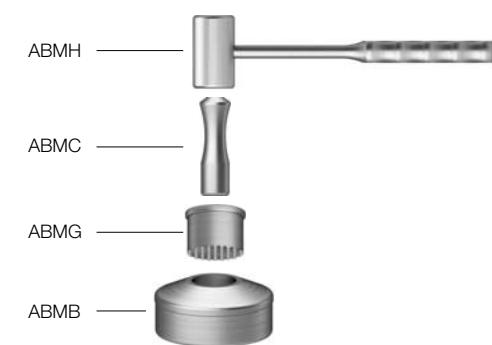
Machine Driver Handle

- Manual handle for engine type surgical tools



Bone Mill

- Generates particulate bone with harvested autogenous bone



Surgical Instruments

Anterior Hand Driver for Implant

- Manually torque implants in the anterior area
- Connect to a NoMount torque driver or a fixture driver
- Excessive torquing may cause damage to the fixture or driver



AHDI

Torque Handle

- 116
- OSSTEM KIT
- Connect with a contra-angle hand piece
(handpiece gear ratio to 1:1)
 - Connects healing abutments, cover screws, abutment screws, orthodontic screws, etc. (note : after connecting the part, make sure that it is tightened with a torque wrench)
 - Excessive torquing may cause damage to the screw fracture or hand piece



TQHD

OSSTEM[®]
IMPLANT

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OSSTEM KIT

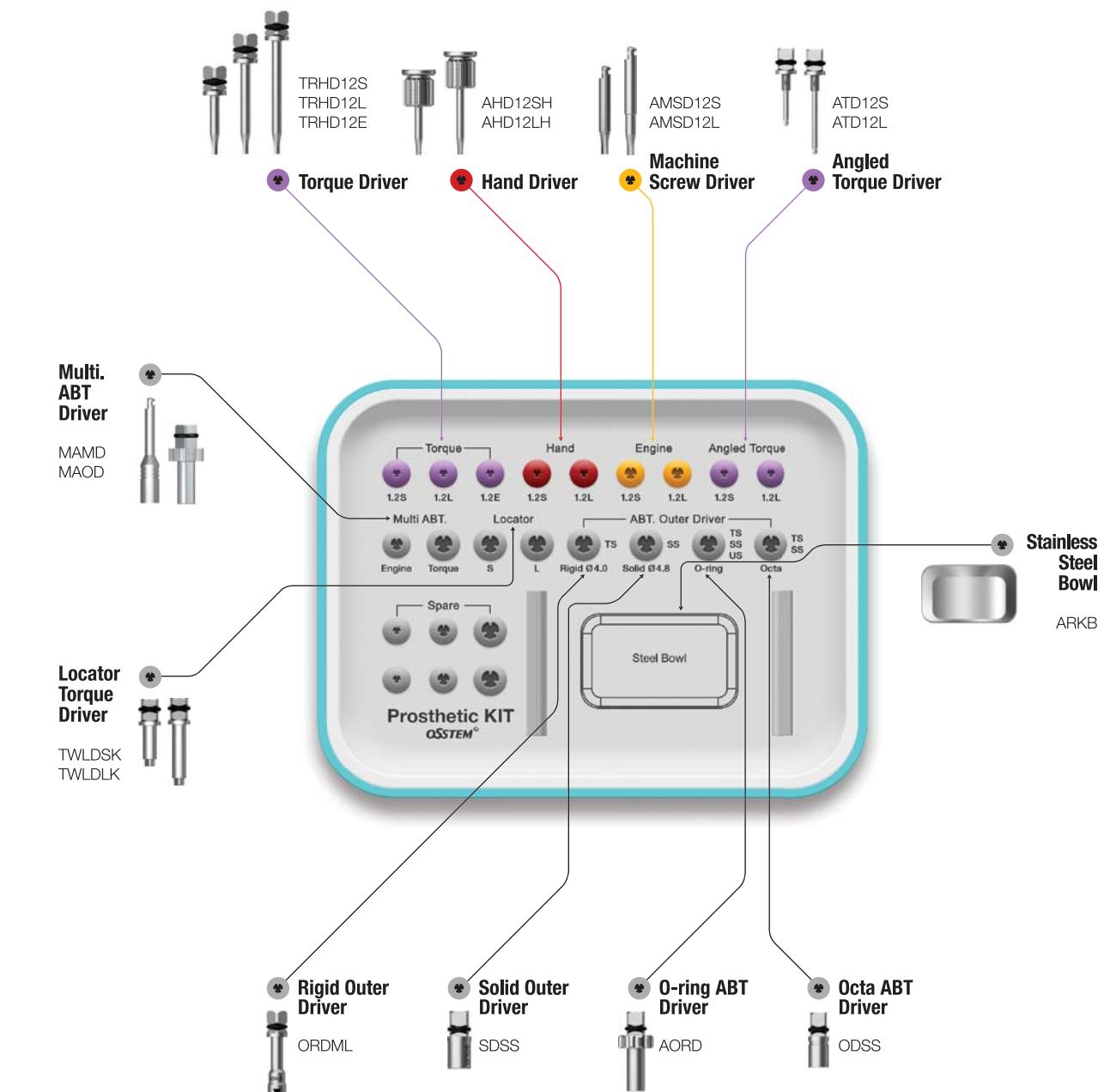
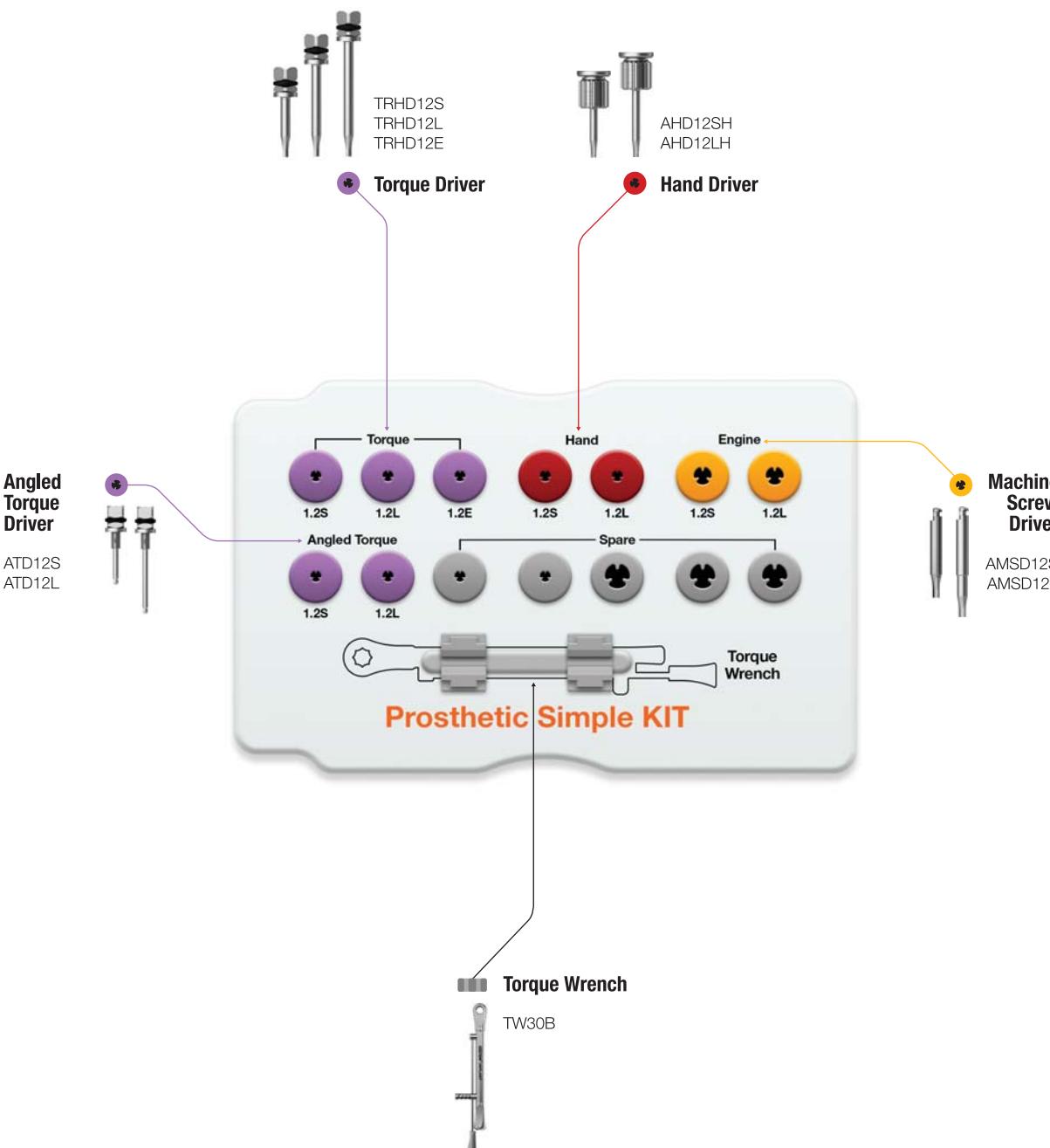
Prosthetic Simple KIT (OPSK)

Prosthetic KIT (OPK)

Top panel components

Torque Wrench

TW30B

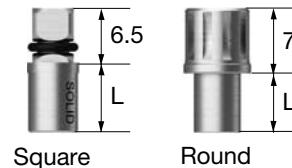


Prosthetic KIT

Surgical Instruments

Solid Abutment Driver

- Driver for solid abutment driver
- Insert the groove of the solid abutment into the driver triangle display and apply torque
- Recommended torque : 30Ncm



Regular

L \ Type	Square	Round
Short(6)	SDSS	SDRS
Long(12)	SDSL	SDRL

Wide

L \ Type	Square
Short(10)	SD60S

Excellent Solid Abutment Driver

- Driver for excellent solid abutment
- Insert the groove of the excellent solid abutment into the driver triangle display and apply torque
- Recommended torque : 30Ncm



Regular

L \ Type	Square	Round
Short(6)	ESDSS	ESDRS
Long(12)	ESDSL	ESDRL

Wide

L \ Type	Square
Short(10)	ESD60S

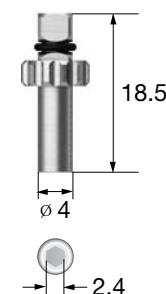
122

OSSTEM KIT

O-ring Abutment Driver

- Driver for o-ring abutment

AORD



Rigid Outer Driver

- Driver for rigid abutment
- Recommended torque : 30Ncm

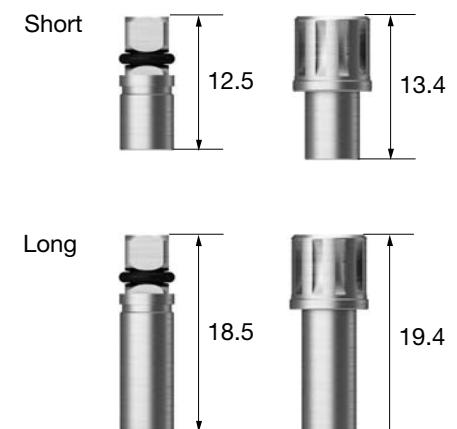
L \ D(Abutment)	Ø4.0	Ø4.5	Ø5.0	Ø6.0
Short(16.5)	ORDMS	ORD45S	ORDRS	ORDWS
Long(21.5)	ORDML	ORD45L	ORDRL	ORDWL



Octa Abutment Driver

- Driver for octa abutment
- Recommended torque : 30Ncm

L \ Type	Square	Round
Short	ODSS	ODRS
Long	ODSL	ODRL



123

OSSTEM KIT

Prosthetic KIT

Surgical Instruments

Multi Abutment Machine Driver

- Machine driver for multi abutment

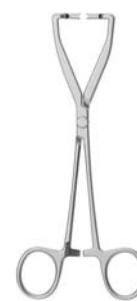
MAMD



Abutment Holder

- It is an assist device which can be used to easily fix 2-piece abutment which is inconvenient to hand by all areas of oral cavity

OABH



Multi Abutment Outer Driver

- Torque driver for multi abutment

MAOD



Locator® Torque Driver

- Torque driver for locator abutment

Type	Short	Long
------	-------	------



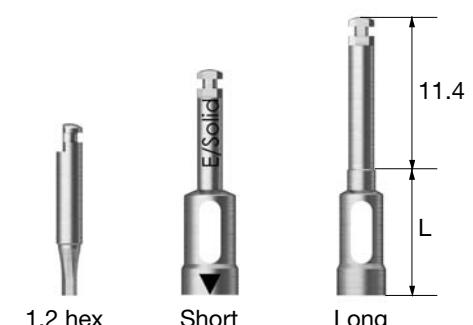
TWLD SK



TWLD LK

Osstem Torque Driver

- As osstem torque driver, it may not be fastened or disconnected when connecting a normal handpiece
- Driver should be used after matching the groove or section of the outer triangle and abutment
- Solid, excellent solid driver is compatible only with ø 4.8
- 1.2 hex type L is 5

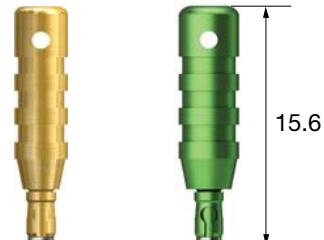


L \ Type	1.2 Hex	Rigid 4.0	Rigid 4.5	Rigid 5.0	Rigid 6.0	Solid	Excellent Solid
Short (10)	OTH12S	OTR40S	OTR45S	OTR50S	OTR60S	OTS48S	OTE48S
Long (15)	-	OTR40L	OTR45L	OTR50L	OTR60L	OTS48L	OTE48L

Path Probe for TS

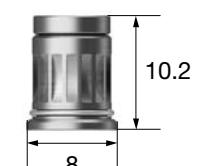
- After TS fixture placement, check path and measure gingival height
- C = Connection

C	Mini	Regular
	GIPAP-3016A	GIPAP-3516A



Torque Connector

- It is a connector that connects a square driver for torque to a bi-directional torque wrench





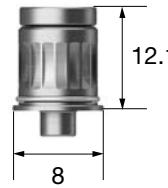
Prosthetic KIT

Surgical Instruments

Machine Driver Connector

- It is a connector that connects driver for machine to a bi-directional torque wrench

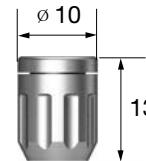
OMDC



Driver Handle

- Use it by connecting with torque driver

TIDHC



Finishing Reamer Set

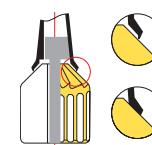
- After plastic coping casting, It is a device used to remove lip on the inner surface of casting

FRSC



Reamer user guide

1. Select a reamer tip that is the same size as the abutment, and connect it to the burn-out cylinder
2. Firmly grasp the casting body and rotate the Reamer Bite with consistent force
3. Ream the body until it is clean and free of the excess casting



Reamer Bite

- After plastic coping casting, it is a cutting edge that removes the lip on the inner surface of casting

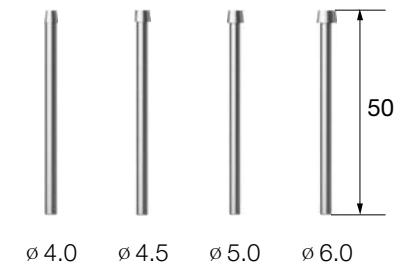
FRBC



Reamer Tip for Rigid Abutment

- After plastic coping casting, it is a guide part that enters inside when removing lip on inner surface of casting (for rigid abutment)

D	Ø4.0	Ø4.5	Ø5.0	Ø6.0
	GSRFRT400	GSRFRT450	GSRFRT500	GSRFRT600



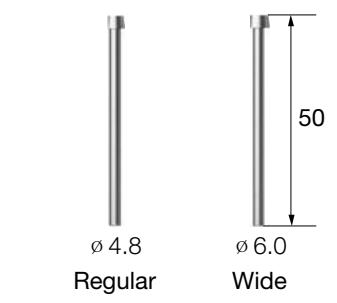
127

OSSTEM KIT

Reamer Tip for Solid, Excellent Solid Abutment

- After plastic coping casting, it is a guide part that enters inside when removing lip on inner surface of casting
- For both solid Ø 6.0 and excellent solid Ø 4.8
- P= Platform

P	Regular(Ø4.8)	Wide(Ø6.0)
Solid	FRTS480	FRTS600
Ex.Solid	FRTE480	FRTE600



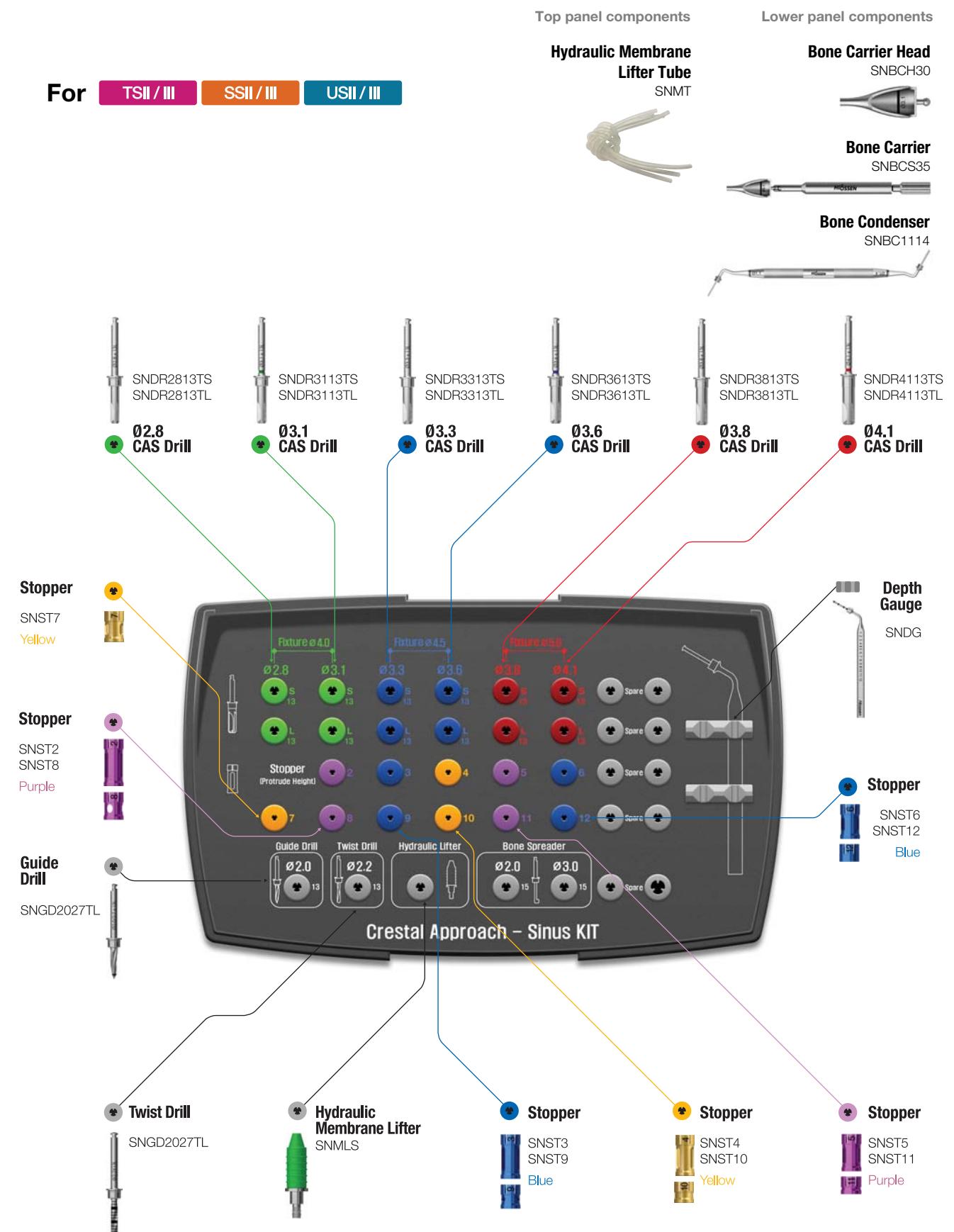
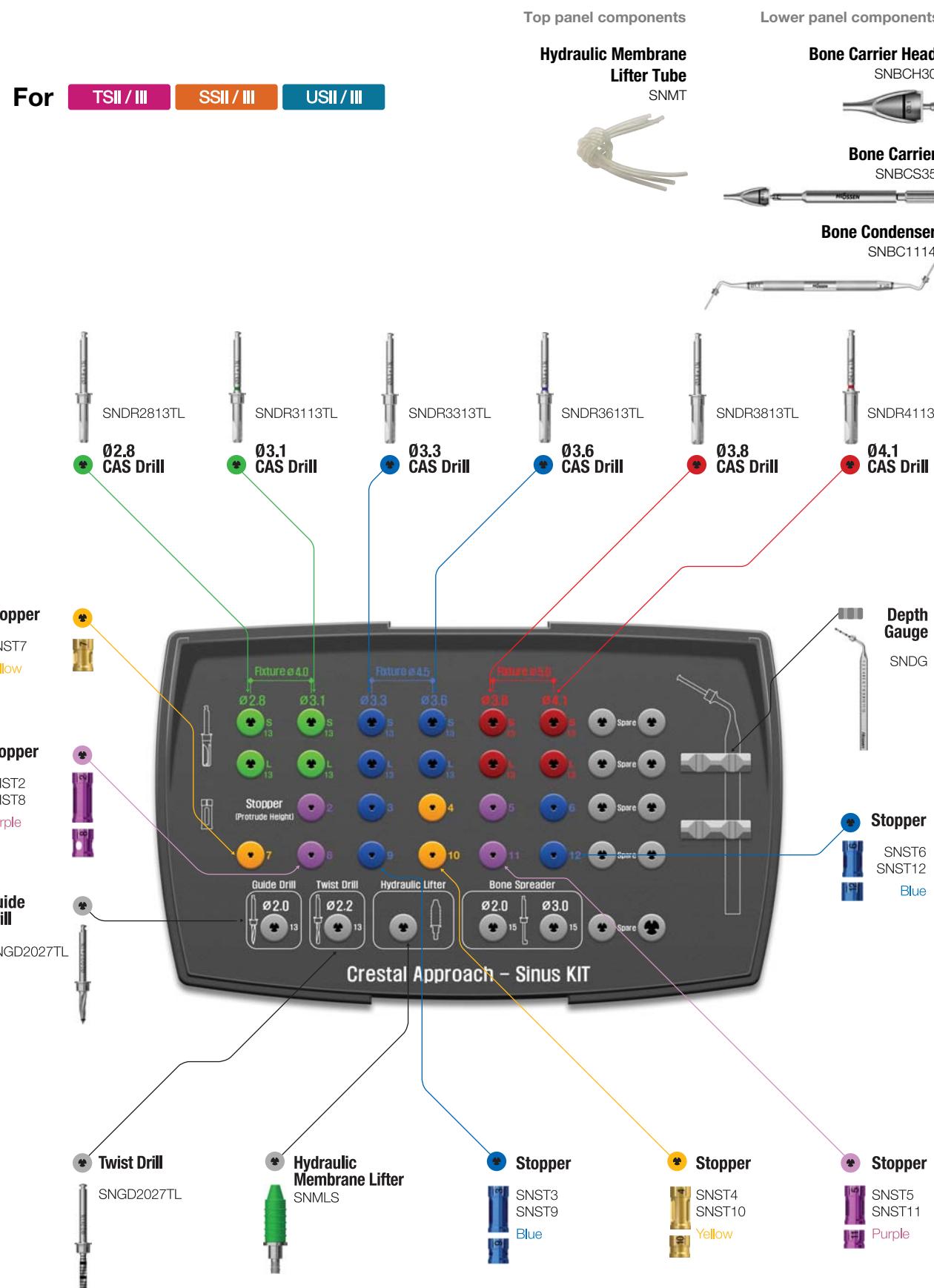
127

OSSTEM KIT

CAS KIT (HCRSNK)



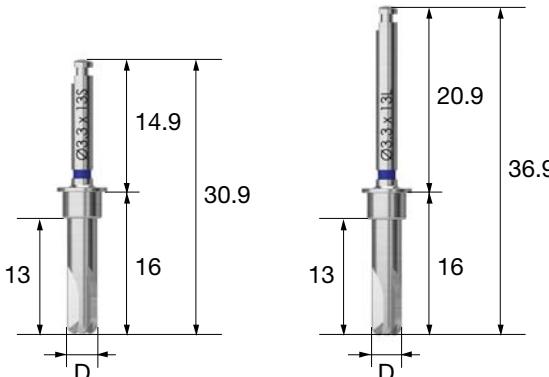
CAS Full KIT (HCRSNKP)



CAS KIT Surgical Instruments

CAS Drill

- Specialized 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)

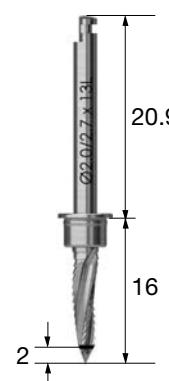


L \ D	Ø2.8	Ø3.1	Ø3.3	Ø3.6	Ø3.8	Ø4.1
Short	SNDR2813TS	SNDR3113TS	SNDR3313TS	SNDR3613TS	SNDR3813TS	SNDR4113TS
Long	SNDR2813TL	SNDR3113TL	SNDR3313TL	SNDR3613TL	SNDR3813TL	SNDR4113TL

Guide Drill

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

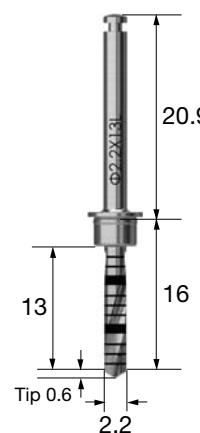
D Ø2.0 / 2.7
SNGD2027TL



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

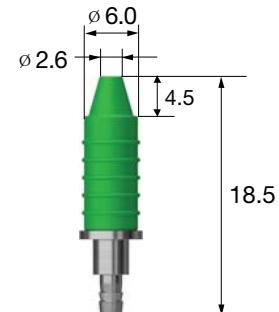
D Ø2.2
SNTD2213TL



Hydraulic Membrane Lifter Set

- Hydraulic pressure is used to separate and lift the sinus membrane
- Securly fits Ø 2.8~Ø 4.1 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
Color	SNST2	SNST3	SNST4	SNST5	SNST6	SNST7	SNST8	SNST9	SNST10	SNST11	SNST12
	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)

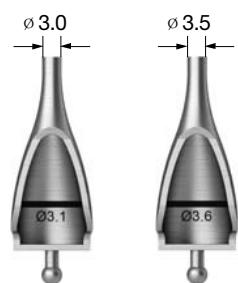
D
SNBCS35



Bone Carrier Head

- Cone shaped with an extended tip that reaches the sinus cavity and prevents bone material from spilling out
- SNBCH30 for Ø 3.1/3.3 CAS drilled osteotomy
- SNBCH35 for Ø 3.6/3.8/4.1 CAS drilled osteotomy
- Fill the reservoir 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



CAS KIT Surgical Instruments

Bone Condenser

- Safely shuttles bone material through the bone carrier head into the sinus cavity
- SNBCH30 : use $\varnothing 1.1$ / SNBCH35 : use $\varnothing 1.4$



$\varnothing 1.1 / 1.4$

SNBC1114

Hydraulic Membrane Lifter Tube

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



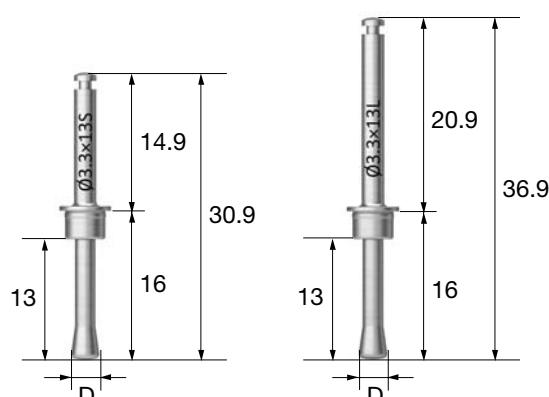
SNMT

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OSSTEM KIT

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



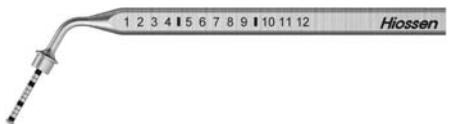
L \ D	$\varnothing 2.6$	$\varnothing 2.9$	$\varnothing 3.1$	$\varnothing 3.4$	$\varnothing 3.6$	$\varnothing 3.9$
Short	SNML2813TS	SNML3113TS	SNML3313TS	SNML3613TS	SNML3813TS	SNML4113TS
Long	SNML2813TL	SNML3113TL	SNML3313TL	SNML3613TL	SNML3813TL	SNML4113TL

Depth Gauge

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



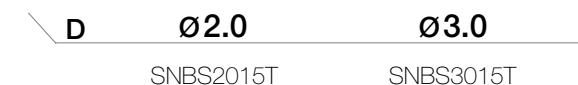
SNDG



Hiossen

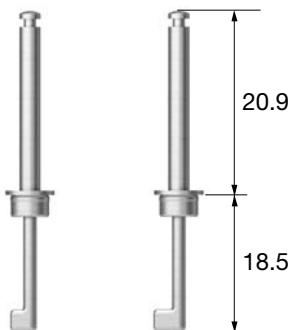
Bone Spreader

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



SNBS2015T

$\varnothing 3.0$



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OSSTEM KIT

Y-Connector

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



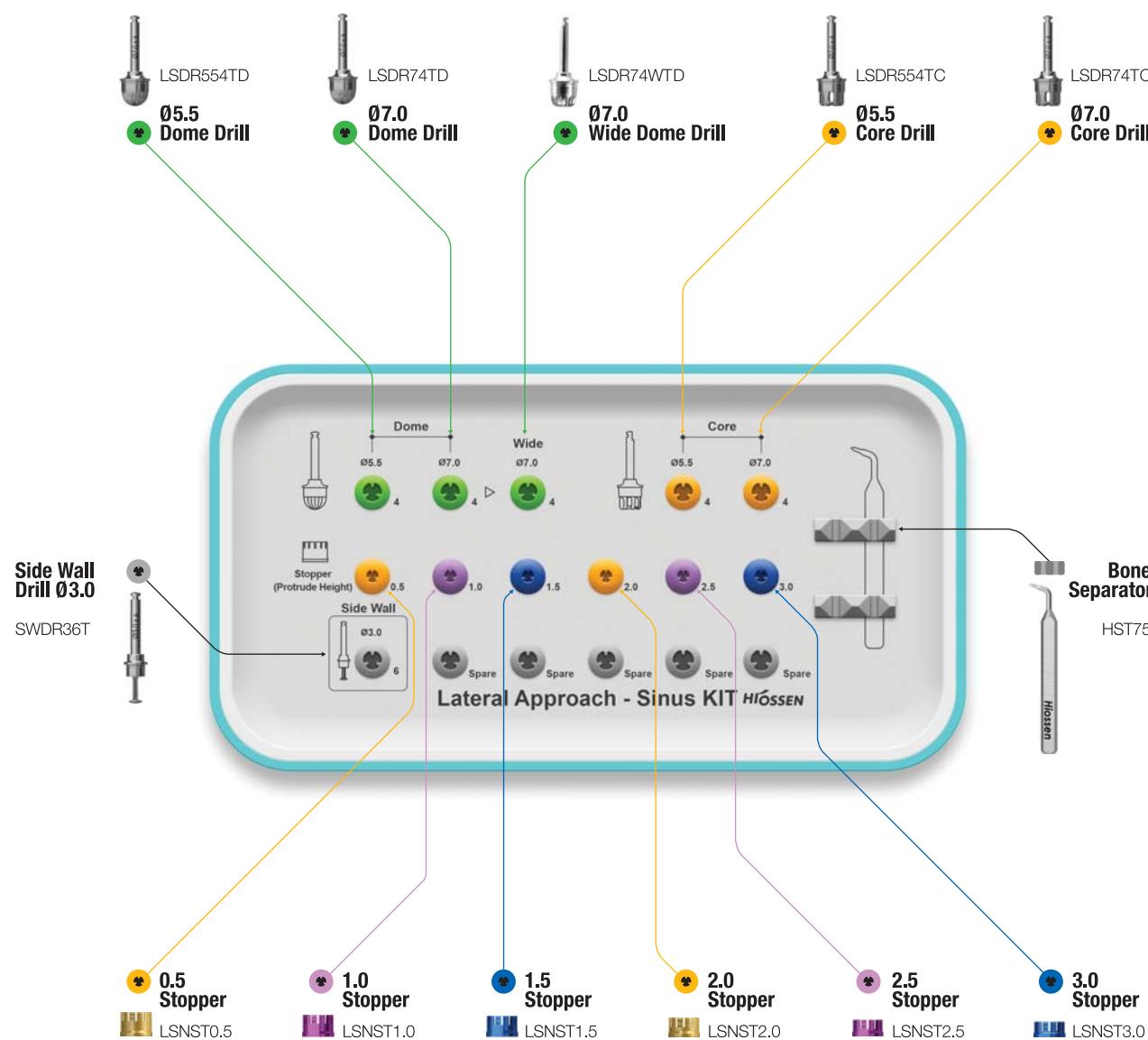
SNYCT



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

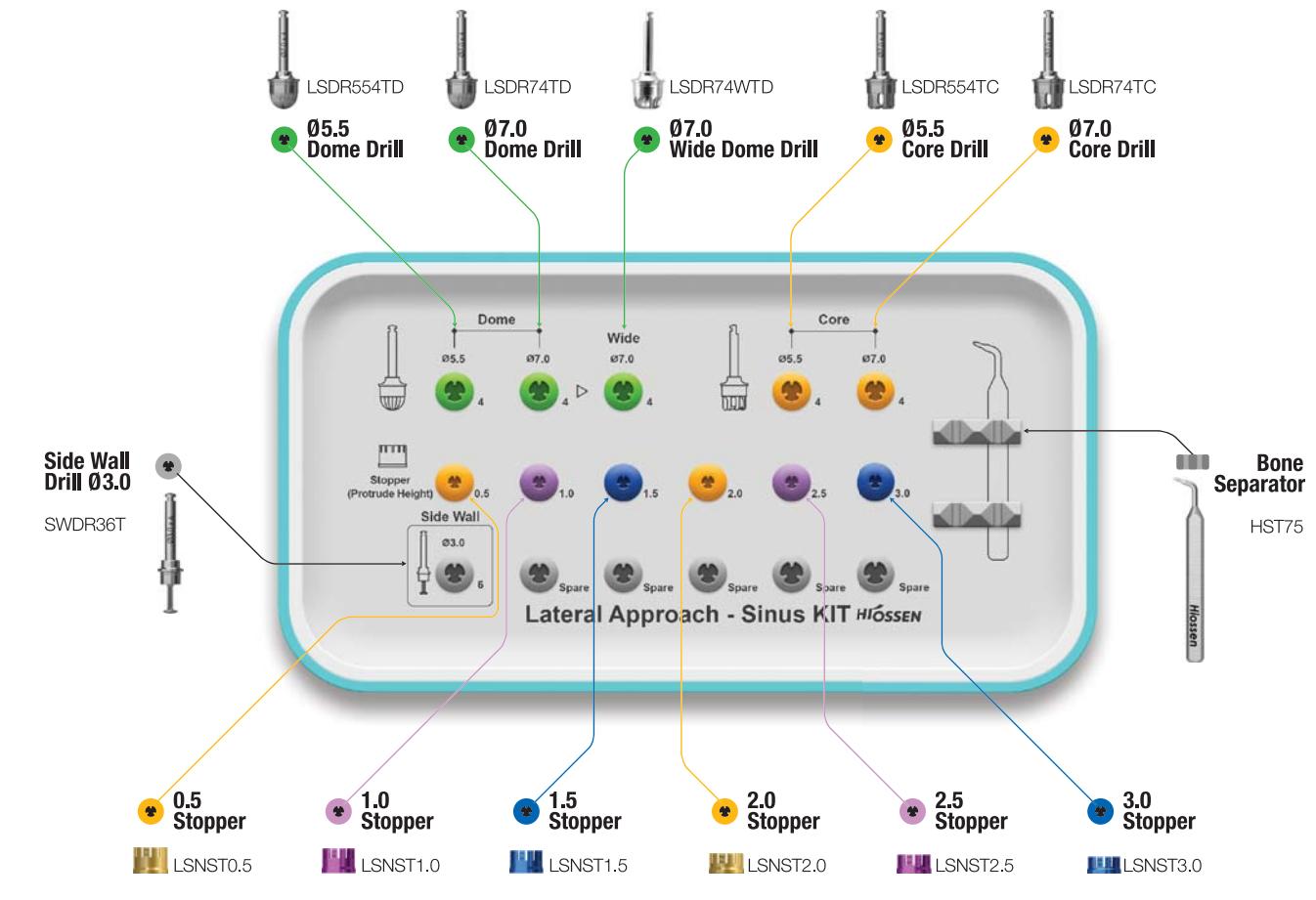


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OSSTEM KIT

LAS Full KIT (HLRSNKP)

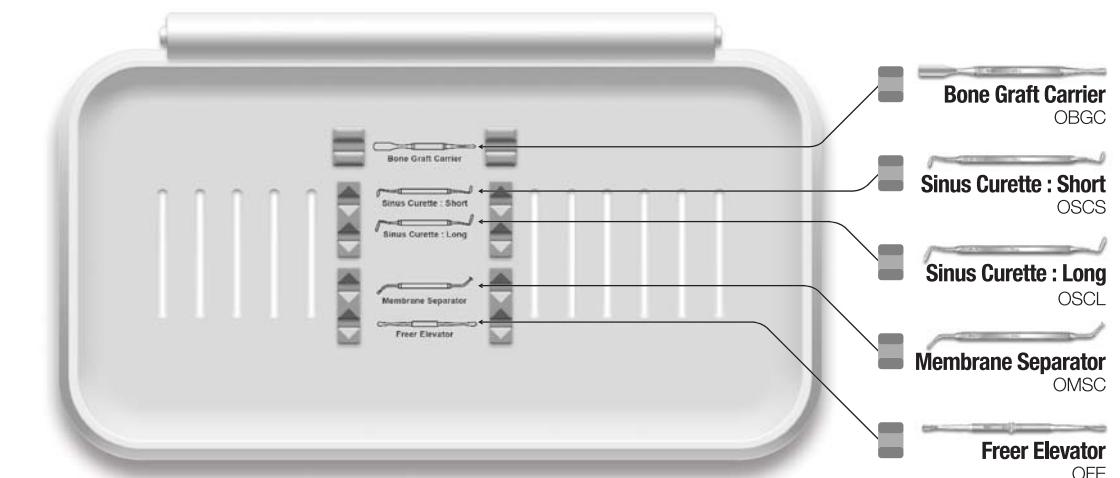
- Incorporates 6 additional sinus lifting tools to LAS KIT



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OSSTEM KIT

LAS KIT Plus Lower Plate

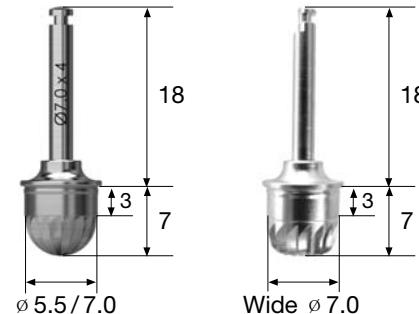


LAS KIT Surgical Instruments

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

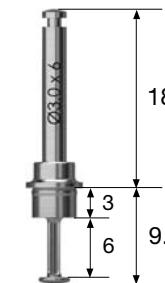
L	D	Ø5.5	Ø7.0
25		LSDR554TC	LSDR74TC



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						H
-----------------------------------	--	--	--	--	--	---

※ Stopper safely controls the penetration depth

Bone Separator

- Removes the bone lid inside the core drill



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	
Yellow	LSNST0.5	Purple	LSNST1.0	Blue	Yellow	Purple

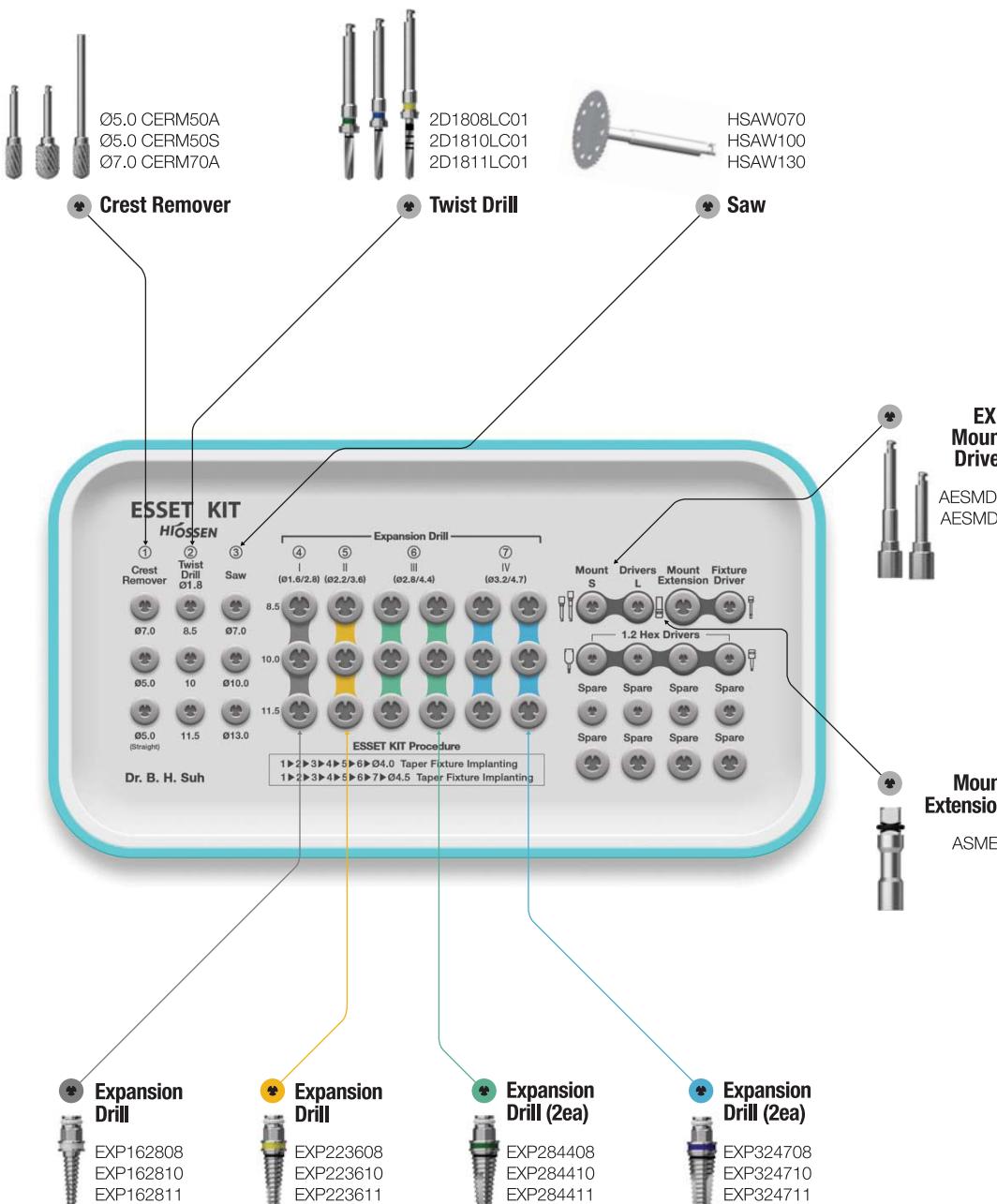
Color LSNST0.5 LSNST1.0 LSNST1.5 LSNST2.0 LSNST2.5 LSNST3.0

ESSET KIT (HESEK)

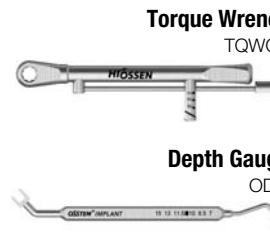


ESSET KIT Surgical Instruments

For TSII / III SSII / III USII / III



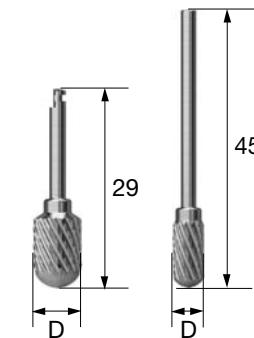
Lower panel components



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

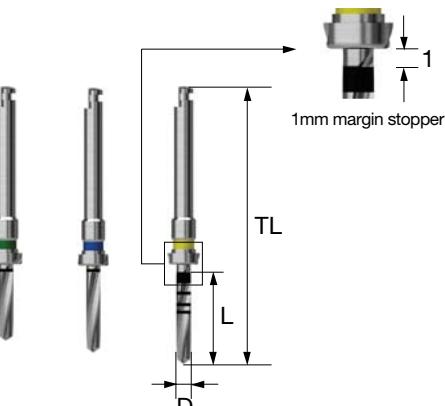
L \ D	Ø5.0	Ø7.0
29	CERM50A	CERM70A
45	CERM50S	-



Twist Drill

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

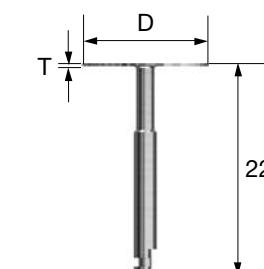
L \ TL \ D	Ø1.8
8.5 33	2D1808LC01
10 34.5	2D1810LC01
11 36	2D1811LC01



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	RA231DC070	RA231DC100	RA231DC130

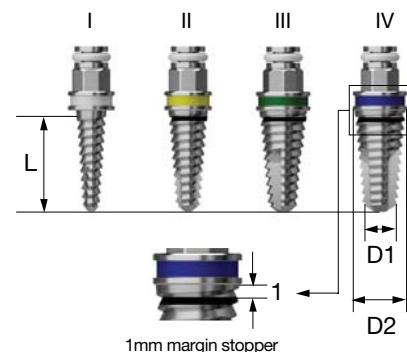


ESSET KIT

Surgical Instruments

Expansion Drill

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

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OSSTEM KIT

Mount Extension

- Connect with SET drills for manual torque



ASMEL

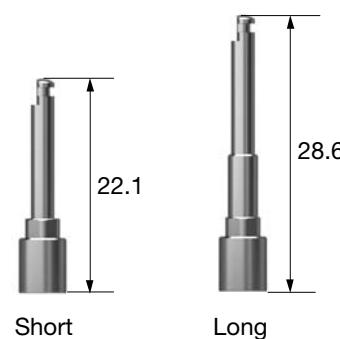


Torque handle

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

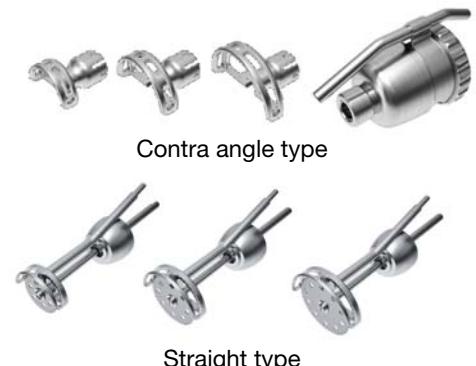


Short

Long

Saw Protector

- Saw cover prevents debris from ejecting outside the oral cavity and protects adjacent 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



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

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OSSTEM KIT

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

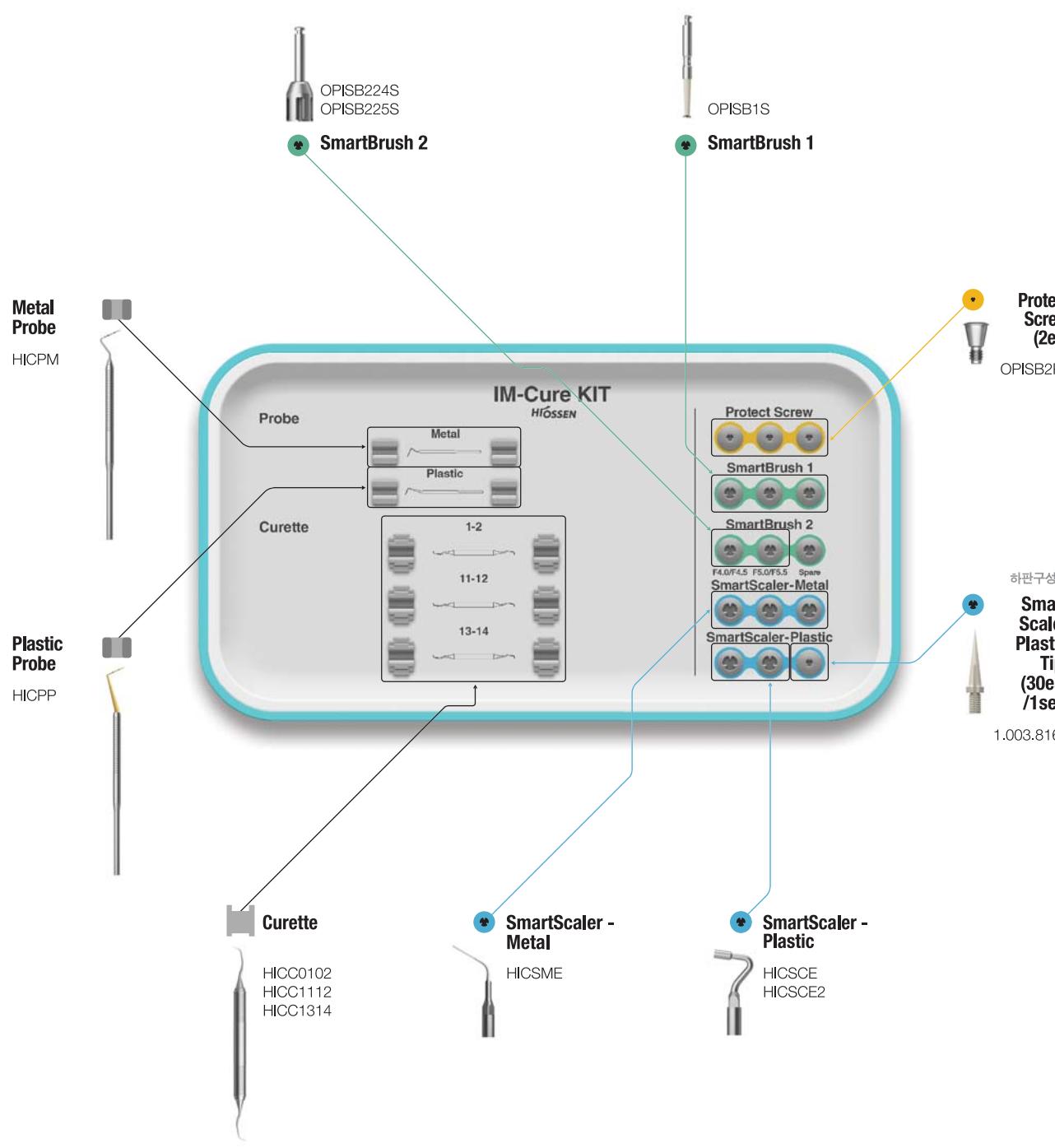


ODG

IM-Cure KIT (HICK)



IM-Cure KIT Surgical Instruments



Metal Probe

- Instruments measuring depth of periodontal disease
- Measurement of periodontal depth/size
- Marking line probable in 1mm increments



HICPM

Plastic Probe

- Instruments measuring depth of peri-implantitis and periodontal disease
- Plastic material prevents implant scratches
- Flexible probe makes it suitable for bent shape of alveolar bone
- Autoclave available
- Marking line probable in 1mm increments



HICPP

Curette

- A device for removing gingival precipitate firmly attached to the tissue of a specific area
- Gracey curette
- 01-02 : used for removal of anterior tissue
- 11-12 : used for removal of ganglion tissue
- 13-14 : used to remove the tissue from the distal part of posterior teeth



Type	01-02	11-12	13-14
	HICC0102	HICC1112	HICC1314

IM-Cure KIT Surgical Instruments

Protect Screw

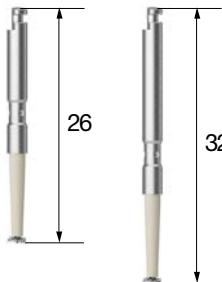
- When using SmartBrush 2, fixture internal connection is prevented from invading substance
- Using a 1.2 hex driver, tighten to about 5Ncm



Type	Mini	Regular
	OPISB2PM	OPISB2PR

SmartBrush 1

- Used for peri-implantitis cleaning
- After removing the patient's prosthesis and abutment, fix the prosthesis to the fixture
- Recommended speed : 1,200~1,500rpm
- Recommended use time : approximately 1 minute per screw thread recommended (not allowed for more than 4 minutes)
- Be sure to saline and suction during polishing
- Disposable, prohibited reuse (must be discarded after use)



L	
Short	OPISB1S
Long	OPISB1L

SmartBrush 2

- Used for peri-implantitis cleaning
- After removing the patient's prosthesis and abutment, fix the protect screw to the fixture and use it
- Must be saline during polishing
- Recommended speed : 1,200~1,500rpm
- Recommended use time : 1~2 minutes
- Excessive use for more than 3 minutes may cause the product to break or bend



L \ D	F3.0 / F3.5	F4.0 / F4.5	F5.0 / F5.5	F6.0	F7.0
Short	OPISB23S	OPISB24S	OPISB25S	OPISB26S	OPISB27S
Long	OPISB23L	OPISB24L	OPISB25L	OPISB26L	OPISB27L

SmartScaler - Metal

- Used to remove substances from the surface of tartar or fixture by fastening to ultrasonic scaler
- Secondary use after using SmartBrush 1 or SmartBrush 2
- Bending tip for easy access
- EMS, KaVo, SATELEC specifications



Type	EMS	KaVo	SATELEC
	HICSMEME	HICSMK	HICSMS

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OSSSTEM KIT

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OSSSTEM KIT

SmartScaler - Plastic

- Used in combination with SmartScaler plastic tip
- Do not use for removal of surface substances
- EMS, KaVo, SATELEC specifications
- A = Angle



A \ Type	EMS	KaVo	SATELEC
125°	HICSCSCE	HICSCSK	HICSCS
100°	HICSCSCE2	HICSCSK2	HICSCS2

SmartScaler Plastic Tip

- Used to remove substances from abutment or crown by fastening to SmartScaler
- Do not use to fixture surface
- Packing unit : 30ea/1set



1.003.8168

Tighten

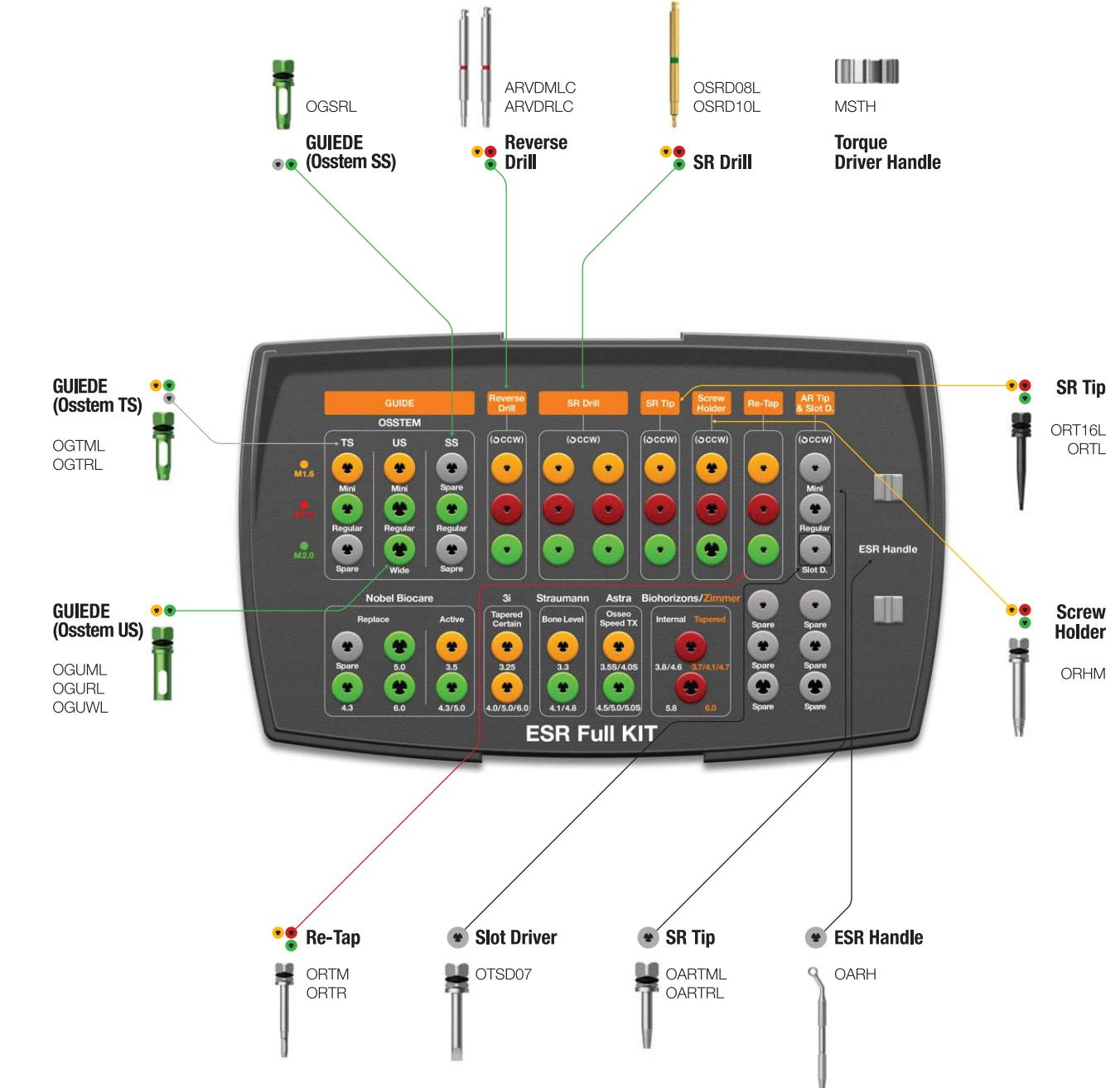
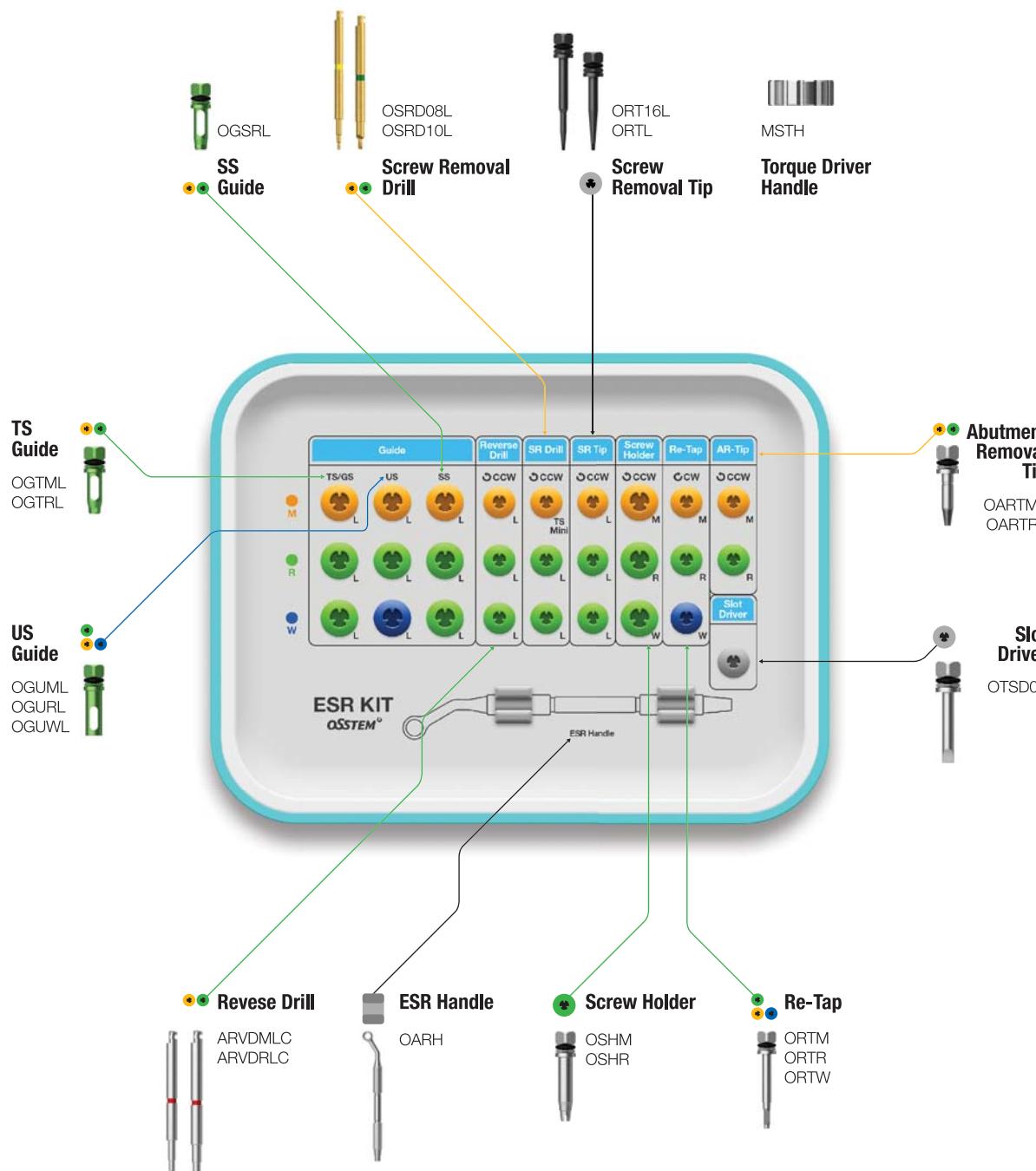
ESR KIT Easy Screw Removal KIT (OESRK)



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			Tapered Certain			Straumann			Bone Level			Roxolid SLActive							
Nobel	Active	Replace	3i	OGNA01L	OGNR02L	OGNR03L	OGNR04L	OGIF01L	OGIF02L	OGZB01L	OGZB02L	OGUBS	OGUBL	Zimmer	Tapered	OGZB01L	OGZB02L	OGSTROS	OGSTROL
Astra	Osseo Speed TX	Biohorizons	Internal	External	Zimmer	Tapered	OGAO01L	OGAO02L	OGZB01L	OGZB02L	OGUBS	OGUBL	OGZB01L	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

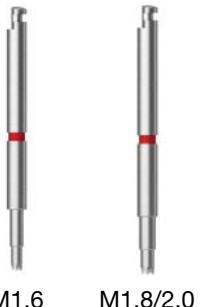
Astra

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

3i

Full Osseotite Tapered Certain			
F \ Type		F \ Type	
Short	Long	Short	Long
			
3.25	OGIF01S OGIF01L	Ø4.0	OGURS OGURL
4.0	OGIF02S OGIF02L	Ø5.0	OGURS OGURL
5.0	OGIF02S OGIF02L	Ø6.0	OGURS OGURL
6.0	OGIF02S OGIF02L		



Reverse Drill

- Equipment used to remove fracture screw
- Be sure to use with guide that matches fixture
- If the red marking of the reverse driver is visible on the guide fastened to the fixture, remove the fracture screw using a screw holder
- For hand mode / Direction of rotation : counter clockwise / The number of use : 10 times
- F = Fixture

L \ Type	M1.6	M1.8	M2.0
Short	-	ARVDRSC	ARVDRSC
Long	ARVDMLC	ARVDRLC	ARVDRLC

M1.6 M1.8/2.0

Zimmer

Tapered	
F \ Type	
Short	Long
	
Green (3.7)	OGZB01S OGZB01L
Green (4.1)	OGZB01S OGZB01L
Green (4.7)	OGZB01S OGZB01L
Green (6.0)	OGZB02S OGZB02L



Screw Removal Drill (SR Drill)

- Used to remove for the formation of holes in the fractured screw
- Make sure to connect the guide, irrigate with saline solution and remove any debris by suction
- Available in long and short lengths for different intermaxillary distances
- Drill until the red color marker is no longer visible
- Recommended speed: 1,200~1,500 rpm (counterclock wise) / Number of uses : 5 times
- ※ Connect the guide before use/Do not apply excessive vertical force / Do not clean with hydrogen peroxide
- ※ Disposable; do not re-use
- Short : single unit purchase available

L \ Type	M1.6	M1.8	M2.0
Short	OSRD08S	OSRD09S	OSRD10S
Long	OSRD08L	OSRD09L	OSRD10L

M1.6 M1.8 M2.0

Biohorizons

Internal (Tapered Bone Level)		External	
F \ Type		F \ Type	
Short	Long	Short	Long
			
Yellow	OGZB01S OGZB01L	Ø3.5	OGUMS OGUML
Green	OGZB01S OGZB01L	Ø4.0	OGURS OGURL
Blue	OGZB02S OGZB02L	Ø5.0	OGUBS OGUBL
		Ø6.0	OGUBS OGUBL



Torque Driver Handle

- Manual handle for SR Tip, AR Tip, screw holder

MSTH

ESR Full KIT Surgical Instruments

Reverse Driver

- Removes fractured screws
- Select the proprieate 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



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



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
	OSHMS	OSHR18	OSHR



ESR Handle

- Tools to fix guide to fixture



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 fractured 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



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

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

OSSTEM[®]
IMPLANT

Driver	Body	Set
TASD	TASB	TAST

EFR KIT Easy Fixture Removal KIT (OSFRK)

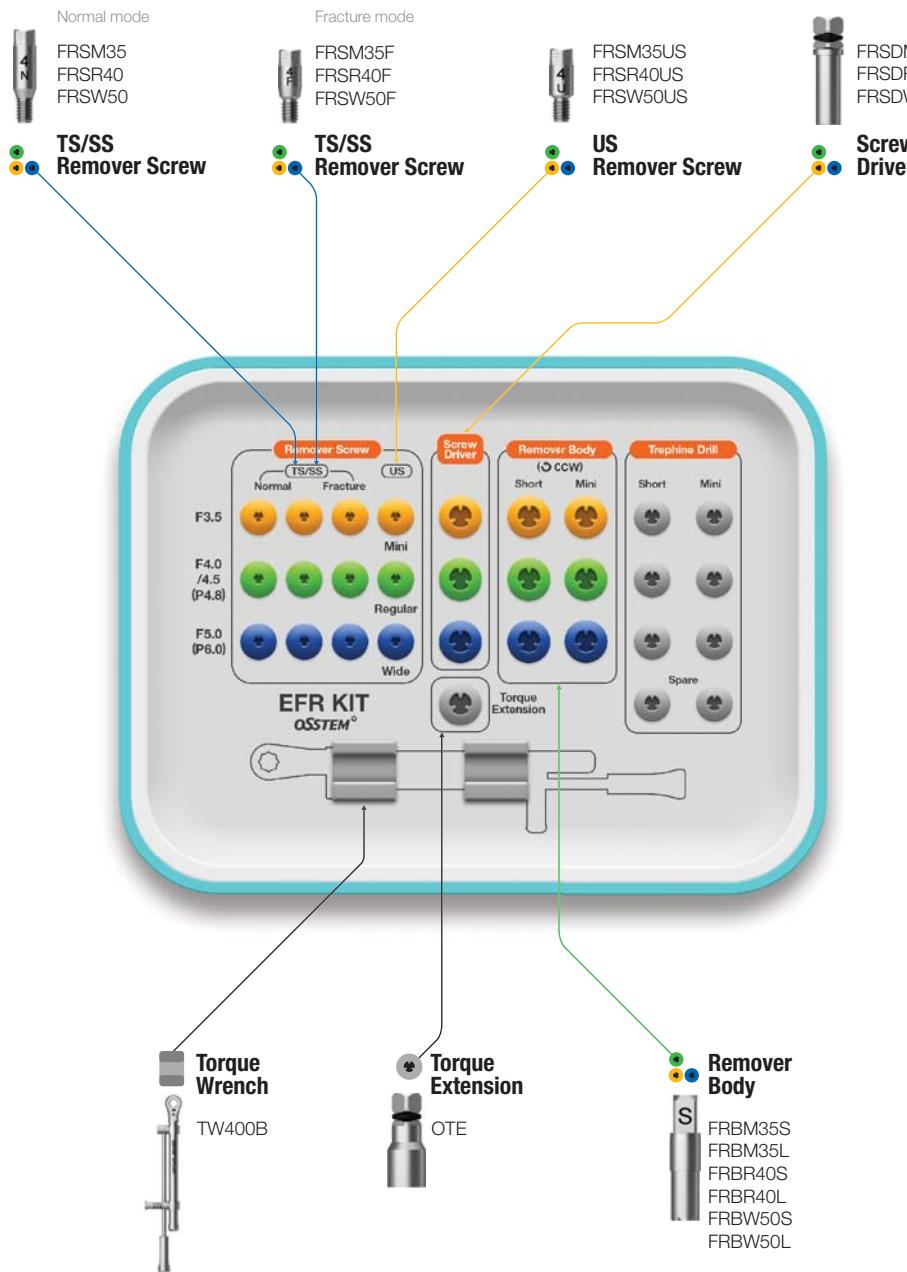


For **TSII / III** **SSII / III** **USII / III** **Ultra-wide**

Top panel components

Fixture Wrench

FRDFE



EFR Full KIT Easy Fixture Removal Full KIT (OSFRFK)

• KIT has the same components as EFR KIT and can be put on competitors' components

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

Lower panel components

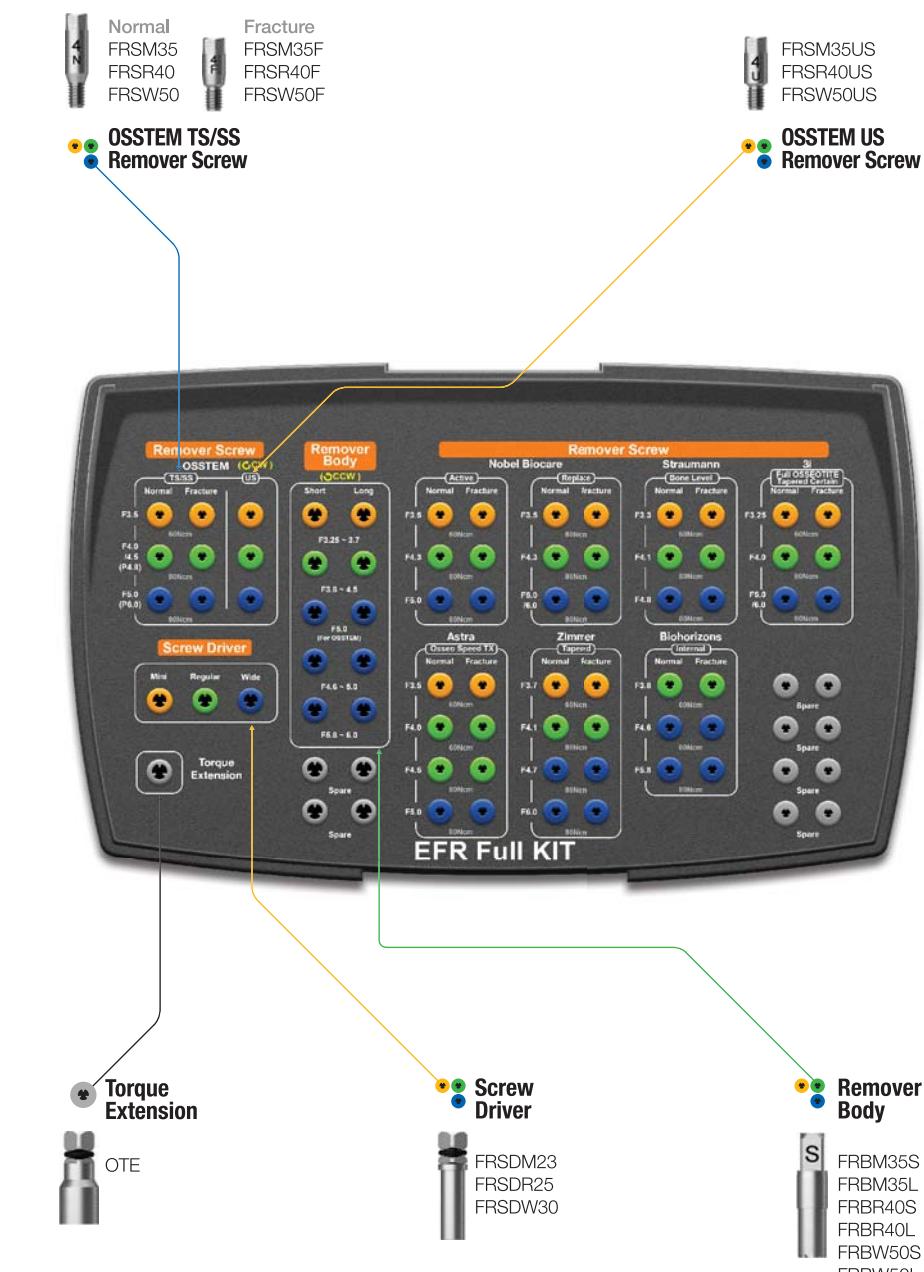
Fixture Wrench

FRDFE



Torque Wrench

TW400B



EFR Full KIT Surgical Instruments

Items that are not included in the KIT

Remover Screw					
Nobel Active Replace					
Normal	Fracture	Normal	Fracture		
FRSMNA35	FRSMNA35F	FRSMNR35	FRSMNR35F		
FRSR40	FRSR40F	FRSR40	FRSR40F		
FRSW50	FRSW50F	FRSW50	FRSW50F		
Straumann Bone Level	3i	Full Osseotite Tapered Certain	Biohorizons	Internal	
Normal	Fracture	Normal	Fracture	Normal	Fracture
FRSM33	FRSM33F	FRSMI325	FRSMI325F	FRSRZ41	FRSRZ41F
FRSR41	FRSR41F	FRSR40	FRSR40F	FRSWZ47	FRSWB46F
FRSWS48	FRSWS48F	FRSWI50	FRSWI50F	FRSWZ60	FRSWB46F
Zimmer Tapered	Astra	Osseo Speed TX	Remover Body		
Normal	Fracture	Normal	Fracture	FRBW57S	
FRSMZ37	FRSMZ37F	FRSMNA35	FRSMNA35F	FRBW57L	
FRSRZ41	FRSRZ41F	FRSR40	FRSR40F	FRBUW60S	
FRSWZ47	FRSWZ47F	FRSR40	FRSR40F	FRBUW60L	
FRSWZ60	FRSWZ47F	FRSW50	FRSW50F		

Remover Screw

- Connects to the failed implant and serves to support the remover body
- Available in different sizes to match the diameter of the fixture to be removed (TS/SS/US, normal/fracture)
- Fracture type is specifically for removing a fractured fixture
- Recommended tightening torque : regular/wide 100Ncm, mini 80Ncm
- ※ Disposable; do not re-use
- T = Type



Osstem

T	Mode	Mini Ø3.5/-	Regular Ø4.0~4.5/P4.8	Wide Ø5.0/P6.0
TS/SS	Normal	FRSM35	FRSR40	FRSW50
	Fracture	FRSM35F	FRSR40F	FRSW50F
US		FRSM35US	FRSR40US	FRSW50US

Nobel Biocare

T	Mode	Mini Ø3.5	Regular Ø4.3	Wide Ø5.0/6.0
Active	Normal	FRSMNA35	FRSR40	FRSW50
	Fracture	FRSMNA35F	FRSR40F	FRSW50F
Replace	Normal	FRSMNR35	FRSR40	FRSW50
	Fracture	FRSMNR35F	FRSR40F	FRSW50F

Straumann

T	Mode	Mini Ø3.3	Regular Ø4.1	Wide Ø4.8
Bone Level	Normal	FRSMS33	FRSRS41	FRSWS48
	Fracture	FRSMS33F	FRSRS41F	FRSWS48F

Astra

T	Mode	Mini Ø3.5	Regular Ø4.0	Regular Ø4.5	Wide Ø5.0
Osseo Speed TX	Normal	FRSMNA35	FRSRA40	FRSR40	FRSW50
	Fracture	FRSMNA35F	FRSRA40F	FRSR40F	FRSW50F

3i

T	Mode	Mini Ø3.25	Regular Ø4.0	Wide Ø5.0/6.0
Full Osseotite Tapered Certain	Normal	FRSMI325	FRSR40	FRSWI50
	Fracture	FRSMI325F	FRSR40F	FRSWI50F

Zimmer

T	Mode	Mini Ø3.7	Regular Ø4.1	Wide Ø4.7	Ultra-wide Ø6.0
Tapered	Normal	FRMZ37	FRSRZ41	FRSWZ47	FRSWZ60
	Fracture	FRMZ37F	FRSRZ41F	FRSWZ47F	FRSWZ47F

Biohorizons

T	Mode	Mini Ø3.8	Regular Ø4.6	Wide Ø5.8
Internal	Normal	FRSRZ41	FRSWZ47	FRSWZ60
	Fracture	FRSRZ41F	FRSWB46F	FRSWB46F

EFR Full KIT Surgical Instruments

Screw Driver

- Connects and fastens the remover screw to the fixture
- Recommended tightening torque : regular/wide 100Ncm, mini 80Ncm
- F = Fixture



F	Mini	Regular	Wide
	FRSDM23	FRSDR25	FRSDW30

Torque Wrench

- Connect with screw driver to fasten and remover body to remove the fixture
- Applies up to 400Ncm of torque (markers at 80/100/200/300/400Ncm)
- Torque by pulling the bar back until reaching the desired torque value
- Clean and sterilize for storage



TW400B

Remover Body

- 160
- Connects to a failed fixture via the remover screw and by applying counterclock wise torque, removes the implant
 - Available in different sizes to match the diameters of the fixture to be removed
 - ※ Disposable; do not re-use
 - F = Fixture



F	Mini	Regular	Only for osstem Wide	Only for overseas companies Wide	Ultra-wide
Short	FRBM35S	FRBR40S	FRBW50S	FRBW57S	FRBUW60S
Long	FRBM35L	FRBR40L	FRBW50L	FRBW57L	FRBUW60L

Fixture Wrench

- Removes implants from the remover body after removing the fixture from the bone



FRDFF

Torque Extension

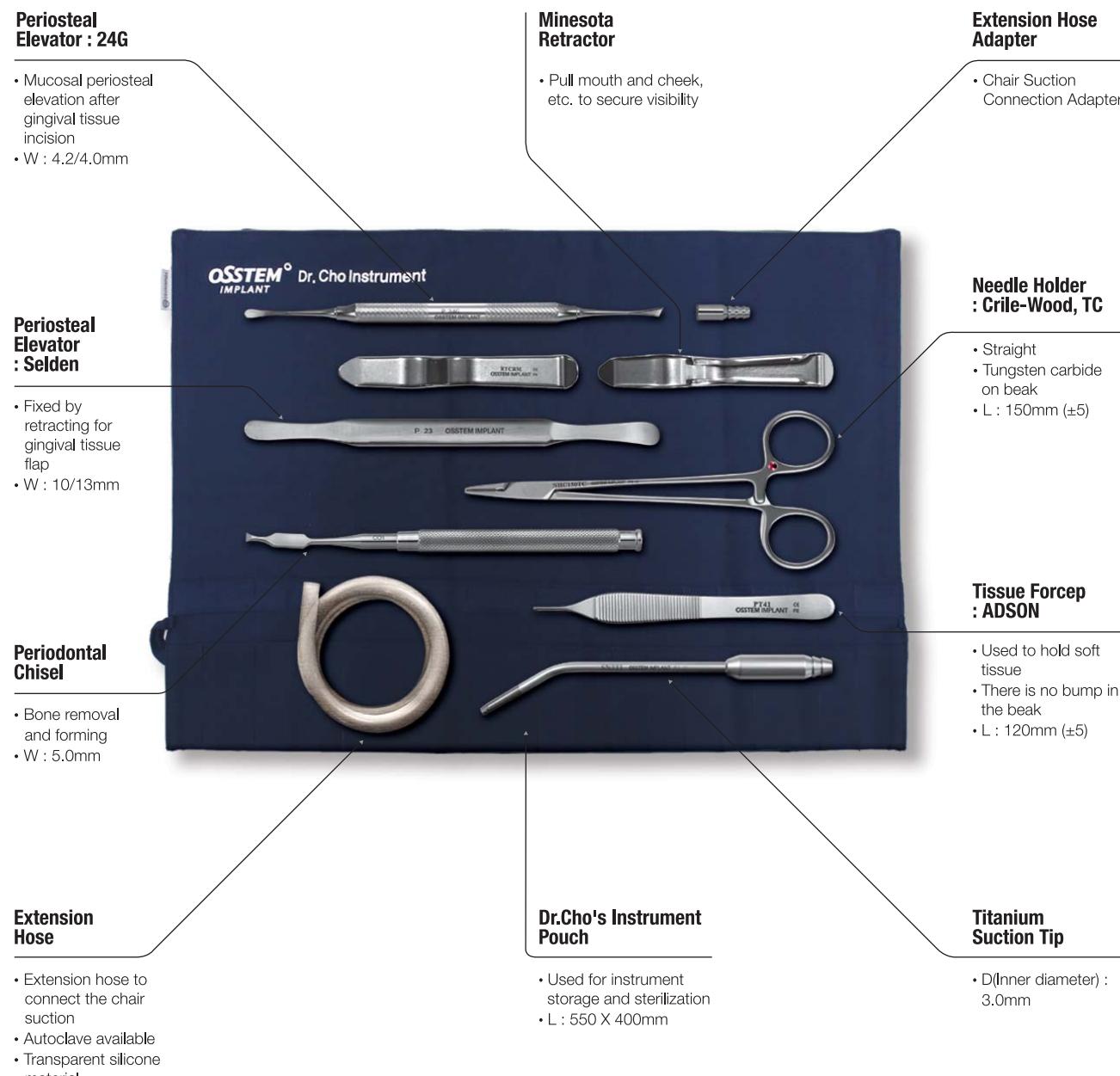
- Extends the length of the screw driver and remover body (by 10mm)



OTE

Dr. Cho's Instrument KIT (DCHOKIT)

- Based on many years of clinical know-how, it has been selected to be the best implant surgery KIT
- 10 kinds of instruments (1ea for each)

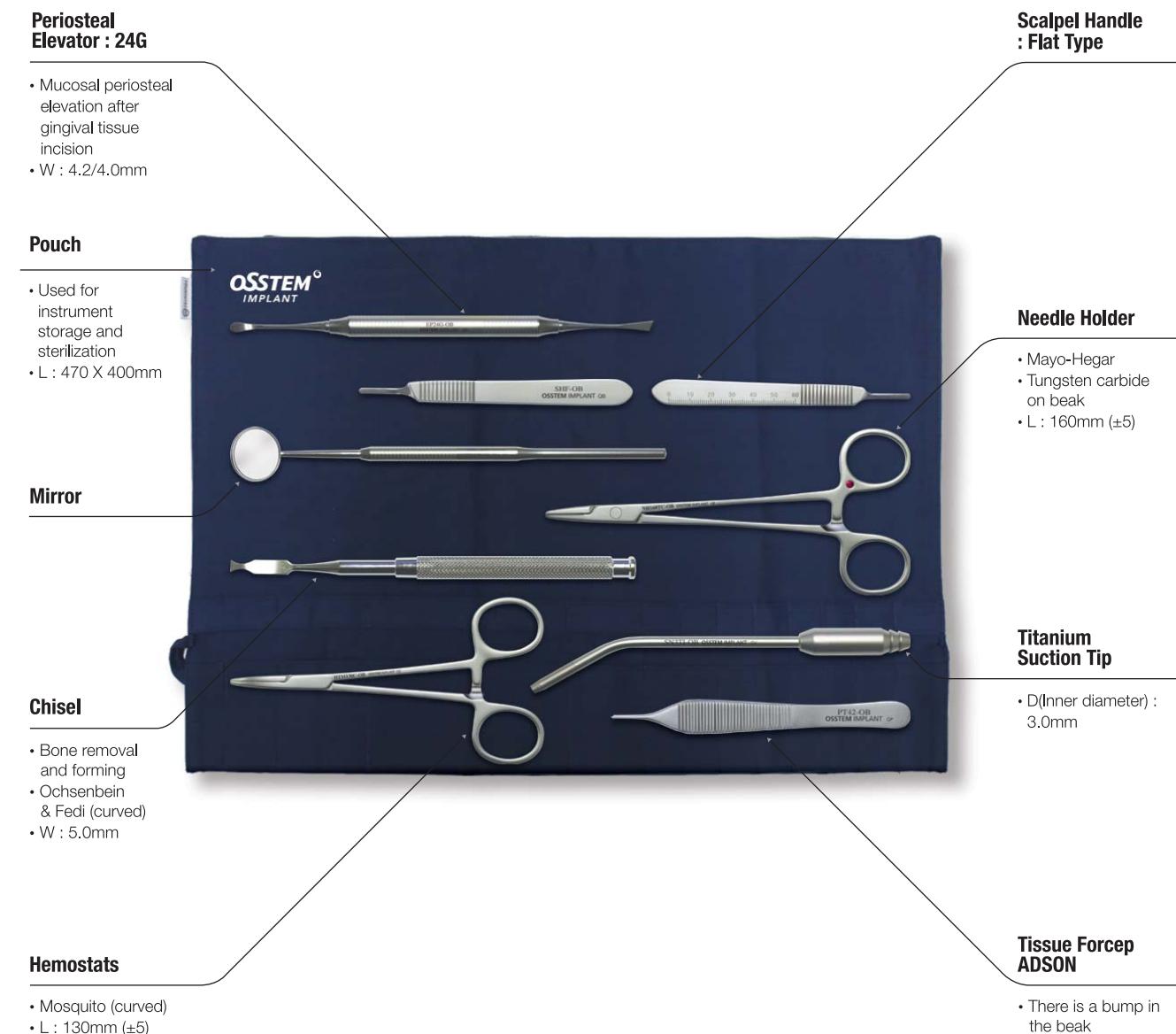


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OSSTEM KIT

Osstem Basic Instrument KIT (OBKIT)

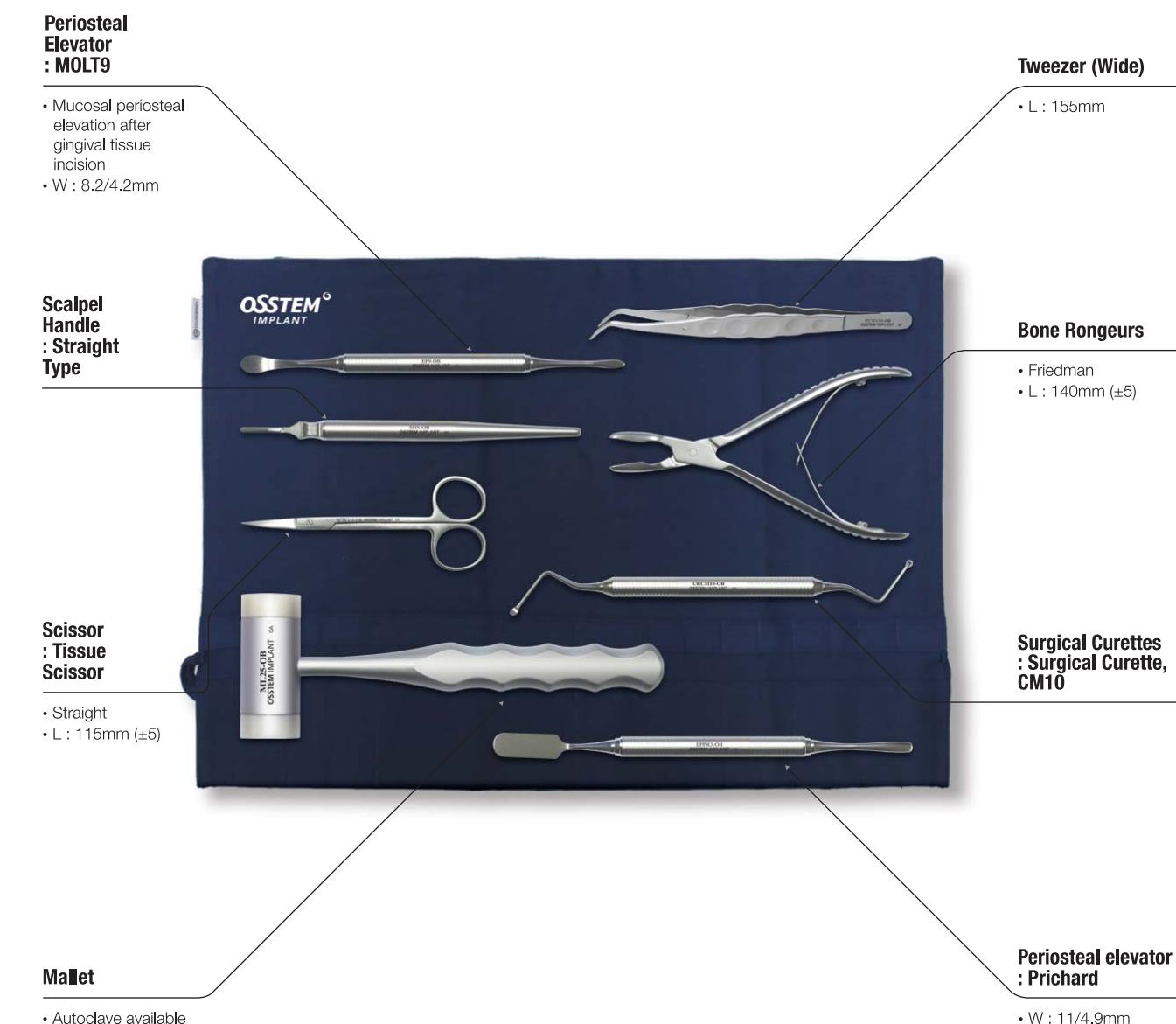
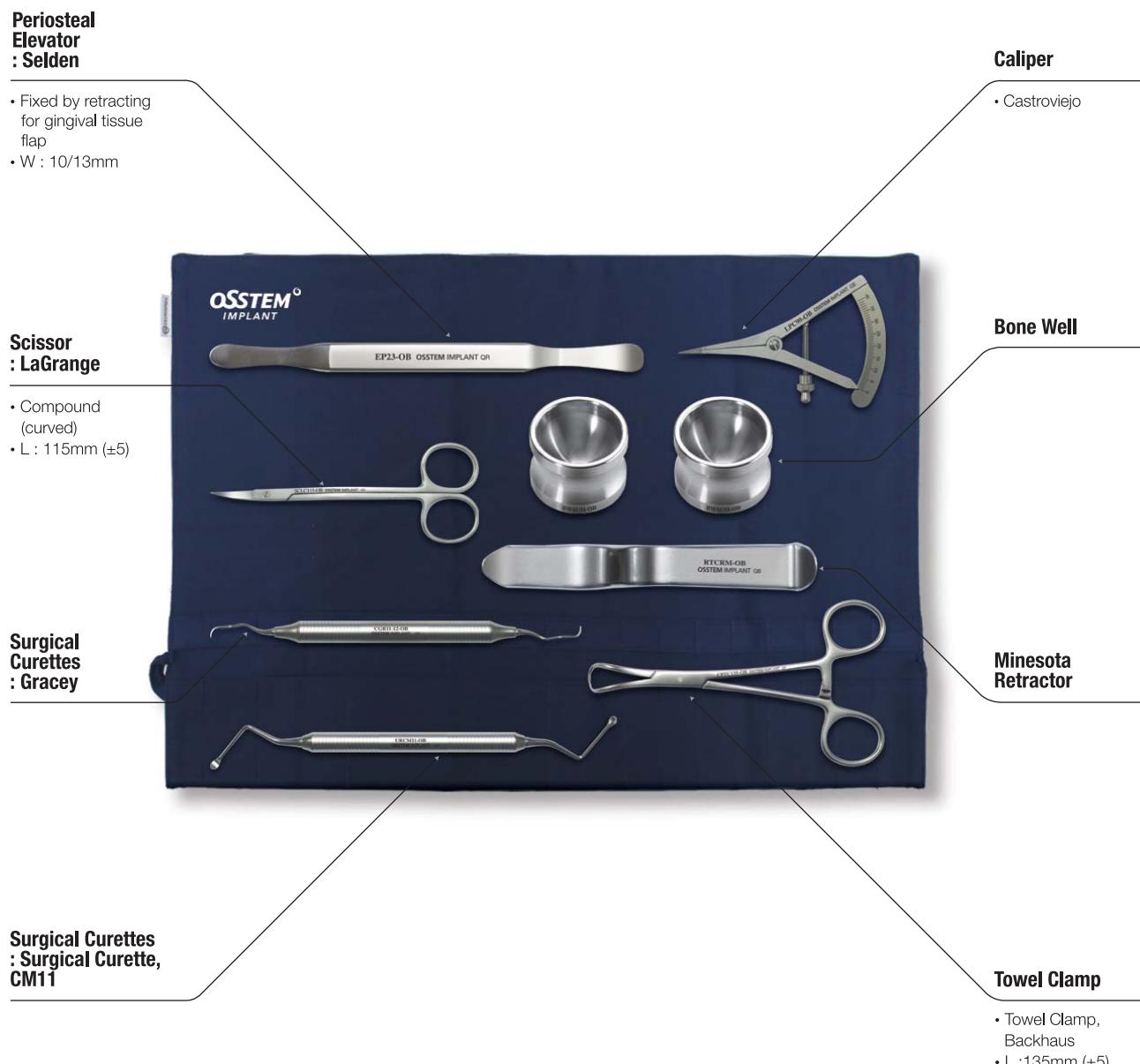
- Commonly used Implant surgery KIT
- 25 species Instrument (1ea each)



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OSSTEM KIT

Osstem Basic Instrument KIT (OBKIT)



Custom KIT (OCTK)

- Sterilizable case for storing extra tools
- Includes three types of rubber (large, medium, and small) holders
- Sterilization parameters (132°C, 15min)



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OSSTEM KIT

Healing Case (OHAC)

- Case for temporary storage and cleaning of healing abutment during prosthodontic process
- Additional restorable upper prosthesis : transfer / temporary / angled / cover screw / pick-up & transfer impression coping / OB anchor / temporary crown (only healing abutment can be combined with top plate)
- Upper and lower mandible, same as tooth arrangement, left and right 7 spaces, total 28 spaces
- Sterileable material (132°C, 15min), sterilized at case reuse

※ This product is not a case for reuse of healing abutment

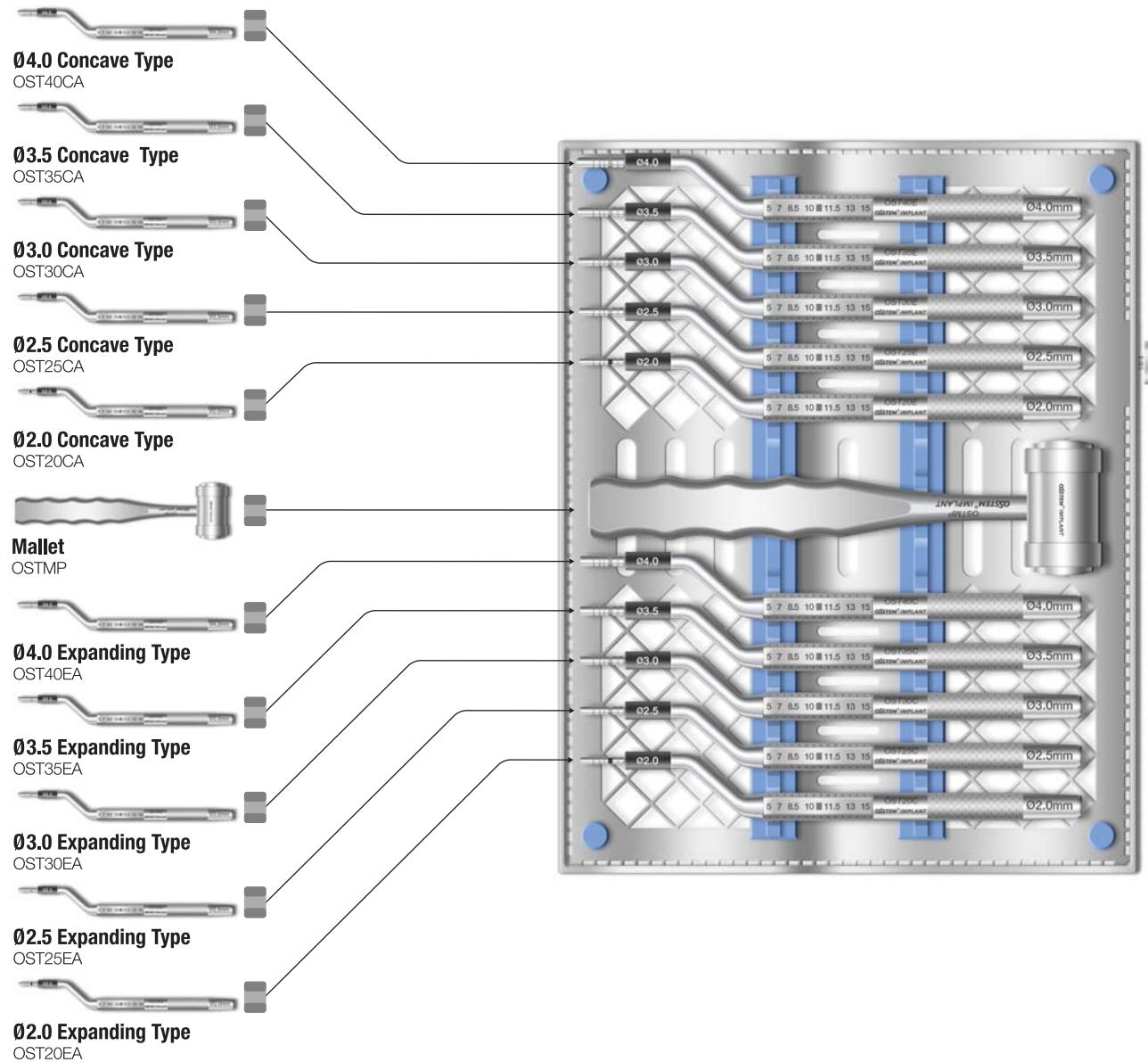


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OSSTEM KIT

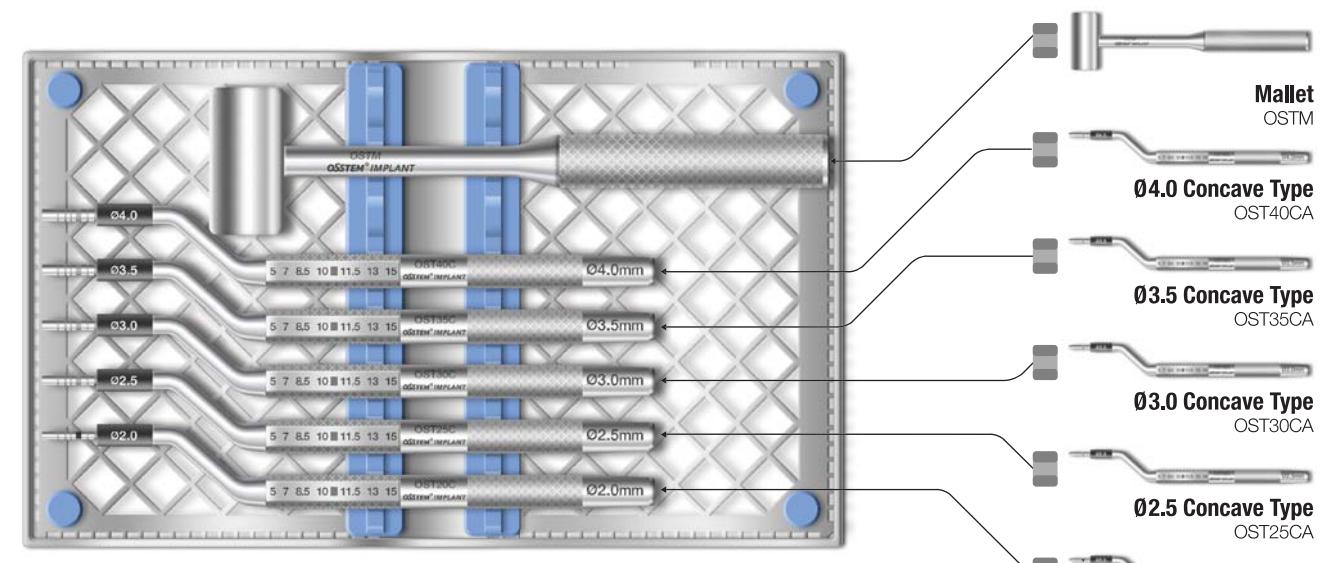
Osteo KIT (OSTK)

- Crestal approach sinus lift surgery
- Osteotome is designed to compact bone while penetrating the sinus floor
- Includes stopper system for safe and controlled penetration



Osteotome KIT (AOST)

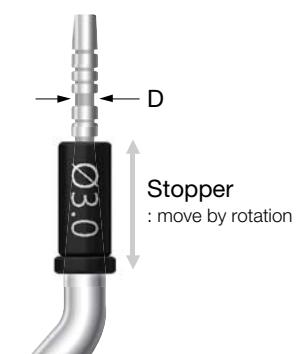
- Crestal approach sinus lift surgery
- Concave type only
- Includes stopper system for safe and controlled penetration



Osteotome Stopper

- Stopper for adjusting the depth

D	Ø2.0	Ø2.5	Ø3.0	Ø3.5	Ø4.0
	OST20SH	OST25SH	OST30SH	OST35SH	OST40SH

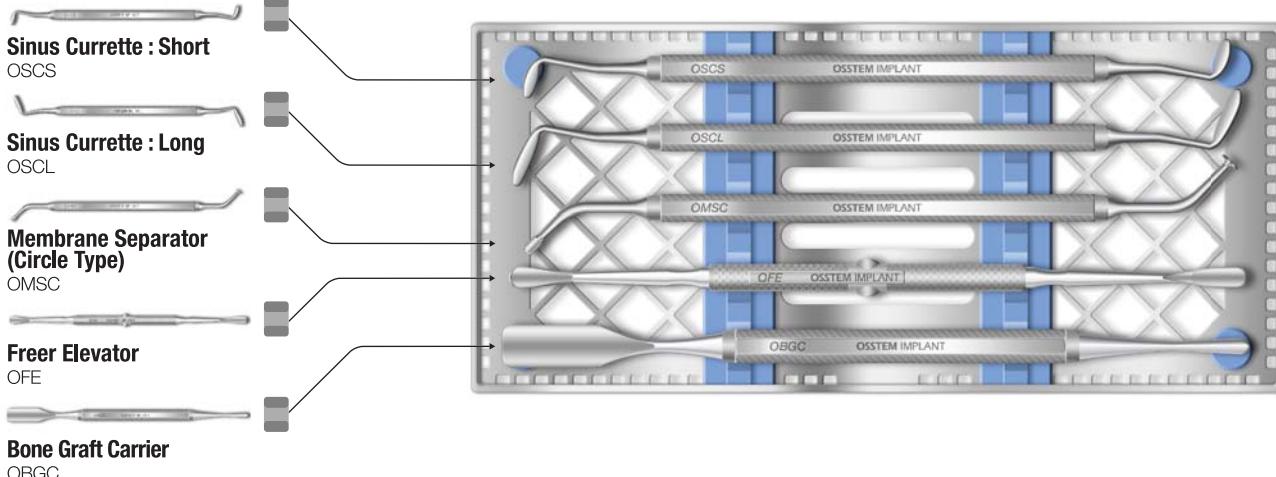


Sinus KIT (ASLK)

- Tools for lateral approach sinus floor elevation surgery
- Components (5 types)
 - Freer elevator : OFE
 - Bone graft carrier : OBGC
 - Membrane separator (circle type) : OMSC
 - Sinus curette-short : OSCS
 - Sinus curette-long : OSCL

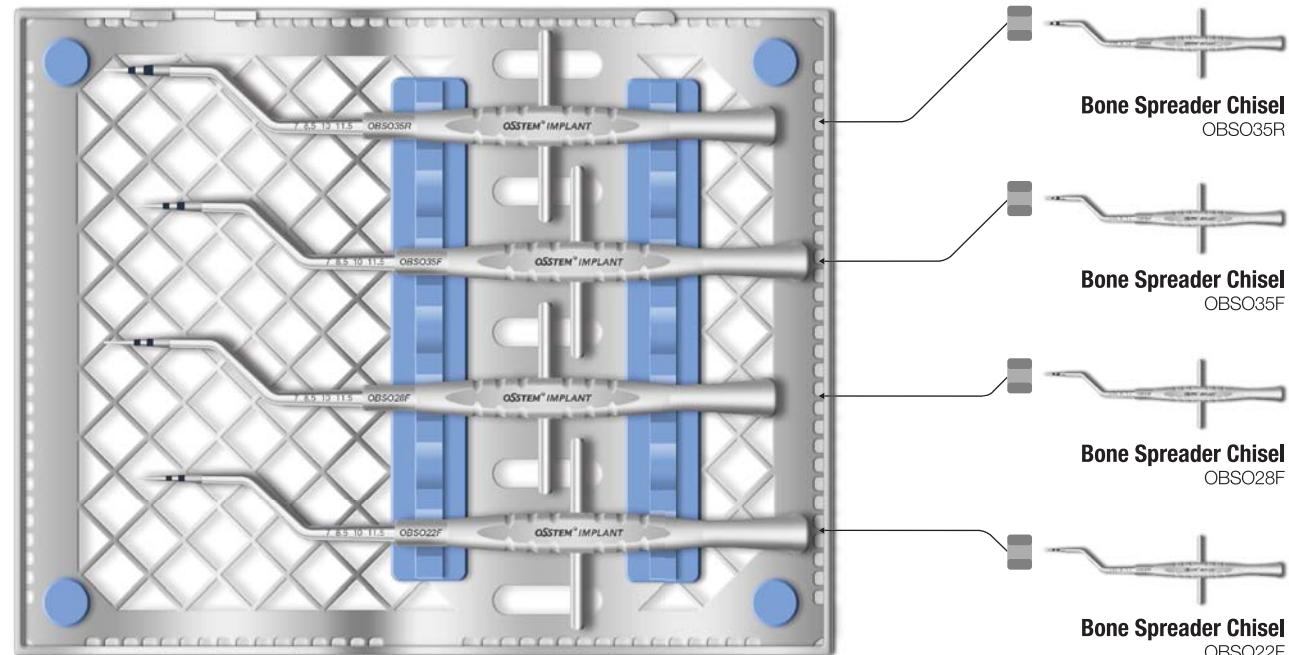
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OSSTEM KIT



Bone Spreader KIT (OBSOK)

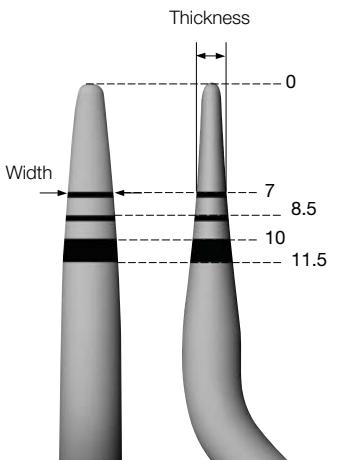
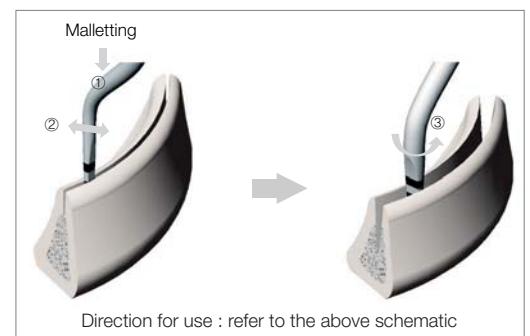
- Expands narrow alveolar ridge
- Offset type
- Components (4 types)
 - OBSO22F, OBSO28F, OBSO35F, OBSO35R



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OSSTEM KIT

- Use for alveolar bone expansion
- Offset type for easy operation
- Depth marking corresponding to the implant length



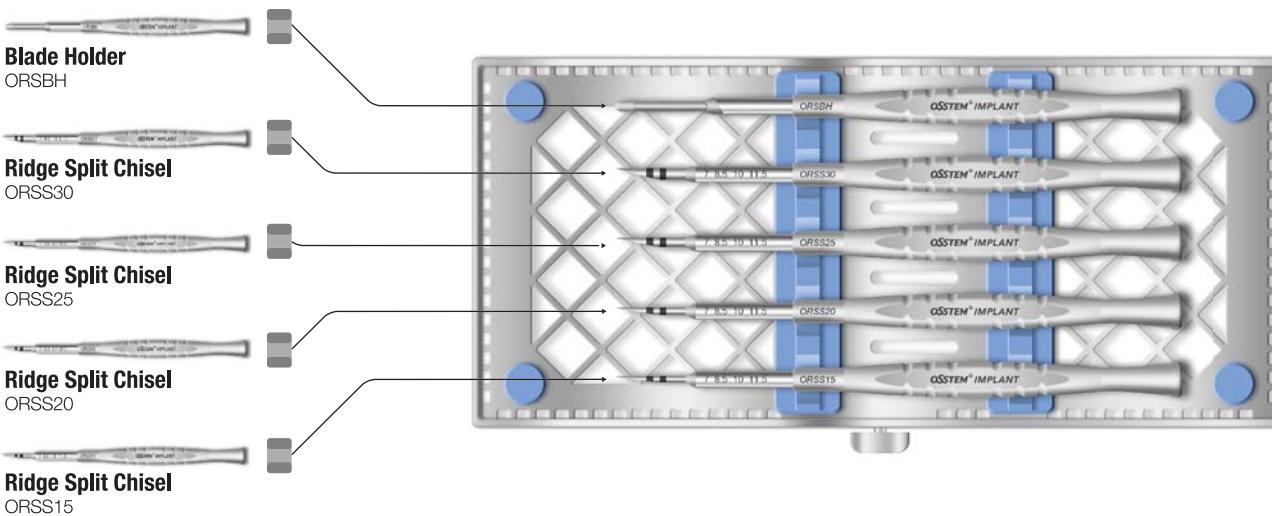
Code	Spec.	Tip length	7	8.5	10	11.5
		Thickness	1.15	1.3	1.45	1.6
OBSO22F	Width	2.1	2.2	2.2	2.2	
	Thickness	1.15	1.3	1.45	1.6	
OBSO28F	Width	2.65	2.8	2.8	2.8	
	Thickness	1.3	1.45	1.6	1.8	
OBSO35F	Width	3.3	3.5	3.5	3.5	
	Thickness	1.85	2.1	2.3	2.55	
OBSO35R (round type)	Width	3.3	3.5	3.5	3.5	
	Thickness	1.85	2.1	2.3	2.55	

(Unit : mm)

Ridge Split KIT Straight (ORSSK)

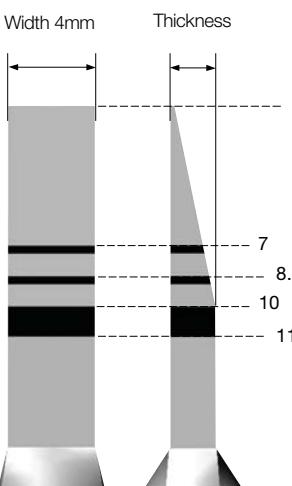
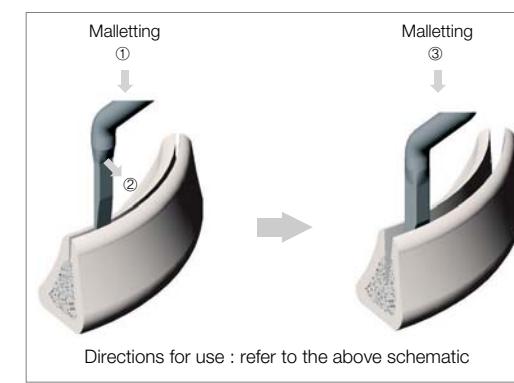
Straight

- Chisel : expands narrow alveolar ridge
- Blade holder : cuts poor bone quality using a bur, malletting is possible, use a #15 blade
- Components
 - Ridge split chisel : ORSS15, ORSS20, ORSS25, ORSS30
 - Blade holder : ORSBH



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OSSTEM KIT

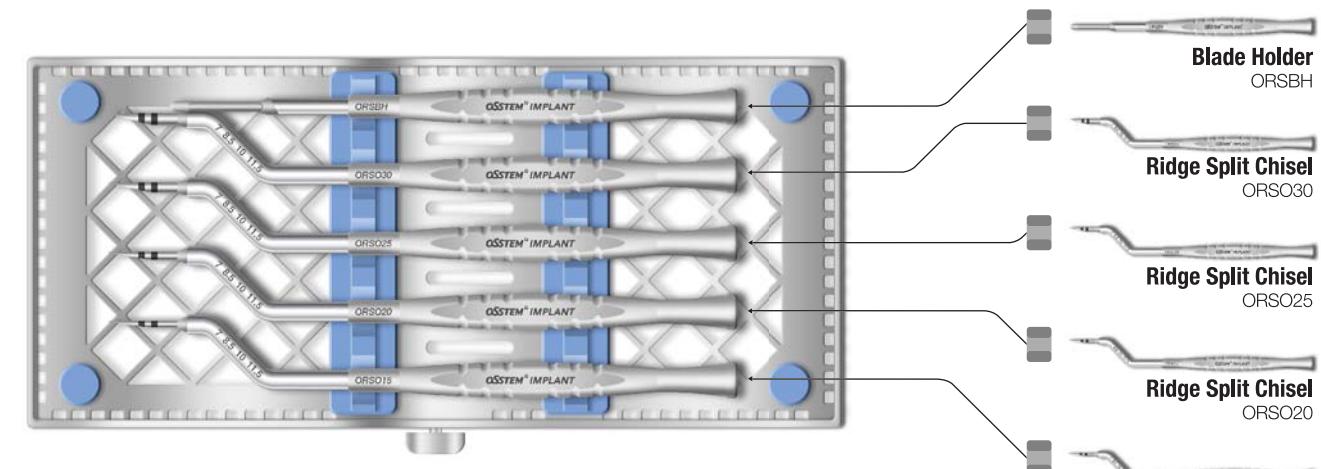


Code	Spec.	Tip length	(Unit : mm)			
			7	8.5	10	11.5
ORSS15	Thickness	1.1	1.27	1.5	1.5	
	Width	4	4	4	4	
ORSS20	Thickness	1.45	1.7	2.0	2.0	
	Width	4	4	4	4	
ORSS25	Thickness	1.8	2.15	2.5	2.5	
	Width	4	4	4	4	
ORSS30	Thickness	2.15	2.5	3.0	3.0	
	Width	4	4	4	4	

Ridge Split KIT Offset (ORSOK)

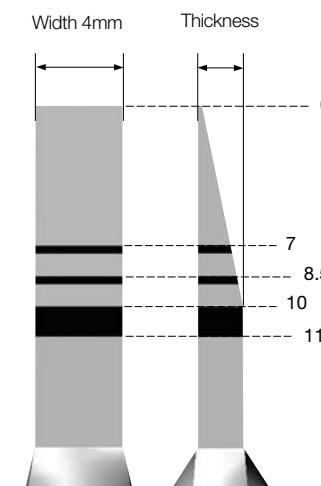
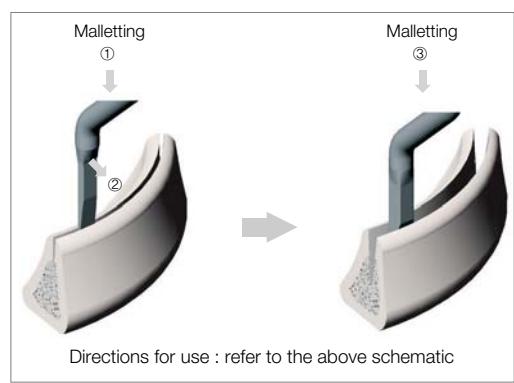
Offset

- Chisel : expands narrow alveolar ridge
- Blade holder : cuts poor bone quality using a bur, malletting is possible, use a #15 blade
- Components
 - Ridge split chisel : ORSO15, ORSO20, ORSO25, ORSO30
 - Blade holder : ORSBH



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OSSTEM KIT



Code	Spec.	Tip length	(Unit : mm)			
			7	8.5	10	11.5
ORSO15	Thickness	1.1	1.27	1.5	1.5	
	Width	4	4	4	4	
ORSO20	Thickness	1.45	1.7	2.0	2.0	
	Width	4	4	4	4	
ORSO25	Thickness	1.8	2.15	2.5	2.5	
	Width	4	4	4	4	
ORSO30	Thickness	2.15	2.5	3.0	3.0	
	Width	4	4	4	4	

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°C). 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 55Nm) 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 35Nm, 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 untreated occlusion/joint disorder, insufficient dental arch space
- Any patient who is not suitable for an surgery



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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





OSSTEM®
IMPLANT

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