OSSTEM IMPLANT

KIT PRODUCT CATALOG

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OSSTEM IMPLANT

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Osstem Implant
2018-19 Comprehensive Catalog

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CEO’S Message

Providing cutting edge technology and superior quality

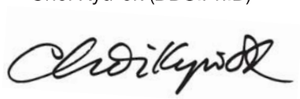
Making products that dentists want to use,
trust, and are satisfied with :
This is our mission at OSSEM IMPLANT

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

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

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

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



Worldwide & History

EMEA

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

ASIA / OCEANIA

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

N/S.AMERICA

USA	Colombia
Canada	Peru
Mexico	Costa Rica
Chile	

1997

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

2000

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

2001

01 Obtained CE-0434 certification
03 Established AIC training center

2002

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

2006

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

2007

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

2008

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

2009

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

2010

03 Launched TSIII SA line
06 Launched TSIII HA line

2011

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

2012

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

2013

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

2014

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

2015

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

2016

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

2017

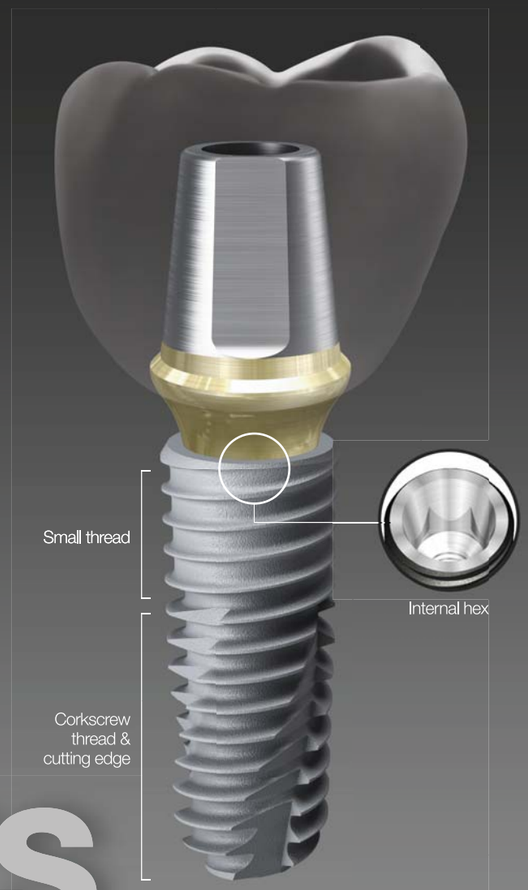
12 2017 presidential commendation for job creation

2018

01 TS exceeded 10 million production

OSSTEM Implant Design feature

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



Each implant system has its own unique color code

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

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

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

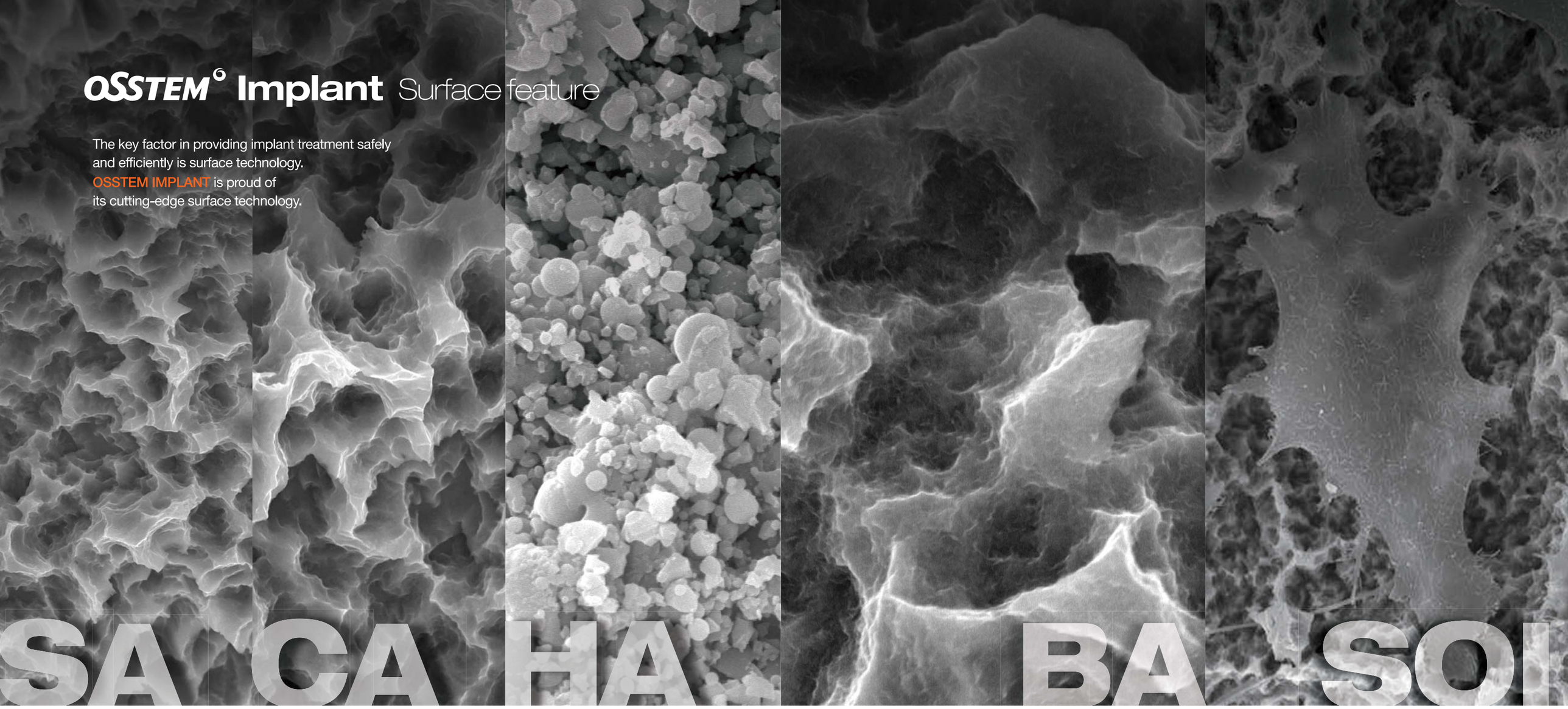
- Internal connection type - Regular / Wide
- Corkscrew thread with cutting edges
  - Strong self-threading effect for easy fixture path
  - Higher initial stability and consistent insertion torque
- Different body types to properly match the patient's bone quality and clinical condition
  - SSII (straight 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㎛ surface roughness (note : the upper 0.5mm part of the implant has Ra 0.5~0.6um)
- Consistent surface micro pits between 1 to 3㎛
- Surface area is increased by 46 percent compared to RBM treated implants

Super-hydrophilic SA surface suspended in a calcium solution

- Same SA surface morphology
- Optimizing surface reaction by suspension in a calcium ($CaCl_2$) 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㎛ thick high-crystalline HA coating
- HA coated onto a RBM surface (Ra 3.0 to 3.5㎛)
- High HA crystalline over 98 percent
- Solved the problem with low-crystalline HA resorption

Premium low crystalline nano-HA coated SA surface

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

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

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

In-vitro & In-vivo Bone Response

- 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

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

KIT Contents 1/3

KIT Contents 2/3

091 Trial Pin for Ultra-wide

102 **485 KIT**

103 485 Drill

106 123 Guide Drill

106 Lance Drill - Guide Drill

106 Sidecut Drill

107 Drill Extension

107 NoMount Driver for TS

107 NoMount Driver for SS

108 NoMount Driver for US

108 NoMount Torque Driver for TS

108 NoMount Torque Driver for SS

109 Fixture Driver for TS

109 Fixture Driver for SS

109 Fixture Driver for US

110 Torque Extension

110 Simple Mount Driver

110 Simple Mount Extension

110 Simple Open Wrench

111 Removal Tool for Fixture Mount

111 Depth Gauge

111 Positioning Guide

111 Tissue Height Gauge for TS

112 Ratchet Wrench

112 L-Wrench

112 Torque Wrench - Spring Type

112 Torque Wrench - Bar Type

113 Torque Wrench Set

113 Tissue Punch

114 TS Bone Profiler

114 US Bone Profiler

115 Trephine Drill

115 Machine Driver Handle

115 Bone Mill

116 Anterior Hand Driver for Implant

116 Torque Handle

118 **Prosthetic Simple KIT**

119 **Prosthetic KIT**

120 Hand Driver

120 Machine Screw Driver

121 Torque Driver

121 Angled Torque Driver

121 Repair Torque Driver

122 Solid Abutment Driver

122 O-ring Abutment Driver

122 Rigid Outer Driver

123 Excellent Solid Abutment Driver

123 Octa Abutment Driver

124 Multi Abutment Machine Driver

124 Abutment Holder

124 Multi Abutment Outer Driver

124 Locator® Torque Driver

125 Osstem Torque Driver

125 Path Probe for TS

125 Torque Connector

126 Machine Driver Connector

126 Driver Handle

126 Finishing Reamer Set

127 Reamer Bite

127 Reamer Tip for Rigid Abutment

127 Reamer Tip for Solid, Excellent Solid Abutment

128 **CAS KIT**

129 **CAS Full KIT**

130 CAS Drill

130 Guide Drill

130 Ø 2.2 Twist Drill

131 Hydraulic Membrane Lifter Set

131 Stopper

131 Bone Carrier

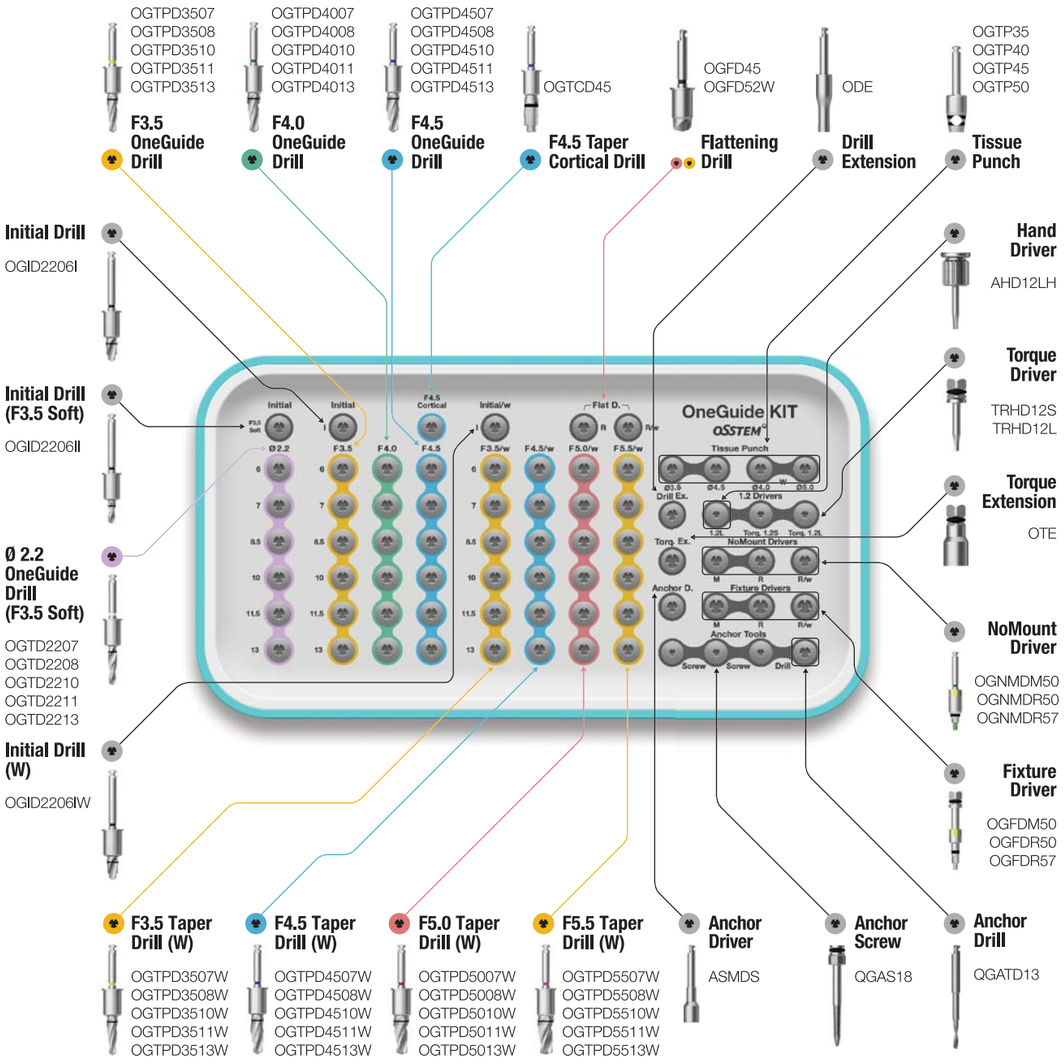
131 Bone Carrier Head

KIT Contents 3/3

OSSTEM
IMPLANT

OneGuide KIT (OOGK)

For TSIII / IV | SSIII | USIII



OneGuide KIT Surgical Instruments

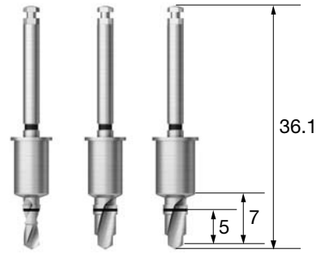
OneGuide

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

Initial Drill

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

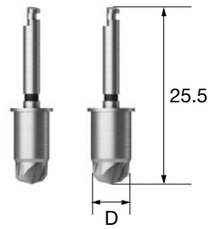
For F3.5 Soft	OGID2206II
For below F4.5	OGID2206I
For F5.0	OGID2206IW



Flattening Drill

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

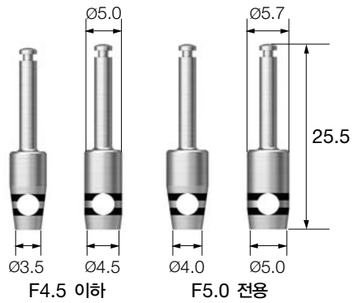
D	Ø4.5	Ø5.2
For Below F4.5	OGFD45	-
For F5.0	-	OGFD52W



Tissue Punch

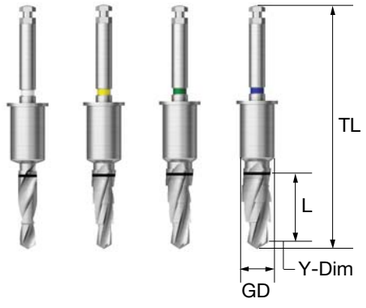
- It is used to remove gingiva
- Marking line at 1mm intervals according to gingival height
- 2 types of each (for below F4.5 / for F5.0)

For below 4.5	OGTP35	OGTP45
For F5.0	OGTP40	OGTP50



OneGuide Drill

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



F3.5 Soft Bone

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

For below F4.5

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

For F5.0

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

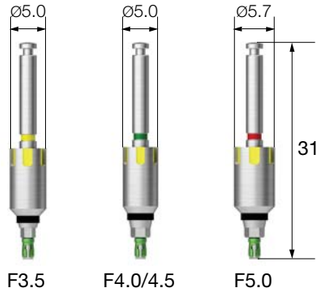
NoMount Driver

- Used when placing a nomount fixture

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

- C = Connection

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

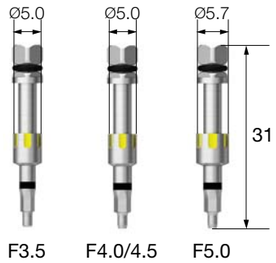


OneGuide KIT Surgical Instruments

Fixture Driver

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

C	Mini(Ø5.0)	Regular(Ø5.0)	Regular(Ø5.7)
F3.5	OGFDM50	-	-
F4.0 / 4.5	-	OGFDR50	-
F5.0	-	-	OGFDR57



Anchor Screw

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

QGAS18

Anchor Drill

- Used for drilling before using anchor screw

QGATD13

Anchor Driver

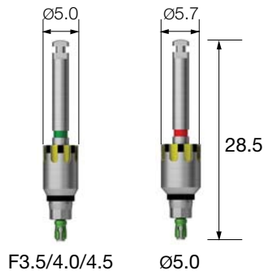
- Used by tightening to anchor screw

ASMDS

NoMount Driver for SS

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

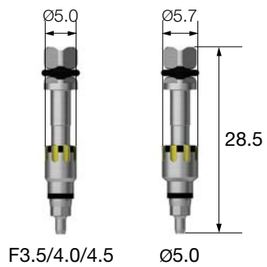
P	Regular(Ø5.0)	Regular(Ø5.7)
F3.5 / 4.0 / 4.5	OGNMDR50S	-
F5.0	-	OGNMDR57S



Fixture Driver for SS

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

P	Regular(Ø5.0)	Regular(Ø5.7)
F3.5 / 4.0 / 4.5	OGFDR50S	-
F5.0	-	OGFDR57S

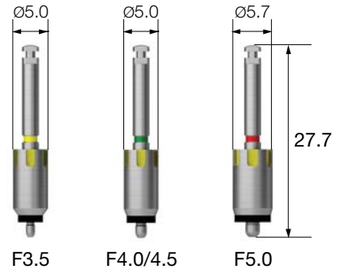


OneGuide KIT Surgical Instruments

NoMount Driver for US

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

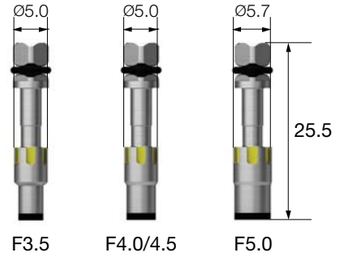
P	Mini(Ø5.0)	Regular(Ø5.0)	Wide(Ø5.7)
F3.5	OGNMDM50U	-	-
F4.0 / 4.5	-	OGNMDR50U	-
F5.0	-	-	OGNMDW57U



Fixture Driver for US

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

P	Mini(Ø5.0)	Regular(Ø5.0)	Wide(Ø5.7)
F3.5	OGFDM50U	-	-
F4.0 / 4.5	-	OGFDR50U	-
F5.0	-	-	OGFDW57U

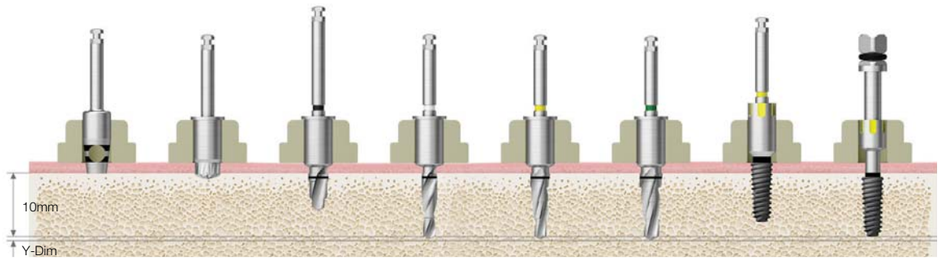


Drilling Sequence **OneGuide Drill**

TSIII | SSIII | USIII

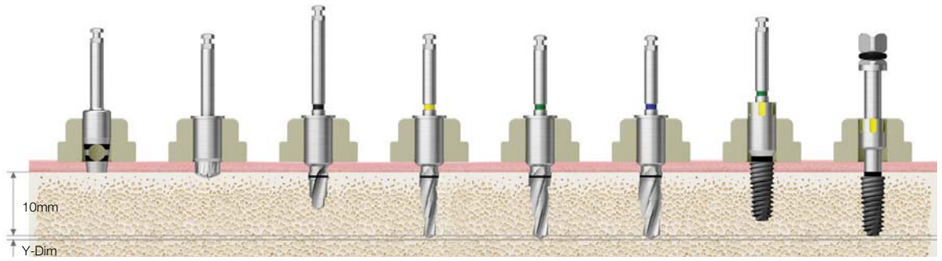
(Length : 10mm)

ø3.5



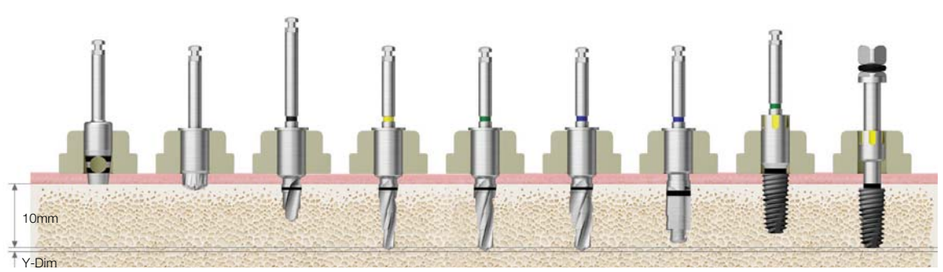
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	ø 2.2 Drill	F3.5 Drill	F4.0 Drill	**Nomount Driver**	**Fixture Driver**
Soft	▶	(▶)	(F3.5 Soft)▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶		▶			
Hard	▶	(▶)	▶		▶	▶		

ø4.0



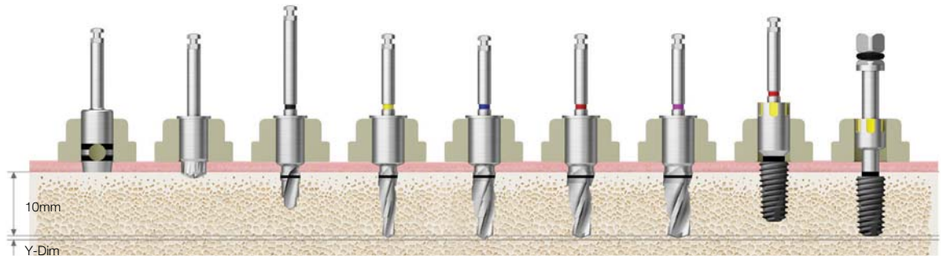
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	**Nomount Driver**	**Fixture Driver**
Soft	▶	(▶)	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶	▶			
Hard	▶	(▶)	▶	▶		▶		

ø4.5



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

ø5.0



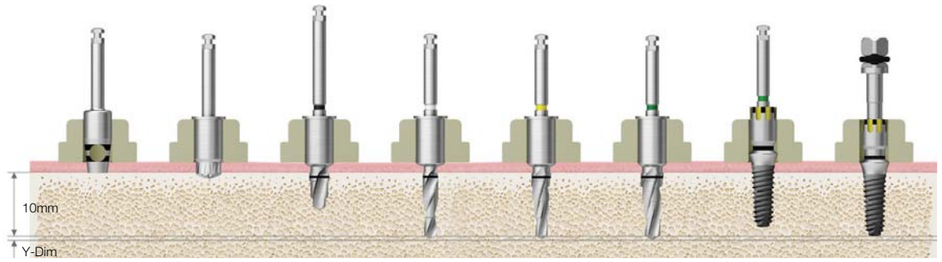
Bone Quality	Tissue Punch	Flattening Drill (W)	Initial Drill (W)	F3.5 Drill (W)	F4.5 Drill (W)	F5.0 Drill (W)	F5.5 Drill (W)		
Soft	▶	(▶)	▶	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶		▶			
Hard	▶	(▶)	▶	▶		▶	▶		

Drilling Sequence **OneGuide Drill**

TSIII | SSIII | USIII

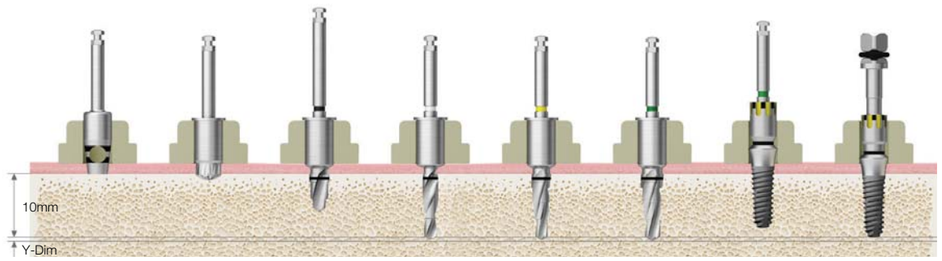
(Length : 10mm)

G/H1.8 Ø3.5



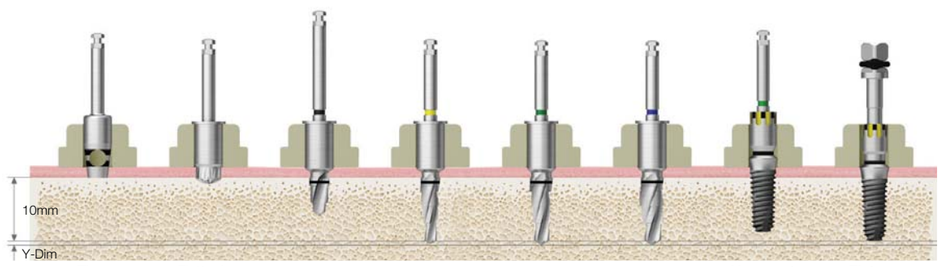
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	ø 2.2 Drill	F3.5 Drill	F4.0 Drill	Nomount Driver	Fixture Driver
Soft	▶	(▶)	(F3.5 Soft)▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶		▶			
Hard	▶	(▶)	▶		▶	▶		

G/H2.8 Ø3.5



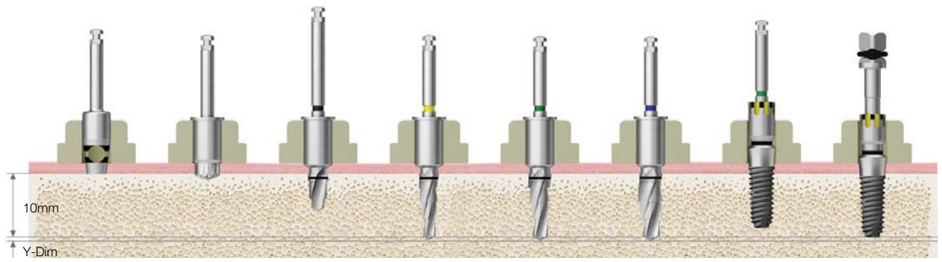
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	ø 2.2 Drill	F3.5 Drill	F4.0 Drill	Nomount Driver	Fixture Driver
Soft	▶	(▶)	(F3.5 Soft)▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶		▶			
Hard	▶	(▶)	▶		▶	▶		

G/H1.8 Ø4.0



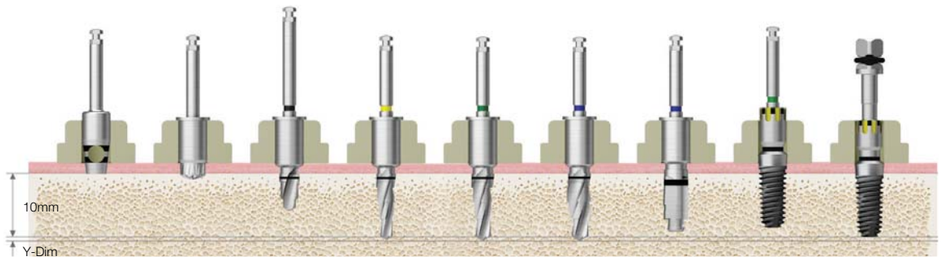
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	Nomount Driver	Fixture Driver
Soft	▶	(▶)	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶	▶			
Hard	▶	(▶)	▶	▶		▶		

G/H2.8 Ø4.0



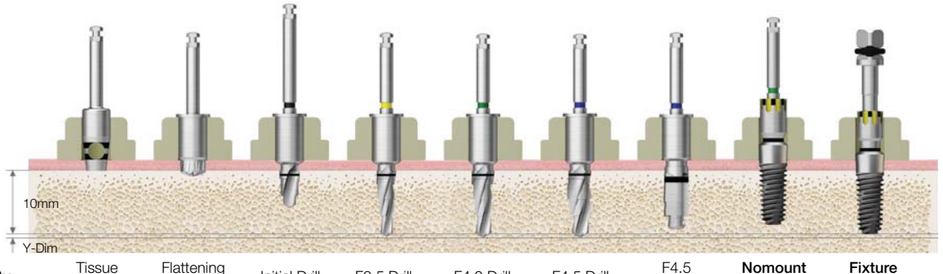
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	Nomount Driver	Fixture Driver
Soft	▶	(▶)	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶	▶			
Hard	▶	(▶)	▶	▶		▶		

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	▶	(▶)	▶	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶		▶			
Hard	▶	(▶)	▶	▶		▶	▶		

G/H2.8 Ø4.5



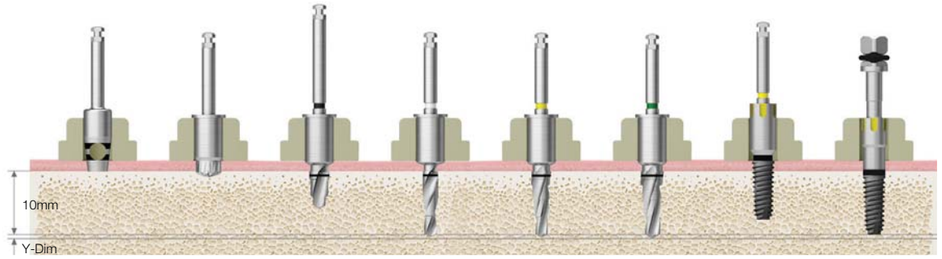
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	F4.5 Cortical	Nomount Driver	Fixture Driver
Soft	▶	(▶)	▶	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶		▶			
Hard	▶	(▶)	▶	▶		▶	▶		

Drilling Sequence **OneGuide Drill**

TSIII | SSIII | USIII

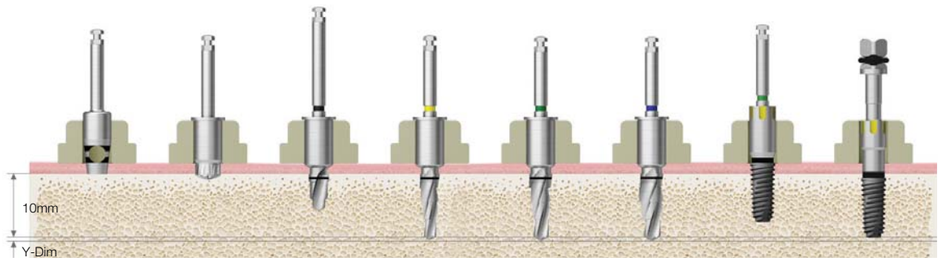
(Length : 10mm)

ø3.5



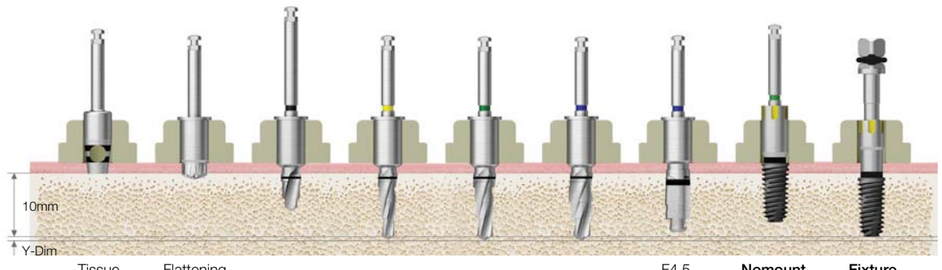
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	ø 2.2 Drill	F3.5 Drill	F4.0 Drill	**Nomount Driver**	**Fixture Driver**
Soft	▶	(▶)	(F3.5 Soft)▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶		▶			
Hard	▶	(▶)	▶		▶	▶		

ø4.0



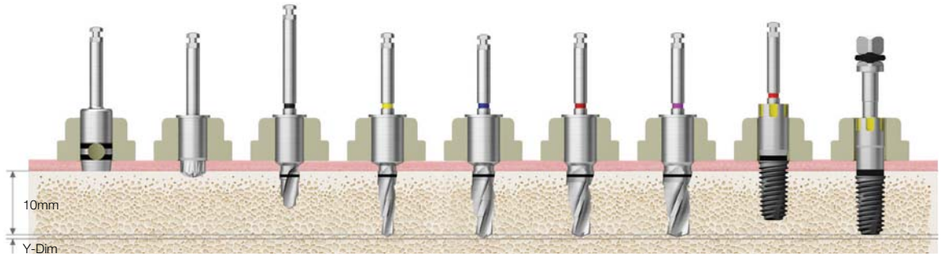
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	**Nomount Driver**	**Fixture Driver**
Soft	▶	(▶)	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶	▶			
Hard	▶	(▶)	▶	▶		▶		

ø4.5



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

ø5.0



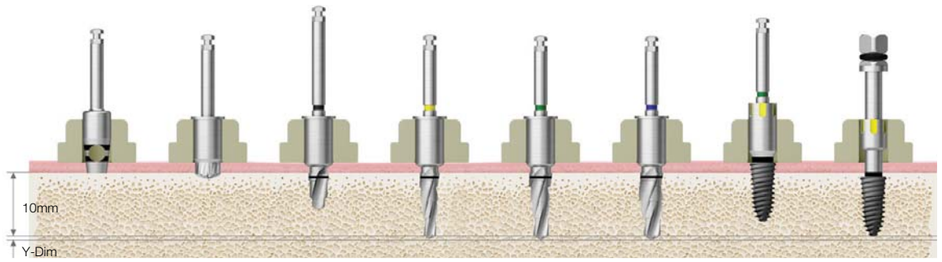
Bone Quality	Tissue Punch	Flattening Drill (W)	Initial Drill (W)	F3.5 Drill (W)	F4.5 Drill (W)	F5.0 Drill (W)	F5.5 Drill (W)		
Soft	▶	(▶)	▶	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶		▶			
Hard	▶	(▶)	▶	▶		▶	▶		

Drilling Sequence **OneGuide Drill**

TSIV

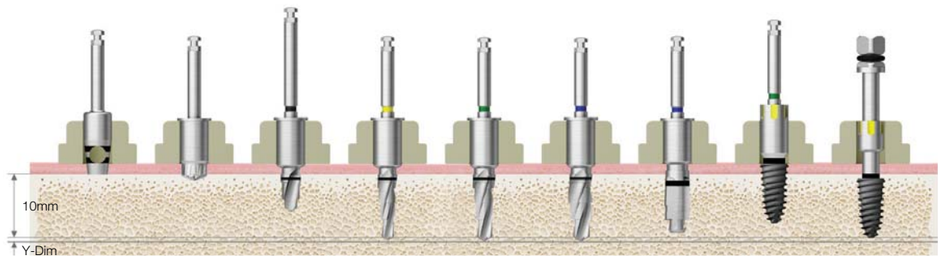
(Length : 10mm)

ø4.0



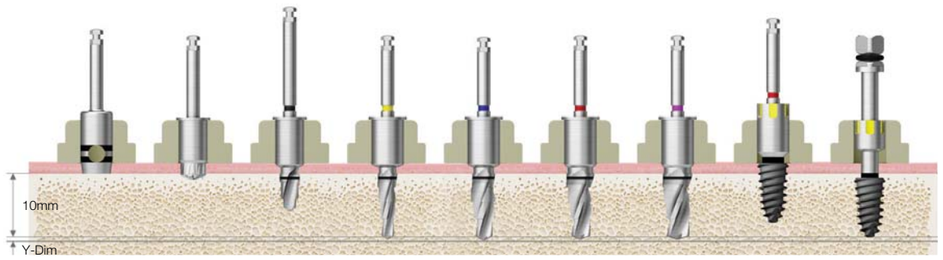
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.5 Drill	F4.0 Drill	F4.5 Drill	**Nomount Driver**	**Fixture Driver**
Soft	▶	(▶)	▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶	▶			
Hard								

ø4.5



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

ø5.0



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

OneCAS KIT (OOCK)

For TSII / III SSII / III USII / III

Top panel components

Depth Gauge
OCDG

Depth Gaug(W)
OCDGW

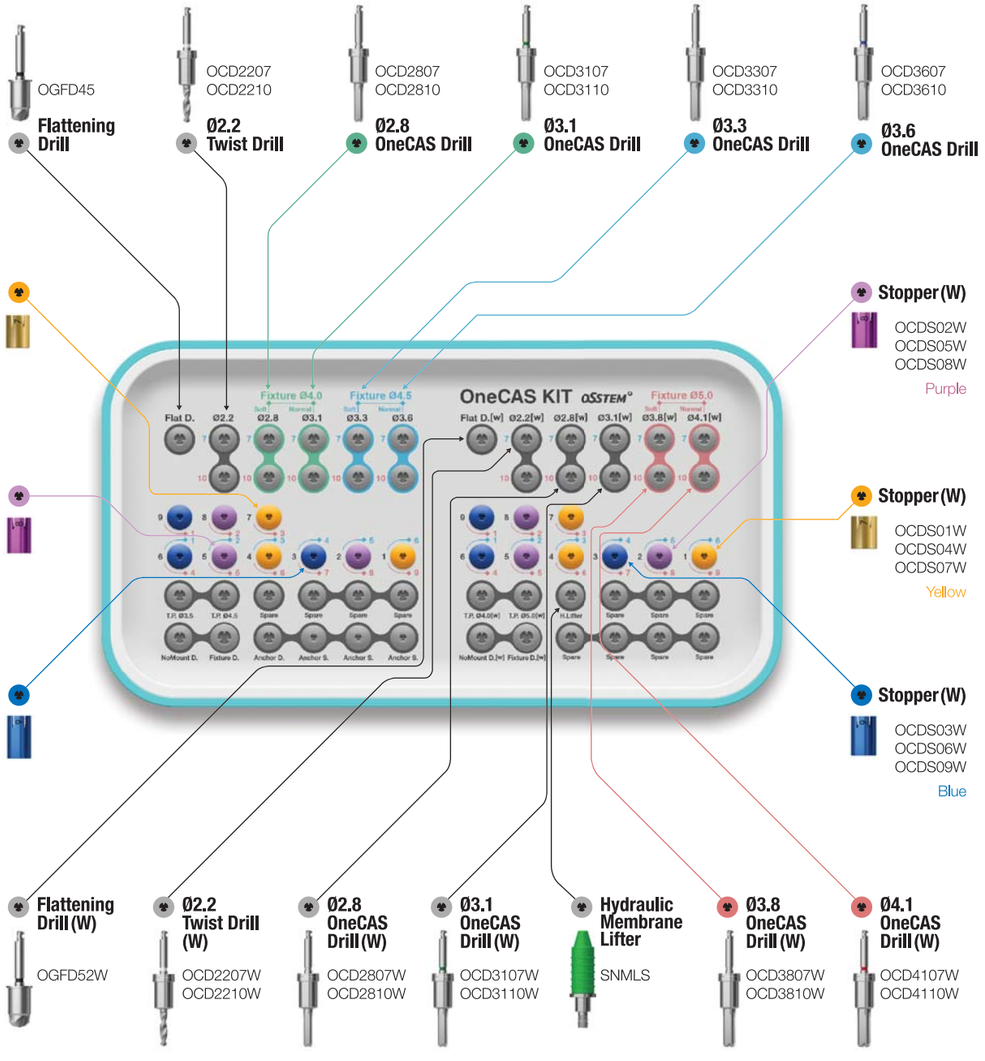
Hydraulic Membrane Lifter Tube
SNMT

Lower panel components

Bone Carrier Head
SNBCH30

Bone Carrier
SNBCS35

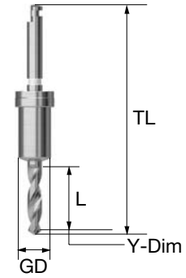
Bone Condenser
SNBC1114



OneCAS KIT Surgical Instruments

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

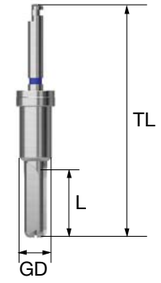
L	TL	Ø2.2
	Y-Dim	0.6
	GD	5.0
7	33.2	OCD2207
10	36.2	OCD2210

For F5.0 (W)

L	TL	Ø2.2
	Y-Dim	0.6
	GD	5.7
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 KIT Surgical Instruments

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

L	1	2	3	4	5	6	7	8	9
									
	OCDS01	OCDS02	OCDS03	OCDS04	OCDS05	OCDS06	OCDS07	OCDS08	OCDS09
Color	Yellow	Purple	Blue	Yellow	Purple	Blue	Yellow	Purple	Blue

For F4.0/4.5

L \ GD	5.0
10.6	OCDG

For F5.0 (W)

L \ GD	5.7
10.6	OCDGW

For F5.0 (W)

L	1	2	3	4	5	6	7	8	9
									
	OCDS01W	OCDS02W	OCDS03W	OCDS04W	OCDS05W	OCDS06W	OCDS07W	OCDS08W	OCDS09W
Color	Yellow	Purple	Blue	Yellow	Purple	Blue	Yellow	Purple	Blue

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

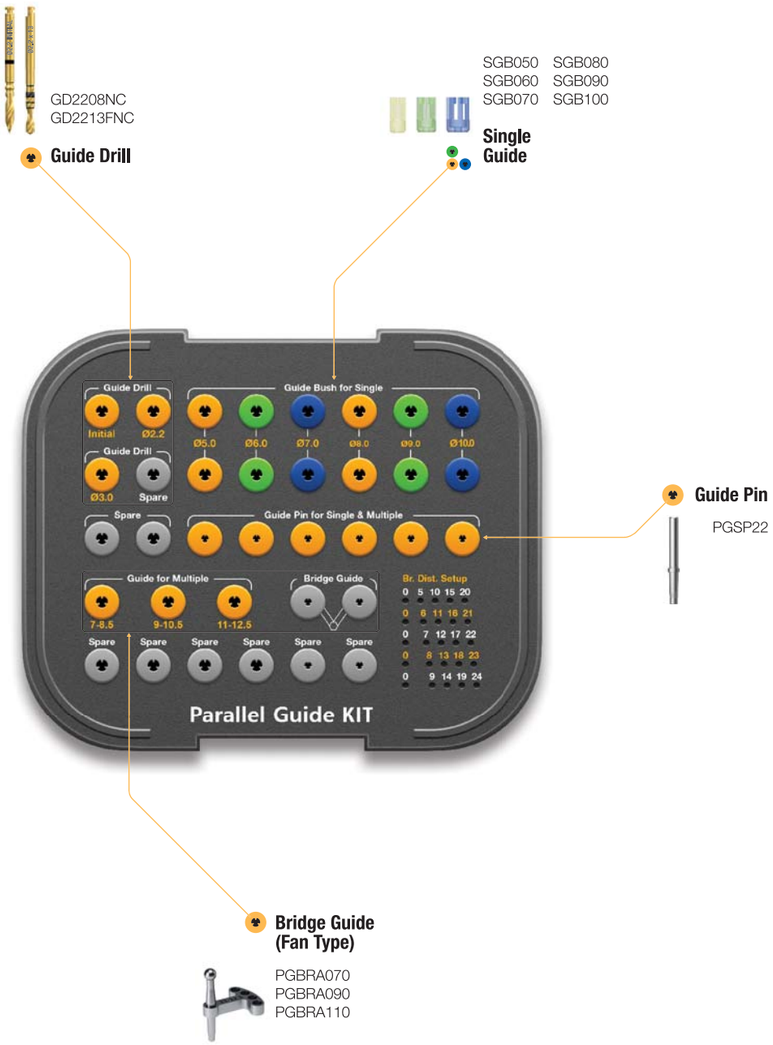
Parallel Guide KIT (OPGPK)

GD2208NC
GD2213FNC

Guide Drill

SGB050 SGB080
SGB060 SGB090
SGB070 SGB100

Single Guide



Guide Pin

PGSP22

Bridge Guide (Fan Type)

PGBRA070
PGBRA090
PGBRA110

Parallel Guide Full KIT (OPGAK)

Lower panel components

Multi Joint Handle Option
MJH

L-Wrench Option
LWC20H

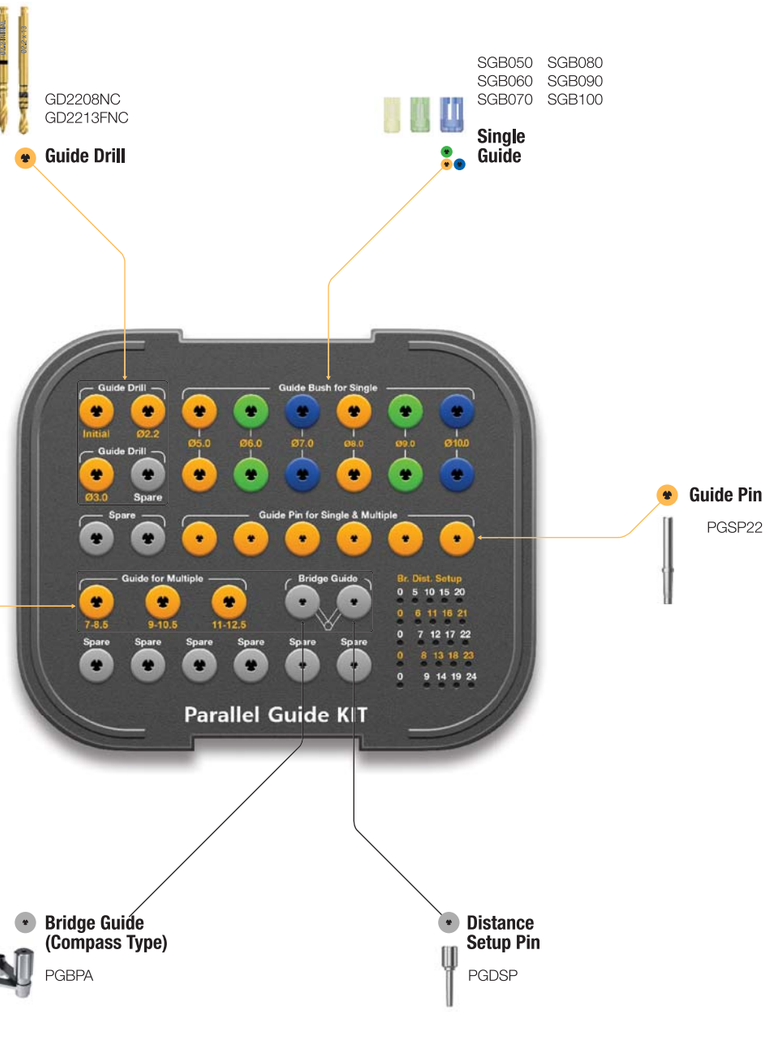
Denture Guide Option
PGODA

GD2208NC
GD2213FNC

Guide Drill

SGB050 SGB080
SGB060 SGB090
SGB070 SGB100

Single Guide



Guide Pin

PGSP22

Bridge Guide (Fan Type)

PGBRA070
PGBRA090
PGBRA110

Bridge Guide (Compass Type)

PGBPA

Distance Setup Pin

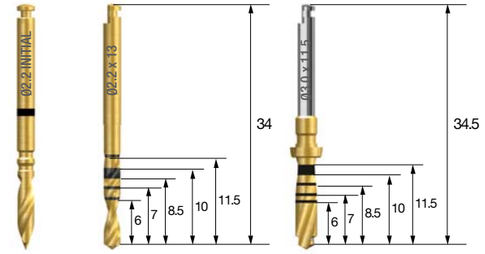
PGDSP

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



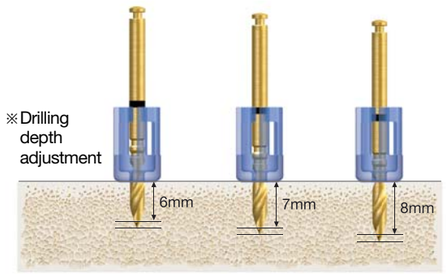
Initial drill | Ø2.2 twist drill | Ø3.0 twist drill

Single Guide

- 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
SGB050	SGB060	SGB070	SGB080	SGB090	SGB100

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

Fan type

Compass type Option

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 confirguration. 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

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

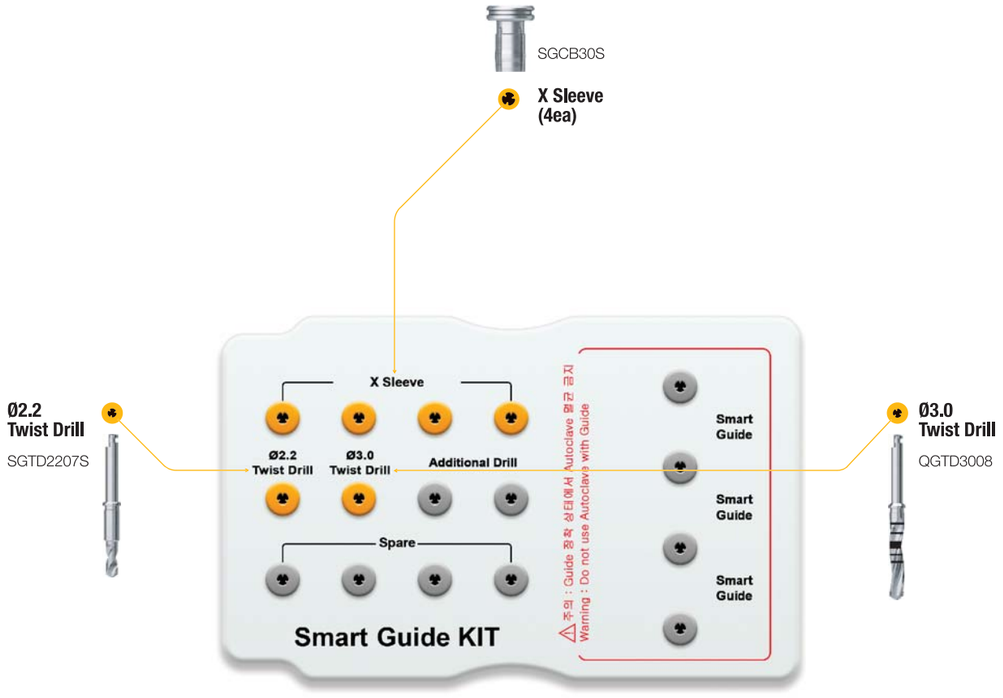
SmartGuide KIT (OSGK)

Lower panel components

Guide Pin (4ea)
SGP 22

Round bur (2ea)
RAHM1018

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



Ø2.2 Twist Drill
SGTD2207S

Ø3.0 Twist Drill
QGTD3008

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

Twist Drill

- Drills specifically for SmartGuide
- Stable drilling through the SmartGuide sleeve
- Initial drilling using the ø2.2, followed by ø3.0 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

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 marketing 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

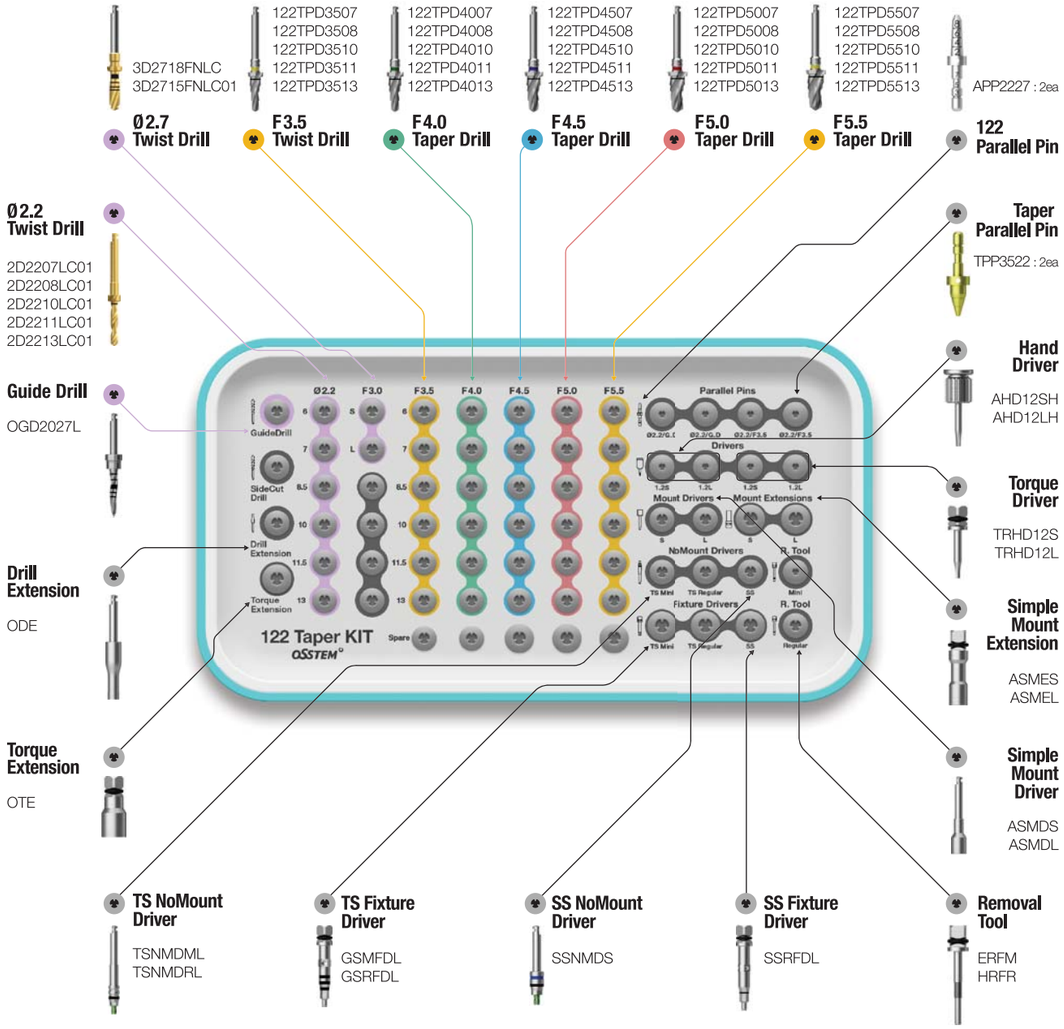
122 Taper KIT (0122TPK)

For TSIII / IV SSIII USIII / IV

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



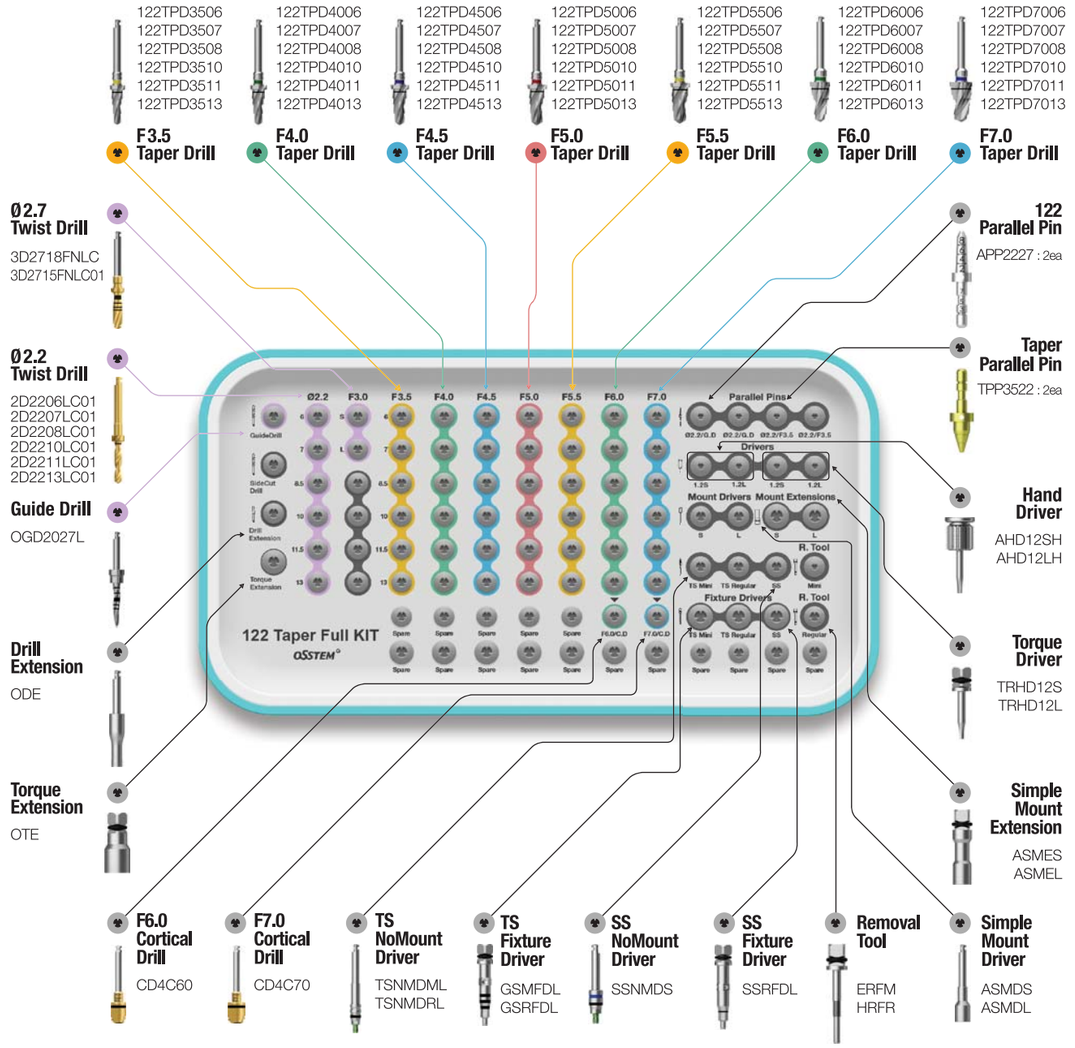
122 Taper Full KIT (0122TPFK)

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

Top panel components

Torque Wrench
TW30B

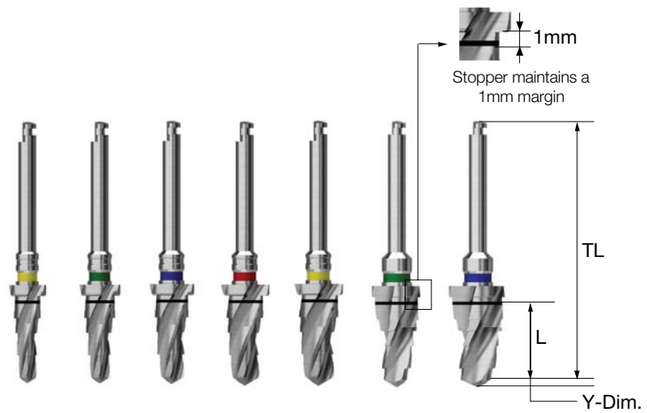
Depth Gauge
OSDG



122 Taper KIT Surgical Instruments

122 Taper Drill

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

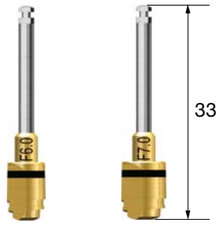


L	TL	F3.5	F4.0	F4.5	F5.0	F5.5	F6.0	F7.0
	Y-Dim.	0.7	0.9	1.0	1.0	1.0	1.0	1.0
4.0	29.5	122TPD**3504**	122TPD**4004**	122TPD**4504**	122TPD**5004**	122TPD**5504**	-	-
5.0	29.5	122TPD**3505**	122TPD**4005**	122TPD**4505**	122TPD**5005**	122TPD**5505**	-	-
6.0	30.5	122TPD**3506**	122TPD**4006**	122TPD**4506**	122TPD**5006**	122TPD**5506**	122TPD**6006**	122TPD**7006**
7.0	31.5	122TPD**3507**	122TPD**4007**	122TPD**4507**	122TPD**5007**	122TPD**5507**	122TPD**6007**	122TPD**7007**
8.5	33	122TPD**3508**	122TPD**4008**	122TPD**4508**	122TPD**5008**	122TPD**5508**	122TPD**6008**	122TPD**7008**
10	34.5	122TPD**3510**	122TPD**4010**	122TPD**4510**	122TPD**5010**	122TPD**5510**	122TPD**6010**	122TPD**7010**
11.5	34.5	122TPD**3511**	122TPD**4011**	122TPD**4511**	122TPD**5011**	122TPD**5511**	122TPD**6011**	122TPD**7011**
13	36	122TPD**3513**	122TPD**4013**	122TPD**4513**	122TPD**5013**	122TPD**5513**	122TPD**6013**	122TPD**7013**
15	38	122TPD**3515**	122TPD**4015**	122TPD**4515**	122TPD**5015**	122TPD**5515**	-	-
Color		Yellow	Green	Blue	Red	Yellow	Green	Blue

Cortical Drill for Ultra-Wide

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

F6.0	F7.0
CD4C60	CD4C70

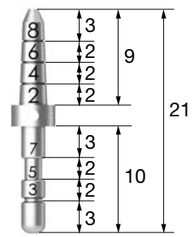


Parallel Pin for 122 Taper Drill

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

APP2227

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



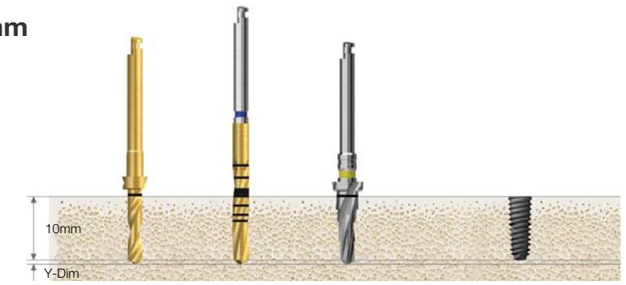
Drilling Sequence **122 Taper Drill**

TSIII | SSIII | USIII

(Length : 10mm)

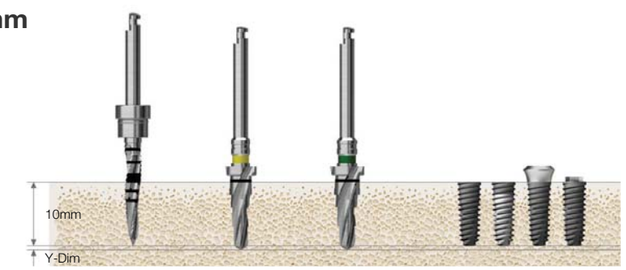
F5.5 taper cortical drill marking line Bottom line 6mm or less, middle line 7mm, top line 8.5mm or more fixture placement standard
Recommended placement torque Below than 40Ncm, TSIII/SSIII HA : below than 35Ncm (In hard bone, HA coating layer cracking and peeling can occur)
TS fixture placement depth The normal bone is placed 1mm deeper than the bone level, and the soft bone is placed at the bone level to maintain the fixed strength

ø3.0mm



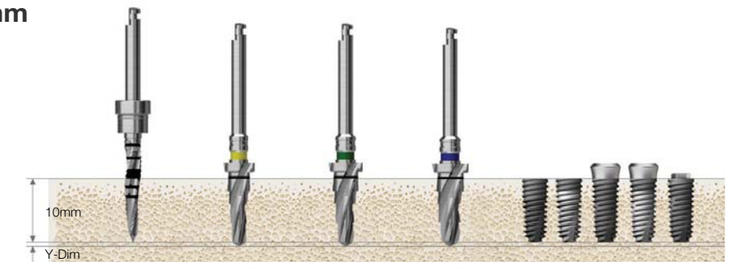
Bone Quality	ø 2.2 Drill	ø 2.7 Drill	F3.5 Taper Drill	ø 3.0 Fixture
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶		▶	

ø3.5mm



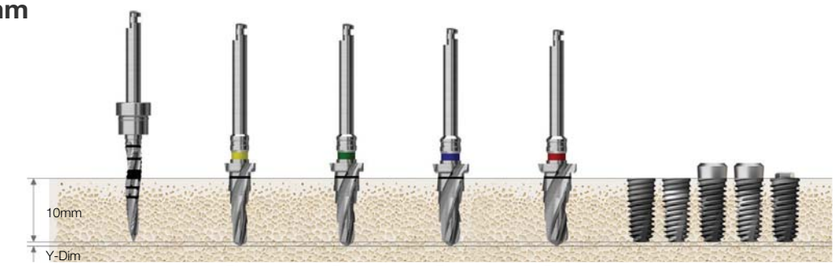
Bone Quality	Guide Drill	F3.5 Taper Drill	F4.0 Taper Drill	ø 3.5 Fixture
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

ø4.0mm



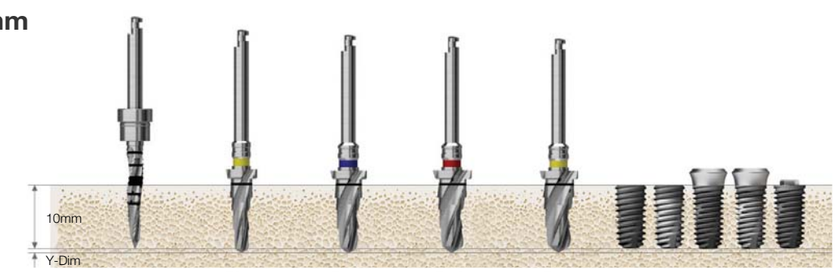
Bone Quality	Guide Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	ø 4.0 Fixture
Soft	▶	▶			Implant Placement
Normal	▶	▶	▶		
Hard	▶	▶		▶	

ø4.5mm



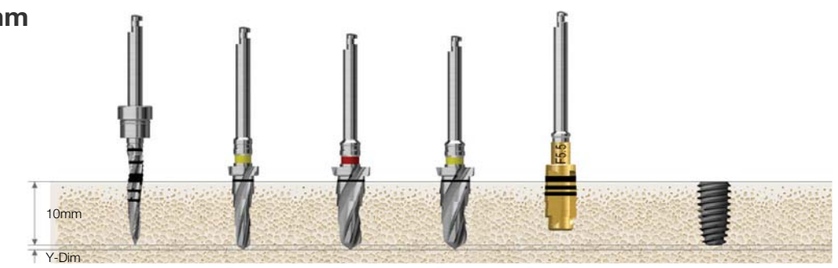
Bone Quality	Guide Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	F5.0 Taper Drill	ø 4.5 Fixture
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶			▶	

ø5.0mm



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

ø5.5mm



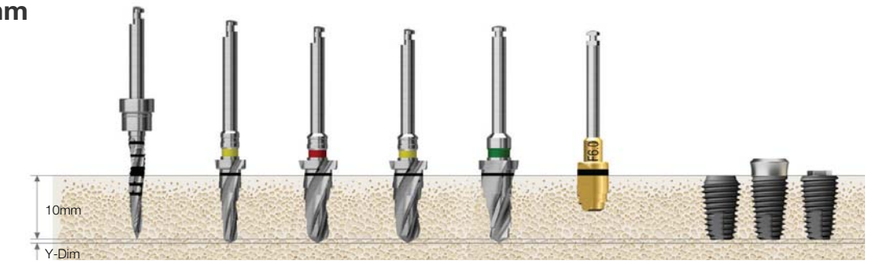
Bone Quality	Guide Drill	F3.5 Taper Drill	F5.0 Taper Drill	F5.5 Taper Drill	F5.5 Taper Cortical Drill	ø 5.5 Fixture
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶		▶	▶	

Drilling Sequence **122 Taper Drill**

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

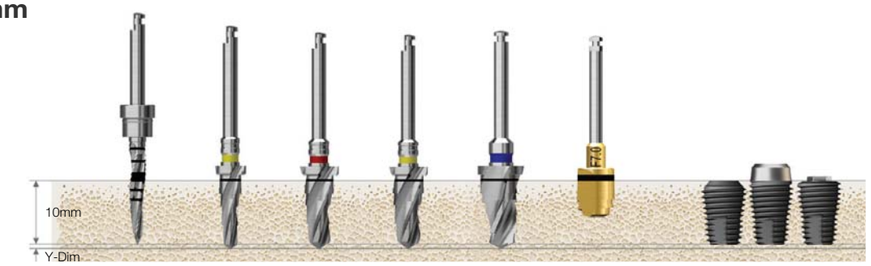
(Length : 10mm)

ø6.0mm



Bone Quality	Guide DrillDrill	F3.5 Taper Drill	F5.0 Taper Drill	F5.5 Taper Drill	F6.0 Taper Drill	F6.0 Cortical Drill	ø 6.0 Fixture
Soft	▶		▶	▶			Implant Placement
Normal	▶	▶	▶		▶		
Hard	▶	▶	▶		▶	▶	

ø7.0mm



Bone Quality	Guide DrillDrill	F3.5 Taper Drill	F5.0 Taper Drill	F6.0 Taper Drill	F7.0 Taper Drill	F7.0 Cortical Drill	ø 7.0 Fixture
Soft	▶		▶	▶			Implant Placement
Normal	▶	▶	▶		▶		
Hard	▶	▶	▶		▶	▶	

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)

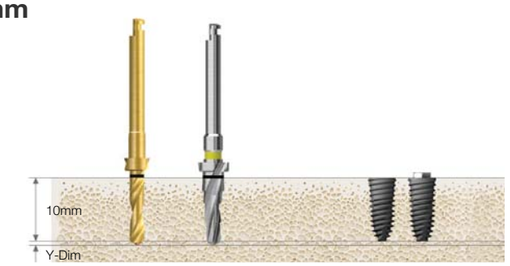
TS fixture placement depth The normal bone is placed 1mm deeper than the bone level, and the soft bone is placed at the bone level to maintain the fixed strength

Drilling Sequence **122 Taper Drill**

TSIV | USIV

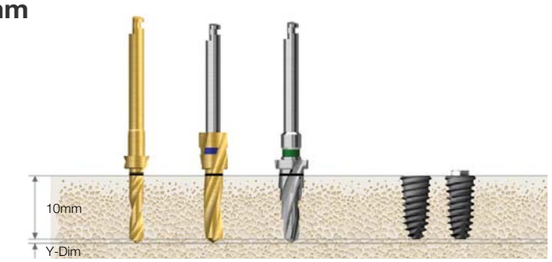
(Length : 10mm)

ø4.0mm



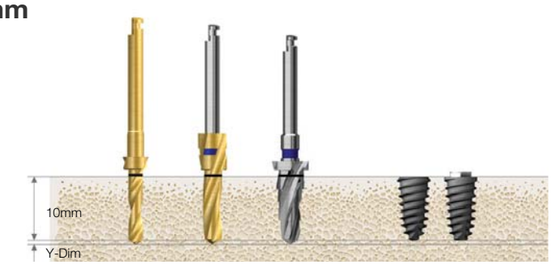
Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	ø 4.0 Fixture
D4	▶		Implant Placement
Soft	▶	▶	

ø4.5mm



Bone Quality	ø 2.2 Drill	ø 3.0 Drill	F4.0 Taper Drill	ø 4.5 Fixture
D4		▶		Implant Placement
Soft	▶		▶	

ø5.0mm



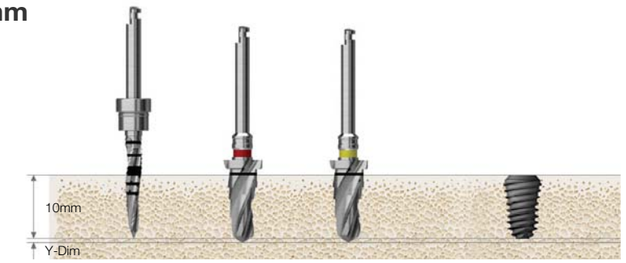
Bone Quality	ø 2.2 Drill	ø 3.0 Drill	F4.5 Taper Drill	ø 5.0 Fixture
D4		▶		Implant Placement
Soft	▶		▶	

Drilling Sequence **122 Taper Drill**

TSIV Ultra-wide

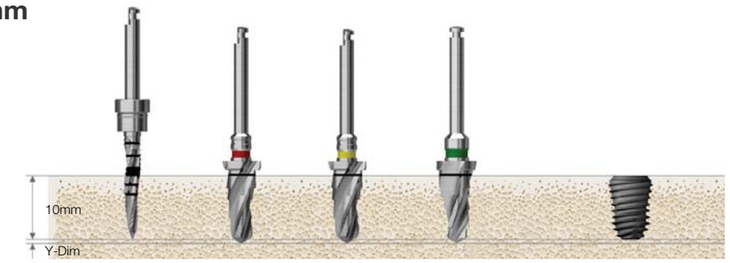
(Length : 10mm)

ø6.0mm



Bone Quality	Guide Drill	F5.0 Taper Drill	F5.5 Taper Drill	ø 6.0 Fixture
D4	▶	▶		Implant Placement
Soft	▶	▶	▶	

ø7.0mm



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

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

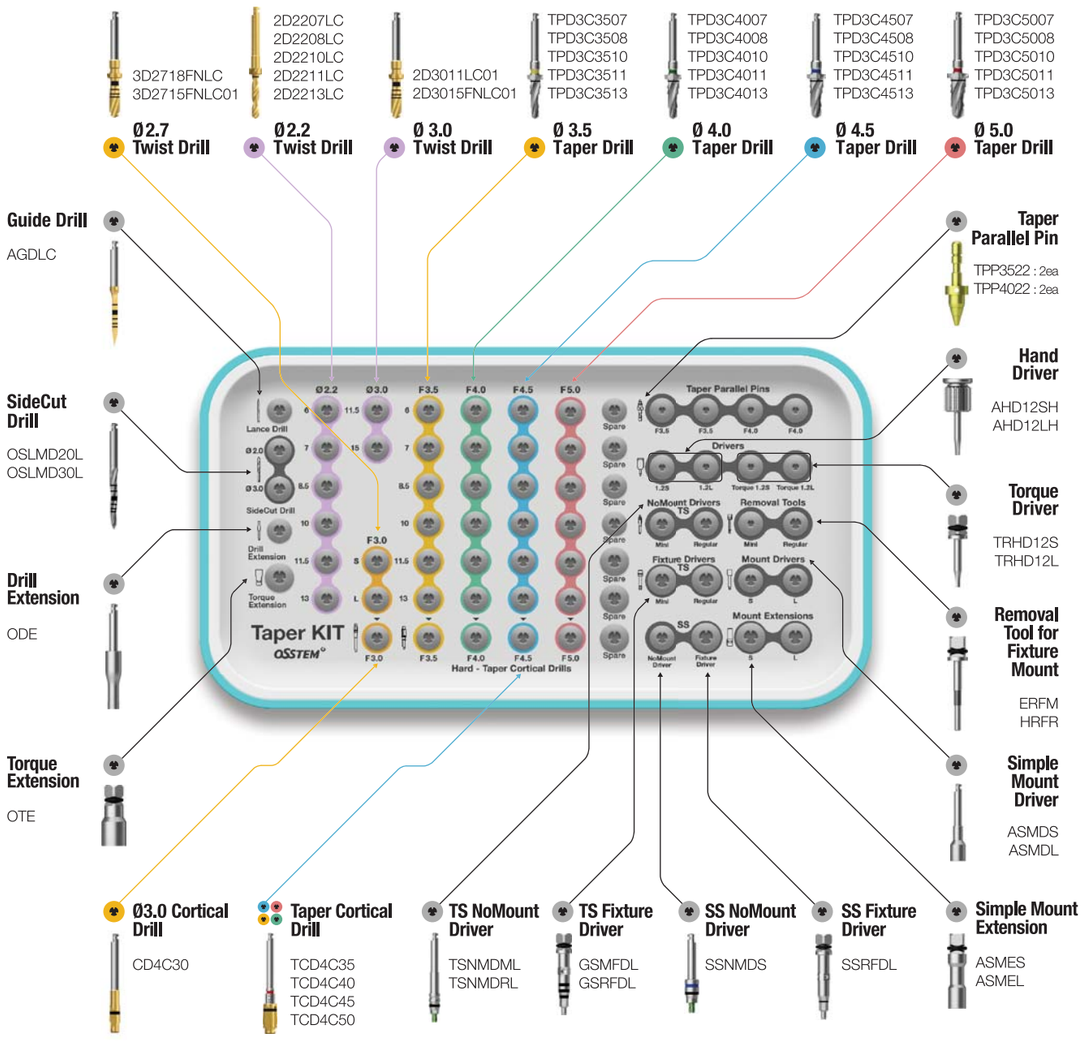
Taper KIT (OTSK)

For TSIII / IV SSIII USIII

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



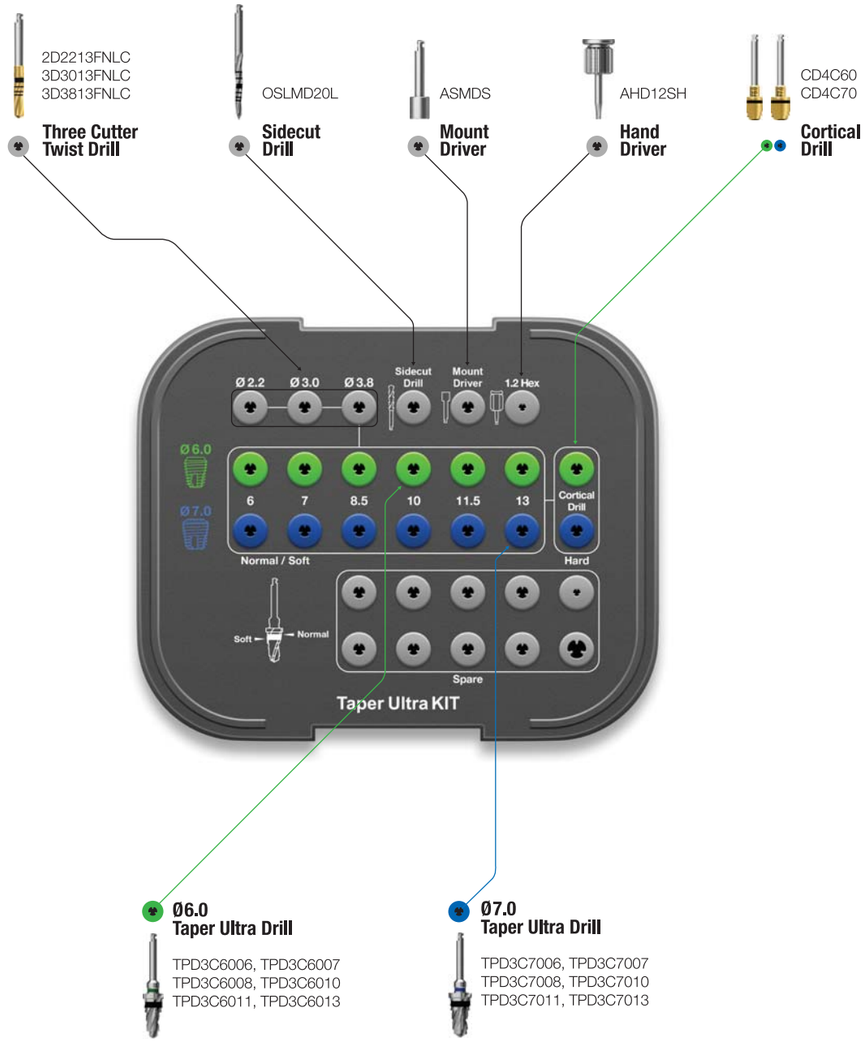
Taper Ultra KIT (HULTPK)

For III Ultra-wide

Lower panel components

Open Wrench
SPOW

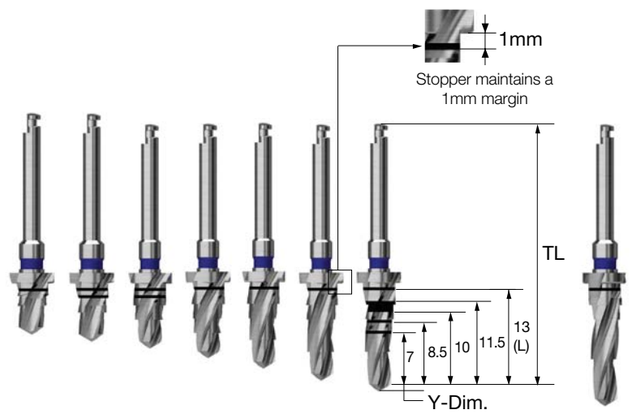
Ratchet Wrench
RCWC



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	TPD3C**3505**	TPD3C**4005**	TPD3C**4505**	TPD3C**5005**	-
6.0	30.5	TPD3C**3506**	TPD3C**4006**	TPD3C**4506**	TPD3C**5006**	TPD3C**5506**
7.0	31.5	TPD3C**3507**	TPD3C**4007**	TPD3C**4507**	TPD3C**5007**	TPD3C**5507**
8.5	33	TPD3C**3508**	TPD3C**4008**	TPD3C**4508**	TPD3C**5008**	TPD3C**5508**
10	34.5	TPD3C**3510**	TPD3C**4010**	TPD3C**4510**	TPD3C**5010**	TPD3C**5510**
11.5	34.5	TPD3C**3511**	TPD3C**4011**	TPD3C**4511**	TPD3C**5011**	TPD3C**5511**
13	36	TPD3C**3513**	TPD3C**4013**	TPD3C**4513**	TPD3C**5013**	TPD3C**5513**
15	38	TPD3C**3515**	TPD3C**4015**	TPD3C**4515**	TPD3C**5015**	TPD3C**5515**
Color		Yellow	Green	Blue	Red	Yellow

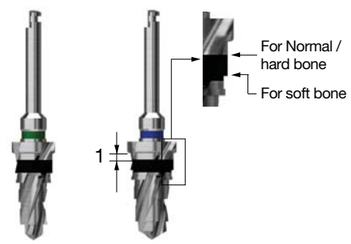
Taper Cortical Drill for Taper Fixture (TSIII, SSIII, USIII)

- 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	TPD3C**6006**	TPD3C**7006**
7	TPD3C**6007**	TPD3C**7007**
8.5	TPD3C**6008**	TPD3C**7008**
10	TPD3C**6010**	TPD3C**7010**
11.5	TPD3C**6011**	TPD3C**7011**
13	TPD3C**6013**	TPD3C**7013**
Color	Green	Blue

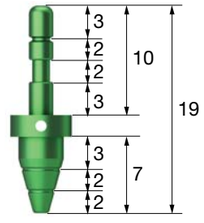
Cortical Drill for Ultra-Wide

- 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

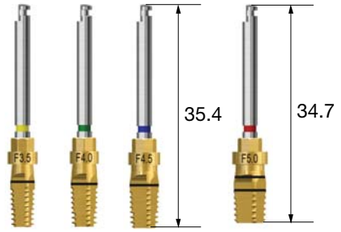
- Parallel pin for taper drill
- Used for checking position and direction of bone preparation
- The lower part is for fixture diameter drill and the upper part is for initial drill
- Color coding by fixture diameter (F3.5 : yellow, F4.0 : green, F4.5 : blue, F5.0 : silver)
- 122 taper & taper KIT common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

Drilling Sequence **Taper Drill**

TSIII | SSIII | USIII

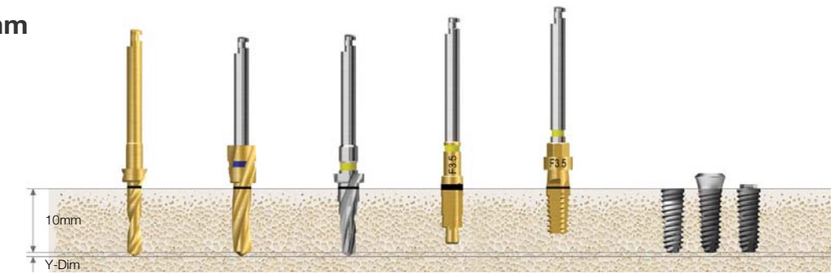
(Length : 10mm)

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

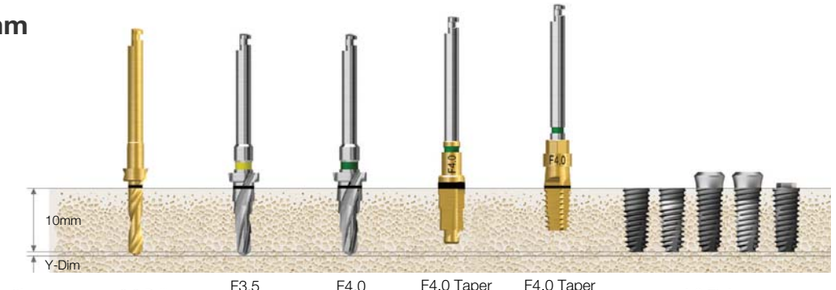
Bone Quality	ø 2.2 Drill	ø 2.7 Drill	F3.0 Cortical Drill	ø 3.0 Fixture
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

ø3.5mm



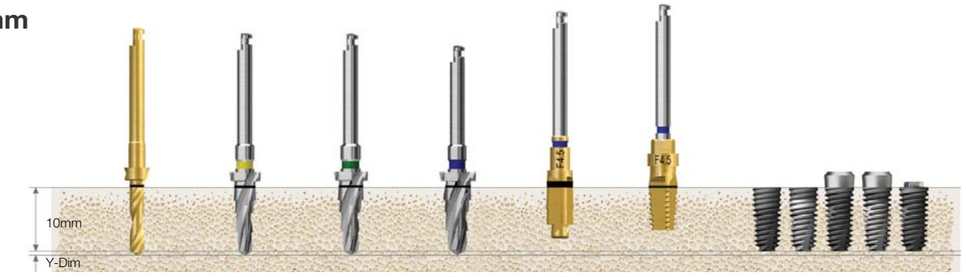
Bone Quality	ø 2.2 Drill	ø 3.0 Drill	F3.5 Taper Drill	F3.5 Taper Cortical Drill	F3.5 Taper Fixture Tap	ø 3.5 Fixture
Soft	▶	▶				Implant Placement
Normal	▶		▶			
Hard	▶		▶	▶		
Hard (Option)	▶		▶		▶	

ø4.0mm



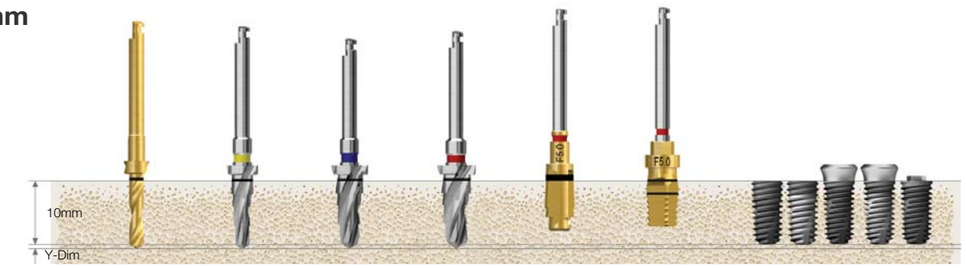
Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.0 Taper Cortical Drill	F4.0 Taper Fixture Tap	ø 4.0 Fixture
Soft	▶	▶				Implant Placement
Normal	▶	▶	▶			
Hard	▶	▶	▶	▶		
Hard (Option)	▶	▶	▶		▶	

ø4.5mm



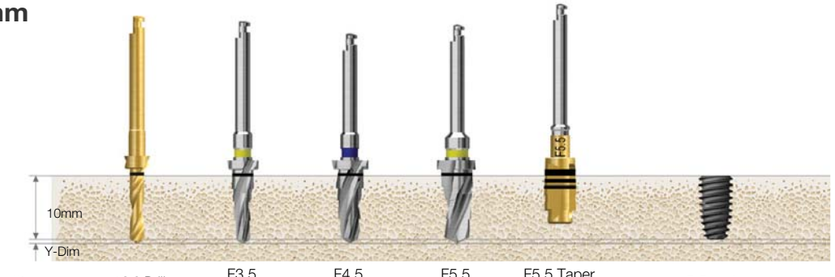
Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	F4.5 Taper Cortical Drill	F4.5 Taper Fixture Tap	ø 4.5 Fixture
Soft	▶	▶	▶				Implant Placement
Normal	▶	▶		▶			
Hard	▶	▶		▶	▶		
Hard (Option)	▶	▶		▶		▶	

ø5.0mm



Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	F4.5 Taper Drill	F5.0 Taper Drill	F5.0 Taper Cortical Drill	F5.0 Taper Fixture Tap	ø 5.0 Fixture
Soft	▶	▶	▶				Implant Placement
Normal	▶	▶	▶	▶			
Hard	▶	▶	▶	▶	▶		
Hard (Option)	▶	▶	▶	▶		▶	

ø5.5mm



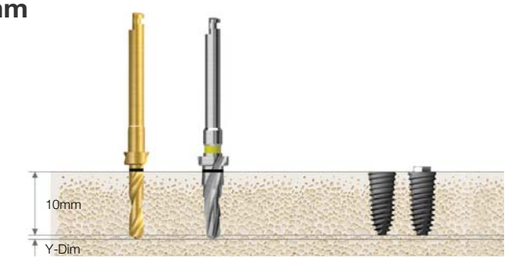
Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	F4.5 Taper Drill	F5.5 Taper Drill	F5.5 Taper Fixture Tap	ø 5.5 Fixture
Soft	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶	▶	▶	

Drilling Sequence **Taper Drill**

TSIV | USIV

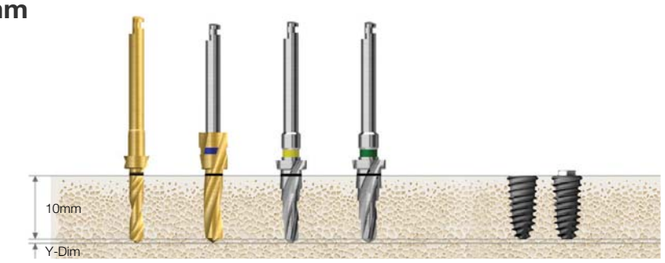
(Length : 10mm)

ø4.0mm



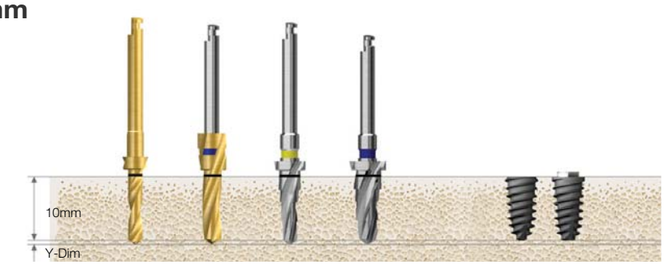
Bone Quality	ø 2.2 Drill	F3.5 Taper Drill	ø 4.0 Fixture
D4	▶		Implant Placement
Soft	▶	▶	

ø4.5mm



Bone Quality	ø 2.2 Drill	ø 3.0 Drill	F3.5 Taper Drill	F4.0 Taper Drill	ø 4.5 Fixture
D4		▶			Implant Placement
Soft	▶		▶	▶	

ø5.0mm



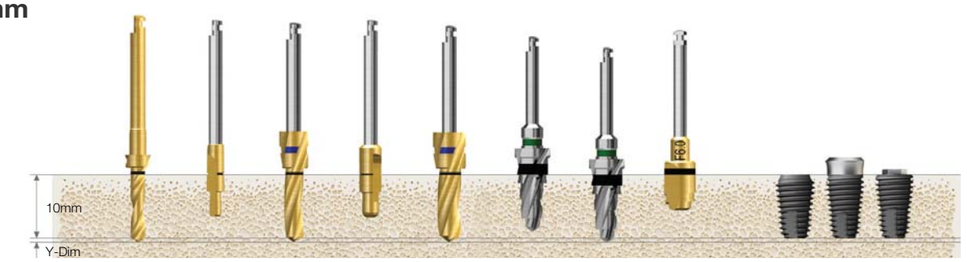
Bone Quality	ø 2.2 Drill	ø 3.0 Drill	F3.5 Taper Drill	F4.5 Taper Drill	ø 5.0 Fixture
D4		▶			Implant Placement
Soft	▶		▶	▶	

Drilling Sequence **Taper Drill**

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

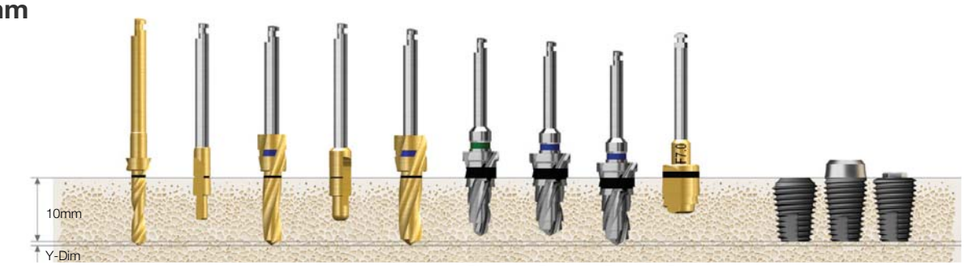
(Length : 10mm)

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	F6.0 Taper Drill	F6.0 Taper Drill	F6.0 Cortical Drill	ø 6.0 Fixture
Soft	▶	▶	▶	▶		▶			Implant Placement
Normal	▶	▶	▶	▶	▶		▶		
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	F6.0 Taper Drill	F7.0 Taper Drill	F7.0 Taper Drill	F7.0 Cortical Drill	ø 7.0 Fixture
Soft	▶	▶	▶	▶		▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶		▶		
Hard	▶	▶	▶	▶	▶	▶		▶	▶	

Recommended placement torque Below than 40Ncm

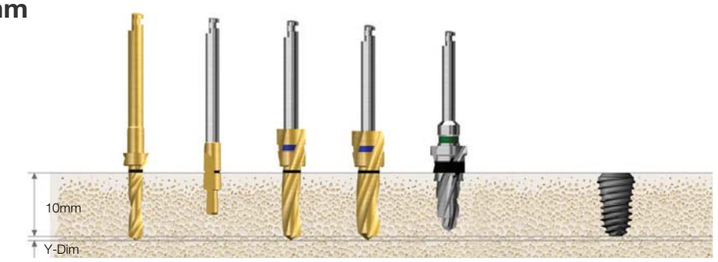
TS fixture placement depth The normal/hard bone is placed 1mm deeper than bone level, and the soft bone is placed at the bone level to maintain the fixed strength

Drilling Sequence **Taper Drill**

TSIV Ultra-wide

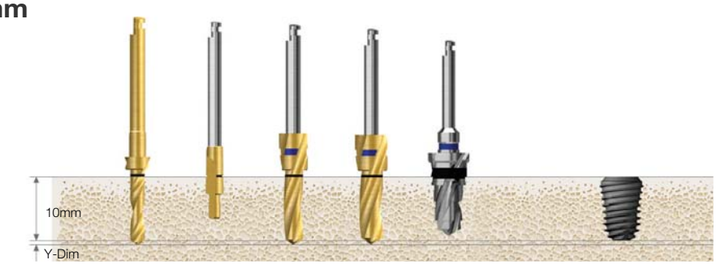
(Length : 10mm)

ø6.0mm



Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.8 Drill	F6.0 Taper Drill	ø **6.0 Fixture**
D4	▶			▶		Implant Placement
Soft	▶	▶	▶		▶	

ø7.0mm



Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.8 Drill	F7.0 Taper Drill	ø **7.0 Fixture**
D4	▶			▶		Implant Placement
Soft	▶	▶	▶		▶	

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

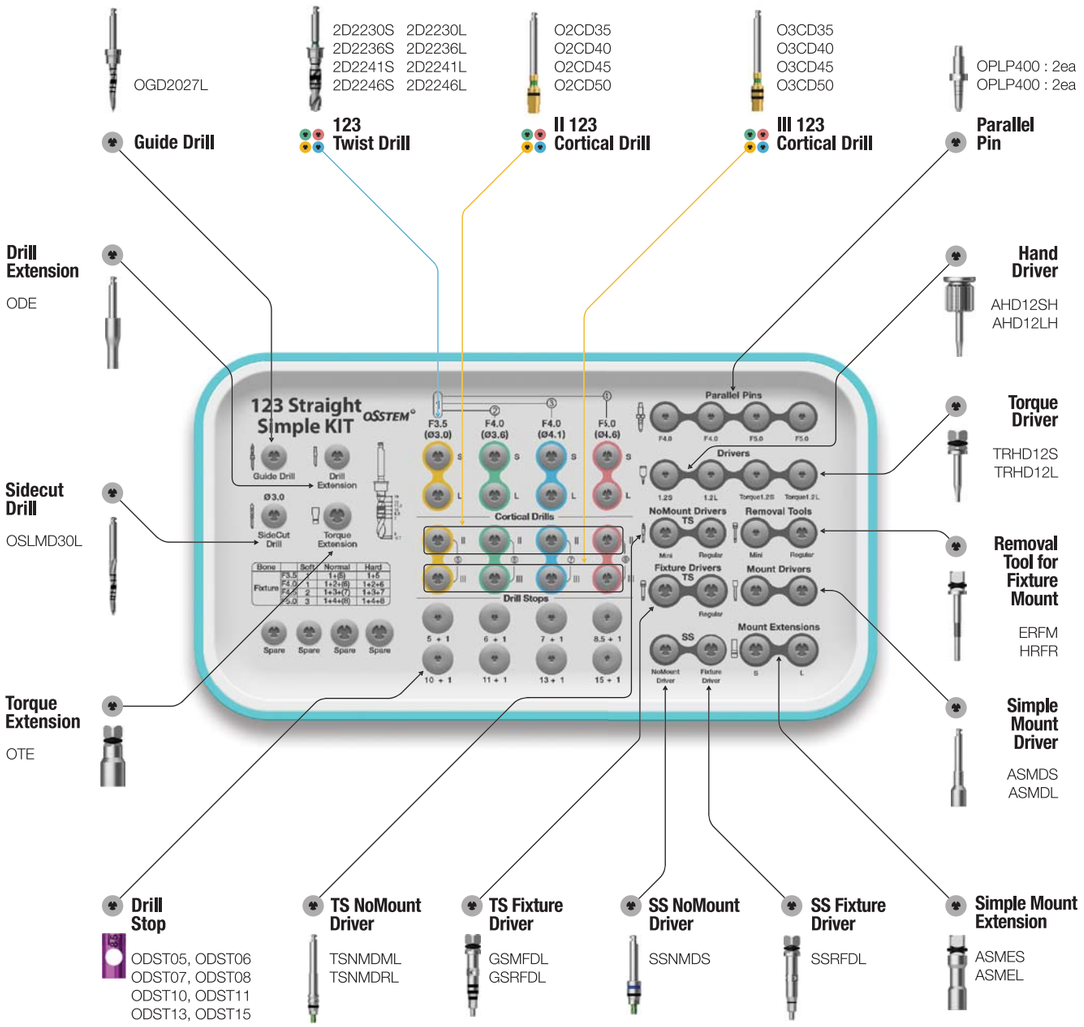
123 Straight Simple KIT (O123K)

For TSII / III SSII / III USII / III

Top panel components

Torque Wrench
TW30B

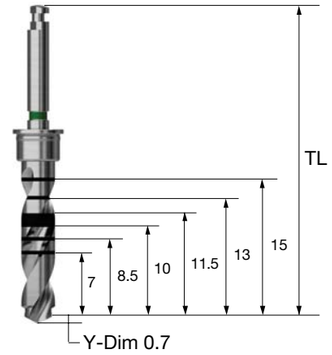
Depth Gauge
OSDG

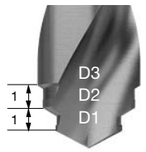


123 Straight Simple KIT Surgical Instruments

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





123 drill diameter

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)
34	2D2230S	2D3036S	2D3041S	2D3046S
40.4	2D2230L	2D3036L	2D3041L	2D3046L
Color	Yellow	Green	Blue	Red

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

L	6.2	7	8	9.5	11	12.5	14	16
	ODST05	ODST06	ODST07	ODST08	ODST10	ODST11	ODST13	ODST15

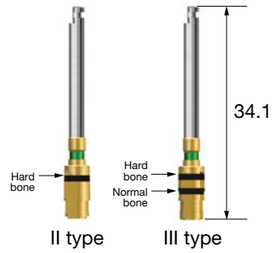
123 Straight Simple KIT Surgical Instruments

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	O2CD**35**	O2CD**40**	O2CD**45**	O2CD**50**
III	O3CD**35**	O3CD**40**	O3CD**45**	O3CD**50**
Color	Yellow	Green	Blue	Red

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



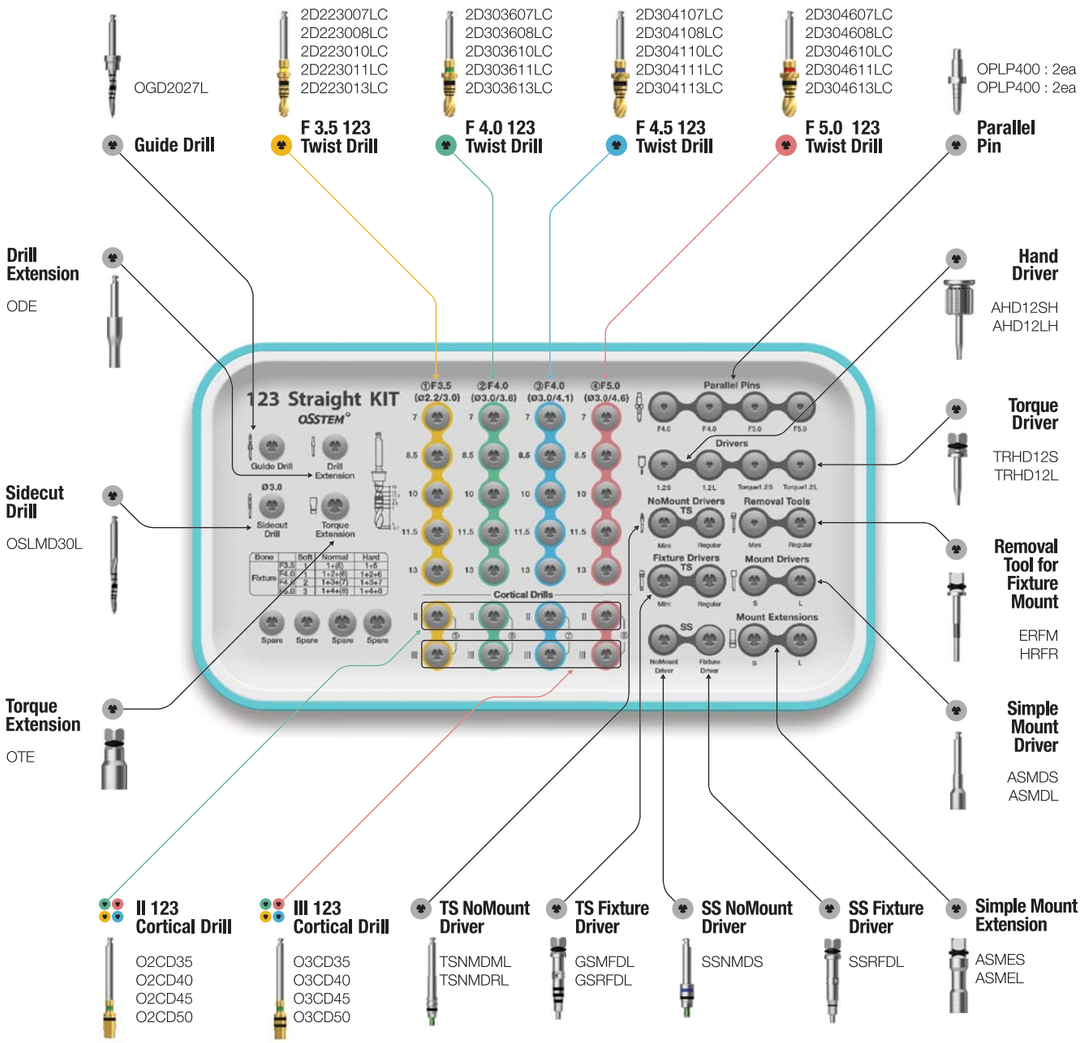
123 Straight KIT (O123FK)

For TSII / III | SSII / III | USII / III

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



OGD2027L
Guide Drill

2D223007LC
2D223008LC
2D223010LC
2D223011LC
2D223013LC
F 3.5 123 Twist Drill

2D303607LC
2D303608LC
2D303610LC
2D303611LC
2D303613LC
F 4.0 123 Twist Drill

2D304107LC
2D304108LC
2D304110LC
2D304111LC
2D304113LC
F 4.5 123 Twist Drill

2D304607LC
2D304608LC
2D304610LC
2D304611LC
2D304613LC
F 5.0 123 Twist Drill

OPLP400 : 2ea
OPLP400 : 2ea
Parallel Pin

Drill Extension
ODE

Hand Driver
AHD12SH
AHD12LH

Torque Driver
TRHD12S
TRHD12L

Sidecut Drill
OSLMD30L

Removal Tool for Fixture Mount
ERFM
HRFR

Torque Extension
OTE

Simple Mount Driver
ASMDS
ASMDL

II 123 Cortical Drill
O2CD35
O2CD40
O2CD45
O2CD50

III 123 Cortical Drill
O3CD35
O3CD40
O3CD45
O3CD50

TS NoMount Driver
TSNMDML
TSNMDRL

TS Fixture Driver
GSMFDL
GSRFDL

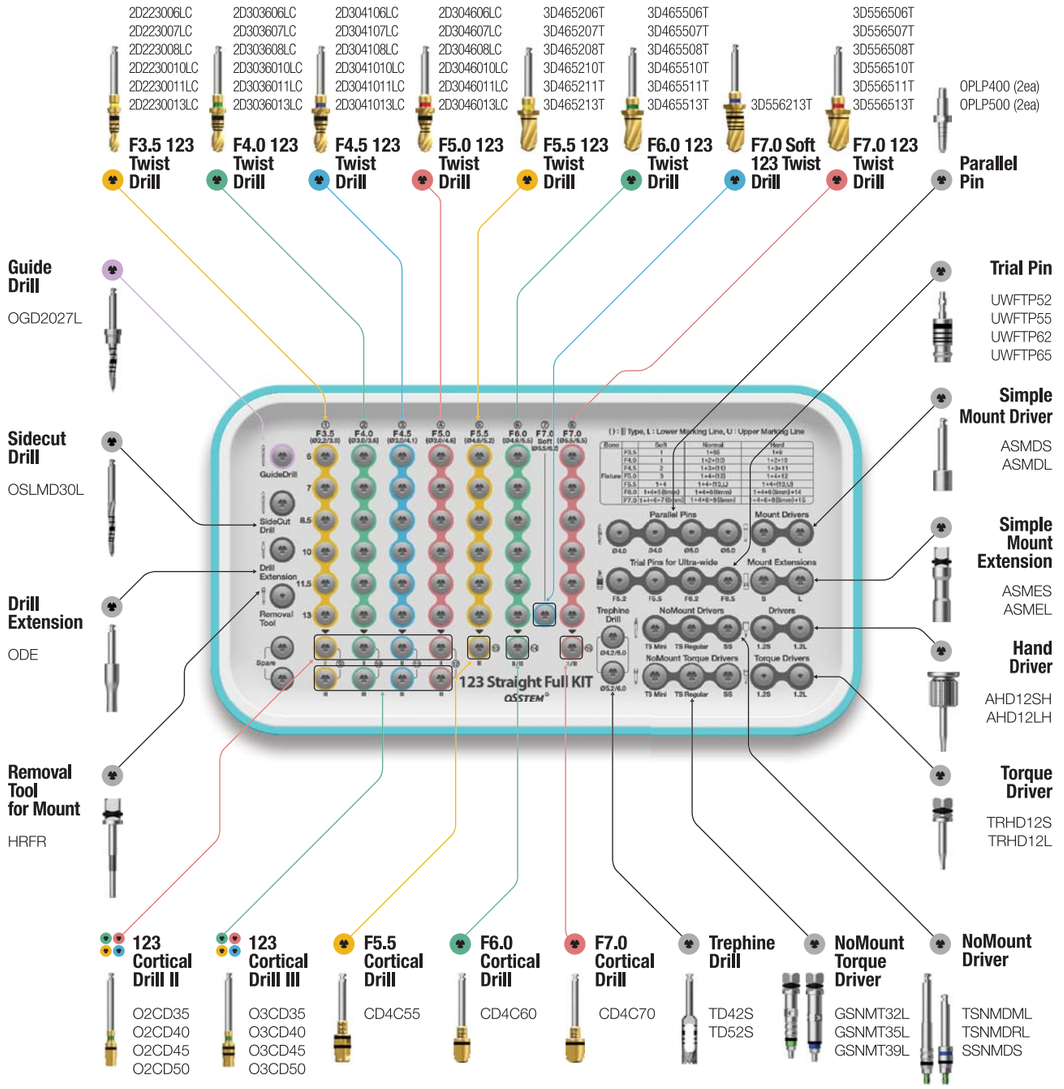
SS NoMount Driver
SSNMDS

SS Fixture Driver
SSRFDL

Simple Mount Extension
ASMES
ASMEL

123 Straight Full KIT (O123STFK)

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



2D223006LC
2D223007LC
2D223008LC
2D2230010LC
2D2230011LC
2D2230013LC
F3.5 123 Twist Drill

2D303606LC
2D303607LC
2D303608LC
2D3036010LC
2D3036011LC
2D3036013LC
F4.0 123 Twist Drill

2D304106LC
2D304107LC
2D304108LC
2D3041010LC
2D3041011LC
2D3041013LC
F4.5 123 Twist Drill

2D304606LC
2D304607LC
2D304608LC
2D3046010LC
2D3046011LC
2D3046013LC
F5.0 123 Twist Drill

3D465206T
3D465207T
3D465208T
3D465210T
3D465211T
3D465213T
F5.5 123 Twist Drill

3D465506T
3D465507T
3D465508T
3D465510T
3D465511T
3D465513T
F6.0 123 Twist Drill

3D556213T
F7.0 Soft 123 Twist Drill

3D556506T
3D556507T
3D556508T
3D556510T
3D556511T
3D556513T
F7.0 123 Twist Drill

OPLP400 (2ea)
OPLP500 (2ea)
Parallel Pin

Guide Drill
OGD2027L

Trial Pin
UWFTP52
UWFTP55
UWFTP62
UWFTP65

Sidecut Drill
OSLMD30L

Simple Mount Driver
ASMDS
ASMDL

Drill Extension
ODE

Simple Mount Extension
ASMES
ASMEL

Removal Tool for Mount
HRFR

Hand Driver
AHD12SH
AHD12LH

Torque Driver
TRHD12S
TRHD12L

123 Cortical Drill II
O2CD35
O2CD40
O2CD45
O2CD50

123 Cortical Drill III
O3CD35
O3CD40
O3CD45
O3CD50

F5.5 Cortical Drill
CD4C55

F6.0 Cortical Drill
CD4C60

F7.0 Cortical Drill
CD4C70

Trephine Drill
TD42S
TD52S

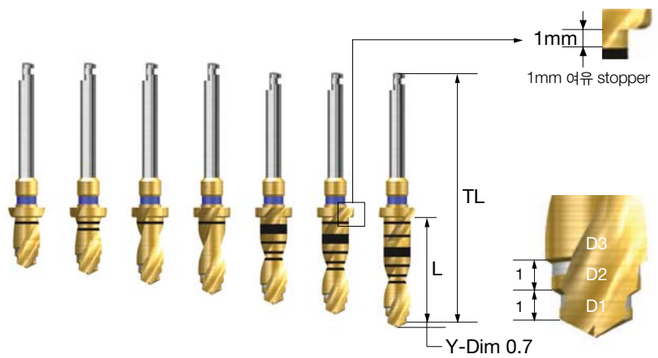
NoMount Torque Driver
GSNMT32L
GSNMT35L
GSNMT39L

NoMount Driver
TSNMDML
TSNMDRL
SSNMDS

123 Straight KIT Surgical Instruments

123 Twist Drill - Stopper Drill

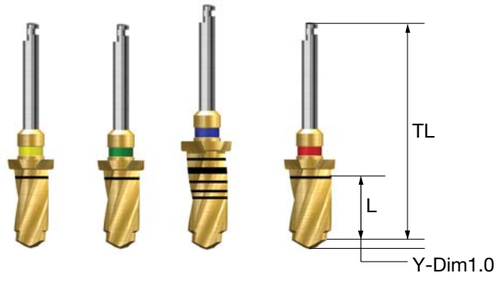
- A straight drill (it has stopper) to shorten the number of drilling
- 123 drill color coding shows diameter and main fixture used
- F = Fixture



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

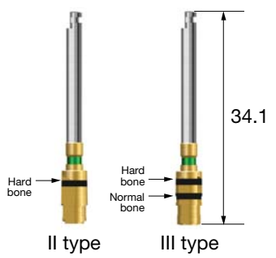
- Two-stage drill with both pilot drill and twist drill
- A straight drill (It has stopper) to shorten the number of drilling
- F7.0 fixture on soft bone uses dedicated drill
- F = Fixture



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

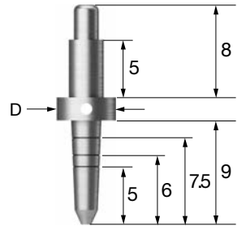
- Drill used to remove cortical bone from hard bone
- Recommend drilling to bottom line of marking line
- II type marking line : hard bone standard
- III type marking line : lower line normal bone, upper line hard bone standard
- IV type marking line : normal bone standard
- Color coding displays diameter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

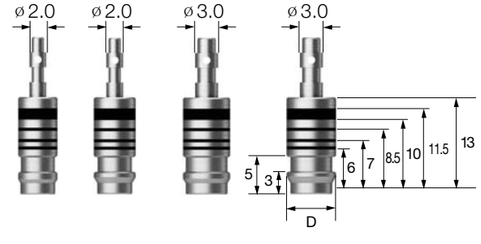
- Parallel pin for 123 twist drill
- Used to check position and orientation of bone preparation
- Lower end for initial drill, upper end for F3.5 (ø2.2/3.0) drill



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

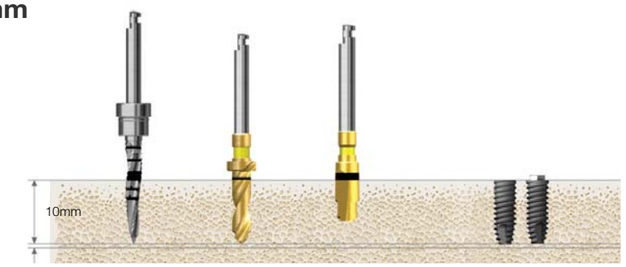
※ Refer to surgical instruments for other components (106p~)

Drilling Sequence II Type 123 Twist Drill

TSII | SSII | USII

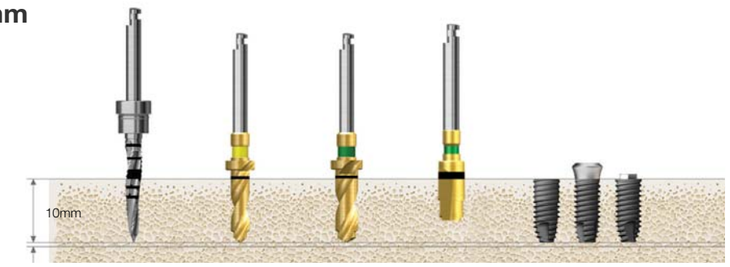
(Length : 10mm)

ø3.5mm



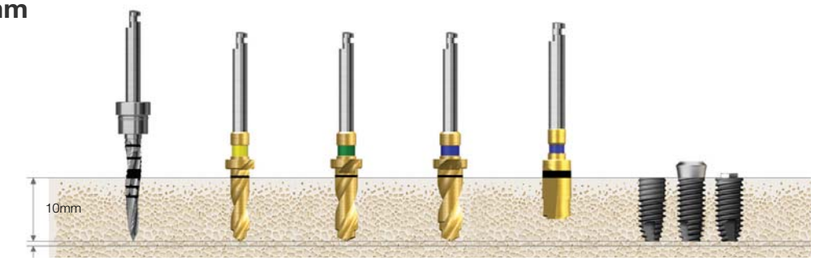
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	Cortical Drill	ø 3.5 Fixture
Soft	▶	▶		Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

ø4.0mm



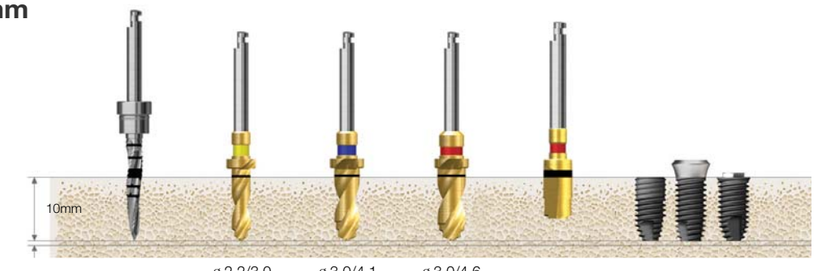
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/3.6 Drill	Cortical Drill	ø 4.0 Fixture
Soft	▶	▶			Implant Placement
Normal	▶	▶	▶		
Hard	▶	▶	▶	▶	

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	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶		▶	▶	

ø5.0mm



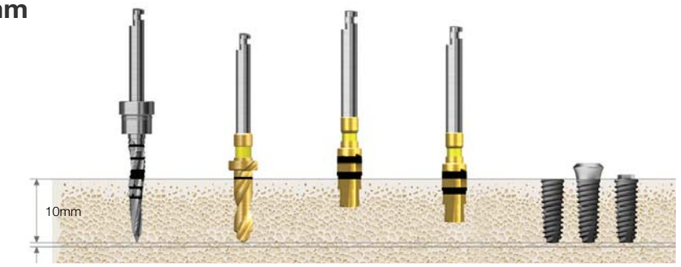
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/4.1 Drill	ø 3.0/4.6 Drill	Cortical Drill	ø 5.0 Fixture
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶		▶	▶	

Drilling Sequence III Type 123 Twist Drill

TSIII | SSIII | USIII

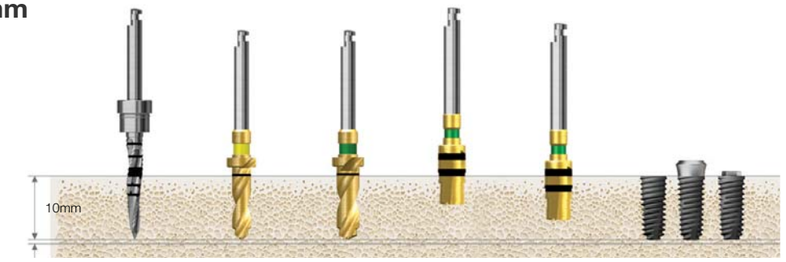
(Length : 10mm)

ø3.5mm



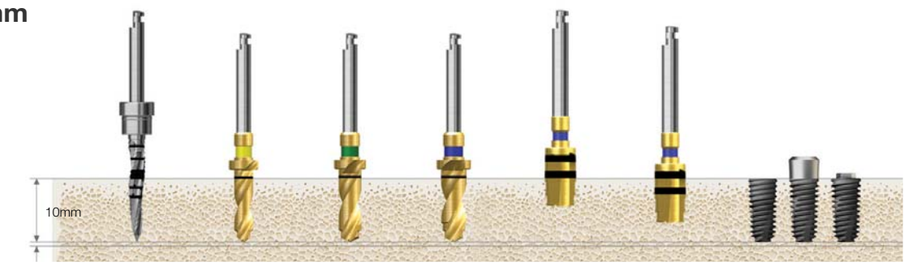
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	F3.5 Cortical Drill (Bottom Line)	F3.5 Cortical Drill (Upper Line)	ø 3.5 Fixture
Soft	▶	▶			Implant Placement
Normal	▶	▶	▶		
Hard	▶	▶		▶	

ø4.0mm



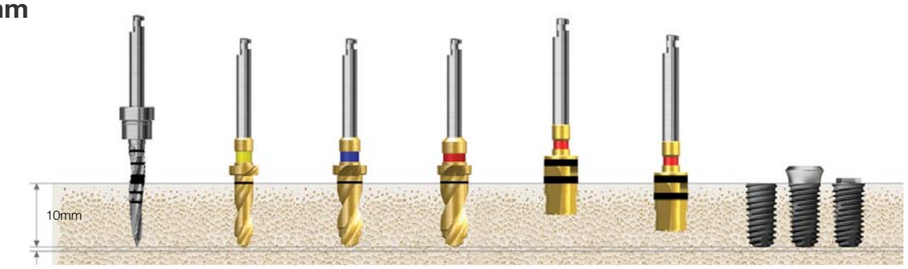
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/3.6 Drill	F4.0 Cortical Drill (Bottom Line)	F4.0 Cortical Drill (Upper Line)	ø 4.0 Fixture
Soft	▶	▶				Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶		▶	

ø4.5mm



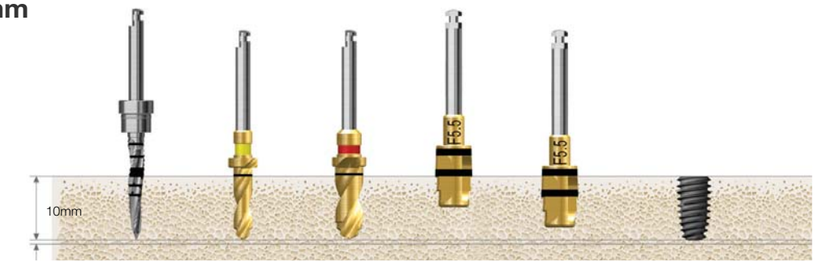
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/3.6 Drill	ø 3.0/4.1 Drill	F4.5 Cortical Drill (Bottom Line)	F5.0 Cortical Drill (Upper Line)	ø 4.5 Fixture
Soft	▶		▶				Implant Placement
Normal	▶	▶		▶	▶		
Hard	▶	▶		▶		▶	

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	▶		▶				Implant Placement
Normal	▶	▶		▶	▶		
Hard	▶	▶		▶		▶	

ø5.5mm



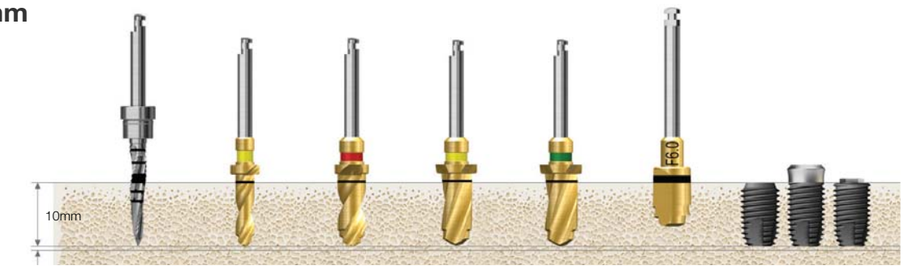
Bone Quality	Guide Drill	ø 2.2/3.0 Drill	ø 3.0/4.6 Drill	F5.5 Cortical Drill (Bottom Line)	F5.5 Cortical Drill (Upper Line)	ø 5.5 Fixture
Soft	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶		▶	

Drilling Sequence Ultra-wide 123 Twist Drill

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

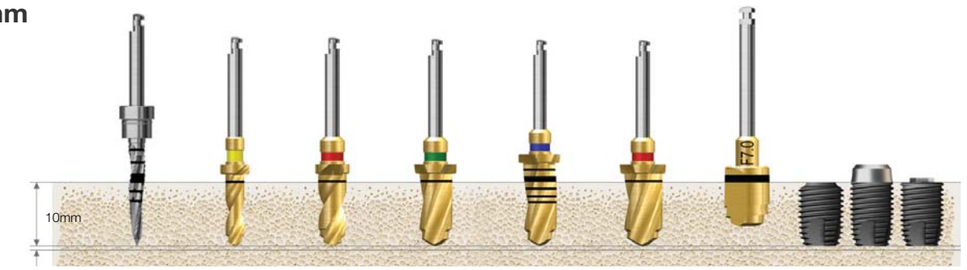
(Length : 10mm)

Ø6.0mm



Bone Quality	Guide Drill	ø 2.0/3.0 Drill	ø 3.0/4.6 Drill	ø 4.6/5.2 Drill	ø 4.6/5.5 Drill	F6.0 Cortical Drill	ø 6.0 Fixture
Soft	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶		▶		
Hard	▶	▶	▶		▶	▶	

Ø7.0mm



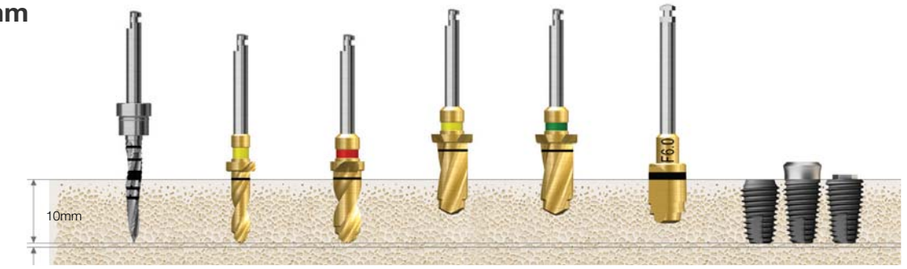
Bone Quality	Guide Drill	ø 2.0/3.0 Drill	ø 3.0/4.6 Drill	ø 4.6/5.5 Drill	ø 5.5/6.2 Drill (F7.0 Soft)	ø 5.5/6.5 Drill	F7.0 Cortical Drill	ø 7.0 Fixture
Soft	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		▶		
Hard	▶	▶	▶	▶		▶	▶	

Drilling Sequence Ultra-wide 123 Twist Drill

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

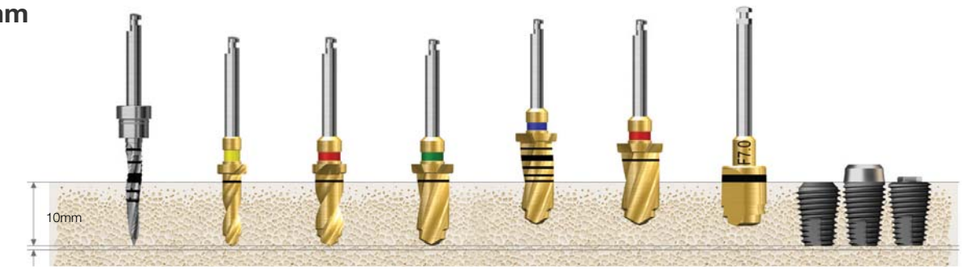
(Length : 10mm)

Ø6.0mm



Bone Quality	Guide Drill	ø 2.0/3.0 Drill	ø 3.0/4.6 Drill	ø 4.6/5.2 Drill	ø 4.6/5.5 Drill	F6.0 Cortical Drill	ø 6.0 Fixture
Soft	▶	▶	▶	▶(6mm)			Implant Placement
Normal	▶	▶	▶		▶(6mm)		
Hard	▶	▶	▶		▶(6mm)	▶	

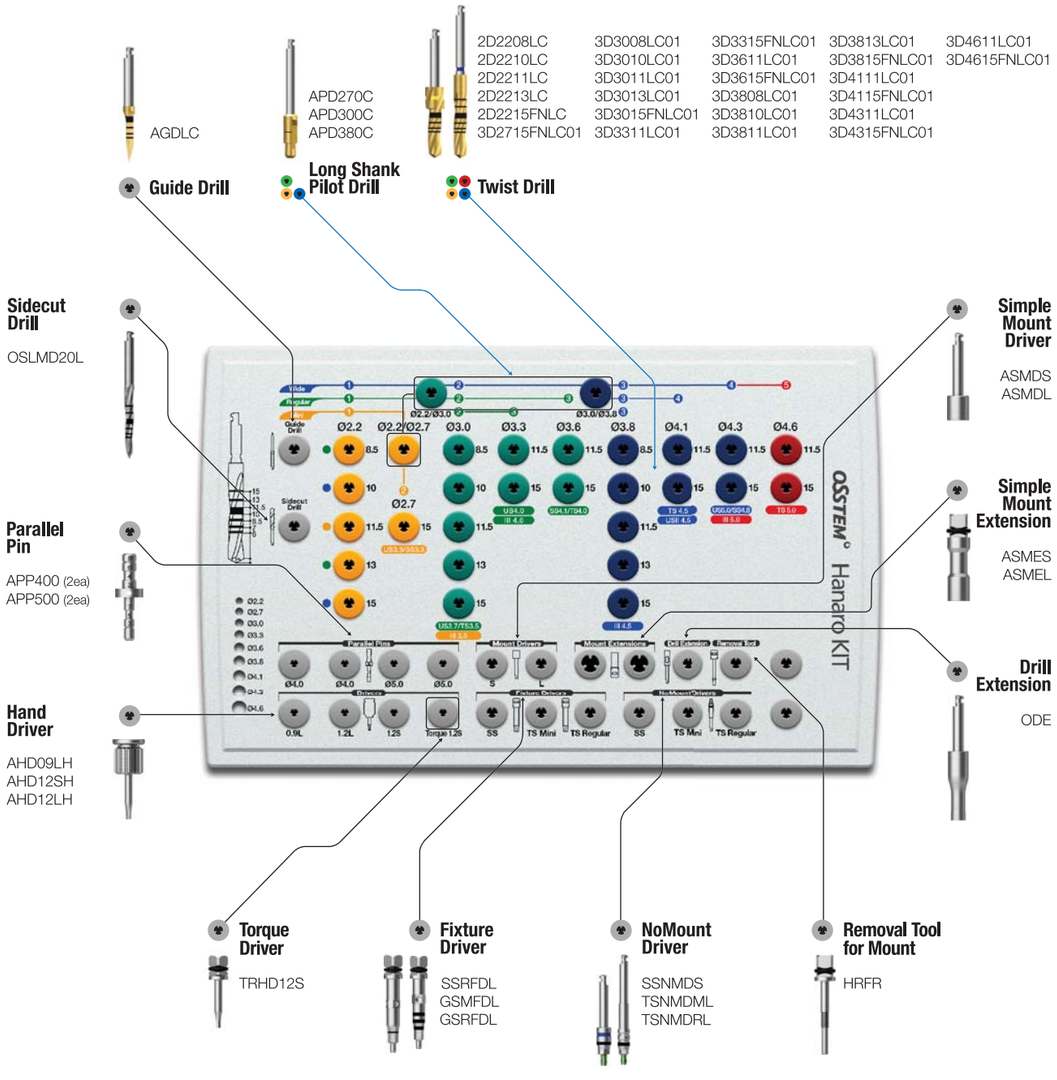
Ø7.0mm

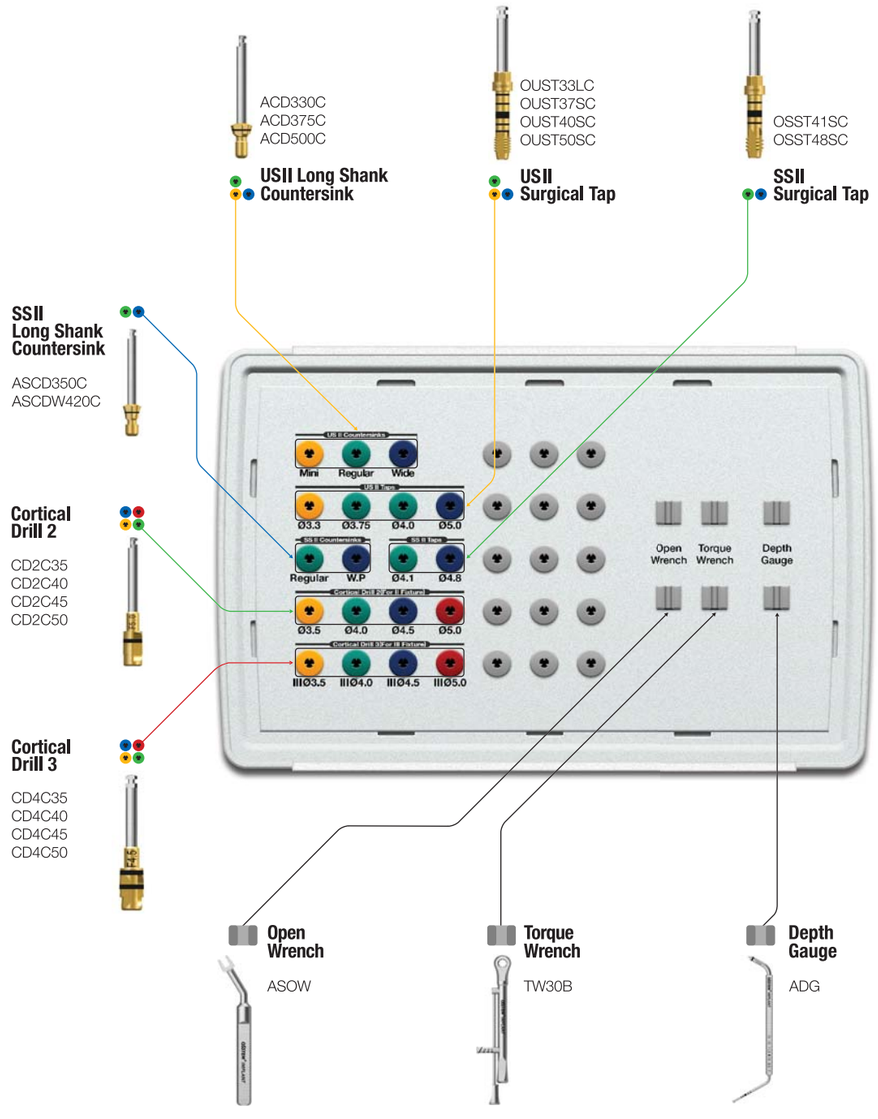


Bone Quality	Guide Drill	ø 2.0/3.0 Drill	ø 3.0/4.6 Drill	ø 4.6/5.5 Drill	ø 5.5/6.2 Drill (F7.0 Soft)	ø 5.5/6.5 Drill	F7.0 Cortical Drill	ø 7.0 Fixture
Soft	▶	▶	▶	▶	▶(6mm)			Implant Placement
Normal	▶	▶	▶	▶		▶(6mm)		
Hard	▶	▶	▶	▶		▶(6mm)	▶	

New Hanaro KIT (HKA2)

For TSII / III SSII / III USII / III

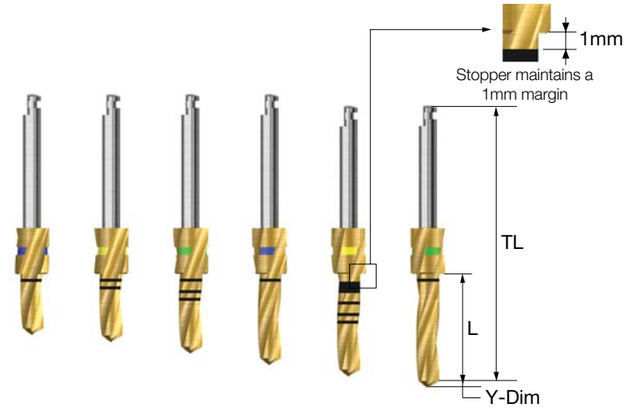




New Hanaro KIT Surgical Instruments

Twist Drill - Stopper Drill

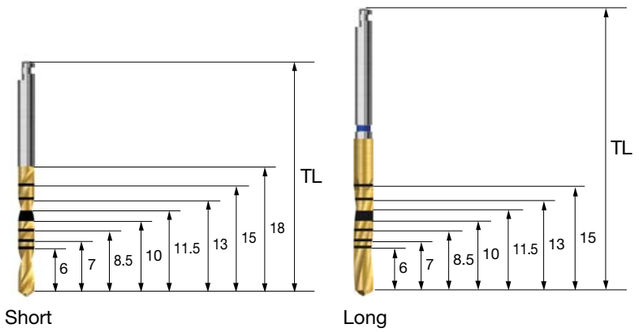
- Long stopper (6mm)
  : can be performed without drill extension in posterior surgery
- Color coding of stopper part shows drill length



L	TL / D	Ø2.2	Ø3.0	Ø3.3	Ø3.6	Ø3.8	Ø4.1	Ø4.3	Ø4.6
	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	-	-	-

Twist Drill - Non Stopper Drill

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

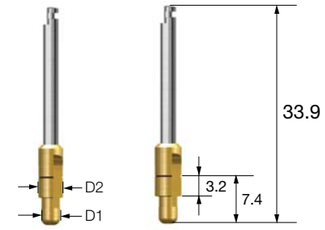


TL / D	Ø1.5	Ø2.0	Ø2.2	Ø2.7	Ø3.0	Ø3.3
33	2D1518FNLC	2D2018FNLC	2D2218FNLC	3D2718FNLC	3D3018FNLC	3D3318FNLC
41	-	-	2D2215FNLC01	3D2715FNLC01	3D3015FNLC01	3D3315FNLC01

TL / D	Ø3.6	Ø3.8	Ø4.1	Ø4.3	Ø4.6
33	3D3618FNLC	3D3818FNLC	3D4118FNLC	3D4318FNLC	3D4618FNLC
41	3D3615FNLC01	3D3815FNLC01	3D4115FNLC01	3D4315FNLC01	3D4615FNLC01

Long Shank Pilot Drill

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



D1 / D2	Ø2.0 / 2.7	Ø2.0 / 3.0	Ø3.0 / 3.8	Ø3.0 / 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

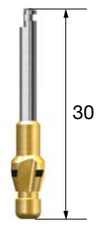
Cortical Drill 3 for Taper Fixture (TSIII, SSIII, USIII)

- 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

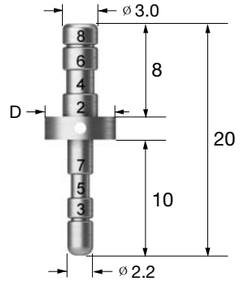
Straight Fixture Tap for TSII, USII, SSII SA

- 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~)

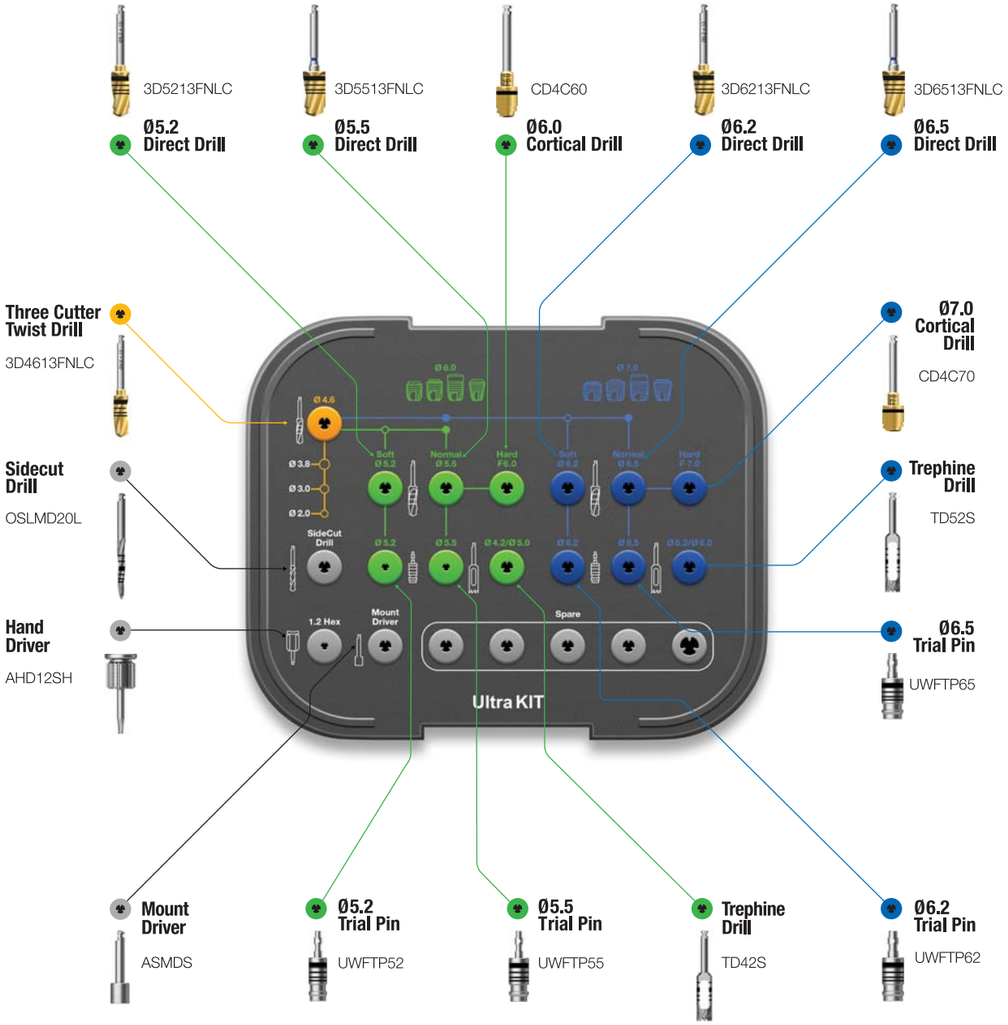
Ultra KIT (HULTRK)

For Ultra-wide

Lower panel components

Open Wrench
SPOW

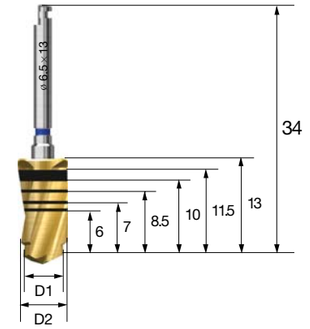
Ratchet Wrench
RCWC



Ultra KIT Surgical Instruments

Direct Drill

- Direct drill : two-step drill that functions like a pilot and twist drill
- Final drilling is possible without using pilot drilling
- Increases initial stability in an extraction socket due to the reduced dead space at the apex

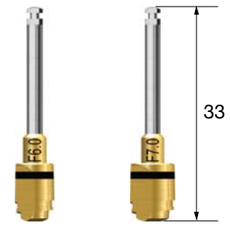


D1 / D2	Ø4.6 / 5.2	Ø4.6 / 5.5	Ø5.5 / 6.2	Ø5.5 / 6.5
	3D5213FNLC	3D5513FNLC	3D6213FNLC	3D6513FNLC

Cortical Drill for Ultra-wide

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

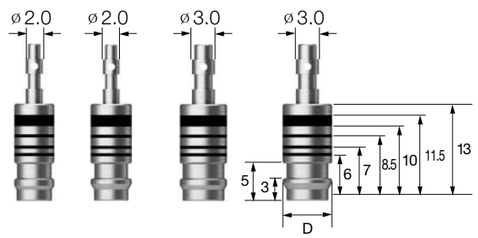
F6.0	F7.0
CD4C60	CD4C70



Trial Pin for Ultra-wide

- Measures the width and depth of a failed implant site
- Measure the drilling depth after using the direct drill as the final drill
- Also serves as a parallel pin

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 **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	F3.5 Cortical Drill	F3.5 Straight Fixture Tap	ø **3.5 Fixture**
Soft	▶	▶					Implant Placement
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	F4.0 Cortical Drill	F4.0 Straight Fixture Tap	ø **4.0 Fixture**
Soft	▶	▶	▶	▶				Implant Placement
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	F4.5 Cortical Drill	F4.5 Straight Fixture Tap	ø **4.5 Fixture**
Soft	▶	▶	▶	▶	▶				Implant Placement
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	▶	▶	▶	▶	▶	▶				Implant Placement
Normal	▶	▶	▶	▶	▶		▶			
Hard	▶	▶	▶	▶	▶		▶	▶		
Hard (Option)	▶	▶	▶	▶	▶		▶		▶	

Recommended insertion torque ≤40Ncm

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

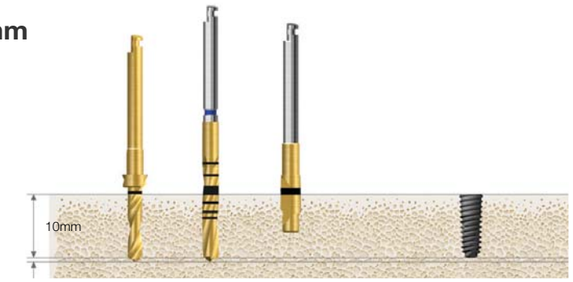
TSIII | SSIII | USIII

(Length : 10mm)

Recommended insertion torque ≤40Ncm, for the TSIII/SSIII HA : ≤35Ncm (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

ø3.0mm



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

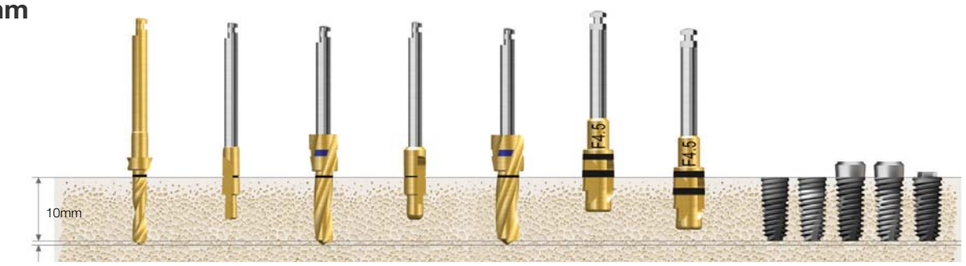
ø3.5mm

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	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶		▶	

ø4.0mm

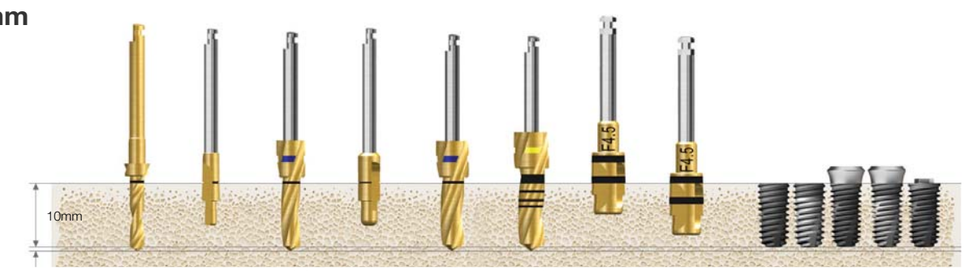
Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.3 Drill	F4.0 Cortical Drill 3	F4.0 Cortical Drill 3	ø 4.0 Fixture
Soft	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶		
Hard	▶	▶	▶	▶		▶	

ø4.5mm



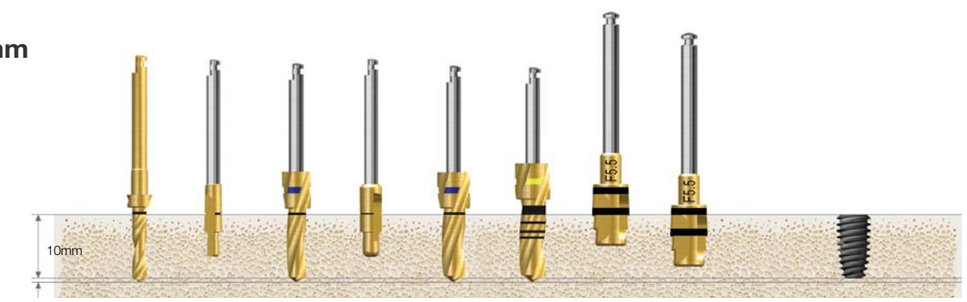
Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.0/3.8 Pilot Drill	ø 3.8 Drill	F4.5 Cortical Drill 3	F4.5 Cortical Drill 3	ø 4.5 Fixture
Soft	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶		
Hard	▶	▶	▶	▶	▶		▶	

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	F5.0 Cortical Drill 3	F5.0 Cortical Drill 3	ø 5.0 Fixture
Soft	▶	▶	▶	▶	▶				Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		
Hard	▶	▶	▶	▶	▶	▶		▶	

ø5.5mm



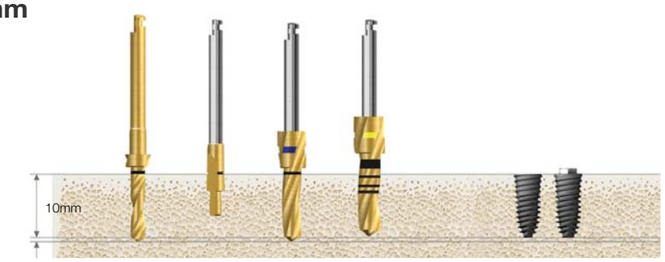
Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.0/3.8 Pilot Drill	ø 3.8 Drill	ø 4.6 Drill	F5.5 Cortical Drill 3	F5.5 Cortical Drill 3	ø 5.5 Fixture
Soft	▶	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		
Hard	▶	▶	▶	▶	▶	▶		▶	

Drilling Sequence IV Type **Straight Drill**

TSIV | USIV

(Length : 10mm)

Ø4.0mm



Bone Quality	ø 2.2 Drill	ø 2.0/3.0 Pilot Drill	ø 3.0 Drill	ø 3.0 Drill (Half)	ø **4.0 Fixture**
D4	▶				Implant Placement
Soft	▶	▶	▶	▶	

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 (Half)	ø **4.5 Fixture**
D4			▶				Implant Placement
Soft	▶	▶	▶	▶	▶	▶	

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 4.6 Drill (Half)	ø **5.0 Fixture**
D4			▶				Implant Placement
Soft	▶	▶	▶	▶	▶	▶	

Drilling Sequence Ultra-wide **Straight Drill**

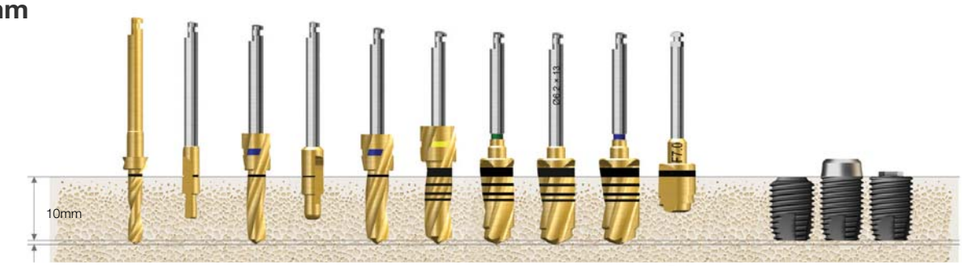
TSII Ultra-wide | SSII Ultra-wide | USII Ultra-wide

(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	▶	▶	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶		▶		
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	▶	▶	▶	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		▶		
Hard	▶	▶	▶	▶	▶	▶	▶		▶	▶	

Recommended insertion torque ≤40Ncm
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 aggresive threads

Drilling Sequence Ultra-wide Straight Drill

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

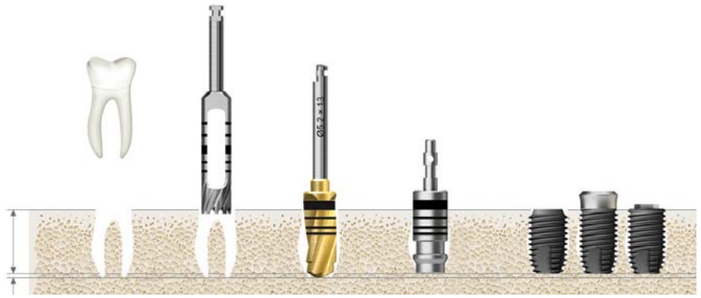
(Length : 10mm)

ø6.0mm

Drilling sequence with trephine in the healed mature bone

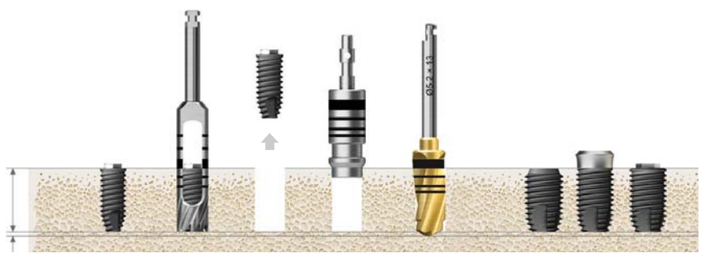
Bone Quality	ø 4.2/5.0 Trephine Drill	ø 4.6/5.2 Direct Drill	ø 4.6/5.5 Direct Drill	F6.0 Cortical Drill	ø 6.0 Fixture
Soft	▶	▶			Implant Placement
Normal	▶		▶		
Hard	▶		▶	▶	

Immediate placement at the extraction socket



ø 4.2/ø 5.0 Trephine 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



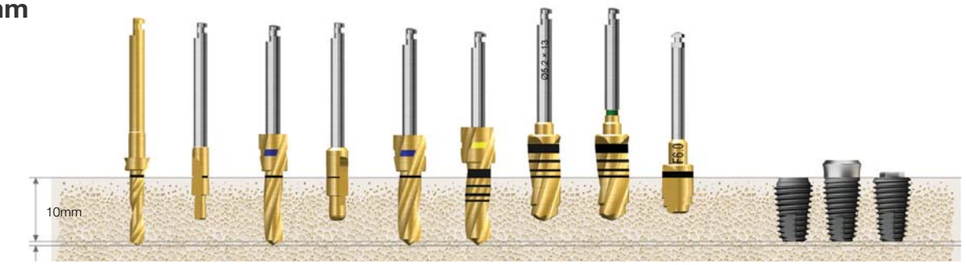
ø 4.0 Failed Fixture	ø 4.2/ø 5.0 Trephine Drill	ø 5.5 Trial Pin	ø 4.6/ø 5.5 Direct Drill	6.0 Ultra-Wide Fixture

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	▶	▶	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶		▶		
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	▶	▶	▶	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		▶		
Hard	▶	▶	▶	▶	▶	▶	▶		▶	▶	

Recommended insertion torque ≤40Ncm

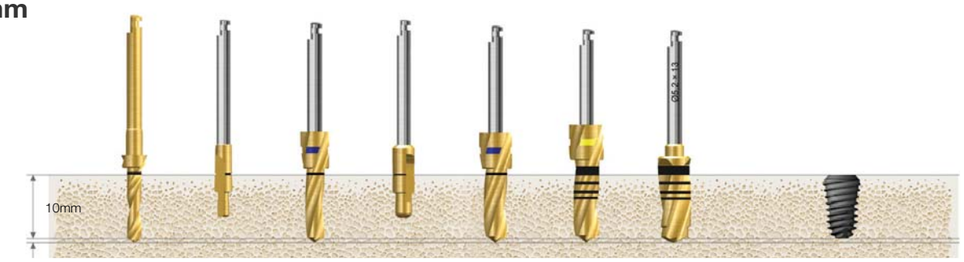
TS fixture insertion depth The normal/hard bone is placed 1mm deeper than the bone level, and the soft bone is placed at the bone level to maintain the fixed strength

Drilling Sequence **Ultra-wide** **Straight Drill**

TSIV Ultra-wide | USIV Ultra-wide

(Length : 10mm)

ø6.0mm



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 6.0 Fixture
D4	▶	▶			▶			Implant Placement
Soft	▶	▶	▶	▶	▶	▶	▶	

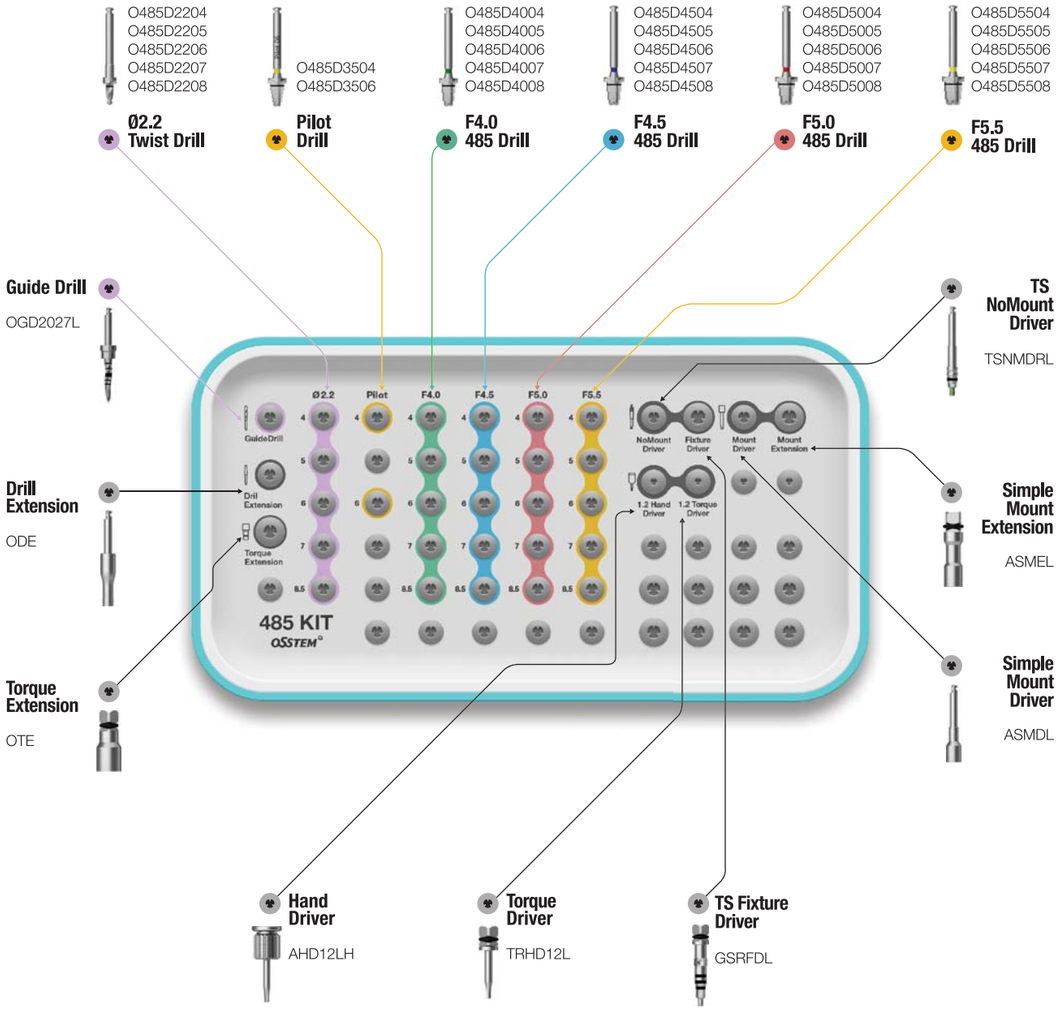
ø7.0mm

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 7.0 Fixture
D4	▶	▶			▶	▶			Implant Placement
Soft	▶	▶	▶	▶	▶	▶	▶	▶	

Recommended insertion torque ≤40Ncm

485 KIT (O485K)

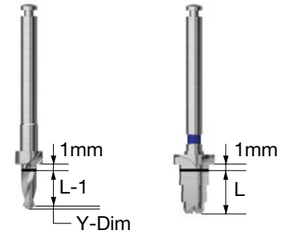
For TSIII SSIII USIII



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



Twist drill 485 drill

L \ Type	Ø2.2	Pilot	F4.0	F4.5	F5.0	F5.5
4.0	O485D**2204**	O485D**3504**	O485D**4004**	O485D**4504**	O485D**5004**	O485D**5504**
5.0	O485D**2205**	-	O485D**4005**	O485D**4505**	O485D**5005**	O485D**5505**
6.0	O485D**2206**	O485D**3506**	O485D**4006**	O485D**4506**	O485D**5006**	O485D**5506**
7.0	O485D**2207**	-	O485D**4007**	O485D**4507**	O485D**5007**	O485D**5507**
8.5	O485D**2208**	-	O485D**4008**	O485D**4508**	O485D**5008**	O485D**5508**

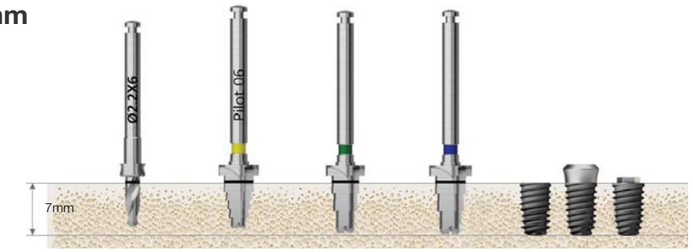
※ Refer to surgical instruments for other components (106p~)

Drilling Sequence **485 Drill**

TSIII | SSIII | USIII

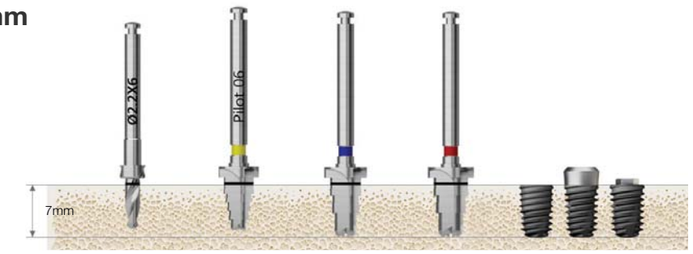
(Length : 7mm)

ø4.0mm



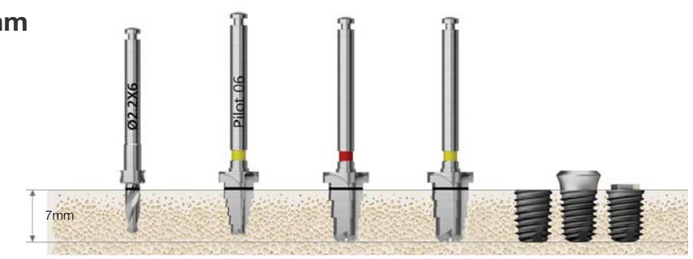
Bone Quality	ø 2.2 Drill	Pilot Drill	F4.0 485 Drill	F4.5 485 Drill	ø **4.0 Fixture**
Normal	▶	▶	▶		Implant Placement
Hard	▶	▶		▶	

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



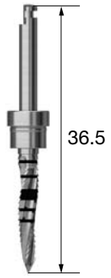
Bone Quality	ø 2.2 Drill	Pilot Drill	F5.0 485 Drill	F5.5 485 Drill	ø **5.0 Fixture**
Normal	▶	▶	▶		Implant Placement
Hard	▶	▶		▶	

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

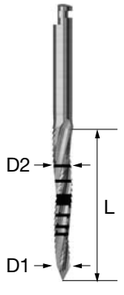
- Used to create an hole in the bone to facilitate initial drilling
- Bone density can be determined by drilling
- Taper KIT single Item (excluded from 122 taper KIT)

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)

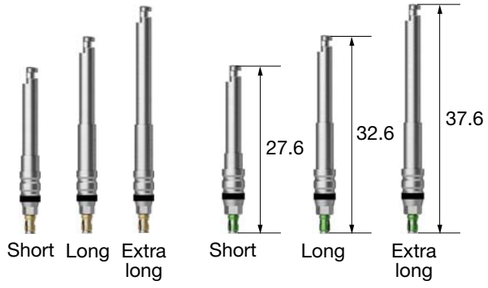
L \ D1 / D2	Ø1.5 / 2.0	Ø2.0 / 2.5	Ø3.0 / 3.5
13	OSLM**DS**	OSLMD**20S**	-
16.5	-	-	OSLMD**30L**
20	OSLM**DL**	OSLMD**20L**	-



NoMount Driver for TS

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

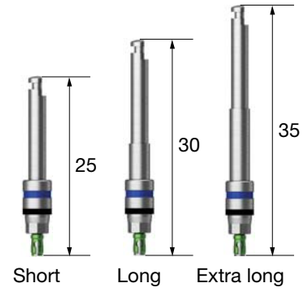
L \ C	Mini	Regular
Short	TSNMDMS	TSNMDRS
Long	TSNMDML	TSNMDRL
Ex.Long	TSNMDME	TSNMDRE



NoMount Driver for SS

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

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

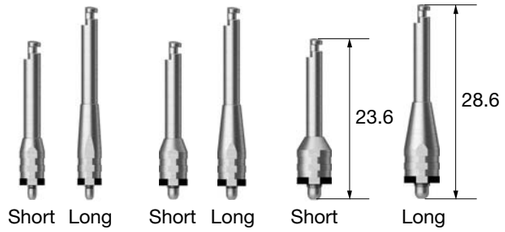


Surgical Instruments

NoMount Driver for US

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

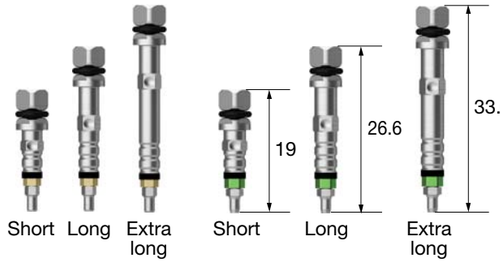
L \ C	Mini	Regular	Wide
Short	USNMD35MS	USNMD41RS	USNMD51WS
Long	USNMD35ML	USNMD41RL	USNMD51WL



NoMount Torque Driver for TS

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

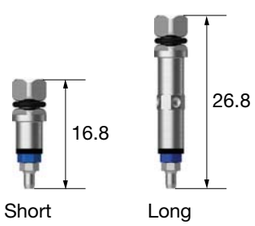
L \ C	Mini	Regular
Short	GSNMT32S	GSNMT35S
Long	GSNMT32L	GSNMT35L
Ex.Long	GSNMT32E	GSNMT35E



NoMount Torque Driver for SS

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

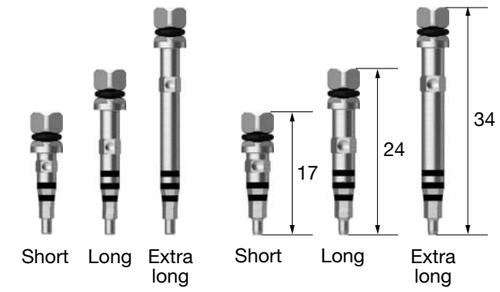
L \ C	Regular / Wide
Short	SSNMT39S
Long	SSNMT39L



Fixture Driver for TS

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

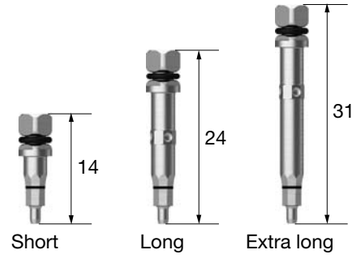
L \ C	Mini	Regular
Short	GSMFDS	GSRFDS
Long	GSMFDL	GSRFDL
Ex.Long	GSMFDE	GSRFDE



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

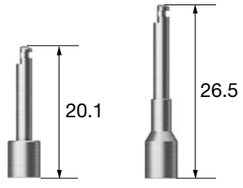
Torque Extension

- Extends the length of an instrument by 10mm

OTE

Simple Mount Driver

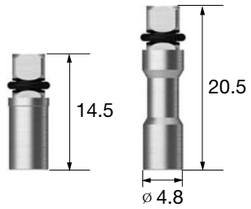
- Connects to mounted fixtures for placement



L	
Short	ASMDS
Long	ASMDL

Simple Mount Extension

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



L	
Short	ASMES
Long	ASMEL

Simple Open Wrench

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

ASOW

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	HRFR	ERFW

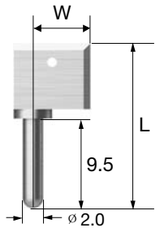
Depth Gauge

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

OSDG

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

HGTHGS

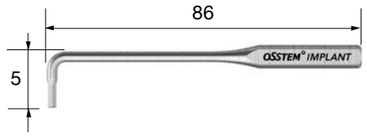
Surgical Instruments

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

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

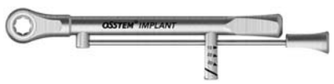
MX30

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



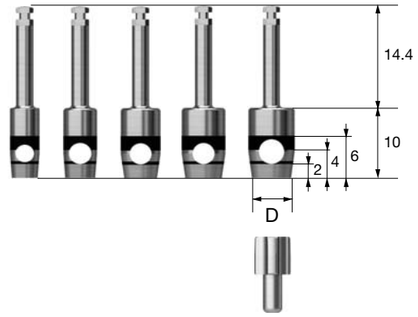
- Adjusts the implant depth, and tightens abutments, screws, etc.
- Pull the bar back until reaching the desired torque value

TW30B

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



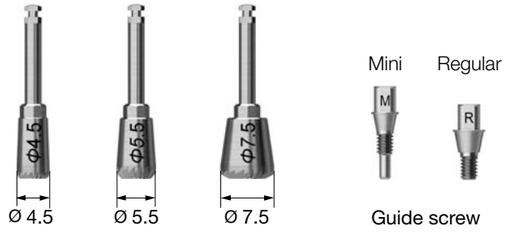
D	Ø3.3	Ø3.8	Ø4.3	Ø4.8	Ø5.3
	OSTP33	OSTP38	OSTP43	OSTP48	OSTP53
TS	Ø 4.0/4.5	Ø 4.5/5.0	Ø 5.0	Ø 6.0	Ø 6.0
SS	-	Ø 4.8	-	Ø 6.0	Ø 6.0
US	Ø 4.0	Ø 5.0	Ø 5.0	Ø 6.0	Ø 6.0

Application healing abutment standard

Surgical Instruments

TS Bone Profiler

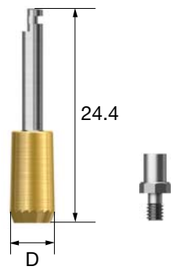
- Trims the bone surrounding a fixture for one stage and two stage procedures
- Connect the guide screw to the fixture in order to center the profiler. Make sure to compensate for the healing abutment.
- Guide screw protects the fixture's platform from damage
- Packing unit : bone profiler + guide screw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

US Bone Profiler

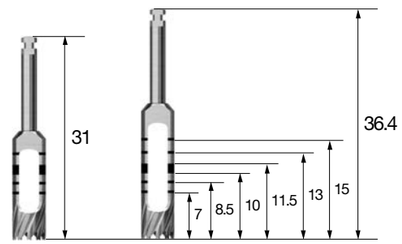
- Trims the bone surrounding a fixture and cover screw after a two stage procedure
- Remove cover screw, connect the guide screw to the fixture in order to center the profiler. Make sure to compensate for the healing abutment.
- Guide screw protects the fixture's hex from damage
- Packing unit : bone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



D \ P	Mini	Regular	Wide	T-type
Ø4.0	ABPM**400C**	-	-	-
Ø5.0	ABPM**500C**	ABPR**500C**	-	-
Ø6.0	-	ABPR**600C**	ABPW**600C**	TBPW**600C**
Ø7.0	-	-	ABPW**700C**	-

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

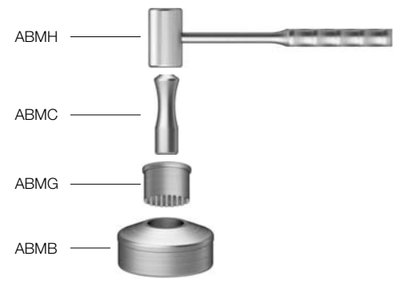
Machine Driver Handle

- Manual handle for engine type surgical tools

OMDH

Bone Mill

- Generates particulate bone with harvested autogenous bone



ABM

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

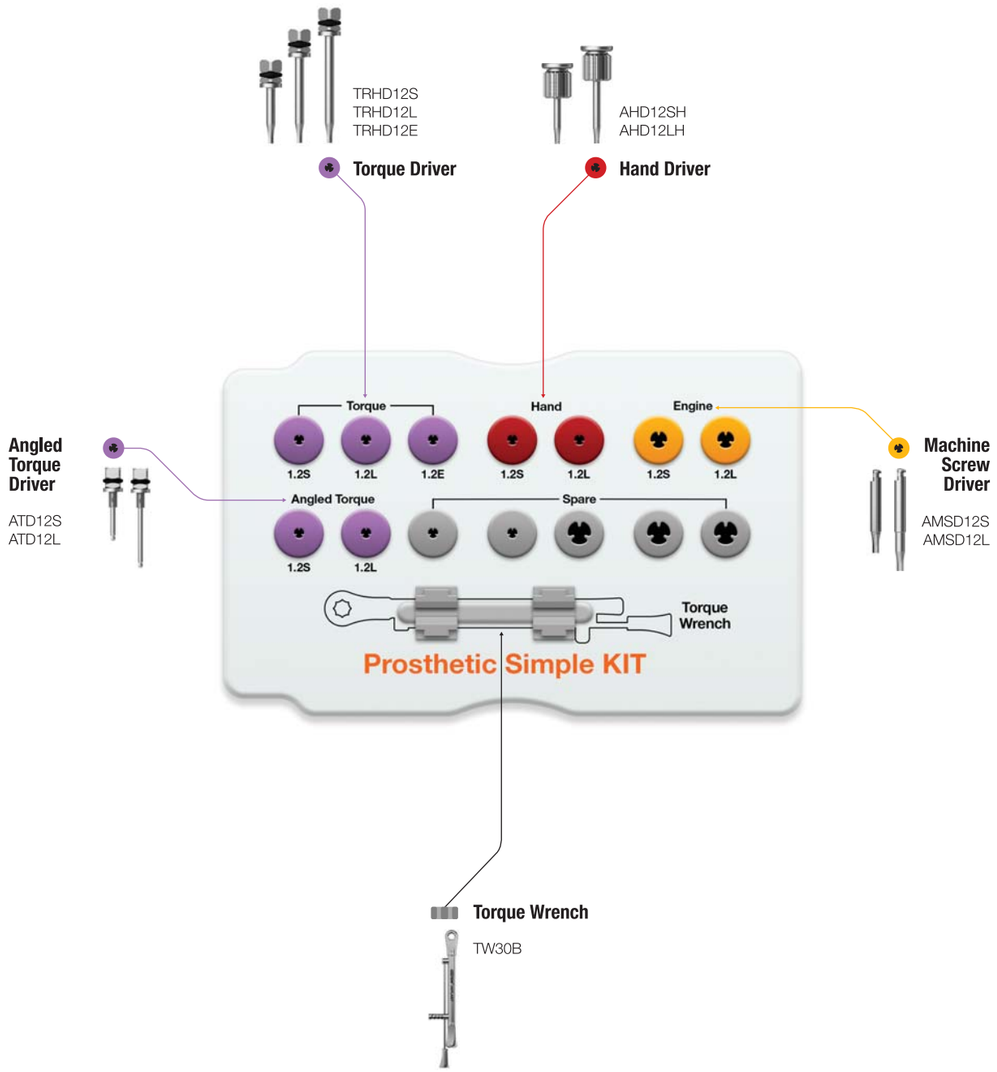
AHDI

Torque Handle

- 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

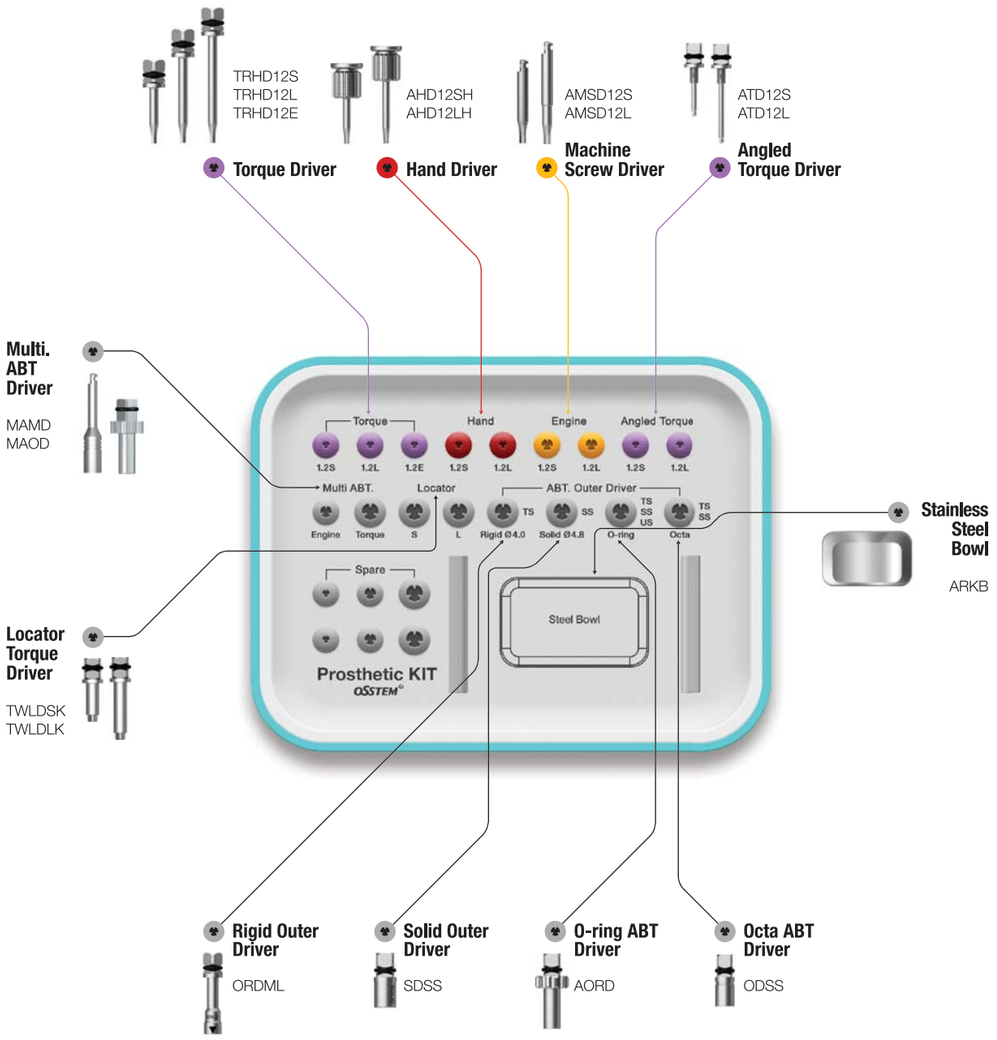
Prosthetic Simple KIT (OPSK)



Prosthetic KIT (OPK)

Top panel components

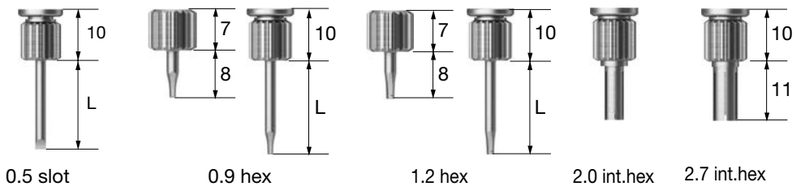
Torque Wrench
TW30B



Prosthetic KIT Surgical Instruments

Hand Driver

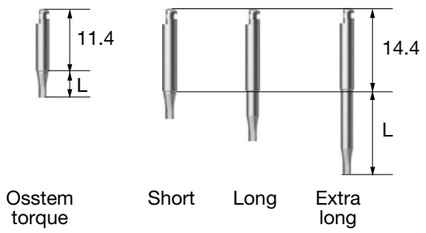
- Manual driver
- Tip holding function (except internal hex type)
- Internal hex type length : 11



L \ Type	0.5 Slot	0.9 Hex	1.2 Hex	2.0 Int.Hex	2.7 Int.Hex
Ex.Short (8)	-	AHD**09MSH**	AHD**12MSH**	-	-
Short (13)	ASD**05SH**	AHD**09SH**	AHD**12SH**	IHD**20H**	IHD**27H**
Middle (15)	-	-	AHD**12MH**	-	-
Long (18)	ASD**05LH**	AHD**09LH**	AHD**12LH**	-	-
Ex.Long (25)	-	-	AHD**12EH**	-	-

Machine Screw Driver

- Engine driver
- Tip holding function (except internal hex type)
- Internal hex type length : 8



L \ Type	0.5 Slot	0.9 Hex	1.2 Hex	2.0 Int.Hex	2.7 Int.Hex
Osstem Torque (5)	-	-	OTH**12S**	-	-
Short (5.6)	AMSD**05S**	AMSD**09S**	AMSD**12S**	-	-
Long (11.6)	AMSD**05L**	AMSD**09L**	AMSD**12L**	EIHD**20**	EIHD**27**
Ex.Long (17.6)	-	-	AMSD**12E**	-	-

Application

Driver Applied Products
(hand, machine screw, torque drier common)

Cover screw (US mini)	Healing abutment, UCLA, Cemented abutment screw, Mount screw	Esthetic abutment screw regular, Esthetic-low abutment screw, standard	Wide esthetic-low abutment screw

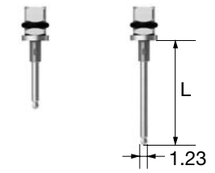
Torque Driver

- Driver for torque wrench
- Tip holding function
- Recommended use (excessive torque causes fracture)
- Possible to generate fracture even at low torque when it is applied after incomplete fastening
- When torque is applied, it should be vertically erected and torque is requested
- If tip is bent for long period of use or over torque, be sure to replace it

L \ Type	0.5 Slot	0.9 Hex	1.2 Hex	2.0 Int.Hex	2.7 Int.Hex
Ex.Short (8)	-	-	TRHD**12MS**	-	-
Short (13)	TRSD**05S**	TRHD**09S**	TRHD**12S**	TIHD**20S**	-
Middle (15)	-	-	TRHD**12M**	-	-
Long (20)	TRSD**05L**	TRHD**09L**	TRHD**12L**	TIHD**20L**	TIHD**27**
Ex.Long (25)	TRSD**05E**	-	TRHD**12E**	-	-

Angled Torque Driver

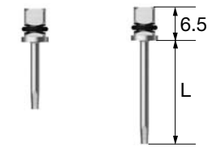
- Driver for torque wrench
- No holding function
- Recommended tightening torque: 30Ncm (excessive torque causes fracture)
- Do not remove tube to prevent fragmentation when broken
- Recommended use : 10 times
- Set : 3ea



L \ Type	1.2 Hex	1.2 Hex (Set)
Short (13)	ATD12S	ATD12S3S
Long (20)	ATD12L	ATD12L3S

Repair Torque Driver

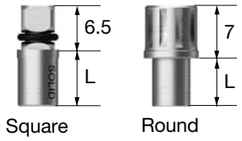
- Reduced diameter compared to torque driver (⌀ 2.1 → 1.6)
- The diameter of the crown hole can be minimized during prosthetic repair or SCRP procedures



L \ Type	1.2 Hex
Short (13)	TRHD12SR
Long (20)	TRHD12LR

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

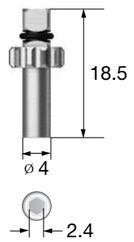
Wide

L \ Type	Square
Short (10)	ESD60S

O-ring Abutment Driver

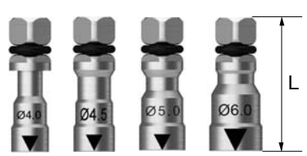
- Driver for o-ring abutment

AORD



Rigid Outer Driver

- Driver for rigid abutment
- Recommended torque : 30Ncm

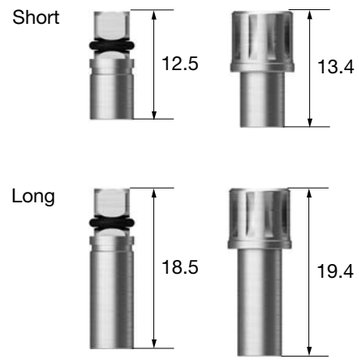


L \ D (Abutment)	Ø4.0	Ø4.5	Ø5.0	Ø6.0
Short (16.5)	ORDMS	ORD45S	ORDRS	ORDWS
Long (21.5)	ORDML	ORD45L	ORDRL	ORDWL

Octa Abutment Driver

- Driver for octa abutment
- Recommended torque : 30Ncm

L \ Type	Square	Round
Short	ODSS	ODRS
Long	ODSL	ODRL



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

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 ⌀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

Multi Abutment Outer Driver

- Torque driver for multi abutment

MAOD

Locator® Torque Driver

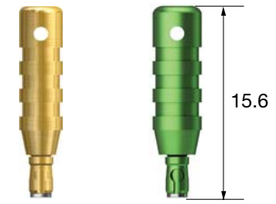
- Torque driver for locator abutment

Type	Short	Long
		
	TWLD**SK**	TWLD**LK**

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

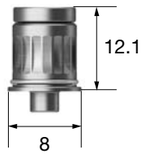
ORC

Prosthetic KIT Surgical Instruments

Machine Driver Connector

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

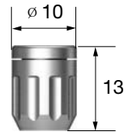
OMDC



Driver Handle

- Use it by connecting with torque driver

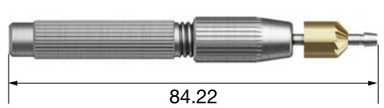
TIDHC



Finishing Reamer Set

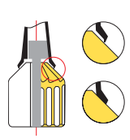
- After plastic coping casting, It is a device used to remove lip on the inner surface of casting

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

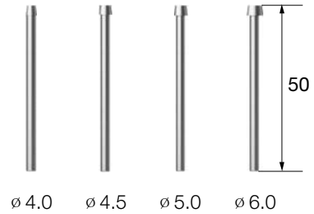
- After plastic coping casting, it is a cutting edge that removes the lip on the inner surface of casting

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)

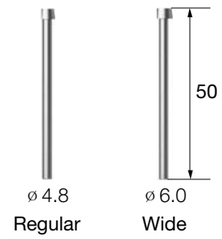
D	Ø4.0	Ø4.5	Ø5.0	Ø6.0
	GSRFRT400	GSRFRT450	GSRFRT500	GSRFRT600



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



CAS KIT (HCRSNK)

For TSII / III SSII / III USII / III

Top panel components

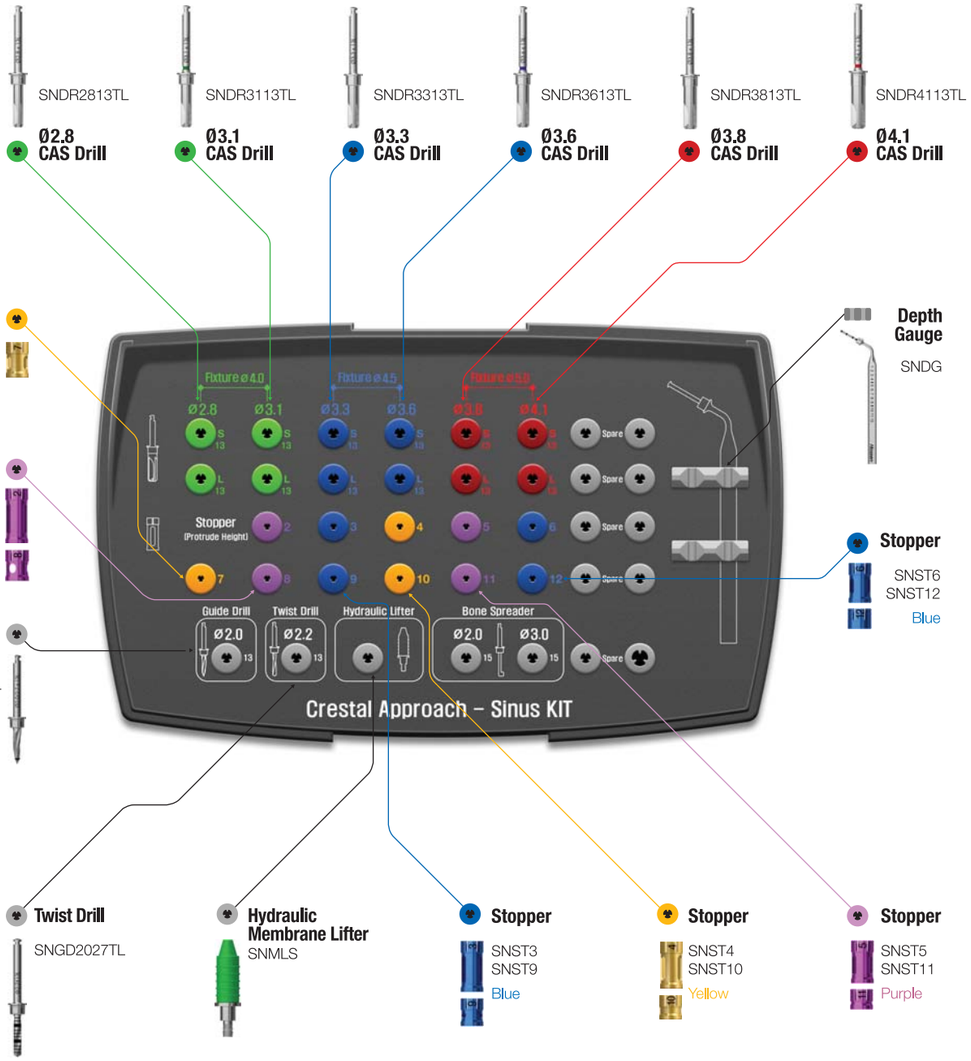
Hydraulic Membrane Lifter Tube
SNMT

Lower panel components

Bone Carrier Head
SNBCH30

Bone Carrier
SNBCS35

Bone Condenser
SNBC1114



CAS Full KIT (HCRSNKP)

For TSII / III SSII / III USII / III

Top panel components

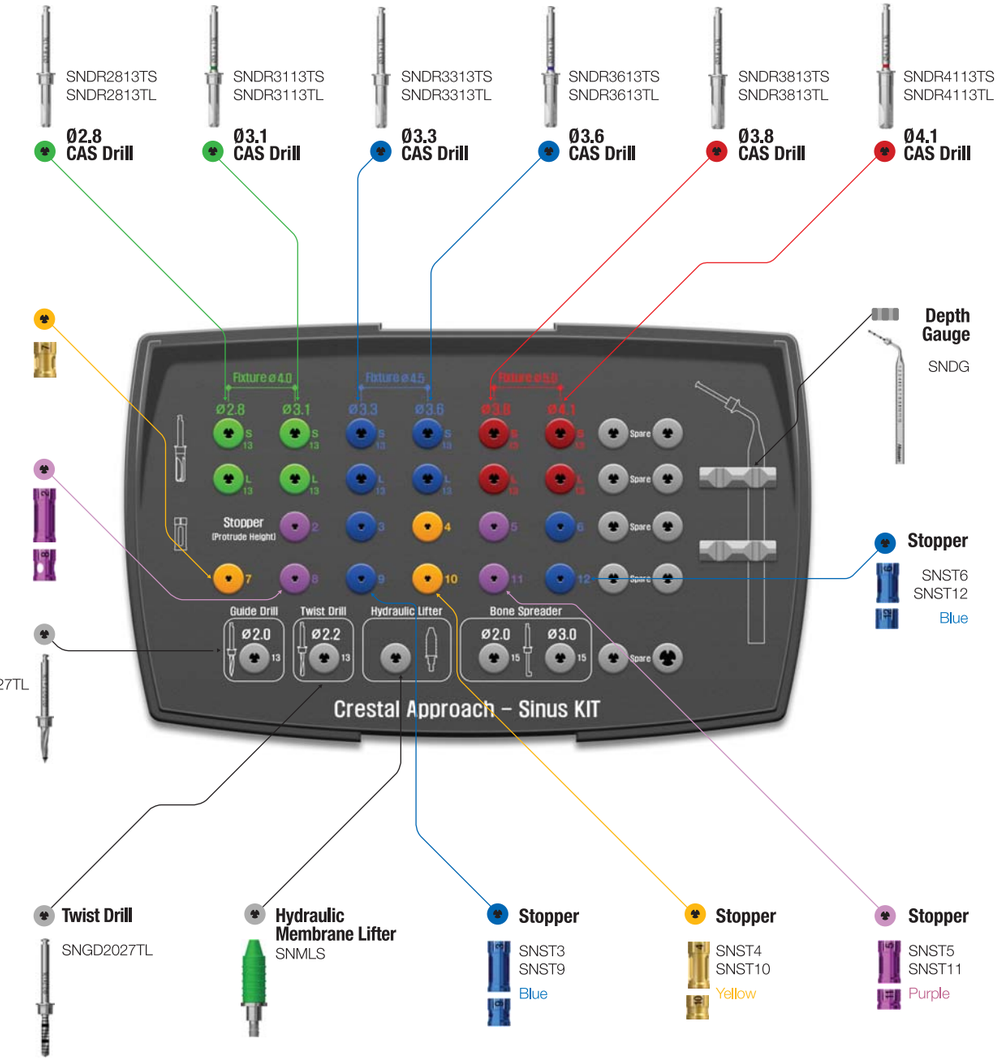
Hydraulic Membrane Lifter Tube
SNMT

Lower panel components

Bone Carrier Head
SNBCH30

Bone Carrier
SNBCS35

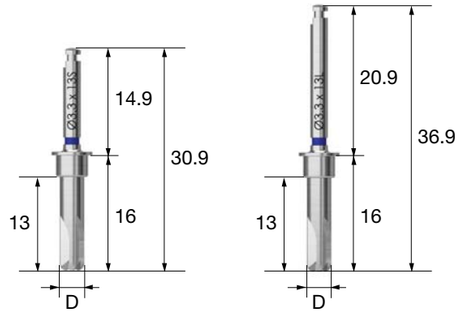
Bone Condenser
SNBC1114



CAS KIT Surgical Instruments

CAS Drill

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

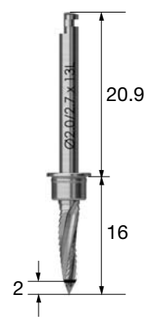


L \ D	Ø2.8	Ø3.1	Ø3.3	Ø3.6	Ø3.8	Ø4.1
Short	SNDR2813TS	SNDR3113TS	SNDR3313TS	SNDR3613TS	SNDR3813TS	SNDR4113TS
Long	SNDR2813TL	SNDR3113TL	SNDR3313TL	SNDR3613TL	SNDR3813TL	SNDR4113TL

Guide Drill

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

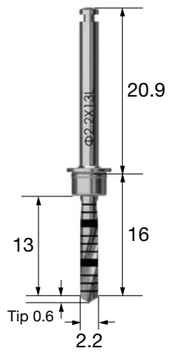
D	Ø2.0 / 2.7
	SNGD2027TL



Ø2.2 Twist Drill

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

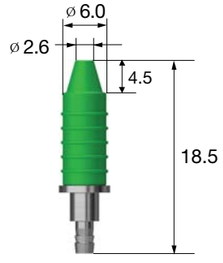
D	Ø2.2
	SNTD2213TL



Hydraulic Membrane Lifter Set

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

D	Ø2.6 / 6.0
	SNMLS



Stopper

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

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

Bone Carrier

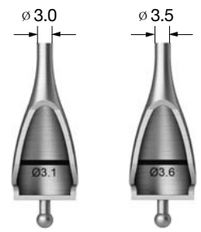
- Handle for the bone carrier head
- Connect the bone carrier head and tighten at the opposite end
- Connects both heads (SNBCH30 or SNBCH35)

SNBCS35

Bone Carrier Head

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

D	Ø3.1	Ø3.6
	SNBCH30	SNBCH35



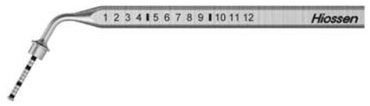
Bone Condenser

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

D	Ø1.1 / 1.4
	SNBC1114

Depth Gauge

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



SNDG

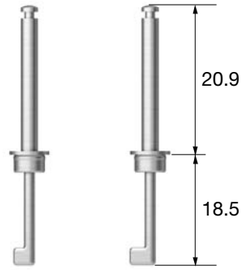
Hydraulic Membrane Lifter Tube

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

SNMT

Bone Spreader

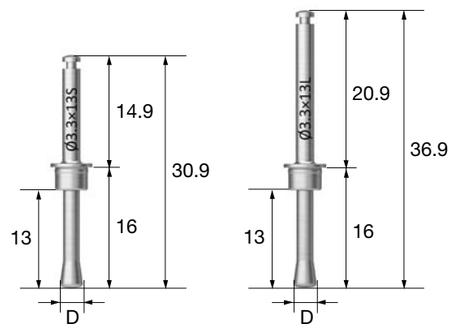
- A tool that spreads a filled bone by using engine
- Used with stopper
- Recommended speed : 30rpm or less (low speed mode)



D	Ø2.0	Ø3.0
	SNBS2015T	SNBS3015T

Membrane Lifter

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



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

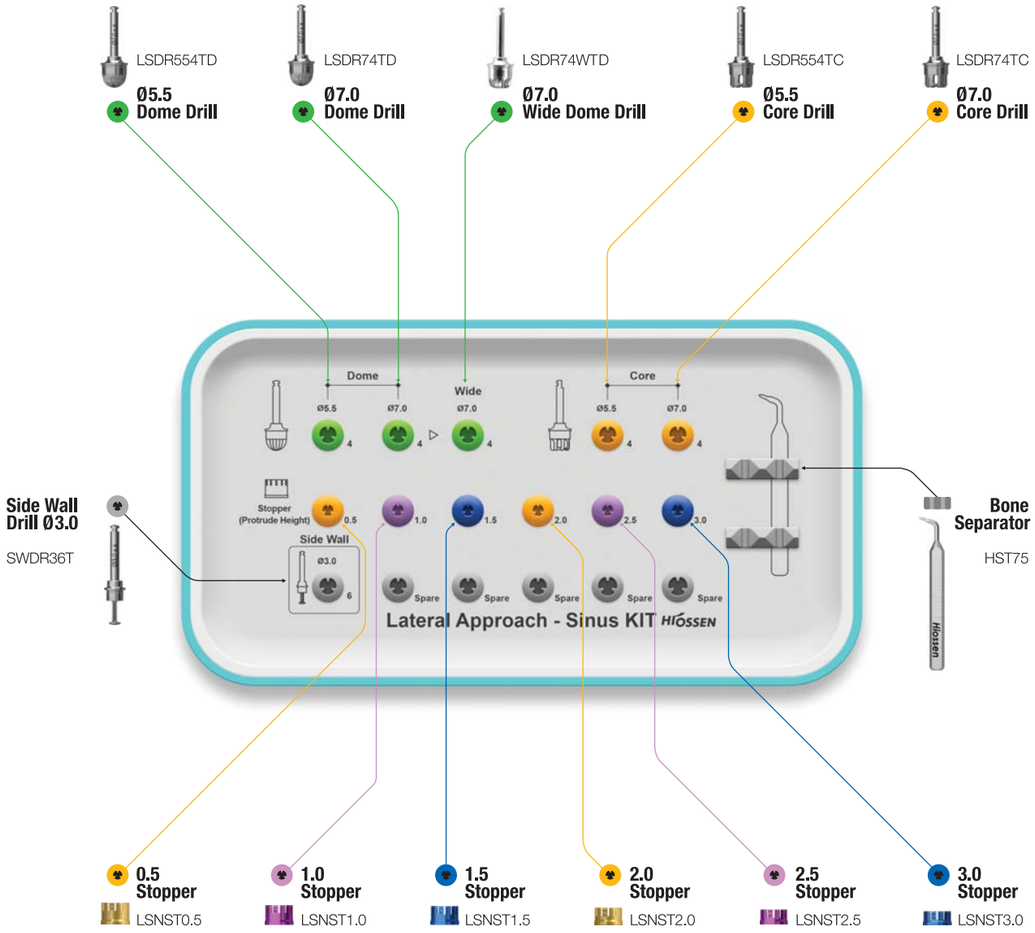
Y-Connector

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

SNYCT

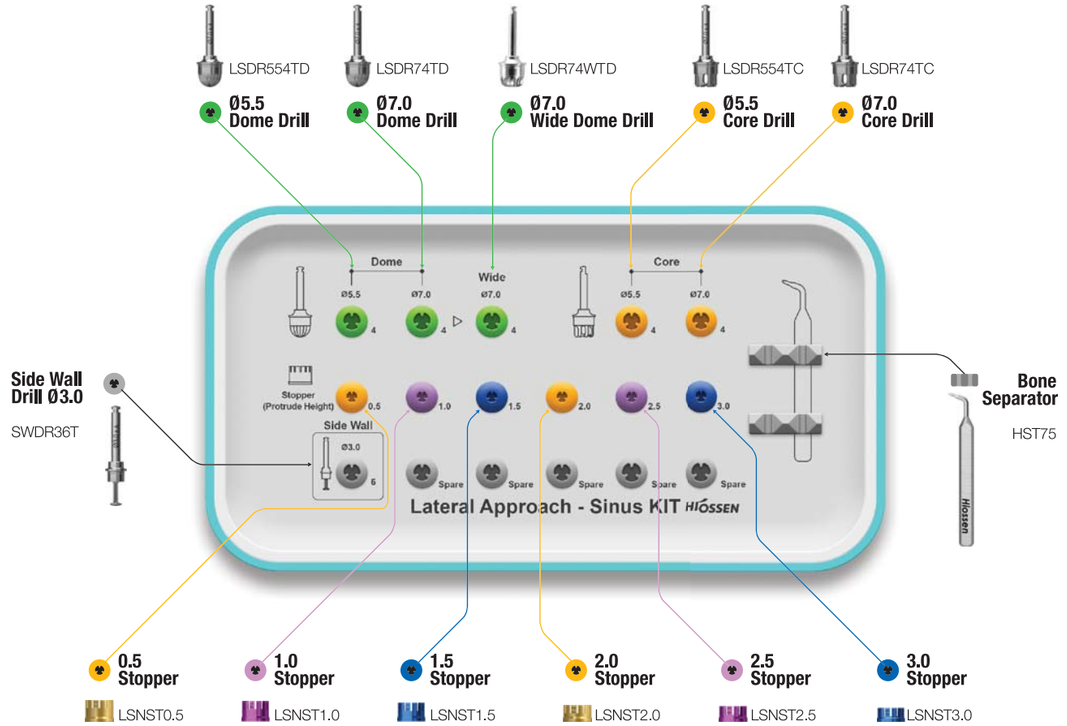
LAS KIT (HLRSNK)

- 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

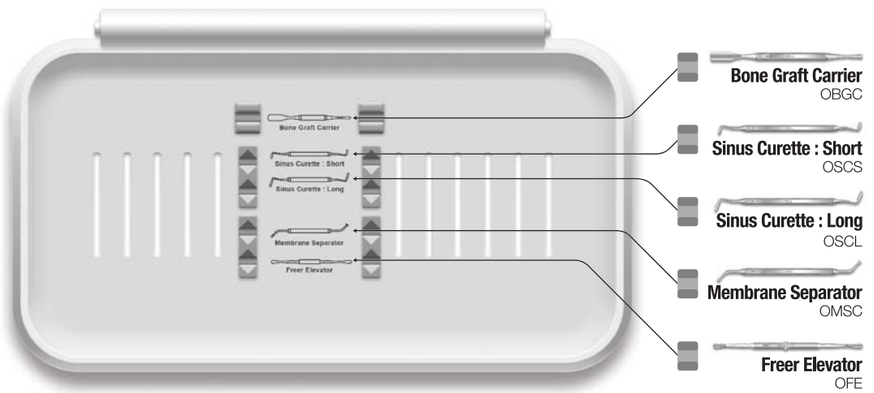


LAS Full KIT (HLRSNKP)

- Incorporates 6 additional sinus lifting tools to LAS KIT



LAS KIT Plus Lower Plate

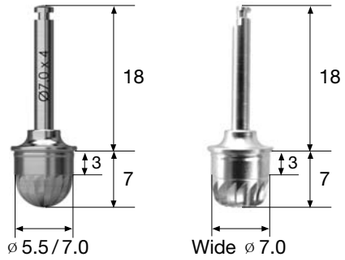


Dome Drill

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

※ Excessive drilling may cause damage to the membrane

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



Core Drill

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

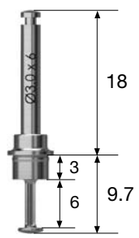
※ Excessive drilling may cause damage to the membrane

L \ D	Ø5.5	Ø7.0
25	LSDR554TC	LSDR74TC

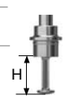
Side Wall Drill

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

SWDR36T



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



※ Stopper safely controls the penetration depth

Bone Separator

- Removes the bone lid inside the core drill

HST75

Stopper

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

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

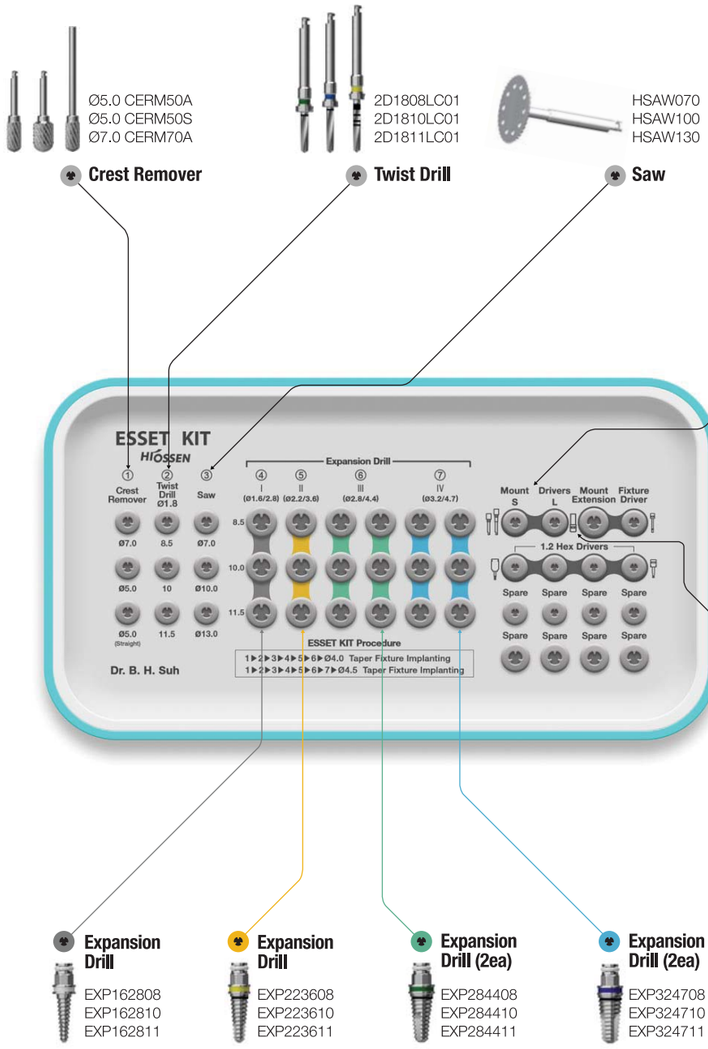
ESSET KIT (HESEK)

For TSII / III SSII / III USII / III

Lower panel components

Torque Wrench
TQWCB

Depth Gauge
ODG

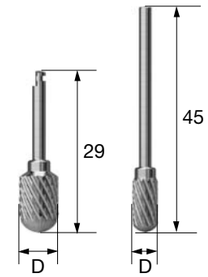


ESSET KIT Surgical Instruments

Crest Remover

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

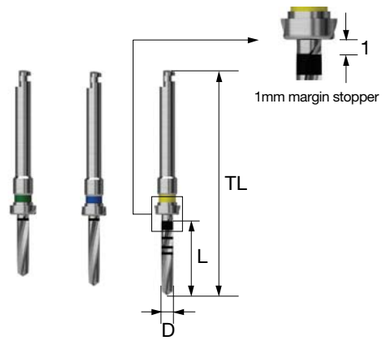
L \ D	Ø5.0	Ø7.0
29	CERM50A	CERM70A
45	CERM50S	-



Twist Drill

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

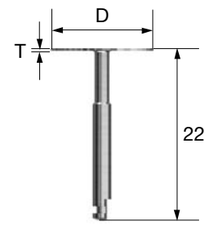
L	TL	D	Ø1.8
8.5	33		2D1808LC01
10	34.5		2D1810LC01
11	36		2D1811LC01



Saw

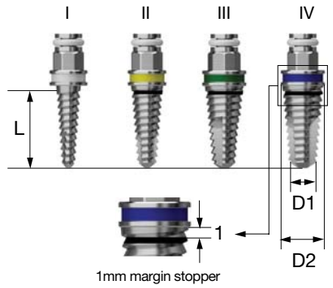
- Saws narrow aveolar ridge
- Saw vertically first, then saw from the mesial to the distal
- Recommended speed : 1,200~1,500rpm
- Recommended number of use : 10 times
- T = Thickness

T	Ø7.0	Ø10.0	Ø13.0
0.3	RA231DC070	RA231DC100	RA231DC130



Expansion Drill

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



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

Mount Extension

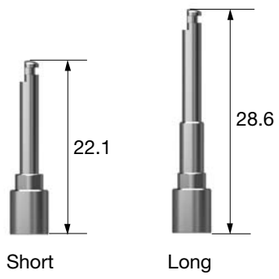
- Connect with SET drills for manual torque

ASMEL

EXP Mount Driver

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

L	
Short (L)	AESMDS
Long (L)	AESMDL



Saw Protector

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

※ **Use an appropriate saw**

※ Cover and body need to be ordered separately

Contra angle type

Straight type

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

Torque Wrench

- Use with mount extension and SET drills

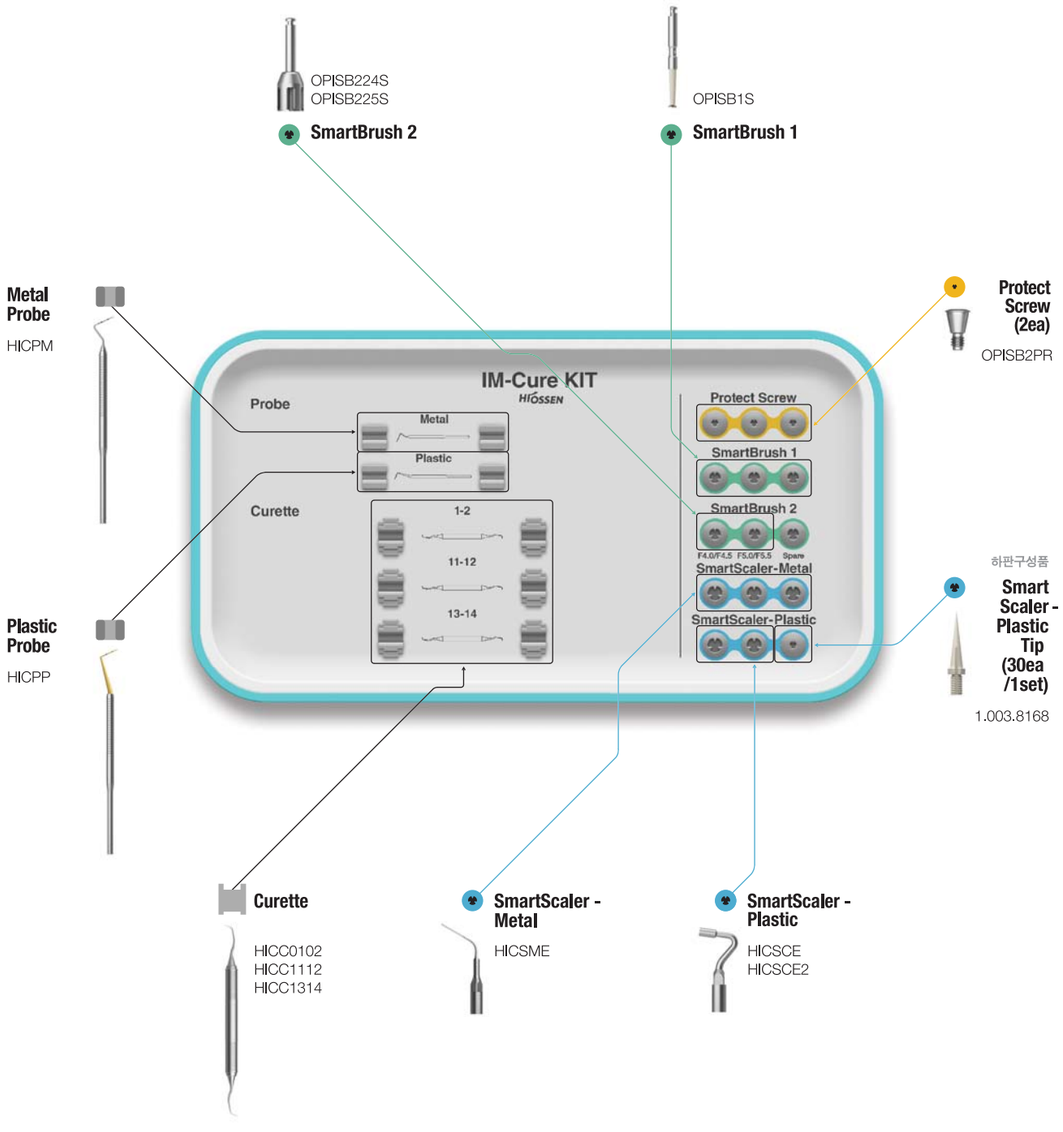
TQWCB

Depth Gauge

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

ODG

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

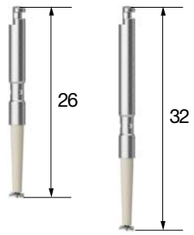
Type	01-02	11-12	13-14
	HICC0102	HICC1112	HICC1314

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
	HICSME	HICSMK	HICSMS

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°	HICSCE	HICSCK	HICSCS
100°	HICSCE2	HICSCK2	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

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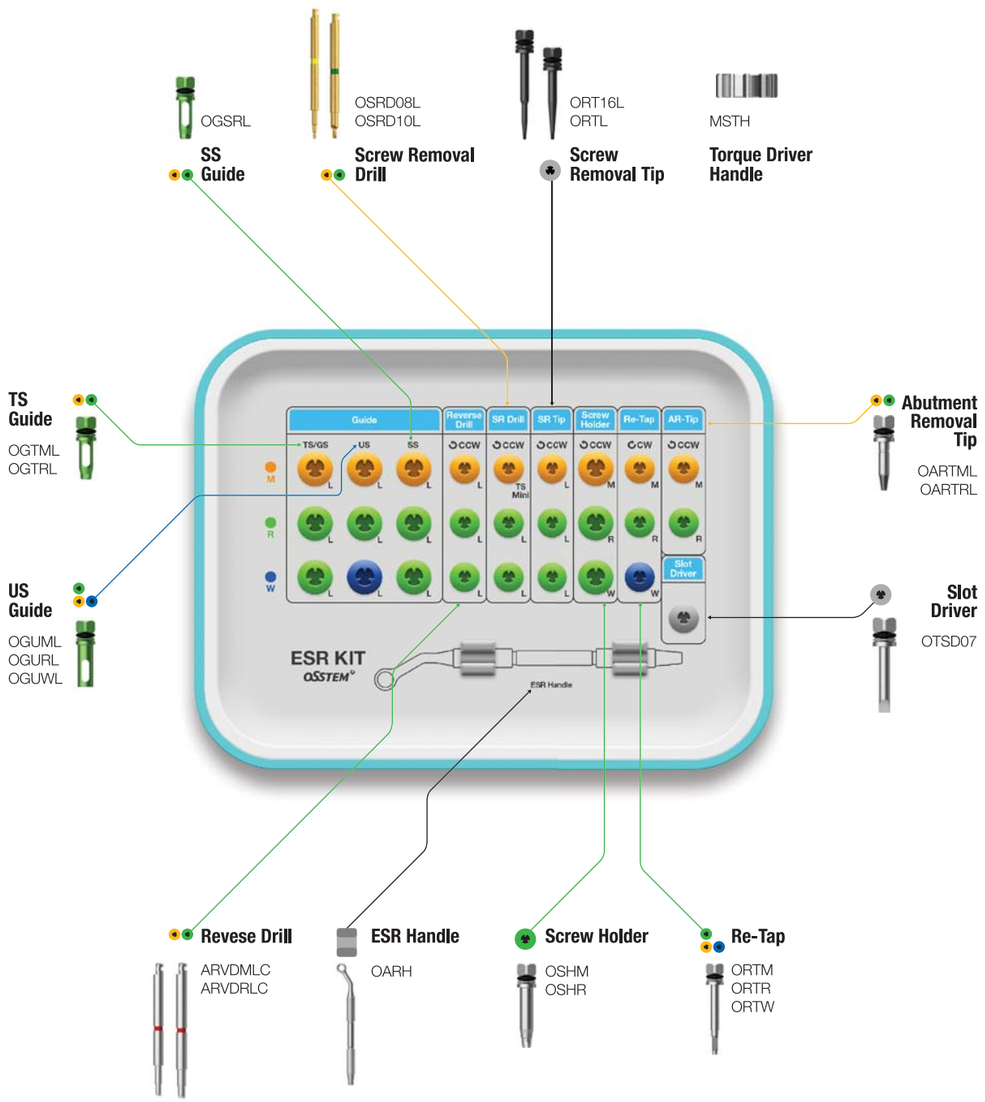
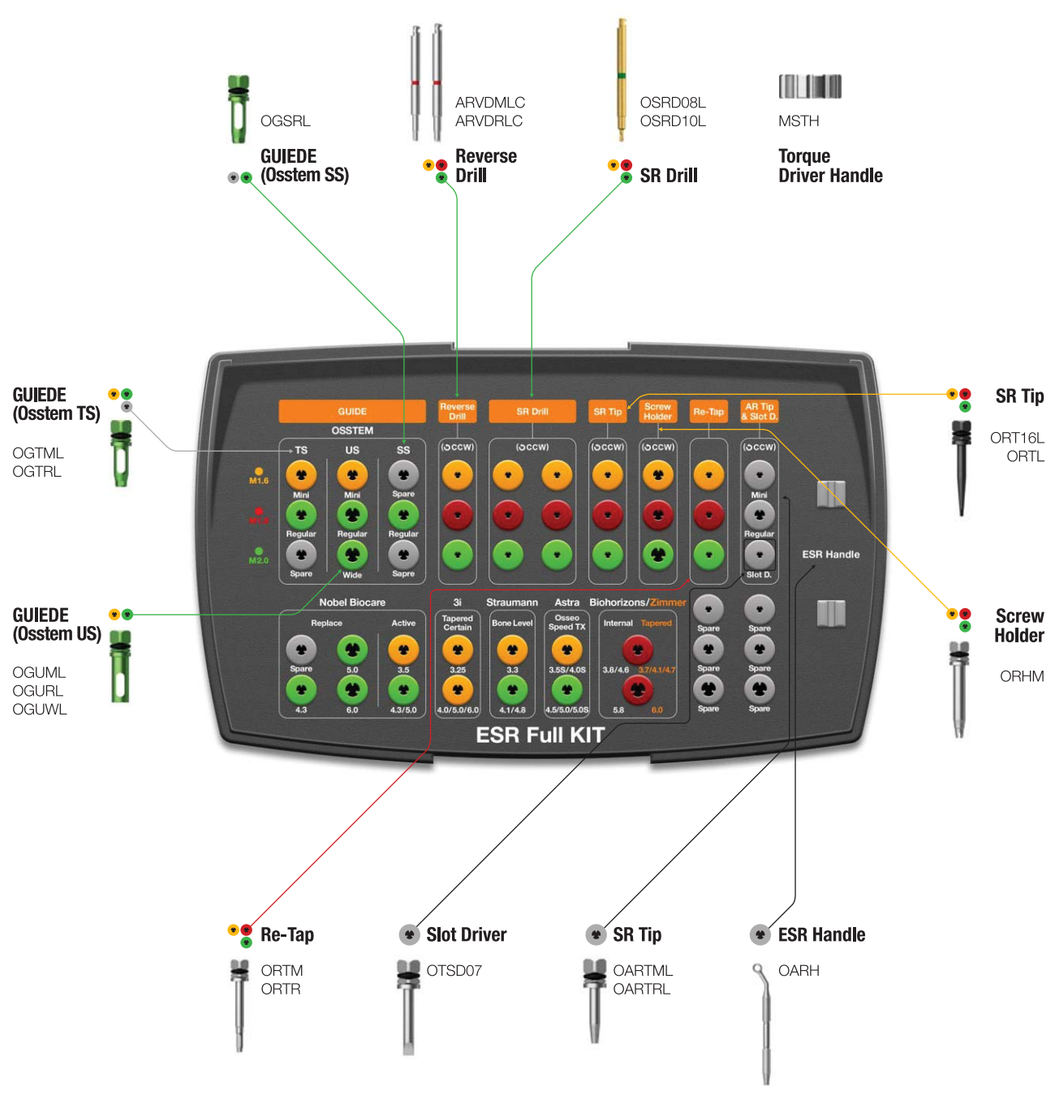
ESR KIT Easy Screw Removal KIT (OESRK)



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

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

Astra

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

ESR Full KIT Surgical Instruments

3i

F \ Type	Full Osseotite Tapered Certain Short	Full Osseotite Tapered Certain Long
3.25	OGIF01S	OGIF01L
4.0	OGIF02S	OGIF02L
5.0	OGIF02S	OGIF02L
6.0	OGIF02S	OGIF02L

F \ Type	Full Osseotite Tapered Short	Full Osseotite Tapered Long
Ø4.0	OGURS	OGURL
Ø5.0	OGURS	OGURL
Ø6.0	OGURS	OGURL

Zimmer

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

Biohorizons

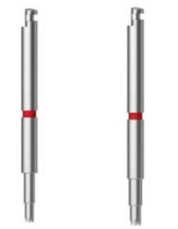
F \ Type	Internal (Tapered Bone Level) Short	Internal (Tapered Bone Level) Long
Yellow	OGZB01S	OGZB01L
Green	OGZB01S	OGZB01L
Blue	OGZB02S	OGZB02L

F \ Type	External Short	External Long
Ø3.5	OGUMS	OGUML
Ø4.0	OGURS	OGURL
Ø5.0	OGUBS	OGUBL
Ø6.0	OGUBS	OGUBL

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 : counterclose wise / 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

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

Torque Driver Handle

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

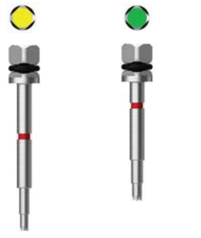
MSTH

ESR Full KIT Surgical Instruments

Reverse Driver

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

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



Mini Regular/Wide

Screw Removal Tip (SR Tip)

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

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

Screw Holder

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

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

Re-tap

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

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

ESR Handle

- Tools to fix guide to fixture

OARH

Abutment Removal Tip (AR Tip)

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

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

Mini Regular

Slot Driver

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

OTSD07

Transfer Abutment Separate Tool

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

Driver Body

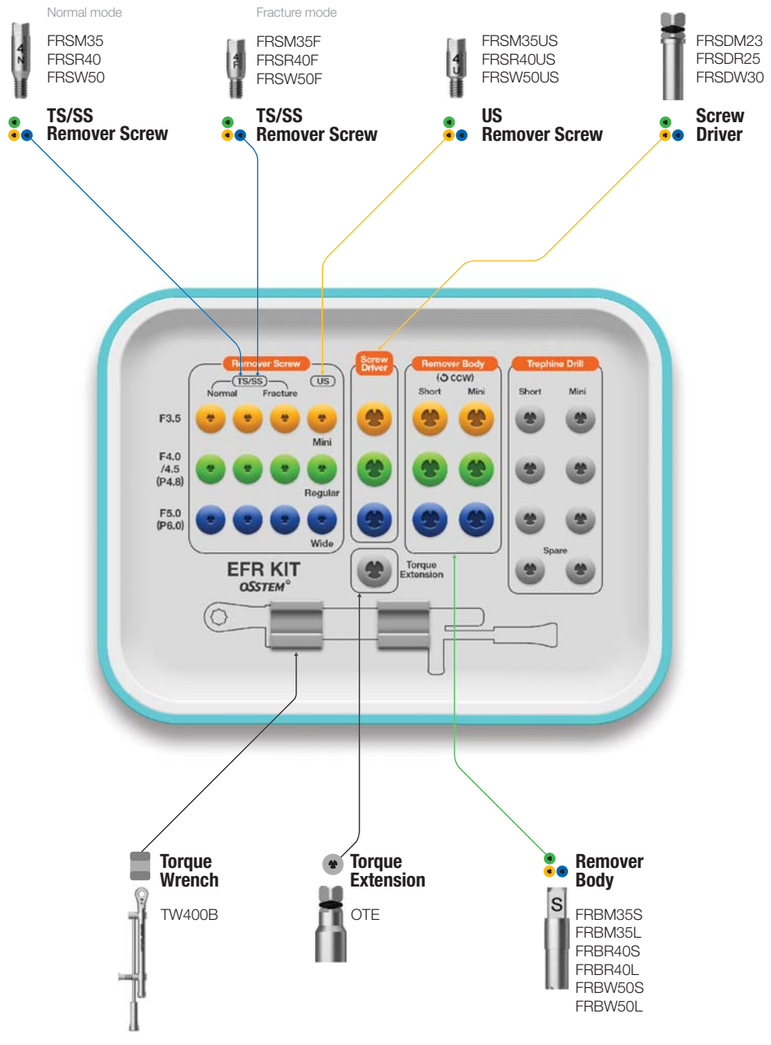
Driver	Body	Set
TASD	TASB	TAST

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
	FRSRS41	FRSRS41F		FRSRI40	FRSRI40F		FRSWZ47	FRSWB46F
	FRSWS48	FRSWS48F		FRSWI50	FRSWI50F		FRSWZ60	FRSWB46F
Zimmer	**Tapered**		Astra	**Osseo Speed TX**		**Remover Body**		
	Normal	Fracture		Normal	Fracture			
	FRSMZ37	FRSMZ37F		FRSMNA35	FRSMNA35F	FRBW57S		
	FRSRZ41	FRSRZ41F		FRSRA40	FRSRA40F	FRBW57L		
	FRSWZ47	FRSWZ47F		FRSR40	FRSR40F	FRBUW60S		
	FRSWZ60	FRSWZ47F		FRSW50	FRSW50F	FRBUW60L		

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	FRSRI40	FRSWI50
	Fracture	FRSMI325F	FRSRI40F	FRSWI50F

Zimmer

T	Mode	Mini Ø3.7	Regular Ø4.1	Wide Ø4.7	Ultra-wide Ø6.0
Tapered	Normal	FRSMZ37	FRSRZ41	FRSWZ47	FRSWZ60
	Fracture	FRSMZ37F	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

Remover Body

- 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

Torque Extension

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

OTE

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

Fixture Wrench

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

FRDFE

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)

Periosteal Elevator : 24G

- Mucosal periosteal elevation after gingival tissue incision
- W : 4.2/4.0mm

Minesota Retractor

- Pull mouth and cheek, etc. to secure visibility

Extension Hose Adapter

- Chair Suction Connection Adapter

Periosteal Elevator : Selden

- Fixed by retracting for gingival tissue flap
- W : 10/13mm

Needle Holder : Crile-Wood, TC

- Straight
- Tungsten carbide on beak
- L : 150mm (±5)

Periodontal Chisel

- Bone removal and forming
- W : 5.0mm

Tissue Forcep : ADSON

- Used to hold soft tissue
- There is no bump in the beak
- L : 120mm (±5)

Extension Hose

- Extension hose to connect the chair suction
- Autoclave available
- Transparent silicone material

Dr.Cho's Instrument Pouch

- Used for instrument storage and sterilization
- L : 550 X 400mm

Titanium Suction Tip

- D(Inner diameter) : 3.0mm

Osstem Basic Instrument KIT (OBKIT)

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

Periosteal Elevator : 24G

- Mucosal periosteal elevation after gingival tissue incision
- W : 4.2/4.0mm

Scalpel Handle : Flat Type

Pouch

- Used for instrument storage and sterilization
- L : 470 X 400mm

Needle Holder

- Mayo-Hegar
- Tungsten carbide on beak
- L : 160mm (±5)

Mirror

Titanium Suction Tip

- D(Inner diameter) : 3.0mm

Chisel

- Bone removal and forming
- Ochsenbein & Fedi (curved)
- W : 5.0mm

Hemostats

- Mosquito (curved)
- L : 130mm (±5)

Tissue Forcep ADSON

- There is a bump in the beak
- L : 120mm (±5)

Osstem Basic Instrument KIT (OBKIT)

Periosteal Elevator : Selden

- Fixed by retracting for gingival tissue flap
- W : 10/13mm

Caliper

- Castroviejo

Scissor : LaGrange

- Compound (curved)
- L : 115mm (±5)

Bone Well

Minesota Retractor

Surgical Curettes : Gracey

Surgical Curettes : Surgical Curette, CM11

Towel Clamp

- Towel Clamp, Backhaus
- L :135mm (±5)

Periosteal Elevator : MOLT9

- Mucosal periosteal elevation after gingival tissue incision
- W : 8.2/4.2mm

Tweezer (Wide)

- L : 155mm

Scalpel Handle : Straight Type

Bone Rongeurs

- Friedman
- L : 140mm (±5)

Scissor : Tissue Scissor

- Straight
- L : 115mm (±5)

Surgical Curettes : Surgical Curette, CM10

Mallet

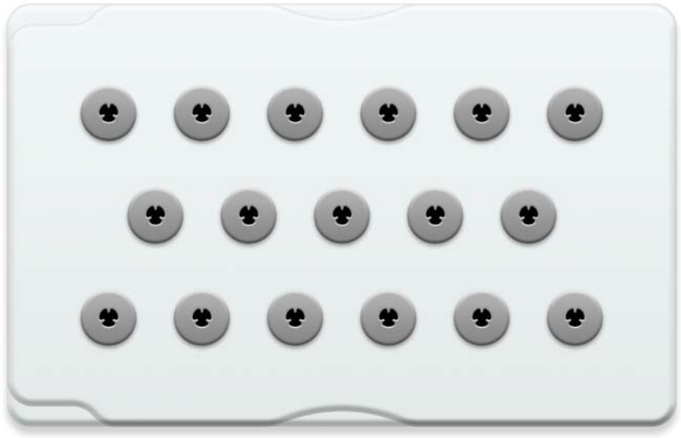
- Autoclave available

Periosteal elevator : Prichard

- W : 11/4.9mm

Custom KIT (OCTK)

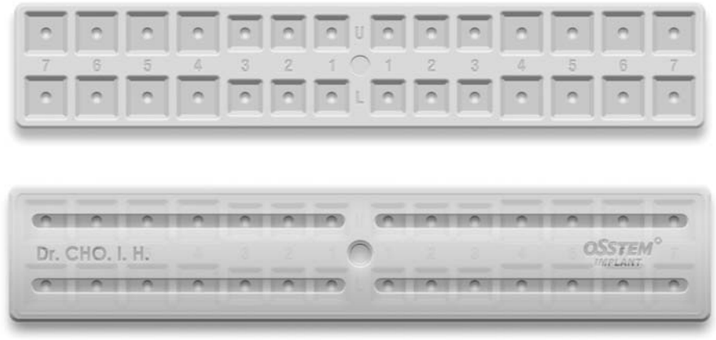
- Sterilizable case for storing extra tools
- Includes three types of rubber (large, medium, and small) holders
- Sterilization parameters (132˚C, 15min)



Healing Case (OHAC)

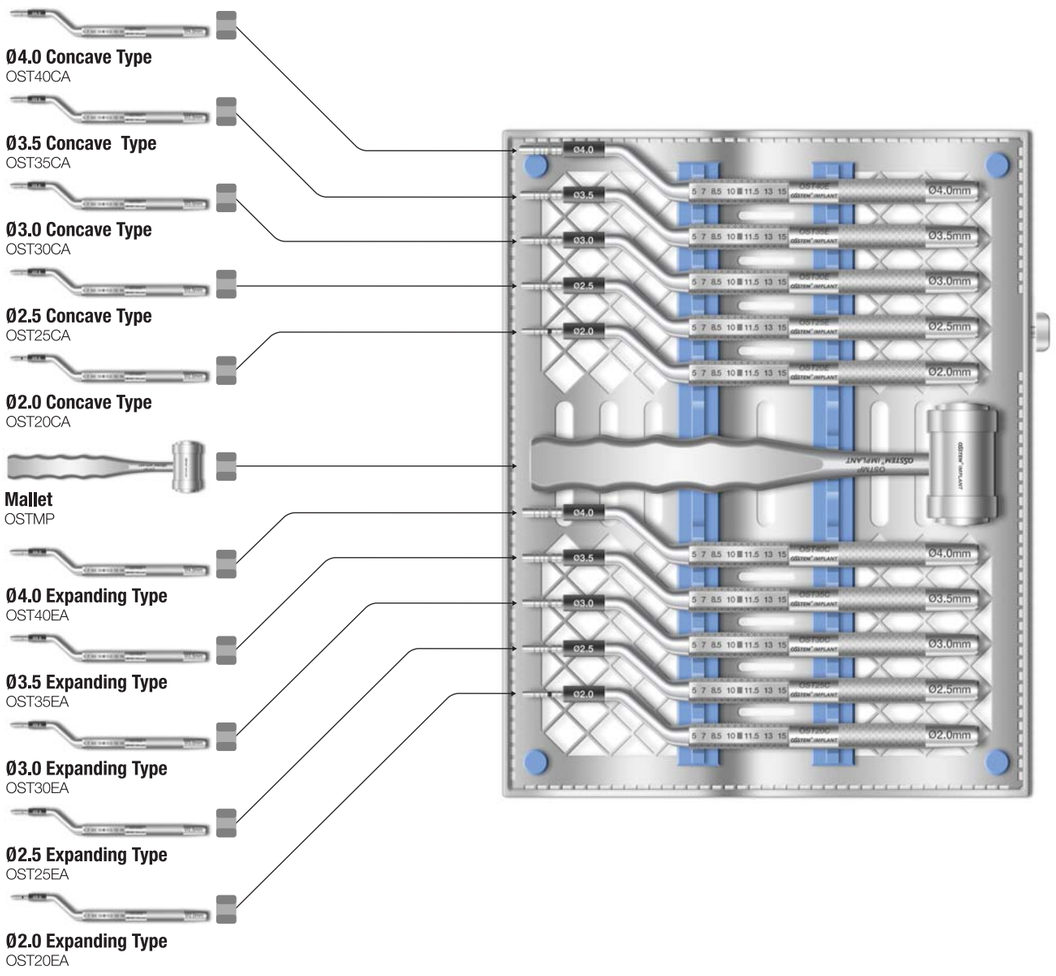
- Case for temporary storage and cleaning of healing abutment during prosthodontic process
- Additional restorable upper prosthesis : transfer / temporary / angled / cover screw / pick-up & transfer impression coping / OB anchor / temporary crown (only healing abutment can be combined with top plate)
- 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



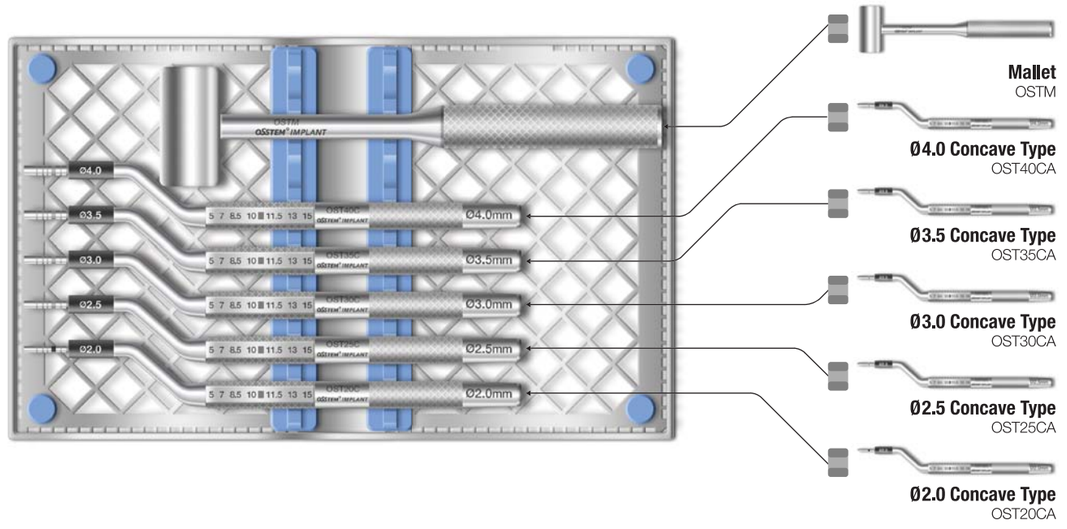
Osteo KIT (OSTK)

- Crestal approach sinus lift surgery
- Osteotome is designed to compact bone while pentrating 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



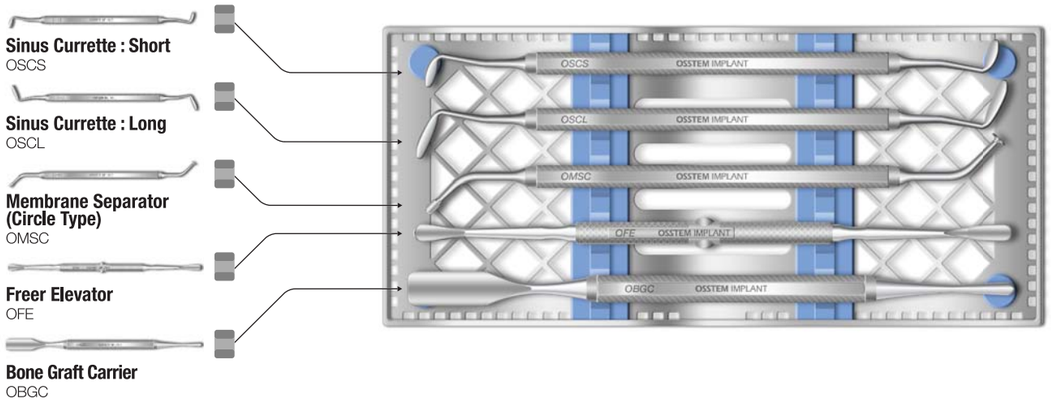
Osteotome Stopper

- Stopper for adjusting the depth

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

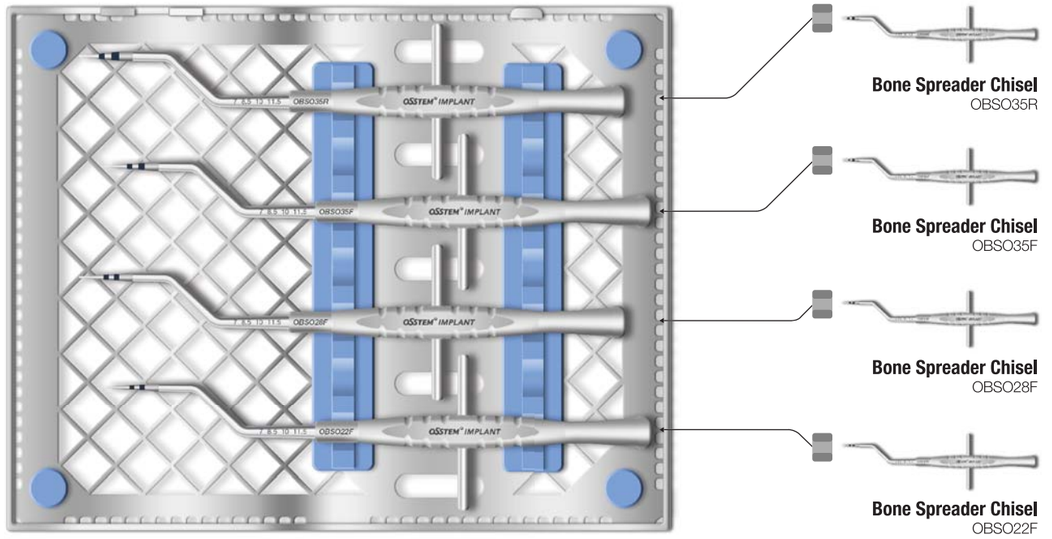
Sinus KIT (ASLK)

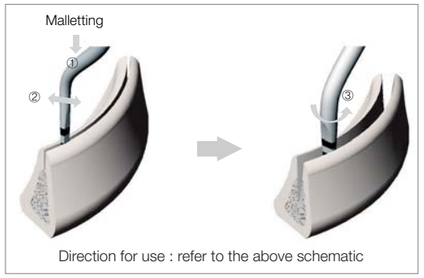
- Tools for lateral approach sinus floor elevation surgery
- Components (5 types)
  - Freer elevator : OFE
  - Bone graft carrier : OBGC
  - Membrane separator (circle type) : OMSC
  - Sinus currette-short : OSCS
  - Sinus currette-long : OSCL



Bone Spreader KIT (OBSOK)

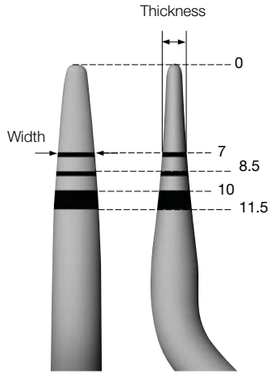
- Expands narrow alveolar ridge
- Offset type
- Components (4 types)
  - OBSO22F, OBSO28F, OBSO35F, OBSO35R





Direction for use : refer to the above schematic

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



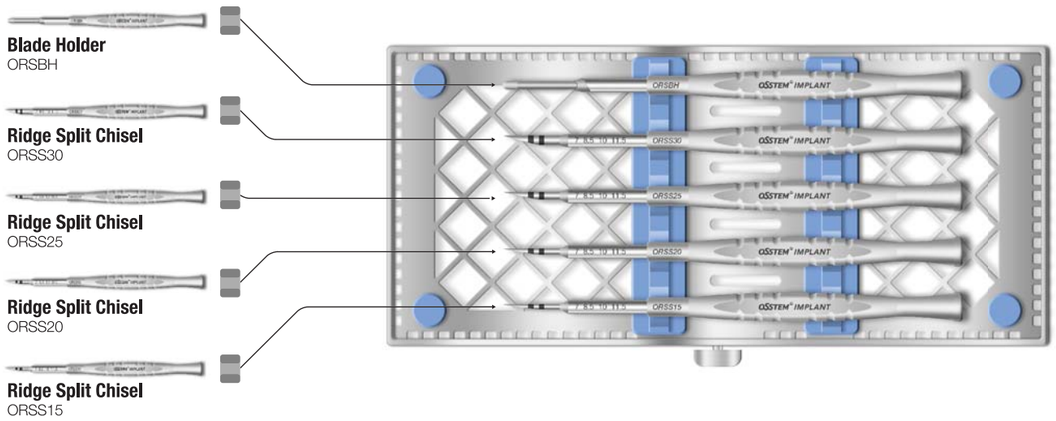
(Unit : mm)

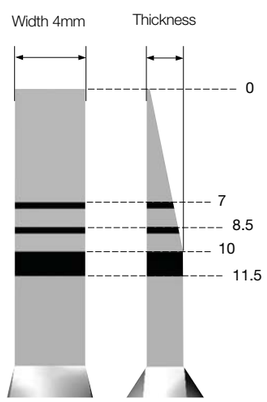
Code \ Spec.		Tip length 7	8.5	10	11.5
OBSO22F	Thickness	1.15	1.3	1.45	1.6
	Width	2.1	2.2	2.2	2.2
OBSO28F	Thickness	1.15	1.3	1.45	1.6
	Width	2.65	2.8	2.8	2.8
OBSO35F	Thickness	1.3	1.45	1.6	1.8
	Width	3.3	3.5	3.5	3.5
OBSO35R (round type)	Thickness	1.85	2.1	2.3	2.55
	Width	3.3	3.5	3.5	3.5

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





Directions for use : refer to the above schematic

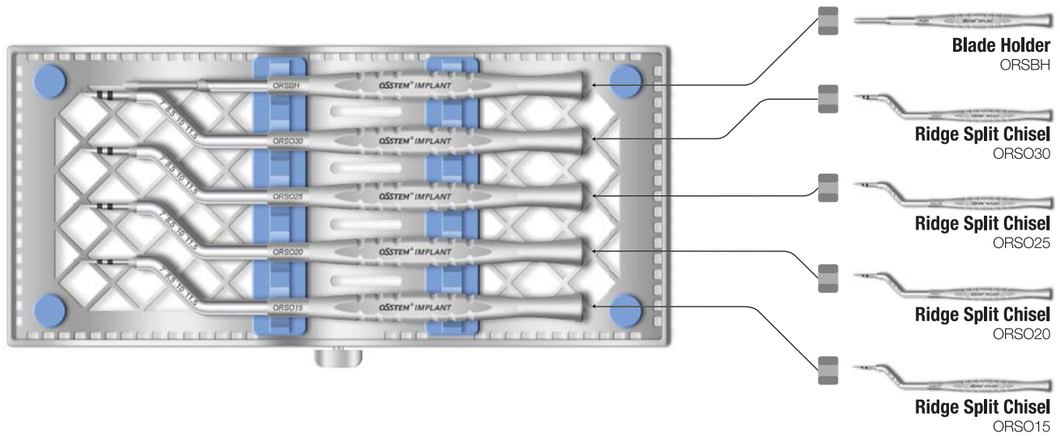
(Unit : mm)

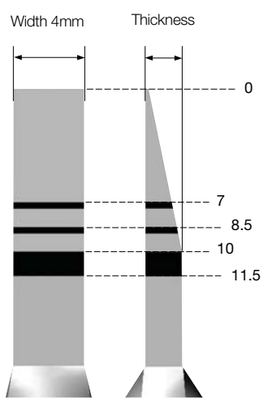
Code \ Spec. / Tip length		7	8.5	10	11.5
ORSS15	Thickness	1.1	1.27	1.5	1.5
	Width	4	4	4	4
ORSS20	Thickness	1.45	1.7	2.0	2.0
	Width	4	4	4	4
ORSS25	Thickness	1.8	2.15	2.5	2.5
	Width	4	4	4	4
ORSS30	Thickness	2.15	2.5	3.0	3.0
	Width	4	4	4	4

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





Directions for use : refer to the above schematic

(Unit : mm)

Code \ Spec. / Tip length		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℃). Keep away from direct sunlight.

General precautions

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

Precautions

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

Procedural precautions

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

Warning

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

Indications for use

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

Side effects

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

Contraindications

Contraindications include the following, but are not limited to:

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

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

EC REP

DEUTSCHE OSSTEM GmbH.
Mergenthalerallee 25
65760 Eschborn, Germany
+49-(0)6196-777-550

Storage condition
Dry place at room temperature

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

CE 2460

PCT

STERILE R — Sterilized using irradiation

Use by

Manufacture

Do not reuse

Date of manufacture

Keep away from sunlight

REF — Catalogue number

NON STERILE — Non-Sterile

Keep dry

LOT — Batch code

Do not resterilize

Caution, Consult accompanying documents

OSSTEM IMPLANT

OSSTEM IMPLANT