OSSTEM IMPLANT

2020 - 21

KIT PRODUCT CATALOG

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OSSTEM IMPLANT

Osstem Implant
2020-21 Comprehensive Catalog

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KIT PRODUCT CATALOG

CEO' S Message

"Cutting edge technology and superior quality"

Making products that dentists are able to
trust and are satisfied with:
This is our mission at OSSTEM IMPLANT

We are forever grateful to all of our customers for their unwavering support to OSSTEM IMPLANT

Osstem, South Korea's first implant manufacturer, has achieved steady growth thanks to the support and love from its customers. Osstem has put a lot of effort into continuous investment in R&D and quality innovation in order to provide products that customers are looking for and satisfied with. Based on this, it has become the No. 1 implant company in Asia Pacific region and No. 4 in the world. Moreover, it was ranked No. 1 for global fixture sales from 2017 to 2019 for 3 consecutive years and became the global provider of the implants most used by the customers all around the world.

In this 2020-21 product catalog, you can see a variety of products at a glance, including not only the implant products of Osstem's differentiated technology but also the digital dentistry products such as Oneguide the implant surgical guide, scanners, milling machines, CAD/CAM, etc.
We have invested numerous efforts and time in the configuration and design of this catalog so that customers do not have any inconvenience of finding and ordering the products they need. The fixtures and abutments are listed to make it easy to understand the diameter, length, and functional behavior, in sequence that customers make a judgement for purchase.

The product type and code are displayed to help with accurate ordering. We have added the product thumbnail pages to view the components at a glance and detailed information pages to describe the functions of each component for enhanced user understanding. For GBR products, shape, size, and capacity of each product are described in detail for easy ordering as well. In addition, the release date and time are indicated for all products so that customers can easily distinguish new products from existing products for purchase.
In terms of design, we applied high-quality product images to aid ordering without looking at the actual product, and improved user convenience by applying representative colors to facilitate classification by product category.

We hope that this 2020-21 product catalog will help you effectively find and purchase all the products you need for your dental practice.
Osstem Implant will continue to strive to create greater customer value as a partner to help dentists provide better care. Thank you.

CEO of OSSTEM IMPLANT
Tae-Kwan Eom

Worldwide & History

EMEA

GERMANY, RUSSIA, UKRAINE, FRANCE, HUNGARY, SWITZERLAND, NORWAY, FINLAND, UK, POLAND, ROMANIA, CZECH, SLOVAKIA, SERVIA, PORTUGAL, SPAIN, ITALY, CROATIA, GREECE, LATVIA, ESTONIA, LEBANON, TUNISI, MACEDONIA, SLOVENIA, KOSOVO, BULGARIA, GEORGIA, EGYPT, SOUTH AFRICA, ALBANIA, TAJIKISTAN

ASIA / OCEANIA

KOREA, JAPAN, CHINA, CHINESE TAIPEI, VIETNAM, BANGLADESH, HONG KONG, CHINA, MONGOLIA, MALAYSIA, SINGAPORE, INDIA, PHILIPPINES, THAILAND, INDONESIA, KAZAKHSTAN, UZBEKISTAN, AUSTRALIA, NEW ZEALAND, TURKEY, PAKISTAN, KUWAIT, U.A.E, SAUDI, IRAN, CAMBODIA, PAPUA NEW GUINEA, MYANMAR, SRI LANKA, OMAN, JORDAN, PALESTINE

N/S.AMERICA

CANADA, USA, MEXICO, CHILE, COSTA RICA, PERU, BRAZIL

1997
- 01 Established Osstem (D&D System)
- 12 Launched "Doobunhae" (health insurance claiming software)

2000
- 06 Developed and launched "Hanaro" (total dental clinic management software)
- 12 Acquired Sumo Comprehensive Dental Materials (South Korea's fist implant manufacturer)

2001
- 01 Obtained CE-0434 certification
- 03 Established AIC Training Center

2002
- 01 Established Osstem Implant Research Center
- 08 Obtained US FDA certification

2003
- 07 Established the Information System Research Institute

2006
- 03 Changed company name to Osstem Implant Co., Ltd.
- 09 Established a subsidiary in the U.S. (HIOSSEN), and set up the manufacturing facility
- 12 Completed the first-phase establishment of overseas subsidiaries (12 countries)

2007
- 02 Listed on KOSDAQ and began trading
- 11 Won the "10 Million Dollar Export Tower" on Trade Day

2008
- 01 Established Osstem Bone Science Research Institute
- 07 Won the Grand Prize of the 2008 Korea Health Industry Awards by the Ministry of Health, Welfare and Family Affairs

2010
- 03 Launched TSIII SA implant
- 06 Launched TSIII HA implant

2011
- 06 Osstem Implant Research Institute selected as an Advanced Technology Center (ATC) by the Ministry of Trade, Industry and Energy
- 07 Selected as 2011 World Champ company by KOTRA
- 12 Selected as Current World-Class Product by the Ministry of Knowledge Economy

2012
- 06 Launched TSIII CA implant
- 07 Established the Medical Equipment Research Institute

2013
- 01 Launched xenograft "A-Oss"
- 09 Launched "K3 unit chair"

2014
- 05 Launched impression material "Hysil"
- 08 Launched whitening material "BeauTis"

2015
- 03 Established Osstem Pharma Co., Ltd.
- 12 Awarded the "50 Million Dollar Export Tower" on Trade Day

2016
- 01 Established VUSSEN Co., Ltd.
- 02 Released TSIII BA
- 03 Acquired Cardiotec Co., Ltd.
- 04 Launched the dental clinic interior design business
- 06 Released TSIII SOI
- 08 Acquired Hubit Co., Ltd.
- 11 Launched "OneGuide"

2017
- 12 Won the Presidential Award at 2017 Government Commendation for Job Creation

2018
- 11 Won the '2018 SW Enterprise Quality Award' by Ministry of Science and Technology
- 12 Won the "100 Million Dollar Export Tower" on Trade Day

2019
- 08 Opened manufacturing corporation in Yancheng, China
- 10 Established a subsidiary in Brazil (23 subsidiaries in 26 countries in operation)
- 12 Awarded the Brand Top, Industrial Service, Presidential Citation, Prime Minister Citation, and KITA Citation on 56th Trade Day

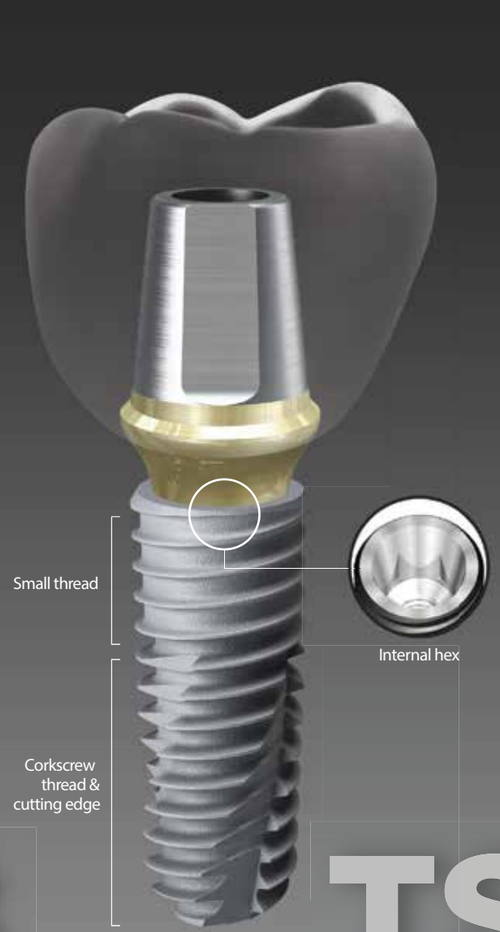
2020
- 01 Launched "OneClick" the electronic chart for dental clinics
- 02 Established "DenAll", the comprehensive dental portal
- 07 Headquarters relocated to Magok, Seoul
- 08 No.1 seller of fixture for 3 consecutive years (2017~2019)

OSSTEM Implant Design feature

KS

Next-generation submerged type implant with an Internal hex 15° tapered connection structure

- Connection - Regular only (2.1hex single platform)
  - Strength intensified due to a narrower and deeper connection
  - Reduced prosthetic errors and inventory burden with no variation of the product (Mini/Regular)
- Abutment holding system applied to enable screw fastening with one hand
- Excellent initial stability in soft bone with smaller threads in the upper section
- Corkscrew thread & cutting edge
  - Superior self-threading effect for easy placement path adjustment
  - Enhanced initial stability in soft bone and consistent placement torque according to the drill diameter
- Available surface types - BA



TS

Submerged type implant with an internal hex 11° tapered connection structure

- Connection - Mini / Regular
- Excellent initial stability in soft bone with smaller threads in the upper section
- Corkscrew thread & cutting edge
  - Superior self-threading effect for easy placement path adjustment
  - Enhanced initial stability in soft bone and consistent placement torque according to the drill diameter
- Various body shape options available to match the patient's bone quality and clinical condition
  - TSII (straight body) : Easy to adjust placement depth
  - TSIII (1.5° tapered body) : Excellent initial stability needed for immediate loading even in soft bone
  - TSIV (6° tapered body) : Specifically designed for use in maxillary sinus and soft bone, providing excellent initial stability
- Available surface types - SA / CA / BA / SOI

SS

Non-submerged type implant with an internal octa 8° tapered connection based on 1st stage surgery

- Connection - Regular / Wide
- Corkscrew thread & cutting edge
  - Superior self-threading effect for easy placement path adjustment
  - Enhanced initial stability in soft bone and consistent placement torque according to the drill diameter
- Various body shape options available to match the patient's bone quality and clinical condition
  - SSII (straight body) : Easy to adjust placement depth
  - SSIII (1.5° tapered body) : Excellent initial stability needed for immediate loading even in soft bone
- Available surface types - SA / CA / BA

US

Submerged type implant with an external hex connection structure

- Connection - Mini / Regular / Wide / Wide PS
- Corkscrew thread & cutting edge
  - Superior self-threading effect for easy placement path adjustment
  - Enhanced initial stability in soft bone and consistent placement torque according to the drill diameter
- Various body shape options available to match the patient's bone quality and clinical condition
  - USII (straight body) : Easy to adjust placement depth
  - USIII (1.5° taper body) : Excellent initial stability needed for immediate loading even in soft bone
  - USIV (6° taper body) : Specifically designed for use in maxillary sinus and soft bone, providing excellent initial stability
- Available surface types - SA / CA / BA / SOI

OSSTEM Implant

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

Surface feature

SA

Optimized Surface through Acid Treatment

- Ra 2.0~3.0 ㎛ surface roughness (Note : The roughness in the upper 0.5mm part is Ra 0.5~0.6 ㎛)
- Consistent surface micro-pits of 1~3 ㎛
- Surface area increased by 46% compared to RBM treated implants

In-vitro and In-vivo Bone Response

- Osteoblast differentiation and ossification improved by 20% compared to RBM treated implants
- Initial bone reaction performance in big animal model (mini-pig)
  - Initial stability (RT, 4 weeks) improved by 48% compared to RBM treated implants
  - Ossification (BIC, 4 weeks) improved by 20% compared to RBM treated implants

CA

Super-hydrophilic SA surface immersed in a calcium solution

- Same surface morphology as SA surfaces
- Surface reaction activated by immersing in a calcium solution (CaCl2)
- Increased new bone formation area with excellent blood wettability
- Bone response improved in early osseointegration stage compared to standard SA surface

In-vitro and In-vivo Bone Response

- Protein and cellular adhesion tripled compared to SA surfaces
- Initial cellular differentiation (7 days) improved by 19% compared to SA surfaces
- Initial stability (RT, 4 weeks) improved by 34% compared to SA surfaces
- Ossification (BIC, 4 weeks) improved by 26% compared to SA surfaces

BA

Premium low crystalline nano-HA coated SA surface

- 10nm ultra-thin HA coating
- SA surface (Ra 2.0~3.011 ㎛) coated with HA
- Dual functions of titanium and HA
  - HA is naturally resorbed during ossification

In-vitro and 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 bone of poor quality
- Ossification (BIC) improved by 26% compared to SA surfaces
- Applicable to all types of bone quality

SOI

Next-generation surface with hemostatic effect and pH control feature

- Activation of blood clot formation
- Prevention of carbon adsorption in air
- Same surface roughness (Ra 2.0~3.0 ㎛) as SA surfaces
- Superior blood wettability with super hydrophilic surface

In-vitro and In-vivo Bone Response

- Protein and cellular adhesion increased by 130 times compared to SA surfaces
- Initial stability (RT, 4 weeks improved by 57% compared to SA surfaces
- Surface with the shortest duration of treatment

KIT Contents 1/4

022 One Guide KIT

023 Tissue Punch

023 Flattening Drill

024 Initial Drill

024 Initial Drill (Short type)

024 OneGuide Twist Drill (Ø2.2)

025 OneGuide Drill

026 OneGuide Taper Cortical Drill

026 NoMount Driver

027 Fixture Driver

027 Fixture Driver (Stopper type)

028 OneGuide SS NoMount Driver

028 OneGuide SS Fixture Driver

029 OneGuide US NoMount Driver

029 OneGuide US Fixture Driver

030 OneGuide KS NoMount Driver

030 OneGuide KS Fixture Driver

031 OneGuide Path Drill

031 Anchor Drill

031 Mount Driver (OneGuide Anchor Driver)

032 Anchor Screw

032 OneGuide Twist Drill

032 OneGuide Bone Anchor

033 OneGuide Fixture Anchor

033 CT Checker

033 OneGuide Reamer Drill

044 OneGuide Accessory KIT

046 One Positioning KIT

052 OneMS KIT

053 Tissue Punch

053 Flattening Drill

054 OneMS Drill

054 OneMS Cortical Drill

055 MS Narrow Ridge NoMount Driver

055 NoMount Driver (TS)

055 MS Narrow Ridge Fixture Driver

056 Fixture Driver (TS)

056 Fixture Driver (TS, Stopper Type)

056 Adapter

057 Driver Separator

057 OneMS Path Drill

057 OneMS Lance Drill

060 One CAS KIT

061 OneCAS Twist Drill (Ø2.2)

061 OneCAS Drill

062 OneCAS Stopper

062 Depth Gauge

063 Hydraulic Membrane Lifter

063 Bone Carrier Head

063 Bone Carrier

064 One485 KIT

065 One485 Twist Drill

065 One485 Pilot Drill

066 One485 Drill

070 Denture 4U KIT

071 Denture 4U Guide

071 Posterior Guide

071 Crest Remover

072 Anchor Screw

072 Anchor Drill

072 Guided Initial Drill

073 Twist Drill

073 Countersink

073 Indicator

073 Path Checker

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074 Multi Abutment Machine Driver

074 Multi Abutment Outer Driver

076 Positioning Guide KIT

077 Positioning Guide Full KIT

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078 Single Guide

078 Guide Pin (Fixture)

079 Guide Pin

079 Bridge Guide

079 Multi Joint Handle

079 Denture Guide

080 L-wrench

080 Distance Setup Pin

081 Smart Guide KIT

082 Smart Guide

082 Twist Drill

082 X Sleeve

083 Twist Drill (Ø2.2)

083 Guide Pin

084 122 Taper KIT

085 122 Taper Full KIT

086 122 Taper Drilll

086 Cortical Drill (Ultra-wide)

087 Parallel Pin (122 Taper Drill)

094 Taper KIT

095 Taper Ultra KIT

096 Taper Drill

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

097 Taper Ultra Drill

097 Cortical Drill (Ultra-wide)

097 Parallel Pin (Taper Drill)

098 Tapered Fixture Tap (Taper Fixture TSIII, USIII, SSIII SA)

106 123 Straight Simple KIT

107 123 Twist Drill

107 123 Drill Stopper

108 123 Cortical Drill

110 123 Straight KIT

111 123 Straight Full KIT

112 123 Twist Drill (Stopper Drill)

112 123 Ultra Twist Drill

113 Parallel Pin (123 Drill)

113 Trial Pin (Ultra-wide)

120 New Hanaro KIT

122 Twist Drill (Stopper Drill)

122 Twist Drill (Non stopper Drill)

123 Long Shank Pilot Drill

123 Cortical Drill 2 (TSII, SSII SA)

123 Cortical Drill 3 (Taper Fixture TSIII, SSIII, USIII, KSIII)

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

124 Straight Fixture Tap (TSII, USII, SSII SA)

124 Parallel Pin

126 Ultra KIT

127 Direct Drill

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138 485 KIT

139 485 Drill

142 123 Guide Drill

142 Lance Drill (Guide Drill)

142 Sidecut Drill

143 Drill Extension

143 TS NoMount Driver

143 SS NoMount Driver

144 US NoMount Driver

144 KS NoMount Driver

144 TS NoMount Torque Driver

145 SS NoMount Torque Driver

145 TS Fixture Driver

145 SS Fixture Driver

146 US Fixture Driver

146 KS Fixture Driver

146 Torque Extension

147 Simple Mount Driver

147 Simple Mount Extension

KIT Contents 3/4

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148 Removal Tool (Fixture Mount)

148 Depth Gauge

148 Positioning Guide

148 Tissue Height Gauge (TS)

149 Ratchet Wrench

149 L-Wrench

149 Torque Wrench (Spring Type)

149 Torque Wrench (Bar Type)

150 Torque Wrench Set

150 Tissue Punch

151 Bone Profiler (TS)

151 Bone Profiler (US)

152 Trephine Drill

152 Machine Driver Handle

152 Bone Mill

153 Anterior Hand Driver (Implant)

153 Torque Handle

154 Prosthetic Simple KIT

155 Prosthetic KIT

156 Hand Driver

156 Machine Screw Driver

157 Torque Driver

157 Angled Torque Driver

157 Repair Torque Driver

158 Solid Abutment Driver

158 O-ring Abutment Driver

158 Rigid Outer Driver

159 Excellent Solid Abutment Driver

159 Octa Abutment Driver

160 Multi Abutment Machine Driver

160 Abutment Holder

160 Abutment Positioning Driver

160 Multi Abutment Outer Driver

161 Locator Torque Driver

161 Osstem Torque Driver

161 Path Probe (TS)

161 Path Probe (KS)

162 Torque Connector

162 Machine Driver Connector

162 Driver Handle

162 Finishing Reamer Set

163 Reamer Bite

163 Reamer Tip (Rigid Abutment)

163 Reamer Tip (Solid, Excellent Solid Abutment)

164 CAS KIT

165 CAS Drill

165 Guide Drill

165 Twist Drill (Ø 2.2)

166 Hydraulic Membrane Lifter Set

166 Stopper

166 Bone Carrier

166 Bone Carrier Head

167 Bone Condenser

167 Hydraulic Membrane Lifter Tube

167 Membrane Lifter

168 Depth Gauge

168 Bone Spreader

168 Y-Connector

170 LAS KIT

171 LAS Full KIT

172 Dome Drill

172 Core Drill

172 Side Wall Drill

173 Bone Separator

173 Stopper

174 ESSET KIT

175 Crest Remover

175 Twist Drill

175 Saw

KIT Contents 4/4

OSSTEM
IMPLANT

OSSTEM KIT

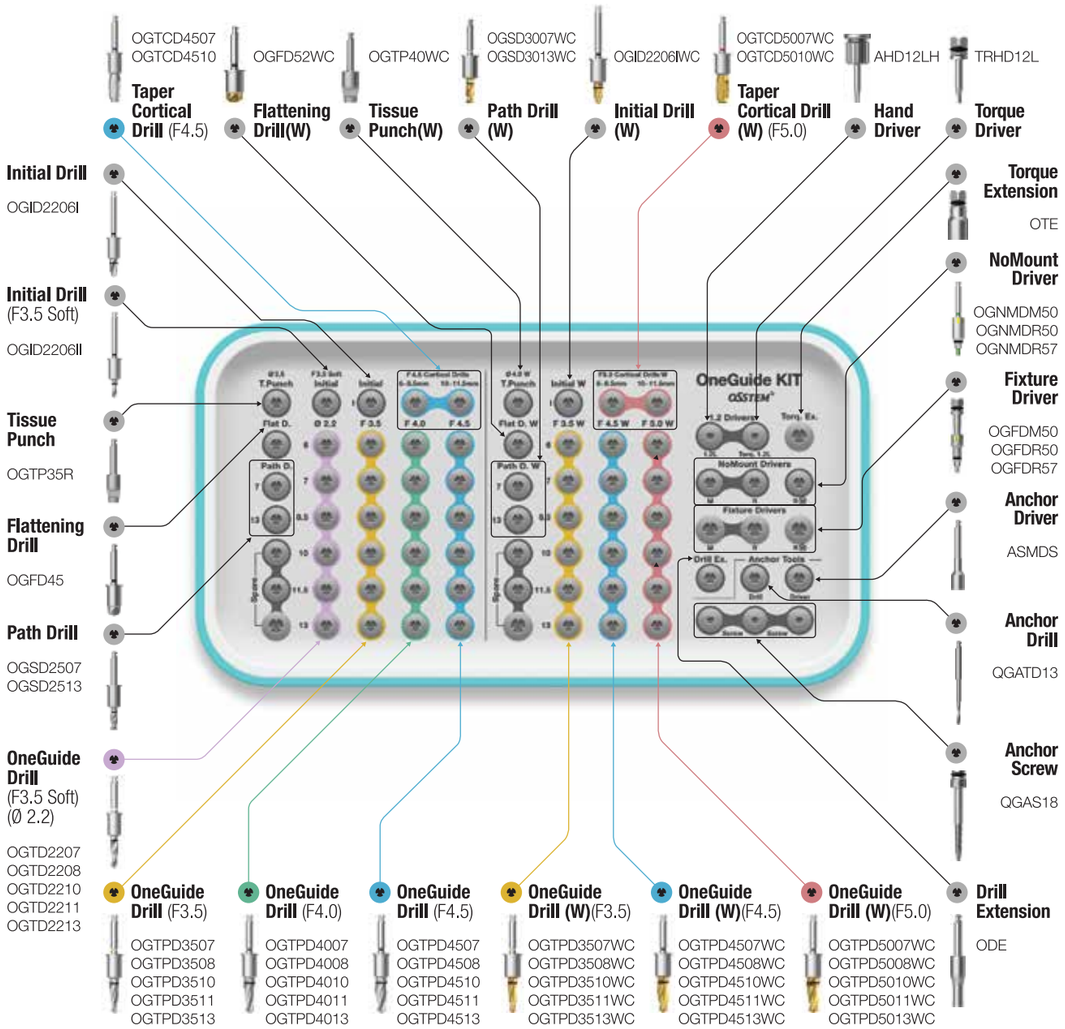
OneGuide KIT (OOGK) RENEWAL 2020

For TSIII / IV SSIII USIII KSIII

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



OneGuide KIT Surgical Instruments

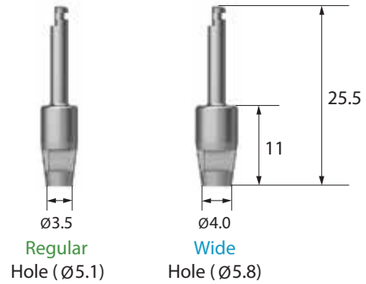
OneGuide

- Sleeveless type : 2 types, open type and close type
  - Open type can be used in posterior region with limited opening
- Metal sleeve type : 1 close type
  - Inserted to the OneGuide hole for use
  - Option available upon ordering the surgical guide
- 2 guide hole types according to the diameter of the fixture
  - Regular hole (Ø5.1) : F3.5 / 4.0 / 4.5
  - Wide hole (Ø5.8) : F5.0
- Double contact function for excellent implant placement accuracy
  - Drill for double contact with drilling hole and OneGuide
- Simple drilling sequence by using 122 Taper KIT Drill
- Packing unit : surgical guide
  - Option : OneFit Abutment, temporary crown

Tissue Punch RENEWAL 2020

- Used to remove gingiva in flapless surgery
- 7 types according to OneGuide hole diameter
- Other types except the 2 types included in the KIT (OGTP35R, OGTP40W) are sold separately

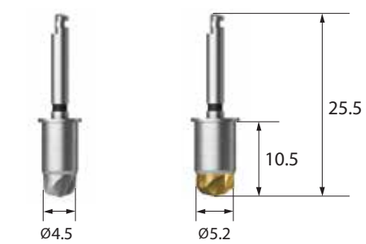
D	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
Ø3.0	OGTP30R	-
Ø3.5	OGTP35R	-
Ø4.0	OGTP40R	OGTP40WC
Ø4.5	OGTP45R	OGTP45WC
Ø5.0	-	OGTP50WC



Flattening Drill

- Used for narrow or uneven ridges
- Many cutting blades enabling stable removal without bouncing
- 2 types (for below F4.5 / for F5.0)

	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
For below F4.5	OGFD45	-
F5.0	-	OGFD52WC

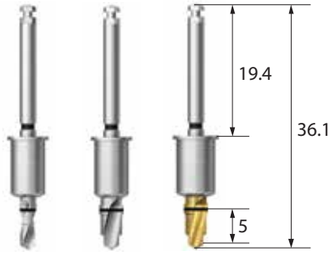


OneGuide KIT Surgical Instruments

Initial Drill

- Positioning of placement location after using Tissue Punch
- Securing the guide depth of the following drill
- 3 types (F3.5 soft, F4.0/4.5, F5.0)
- Sold separately

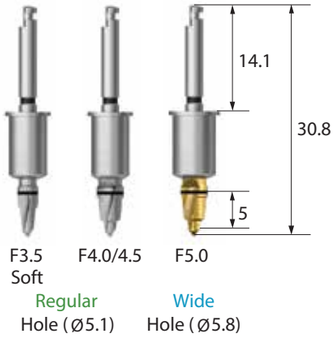
	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
F3.5 Soft	OGID2206II	-
F4.0/F4.5	OGID2206I	-
F5.0	-	OGID2206IWC



Initial Drill (Short Type) NEW 2020

- Short type drill with a handle 5.3mm shorter than the Initial Drill
- Used for limited intermaxillary space
- 3 types (F3.5 soft, F4.0/4.5, F5.0)
- Sold separately

	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
F3.5 Soft	OGD2206IIS	-
F4.0/F4.5	OGD2206IS	-
F5.0	-	OGD2206ISWC

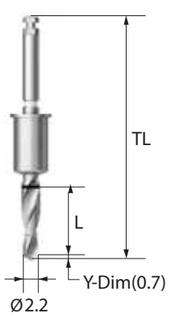


OneGuide Twist Drill (Ø2.2)

- Used for placing a F3.5 Fixture in soft bone
- 5 types according to the length

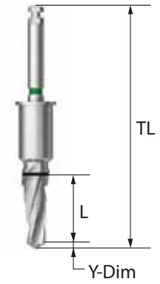
Regular Hole (Ø5.1)

L	TL	Ø2.2
7	36.1	OGTD2207
8.5	36.1	OGTD2208
10	36.1	OGTD2210
11.5	37.6	OGTD2211
13	39.1	OGTD2213



OneGuide Drill

- Taper Drill optimized for III/IV type Fixture
  - Used for placing F3.5~F5.0 and 6~13mm Fixture
- Stable drilling with multi-stage structure
- 6mm diameter and F5.5(W) types are sold separately



Regular Hole (Ø5.1)

L	TL	F3.5	F4.0	F4.5	
	Y-Dim	0.7	0.9	1.0	
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	-
11.5	37.6	OGTPD3511	OGTPD4011	OGTPD4511	-
13	39.1	OGTPD3513	OGTPD4013	OGTPD4513	-

Wide Hole (Ø5.8)

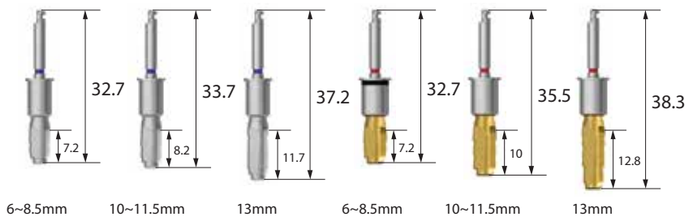
L	TL	F3.5 (W)	F4.5 (W)	F5.0 (W)	F5.5 (W)
	Y-Dim	0.7	1.0	1.0	1.0
6	36.1	OGTPD3506WC	OGTPD4506WC	OGTPD5006WC	OGTPD5506WC
7	36.1	OGTPD3507WC	OGTPD4507WC	OGTPD5007WC	OGTPD5507WC
8.5	36.1	OGTPD3508WC	OGTPD4508WC	OGTPD5008WC	OGTPD5508WC
10	36.1	OGTPD3510WC	OGTPD4510WC	OGTPD5010WC	OGTPD5510WC
11.5	37.6	OGTPD3511WC	OGTPD4511WC	OGTPD5011WC	OGTPD5511WC
13	39.1	OGTPD3513WC	OGTPD4513WC	OGTPD5013WC	OGTPD5513WC

OneGuide KIT Surgical Instruments

RENEWAL 2020

OneGuide Taper Cortical Drill

- Used for placing F4.5 and F5.0 Fixtures in hard bone
- Optimized placement torque by cutting cortical bone
- Product for 13mm diameter Fixtures is sold separately
- Drilling up to the marking line when placing F5.0 6mm



L	Regular Hole (Ø5.1) F4.5	Wide Hole (Ø5.8) F5.0W
6 / 7 / 8.5mm	OGTCD4507	OGTCD5007WC
10 / 11.5mm	OGTCD4510	OGTCD5010WC
13mm	OGTCD4513	OGTCD5013WC

NoMount Driver

- Used for placing a NoMount fixture
- ※ It is recommended to place up to 80% of the planned fixture placement depth
- C = Connection

C	Regular Hole (Ø5.1) Mini	Regular Hole (Ø5.1) Regular	Wide Hole (Ø5.8) Regular
F3.5	OGNMDM50	-	-
F4.0 / F4.5	-	OGNMDR50	-
F5.0	-	-	OGNMDR57

Fixture Driver

- Used by assembling to a wrench for adjusting the final placement depth
- Yellow groove formed to align the abutment hex direction
- Checked by matching the groove of OneGuide with the groove of driver
- C = Connection

C	Regular Hole (Ø5.1) Mini	Regular Hole (Ø5.1) Regular	Wide Hole (Ø5.8) Regular
F3.5	OGFDM50	-	-
F4.0 / F4.5	-	OGFDR50	-
F5.0	-	-	OGFDR57

Fixture Driver (Stopper Type) NEW 2020

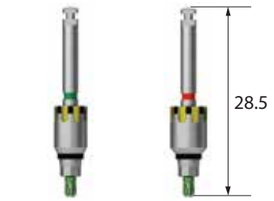
- Featuring stopper design to prevent entry below the upper surface of OneGuide hole
- Sold separately
- C = Connection

C	Regular Hole (Ø5.1) Mini	Regular Hole (Ø5.1) Regular	Wide Hole (Ø5.8) Regular
F3.5	OGFDSM50	-	-
F4.0 / F4.5	-	OGFDSR50	-
F5.0	-	-	OGFDSR57

OneGuide KIT Surgical Instruments

OneGuide SS NoMount Driver

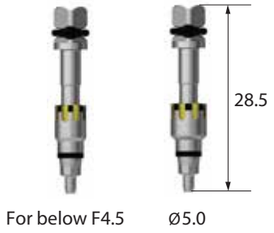
- Used for placing a SSIII NoMount fixture
- It is recommended to place up to 80% of the planned fixture placement depth
- Sold separately
- P = Platform



P	Regular Hole (Ø5.1) Regular	Wide Hole (Ø5.8) Regular
For below F4.5	OGNMDR50S	-
F5.0	-	OGNMDR57S

OneGuide SS Fixture Driver

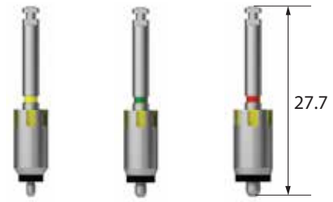
- Used by assembling to a wrench for adjusting the final placement depth
- Placing SSIII G/H 2.8 up to the octa custom groove marking line
- Yellow groove formed to align the abutment octa direction
- Checked by matching the groove of OneGuide with the groove of driver
- Sold separately
- P = Platform



P	Regular Hole (Ø5.1) Regular	Wide Hole (Ø5.8) Regular
For below F4.5	OGFDR50S	-
F5.0	-	OGFDR57S

OneGuide US NoMount Driver

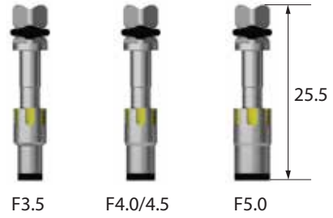
- Used for placing a USIII NoMount Fixture
- It is recommended to place up to 80% of the planned fixture placement depth
- Sold separately
- P = Platform



P	Regular Hole (Ø5.1) Mini	Regular	Wide Hole (Ø5.8) Wide
F3.5	OGNMDM50U	-	-
F4.0 / F4.5	-	OGNMDR50U	-
F5.0	-	-	OGNMDW57U

OneGuide US Fixture Driver

- Used by assembling to a wrench for adjustment of the final placement depth
- Yellow groove formed to align the abutment hex direction
- Checked by matching the groove of OneGuide with the groove of driver
- Sold separately
- P = Platform

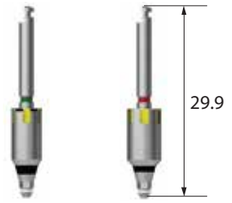


P	Regular Hole (Ø5.1) Mini	Regular	Wide Hole (Ø5.8) Wide
F3.5	OGFDM50U	-	-
F4.0 / F4.5	-	OGFDR50U	-
F5.0	-	-	OGFDW57U

OneGuide KIT Surgical Instruments

OneGuide KS NoMount Driver NEW 2020

- Used for placing a KS NoMount Fixture
- It is recommended to place up to 80% of the planned fixture placement depth
- Sold separately
- C = Connection

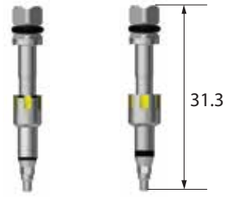


For below F4.5 Ø5.0

C	Regular Hole (Ø5.1) Regular	Wide Hole (Ø5.8) Regular
For below F4.5	OGNMDR50K	-
F5.0	-	OGNMDR57K

OneGuide KS Fixture Driver

- Used by assembling to a wrench for adjustment of the final placement depth
- Yellow groove formed to align the abutment hex direction
- Checked by matching the groove of OneGuide with the groove of driver
- Below F4.5 : Up to the marking line
  - F3.5 : Up to the lower line, placing the a fixture up to the lower part of the hex custom groove line
- Sold separately
- C = Connection

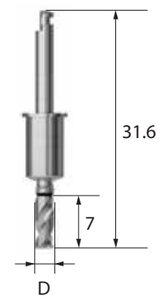


For below F4.5 Ø5.0

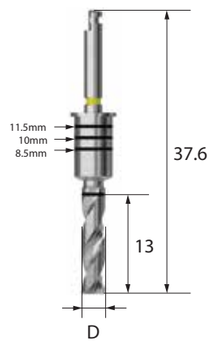
C	Regular Hole (Ø5.1) Regular	Wide Hole (Ø5.8) Regular
For below F4.5	OGFDR50K	-
F5.0	-	OGFDR57K

OneGuide Path Drill 12.2018

- Drill to correct the path deviation during OneGuide surgery
- Drill to form fixture placement path for extraction case
- Flat blade design optimized for cutting inclined bones
- 4 types for each OneGuide hole diameter, 8 types in total : Regular hole (Ø5.1) / Wide hole (Ø5.8)
- Default KIT components : Regular hole (Ø5.1) - Ø2.5 / Wide hole (Ø5.8) - Ø3.0
- 13mm type product adjusts depth according to the marking line (Top line 11.5mm, Midline 10mm, Bottom line 8.5mm)



7mm



13mm

Regular Hole (Ø5.1)

L \ D	Ø2.5	Ø3.0
7	OGSD2507	OGSD3007
13.0	OGSD2513	OGSD3013

Wide Hole (Ø5.8)

L \ D	Ø2.5	Ø3.0
7	OGSD2507WC	OGSD3007WC
13.0	OGSD2513WC	OGSD3013WC

Anchor Drill

- Used for drilling before using an Anchor Screw

QGATD13

Mount Driver (OneGuide Anchor Driver)

- Used by connecting to a simple mount for placing a fixture (Short type)
- Used by connecting to an Anchor Screw for OneGuide surgery

ASMDS

OneGuide KIT Surgical Instruments

Anchor Screw

- Used for fixing OneGuide in place (e.g. edentulous case)
- Applied selectively in preoperative planning stage

QGAS18

OneGuide Twist Drill 11.2019

- Used for drilling before using an OneGuide Bone Anchor
- Sold separately

	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
Ø1.5	OGTD1506	OGTD1506W

OneGuide Bone Anchor 11.2019

- Used for fixing OneGuide in place vertically (e.g. edentulous case)
- Mounted on alveolar bone to fix OneGuide in place
- Soft bone : placed directly
- Normal/hard bone : placed after using the OneGuide Twist Drill for Bone Anchor
- Tightened 20rpm FWD with Anchor Driver
- Sold separately

	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
Ø2.5	OGBAR	OGBAW

OneGuide Fixture Anchor 11.2019

- Used for fixing OneGuide in place vertically (e.g. edentulous case)
- Placed to the fixture vertically to fix OneGuide in place
- Tightened with 1.2 hex driver (hand mode)
- Only used for a Regular connection of F4.0 or greater
- Sold separately

	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
M2.0	OGFAR	OGFAW

CT Checker 08.2019

- Checking the drilling path through CT scan by connecting to the guide hole before OneGuide procedure (e.g. edentulous case)
- 1 type each for each hole diameter
- Sold separately
- 1set = 5ea

Narrow Hole (Ø3.6)	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
Narrow Hole (Ø3.6)	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)

Narrow Hole (Ø3.6)	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
CTCHK35S	CTCHK50S	CTCHK57S

OneGuide Reamer Drill 2019

- Reamer for hole size adjustment after OneGuide template output
- 3 types according to the OneGuide hole size
- Sold separately

Narrow Hole (Ø3.6)	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
Narrow Hole (Ø3.6)	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)

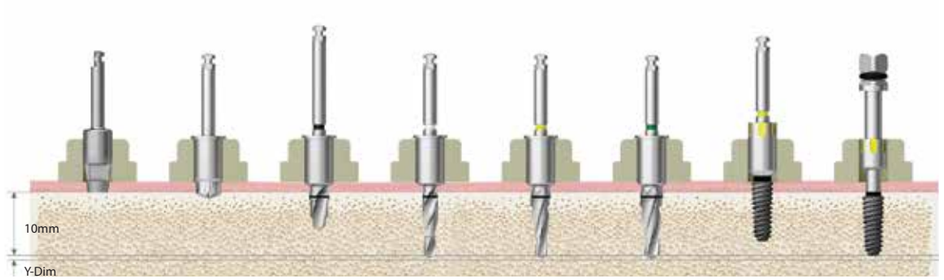
Narrow Hole (Ø3.6)	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)
OGRD36	OGRD51	OGRD58

Drilling Sequence **OneGuide Drill**

TSIII | SSIII | USIII | KSIII

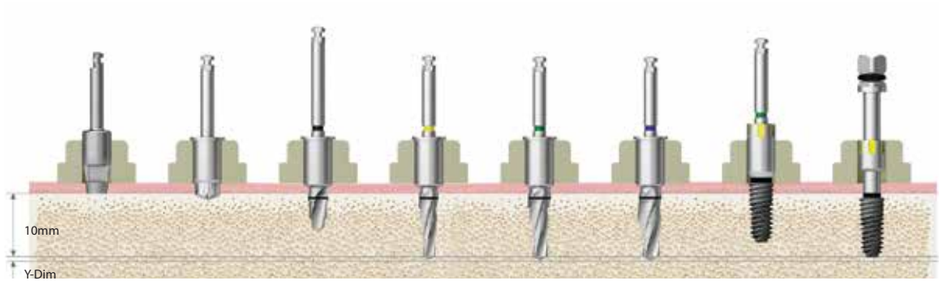
(Length : 10mm)

Ø 3.5



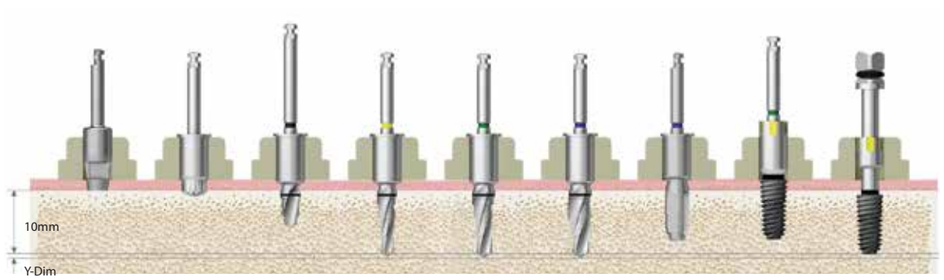
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (Ø2.2)	Drill (F3.5)	Drill (F4.0)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	(F3.5 Soft) ☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒		☒			
Hard	☒	(☒)	☒		☒	☒		

Ø 4.0



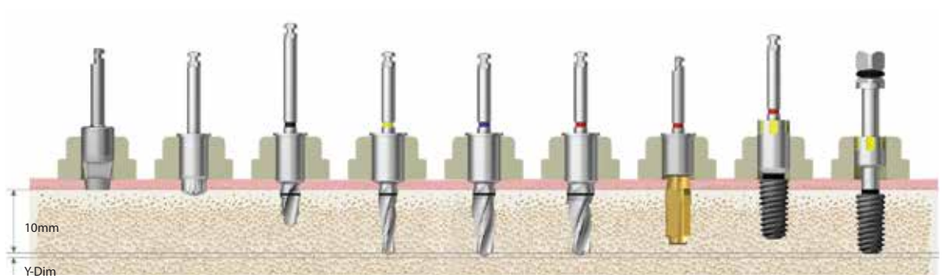
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒	☒			
Hard	☒	(☒)	☒	☒		☒		

Ø 4.5



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

Ø 5.0



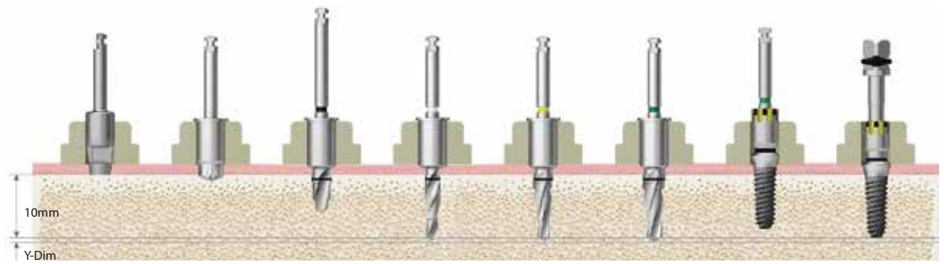
Bone Quality	Tissue Punch	Flattening Drill (W)	Initial Drill (W)	Drill (W) (F3.5)	Drill (W) (F4.5)	Drill (W) (F5.0)	Cortical (W) (F5.0)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒		☒			
Hard	☒	(☒)	☒	☒		☒	☒		

Drilling Sequence **OneGuide Drill**

TSIII | SSIII | USIII | KSIII

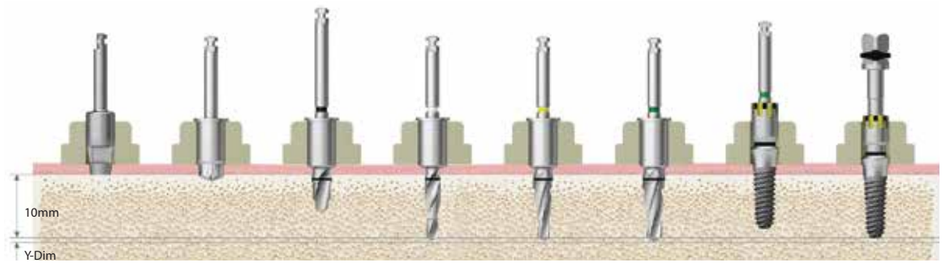
(Length : 10mm)

G/H 1.8 Ø 3.5



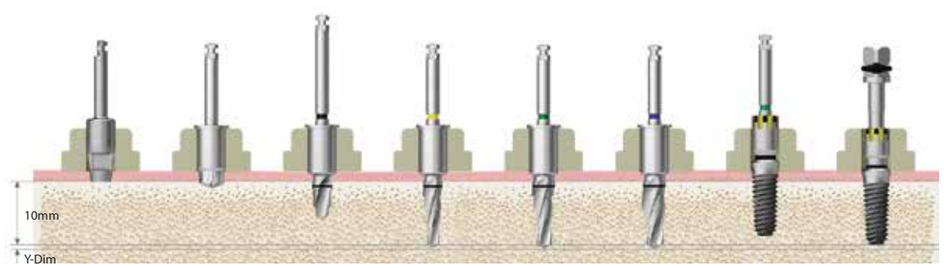
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (Ø2.2)	Drill (F3.5)	Drill (F4.0)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	(F3.5 Soft) ☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒		☒			
Hard	☒	(☒)	☒		☒	☒		

G/H 2.8 Ø 3.5



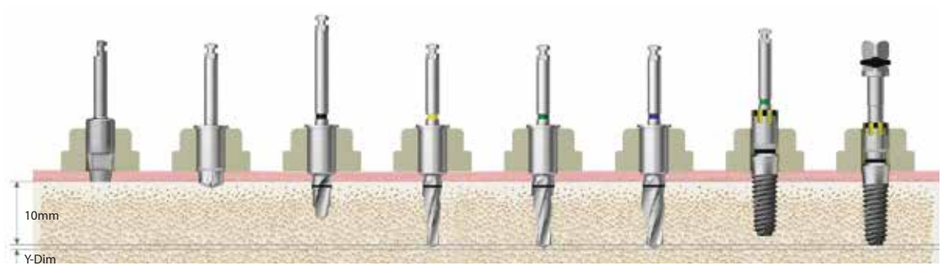
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (Ø2.2)	Drill (F3.5)	Drill (F4.0)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	(F3.5 Soft) ☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒		☒			
Hard	☒	(☒)	☒		☒	☒		

G/H 1.8 Ø 4.0



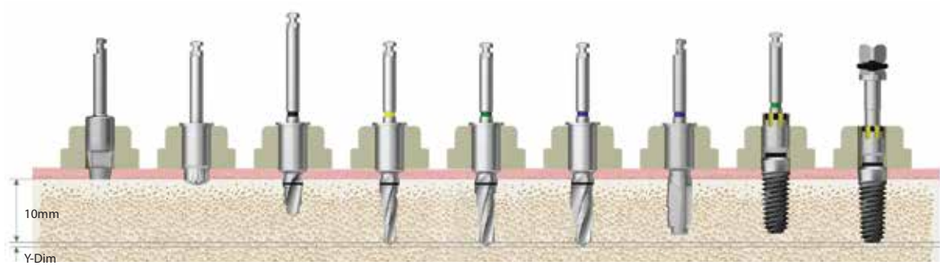
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒	☒			
Hard	☒	(☒)	☒	☒		☒		

G/H 2.8 Ø 4.0



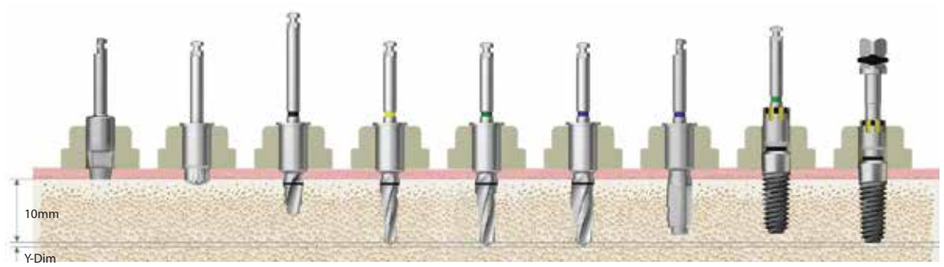
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒	☒			
Hard	☒	(☒)	☒	☒		☒		

G/H 1.8 Ø 4.5



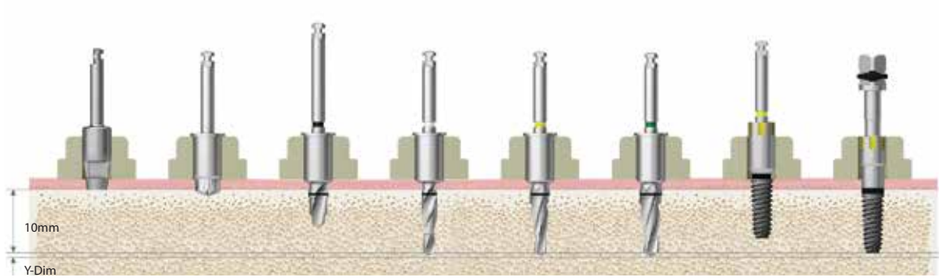
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Cortical (F4.5)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒		☒			
Hard	☒	(☒)	☒	☒		☒	☒		

G/H 2.8 Ø 4.5



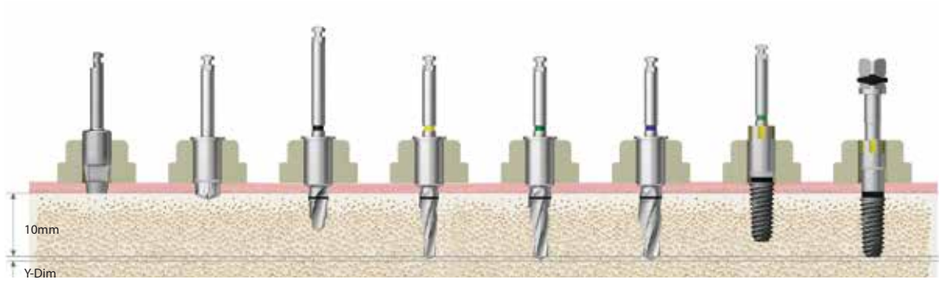
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Cortical (F4.5)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒		☒			
Hard	☒	(☒)	☒	☒		☒	☒		

Ø 3.5



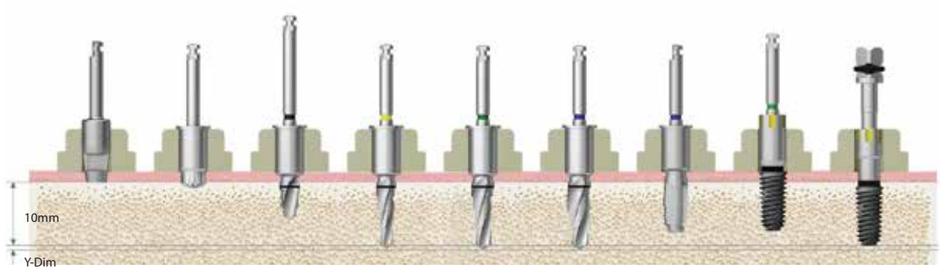
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (Ø2.2)	Drill (F3.5)	Drill (F4.0)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	(F3.5 Soft) ☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒		☒			
Hard	☒	(☒)	☒		☒	☒		

Ø 4.0



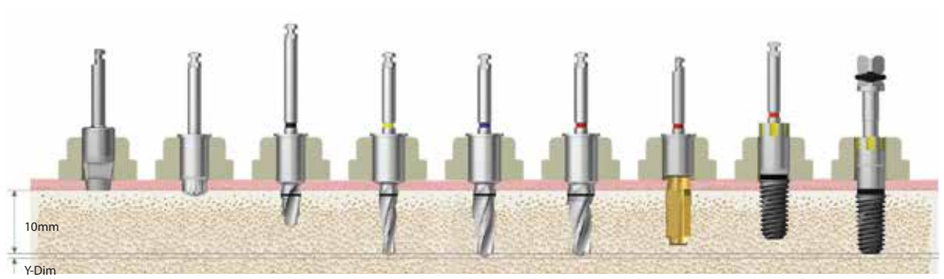
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒	☒			
Hard	☒	(☒)	☒	☒		☒		

Ø 4.5



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

Ø 5.0



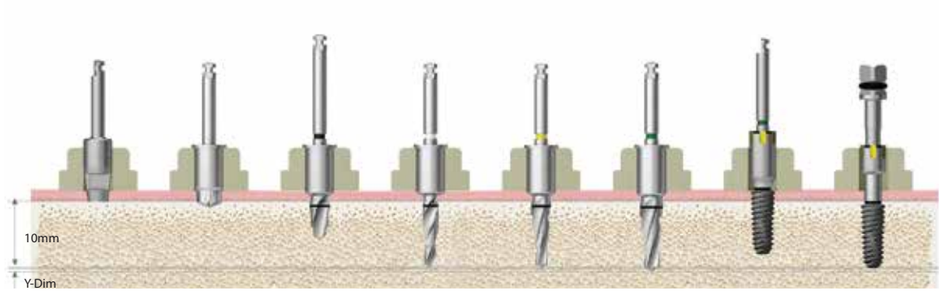
Bone Quality	Tissue Punch	Flattening Drill (W)	Initial Drill (W)	Drill (W) (F3.5)	Drill (W) (F4.5)	Drill (W) (F5.0)	Cortical (W) (F5.0)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒		☒			
Hard	☒	(☒)	☒	☒		☒	☒		

Drilling Sequence **OneGuide Drill**

TSIII | SSIII | USIII | KSIII

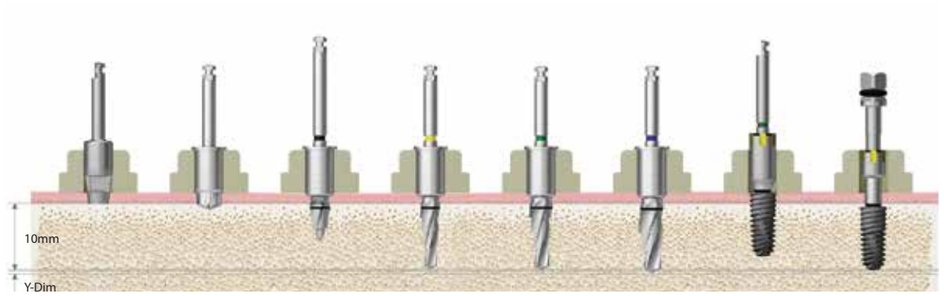
(Length : 10mm)

Ø 3.5



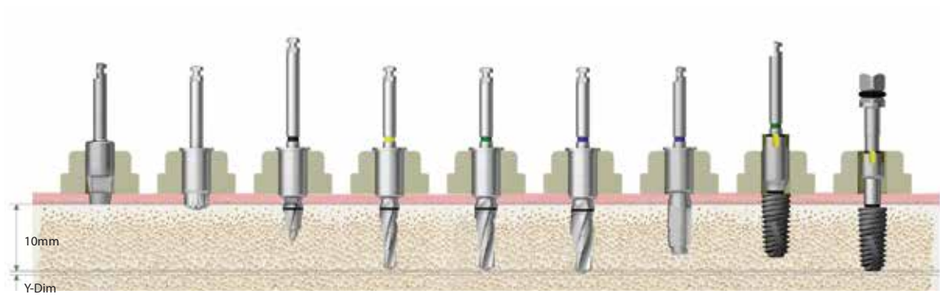
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (Ø2.2)	Drill (F3.5)	Drill (F4.0)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	(F3.5 Soft) ☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒		☒			
Hard	☒	(☒)	☒		☒	☒		

Ø 4.0



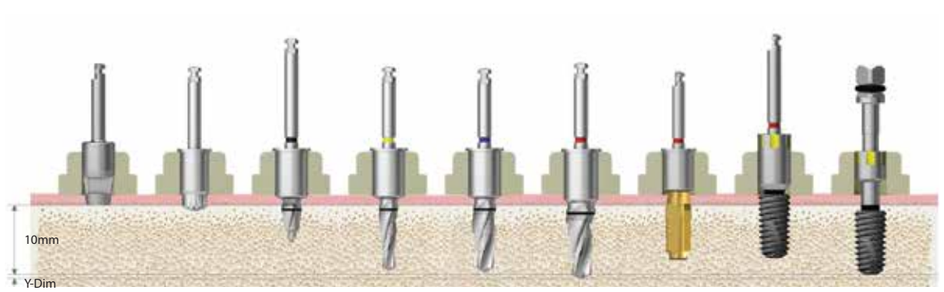
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒	☒			
Hard	☒	(☒)	☒	☒		☒		

Ø 4.5



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

Ø 5.0



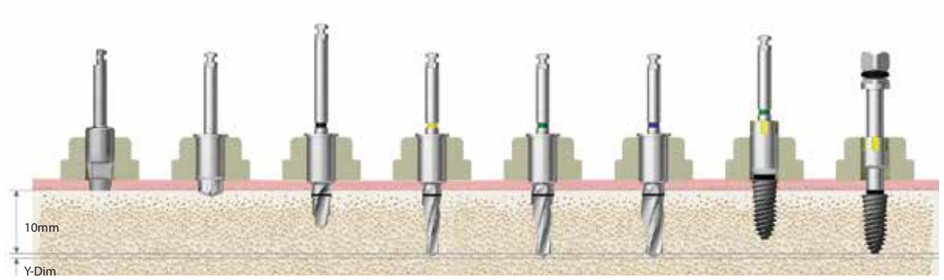
Bone Quality	Tissue Punch	Flattening Drill (W)	Initial Drill (W)	Drill (W) (F3.5)	Drill (W) (F4.5)	Drill (W) (F5.0)	Cortical (W) (F5.0)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒		☒			
Hard	☒	(☒)	☒	☒		☒	☒		

Drilling Sequence **OneGuide Drill**

TSIV

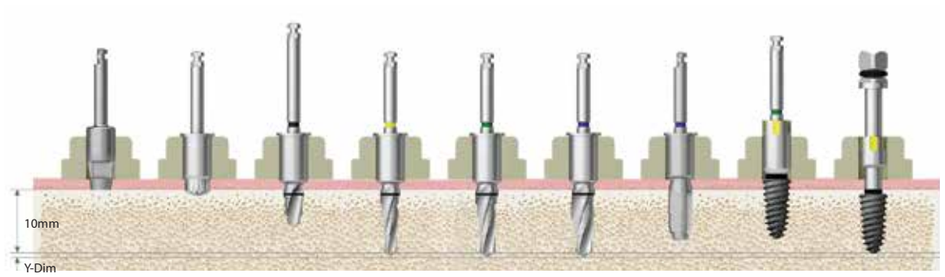
(Length : 10mm)

Ø 4.0



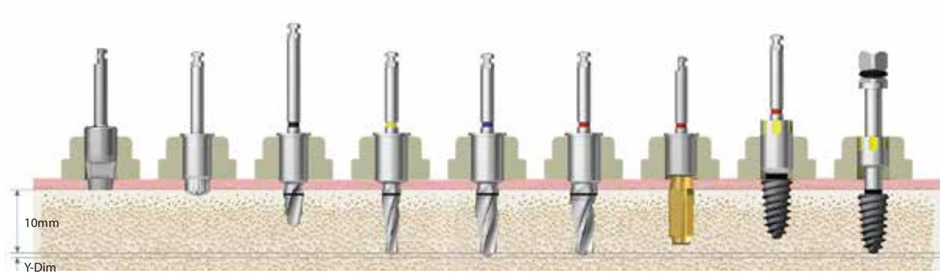
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Nomount Driver	Fixture Driver
Soft	☒	(☒)	☒	☒			Implant Placement (Up to 80%)	Implant Placement
Normal	☒	(☒)	☒	☒	☒			
Hard								

Ø 4.5



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

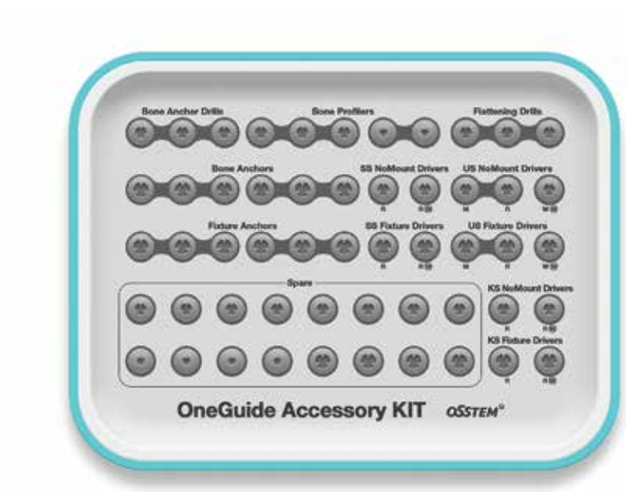
Ø 5.0



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

OneGuide Accessory KIT (OOGAK) NEW 2020

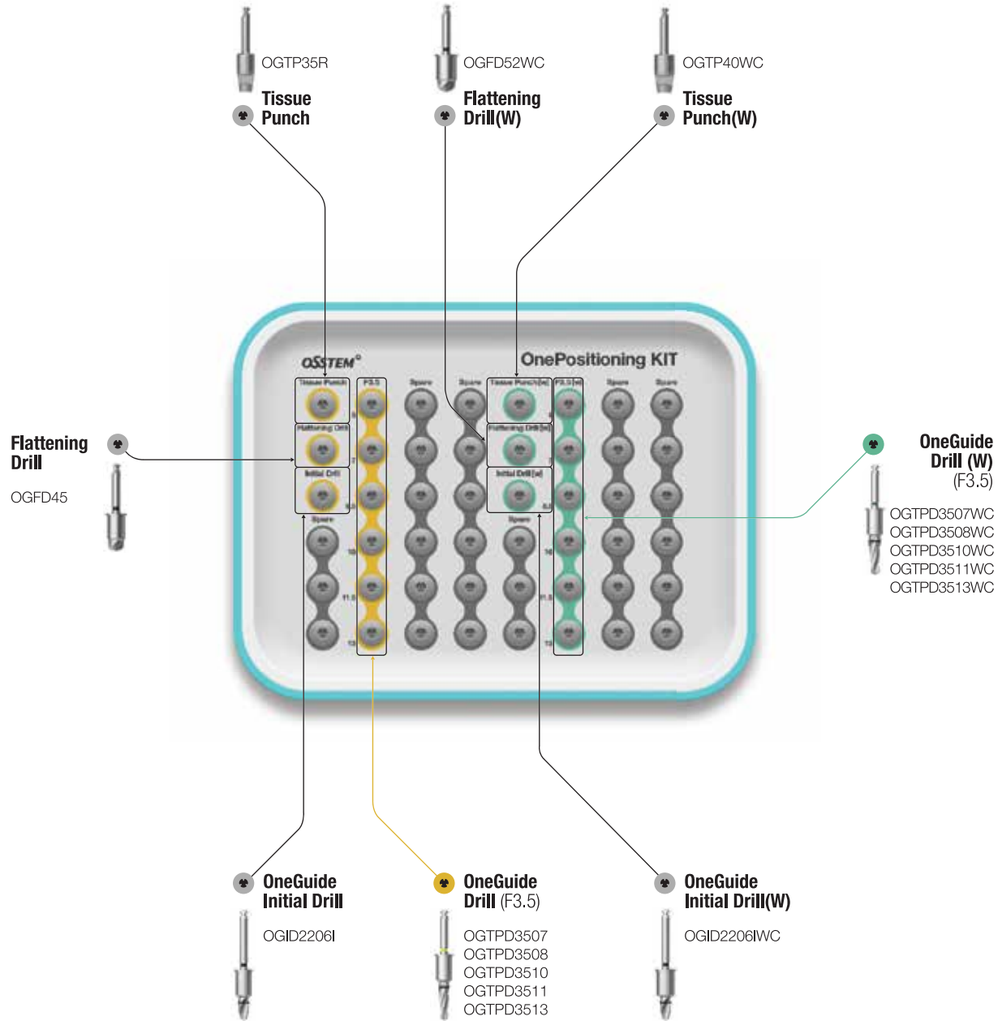
- KIT consisted of the tools selected by user
- Possible to accommodate the products not included in the OneGuide KIT by default such as OneGuide Bone/Fixture Anchor, and SS/US/KS Driver
- Spare holes deployed by rubber size (Large 4, Medium 8, Small 4) for user preferences



OnePositioning KIT (OOPK) 2019

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

- Selecting the initial placement position, path and depth using OneGuide
- Removing OneGuide after F3.5 drilling and proceeding up to fixture placement through manual surgery

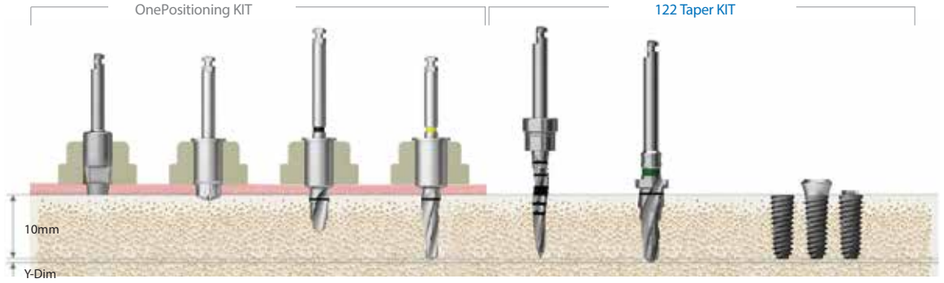


Drilling Sequence OneGuide Drill + 122 Taper Drill

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

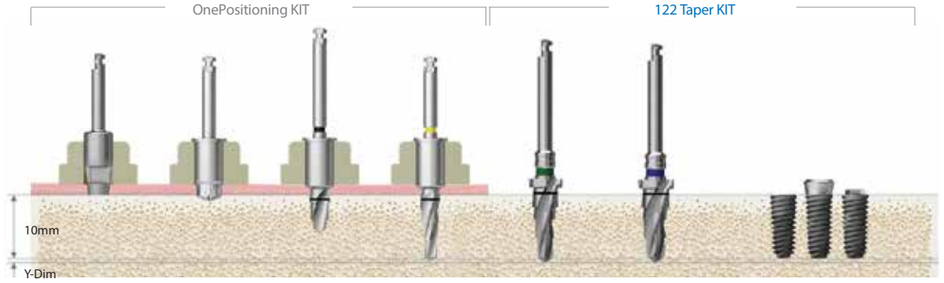
(Length : 10mm)

Ø 3.5



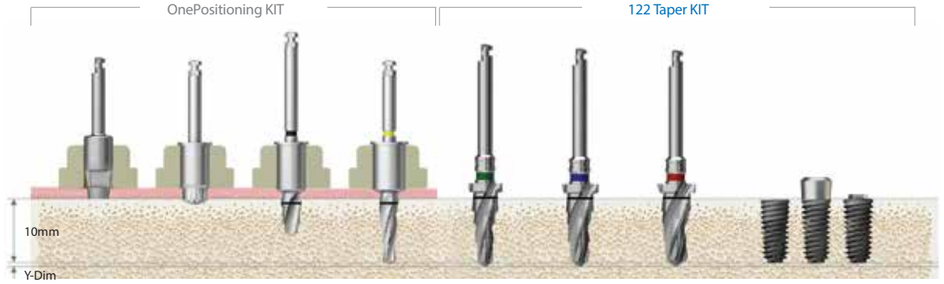
Bone Quality	Tissue Punch	Flattening	Initial	F3.5	Guide Drill	F4.0	
Soft	(☒)	(☒)	☒ F3.5 soft (Option)		☒		Implant Placement
Normal	(☒)	(☒)	☒	☒			
Hard	(☒)	(☒)	☒	☒		☒	

Ø 4.0



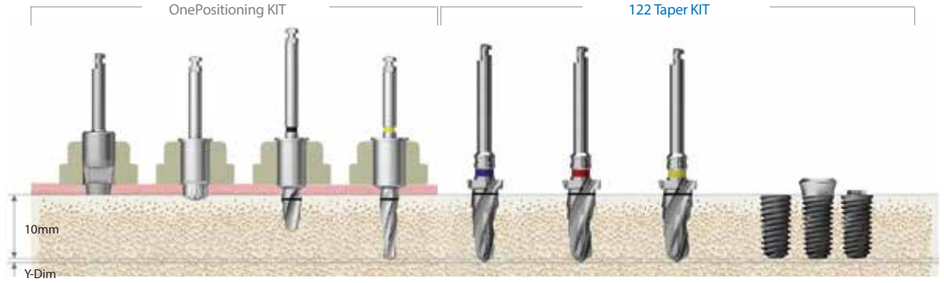
Bone Quality	Tissue Punch	Flattening	Initial	F3.5	F4.0	F4.5	
Soft	(☒)	(☒)	☒	☒			Implant Placement
Normal	(☒)	(☒)	☒	☒	☒		
Hard	(☒)	(☒)	☒	☒		☒	

Ø 4.5



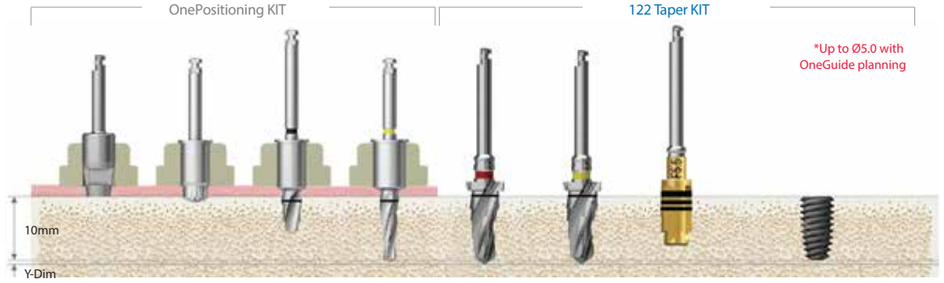
Bone Quality	Tissue Punch	Flattening	Initial	F3.5	F4.0	F4.5	F4.5	
Soft	(☒)	(☒)	☒	☒	☒			Implant Placement
Normal	(☒)	(☒)	☒	☒		☒		
Hard	(☒)	(☒)	☒	☒			☒	

Ø 5.0



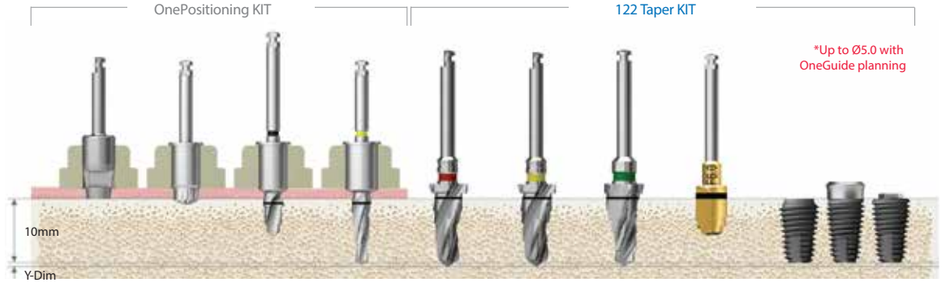
Bone Quality	Tissue Punch (W)	Flattening (W)	Initial (W)	F3.5 (W)	F4.5	F5.0	F5.5	
Soft	(☒)	(☒)	☒	☒	☒			Implant Placement
Normal	(☒)	(☒)	☒	☒		☒		
Hard	(☒)	(☒)	☒	☒			☒	

Ø 5.5



Bone Quality	Tissue Punch (W)	Flattening (W)	Initial (W)	F3.5 (W)	F5.0	F5.5	F5.5 Cortical	
Soft	(☒)	(☒)	☒	☒	☒			Implant Placement
Normal	(☒)	(☒)	☒	☒		☒		
Hard	(☒)	(☒)	☒	☒		☒	☒	

Ø 6.0



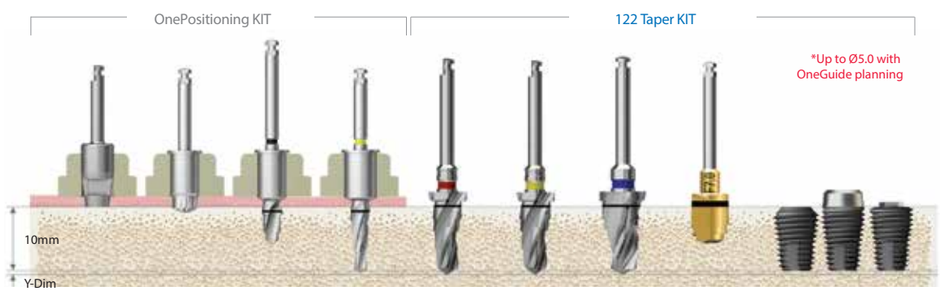
Bone Quality	Tissue Punch (W)	Flattening (W)	Initial (W)	F3.5 (W)	F5.0	F5.5	F6.0	F6.0 Cortical	
Soft	(☒)	(☒)	☒	☒	☒	☒			Implant Placement
Normal	(☒)	(☒)	☒	☒	☒		☒		
Hard	(☒)	(☒)	☒	☒	☒		☒	☒	

Drilling Sequence OneGuide Drill + 122 Taper Drill

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

(Length : 10mm)

Ø 7.0

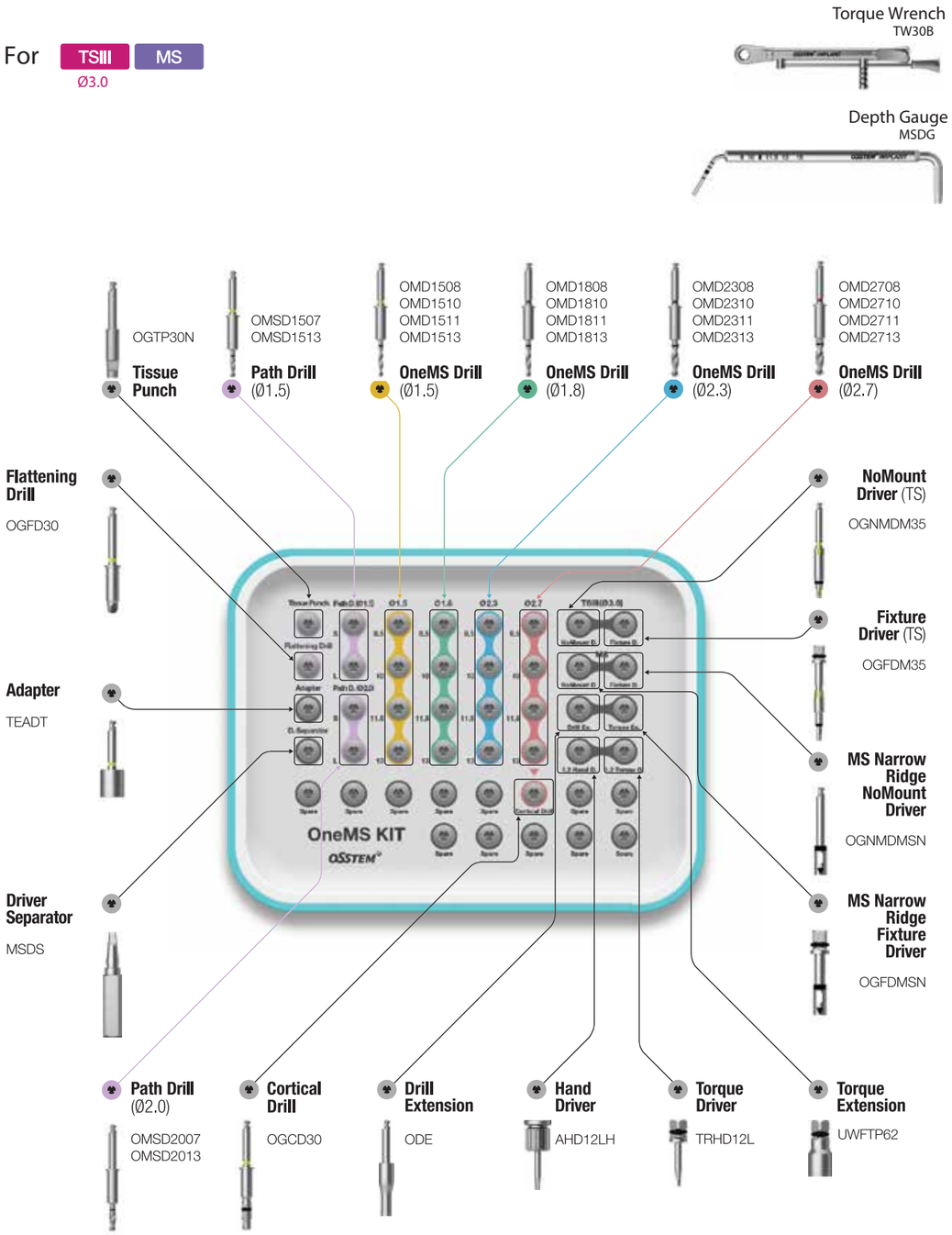


Bone Density	Tissue Punch (W)	Flattening (W)	Initial (W)	F3.5 (W)	F5.0	F6.0	F7.0	F7.0 Cortical	
Soft	(☒)	(☒)	☒	☒	☒	☒			
Normal	(☒)	(☒)	☒	☒	☒		☒		Implant Placement
Hard	(☒)	(☒)	☒	☒	☒		☒	☒	

OneMS KIT (OOMSK) 07.2018

For TSIII MS Ø3.0

Top panel components



OneMS KIT Surgical Instruments

OneGuide Template

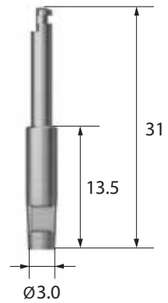
- Sleeveless type : 2 types, open type and close type
  - Open type can be used in posterior region with limited opening
- Metal sleeve type : 1 close type
  - Placed to the OneGuide hole for use
  - Option available upon ordering the surgical guide
- 1 guide hole type for narrow fixture diameter
  - Narrow hole (Ø3.6) : MS narrow Ø2.0 / 2.5 / 3.0, TSIII Ø3.0
- Double contact function for excellent positioning accuracy
  - Drill for double contact with drilling hole and OneGuide
- Simple drilling sequence by using conventional drilling sequence
- Packing unit : surgical guide
  - Option : temporary crown

Tissue Punch RENEWAL 2020

- Used to remove gingiva in flapless surgery

Narrow Hole (Ø3.6)

OGTP30N

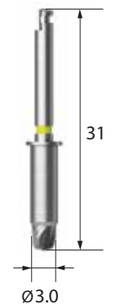


Flattening Drill

- Used for narrow or uneven ridges
- Many cutting edges enabling stable removal without bouncing

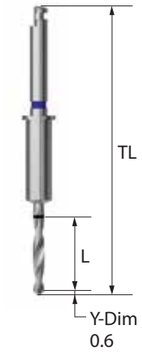
Narrow Hole (Ø3.6)

OGFD30



OneMS Drill

- Optimized Straight Drill for MS implant / TSIII Ø3.0 Fixture
  (For placing MS Ø2.0~3.0, TSIII Ø3.0 Fixtures)
- OneMS Cortical Drill used for placing a TSIII Ø3.0 Fixture in hard bone
- Recommend using 8.5mm Drill within the same diameter for stable drilling
  (Inducing the double contact feature)



Narrow Hole (Ø3.6)

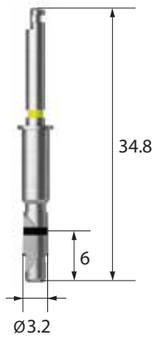
L	TL	Ø1.5	Ø1.8	Ø2.3	Ø2.7
8.5	37.5	OMD1508	OMD1808	OMD2308	OMD2708
10	39.0	OMD1510	OMD1810	OMD2310	OMD2710
11.5	40.5	OMD1511	OMD1811	OMD2311	OMD2711
13	42.0	OMD1513	OMD1813	OMD2313	OMD2713

OneMS Cortical Drill

- Drill used for removing cortical bone from hard bone
- Drill used for expanding the cortical bone after using the Straight Drill (for TSIII Ø3.0 Fixture only)

Narrow Hole (Ø3.6)

OGCD30



MS Narrow Ridge NoMount Driver

- Used for placing a MS implant Narrow Ridge
- Used by matching the triangular marking with the side of the implant

Narrow Hole (Ø3.6)

MS Narrow Ridge
Ø2.0 / Ø2.5 / Ø3.0 — OGNMDMSN

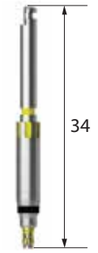
NoMount Driver (TS)

- Used for placing a TSIII Ø3.0 NoMount Fixture
- It is recommended to insert up to 80% of the planned fixture placement depth
- C = Connection

Narrow Hole (Ø3.6)

C — Mini

TSIII Ø3.0 — OGNMDM35



MS Narrow Ridge Fixture Driver

- Used by assembling to a wrench for adjusting the final placement depth of a MS implant Narrow Ridge
- Used by matching the triangular marking with the side of the implant
- Placing up to the lower marking line for G/H 4.0

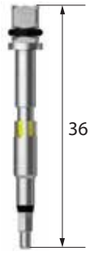
Narrow Hole (Ø3.6)

MS Narrow Ridge
Ø2.0 / Ø2.5 / Ø3.0 — OGFDMSN

Fixture Driver (TS)

- Used by assembling to a wrench for adjusting the final placement depth of a TSIII Ø3.0 Fixture
- Yellow groove formed to align the abutment hex direction
- Checked by matching the groove of OneGuide with the groove of driver
- C = Connection

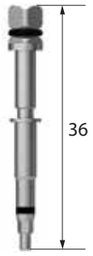
C	Narrow Hole (Ø3.6) Mini
TSIII Ø3.0	OGFDM35



Fixture Driver (TS, Stopper Type) NEW 2020

- Featuring stopper design to prevent entry below the upper surface of OneGuide hole
- Sold separately
- C = Connection

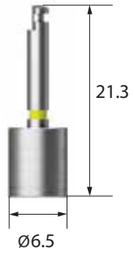
C	Narrow Hole (Ø3.6) Mini
TSIII Ø3.0	OGFDSM35



Adapter

- Driver enabling the driver for Torque Wrench to be used for engine

TEADT



Driver Separator

- When the driver is caught after MS Implant placement, insert the driver separator into the driver groove and remove it by using the lever principle

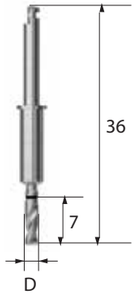
MSDS

OneMS Path Drill 12.2018

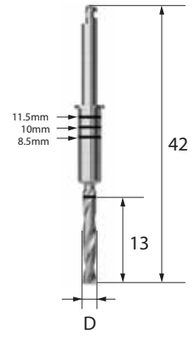
- Drill to correct the path deviation during OneGuide surgery
- Drill to form fixture placement path for extraction case
- Flat blade design optimized for cutting inclined bones
- 2 types for each drill diameter, 4 types in total : Narrow hole (Ø3.6)
- 13mm type product adjusts depth according to the marking line (Top line 11.5mm, Midline 10mm, Bottom line 8.5mm)

Narrow Hole (Ø3.6)

L \ D	Ø1.5	Ø2.0
7.0	OMSD1507	OMSD2007
13.0	OMSD1513	OMSD2013



7mm



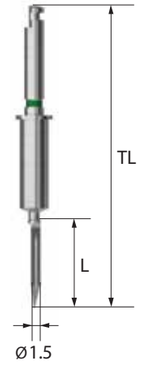
13mm

OneMS Lance Drill

- Forming a hole in bone to facilitate initial drilling
- Bone density can be checked through drilling
- Sold separately

Narrow Hole (Ø3.6)

L \ TL	Ø1.5
8.5 / 37.5	OMLD1508
10 / 39.0	OMLD1510
11.5 / 40.5	OMLD1511
13 / 42.0	OMLD1513

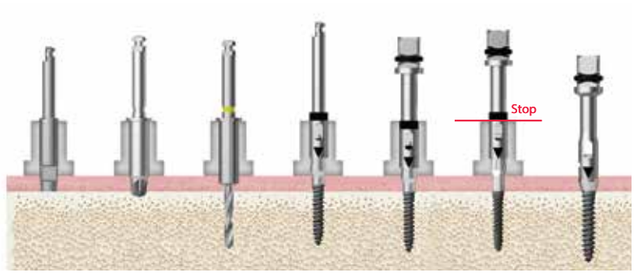


Drilling Sequence **OneMS Drill**

TSIII (Ø3.0) | MS

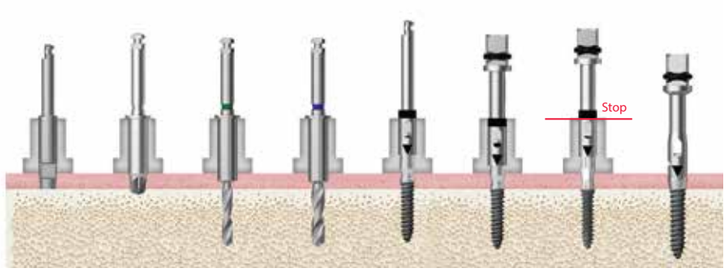
(Length : 10mm)

MS Ø 2.0



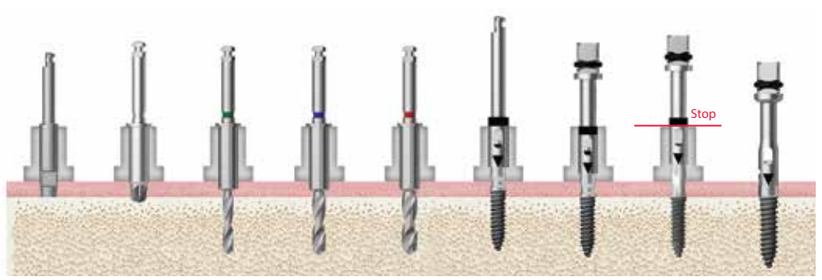
Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø1.5)	NoMount Driver	Fixture Driver		
					G/H 2.5	G/H 4.0	Denture
Soft	☒	(☒)	☒	☒		☒	
Normal	☒	(☒)	☒	☒		☒	
Hard	☒	(☒)	☒	☒		☒	

MS Ø 2.5



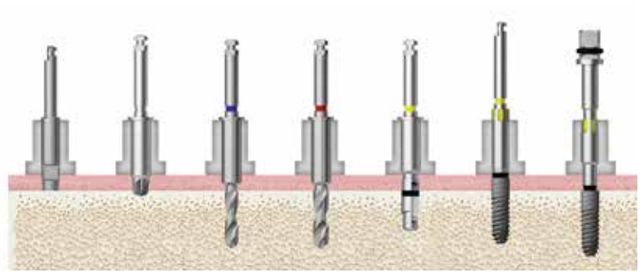
Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø1.8)	OneMS Drill (Ø2.3)	NoMount Driver	Fixture Driver		
						G/H 2.5	G/H 4.0	Denture
Soft	☒	(☒)	☒	-	☒		☒	
Normal	☒	(☒)	☒	-	☒		☒	
Hard	☒	(☒)	-	☒	☒		☒	

MS Ø 3.0



Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø1.8)	OneMS Drill (Ø2.3)	OneMS Drill (Ø2.7)	NoMount Driver	Fixture Driver		
							G/H 2.5	G/H 4.0	Denture
Soft	☒		☒	-	-	☒		☒	
Normal	☒		☒	-	-	☒		☒	
Hard	☒		-	☒	☒	☒		☒	

TSIII Ø 3.0



Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø2.3)	OneMS Drill (Ø2.7)	F4.5 Cortical Drill	NoMount Driver	Fixture Driver
Soft	☒	(☒)	☒			☒	☒
Normal	☒	(☒)	☒	☒		☒	☒
Hard	☒	(☒)	☒	☒	☒	☒	☒

In case of Fixture 10 / 11.5 / 13mm sequence, precede number of drilling with 8.5mm Drill for each step

Ex. Ø2.5×11.5mm MS Fixture

: Tissue Punch ▶ Flattening Drill ▶ Ø1.8×8.5mm ▶ Ø1.8×11.5mm ▶ NoMount Driver ▶ Fixture Driver

OneCAS KIT (OOCK) 04.2018

For TSII / III SSII / III USII / III KSIII

Lower panel components

Bone Carrier Head
OCBCH32, OCBCH37W

Top panel components

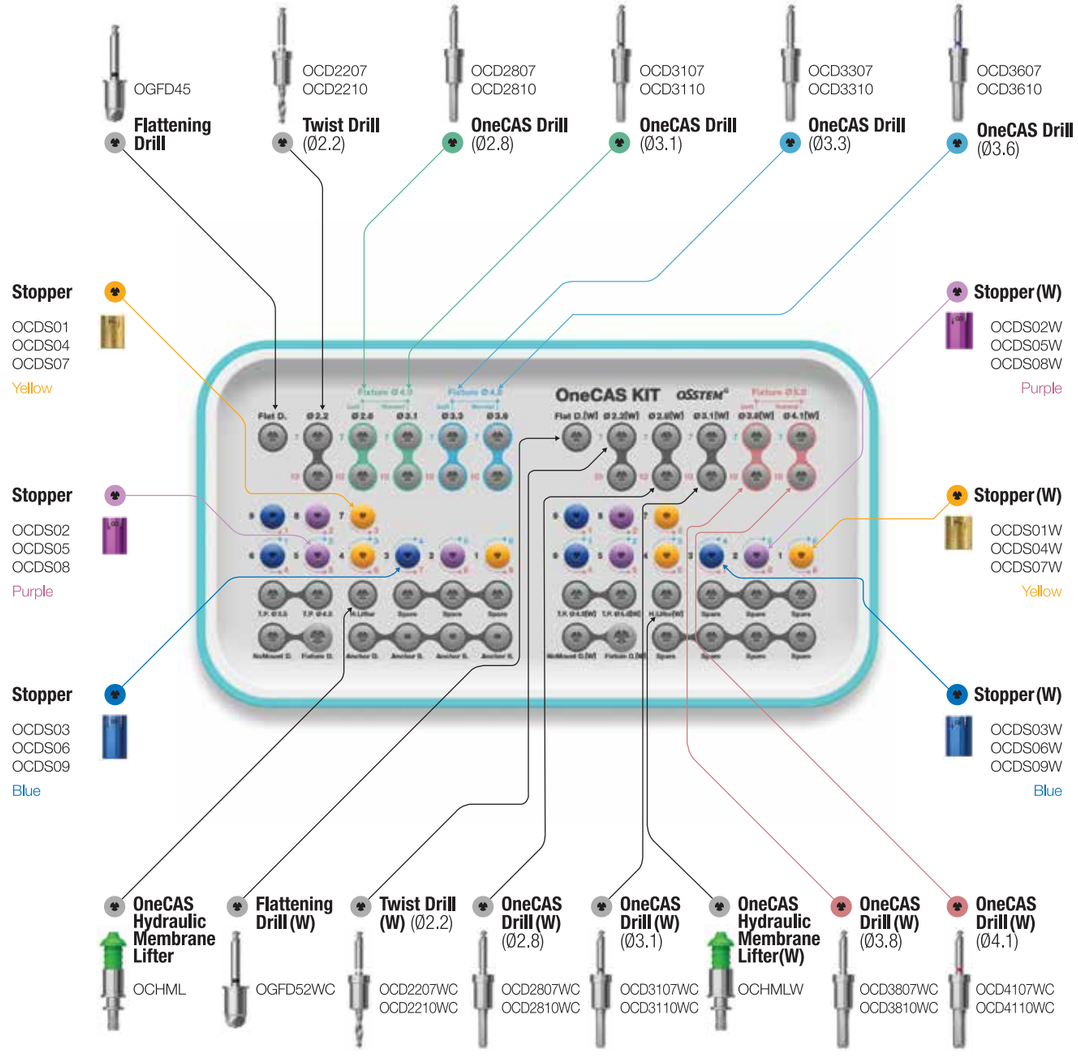
Depth Gauge
OCDG

Depth Gauge (W)
OCDGW

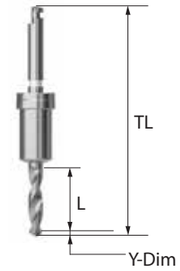
Bone Carrier
OCBCS30

Bone Condenser
SNBC1114

Hydraulic Membrane Lifter Tube
SNMT



OneCAS Twist Drill (Ø 2.2)



- Drilling 1mm under the depth to maxillary sinus floor
- Used with a stopper for safe lifting
- 1mm shorter than a normal Twist Drill

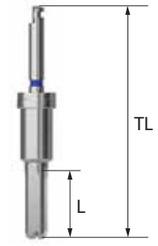
Regular Hole (Ø5.1)

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

Wide Hole (Ø5.8)

L	TL / Y-Dim	Ø2.2 / 0.6
7	33.2	OCD2207WC
10	36.2	OCD2210WC

OneCAS Drill



- Used with a guide of OneGuide system
- Safe lifting of the membrane for maxillary sinus procedure
- Used at low speed for autogenous bone collection
- Used with a stopper for safe lifting
- Final drill diameter selected based on the bone quality
- Recommended speed : 400~800rpm
- 4 type drills of Ø3.3 and Ø3.6 sold separately
  (OCD3307WC, OCD3310WC, OCD3607WC, OCD3610WC)

Regular Hole (Ø5.1)

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

Wide Hole (Ø5.8)

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

OneCAS KIT Surgical Instruments

OneCAS Stopper

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

Regular Hole (Ø5.1)

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

Wide Hole (Ø5.8)

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

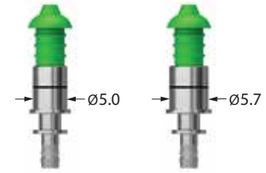
Depth Gauge

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

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

Hydraulic Membrane Lifter NEW 2020

- Dedicated maxillary sinus hydraulic lifting instrument for OneCAS KIT
- Hydraulic pressure is used to separate and lift the sinus membrane
- Used by placing the body until the marking line meets the upper surface of OneGuide hole
- Winged design with optimized sealing for flapless procedure

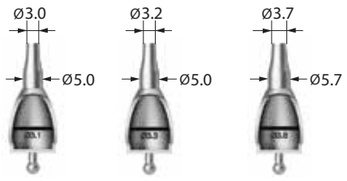


Regular Hole (Ø5.1) Wide Hole (Ø5.8)

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

Bone Carrier Head NEW 2020

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



Regular Hole (Ø5.1) Wide Hole (Ø5.8)

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

Bone Carrier NEW 2020

- Dedicated maxillary sinus filling instrument for OneCAS KIT
- Mounting the head by fastening the handle in the back of the body
- Replaceable head for use

OCBCS30

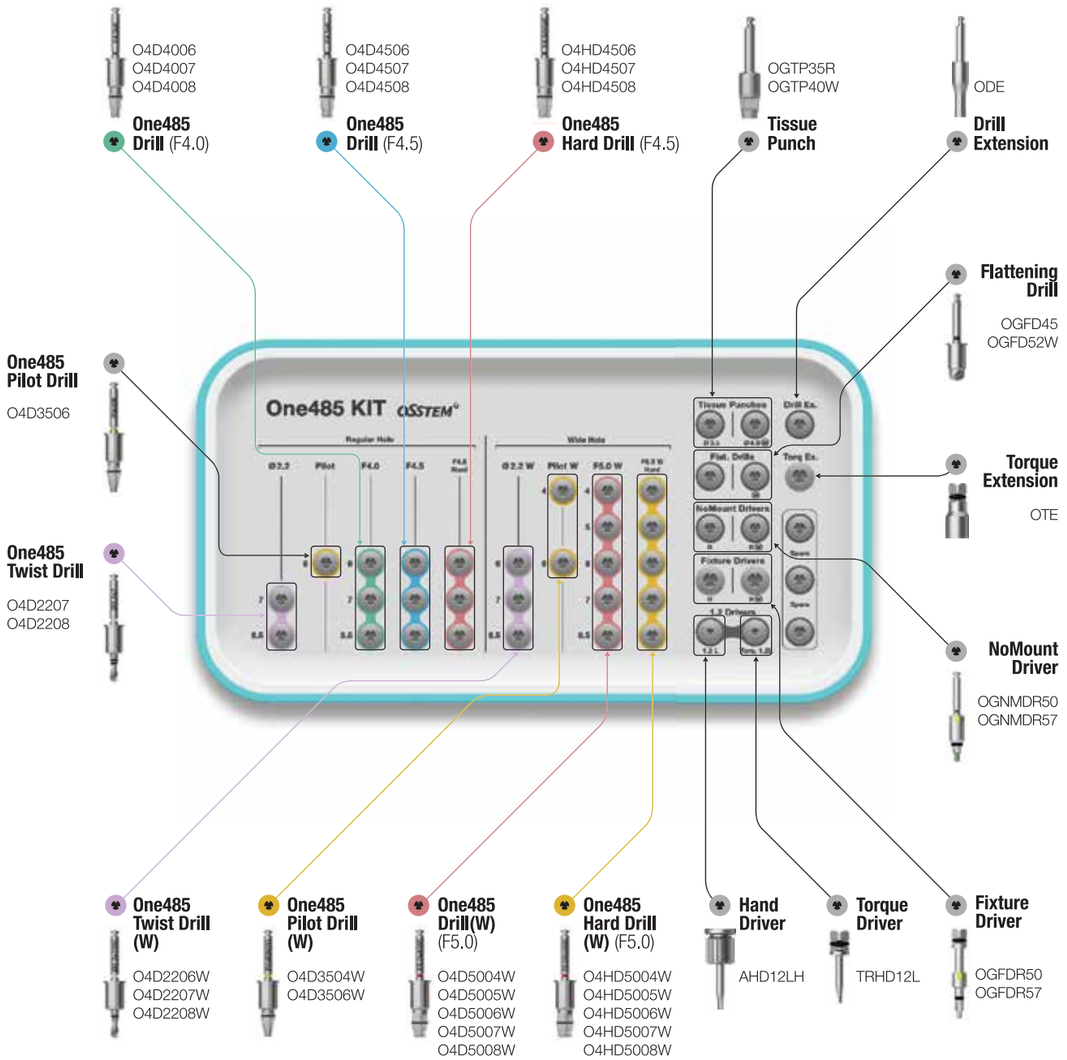
One485 KIT (OO485K) NEW 2020

For TSIII SSIII USIII KSIII

Top panel components

Torque Wrench
TW30B

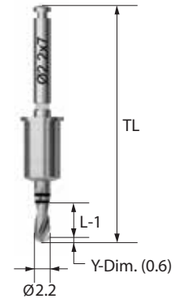
Depth Gauge
OSDG



One485 KIT Surgical Instruments

One485 Twist Drill

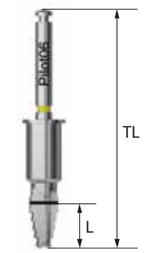
- Initial Drill for determining the placement position and ensuring the guide depth for other drills
- Drilling with a straight blade up to -1mm of the fixture placement depth
- 5 types according to the OneGuide hole diameter
  - Regular hole (Ø5.1) / Wide hole (Ø5.8)
- F4.0/4.5 6mm (extra short implant) type are used 7mm drill
  - Bottom marking line : 6mm, Top line : 7mm
- F5.0 4mm, 5mm (extra short implant) type are used 6mm drill
  - Bottom marking line : 4mm, Midline : 5mm, Top line : 6mm
- Recommended speed : 800 or 1,200rpm



L	TL	Regular Hole (Ø5.1) F4.0 / F4.5	Wide Hole (Ø5.8) F5.0
6.0	32.4	-	O4D2206W
7.0	33.2	O4D2207	O4D2207W
8.5	34.7	O4D2208	O4D2208W

One485 Pilot Drill

- Medium drill for expanding hole diameter
- Tip blade in the shape of 485 Drill, and the side blade in the shape of tapered drill
- 3 types according to the OneGuide hole diameter
  - Regular hole (Ø5.1) / Wide hole (Ø5.8)
- 4mm drill used for 4-5mm Fixtures, and 6mm drill used for 6~8.5mm Fixtures
- Recommended speed : 800 or 1,200rpm



L	TL	Regular Hole (Ø5.1) F4.5	TL	Wide Hole (Ø5.8) F5.0W
4.0	-	-	33.1	O4D3504W
6.0	33.9	O4D3506	32.9	O4D3506W

One485 KIT Surgical Instruments

One485 Drill

- Final drill for final expansion and placement torque optimization
- Tip blade in the shape of 485 Drill, and the side blade in the shape of tapered drill
- 19 types according to the OneGuide hole diameter
  - Regular hole (Ø5.1) / Wide hole (Ø5.8)
- F4.5 and F5.0 hard drill used for placing F4.5 and F5.0 Fixtures in hard bone
- Recommended speed : 800 or 1,200rpm

Regular Hole (Ø5.1)

L	TL	F4.0	F4.5	F4.5 Hard
6.0	33.9	O4D4006	O4D4506	O4HD4506
7.0	33.9	O4D4007	O4D4507	O4HD4507
8.5	35.4	O4D4008	O4D4508	O4HD4508

Wide Hole (Ø5.8)

L	TL	F5.0 (W)	F5.0 (W) Hard
4.0	33.1	O4D5004W	O4HD5004W
5.0	33.1	O4D5005W	O4HD5005W
6.0	32.9	O4D5006W	O4HD5006W
7.0	33.9	O4D5007W	O4HD5007W
8.5	35.4	O4D5008W	O4HD5008W

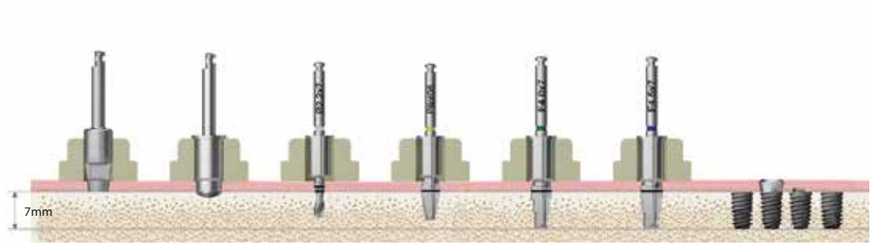
Drilling Sequence

One485 Drill

TSIII | SSIII | USIII | KSIII

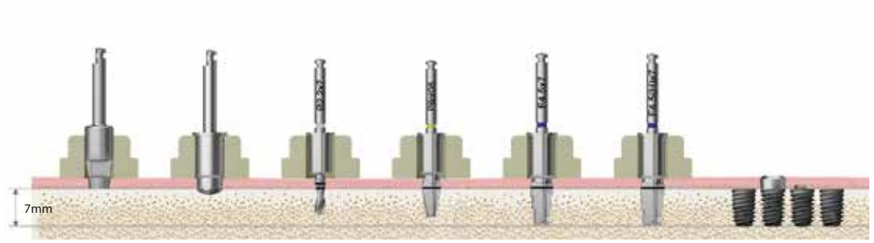
(Length : 7mm)

Ø 4.0



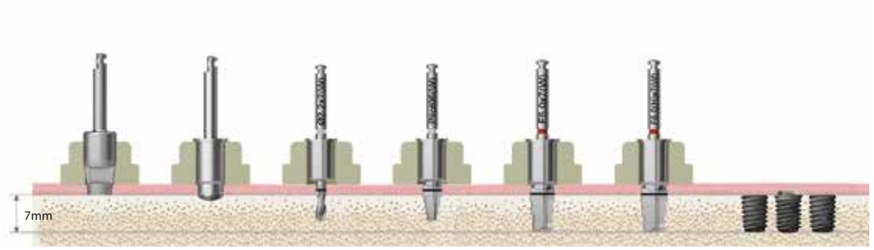
Bone Quality	Tissue Punch	Flattening Drill	Twist Drill	Pilot Drill	Drill (F4.0)	Drill (F4.5)	Fixture
Normal	☒	(☒)	☒	☒	☒		Implant Placement
Hard	☒	(☒)	☒	☒		☒	

Ø 4.5



Bone Quality	Tissue Punch	Flattening Drill	Twist Drill	Pilot Drill	Drill (F4.5)	Hard Drill (F4.5)	Fixture
Normal	☒	(☒)	☒	☒	☒		Implant Placement
Hard	☒	(☒)	☒	☒		☒	

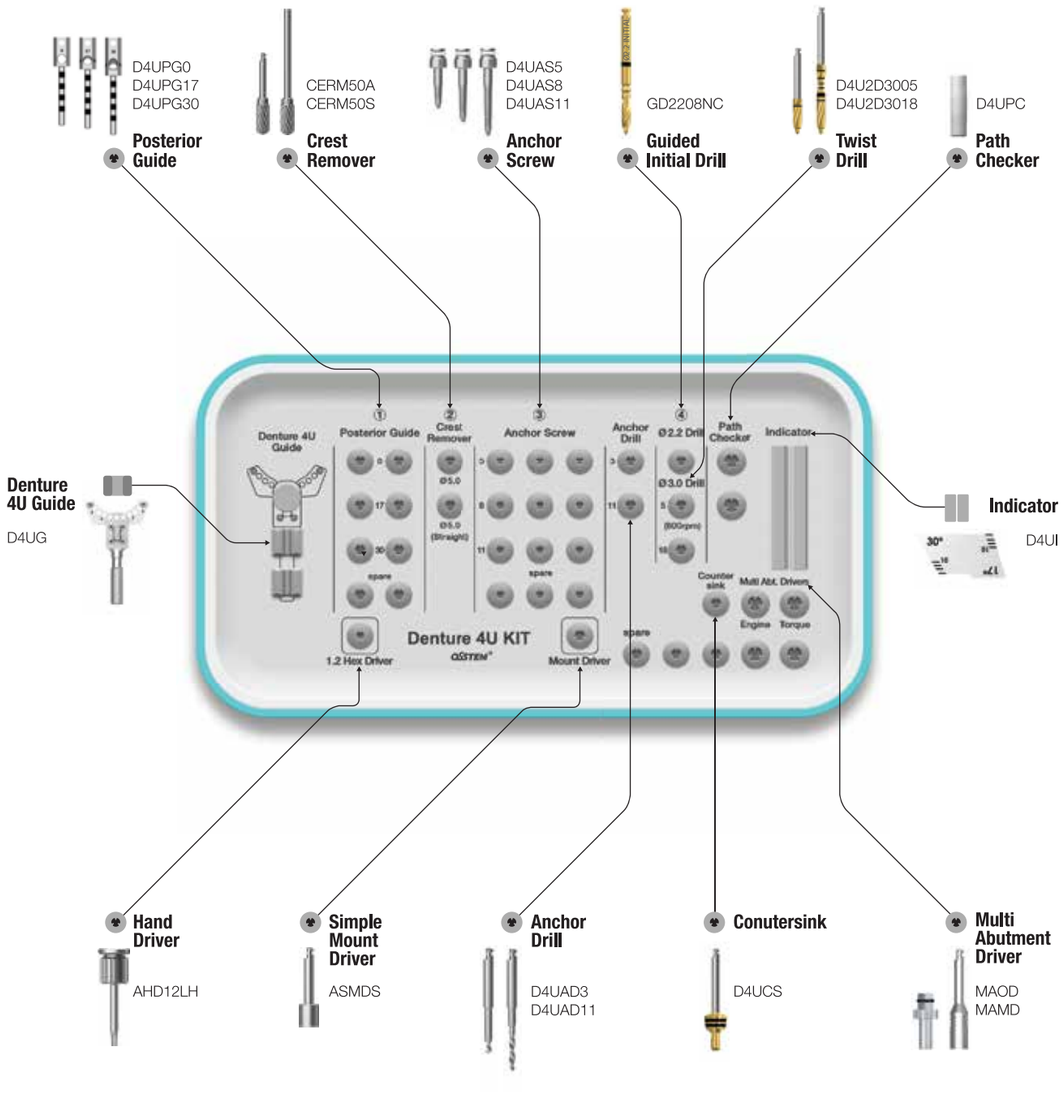
Ø 5.0



Bone Quality	Tissue Punch (W)	Flattening Drill (W)	Twist Drill (W)	Pilot Drill (W)	Drill (W) (F5.0)	Hard Drill (W) (F5.0)	Fixture
Normal	☒	(☒)	☒	☒	☒		Implant Placement
Hard	☒	(☒)	☒	☒		☒	

Denture 4U KIT (OD4UK) NEW 2020

For TSII / III USII / III



Denture 4U KIT Surgical Instruments

Denture 4U Guide

- Guide for stable and accurate initial and intermediate drilling for Denture 4U procedure
- Anterior guide : drilling positioning for Ø2.2 in anterior region (tooth number 2 and 3 positions marked)
- Posterior guide : drilling positioning for Ø3.0 drill in posterior region
  ※ Used by assembling with the posterior guide of desired angle
- Removable Denture 4U Guide handle

D4UG

Posterior Guide

- Used by assembling the anterior guide prior to procedure
  ※ Assembled with the angle marking side shown
- Adjusting the fixture placement position in posterior region and buccolingual inclination angle
- Selecting the angle of the posterior guide through CT scan recommended prior to procedure
  ※ Replaceable during procedure
- Drilling by slowly entering the guide hole, referring to the marking line on the side of the posterior guide hole
- Drilling depth adjusted by drilling to the bottom marking line in the mesial direction
- Marking line spacing on the rod : 2mm

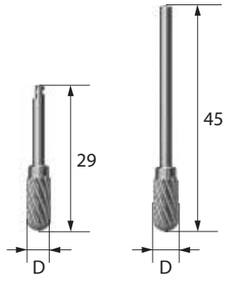
Degree	0°	17°	30°
	D4UPG0	D4UPG17	D4UPG30

Marking Bottom Line, Check Mesial Direction

Crest Remover

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

L	D	Ø5.0
29		CERM50A
45		CERM50S



Anchor Screw

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

L \ D	Ø1.65
5	D4UAS5
8	D4UAS8
11	D4UAS11

Anchor Drill

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

L \ D	Ø1.65
3	D4UAD3
11	D4UAD11

Guided Initial Drill

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

L \ D	Ø2.2
5	GD2208NC

Twist Drill

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

L \ D	Ø3.0
5	D4U2D3005
18	D4U2D3018

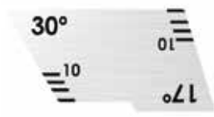
Countersink

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

D4UCS

Indicator

- Checking the location of the mental foramen, and the placement direction and length of the fixture beforehand for stable procedure
  ※ For checking the location of the mental foramen by opening a flap completely



D4UI

Path Checker

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

D4UPC

Simple Mount Driver

- Used for placing an Anchor Screw to stably fix the Denture 4U Guide in place

L	
Short	ASMDS

Multi Abutment Machine Driver

- Dedicated Machine Driver for a Multi Abutment

MAMD

Multi Abutment Outer Driver

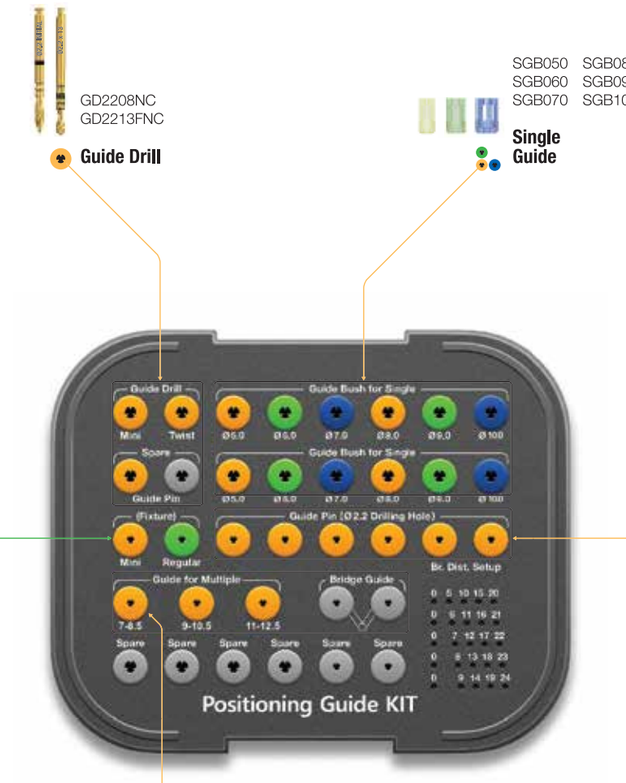
- Dedicated Torque Driver for a Multi Abutment

MAOD

Positioning Guide KIT (OPGPK) 07.2015

GD2208NC
GD2213FNC
Guide Drill

SGB050 SGB080
SGB060 SGB090
SGB070 SGB100
Single Guide



Guide Pin
(Fixture)

PGSPM
PGSPR

Guide Pin

PGSP22

Bridge Guide
(Fan Type)

PGBRA070
PGBRA090
PGBRA110

Positioning Guide Full KIT (OPGAK) 07.2015

Lower panel components

Multi Joint Handle Option
MJH

L-Wrench Option
LWC20H

Denture Guide Option
PGODA

GD2208NC
GD2213FNC
Guide Drill

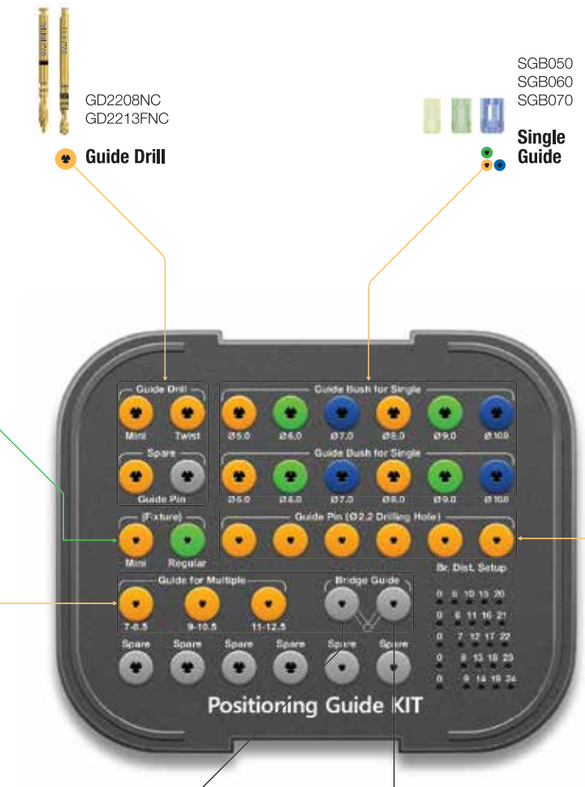
SGB050 SGB080
SGB060 SGB090
SGB070 SGB100
Single Guide

Guide Pin
(Fixture)

PGSPM
PGSPR

Bridge Guide
(Fan Type)

PGBRA070
PGBRA090
PGBRA110



Guide Pin

PGSP22

Bridge Guide
(Compass Type)

PGBPA

Distance setup Pin

PGDSP

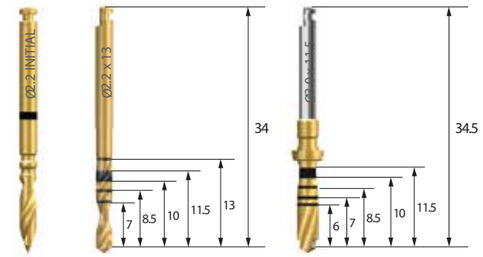
Positioning Guide KIT

Surgical Instruments

Guide Drill 07.2015

- Initial Drill : For initial drilling, assembled to the single guide to adjust the drilling depth
- Ø2.2 Twist Drill : Used with the bridge guide for initial drilling
- Ø3.0 Twist Drill : For subsequent drilling of Ø2.2 Twist Drill, drilling path guide

D	Ø2.2	Ø3.0
Initial Drill	GD2208NC	-
Twist Drill	GD2213FNC	2D3011LC01



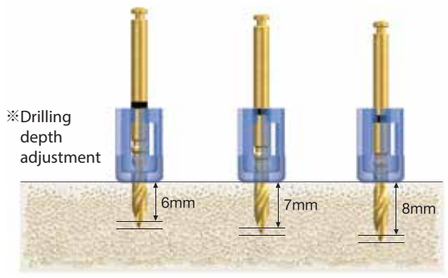
Initial Drill | Ø2.2 Twist Drill | Ø3.0 Twist Drill

Single Guide 07.2015

- Transparent material applied to facilitate the viewing of the position and direction for drilling
- 6 types considering mesio-distal crown diameters (Ø5.0~10.0)
- Packing unit : 2ea

※ Drilling depth adjusted to 6, 7 or 8mm using the marking line of the Initial Drill, based on the top line of the single guide

※ Disposable, Do not reuse



F5.0	F6.0	F7.0	F8.0	F9.0	F10.0
SGB050	SGB060	SGB070	SGB080	SGB090	SGB100

Guide Pin (Fixture) 07.2015

- Pin for checking the path and fixing the single guide in place after placing a fixture
- C = Connection

Mini	Regular
PGSPM	PGSPR

Mini | Regular

Guide Pin 07.2015

- Pin for checking the drilling path and fixing the single guide in place

PGSP22

Bridge Guide 07.2015

- Guide for adjusting the direction and distance for drilling
- Fan type : Selectable in 0.5mm increments (7~12.5mm)
- Compass type : Adjustable in 1 mm increments (5~24mm)
- Used after adjusting the distance in the distance setup of the mid panel of KIT

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 07.2015

- Instrument to place the guide from the outside of the oral cavity by connecting to the ball head of the bridge guide

MJH

Denture Guide Option 07.2015

- Guide with adjustable angle for each patient in edentulous case
- Drilling in the oral cavity with the angle fixed with an L-wrench in working model model after adjusting the angle according to the arch shape of the patient
- Marking line refers to the No. 2,3,4,5,6 positions from the center

PGODA

Positioning Guide KIT

Surgical Instruments

L-wrench

Option 07.2015

- Instrument to adjust the size of the denture guide and keep it in place

LWC20H

Distance Setup Pin

Option 07.2015

- Pin for bridge guide compass type and denture guide fixation

PGDSP

SmartGuide KIT (OSGK) 12.2015

Lower panel components

Guide Pin (4ea)
SGP22

Round bur (2ea)
RAHM1018

Twist Drill (2ea) (Ø2.2) for stone models
2D2208LC01

SGCB30S

X Sleeve
(4ea)

Twist Drill
(Ø2.2)
SGTD2207S

Twist Drill
(Ø3.0)
QGTD3008

SmartGuide KIT Surgical Instruments

SmartGuide 12.2015

- Thermoplastic surgical guide
- Freely deformable after immersion in about 70℃ water for about 1 minute
- Curing at room temperature after 1 minute from deformation

※ Disposable, Do not reuse, Use after low temperature disinfection (Do not autoclave or hydrogen peroxide)

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

Twist Drill 12.2015

- Drill used through the guide in the oral cavity
- Stable drilling by connecting to the SmartGuide sleeve
- After initial drilling with Ø2.2 drill, additional drilling with Ø3.0 drill
- Recommended speed : 1,200~1,500rpm

D	Ø2.2	Ø3.0
	SGTD2207S	QGTD3008

X Sleeve 12.2015

- Instrument to check if th guide is produced as intended through CT scan or x-ray by connecting to the SmartGuide sleeve
- After connecting to the SmartGuide outside the oral cavity, assemble in the oral cavity

SGCB30S

Twist Drill (Ø2.2) For stone models 12.2015

- Used for initial marking on the working model
- Use cycle : 10 times
- Additional drilling after using the round bur
- Recommended speed : 1,200~1,500rpm

D	Ø2.2
	2D2208LC01

Guide Pin 12.2015

- Assembled to the working model for fixing the SmartGuide in place
- Connected to the SmartGuide sleeve

SGP22

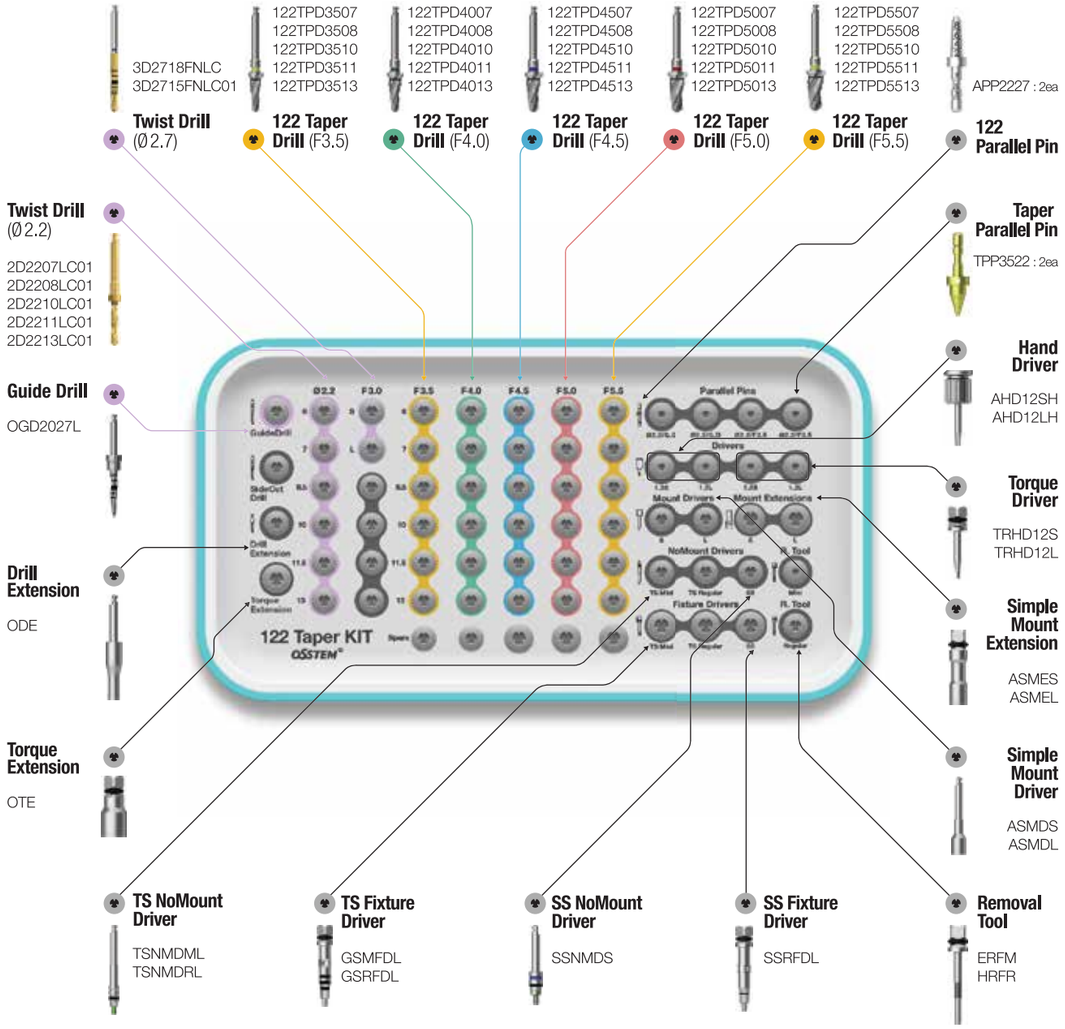
122 Taper KIT (0122TPK) 09.2016

For TSIII / IV | SSIII | USIII / IV | KSIII

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



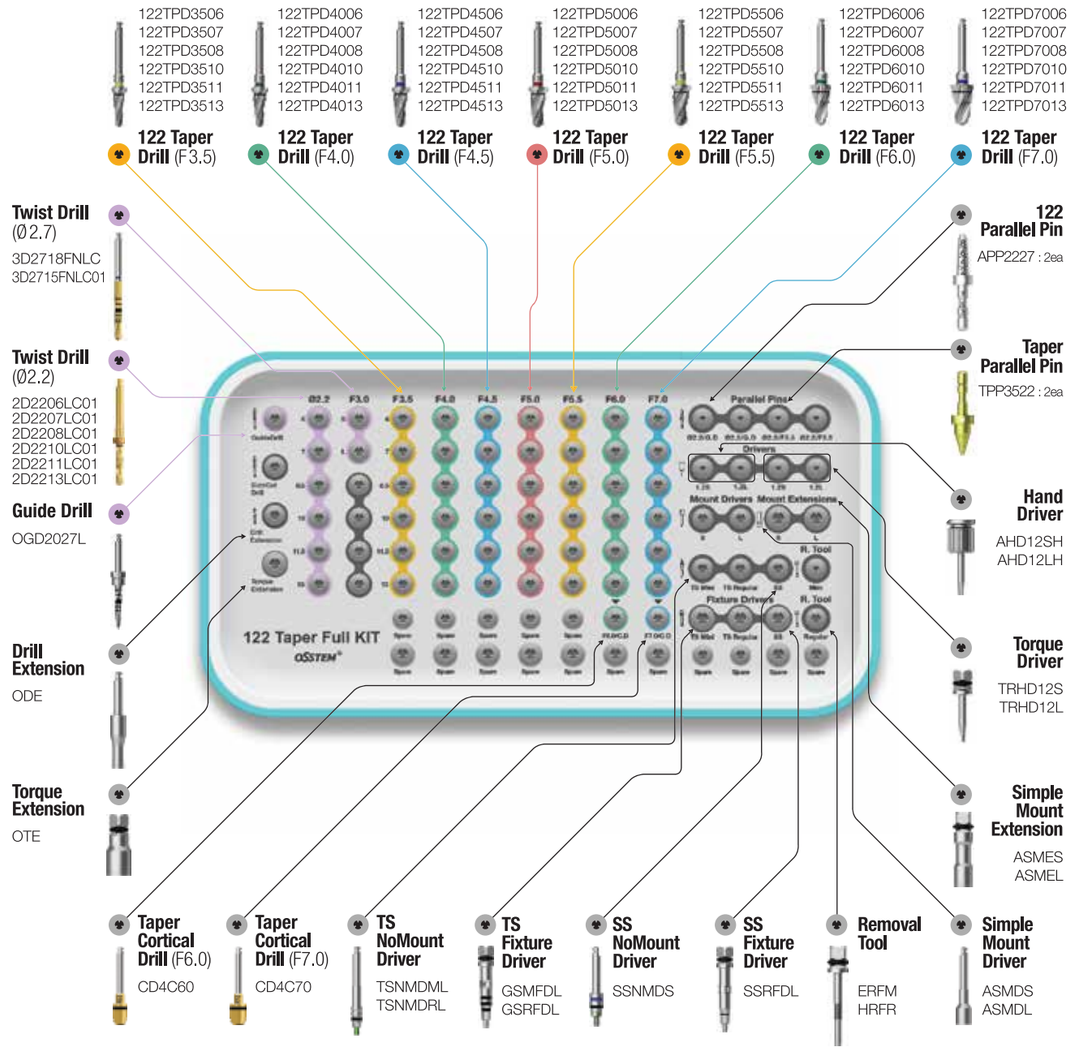
122 Taper Full KIT (0122TPFK) 01.2018

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

Top panel components

Torque Wrench
TW30B

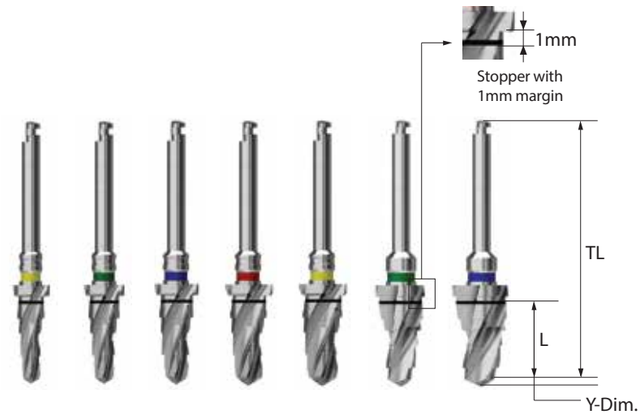
Depth Gauge
OSDG



122 Taper KIT Surgical Instruments

122 Taper Drill

- Dedicated Taper Drill for Taper (III type) Fixture
- Types available for each diameter and length
- Color coded handle indicating the fixture diameter
- Drill slightly larger in diameter used for removing cortical bone from hard bone
- Included in 122 Taper KIT only (not included in 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 (Ultra-wide) 01.2009

- Drill used for removing cortical bone from hard bone (for Ultra-wide)
- Dedicated drill for each fixture diameter
- Drilling up to the lower marking line recommended
- F = Fixture

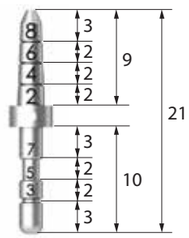
F6.0	F7.0
CD4C60	CD4C70

Parallel Pin (122 Taper Drill)

- Dedicated Parallel Pin for 122 Taper Drill
- Used for checking the position and direction of bone preparation
- Bottom part for Ø2.2 drill, and top part for guide drill
- Included in 122 Taper KIT only (not included in Taper KIT)
- Other components same as Taper KIT

APP2227

※ Refer to surgical instruments for other components (from p142)



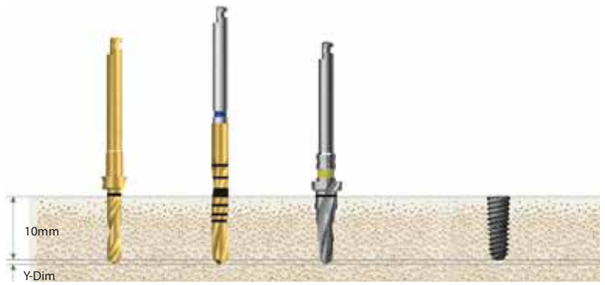
Drilling Sequence 122 Taper Drill

TSIII | SSIII | USIII | KSIII

(Length : 10mm)

F5.5 Taper Cortical Drill marking bottom line for 6mm Fixtures, midline for 7mm Fixtures, top line for 8.5mm or greater Fixtures
Recommended placement torque ≤ 40Ncm
TS Fixture placed to a depth 1mm deeper than the bone level for normal bone, and to the bone level for soft bone to maintain fixation stability

Ø 3.0mm

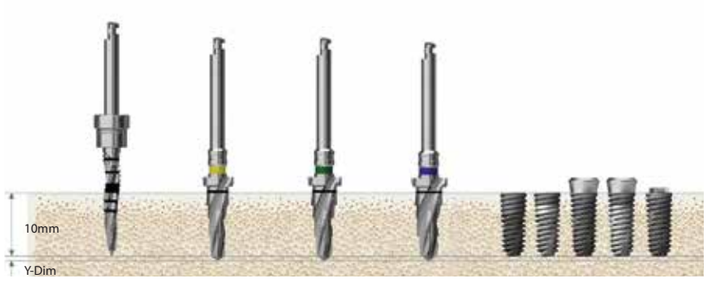


Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø2.7)	122 Taper Drill (F3.5)	Ø3.0 Fixture
Soft	☒			Implant Placement
Normal	☒	☒		
Hard	☒		☒	

Ø 3.5mm

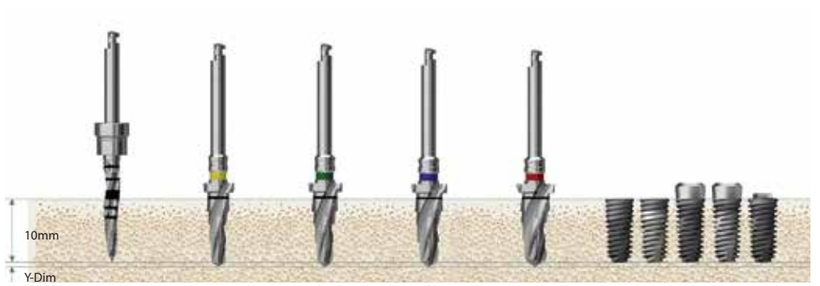
Bone Quality	Guide Drill	122 Taper Drill (F3.5)	122 Taper Drill (F4.0)	Ø3.5 Fixture
Soft	☒			Implant Placement
Normal	☒	☒		
Hard	☒	☒	☒	

Ø 4.0mm



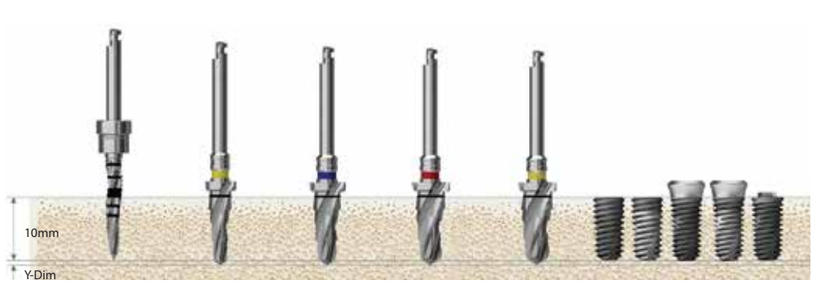
Bone Quality	Guide Drill	122 Taper Drill (F3.5)	122 Taper Drill (F4.0)	122 Taper Drill (F4.5)	Ø4.0 Fixture
Soft	☒	☒			Implant Placement
Normal	☒	☒	☒		
Hard	☒	☒		☒	

Ø 4.5mm



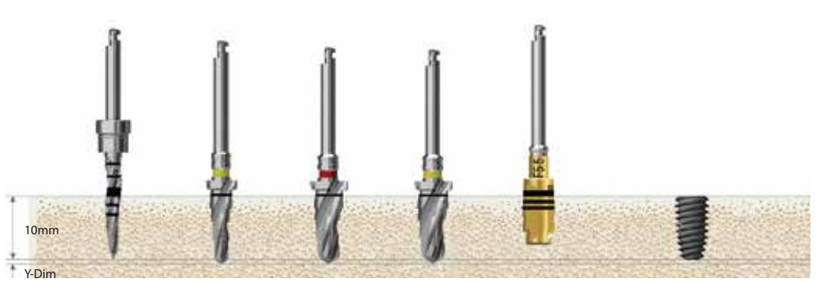
Bone Quality	Guide Drill	122 Taper Drill (F3.5)	122 Taper Drill (F4.0)	122 Taper Drill (F4.5)	122 Taper Drill (F5.0)	Ø4.5 Fixture
Soft	☒		☒			Implant Placement
Normal	☒	☒		☒		
Hard	☒	☒			☒	

Ø 5.0mm



Bone Quality	Guide Drill	122 Taper Drill (F3.5)	122 Taper Drill (F4.5)	122 Taper Drill (F5.0)	122 Taper Drill (F5.5)	Ø5.0 Fixture
Soft	☒		☒			Implant Placement
Normal	☒	☒		☒		
Hard	☒	☒			☒	

Ø 5.5mm



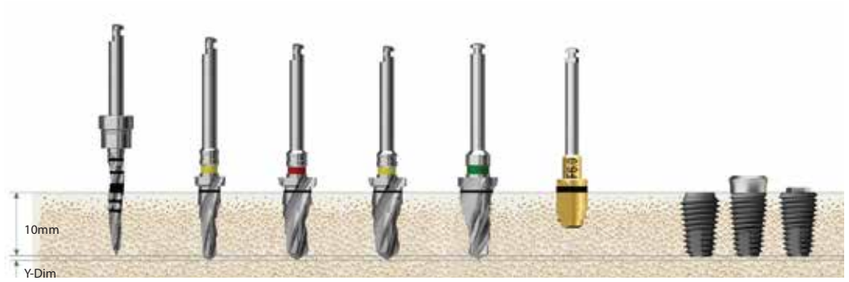
Bone Quality	Guide Drill	122 Taper Drill (F3.5)	122 Taper Drill (F5.0)	122 Taper Drill (F5.5)	Taper Cortical Drill (F5.5)	Ø5.5 Fixture
Soft	☒		☒			Implant Placement
Normal	☒	☒		☒		
Hard	☒	☒		☒	☒	

Drilling Sequence 122 Taper Drill

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

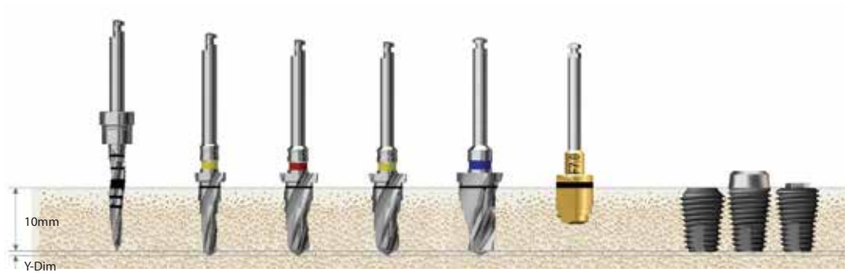
(Length : 10mm)

Ø 6.0mm



Bone Quality	Guide Drill	122 Taper Drill (F3.5)	122 Taper Drill (F5.0)	122 Taper Drill (F5.5)	122 Taper Drill (F6.0)	Taper Cortical Drill (F6.0)	Ø6.0 Fixture
Soft	☒		☒	☒			Implant Placement
Normal	☒	☒	☒		☒		
Hard	☒	☒	☒		☒	☒	

Ø 7.0mm



Bone Quality	Guide Drill	122 Taper Drill (F3.5)	122 Taper Drill (F5.0)	122 Taper Drill (F6.0)	122 Taper Drill (F7.0)	Taper Cortical Drill (F7.0)	Ø7.0 Fixture
Soft	☒		☒	☒			Implant Placement
Normal	☒	☒	☒		☒		
Hard	☒	☒	☒		☒	☒	

F5.5 Taper Cortical Drill marking bottom line for 6mm Fixtures, midline for 7mm Fixtures, top line for 8.5mm or greater Fixtures

Recommended placement torque ≤ 40Ncm

TS Fixture placed to a depth 1mm deeper than the bone level for normal bone, and to the bone level for soft bone to maintain fixation stability

Drilling Sequence 122 Taper Drill

TSIV | USIV

(Length : 10mm)

Ø 4.0mm

Bone Quality	Twist Drill (Ø2.2)	122 Taper Drill (F3.5)	Ø4.0 Fixture
D4	☒		Implant Placement
Soft	☒	☒	

Ø 4.5mm

Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø3.0)	122 Taper Drill (F4.0)	Ø4.5 Fixture
D4		☒		Implant Placement
Soft	☒		☒	

Ø 5.0mm

Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø3.0)	122 Taper Drill (F4.5)	Ø5.0 Fixture
D4		☒		Implant Placement
Soft	☒		☒	

Drilling Sequence 122 Taper Drill

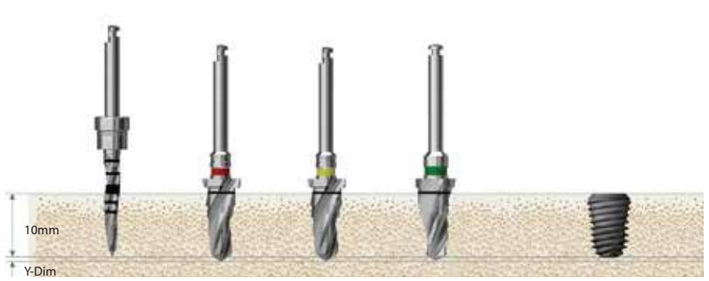
TSIV Ultra-wide

(Length : 10mm)

Ø 6.0mm

Bone Quality	Guide Drill	122 Taper Drill (F5.0)	122 Taper Drill (F5.5)	Ø6.0 Fixture
D4	☒	☒		Implant Placement
Soft	☒	☒	☒	

Ø 7.0mm



Bone Quality	Guide Drill	122 Taper Drill (F5.0)	122 Taper Drill (F5.5)	122 Taper Drill (F6.0)	Ø7.0 Fixture
D4	☒	☒	☒		Implant Placement
Soft	☒	☒	☒	☒	

F5.5 Taper Cortical Drill marking bottom line for 6mm Fixtures, midline for 7mm Fixtures, top line for 8.5mm or greater Fixtures

Recommended placement torque ≤ 40Ncm

TS Fixture placed to a depth 1mm deeper than the bone level for normal bone, and to the bone level for soft bone to maintain fixation stability

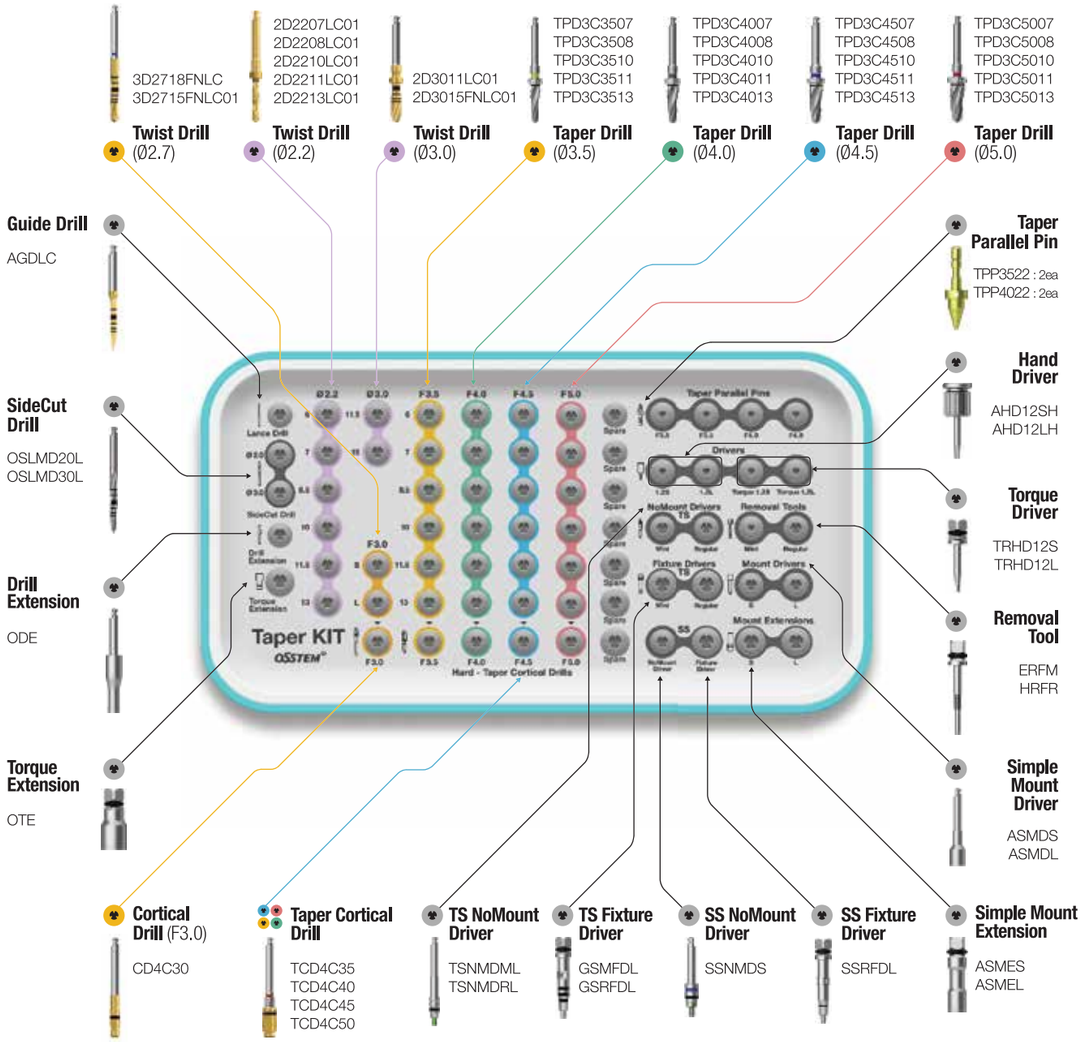
Taper KIT (OTSK) 09.2016

For TSIII / IV | SSIII | USIII / IV | KSIII

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



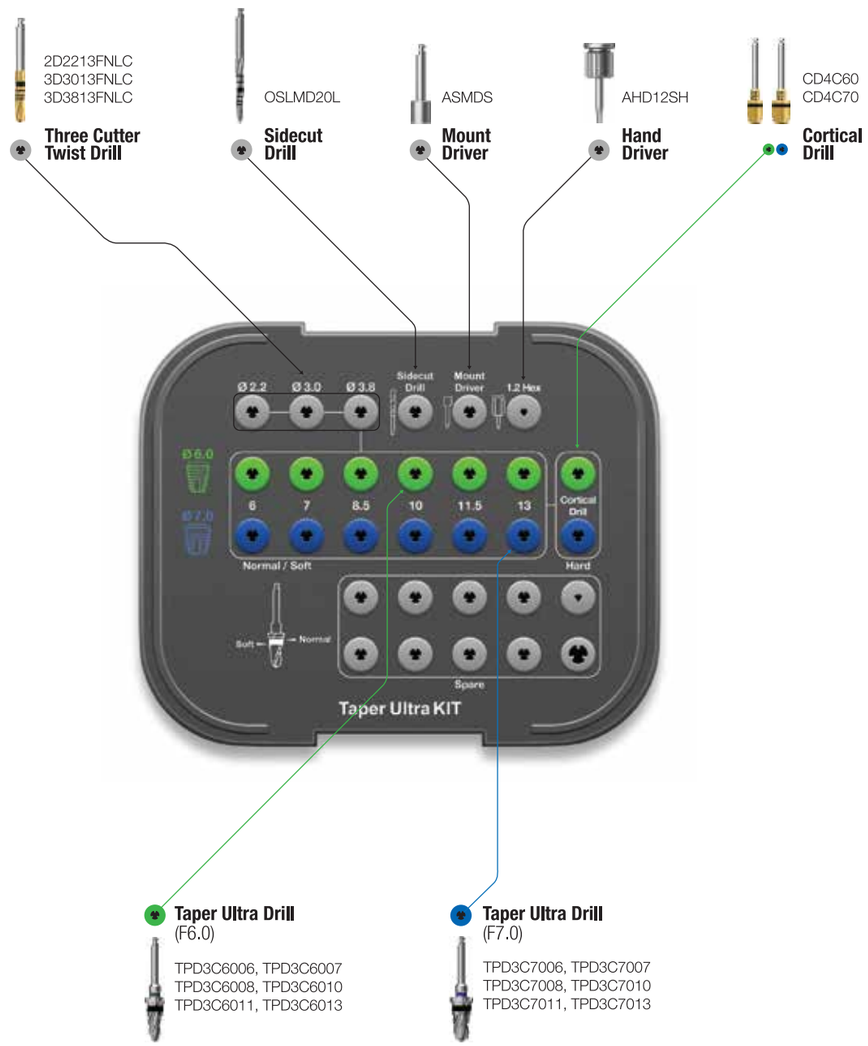
Taper Ultra KIT (HULTPK) 07.2013

For III Ultra-wide

Lower panel components

Open Wrench
SPOW

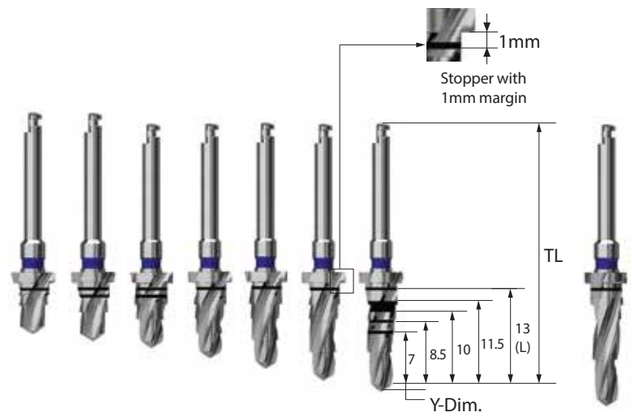
Ratchet Wrench
RCWC



Taper KIT Surgical Instruments

Taper Drill

- Dedicated Taper Drill for Taper(III type) fixtures of each diameter and length
- Stopper Drill with 1mm margin
- Color coded handle indicating the fixture diameter
- F3.5 : Yellow, F4.0 : Green, F4.5 : Blue, F5.0 : Red, F5.5 : Yellow
- Included in Taper KIT only (not included in 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

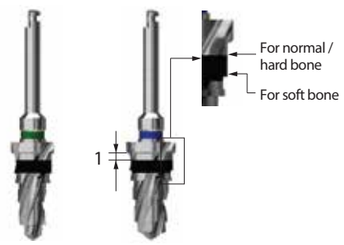
Taper Cortical Drill (Taper Fixture TSIII, SSIII, USIII)

- Drill used for removing cortical bone from hard bone (used right after Taper Drill)
- Dedicated drill for each fixture diameter
- F3.5~5.0 drill marking line : bottom line for placing 8.5mm or smaller Fixtures, and top line for 10mm or greater Fixtures
- F5.5 drill marking line : bottom line for placing 6mm or smaller Fixtures, midline for 7mm Fixtures, and top line for 10mm or greater Fixtures
- Drilling up to the lower marking line recommended
- Included in Taper KIT only (not included in 122 Taper KIT)
- F = Fixture

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

Taper Ultra Drill 09.2013

- Dedicated Taper Drill for Taper Ultra-wide Fixtures of each diameter and length
- Stopper Drill with 1mm margin
- Color coded handle indicating the 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

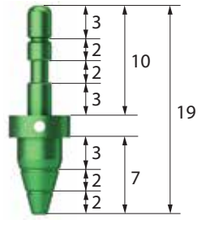
Cortical Drill (Ultra-wide) 01.2009

- Drill used for removing cortical bone from hard bone (for Ultra-wide)
- Dedicated drill for each fixture diameter
- Drilling up to the lower marking line recommended
- F = Fixture

F6.0	F7.0
CD4C60	CD4C70

Parallel Pin (Taper Drill)

- Dedicated Parallel Pin for Taper Drill
- Used for checking the position and direction of bone preparation
- For lower part fixture diameter drill, for upper part Initial Drill
- Color coded according to the fixture diameter (F3.5 : Yellow, F4.0 : Green, F4.5 : Blue, F5.0 : Silver)
- Common component of 122 Taper KIT & Taper KIT

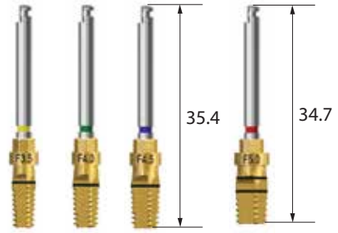


F3.5	F4.0	F4.5	F5.0
TPP3522	TPP4022	TPP4522	TPP5022

Taper KIT Surgical Instruments

Tapered Fixture Tap
(Taper Fixture TSIII, USIII, SSIII SA)

- Dedicated tap for tapered fixture (III type)
- Used for hard bones, forming fixture thread shape
- Torque wrench used after connecting to the engine (25rpm recommended) or a mount extension
- Tapping up to the bottom marking line recommended (F5.0 : Bottom line for placing 7.0mm or smaller Fixtures, and top line for 8.5mm or greater Fixtures)
- F = Fixture



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

※ Refer to surgical instruments for other components (from p142)

Drilling Sequence Taper Drill

TSIII | SSIII | USIII | KSIII

(Length : 10mm)

Taper Cortical Drill marking line: Bottom line for placing 8.5mm or greater Fixtures, and top line for 10mm or greater Fixtures
Recommended placement torque ≤ 40Ncm
TS Fixture placed to a depth 1mm deeper than the bone level for normal bone, and to the bone level for soft bone to maintain fixation stability
For fixture tap used in hard bone, engine (25rpm recommended) is used or Torque Wrench is used after assembling mount extension
(F5.0 Fixture Tap : Bottom line for placing 7.0mm or smaller Fixtures, and top line for 8.5mm or greater Fixtures)

Ø 3.0mm

Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø2.7)	Cortical Drill (F3.0)	Ø3.0 Fixture
Soft	☒			Implant Placement
Normal	☒	☒		
Hard	☒	☒	☒	

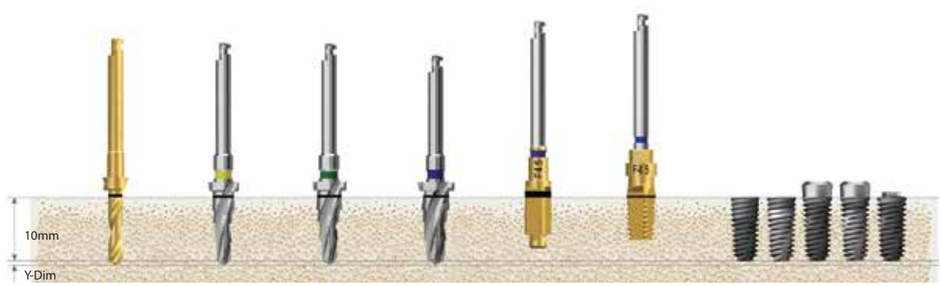
Ø 3.5mm

Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø3.0)	Taper Drill (F3.5)	Taper Cortical Drill (F3.5)	Taper Fixture Tap (F3.5)	Ø3.5 Fixture
Soft	☒	☒				Implant Placement
Normal	☒		☒			
Hard	☒		☒	☒		
Hard (Option)	☒		☒		☒	

Ø 4.0mm

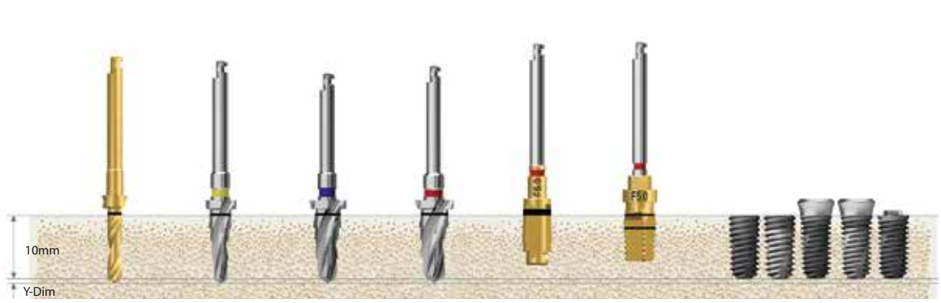
Bone Quality	Twist Drill (Ø2.2)	Taper Drill (F3.5)	Taper Drill (F4.0)	Taper Cortical Drill (F4.0)	Taper Fixture Tap (F4.0)	Ø4.0 Fixture
Soft	☒	☒				Implant Placement
Normal	☒	☒	☒			
Hard	☒	☒	☒	☒		
Hard (Option)	☒	☒	☒		☒	

Ø 4.5mm



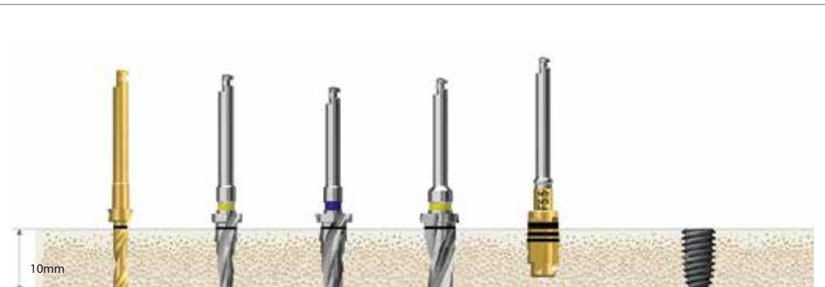
Bone Quality	Twist Drill (Ø2.2)	Taper Drill (F3.5)	Taper Drill (F4.0)	Taper Drill (F4.5)	Taper Cortical Drill (F4.5)	Taper Fixture Tap (F4.5)	Ø4.5 Fixture
Soft	☒	☒	☒				Implant Placement
Normal	☒	☒		☒			
Hard	☒	☒		☒	☒		
Hard (Option)	☒	☒		☒		☒	

Ø 5.0mm



Bone Quality	Twist Drill (Ø2.2)	Taper Drill (F3.5)	Taper Drill (F4.5)	Taper Drill (F5.0)	Taper Cortical Drill (F5.0)	Taper Fixture Tap (F5.0)	Ø5.0 Fixture
Soft	☒	☒	☒				Implant Placement
Normal	☒	☒	☒	☒			
Hard	☒	☒	☒	☒	☒		
Hard (Option)	☒	☒	☒	☒		☒	

Ø 5.5mm



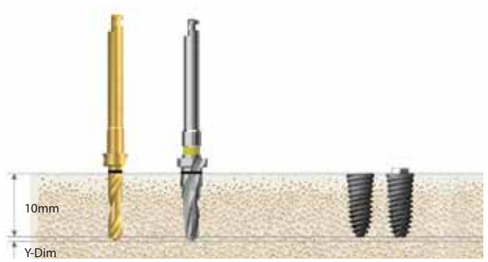
Bone Quality	Twist Drill (Ø2.2)	Taper Drill (F3.5)	Taper Drill (F4.5)	Taper Drill (F5.5)	Taper Fixture Tap (F5.5)	Ø5.5 Fixture
Soft	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒		
Hard	☒	☒	☒	☒	☒	

Drilling Sequence Taper Drill

TSIV | USIV

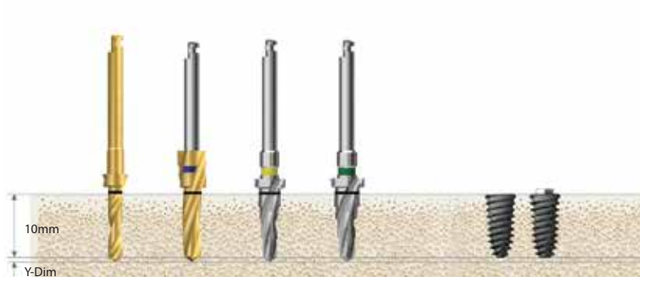
(Length : 10mm)

Ø 4.0mm



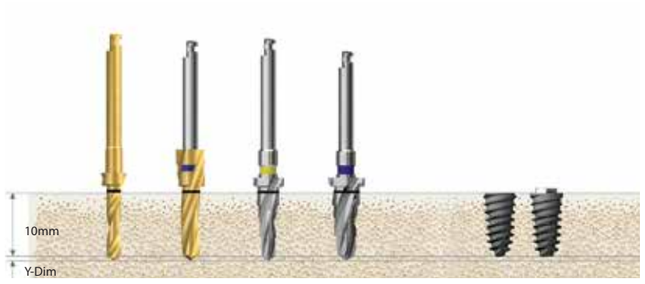
Bone Quality	Twist Drill (Ø2.2)	Taper Drill (F3.5)	Ø4.0 Fixture
D4	☒		Implant Placement
Soft	☒	☒	

Ø 4.5mm



Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø3.0)	Taper Drill (F3.5)	Taper Drill (F4.0)	Ø4.5 Fixture
D4		☒			Implant Placement
Soft	☒		☒	☒	

Ø 5.0mm



Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø3.0)	Taper Drill (F3.5)	Taper Drill (F4.5)	Ø5.0 Fixture
D4		☒			Implant Placement
Soft	☒		☒	☒	

Drilling Sequence Taper Drill

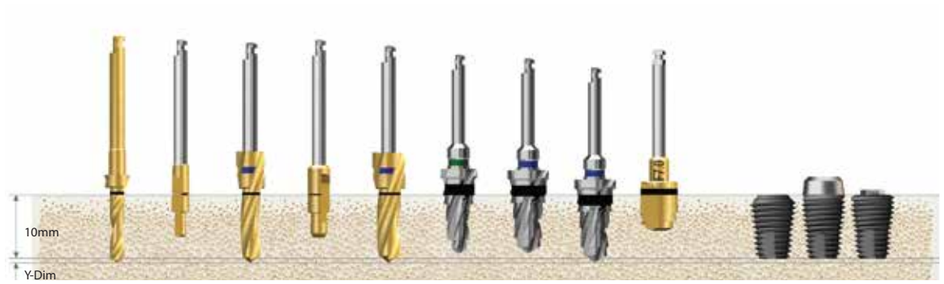
TSIII Ultra-wide | SSIII Ultra-wide | USIII Ultra-wide
KSIII Ultra-wide

(Length : 10mm)

Ø 6.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Taper Drill (F6.0)	Taper Drill (F6.0)	Cortical Drill (F6.0)	Ø6.0 Fixture
Soft	☒	☒	☒	☒		☒			Implant Placement
Normal	☒	☒	☒	☒	☒		☒		
Hard	☒	☒	☒	☒	☒		☒	☒	

Ø 7.0mm



Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Taper Drill (F6.0)	Taper Drill (F7.0)	Taper Drill (F7.0)	Cortical Drill (F7.0)	Ø7.0 Fixture
Soft	☒	☒	☒	☒		☒	☒			Implant Placement
Normal	☒	☒	☒	☒	☒	☒		☒		
Hard	☒	☒	☒	☒	☒	☒		☒	☒	

Recommended placement torque ≤ 40Ncm

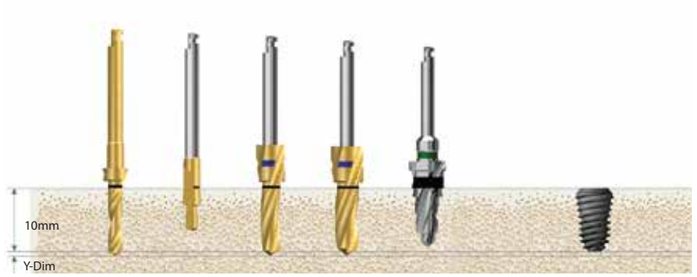
TS Fixture placed to a depth 1mm deeper than the bone level for normal bone/hard bone, and to the bone level for soft bone to maintain fixation stability

Drilling Sequence **Taper Drill**

TSIV Ultra-wide

(Length : 10mm)

Ø 6.0mm



Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Twist Drill (Ø3.8)	Taper Drill (F6.0)	Ø6.0 Fixture
D4	☒			☒		Implant Placement
Soft	☒	☒	☒		☒	

Ø 7.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Twist Drill (Ø3.8)	Taper Drill (F7.0)	Ø7.0 Fixture
D4	☒			☒		Implant Placement
Soft	☒	☒	☒		☒	

Recommended placement torque ≤ 40Ncm

TS Fixture placed to a depth 1mm deeper than the bone level for normal bone/hard bone, and to the bone level for soft bone to maintain fixation stability

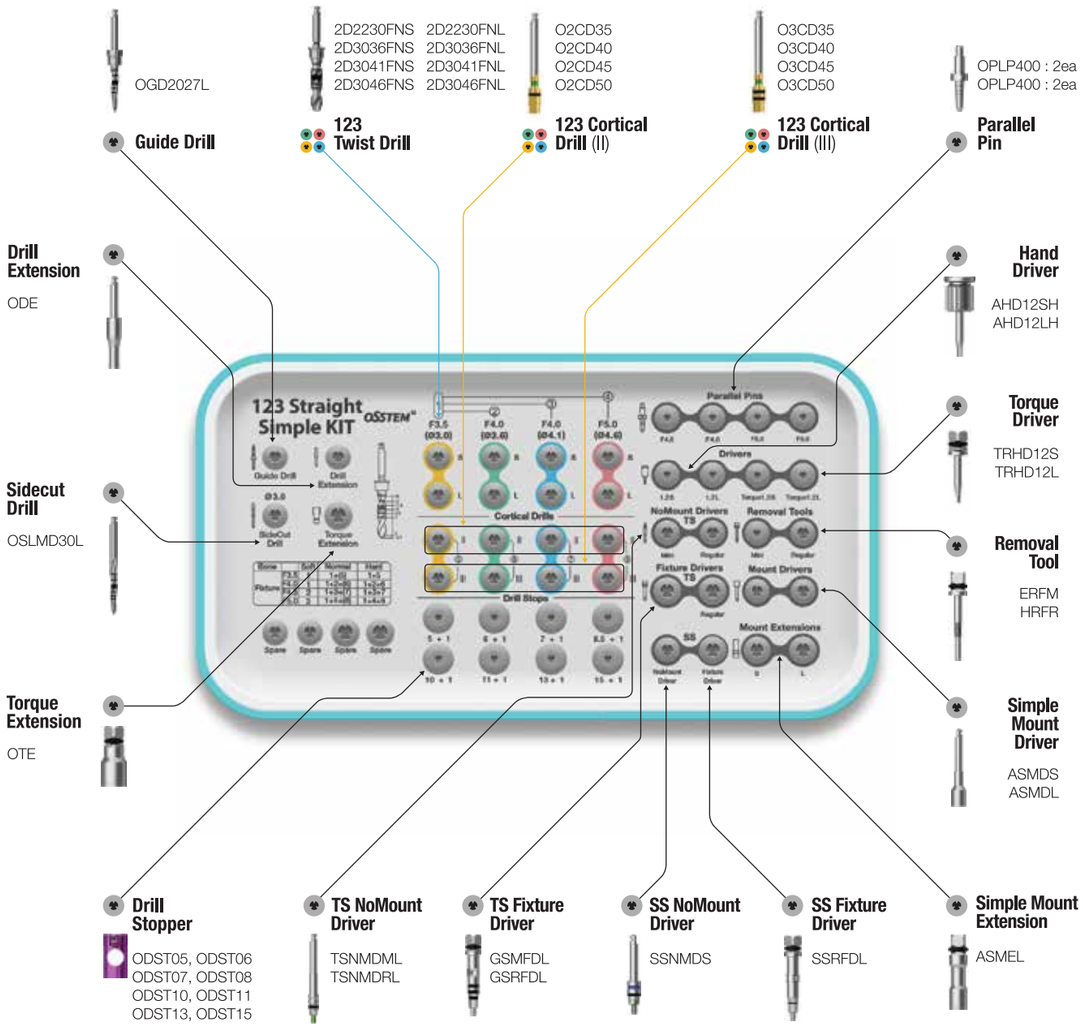
123 Straight Simple KIT (O123K) RENEWAL 2020

For TSII / III SSII / III USII / III KSIII

Top panel components

Torque Wrench
TW30B

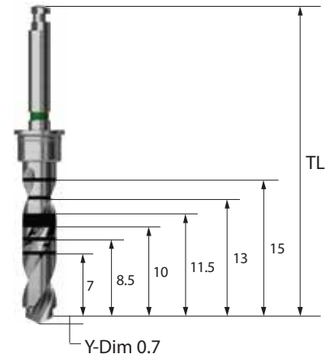
Depth Gauge
OSDG

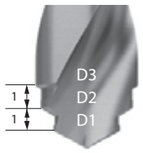


123 Straight Simple KIT Surgical Instruments

123 Twist Drill 03.2012

- Straight Drill to reduce the number of drilling (marking drill)
- Color coded 123 Drill handle indicating the fixture diameter and the main fixture used
- Facilitating drilling depth adjustment by assembling a stopper
- Be sure to use a stopper as it could be difficult to control the depth due to excellent cutting force
- F = Fixture





123 Drill diameter

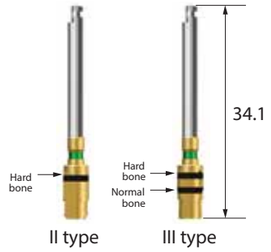
TL	D1 / D2 / D3 F3.5(Ø2.2 / 3.0)	F4.0(Ø3.0 / 3.6)	F4.5(Ø3.0 / 3.6 / 4.1)	F5.0(Ø3.0 / 4.1 / 4.6)
34	2D2230FNS	2D3036FNS	2D3041FNS	2D3046FNS
40.4	2D2230FNL	2D3036FNL	2D3041FNL	2D3046FNL
Color	Yellow	Green	Blue	Red

123 Drill Stopper 03.2012

- Number on the stopper indicating the protruding length of the tip when assembled to a drill or instrument
- Color coded by length for easy estimation of the length and relocation of the KIT

123 Cortical Drill 10.2011

- Drill used for removing cortical bone from hard bone
- Drilling up to the bottom marking line recommended
- II type marking line : for hard bone
- III type marking line : bottom line for normal bone, and top line for hard bone
- IV type marking line : for normal bone
- Color coded handle indicating the fixture diameter and the 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 (from p142)

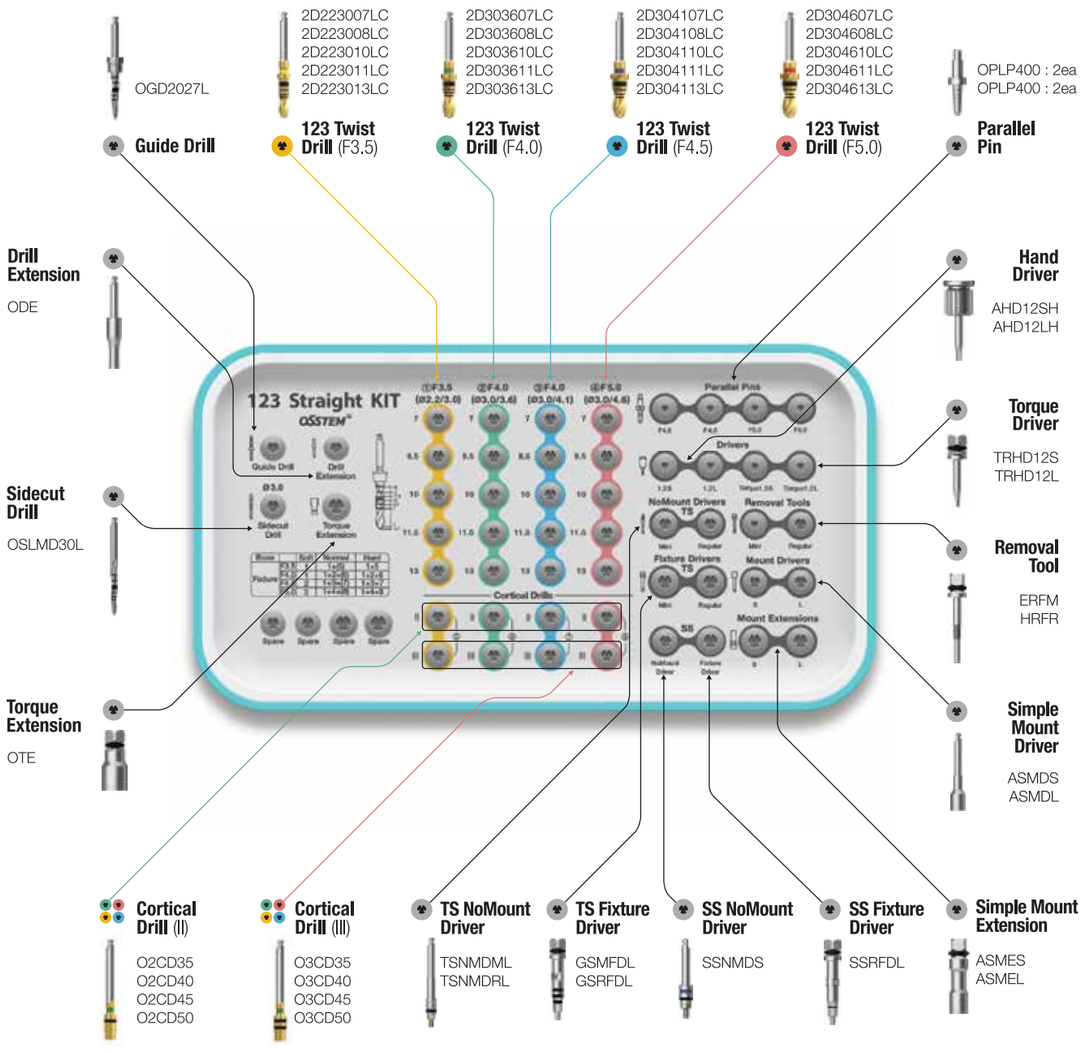
123 Straight KIT (O123FK) RENEWAL 2020

For TSII / III SSII / III USII / III KSIII

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



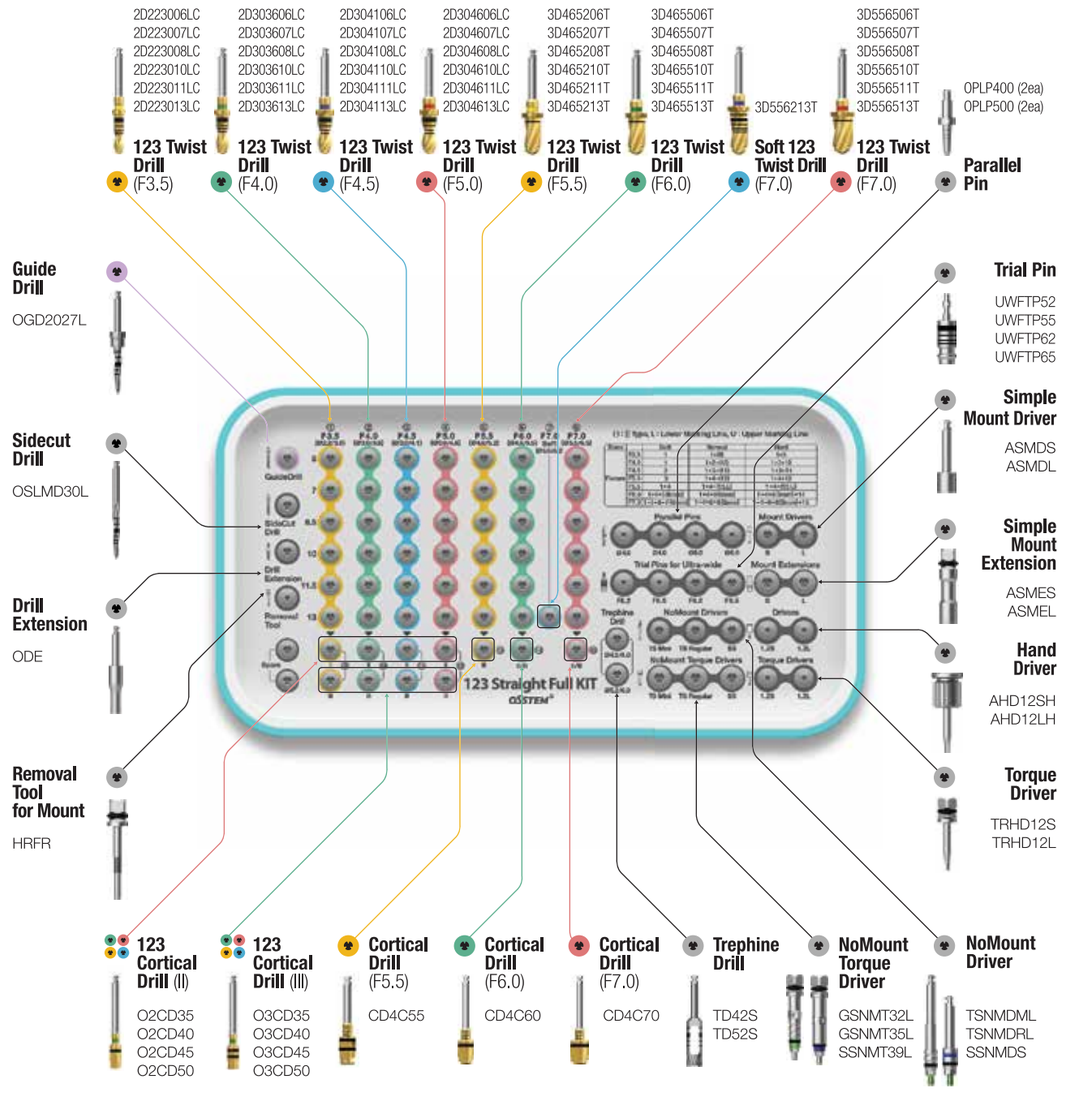
123 Straight Full KIT (O123STFK) 04.2018

For TSII / III SSII / III USII / III KSIII II / III Ultra-wide

Top panel components

Torque Wrench
TW30B

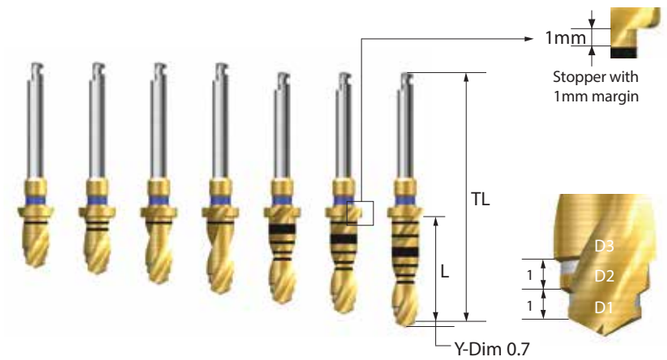
Depth Gauge
OSDG



123 Straight KIT Surgical Instruments

123 Twist Drill (Stopper Drill) 06.2013

- Straight Drill to reduce the number of drilling (with stopper)
- Color coded 123 Drill handle indicating the fixture diameter and the 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	2D2230 06LC	2D3036 06LC	2D3041 06LC	2D3046 06LC
7	31.5	2D2230 07LC	2D3036 07LC	2D3041 07LC	2D3046 07LC
8.5	33	2D2230 08LC	2D3036 08LC	2D3041 08LC	2D3046 08LC
10	34.5	2D2230 10LC	2D3036 10LC	2D3041 10LC	2D3046 10LC
11.5	34.5	2D2230 11LC	2D3036 11LC	2D3041 11LC	2D3046 11LC
13	36	2D2230 13LC	2D3036 13LC	2D3041 13LC	2D3046 13LC
15	38	2D2230 15LC	2D3036 15LC	2D3041 15LC	2D3046 15LC
Color		Yellow	Green	Blue	Red

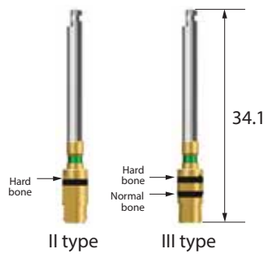
123 Ultra Twist Drill

- 2-stage drill with both Pilot and Twist Drill functions
- Straight Drill to reduce the number of drilling (with stopper)
- Dedicated drill used for F7.0 Fixtures in soft bone
- F = Fixture

L	TL	F5.5 (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	3D4652 06T	3D4655 06T	-	3D5565 06T
7	31.5	3D4652 07T	3D4655 07T	-	3D5565 07T
8.5	33.5	3D4652 08T	3D4655 08T	-	3D5565 08T
10	34.5	3D4652 10T	3D4655 10T	-	3D5565 10T
11.5	34.5	3D4652 11T	3D4655 11T	-	3D5565 11T
13	36.0	3D4652 13T	3D4655 13T	3D5562 13T	3D5565 13T
Color		Yellow	Green	Blue	Red

123 Cortical Drill 10.2011

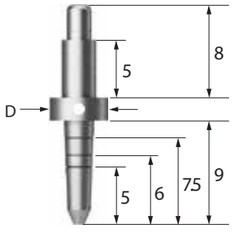
- Drill used for removing cortical bone from hard bone
- Drilling up to the bottom marking line recommended
- II type marking line : for hard bone
- III type marking line : bottom line for normal bone, and top line for hard bone
- IV type marking line : for normal bone
- Color coded handle indicating the fixture diameter and the 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

Parallel Pin (123 Drill) 03.2012

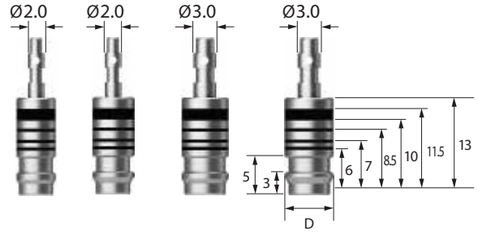
- Dedicated Parallel Pin for 123 Twist Drill
- Used for checking the position and direction of bone preparation
- Bottom part for Initial Drill, and top part for F3.5(Ø2.2/3.0) drill



D	Ø4.0	Ø5.0
	OPLP400	OPLP500

Trial Pin (Ultra-wide) 01.2009

- Checking the width and depth of a fresh extraction socket or failed implant socket
- Checking the drilling after using a Direct Drill as the final drill
- Used as a Parallel Pin



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

※ Refer to surgical instruments for other components (from p142)

Drilling Sequence II Type 123 Twist Drill

TSII | SSII | USII

(Length : 10mm)

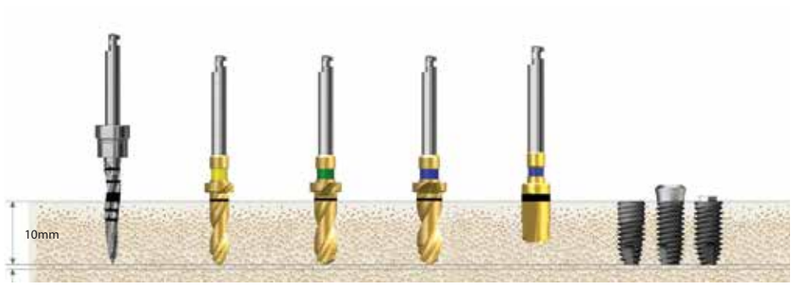
Ø 3.5mm

Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Cortical Drill	Ø3.5 Fixture
Soft	☒	☒		Implant Placement
Normal	☒	☒		
Hard	☒	☒	☒	

Ø 4.0mm

Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/3.6)	Cortical Drill	Ø4.0 Fixture
Soft	☒	☒			Implant Placement
Normal	☒	☒	☒		
Hard	☒	☒	☒	☒	

Ø 4.5mm



Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/3.6)	Twist Drill (Ø3.0/4.1)	Cortical Drill	Ø4.5 Fixture
Soft	☒		☒			Implant Placement
Normal	☒	☒		☒		
Hard	☒	☒		☒	☒	

Ø 5.0mm

Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.1)	Twist Drill (Ø3.0/4.6)	Cortical Drill	Ø5.0 Fixture
Soft	☒		☒			Implant Placement
Normal	☒	☒		☒		
Hard	☒	☒		☒	☒	

Drilling Sequence III Type 123 Twist Drill

TSIII | SSIII | USIII | KSIII

(Length : 10mm)

Ø 3.5mm

Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Cortical Drill (F3.5) Bottom line	Cortical Drill (F3.5) Top line	Ø3.5 Fixture
Soft	☒	☒			Implant Placement
Normal	☒	☒	☒		
Hard	☒	☒		☒	

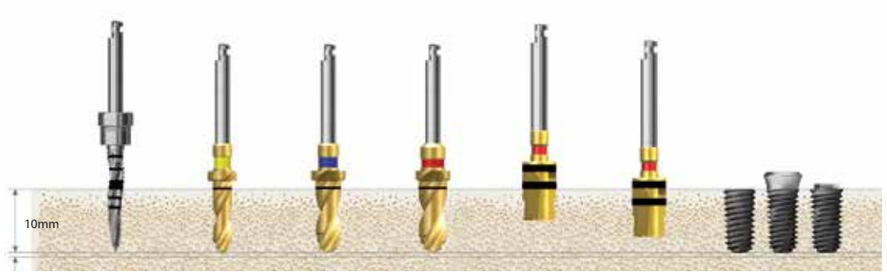
Ø 4.0mm

Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/3.6)	Cortical Drill (F4.0) Bottom line	Cortical Drill (F4.0) Top line	Ø4.0 Fixture
Soft	☒	☒				Implant Placement
Normal	☒	☒	☒	☒		
Hard	☒	☒	☒		☒	

Ø 4.5mm

Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/3.6)	Twist Drill (Ø3.0/4.1)	Cortical Drill (F4.5) Bottom line	Cortical Drill (F5.0) Top line	Ø4.5 Fixture
Soft	☒		☒				Implant Placement
Normal	☒	☒		☒	☒		
Hard	☒	☒		☒		☒	

Ø 5.0mm



Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.1)	Twist Drill (Ø3.0/4.6)	Cortical Drill (F5.0) Bottom line	Cortical Drill (F5.0) Top line	Ø5.0 Fixture
Soft	☒		☒				Implant Placement
Normal	☒	☒		☒	☒		
Hard	☒	☒		☒		☒	

Ø 5.5mm

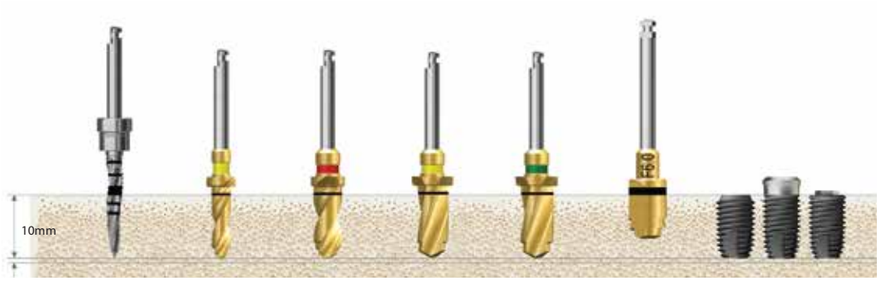
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.6)	Cortical Drill (F5.5) Bottom line	Cortical Drill (F5.5) Top line	Ø5.5 Fixture
Soft	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒		
Hard	☒	☒	☒		☒	

Drilling Sequence Ultra-wide 123 Twist Drill

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

(Length : 10mm)

Ø 6.0mm



Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.6)	Twist Drill (Ø4.6/5.2)	Twist Drill (Ø4.6/5.5)	Cortical Drill (F6.0)	Ø6.0 Fixture
Soft	☒	☒	☒	☒			Implant Placement
Normal	☒	☒	☒		☒		
Hard	☒	☒	☒		☒	☒	

Ø 7.0mm

Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.6)	Twist Drill (Ø4.6/5.5)	Twist Drill (Ø4.6/5.5) (F7.0 Soft)	Twist Drill (Ø5.5/6.5)	Cortical Drill (F7.0)	Ø7.0 Fixture
Soft	☒	☒	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒		☒		
Hard	☒	☒	☒	☒		☒	☒	

Drilling Sequence Ultra-wide 123 Twist Drill

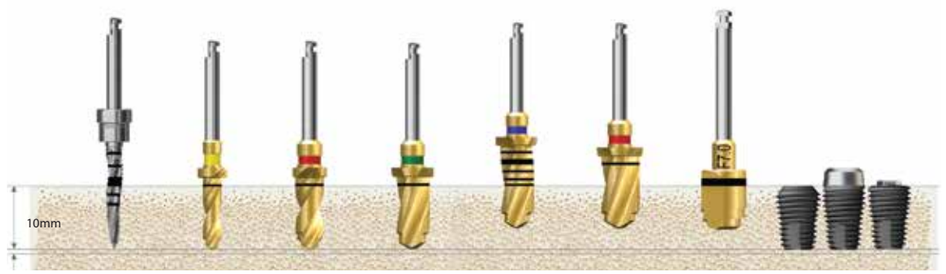
TSIII Ultra-wide | SSIII Ultra-wide | USIII Ultra-wide
KSIII Ultra-wide

(Length : 10mm)

Ø 6.0mm

Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.6)	Twist Drill (Ø4.6/5.2)	Twist Drill (Ø4.6/5.5)	Cortical Drill (F6.0)	Ø6.0 Fixture
Soft	☒	☒	☒	☒(6mm)			Implant Placement
Normal	☒	☒	☒		☒(6mm)		
Hard	☒	☒	☒		☒(6mm)	☒	

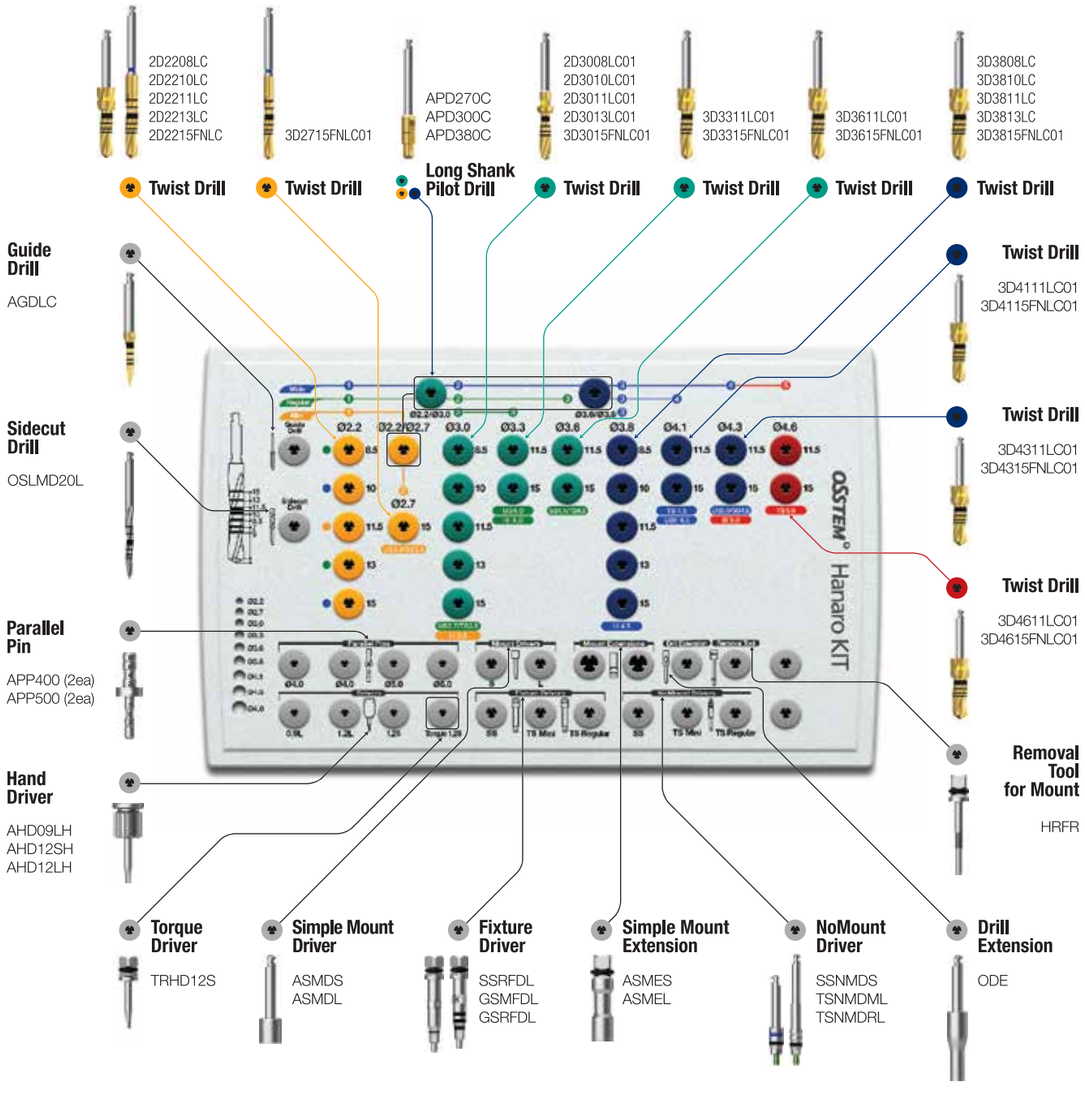
Ø 7.0mm

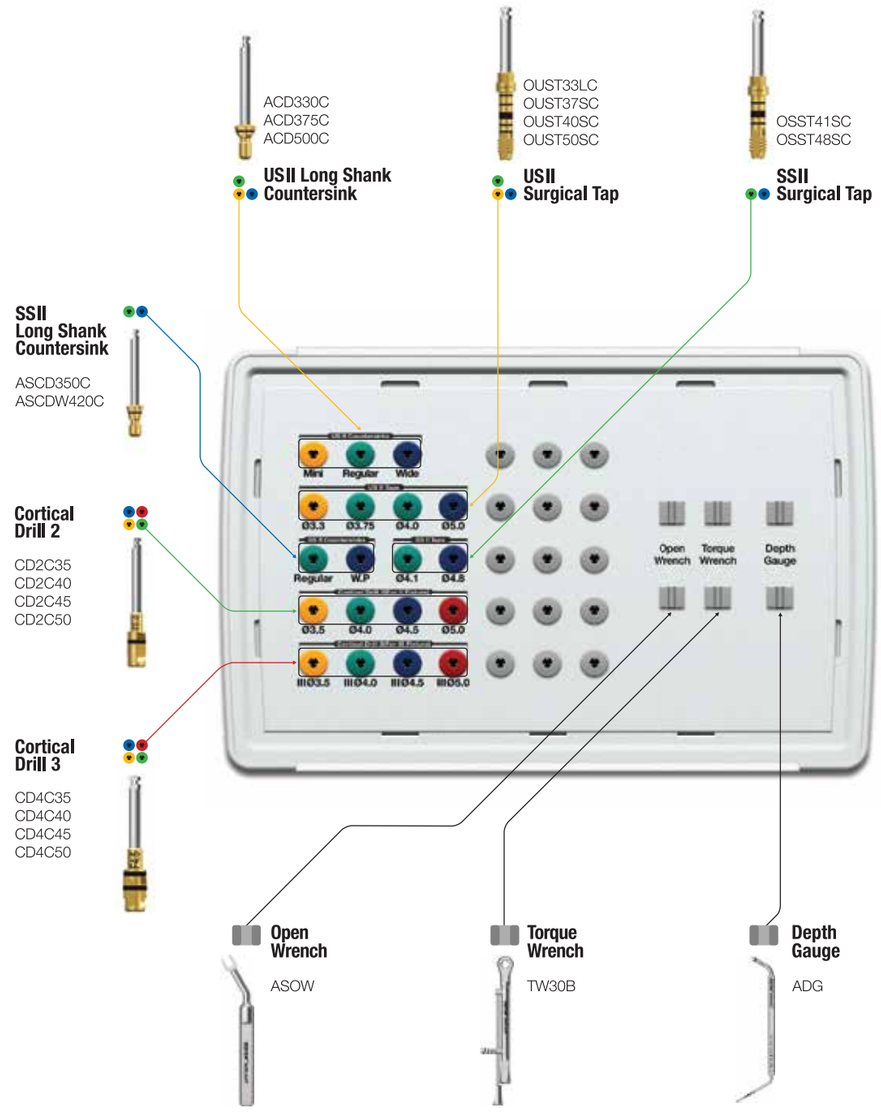


Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.6)	Twist Drill (Ø4.6/5.5)	Twist Drill (Ø5.5/6.2) (F7.0 Soft)	Twist Drill (Ø5.5/6.5)	Cortical Drill (F7.0)	Ø7.0 Fixture
Soft	☒	☒	☒	☒	☒(6mm)			Implant Placement
Normal	☒	☒	☒	☒		☒(6mm)		
Hard	☒	☒	☒	☒		☒(6mm)	☒	

New Hanaro KIT (HKA2) 03.2013

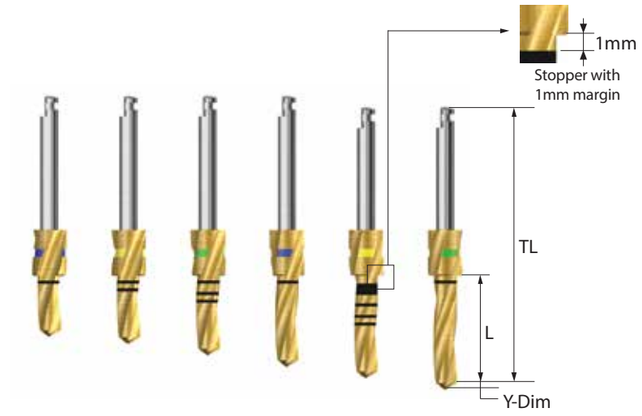
For TSII / III SSII / III USII / III KSIII





Twist Drill (Stopper Drill) 12.2012

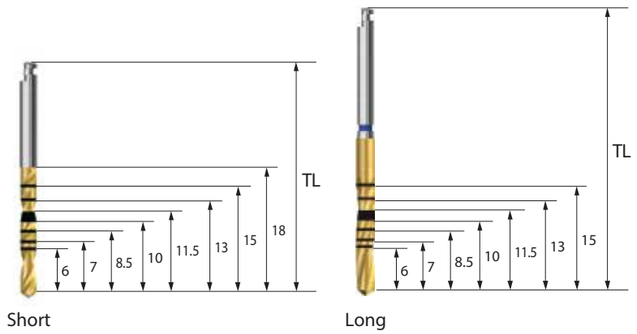
- Long stopper (6mm)
  : Enabling a procedure without drill
- Color coded stopper indicating the drill length



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	2D22 06LC	3D30 06LC	-	-	3D38 06LC	-	-	-
7	31.5	2D22 07LC01	3D30 07LC01	-	-	3D38 07LC01	-	-	-
8.5	33	2D22 08LC01	3D30 08LC01	-	-	3D38 08LC01	-	-	-
10	34.5	2D22 10LC01	3D30 10LC01	-	-	3D38 10LC01	-	-	-
11.5	34.5	2D22 11LC01	3D30 11LC01	3D33 11LC01	3D36 11LC01	3D38 11LC01	3D41 11LC01	3D43 11LC01	3D46 11LC01
13	36	2D22 13LC01	3D30 13LC01	-	-	3D38 13LC01	-	-	-

Twist Drill (Non-Stopper Drill) 01.2009

- Used for limited Stopper Drill access into the oral cavity
- Refer to the Non-stopper Drill image for marking drill marking line sizes for Short/Long types



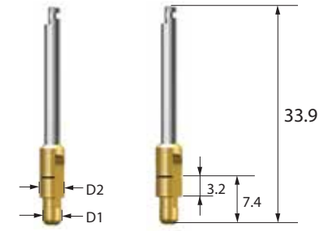
TL / D	Ø1.5	Ø2.0	Ø2.2	Ø2.7	Ø3.0	Ø3.3
33	2D15 18FNLC	2D20 18FNLC	2D22 18FNLC	3D27 18FNLC	3D30 18FNLC	3D33 18FNLC
41	-	-	2D22 15FNLC01	3D27 15FNLC01	3D30 15FNLC01	3D33 15FNLC01

TL / D	Ø3.6	Ø3.8	Ø4.1	Ø4.3	Ø4.6
33	3D36 18FNLC	3D38 18FNLC	3D41 18FNLC	3D43 18FNLC	3D46 18FNLC
41	3D36 15FNLC01	3D38 15FNLC01	3D41 15FNLC01	3D43 15FNLC01	3D46 15FNLC01

Long Shank Pilot Drill 01.2009

- Used for adjusting the drilling hole path
- Previous drilling path maintained for the next drill

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 (TSII, SSII SA) 01.2009

- Drill used for removing cortical bone from hard bone (for II type)
- Dedicated drills available for each fixture diameter
- Drilling up to the bottom marking line recommended
- F = Fixture

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

Cortical Drill 3 (Taper Fixture TSIII, SSIII, USIII, KSIII) 08.2014

- Drill used for expanding the cortical bone after using the Straight Drill
- Used after forming the final drill hole in normal or harder bone
- Dedicated drills available for each fixture diameter
- Bottom marking line for normal bone, and top marking line for hard bone
- Drilling up to the lower marking line recommended

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

Countersink (USIII, USII SA, USIII SA Wide PS, Wide) 01.2009

- Dedicated drill for expanding the placement hole opening for US Fixtures
  : wide PS and wide of USIII, USII SA, and USIII SA
- Recommended speed : 300rpm

USSCS45W

Straight Fixture Tap (TSII, USII, SSII SA)

02.2016

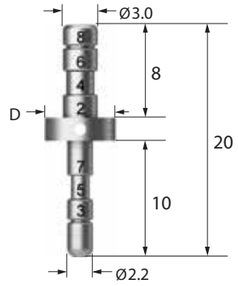
- Dedicated tap for Straight Fixtures (II type)
- Used for hard bones, forming fixture thread shape
- Torque wrench used after connecting to the engine (25rpm recommended) or a mount extension
- Tapping up to the bottom marking line recommended
- F = Fixture

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

Parallel Pin

01.2013

- Used for checking the position and direction of bone preparation



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

※ Refer to surgical instruments for other components (from p142)

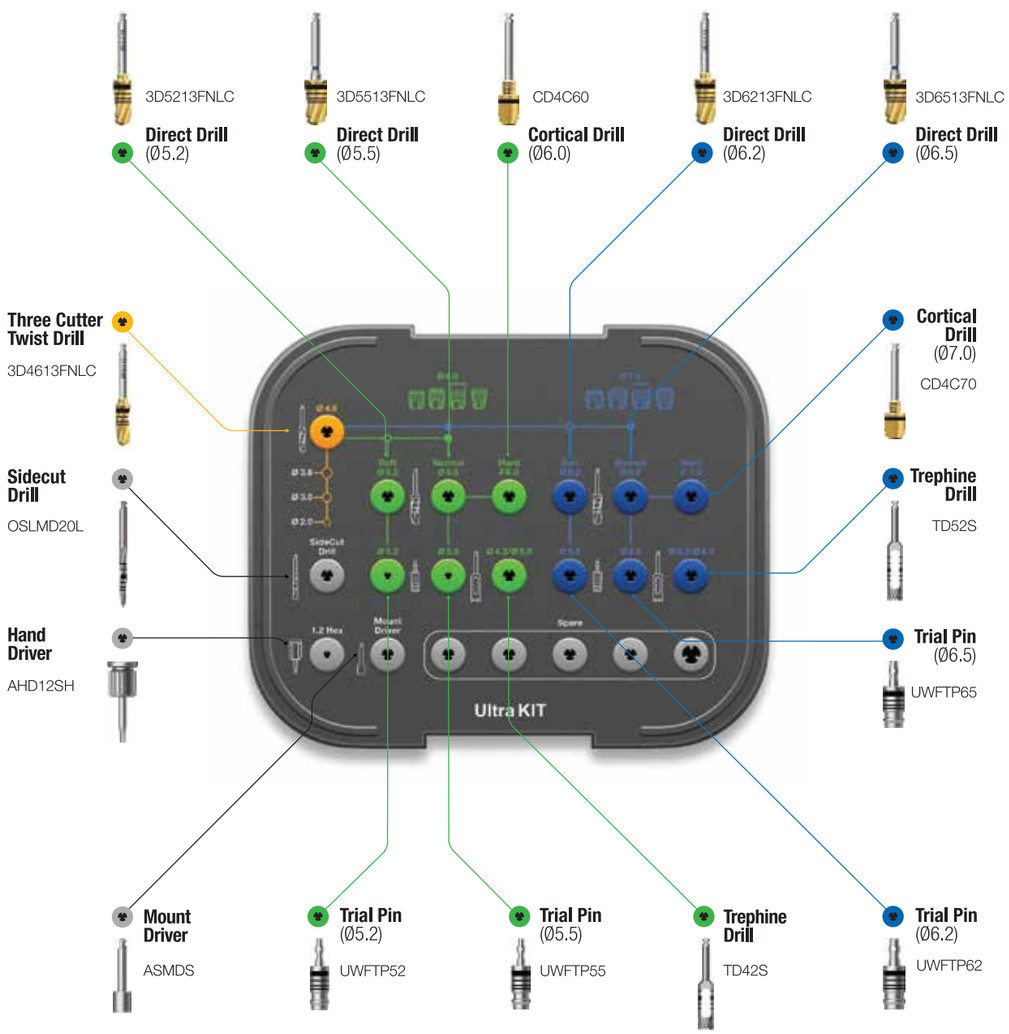
Ultra KIT (HULTRK) 09.2011

For **Ultra-wide**

Lower panel components

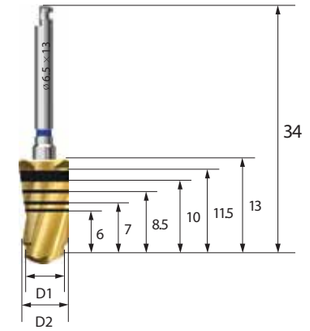
Open Wrench
SPOW

Ratchet Wrench
RCWC



Direct Drill 01.2009

- 2-stage drill with both Pilot and Twist Drill functions
- Enabling final drilling without pilot drilling
- Increased initial fixation stability in a fresh extraction socket with reduced dead space in apex



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

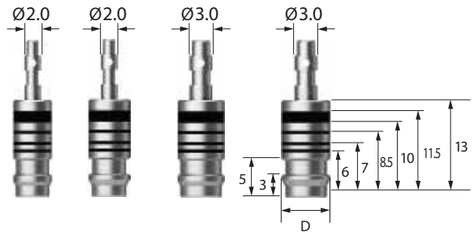
Cortical Drill (Ultra-wide) 01.2009

- Drill used for removing cortical bone from hard bone (for Ultra-wide)
- Dedicated drills available for each fixture diameter
- Drilling up to the lower marking line recommended
- F = Fixture

F6.0	F7.0
CD4C60	CD4C70

Trial Pin (Ultra-wide) 01.2009

- Checking the width and depth of a fresh extraction socket or failed implant socket
- Checking the drilling after using a Direct Drill as the final drill
- Used as a Parallel Pin



D	Ø 5.2	Ø 5.5	Ø 6.2	Ø 6.5
	UWFTP52	UWFTP55	UWFTP62	UWFTP65

※ Refer to surgical instruments for other components (from p142)

Drilling Sequence II Type Straight Drill

TSII | SSII | USII

(Length : 10mm)

Ø 3.5mm

Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø2.7)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Cortical Drill (F3.5)	Straight Fixture Tap (F3.5)	Ø3.5 Fixture
Soft	☒	☒					Implant Placement
Normal	☒		☒	☒			
Hard	☒		☒	☒	☒		
Hard (Option)	☒		☒	☒		☒	

Ø 4.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Twist Drill (Ø3.3)	Twist Drill (Ø3.8)	Cortical Drill (F4.0)	Straight Fixture Tap (F4.0)	Ø4.0 Fixture
Soft	☒	☒	☒	☒				Implant Placement
Normal	☒	☒	☒		☒			
Hard	☒	☒	☒		☒	☒		
Hard (Option)	☒	☒	☒		☒		☒	

Ø 4.5mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.1)	Cortical Drill (F4.5)	Straight Fixture Tap (F4.5)	Ø4.5 Fixture
Soft	☒	☒	☒	☒	☒				Implant Placement
Normal	☒	☒	☒	☒	☒	☒			
Hard	☒	☒	☒	☒	☒	☒	☒		
Hard (Option)	☒	☒	☒	☒	☒	☒		☒	

Ø 5.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.3)	Twist Drill (Ø4.6)	Cortical Drill (F5.0)	Straight Fixture Tap (F5.0)	Ø5.0 Fixture
Soft	☒	☒	☒	☒	☒	☒				Implant Placement
Normal	☒	☒	☒	☒	☒		☒			
Hard	☒	☒	☒	☒	☒		☒	☒		
Hard (Option)	☒	☒	☒	☒	☒		☒		☒	

Recommended placement torque ≤ 40Ncm

TS Fixture placed to a depth 1mm deeper than the bone level for normal bone/hard bone, and to the bone level for soft bone to maintain fixation stability

For fixture tap used in hard bone, engine (25rpm recommended) is used or Torque Wrench is used after assembling mount extension

Drilling Sequence III Type **Straight Drill**

TSIII | SSIII | USIII | KSIII

(Length : 10mm)

Recommended placement torque ≤ 40Ncm

TS Fixture placed to a depth 1mm deeper than the bone level for normal bone/hard bone, and to the bone level for soft bone to maintain fixation stability

Ø 3.0mm

Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø2.7)	Cortical Drill 2 (F3.0)	Ø3.0 Fixture
Soft	☒			Implant Placement
Normal	☒	☒		
Hard	☒	☒	☒	

Ø 3.5mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø2.2)	Cortical Drill 3 (F3.5)	Cortical Drill 3 (F3.5)	Ø3.5 Fixture
Soft	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒		
Hard	☒	☒	☒		☒	

Ø 4.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Twist Drill (Ø3.3)	Cortical Drill 3 (F4.0)	Cortical Drill 3 (F4.0)	Ø4.0 Fixture
Soft	☒	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒	☒		
Hard	☒	☒	☒	☒		☒	

Ø 4.5mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Cortical Drill 3 (F4.5)	Cortical Drill 3 (F4.5)	Ø4.5 Fixture
Soft	☒	☒	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒	☒	☒		
Hard	☒	☒	☒	☒	☒		☒	

Ø 5.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.3)	Cortical Drill 3 (F5.0)	Cortical Drill 3 (F5.0)	Ø5.0 Fixture
Soft	☒	☒	☒	☒	☒				Implant Placement
Normal	☒	☒	☒	☒	☒	☒	☒		
Hard	☒	☒	☒	☒	☒	☒		☒	

Ø 5.5mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6)	Cortical Drill 3 (F5.5)	Cortical Drill 3 (F5.5)	Ø5.5 Fixture
Soft	☒	☒	☒	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒	☒	☒	☒		
Hard	☒	☒	☒	☒	☒	☒		☒	

Drilling Sequence IV Type Straight Drill

TSIV | USIV

(Length : 10mm)

Ø 4.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Twist Drill (Ø3.0 Half)	Ø4.0 Fixture
D4	☒				Implant Placement
Soft	☒	☒	☒	☒	

Ø 4.5mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.1 Half)	Ø4.5 Fixture
D4			☒				Implant Placement
Soft	☒	☒	☒	☒	☒	☒	

Ø 5.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6 Half)	Ø5.0 Fixture
D4			☒				Implant Placement
Soft	☒	☒	☒	☒	☒	☒	

Drilling Sequence Ultra-wide Straight Drill

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

(Length : 10mm)

Ø 6.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6)	Direct Drill (Ø5.2)	Direct Drill (Ø5.5)	Cortical Drill (F6.0)	Ø6.0 Fixture
Soft	☒	☒	☒	☒	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒	☒	☒		☒		
Hard	☒	☒	☒	☒	☒	☒		☒	☒	

Ø 7.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6)	Direct Drill (Ø5.5)	Direct Drill (Ø6.2)	Direct Drill (Ø6.5)	Cortical Drill (F7.0)	Ø7.0 Fixture
Soft	☒	☒	☒	☒	☒	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒	☒	☒	☒		☒		
Hard	☒	☒	☒	☒	☒	☒	☒		☒	☒	

Recommended placement torque ≤ 40Ncm

TSIV/USIV Fixtures are dedicated implants for maxillary sinus or soft bone, not guiding normal or harder bones

Reducing the speed to 15rpm or lower recommended for placement as the placement speed is too fast for TSIV/USIV Fixtures due to large thread pitch

Drilling Sequence Ultra-wide Straight Drill

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

(Length : 10mm)

Ø 6.0mm

Drilling sequence with trephine in the healed mature bone

Bone Quality	Trephine Drill (Ø4.2/5.0)	Direct Drill (Ø4.6/5.2)	Direct Drill (Ø4.6/5.5)	Cortical Drill (F6.0)	Ø6.0 Fixture
Soft	☒	☒			Implant Placement
Normal	☒		☒		
Hard	☒		☒	☒	

Immediate placement at the extraction socket

Trephine Drill (Ø4.2/5.0) | Direct Drill (Ø4.6/5.0) | Trial Pin (Ø5.5) | 6.0 Ultra-wide Fixture

Immediate replacement of the failed implant

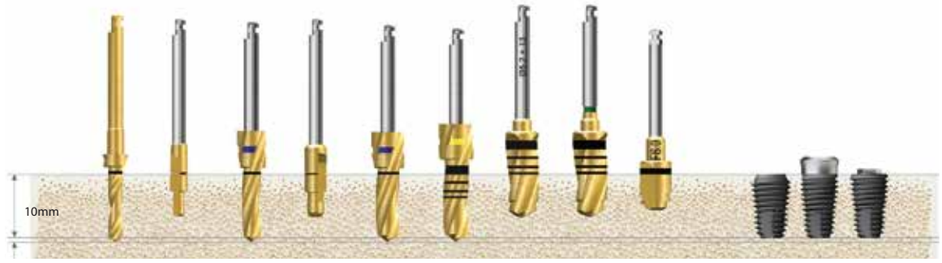
Ø4.0 Failed Fixture | Trephine Drill (Ø4.2/ Ø5.0) | Trial Pin (Ø5.5) | Direct Drill (Ø4.6/ Ø5.5) | 6.0 Ultra-wide Fixture

Drilling Sequence Ultra-wide Straight Drill

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

(Length : 10mm)

Ø 6.0mm



Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6)	Direct Drill (Ø5.2)	Direct Drill (Ø5.5)	Cortical Drill (F6.0)	Ø6.0 Fixture
Soft	☒	☒		☒	☒	☒	☒			Implant Placement
Normal	☒	☒		☒	☒	☒		☒		
Hard	☒	☒		☒	☒	☒		☒	☒	

Ø 7.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.0)	Twist Drill (Ø4.6)	Direct Drill (Ø5.5)	Direct Drill (Ø6.2)	Direct Drill (Ø6.5)	Cortical Drill (F7.0)	Ø7.0 Fixture
Soft	☒	☒	☒	☒	☒	☒	☒	☒			Implant Placement
Normal	☒	☒	☒	☒	☒	☒	☒		☒		
Hard	☒	☒	☒	☒	☒	☒	☒		☒		

Recommended placement torque ≤ 40Ncm

TS Fixture placed to a depth 1mm deeper than the bone level for normal bone/hard bone, and to the bone level for soft bone to maintain fixation stability

Drilling Sequence Ultra-wide Straight Drill

TSIV Ultra-wide | USIV Ultra-wide

(Length : 10mm)

Ø 6.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6)	Direct Drill (Ø5.2)	Ø6.0 Fixture
D4	☒	☒			☒			Implant Placement
Soft	☒	☒	☒		☒		☒	

Ø 7.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6)	Direct Drill (Ø5.5)	Direct Drill (Ø6.2)	Ø7.0 Fixture
D4	☒	☒			☒	☒			Implant Placement
Soft	☒	☒		☒	☒	☒	☒	☒	

Recommended placement torque ≤ 40Ncm

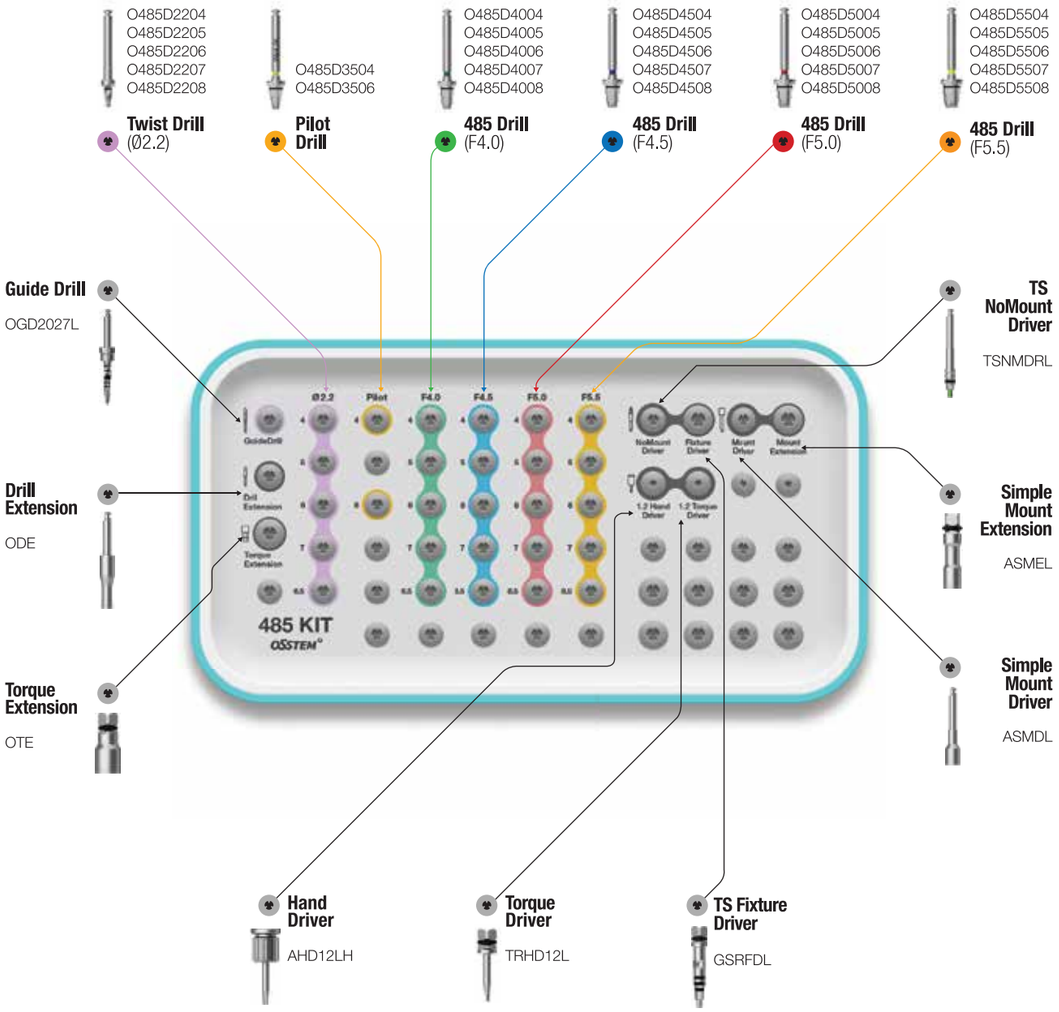
485 KIT (O485K) 03.2018

For TSIII SSIII USIII KSIII

Lower panel components

Torque Wrench
TW30B

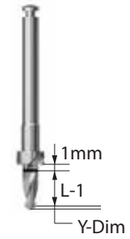
Depth Gauge
OSDG



485 KIT Surgical Instruments

485 Drill

- Drill for placing short implants in alveolar bone lacking in vertical height
- Ø2.2 drill : Straight Drill
- Top blade of other drill in the shape of CAS Drill, and the side blade in the shape of Taper Drill
- Stopper Drill with 1mm margin
- 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 (from p142)

Drilling Sequence 485 Drill

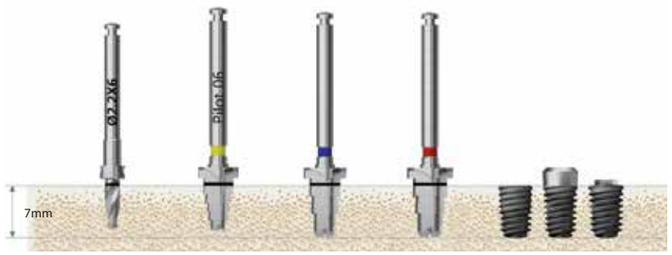
TSIII | SSIII | USIII | KSIII

(Length : 7mm)

Ø 4.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill	485 Drill (F4.0)	485 Drill (F4.5)	Ø4.0 Fixture
Normal	☒	☒	☒		Implant Placement
Hard	☒	☒		☒	

Ø 4.5mm



Bone Quality	Twist Drill (Ø2.2)	Pilot Drill	485 Drill (F4.5)	485 Drill (F5.0)	Ø4.5 Fixture
Normal	☒	☒	☒		Implant Placement
Hard	☒	☒		☒	

Ø 5.0mm

Bone Quality	Twist Drill (Ø2.2)	Pilot Drill	485 Drill (F5.0)	485 Drill (F5.5)	Ø5.0 Fixture
Normal	☒	☒	☒		Implant Placement
Hard	☒	☒		☒	

Surgical Instruments

123 Guide Drill

- Drill for forming a hole to facilitate initial drilling
- Facilitating drilling depth adjustment by assembling a stopper
- Included in 122 Taper KIT only (not included in Taper KIT)

D	Ø 2.0
OGD2027L	

Drill Extension

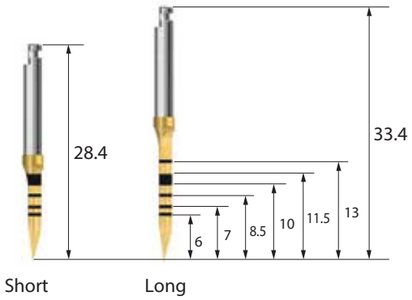
- Extending the length of a drill or other hand piece tool (drill extended by 16.9mm)
- Risk of bending or fracture upon exerting excessive force on inadequate assembly
- Common component of Taper KIT and Straight KIT

L (Extention)	16.9
ODE	

Lance Drill (Guide Drill)

- Forming a hole to facilitate initial drilling
- Bone density determined through drilling
- Included in Taper KIT only (not included in 122 Taper KIT)

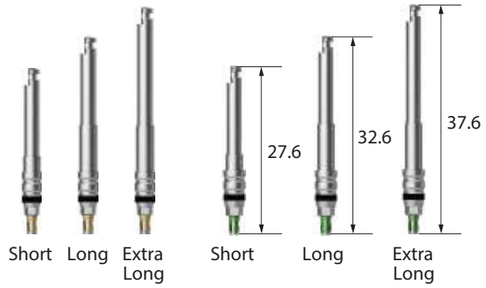
L	Short	Long
	AGDSC	AGDLC



TS NoMount Driver 05.2012

- Driver directly connected to the fixture upon placing with a surgical hand piece
- C = Connection

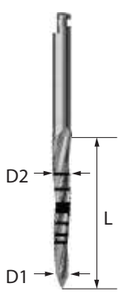
L \ C	Mini	Regular
Short	TSNMDMS	TSNMDRS
Long	TSNMDML	TSNMDRL
Ex.Long	TSNMDME	TSNMDRE



Sidecut Drill

- Drill to remove the side parts with the cutting edge of the body
- Used to remove the ridge of a fresh extraction socket
- Facilitating site preparation of a fresh extraction socket
- Included in Taper KIT only (not included in 122 Taper KIT)

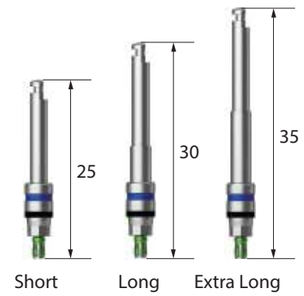
L \ D1 / D2	Ø1.5 / 2.0	Ø2.0 / 2.5	Ø3.0 / 3.5
13	OSLM DS	OSLMD 20S	-
16.5	-	-	OSLMD 30L
20	OSLM DL	OSLMD 20L	-



SS NoMount Driver 09.2014

- Driver directly connected to the fixture upon placing with a surgical hand piece
- C = Connection

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

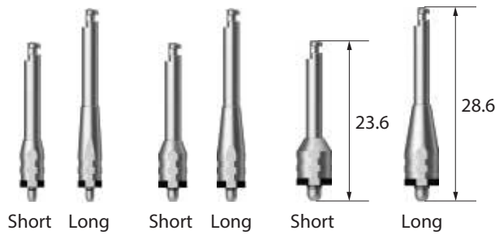


Surgical Instruments

US NoMount Driver 12.2009

- Driver directly connected to the fixture upon placing with a surgical hand piece
- C = Connection

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



KS NoMount Driver 10.2019

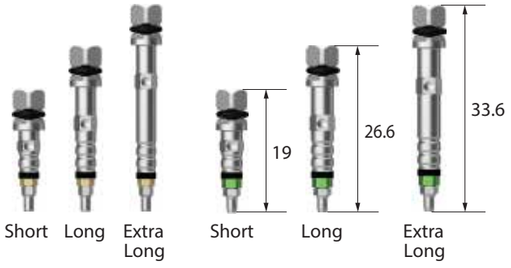
- Driver directly connected to the fixture upon placing with a surgical hand piece
- Ø3.5 Fixtures assembled below the bottom marking; and Ø4.0, Ø4.5, Ø5.0, Ø6.0 and Ø7.0 Fixtures assembled above the bottom marking
- Distance between laser markings and laser marking are divided into 0.5mm
- C = Connection

L \ C	Regular
Short	KSNMDS
Long	KSNMDL

TS NoMount Torque Driver 12.2009

- Driver directly connected to the fixture upon placing with a wrench
- Be sure to use it after confirming an adequate assembly
  (Risk of fracture even at low torque when inadequately assembled)
- Note that it cannot be removed in case of fracture
- C = Connection

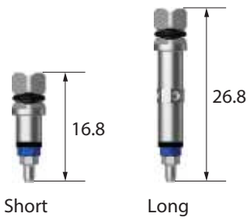
L \ C	Mini	Regular
Short	GSNMT32S	GSNMT35S
Long	GSNMT32L	GSNMT35L
Ex.Long	GSNMT32E	GSNMT35E



SS NoMount Torque Driver 01.2009

- Driver directly connected to the fixture upon placing with a wrench
- Be sure to use it after confirming an adequate assembly
  (Risk of fracture even at low torque when inadequately assembled)
- Note that it cannot be removed in case of fracture
- C = Connection

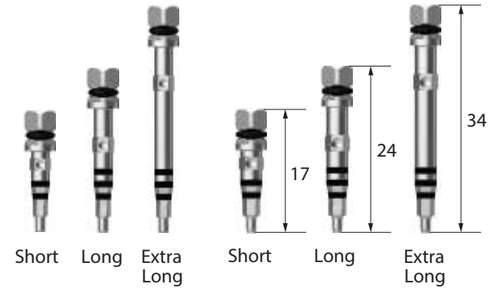
L \ C	Regular / Wide
Short	SSNMT39S
Long	SSNMT39L



TS Fixture Driver 11.2014

- Used by assembling directly to the fixture for final placement depth adjustment or removal
- C = Connection

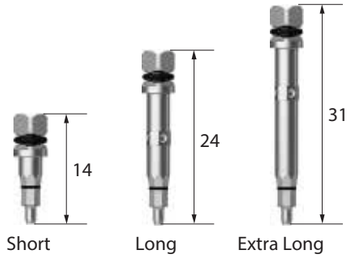
L \ C	Mini	Regular
Short	GSMFDS	GSRFDS
Long	GSMFDL	GSRFDL
Ex.Long	GSMFDE	GSRFDE



SS Fixture Driver 12.2014

- Used by assembling directly to the fixture for final placement depth adjustment or removal
- C = Connection

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



Surgical Instruments

US Fixture Driver 01.2009

- Used by assembling directly to the fixture for final placement depth adjustment or removal
- C = Connection

C	Mini	Regular	Wide
	USMFDL	USRFDL	USWFDL

KS Fixture Driver 10.2019

- Used by assembling directly to the fixture for final placement depth adjustment or removal
- C= Connection

L	C	Regular
Short		KSFDS
Long		KSFDL

Torque Extension 12.2013

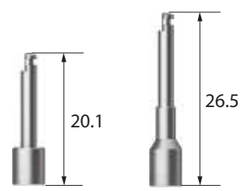
- Extending the length of the instrument used by connecting to a wrench (10mm extension)

OTE

Simple Mount Driver 01.2009

- Used by assembling to the simple mount for fixture placement

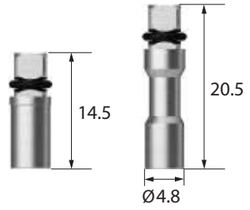
L	
Short	ASMDS
Long	ASMDL



Simple Mount Extension 12.2014

- Used by connecting to a wrench for extending the simple mount length or applying torque manually

L	
Short	ASMES
Long	ASMEL



Simple Open Wrench 01.2009

- Used for removing a simple mount from weak bone
- Easy placement into the oral cavity with 30°

ASOW

Surgical Instruments

Removal Tool (Fixture Mount) 01.2009

- Used after removing mount screw in case of jamming between the fixture and mount
- Used by assembling to driver handle and Torque Wrench
- Removing mount by rotating FWD after inserting vertically
- App = Application

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

Depth Gauge

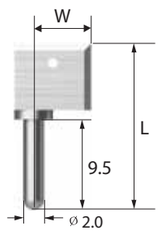
- Used for measuring the drilling depth (7-15mm) or as an open wrench
- Common component of 122 Taper & Taper KIT

OSDG

Positioning Guide 01.2009

- Instrument to facilitate drilling interval setting for fixture placement
- Placed into the hole for use after initial drilling
- Packing unit : each component or the set

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



Tissue Height Gauge (TS) 01.2009

- Instrument to measure the gingival height by assembling to the fixture connection for top G/H selection in TS implant placement

HGTSHG

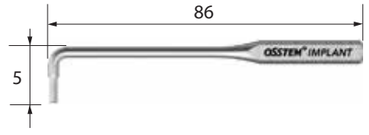
Ratchet Wrench 01.2009

- Dedicated wrench for anti-reverse procedure
- Excessive torque exertion may result in internal damage to bone or fixture

CITQW-1185A

L-Wrench 10.2013

- 1.2 hex driver for overcoming narrow spacing
- Torque indication : 5~8Ncm torque at the level when the wrench appears to be bent a little (within 10°)



LWC

Torque Wrench (Spring Type) 06.2012

- Wrench to apply a constant torque (10/20/30Ncm) to screws and abutments
- When the set torque is applied, the neck of the Torque Wrench is bent for indication
- If a continuous force is applied while the neck is bent, excessive torque is applied, resulting in screw fracture

TW30

Torque Wrench (Bar Type) 05.2012

- Used for adjusting the implant placement position and tightening screws and abutments
- Applying torque according to the line marked with the torque value to be applied by pulling the bar

TW30B

Surgical Instruments

Torque Wrench Set 11.2015

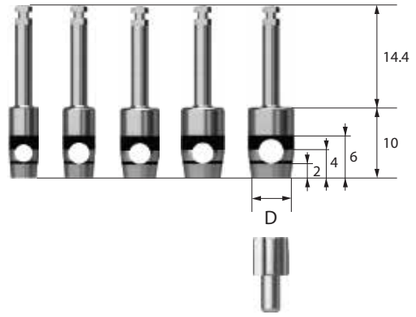
- A set of a two-way Torque Wrench and a Torque Connector
- Applying forward/reverse torque by rotating the Torque Wrench handle without removing the connector
- Compatible with osstem machine driver connector
- Applying torque according to the line marked with the torque value to be applied by pulling the bar
- Packing unit : changeable Torque Wrench + Torque Connector

MX30

Tissue Punch 09.2011

- Instrument used for flapless surgery
- Marked at 2mm intervals for measuring gingival height
- Packing unit : Tissue Punch + Guide pin

※ Using a Tissue Punch with a smaller diameter than the Healing Abutment recommended

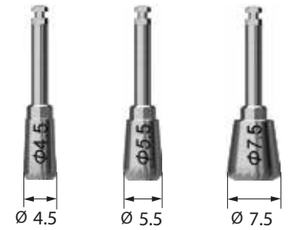


D	Ø3.3	Ø3.8	Ø4.3	Ø4.8	Ø5.3
	OSTP33	OSTP38	OSTP43	OSTP48	OSTP53
TS	Ø 4.0/4.5	Ø 4.5/5.0	Ø 5.0	Ø 6.0	Ø 6.0
SS	-	Ø 4.8	-	Ø 6.0	Ø 6.0
US	Ø 4.0	Ø 5.0	Ø 5.0	Ø 6.0	Ø 6.0

For application Healing Abutment

Bone Profiler (TS) 01.2009

- Used for removing bone around the fixture for the 1st and 2nd stage surgery
- Used by connecting a guide screw to the fixture and removing bone to compensate for the shape of the Healing Abutment
- Guide Screw protecting the morse taper entrance of the fixture
- 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

Bone Profiler (US) 01.2009

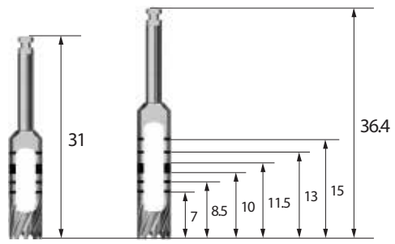
- Used for removing bone formed around the cover screw for the secondary procedure
- Used by connecting a guide screw to the fixture to compensate for the shape of the Healing Abutment
- Guide Screw protecting the fixture hex
- Packing unit : Bone Profiler + Guide Screw
- P = Platform

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	-

Surgical Instruments

Trephine Drill 01.2009

- Used for collecting bone or for removing damaged or failed fixtures
- Used for removing septal bone
- Used as an Initial Drill for ultra-fixture placement



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

Anterior Hand Driver (Implant) 12.2014

- Instrument for manual placement in anterior region
- Used by connecting to a NoMount Torque Driver or Fixture Driver
- Excessive torque may result in fracture of the fixture or driver

AHDI

Machine Driver Handle 12.2013

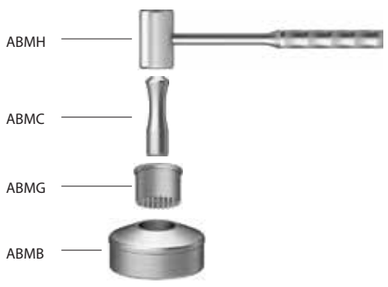
- Enabling hand rotation by connecting to any surgical instrument for engine

OMDH

Bone Mill 01.2009

- Forming particulate bone with collected autogenous bone

ABM

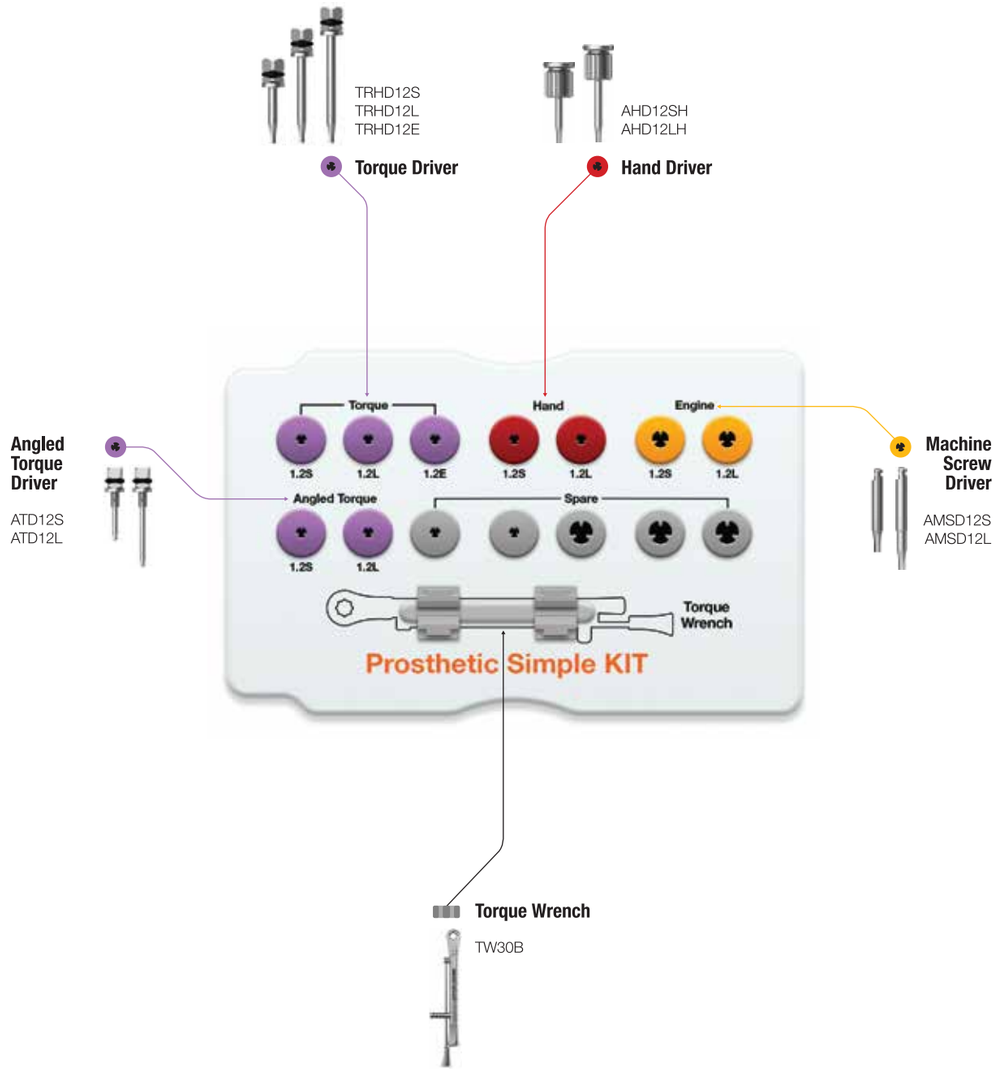


Torque Handle 11.2015

- Manual instrument used by connecting to the contra-angle hand piece (1:1 gear ratio for hand piece)
- Used for tightening screws such as Healing Abutment, Cover Screw, Abutment Screw and Orthodontic Screw (used for temporary tightening of Abutment Screw, which requires final tightening with a Torque Wrench)
- Excessive torque may result in fracture or malfunction of the hand piece

TQHD

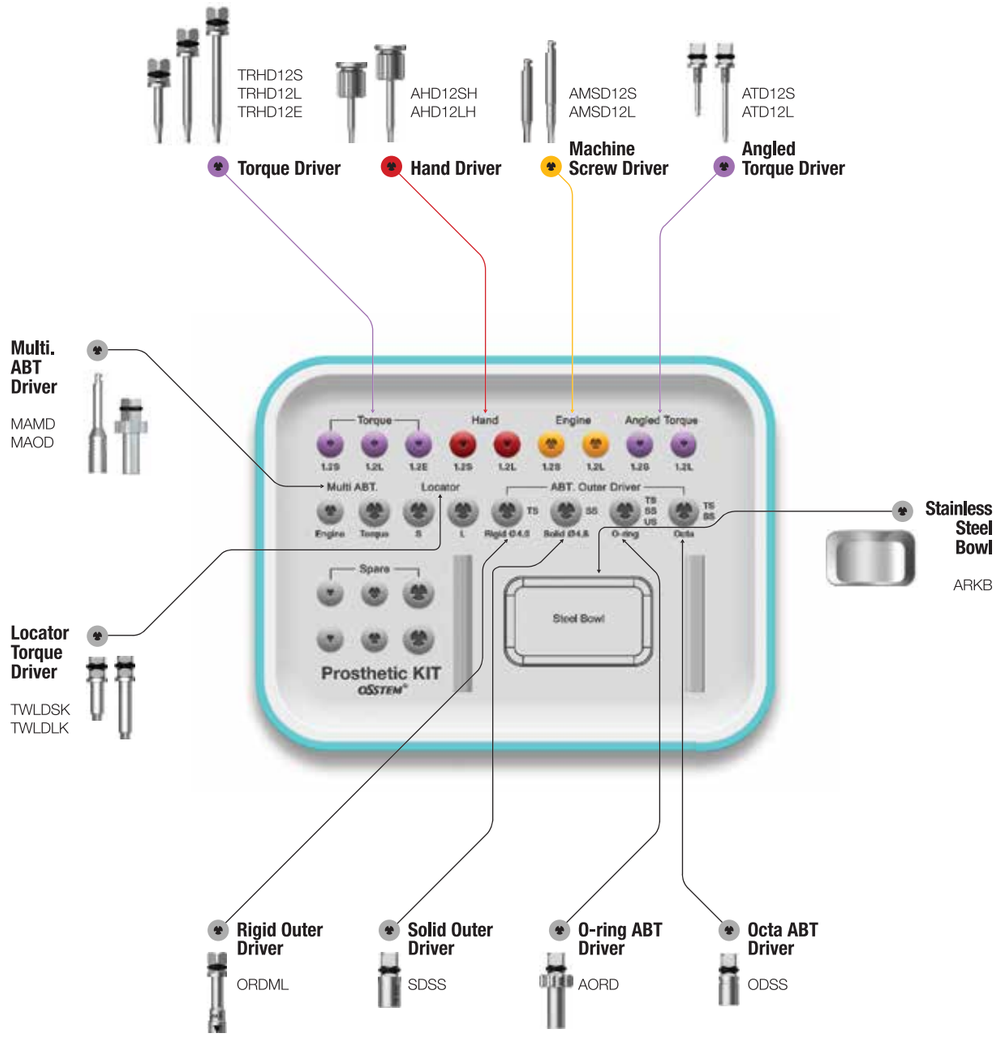
Prosthetic Simple KIT (OPSK) 02.2017



Prosthetic KIT (OPK) 05.2018

Top panel components

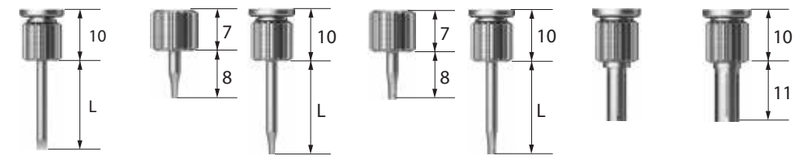
Torque Wrench
TW30B



Prosthetic KIT Surgical Instruments

Hand Driver

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

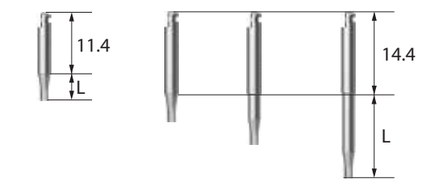


0.5 slot | 0.9 hex | 1.2 hex | 2.0 int.hex | 2.7 int.hex

L \ Type	0.5 Slot	0.9 Hex	1.2 Hex	2.0 Int.Hex	2.7 Int.Hex
Ex.Short (8)	-	AHD09MSH	AHD12MSH	-	-
Short (13)	ASD 05SH	AHD09SH	AHD12SH	IHD20H	IHD27H
Middle (15)	-	-	AHD12MH	-	-
Long (18)	ASD 05LH	AHD09LH	AHD12LH	-	-
Ex.Long (25)	-	-	AHD12EH	-	-

Machine Screw Driver

- Driver for engine
- Tip holding Tip holding feature (except internal hex type)
- Internal hex type length : 8



Osstem Torque | Short | Long | Extra Long

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	EIHD20	EIHD27
Ex.Long (17.6)	-	-	AMSD 12E	-	-

Application

Product applied to a driver
(Common use for hand, Machine Screw, and Torque Driver)

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

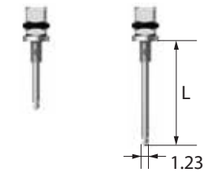
- Driver for Torque Wrench assembly
- Tip holding feature
- Use the recommended torque (excessive torque may result in fracture)
- Risk of fracture even at low torque when inadequately assembled
- Exerting torque with the driver straight up (with no tilting)
- Be sure to replace any bent tips due to extended use or excessive torque

Short | Long | Extra Long

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	TIHD20S	-
Middle (15)	-	-	TRHD 12M	-	-
Long (20)	TRSD 05L	TRHD 09L	TRHD 12L	TIHD20L	TIHD27
Ex.Long (25)	TRSD 05E	-	TRHD 12E	-	-

Angled Torque Driver 02.2017

- Driver for Torque Wrench assembly
- No holding feature
- Recommended tightening torque : 30Ncm (excessive torque may result in fracture)
- Do not remove the tube preventing debris upon fracture
- Recommended use cycle : 10 times
- Set : 3ea

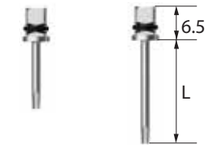


Short | Long

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

Repair Torque Driver

- Handle diameter reduced compared to Torque Driver (Ø2.1 →Ø1.6)
- Minimizing crown hole diameter for prosthesis repair or SCRP procedure

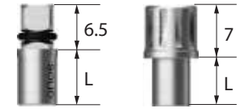


Short | Long

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

Solid Abutment Driver

- Dedicated driver for solid abutment
- Applying torque after inserting the groove of the solid abutment to the part with a triangular marking
- Recommended tightening torque : 30Ncm



Square Round

Regular

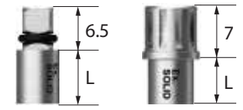
L \ Type	Square	Round
Short (6)	SDSS	SDRS
Long (12)	SDSL	SDRL

Wide

L \ Type	Square
Short (10)	SD60S

Excellent Solid Abutment Driver

- Dedicated driver for excellent solid abutment
- Applying torque after inserting the groove of the excellent solid abutment to the part with a triangular marking
- Recommended tightening torque : 30Ncm



Square Round

Regular

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

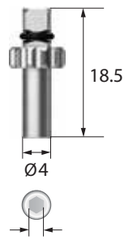
Wide

L \ Type	Square
Short (10)	ESD60S

O-ring Abutment Driver

- Dedicated driver for O-ring Abutment

Small	Normal
STAOD	AORD



Small : 2.25 / Normal : 2.4

Rigid Outer Driver

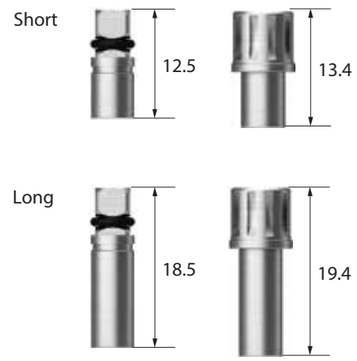
- Dedicated driver for Rigid Abutment
- Recommended tightening torque : 30Ncm

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

- Dedicated driver for Octa Abutment
- Recommended tightening torque : 30Ncm

L \ Type	Square	Round
Short	ODSS	ODRS
Long	ODSL	ODRL



Prosthetic KIT Surgical Instruments

Multi Abutment Machine Driver

- Dedicated machine driver for Multi Abutment

MAMD

Abutment Holder 06.2017

- Supplementary instrument for convenient connection of a 2-piece abutment which is difficult to hold with a hand in all oral regions

OABH

Abutment Positioning Driver 07.2019

- Used for assembling the abutment in the prosthetic stage after placing a fixture
  ※ For transfer abutment only
- Function to help convenient and stable mounting and tightening of the abutment kept being pushed away by gingiva
- Used according to the H and G/H lengths of the abutment to be removed as shown below

(Unit : Won)

Range of Use	Short					Long				
H + G/H	=<9					=>10				
	5	6	7	8	9	10	11	12	13	14

Short	Long
OAPDS	OAPDL

Short Long

Multi Abutment Outer Driver

- Dedicated Torque Driver for Multi Abutment

MAOD

Locator ⊠ Torque Driver

- Dedicated Torque Driver for Locator Abutment

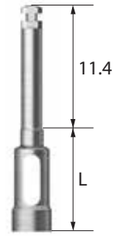
Type	Short	Long
	TWLDSK	TWLDLK

Osstem Torque Driver

- Dedicated driver for osstem torque, which may not be compatible with a general hand piece
- Used after matching the triangle on the outside of the driver with the groove or side of the abutment
- Solid, excellent solid driver only compatible with Ø4.8
- 1.2 hex type L : 5

1.2 hex

Short



Long

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

Path Probe (TS)

- Checking the path and measuring the gingival height after TS Fixture placement
- C = Connection

C	Mini	Regular
	GIPAP-3016A	GIPAP-3516A

Path Probe (KS) 11.2019

- Checking the path and measuring the gingival height after KS Fixture placement
- C = Connection

C	Mini	Regular
	-	KSPPR

Torque Connector

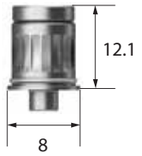
- Connector for connecting the torque square driver with a two-way Torque Wrench

ORC

Machine Driver Connector

- Connector for connecting the machine driver with a two-way Torque Wrench

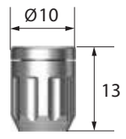
OMDC



Driver Handle

- Used by connecting to the Torque Driver

TIDHC



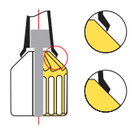
Finishing Reamer Set

- Used for removing lip from the inside of the casted body after casting plastic coping

FRSC

Reamer user guide

1. Connected to the casted burn-out cylinder by selecting the reamer tip of the same size as the abutment
2. Rotating the reamer bite with constant force by holding the casted body
3. Reaming until no cutting occurs



Reamer Bite

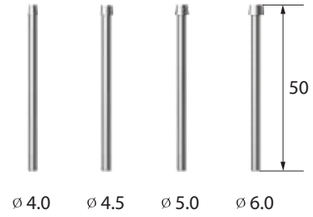
- Cutting edge to remove lip from the inside of the casted body after casting plastic coping

FRBC

Reamer Tip (Rigid Abutment)

- Guide part inserted into the casted body for removing lip from the inside after casting plastic coping (for Rigid Abutment)

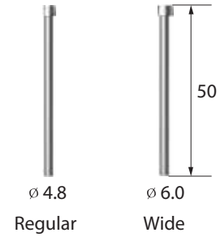
D	Ø4.0	Ø4.5	Ø5.0	Ø6.0
	GSRFRT400	GSRFRT450	GSRFRT500	GSRFRT600



Reamer Tip (Solid, Excellent Solid Abutment)

- Guide part inserted into the casted body for removing lip from the inside after casting plastic coping
- For Solid Ø6.0 and excellent solid Ø4.8
- P= Platform

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



CAS KIT (HCRSNK) RENEWAL 2020

For TSII / III SSII / III USII / III KSIII

Top panel components

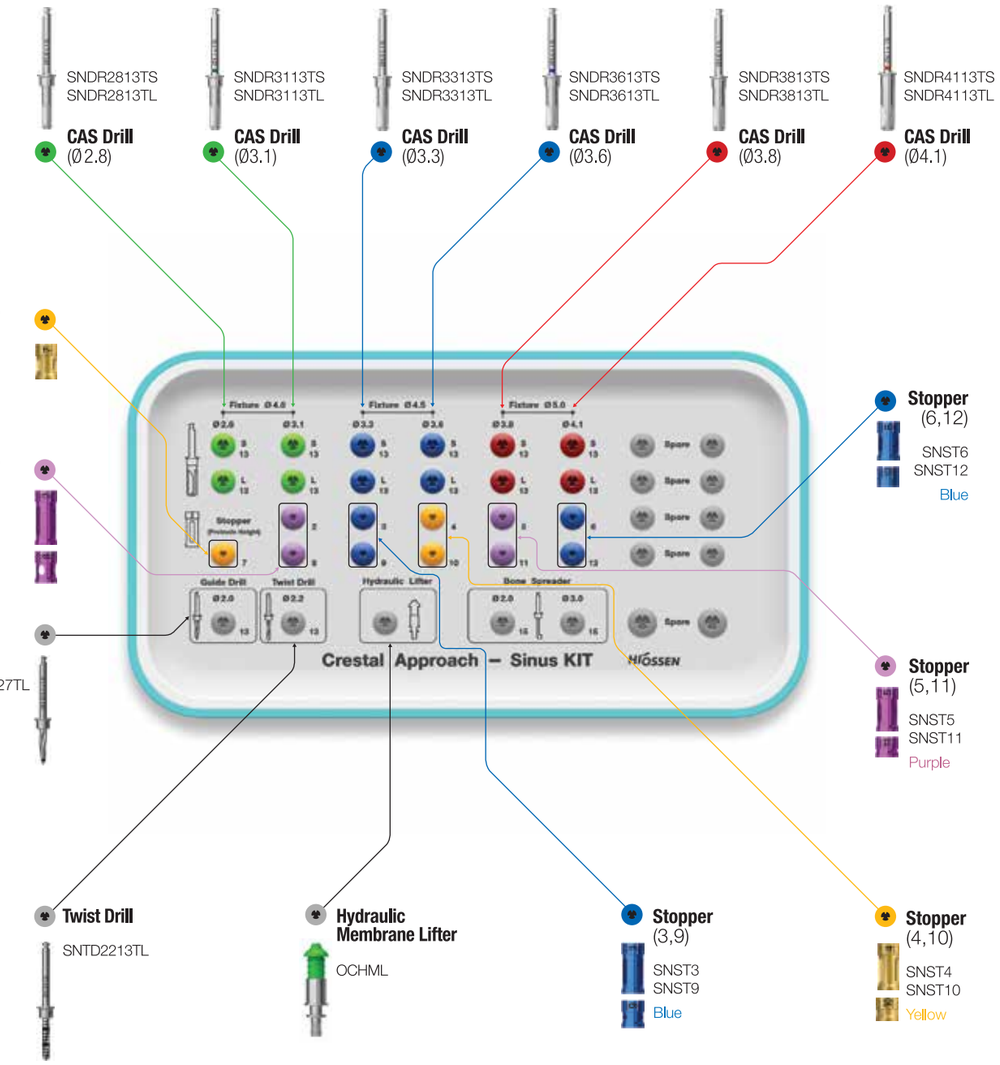
Hydraulic Membrane Lifter Tube
SNMT

Lower panel components

Bone Carrier Head
SNBCH30

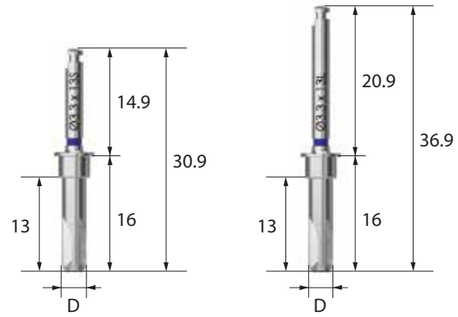
Bone Carrier
SNBCS35

Bone Condenser
SNBC1120



CAS Drill

- Safe lifting of the membrane while forming conical bone for maxillary sinus floor procedure
- Excellent bone removal at low-high speed, and autogenous bone collection at low speed
- Stopper assembled for safe lifting
- Final drill diameter selected based on the bone quality regardless of Straight or Tapered Fixture type
- Recommended speed : 400~800rpm (400rpm for first use)

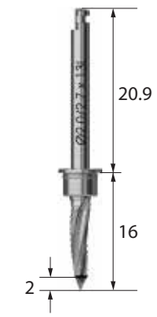


L \ D	Ø2.8	Ø3.1	Ø3.3	Ø3.6	Ø3.8	Ø4.1
Short	SNDR2813TS	SNDR3113TS	SNDR3313TS	SNDR3613TS	SNDR3813TS	SNDR4113TS
Long	SNDR2813TL	SNDR3113TL	SNDR3313TL	SNDR3613TL	SNDR3813TL	SNDR4113TL

Guide Drill

- Drill to mark the fixture placement position
- Used for removing side walls in a fresh extraction socked with side edges
- Marking line at 2mm from the tip

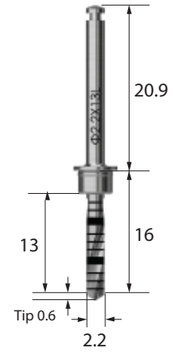
D	Ø 2.0 / 2.7
	SNGD2027TL



Twist Drill (Ø 2.2)

- Drilling 1mm under the remaining bone recommended
- Stopper assembled for safe lifting
- End line tip : 0.6mm

D	Ø 2.2
	SNTD2213TL



Hydraulic Membrane Lifter Set

- Hydraulic lifting instrument for maxillary sinus membrane
- Winged design with optimized sealing for flapless procedure

OCHML

Stopper

- Number on the stopper indicating the protruding length of the tip when assembled to a drill or instrument
- Color coded by length
- Drill and stopper use cycle : 50 times

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

Bone Condenser

- Instrument to push in the bone material into the sinus

D	Ø1.1 / 2.0
	SNBC1120

Hydraulic Membrane Lifter Tube

- Connected to the hydraulic membrane lifter

SNMT

Bone Carrier

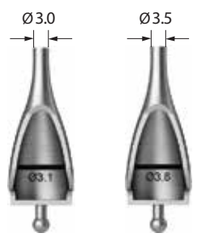
- Used for filling the inside of the sinus with bone
- Mounting the head by fastening the back of the body
- Replaceable head (SNBCH30 or SNBCH35) for use

SNBCS35

Bone Carrier Head

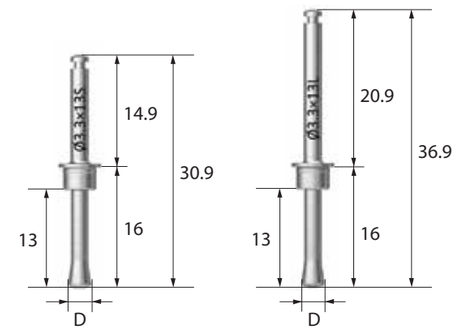
- Used for filling the inside of the sinus with bone
- SNBCH30 : used after drilling with CAS Drill Ø3.1/3.3
- SNBCH35 : used after drilling with CAS Drill Ø3.6/3.8/4.1 drilling
- Used repeatedly by filling the back of the marking line of the head and taking little by little with a bone condenser to completely fill the inside of the sinus

D	Ø3.1	Ø3.6
	SNBCH30	SNBCH35



Membrane Lifter 01.2016

- Safe lifting of the membrane due to the round shape with no cutting edge
- lifter selected according to the CAS-Drill diameter as membrane lifting is performed after using the CAS-Drill (head diameter is CAS Drill diameter - 0.2mm)
- CAS Stopper assembled and used for adjusting the depth
- Recommended speed : 400~800rpm (400rpm for first use)
- Be sure to use a drill with irrigation



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

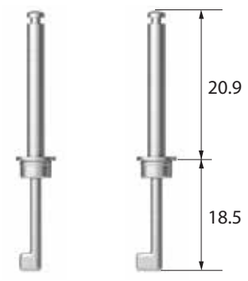
Depth Gauge

- Checking internal lifting of the sinus and measuring the remaining bone depth

SNDG

Bone Spreader

- Instrument for spreading the filled bone using the engine
- Assembled with a stopper for use
- Recommended speed : ≤ 30rpm (low speed mode)



D	Ø 2.0	Ø 3.0
	SNBS2015T	SNBS3015T

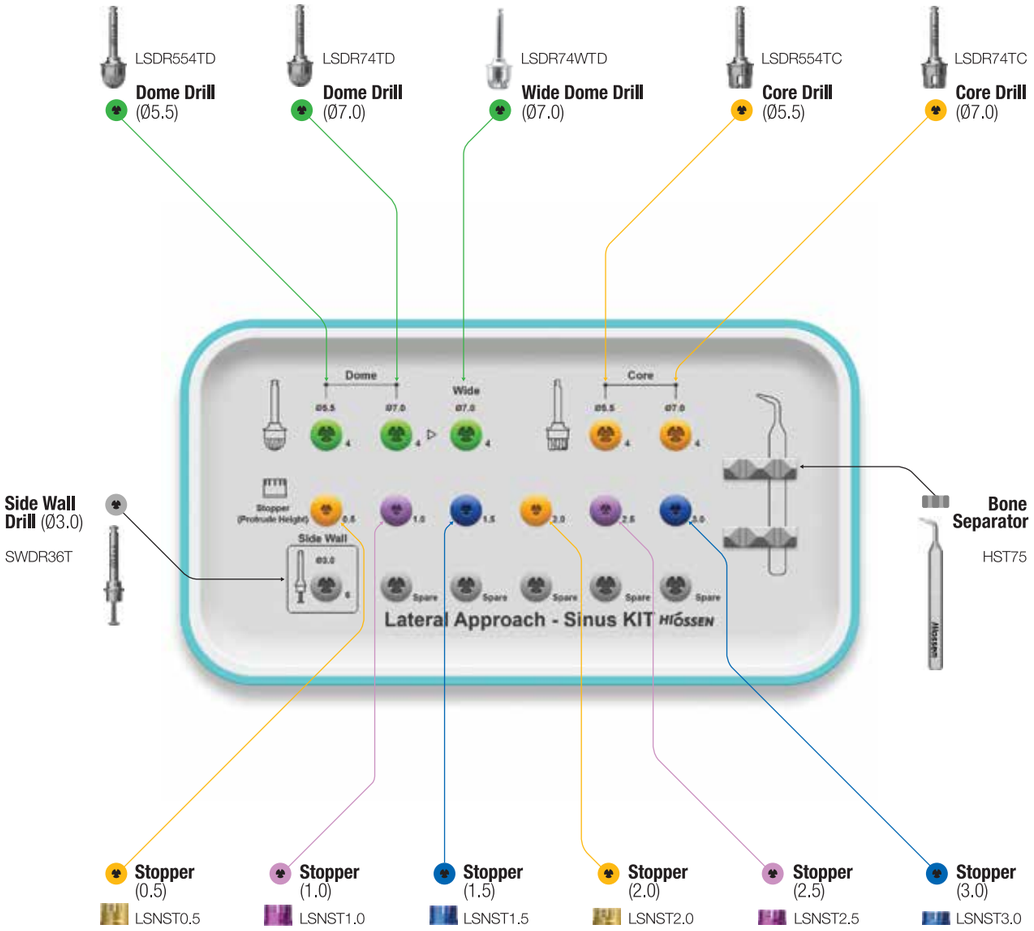
Y-Connector

- Y-shaped connector for hydraulic lifting of 2 drilling holes at the same time

SNYCT

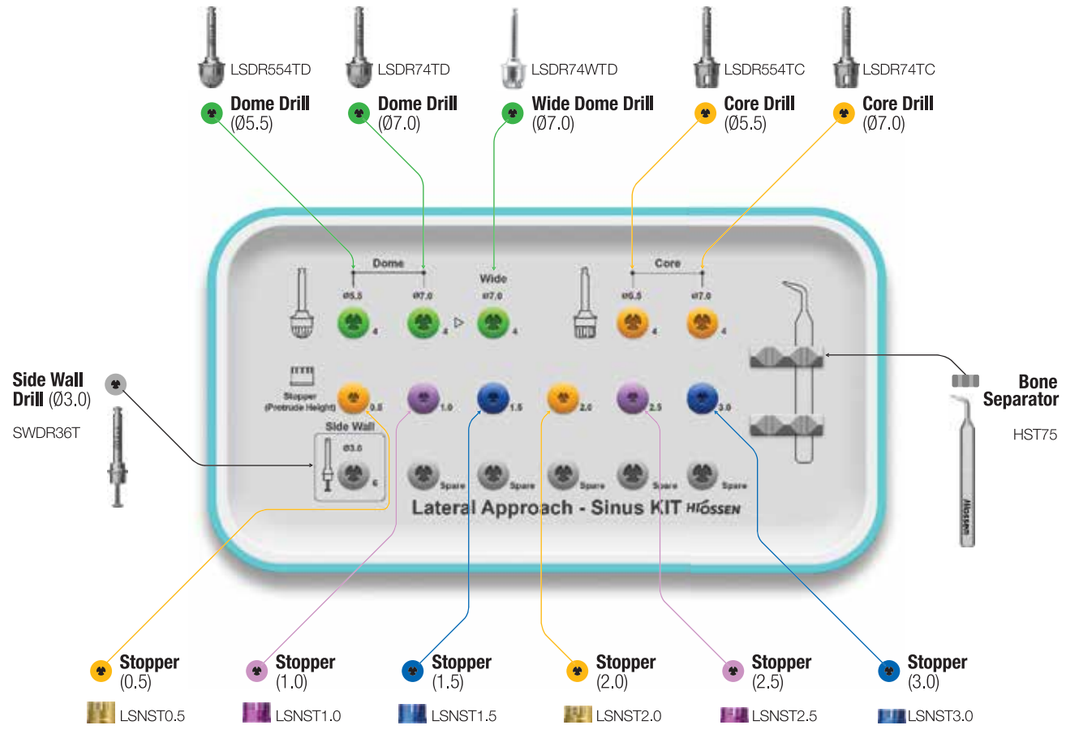
LAS KIT (HLRSNK) 10.2018

- Lateral Approach - Sinus KIT (LAS KIT) : KIT optimized for lateral approach in maxillary sinus floor procedure
- Including dome drill and core drill for safe formation of a lateral window; and Ø5.5/7.0 diameters available according to the size of the window
- The depth can be adjusted by installing a stopper on the LAS Drill, and the window can be safely formed without perforating the membrane

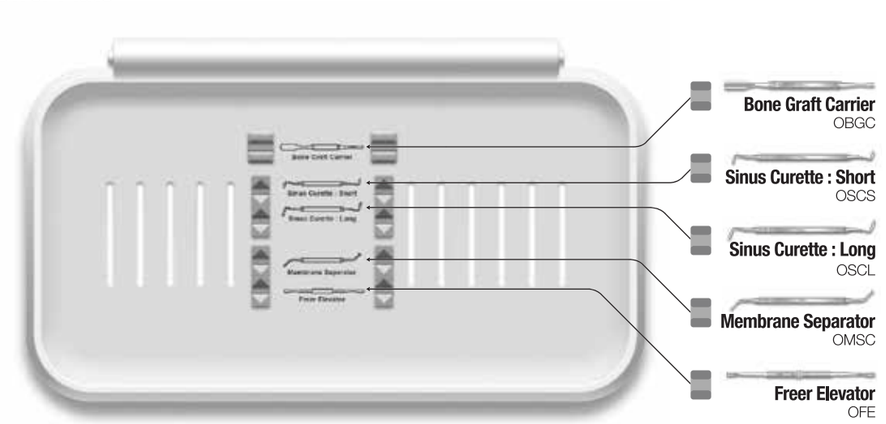


LAS Full KIT (HLRSNKP) 07.2018

- KIT with 6 additional sinus lift instruments to LAS KIT



LAS KIT Plus Lower Plate

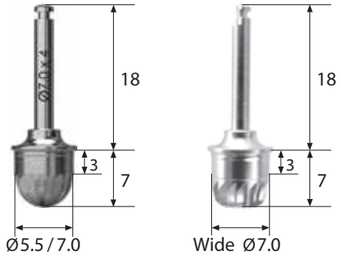


LAS KIT Surgical Instruments

Dome Drill 04.2012

- Forming a window while collecting bone
- Enhanced cutting force with macro and micro cutting edges in combination
- Depth adjusted by assembling with a stopper
- Recommended speed : 1,200~1,500rpm
- ※ Over drilling may result in damage to the membrane

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



Core Drill 04.2012

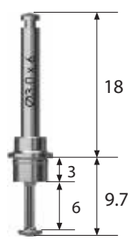
- Forming a window while forming the bone lid
- Excellent cutting force and membrane stability due to CAS Drill design concept
- Recommended speed : 1,200~1,500rpm
- ※ Over drilling may result in damage to the membrane

L \ D	Ø5.5	Ø7.0
25	LSDR554TC	LSDR74TC

Side Wall Drill 06.2012

- Expanding the window after drilling with a dome drill
- Cutting at 1mm above the lowest part of the drill edge recommended
- Recommended speed : 1,500rpm

SWDR36T



Side cutting edge height (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					

※ Depth adjusted by the common CAS KIT Stopper

Bone Separator 07.2013

- Removing the bone lid from the inside of the core drill

HST75

Stopper 05.2012

- Number on the stopper indicating the protruding length of the tip when assembled to a drill or instrument
- Color coded by length
- Drill and stopper use cycle : 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

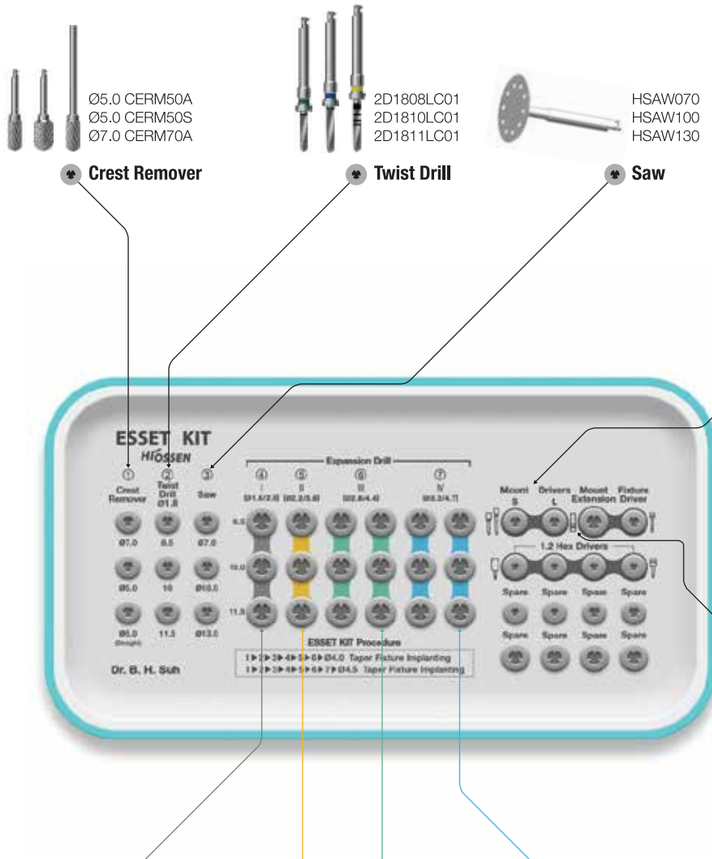
ESSET KIT (HESEK) 10.2018

For TSII / III SSII / III USII / III KSIII

Lower panel components

Torque Wrench
TQWCB

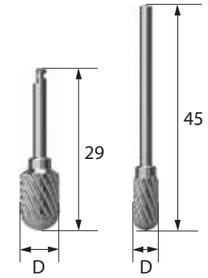
Depth Gauge
ODG



Crest Remover

- Marking the fixture placement position after removing the narrow ridge horizontally
- Recommended speed
  - Angled type : 1,200~1,500rpm
  - Straight type : 15,000~30,000rpm

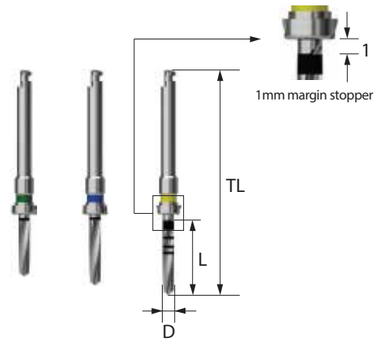
L \ D	Ø5.0	Ø7.0
29	CERM50A	CERM70A
45	CERM50S	-



Twist Drill

- Marking the fixture placement position
- Depth adjusted by assembling a stopper according to the fixture length
- Recommended speed : 1,200~1,500rpm

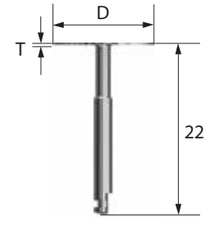
L	TL	D	Ø1.8
8.5	33		2D1808LC01
10	34.5		2D1810LC01
11	36		2D1811LC01



Saw 06.2018

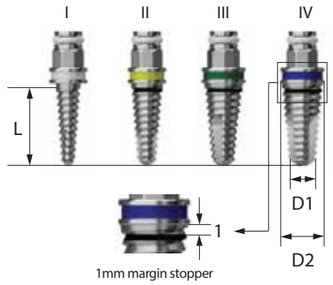
- Incision of the narrowed ridge
- After vertical incision, incision in the mesial → distal directions
- Recommended speed : 1,200~1,500rpm
- Recommended use cycle : 10 times
- T = Thickness

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



Expansion Drill 12.2016

- Expansion of the ridge after incision
- Used in sequence according to the fixture diameter
  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	EXP 162808	EXP 223608	EXP 284408	EXP 324708
10	EXP 162810	EXP 223610	EXP 284410	EXP 324710
11.5	EXP 162811	EXP 223611	EXP 284411	EXP 324711

Saw Protector 05.2015

- Safe approach for sawing with a semi-circular saw cover
- Excellent treatment visibility by forming a window
- Flexible procedure with a 360° rotating saw
- Contra angle type (removable saw cover) : KaVo(CL 3-09, S201L), W&H(WS-75)
- Straight type (built-in saw cover) : KaVo(CL10) ※ Dedicated saw used

※ Cover and body of the contra angle type sold separately

Contra angle type

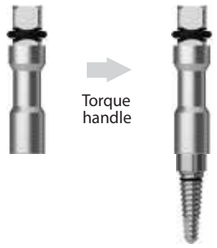
Straight type

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

Mount Extension

- Used to exerting torque in manual mode in the process to place or remove an expansion drill into alveolar bone

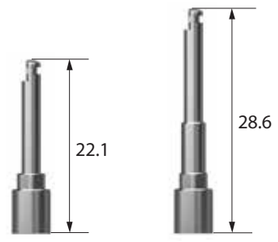
ASMEL



EXP Mount Driver

- Used to exerting torque for engine in the process to place or remove an expansion drill into alveolar bone

L	
Short (L)	AESMDS
Long (L)	AESMDL



Short Long

Torque Wrench

- Used for exerting torque on an expansion drill

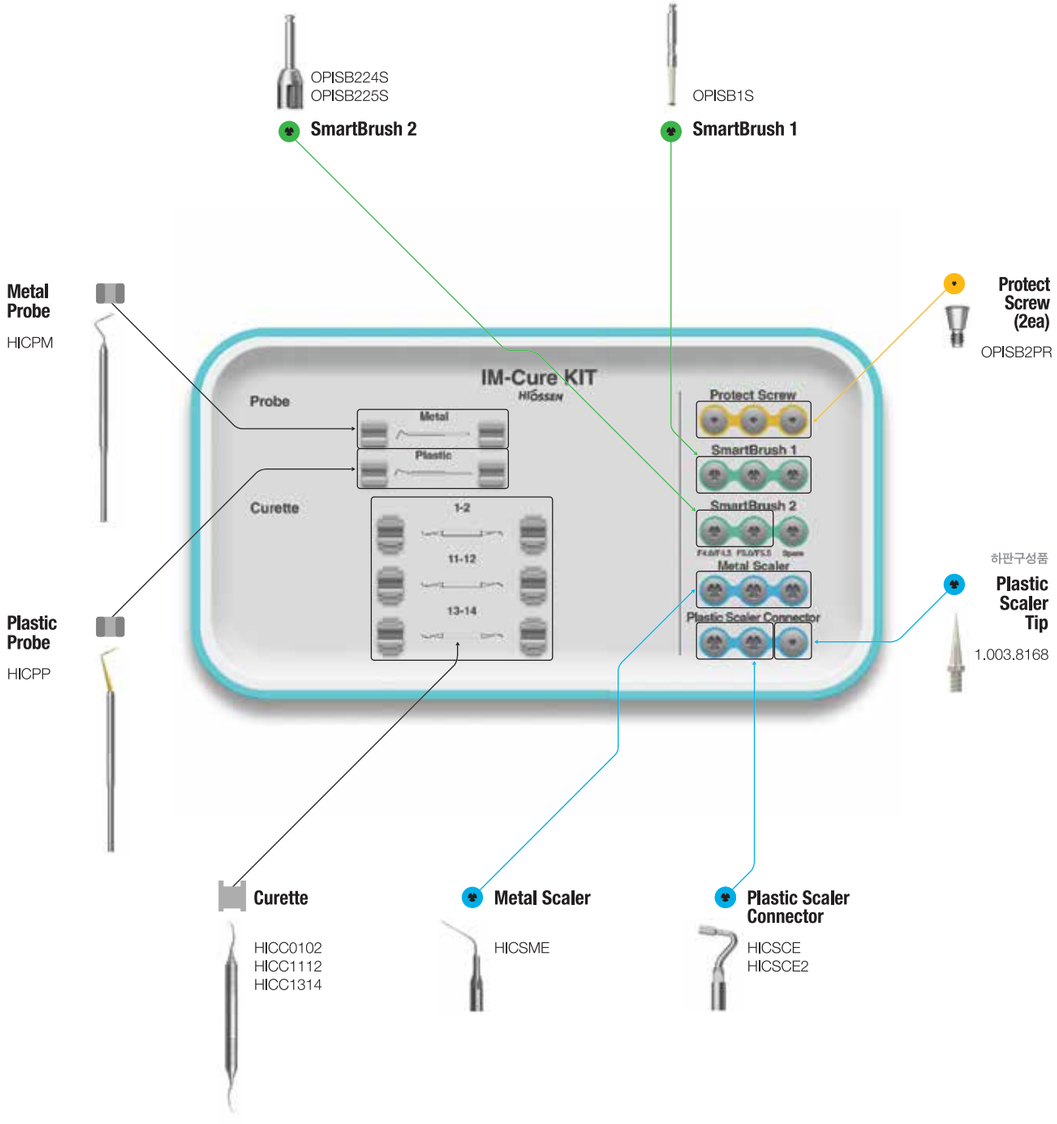
TQWCB

Depth Gauge

- Instrument to release excessive torque by rotating the hex of the expansion drill with an open wrench when the hand piece does not move with the expansion drill stuck in alveolar bone

ODG

IM-Cure KIT (HICK) 05.2018



IM-Cure KIT Surgical Instruments

Metal Probe

- Instrument to measure the depth of periodontal disease
- Measuring periodontal pockets and identifying the shape of the periodontal pockets such as depth/size
- Marking line for probing in 1 mm increments

HICPM

Plastic Probe

- Instrument to measure the depth of infection or periodontal disease around the implant
- Scratching of implant prevented by using plastic material
- Flexible probe suitable for the curved form of alveolar bone
- Autoclave can be used
- Marking line for probing in 1 mm increments

HICPP

Curette

- Instrument for removing subgingival sediment that is firmly attached to the granulation tissue of a specific area
- Gracey curette
- 01-02 : For removal of granulation tissue from anterior region
- 11-12 : For removal of granulation tissue from the mesial surface in anterior region
- 13-14 : For removal of granulation tissue from the distal surface in anterior region

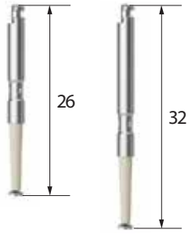
Type	01-02	11-12	13-14
	HICC0102	HICC1112	HICC1314

Protect Screw

- Preventing infiltration of foreign substances into the internal connection of the fixture using SmartBrush 2
- Tightened with 1.2 hex driver at 5Ncm

Type	Mini	Regular
	OPISB2PM	OPISB2PR

SmartBrush 1



- Used when cleaning Peri-implantitis
- Used after connecting the Protect Screw to the fixture after removing the patients prosthesis or abutment
- Recommended speed : 1,200~1,500 rpm
- Recommended use cycle : About 1 minute per thread
  ※ Do not use for longer than 4 minutes
- Be sure to polish with saline irrigation and suction

※ Disposable, Do not reuse (Be sure to discard after use)

L	
Short	OPISB1S
Long	OPISB1L

SmartBrush 2 11.2017

- Used for Peri-implantitis cleaning
- Used after connecting the Protect Screw to the fixture after removing the patients prosthesis or abutment
- Be sure to polish with saline irrigation and suction.
- Recommended speed : 1,200~1,500rpm
- Recommended use cycle : 1~2 minutes

※ Excessive use for longer than 3 minutes may result in fracture or bending of the product.

※ Disposable, Do not reuse (Be sure to discard after use)

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

Metal Scaler

Bending Possible

- Used for removing scale or foreign substance from the surface of the fixture by connecting to an ultrasonic scaler
- Used secondarily after using SmartBrush 1 or SmartBrush 2
- Bendable tip of the product for easy access
- EMS, KaVo and SATELEC types

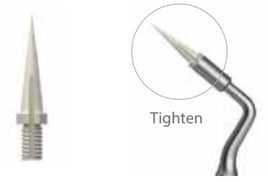
Type	EMS	KaVo	SATELEC
	HICSME	HICSMK	HICSMS

Plastic Scaler Connector

- Used by assembling to a plastic scaler tip
- Do not use for removing foreign substances from the fixture surface
- EMS, KaVo and SATELEC types
- A = Angle

A \ Type	EMS	KaVo	SATELEC
125°	HICSCE	HICSCK	HICSCS
100°	HICSCE2	HICSCK2	HICSCS2

Plastic Scaler Tip



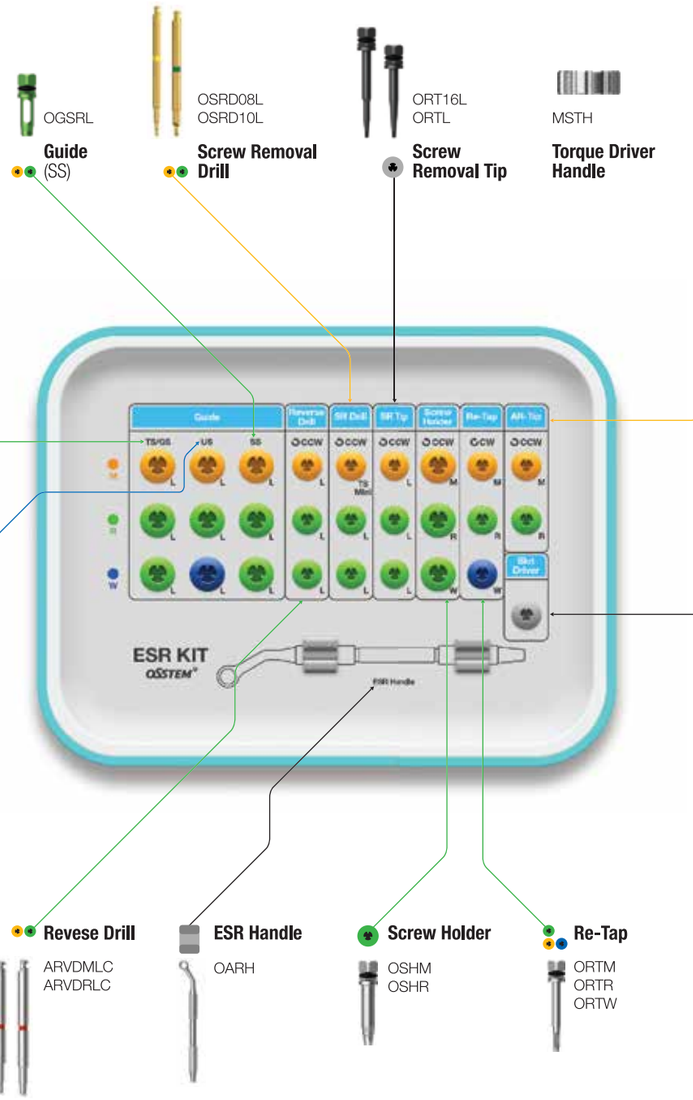
- Used for removing foreign substances from the abutment or crown by connecting to a SmartScaler

※ Do not use on the fixture surface

- Packing unit : 30ea/1set

1.003.8168

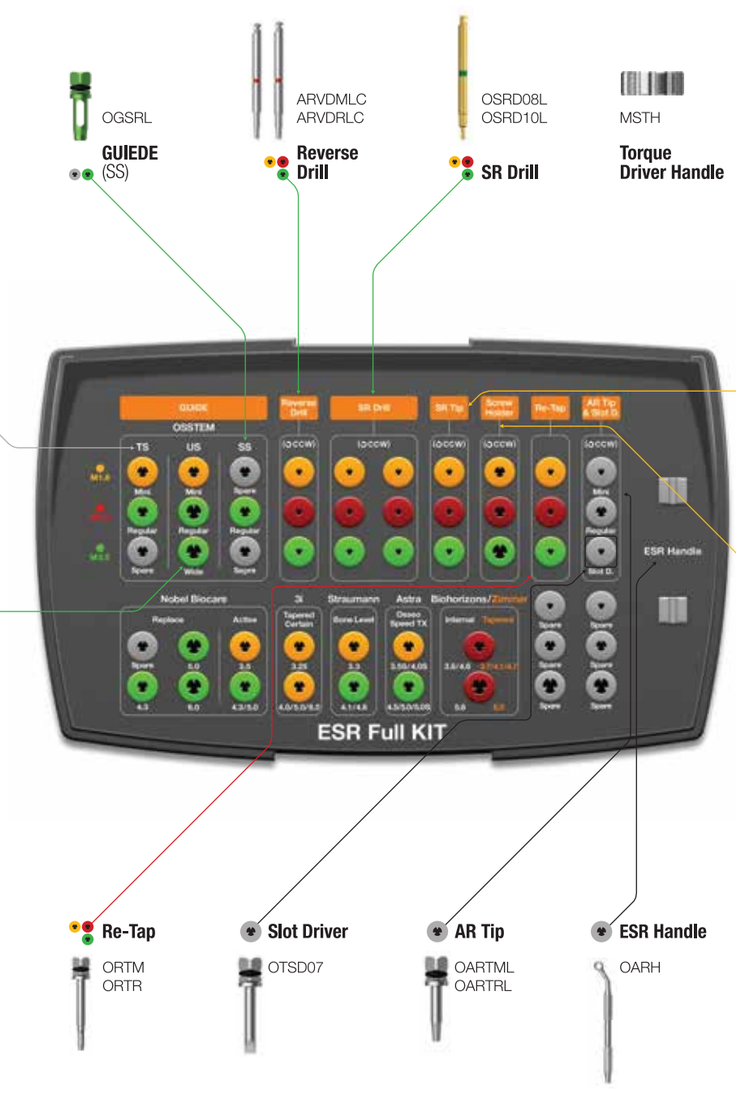
ESR KIT Easy Screw Removal KIT (OESRK) RENEWAL 2020



ESR Full KIT Easy Screw Removal Full KIT (OESRFK) 01.2018

- Including the same components as ESR KIT, which can hold the components provided by other companies

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

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	OGSTRS OGSTRL

Astra	Osseo Speed TX	Biohorizons	Internal	External	Zimmer	Tapered
	OGAO01L OGAO02L		OGZB01L OGZB02L	OGBES OGBEL		OGZB01L OGZB02L

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

Guide

- Centering and shaking prevention of SR Drill, SR Tip, etc. by connecting and fixing to the fixture
- Use according to fixture type and diameter
  (Internal, submerged type products of 6 overseas companies)
- Short or Long types selected according to the intermaxillary distance
- ■ Used in common
- C = Connection / F = Fixture

Osstem

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

Nobel Biocare

F \ Type	Active		Replace	
	Short	Long	Short	Long
Ø3.5	OGNA01S	OGNA01L	-	-
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)	OGSTRS	OGSTRL
RN (4.1)	OGSTRS	OGSTRL
RN (4.8)	OGSTRS	OGSTRL
WN (4.8)	OGSTRS	OGSTRL

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	OGBES	OGBEL
Ø6.0	OGBES	OGBEL

Reverse Drill 06.2017

- Instrument used for removing fractured screws
- Be sure to use with a suitable guide for the fixture
- When the red marking of the reverse driver is shown above the guide assembled to the fixture, use a screw holder to remove the fractured screw
- For hand mode / Rotating direction : Reverse rotation / Use cycle : 10 times

※ Do not use more than 10 times. Do not reuse

- 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) 12.2014

- Used for removal to form a hole in fractured screws
- Be sure to assemble the guide and remove the cut chips by suction with irrigation into the window
- Short and Long types according to the intermaxillary distance
- Drilling until the red line around the handle is not visible
- Recommended speed : Reverse rotation of 1,200~1,500rpm / Use cycle : 5 times

※ Be sure to use with a guide assembled. / Do not exert excessive vertical force. / Do not soak in hydrogen peroxide.

※ Disposable, Do not reuse

- Short : Sold separately

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

- Used by rotating with a hand after assembling with products such as SR tip, AR tip, and screw holder

MSTH

ESR Full KIT Surgical Instruments

Reverse Driver 10.2010

- Instrument used for removing fractured screws
- Be sure to use with a suitable guide for the fixture
- When the red marking of the reverse driver is shown above the guide assembled to the fixture, use a screw holder to remove the fractured screw
- For hand mode / rotating direction : reverse rotation / use cycle : 10 times

※ Do not use more than 10 times

- F = Fixture

Mini Regular/Wide

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

Screw Removal Tip (SR Tip)

- Removing fractured screws by rotating the screw removal tip in the hole in the fractured surface of the screws formed by using the screw removal drill(SR Drill)
- Rotating direction : Reverse rotation

※ Disposable, Do not reuse

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

Screw Holder

- Removing partially protruding fractured screws by assembling with a screw holder
- Color coded for easy type indication
- Rotating direction : Reverse rotation

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

Re-tap

- Instrument to restore the thread to the initial state when the screws cannot be fastened due to damage to the internal thread of the fixture
- Thread formed in hand mode with a Torque Wrench or ratchet wrench

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

ESR Handle 03.2013

- Instrument to fix the guide to the fixture

OARH

Abutment Removal Tip (AR Tip) 07.2017

- Used for partial fractured abutment, mount remaining and stuck in the fixture
- After assembling it to the fractured abutment hole and fixing in place, remove by shaking with a forcep, etc.
- Mini : removing screws with a slipped hex
  - After assembling it to the slipped hex, rotate in the reverse direction to connect to the screw for removal

Mini Regular

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

Slot Driver 10.2010

- Instrument to use by forming a slot with Ø0.8 bur, when force cannot be exerted using a driver due to the damaged hex of Healing Abutment, Cover Screw, or Abutment Screw

OTSD07

Transfer Abutment Separate Tool 01.2009

- Used to release the jamming caused by Non-hex Transfer Abutment stuck due to the contact of the fixture and the morse taper
- Common use, by using the body end for mini, placing regular into the 2nd groove
- It is easy to remove if the body and abutment are integrated by rotating the driver forward after removing the abutment screw and placing a separate tool body into the inner hole of the abutment
  If it is difficult to separate, use after connecting a ratchet wrench to the driver

Driver

Body

Driver	Body	Set
TASD	TASB	TAST

EFR KIT

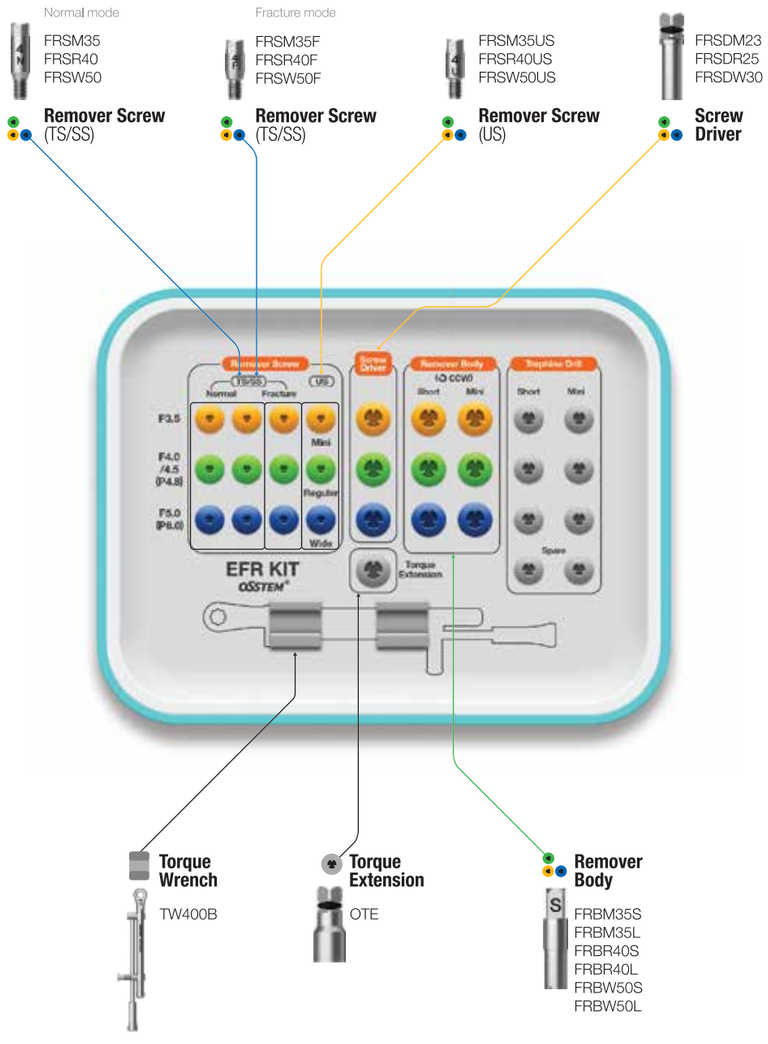
Easy Fixture Removal KIT (OSFRK)

RENEWAL 2020

For TSII / III | SSII / III | USII / III | KSIII | Ultra-wide

Top panel components

Fixture Wrench
FRDFE



EFR Full KIT

Easy Fixture Removal Full KIT (OSFRFK)

01.2018

- Including the same components as EFR KIT, which can hold the components provided by other companies

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

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

- Acting as a support structure for reverse rotation of the remover body after connected and fixed to the fixture
- Used according to the type and diameter of the fixture to remove (Internal/submerged type products of 6 overseas companies, normal/fracture)
- Fracture used for removing fixtures with the hex entirely fractured
- Compatible with products of 6 overseas companies
- Recommended tightening torque : Regular/Wide 80Ncm, Mini 60Ncm
- T = Type ※ Disposable, Do not reuse

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
KS	Normal	KSFRSM35	KSFRSR40	KSFRSW50
	Fracture	KSFRSM35F	KSFRSR40F	KSFRSW50F

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

- Driver to connect and fix the remover screw to the fixture
- Recommended remover screw tightening torque : Regular/Wide 80Ncm, Mini 60Ncm
- F = Fixture

F	Mini	Regular	Wide
	FRSDM23	FRSDR25	FRSDW30

Remover Body

- Instrument to exert torque in the fixture loosening direction by connecting to a remover screw
- Used according to the diameter of the fixture to remove

※ Disposable, Do not reuse

- 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

- Screw driver and remover body length extention (up to 10mm)

OTE

Torque Wrench

- Used to remove the fixture with the remover body after tightening with screw driver
- Torque applied up to 400Ncm (80/100/200/300/400Ncm scale display)
- Torque applied by aligning the center of the bar with the torque value to be applied by pulling the bar
- Washed and sterilized after use for storing

TW400B

Fixture Wrench

- Wrench to remove fixture from the remover body

FRDFE

Dr. Cho's Instrument KIT (DCHOKIT) 11.2017

- Optimal implant surgery KIT based on years of clinical know-how
- Consisted of 10 types of instruments (1ea each)

Periosteal Elevator (24G)

- Lifting mucosal periosteum after gingival tissue incision
- W : 4.2/4.0mm

EP24G-W

Minesota Retractor

- Securing a clear view by pilling the mouth, cheeks, etc.

RTCRM-W

Extension Hose Adapter

- Adapter for chair suction connection

SNKHA-W

Periosteal Elevator (Selden)

- Lifting mucosal periosteum after gingival tissue incision
- W : 10/13mm

EP23-W

Needle Holder (Crile-Wood, TC)

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

NHC150TC-W

Tissue Forcep (ADSON)

- Used to hold soft tissue
- No projections inside the beak
- L : 120mm (±5)

PT41-W

Periodontal Chisel

- Bone removal and formation
- W : 5.0mm

CHCO2-W

Extension Hose

- Extension hose for chair suction connection
- Autoclave can be used
- Transparent silicone material

SNKHS-1-W

Dr.Cho's Instrument Pouch

- Used for storing and sterilization of instruments
- L : 550 X 400mm

WPB-W

Titanium Suction Tip

- D(Inner Diameter) : 3.0mm

SN3TI-W

Osstem Basic Instrument KIT (OBKIT) 11.2017

- Universally used implant surgery KIT
- Consisted of 25 types of instruments (1ea each)

Periosteal Elevator (24G)

- Lifting mucosal periosteum after gingival tissue incision
- W : 4.2/4.0mm

EP24G-W

Scalpel Handle (Flat Type)

SHF-W

Pouch

- Used for storing and sterilization of instruments
- L : 470 X 400mm

WPA-W

Needle Holder

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

NH160TC-W

Mirror

MHC-DMCS4-W

Titanium Suction Tip

- D(Inner Diameter) : 3.0mm

SN3TI-W

Chisel

- Bone removal and formation
- Oschenbien & fedi (curved)
- W : 5.0mm

CHCO2-W

Hemostats

- Mosquito (curved)
- L : 130mm (±5)

HTM130C-W

Tissue Forcep ADSON

- No projections inside the beak
- L : 120mm (±5)

PT42-W

Osstem Basic Instrument KIT (OBKIT) 11.2017

Periosteal Elevator (Selden)

- In case of Genival tissue flap, retract and fix
- W : 10/13mm

EP23-W

Caliper

- Castroviejo

LPC90-W

Scissor (LaGrange)

- Compound (curved)
- L : 115mm (±5)

SCLC115-W

Bone Well

BWSUS1-W

Surgical Curettes (Gracey)

CGR11-12-W

Minesota Retractor

RTCRM-W

Surgical Curettes (Surgical Curettes, CM11)

URCM11-W

Towel Clamp

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

CPTC135-W

Periosteal Elevator (MOLT9)

- Lifting mucosal periosteum after gingival tissue incision
- W : 10/13mm

EP9-W

Tweezer (Wide)

- L : 155mm

PCW150-W

Scalpel Handie (Straight Type)

SHS-W

Bone Rongeurs

- Friedman
- L : 140mm (±5)

RNGF140-W

Scissor (Tissue Scissor)

- Straight
- L : 150mm (±5)

SCTC115-W

Surgical Curettes (Surgical Curettes, CM10)

URCM10-W

Mallet

- Autoclave can be used

ML25-W

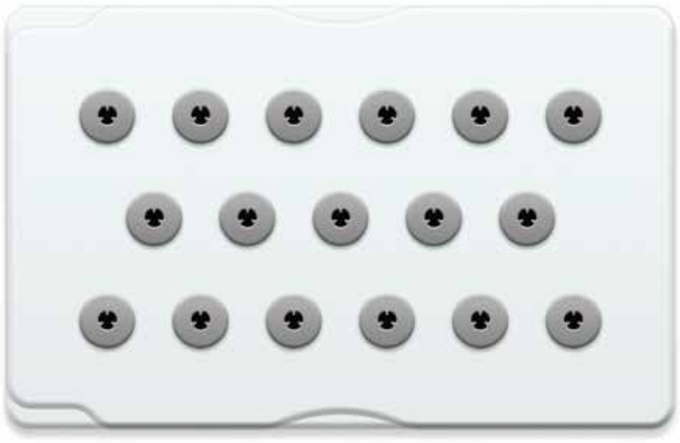
Periosteal elevator (Prichard)

- W : 11/4.9mm

EPPR3-W

Custom KIT (OCTK) 01.2009

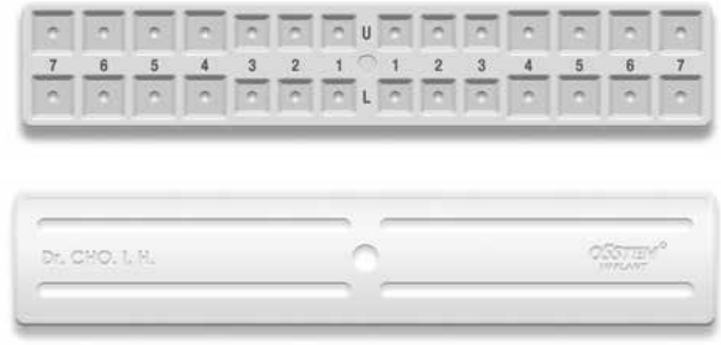
- KIT used to disinfect some of the surgical instruments or to store new spare tools
- Additional 3 types of rubber (large, medium, small) which can be used according to user preference
- Sterilizable material (132°C, 15 minutes)



Healing Case (OHAC) 02.2018

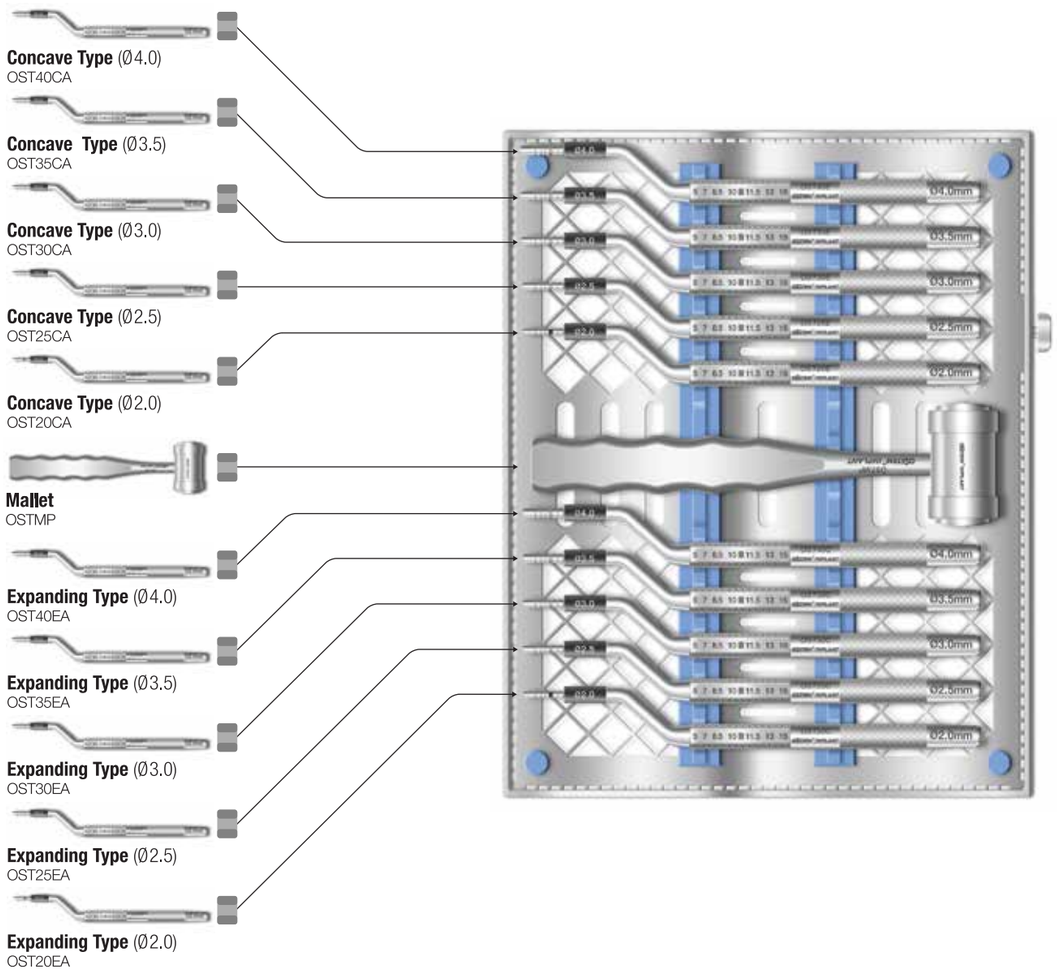
- Case for temporary storage and cleaning of Healing Abutment during the prosthesis procedure
  - Upper prosthesis for additional mounting : Transfer / Temporary / Angled / Cover Screw / Pick-up & Transfer Impression coping / OB Anchor / temporary crown (Only the Healing Abutment can be combined with the top plate.)
- Like the tooth arrangement, a total of 28 cells are composed of 7 cells each in the upper / lower and left / right sections
- Sterilizable material (132°C, 15 minutes), sterilization required for reusing the case

※ This product is not a case for reuse of Healing Abutment



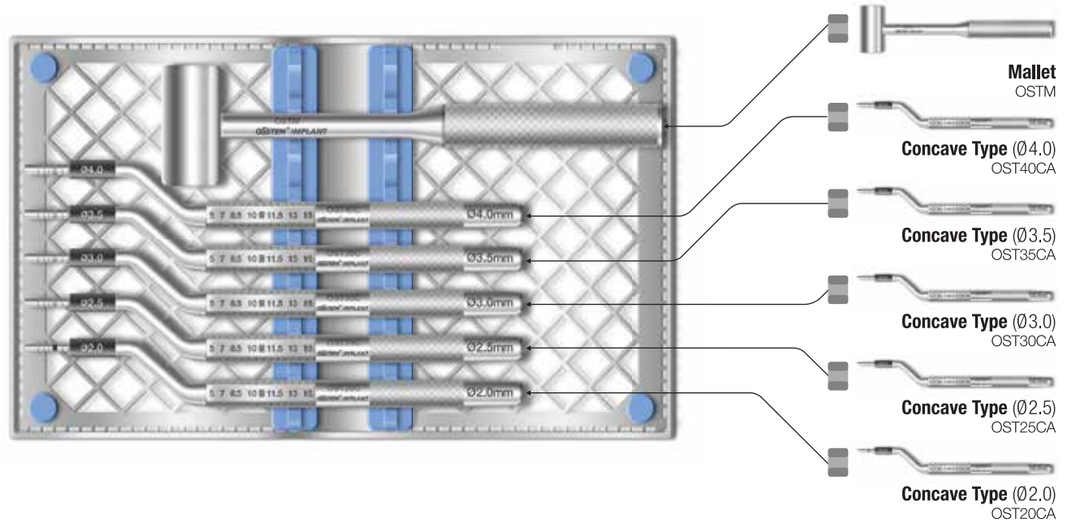
Osteo KIT (OSTK) 01.2009

- KIT used for maxillary sinus floor elevation to vertically increase the amount of alveolar bone available in the maxillary anterior region
- Expanding osteotome : KIT used to increase the initial fixation stability of the implant by densifying the trabeculae of bone while preserving the bone instead of removing it from low quality bones
- Stopper for adjusting the depth of procedure



Osteotome KIT (AOST) 09.2011

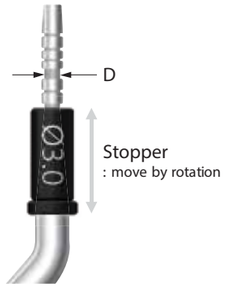
- KIT used for maxillary sinus floor elevation to vertically increase the amount of alveolar bone available in the maxillary anterior region
- Concave type only
- Stopper for adjusting the depth of procedure



Osteotome Stopper 05.2018

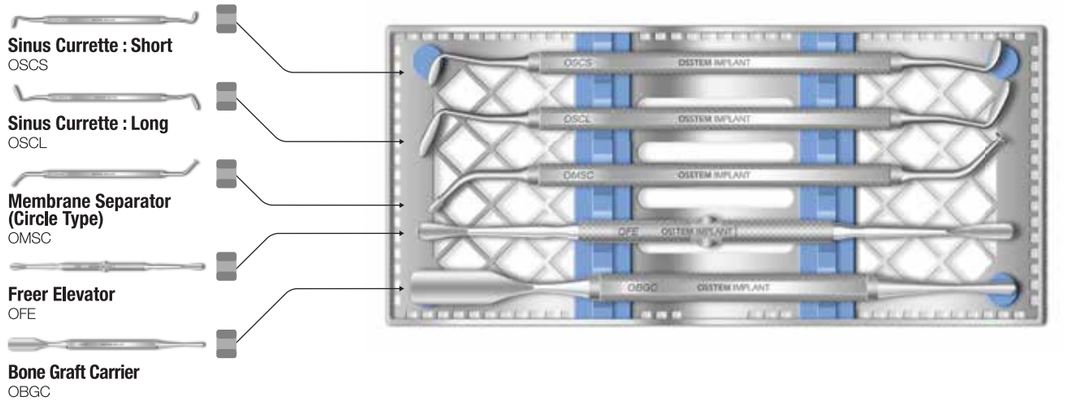
- Stopper for procedure depth adjustment, sold separately

D	Ø 2.0	Ø 2.5	Ø 3.0	Ø 3.5	Ø 4.0
	OST20SH	OST25SH	OST30SH	OST35SH	OST40SH



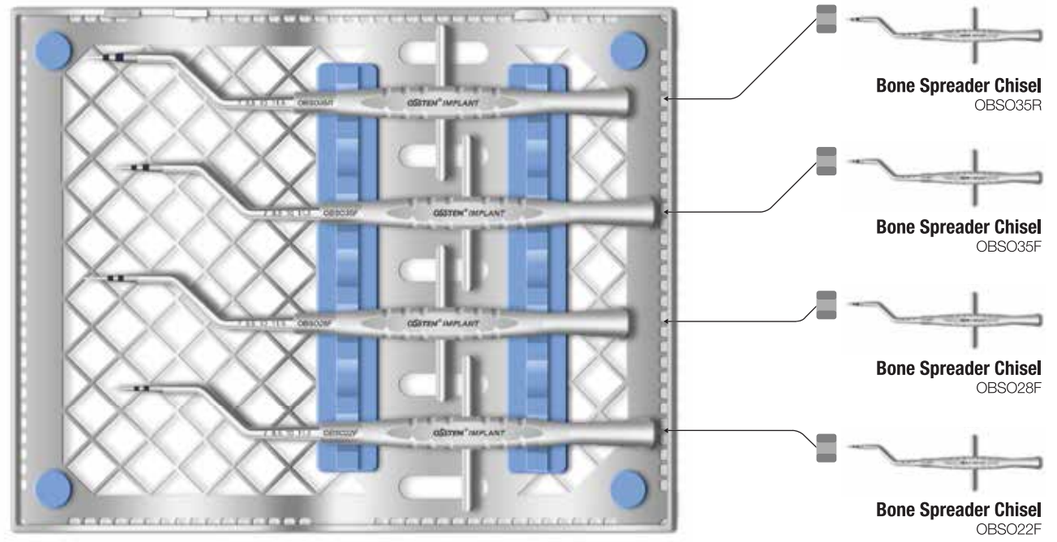
Sinus KIT (ASLK) 01.2009

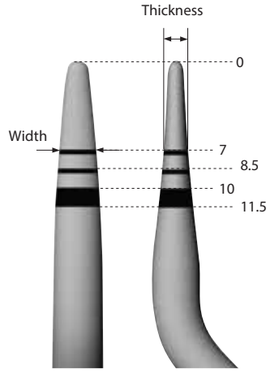
- KIT containing various tools for maxillary sinus floor elevation (sinus procedure)
- Lateral approach instrument for sinus
- Components (5 types)
  - Freer elevator : OFE
  - Bone Graft Carrier : OBGC
  - Membrane Separator (Circle type) : OMSC
  - Sinus Currette-Short : OSCS
  - Sinus Currette-Long : OSCL



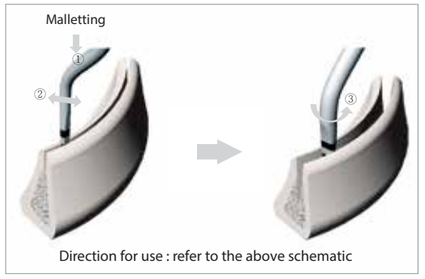
Bone Spreader KIT (OBSOK) 01.2009

- KIT used for expanding narrowed alveolar ridge
- Offset type convenient for surgery
- Components (4 types)
  - OBSO22F, OBSO28F, OBSO35F, OBSO35R





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



Direction for use : refer to the above schematic

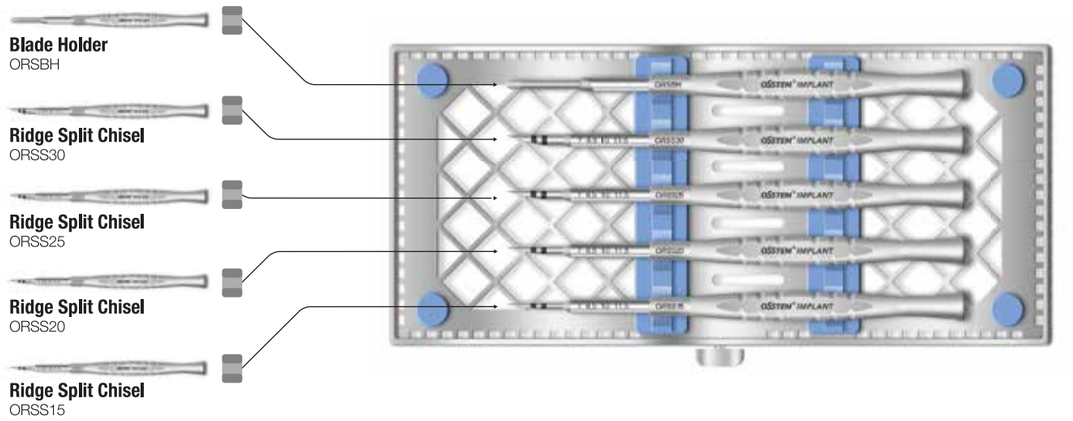
(Unit : mm)

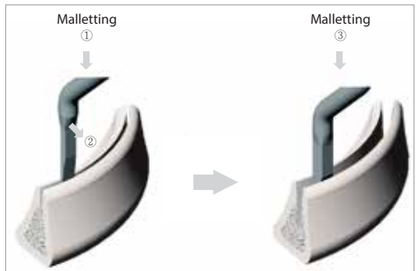
Code \ Tip length / Spec.		7	8.5	10	11.5
OBSO22F	Thickness	1.15	1.3	1.45	1.6
	Width	2.1	2.2	2.2	2.2
OBSO28F	Thickness	1.15	1.3	1.45	1.6
	Width	2.65	2.8	2.8	2.8
OBSO35F	Thickness	1.3	1.45	1.6	1.8
	Width	3.3	3.5	3.5	3.5
OBSO35R (round type)	Thickness	1.85	2.1	2.3	2.55
	Width	3.3	3.5	3.5	3.5

Ridge Split KIT Straight (ORSSK) 01.2009

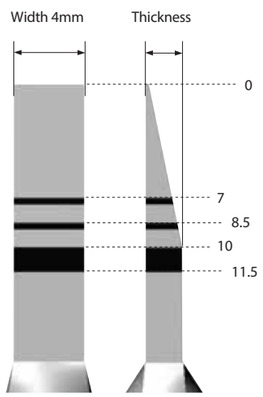
Straight

- Chisel : Used for expanding narrowed alveolar ridge
- Blade Holder : Malleting enabled by tightening a #15 blade when it is difficult to make a bone incision using bur due to low bone quality
- Components
  - Ridge Split Chisel : ORSS15, ORSS20, ORSS25, ORSS30
  - Blade Holder : ORSBH





Directions for use : refer to the above schematic



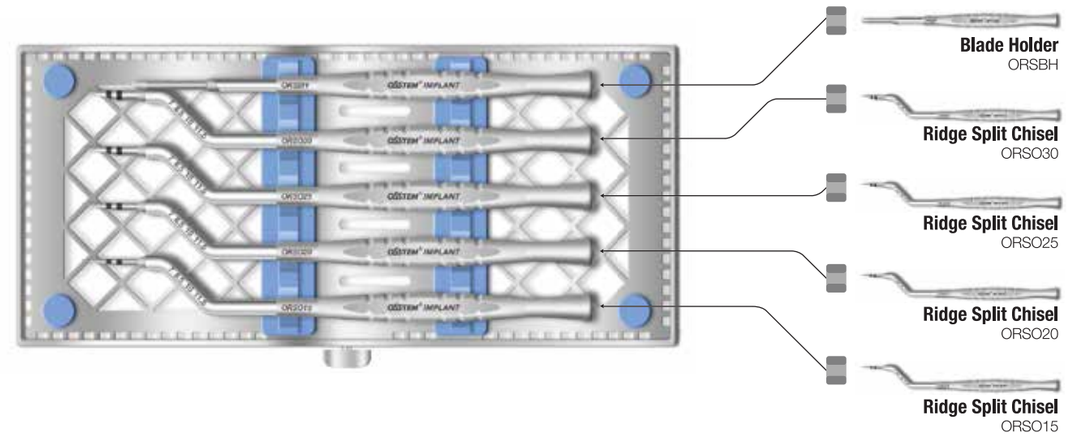
(Unit : mm)

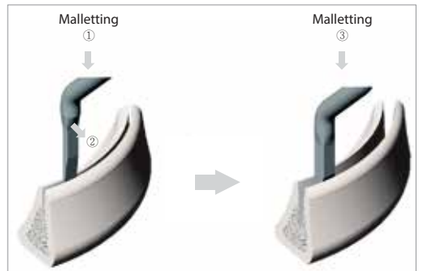
Code \ Spec. \ Tip length		7	8.5	10	11.5
ORSS15	Thickness	1.1	1.27	1.5	1.5
	Width	4	4	4	4
ORSS20	Thickness	1.45	1.7	2.0	2.0
	Width	4	4	4	4
ORSS25	Thickness	1.8	2.15	2.5	2.5
	Width	4	4	4	4
ORSS30	Thickness	2.15	2.5	3.0	3.0
	Width	4	4	4	4

Ridge Split KIT Offset (ORSOK) 01.2009

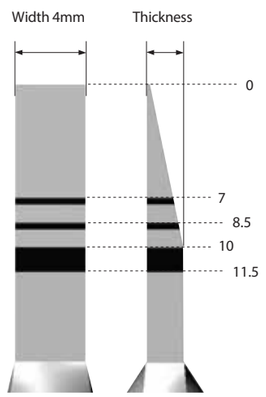
Offset

- Chisel : Used for expanding narrowed alveolar ridge
- Blade Holder : Malleting enabled by tightening a #15 blade when it is difficult to make a bone incision using bur due to low bone quality
- 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

User Manual

2017.08 ver.5.5 "Disposable, re-use prohibited, medical instruments"

Osstem Implant System product description

Osstem Implant offers a variety of dental bone graft materials, as well as fixtures made of medical grade titanium. Osstem Implant's abutments, prosthetic materials and surgical tools are only compatible with Osstem Fixtures. If used with products of other manufacturers, it may cause problems including loosening and fractures due to incomplete tightening and compatibility. For more details about any individual product, please refer to the user manual, catalog or visit our company website (www.osstem.com). Please check the product labels for product codes, specifications, date of manufacture and expiration date.

Sterilization

Fixtures, cover screws and Healing Abutments are pre-cleaned and sterilized by gamma rays. These products are sterile, disposable medical instruments and must be handled in a sterile field using sterilized tools to prevent contamination and infection of the product or treatment area. If the package has been opened, damaged or has expired, the product must be discarded due to the risk of contamination, infection and bone graft failure. If re-sterilized or re-used, the product may result in infection, osseointegration failure, and damage to implants due to reduced precision.

Storage conditions

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

General precautions

Warningal implant surgical techniques involves professional and complex processes. To perform dental implant surgery, relevant formal training and education is required. If the patient has bone disease (osteoporosis, osteomalacia) or metabolic bone disorders, special considerations should be given to these conditions prior to surgery.

Precautions

Suitability of bone and proper surgical procedures should be taken into aacount when determining an implant surgery. Proper implant should be prepared in consideration of anticipated situations and precautions. 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 radiographic examinations are essential to determine basic presurgical information, occlusal conditions and adequacy of the bone. Adequate radiographs, surgical planning and visual inspection of the implant site are required prior to implant surgery.

Procedural precautions

Osstem Implant System is for single- or two-stage procedure. Special attention should be paid to temperature, surgical lesions and removal of the sources of contamination and infection in an attempt to minimize damage to the cell tissue. All drills and taps must be continuously and sufficiently irrigated for cooling. Implant placement should be accomplished at very low speed (25~30 rpm) or manually. Excessive torque (greater than 55Ncm) 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 or 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 which integrates with Angled Abutment may be fractured due to limitations of structural rigidity. They are not recommended for use in a posterior area. Ultra-wide Fixtures are intended to be used only in the posterior region and should not be used with Angled Abutments.

If considering the Ultra-wide fixtures, radiographic evaluation should be performed to determine the bone mass and potential anatomical restrictions. Short implants (diameter greater than 5mm, shorter than 7mm) are only used for the posterior region. Clinicians must thoroughly examine the patient for any of the following conditions: 1) Peri-implant bone loss, 2) Changes to implant's response to percussion, 3) Vertical changes in the osseointegrated fixtures determined by X-ray. If a short implant shows loosening or greater than 50% bone loss, the implant should be considered for possible removal. Clinicians should consider a two-stage surgical approach, splinting with other implants and placement of the widest possible diameter fixture. Allow sufficient healing time for osseointegration before 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. Avoid applying HA-coated fixtures to hard bone because damage and cracks might occur in the coated layer. It is recommended that the insertion torque of the implant be less than 35Ncm. The surfaces of CA and SOI have the same physical shape as the SA surface made through blasting and etching treatments. These surfaces are designed to maintain the SA surface chemically-activated by encasing CA in a solution and SOI in a hydrophobic coating after the SA surface treatment to prevent the product from being exposed to air. Thus, CA or SOI products should be placed in the target region at least within 15 minutes after removal from the vial.

Warning

Improper patient selection and treatment planning may result in dental implant failure or loss of bone supporting the implant. Osstem Implant System must not be used for purposes other than intended and must not be altered in any shape or form. Implant loosening, bone loss and chronic infections can result in implant failure.

Indications for use

Osstem Implant System is an artificial dental root that has been designed for use in dental implant treatment for restoring missing teeth. It can be placed via surgical procedures in maxillary or mandibular bone to replace natural dental root. The System is intended for use in fabricating temporary or final appliances in the form of cement-retained, screw-retained, overdenture and fixed-bridge to replace a single tooth or multiple teeth in the maxillary/mandibular region or for partially or fully edentulous patients. 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

There are possible side effects after implant surgery (loss of implant stability, damaged prosthesis, etc.). These issues can be caused by the lack of available bone or poor bone quality, infection, patient's poor oral hygiene or non-compliance with post-op procedures, allergic reaction, movement of the implant, degradation of surrounding tissue, or improper placement/arrangement of the implant.

Contraindications

Contraindications include the following, but are not limited to:
- Patients with hemophilia or issues related to bone or wound treatment
- Patients with uncontrollable diabetes or patients that smoke or drink excessively
- Patients with compromised immune systems due to disease or chemo/radiation therapy
- Patients with oral infection or inflammation (improper oral hygiene or bruxism)
- Patients with incurable malocclusion/joint disorder and insufficient dental arch space
- Patients who are not suitable for surgery.

Manufacturer : Osstem Implant Co., Ltd.
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TEL 82-51-850-2500 **FAX** 82-51-861-4693

EC REP

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Storage condition
Dry place at room temperature

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

CE 2460	STERILE R Sterilized using irradiation	Use by	Manufacture
PG	Do not reuse	Date of manufacture	Keep away from sunlight
Do not use, if package is damaged	REF Catalogue number	NON STERILE Non-Sterile	Keep dry
	LOT Batch code	Do not resterilize	Caution, Consult accompanying documents

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