HIOSSEN SURGICAL KITS

PRODUCT CATALOG

HIOSSEN IMPLANT

Hiossen Surgical Kit

Version: PC26HSKLTR1.0

The President's "E" Award
Recognizing Excellence in Exporting

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Hiossen Surgical Kits

GUIDED SURGERY KITS

ET/EK OneGuide Kit	004
OneCAS Kit	016
OneEM Kit	022
One485 Kit	028

IMPLANT GURGERY KITS

122 Taper Kit	032
Taper Kit & Taper Ultra Kit	040
485 Kit	052
Assist Kit	056
Ultra Kit	060

PROSTHETIC & MAINTENANCE KITS

Prosthetic Simple Kit & Prosthetic Kit	068
ESR Kit & ESR Full Kit	076
EIR Kit & EIR Full Kit	082
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NARROW RIDGE SURGERY KITS

ESSET Kit	100
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SURGICAL INSTRUMENTS

Surgical Instruments Kit	104

ET OneGuide Kit (HOGK)

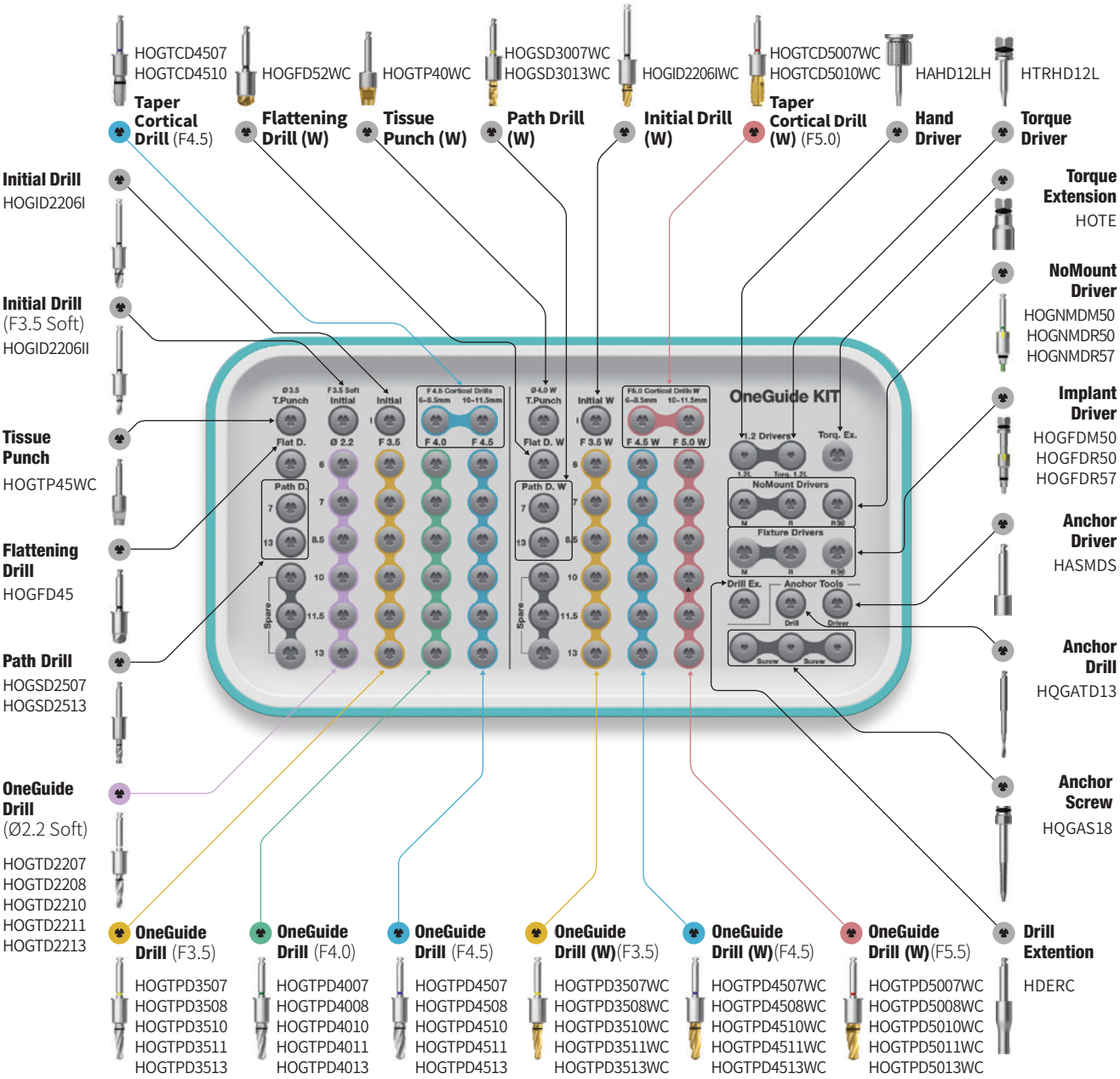
Top panel components

Torque Wrench
TQWCB

Depth Gauge
ODG

For

ETIII/IV SSII/III



Unit of Measurement: mm

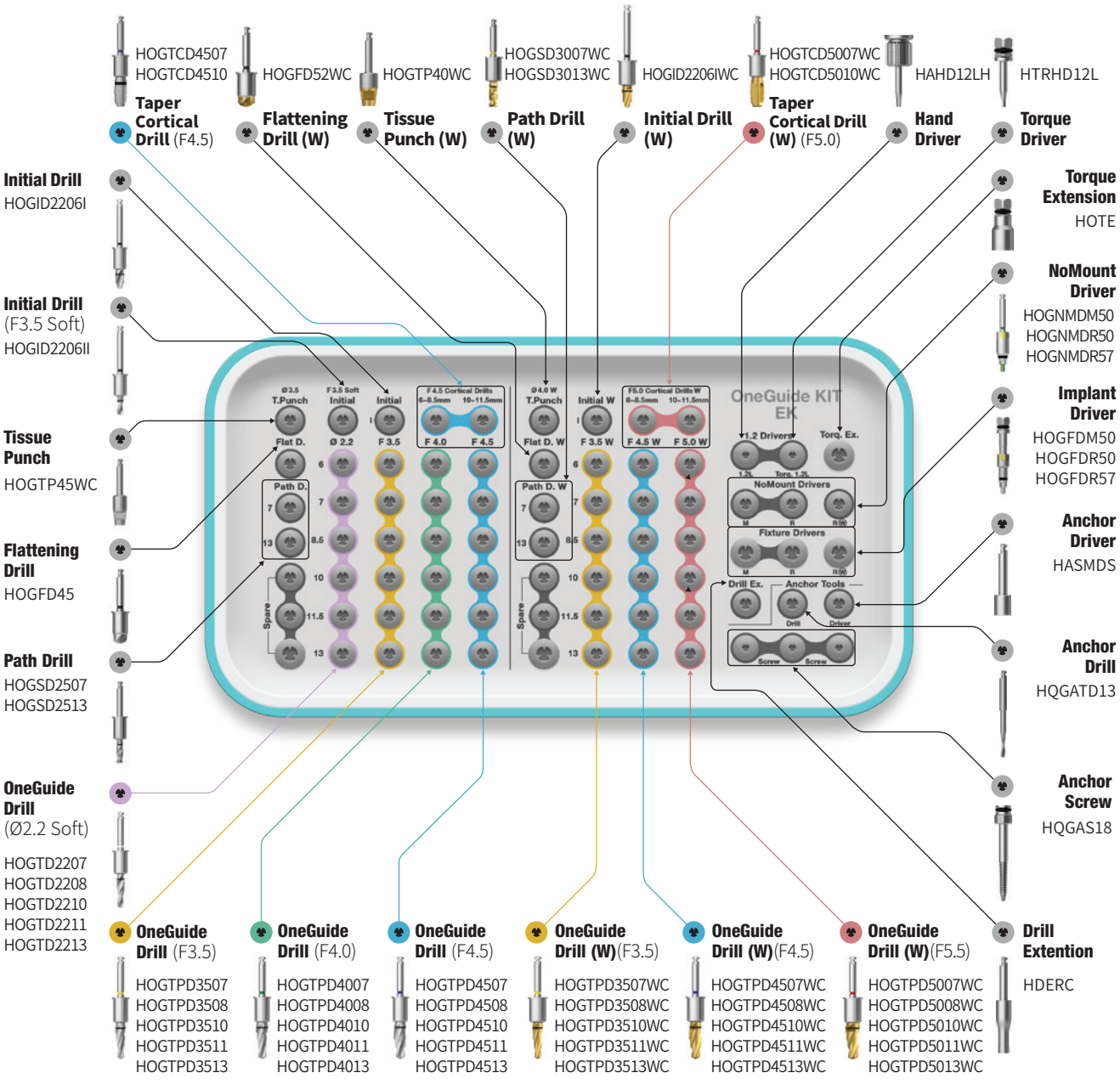
EK OneGuide Kit (HKOGK)

For EKIII SSII/III

Top panel components

Torque Wrench
TQWCB

Depth Gauge
ODG

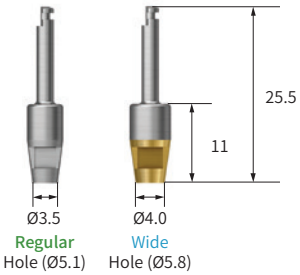


OneGuide Kit Surgical Kit Instruments

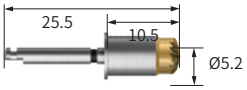
OneGuide Template

Description	Image
• Two sizes of guide holes depending on the diameter of the implant - D5.0 for implant diameters: F3.5/4.0/4.5 - D5.8 for implant diameter: F5.0 • Dual contact feature ensures excellent accuracy in positioning and stability • Simple drilling sequence by adopting 122 Taper Kit concepts • Packing unit: surgical guide (optional: SmartFit abutment, Temporary Crown)	

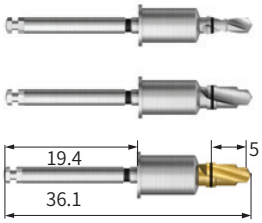
Tissue Punch

Description	D/Ø	**Regular** Hole (Ø5.1)	**Wide** Hole (Ø5.8)	Image/Guide
• Used to remove gingiva flaplessly • 7 types according to the OneGuide guide holes • Drills except two types are not included in the Kit (HOGTP35R, HOGTP40WC) and are sold separately • Recommended speed: 800 ~ 1,200 rpm	**Ø3.0**	HOGTP30R	-	
	Ø3.5	HOGTP35R	-	
	Ø4.0	HOGTP40R	HOGTP40WC	
	Ø4.5	HOGTP45R	HOGTP45WC	
	Ø5.0	-	HOGTP50WC	

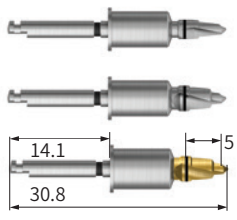
Flattening Drill

Description	D/Ø	**Regular** Hole (Ø5.1)	**Wide** Hole (Ø5.8)	Image/Guide
• Used for flattening narrow or irregular bone ridges, before initial drill • Multiple cutting edge designed to prevent drill bouncing • 2 Types (Below F5.0/for F5.0) • Recommended speed: 800 ~ 1,200 rpm	**Ø4.5**	HOGFD45	-	
	Ø5.2	-	HOGFD52WC	

Initial Drill

Description	D/Ø	**Regular** Hole (Ø5.1)	**Wide** Hole (Ø5.8)	Image/Guide
• Used after Tissue Punch for initial drilling • Secures depth for subsequent drills for more stability • Available in 3 types: (F3.5 soft bone/below F5.0/for 5.0) • Recommended speed: 800 ~ 1,200 rpm	**Ø3.5** (Soft)	HOGID2206II	-	
	Ø4.0/Ø4.5	HOGID2206I	-	
	Ø5.0 (W)	-	HOGID2206IWC	

Initial Drill (Short Type)

Description	D/Ø	**Regular** Hole (Ø5.1)	**Wide** Hole (Ø5.8)	Image/Guide
• Short type Initial Drill (5.3mm shorter) • Used for limited intermaxillary space • Available in 3 types: (F3.5 soft bone/below F5.0/for 5.0) • Recommended speed: 800 ~ 1,200 rpm	**Ø3.5** (Soft)	HOGD2206IIS	-	
	Ø4.0/Ø4.5	HOGD2206IS	-	
	Ø5.0 (W)	-	HOGD2206ISWC	

Unit of Measurement: **mm**

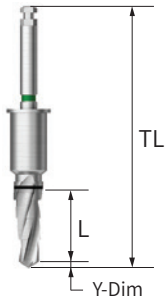
OneGuide Kit Surgical Kit Instruments

OneGuide Drill

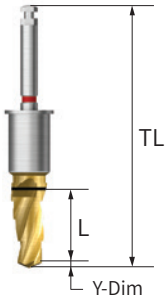
Description/Item code

- Taper Drill optimized for III/IV type implant
- Used for placing F3.5 ~ F5.0 & 6 ~ 13mm implants
- Multi-step drill design allows for stable drilling
- Drills for 6mm and F5.5(W) types are sold separately
- Recommended speed: Soft Bone (800 ~ 1,200 rpm) / Normal, Hard Bone (1,200 ~ 1,500 rpm)

Below F5.0 Regular Hole (Ø5.1)		D/Ø	Ø3.5	Ø4.0	Ø4.5		Image/Guide
		Y-Dim.	0.7	0.9	1.0		
L	TL	GD	5.0	5.0	5.0		
6	36.1		HOGTPD3506	HOGTPD4006	HOGTPD4506		
7	36.1		HOGTPD3507	HOGTPD4007	HOGTPD4507		
8.5	36.1		HOGTPD3508	HOGTPD4008	HOGTPD4508		
10	36.1		HOGTPD3510	HOGTPD4010	HOGTPD4510		
11.5	37.6		HOGTPD3511	HOGTPD4011	HOGTPD4511		
13	39.1		HOGTPD3513	HOGTPD4013	HOGTPD4513		



Below F5.0 Wide Hole (Ø5.8)		D/Ø	Ø3.5 (w)	Ø4.5 (w)	Ø5.0 (w)	Ø5.5 (w)	Image/Guide
		Y-Dim.	0.7	0.9	1.0	1.0	
L	TL	GD	5.7	5.7	5.7	5.7	
6	36.1		HOGTPD3506WC	HOGTPD4506WC	HOGTPD5006WC	HOGTPD5506WC	
7	36.1		HOGTPD3507WC	HOGTPD4507WC	HOGTPD5007WC	HOGTPD5507WC	
8.5	36.1		HOGTPD3508WC	HOGTPD4508WC	HOGTPD5008WC	HOGTPD5508WC	
10	36.1		HOGTPD3510WC	HOGTPD4510WC	HOGTPD5010WC	HOGTPD5510WC	
11.5	37.6		HOGTPD3511WC	HOGTPD4511WC	HOGTPD5011WC	HOGTPD5511WC	
13	39.1		HOGTPD3513WC	HOGTPD4513WC	HOGTPD5013WC	HOGTPD5513WC	

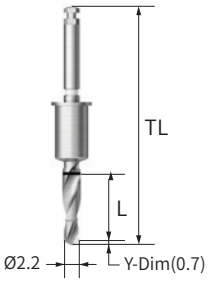


Twist Drill

Description

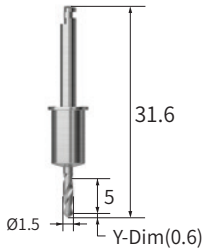
- Used to place F3.5 implants in soft bone
- Available in 5 types
- Recommended speed: 800 ~ 1,200 rpm

F3.5 Soft Bone Regular Hole (Ø5.1)		D/Ø	Ø2.2	Image/Guide
		Y-Dim.	0.7	
L	TL	GD	5.0	
7	36.1		HOGTD2207	
8.5	36.1		HOGTD2208	
10	36.1		HOGTD2210	
11.5	37.6		HOGTD2211	
13	39.1		HOGTD2213	

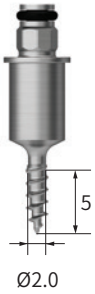


OneGuide Kit Surgical Kit Instruments

OneGuide Vertical Twist Drill

Description	D/Ø	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)	Image/Guide
• Used for drilling before OneGuide Anchor • Sold as an individual item • Recommended speed: 800 ~1,200 rpm	**Ø1.5**	HOGTD1506	HOGTD1506W	

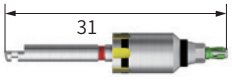
OneGuide Vertical Bone Anchor

Description	D/Ø	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)	Image/Guide
• Used for fixing the OneGuide in place (e. g. edentulous case) • Mounted on the alveolar bone vertically to fix OneGuide in place • Soft bone: placed directly • Normal/hard bone: placed after using the OneGuide Vertical Drill • Tighten at 20 rpm with Anchor Driver • Sold as an individual item	**Ø2.0**	HOGBAR	HOGBAW	

OneGuide Vertical Implant Anchor

Description	D/Ø	Regular Hole (Ø5.1)	Wide Hole (Ø5.8)	Image/Guide
• Used for fixing OneGuide in place (e. g. edentulous case) • Mounted on the implant vertically to fix OneGuide in place • Tighten with 1.2 hex Hand Driver • Only used for Regular connection of F4.0 or greater • Sold as an individual item	**Ø2.0**	HOGFAR	HOGFAW	

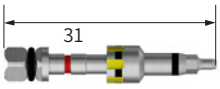
OneGuide NoMount Driver for ET

Description	*C	D/Ø	Item code	Image/Guide
• Used to place a NoMount implant • It is recommended to place the implant ~80% of the planned implant depth with this driver • *C = Connection	**F3.5**	**Mini** Regular Hole (Ø5.1)	HOGNMDM50	
	F4.0/4.5	**Regular** Regular Hole (Ø5.1)	HOGNMDR50	
	F5.0	**Regular** Wide Hole (Ø5.8)	HOGNMDR57	

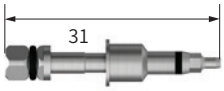
Unit of Measurement: **mm**

OneGuide Kit Surgical Kit Instruments

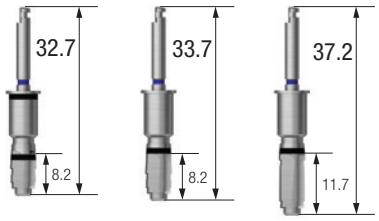
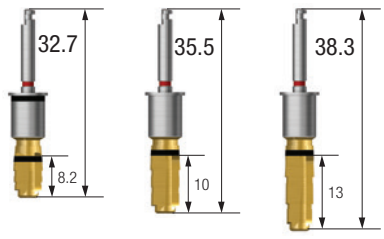
OneGuide Implant Driver for ET

Description	*C	D/Ø	Item code	Image/Guide
• Used with a wrench for finishing the final implant placement • Yellow groove aligns the abutment hex direction • Match the grooves on the OneGuide template with the grooves on the driver • *C = Connection	F3.5	**Mini** Regular Hole (Ø5.1)	HOGFDM50	
	F4.0/4.5	**Regular** Regular Hole (Ø5.1)	HOGFDR50	
	F5.0 (W)	**Regular** Wide Hole (Ø5.8)	HOGFDR57	

Implant Driver (Stopper Type)

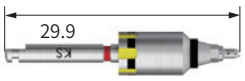
Description	*C	D/Ø	Item code	Image/Guide
• Featuring stopper design to prevent entry below the upper surface of OneGuide hole • Sold as an individual item • *C = Connection	F3.5	**Mini** Regular Hole (Ø5.1)	HOGFDSM50	
	F4.0/4.5	**Regular** Regular Hole (Ø5.1)	HOGFDSR50	
	F5.0 (W)	**Regular** Wide Hole (Ø5.8)	HOGFDSR57	

OneGuide Taper Cortical Drill

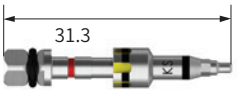
Description	L	**Regular** Hole (Ø5.1)	Image/Guide
• Used for placing F4.5 and F5.0 implants in hard bone • Optimize placement by cutting cortical bone • Drills for 13 mm diameter implant is sold separately • Drilling up to the first black line for 6mm placement • Recommended speed: 800 ~ 1,200 rpm	6 / 7 / 8.5mm	HOGTCD4507	
	10 / 11.5mm	HOGTCD4510	
	13mm	HOGTCD4513	6~8.5mm 10~11.5mm 13mm
	L	**Wide** Hole (Ø5.8)	
	6 / 7 / 8.5mm	HOGTCD5007WC	
	10 / 11.5mm	HOGTCD5010WC	
	13mm	HOGTCD5013WC	6~8.5mm 10~11.5mm 13mm

OneGuide Kit Surgical Kit Instruments

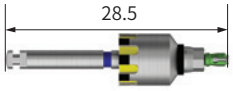
OneGuide No Mount Driver for EK

Description	*C	D/Ø	Item code	Image/Guide
• Used for placing EK NoMount Implants • Recommended to place ~80% of the planned implant depth with this driver • Sold as an individual item • *C = Connection	F3.5	Regular Regular Hole (Ø5.1)	HOGNMDM50K	
	F4.0/4.5		HOGNMDR50K	
	F5.0	Regular Wide Hole (Ø5.8)	HOGNMDR57K	

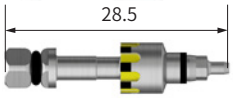
OneGuide Implant Driver for EK

Description	*C	D/Ø	Item code	Image/Guide
• Used with a wrench for finishing the final implant placement • Yellow groove aligns the abutment hex direction • Match the grooves on the OneGuide template with the grooves on the driver • Sold as an individual item • *C = Connection	F3.5	Regular Regular Hole (Ø5.1)	HOGFDM50K	
	F4.0/4.5		HOGFDR50K	
	F5.0	Regular Wide Hole (Ø5.8)	HOGFDR57K	

OneGuide NoMount Driver for SS

Description	*P	D/Ø	Item code	Image
• Used for placing SS NoMount Implants • Recommended to place ~80% of the planned implant depth with this driver • *P = Platform	F3.5/F4.0/4.5	Mini Regular Hole (Ø5.1)	HOGNMDR50S	
	F5.0	Regular Wide Hole (Ø5.8)	HOGNMDR57S	
	F5.0	Wide Extra Wide Hole (Ø6.8)	HOGNMDW67S	

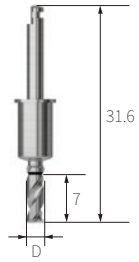
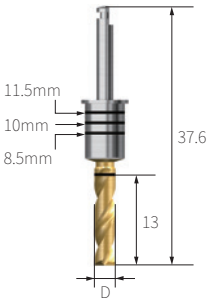
OneGuide Implant Driver for SS

Description	*P	D/Ø	Item code	Image
• Used with a wrench for finishing the final implant placement • Yellow groove aligns the abutment hex direction • Match the grooves on the OneGuide template with the grooves on the driver • Sold as an individual item • *P = Platform	F3.5/F4.0/4.5	Mini Regular Hole (Ø5.1)	HOGFDR50S	
	F5.0	Regular Wide Hole (Ø5.8)	HOGFDR57S	
	F5.0	Wide Extra Wide Hole (Ø6.8)	HOGFDW67S	

Unit of Measurement: mm

OneGuide Kit Surgical Kit Instruments

OneGuide Path Drill

Description	L		Regular Hole (Ø5.1)	Wide Hole (Ø5.8)	Image/Guide
• Drill for correcting path deviation during OneGuide surgery • Used for creating implant placement path for extraction cases • Flat blade design optimized for cutting inclined bone • 4 types for each Oneguide hole diameter, 8 types in total: Regular hole (Ø5.1) / Wide hole (Ø5.8) • For 13mm drills, depth is adjusted according to the black lines • Recommended speed: 1.200 ~ 1,500 rpm	7	Ø2.5	HOGSD2507	HOGSD2507WC	
		Ø3.0	HOGSD3007	HOGSD3007WC	
	13	Ø2.5	HOGSD2513	HOGSD2513WC	
		Ø3.0	HOGSD3013	HOGSD3013WC	

Anchor Screw

Description	Item Code	Image
• Used to affix the OneGuide firmly • Selectable at the preoperative planning stage	HQGAS18	

Anchor Drill

Description	Item Code	Image
• Used for drilling before using anchor screw • Recommended speed: 800 ~ 1.200 rpm	HQGATD13	

OneGuide Anchor Driver (Mount Driver)

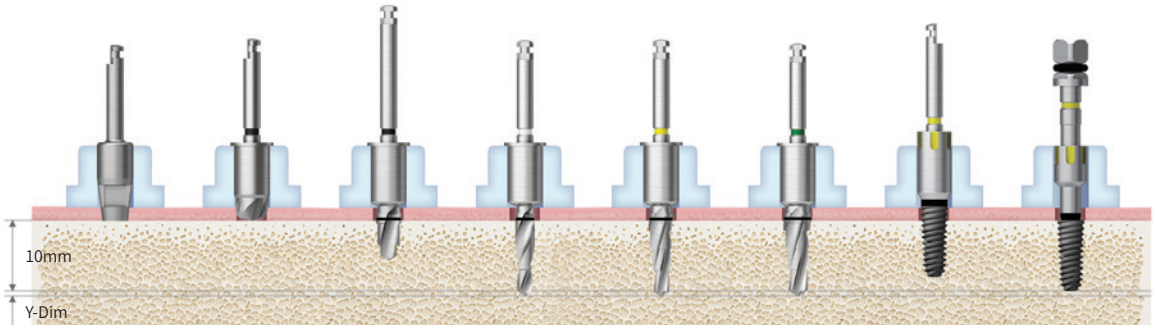
Description	Item Code	Image
• Used to place anchor screw	HASMDS	

Drilling Sequence **OneGuide Drill**

EKIII | ETIII

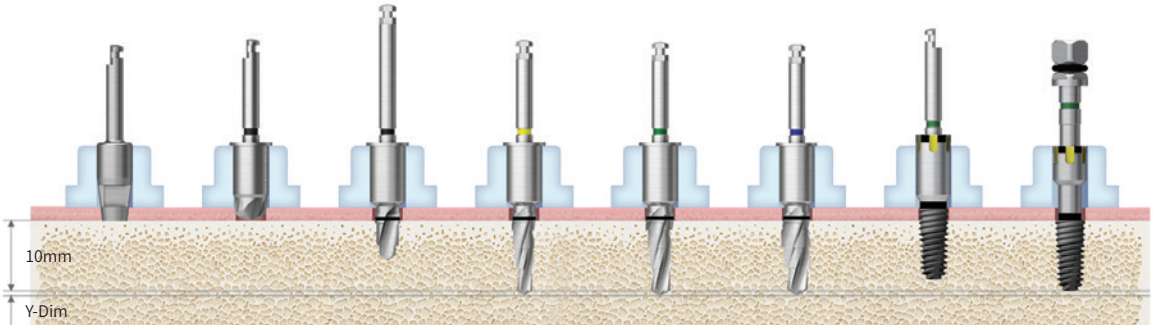
(Length: 10mm)

Ø3.5



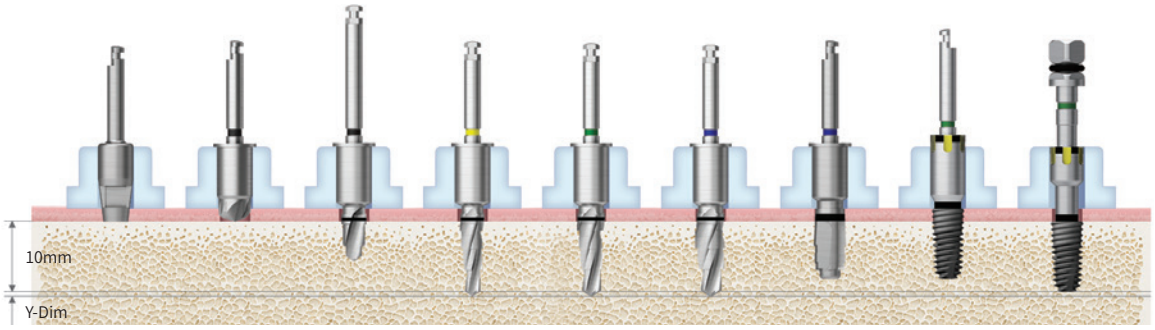
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (Ø2.2)	Drill (F3.5)	Drill (F4.0)	Nomount Driver	Implant Driver
Soft	▶	(▶)	(F3.5 Soft)▶	▶			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶		▶			
Hard	▶	(▶)	▶		▶	▶		

Ø4.0



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

Ø4.5



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

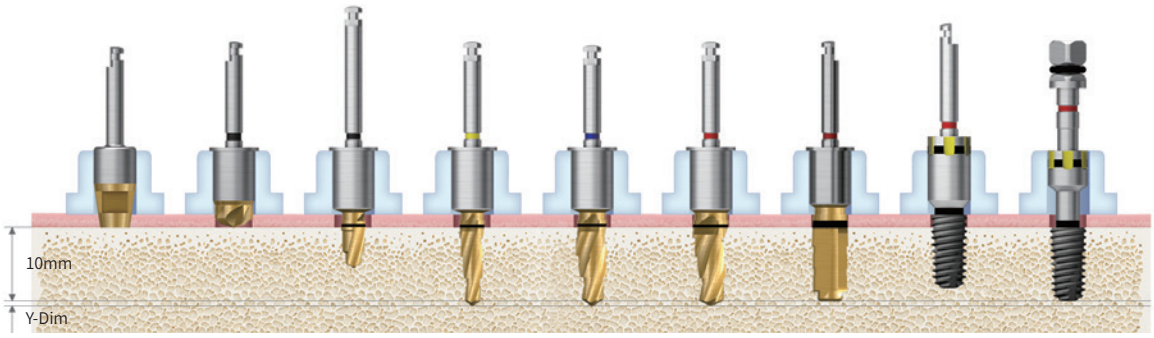
Unit of Measurement: **mm**

Drilling Sequence **OneGuide Drill**

EKIII | ETIII

(Length: 10mm)

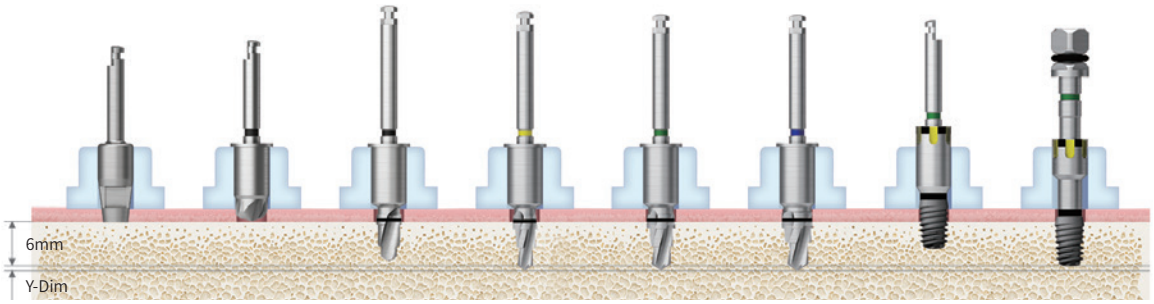
ø5.0



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

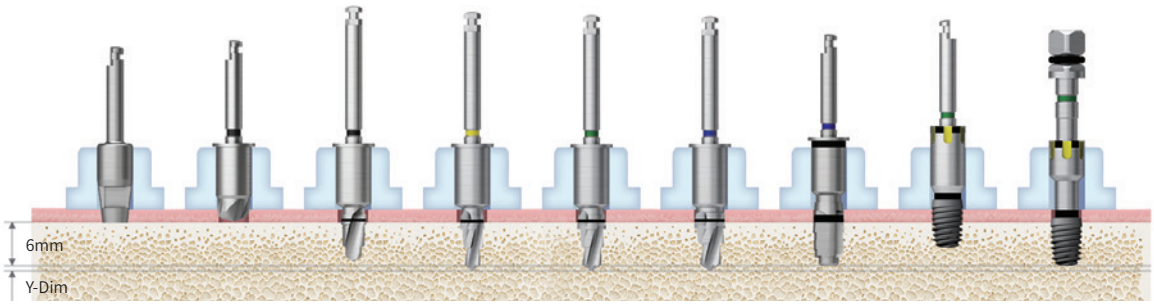
※ For extra short implants (Ø4.0, Ø4.5 / 6mm) only

ø4.0



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Nomount Driver	Implant Driver
Soft	▶	(▶)	▶	F3.5x6			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	F3.5x6	F4.0x6			
Hard	▶	(▶)	▶	F3.5x6		F4.5x6		

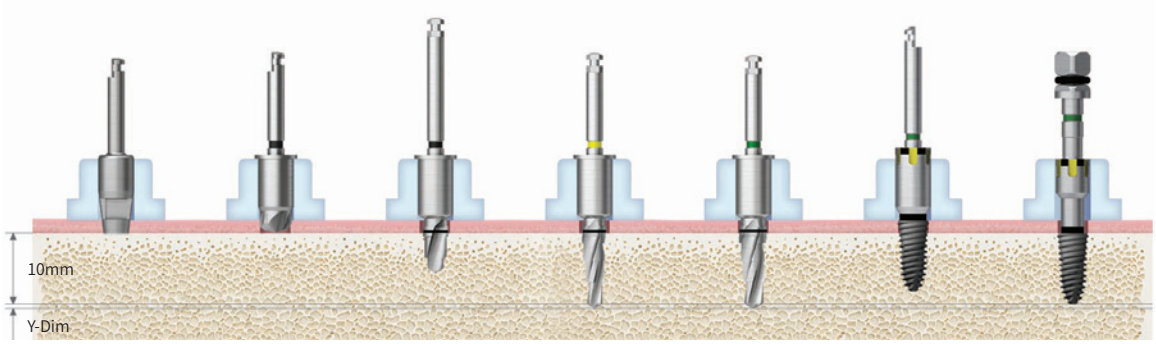
ø4.5



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Drill (F4.5)	Cortical (F4.5)	Nomount Driver	Implant Driver
Soft	▶	(▶)	▶	F3.5x6	F4.0x6			Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	F3.5x6		F4.5x6			
Hard	▶	(▶)	▶	F3.5x6		F4.5x6	F4.5x6~8.5		

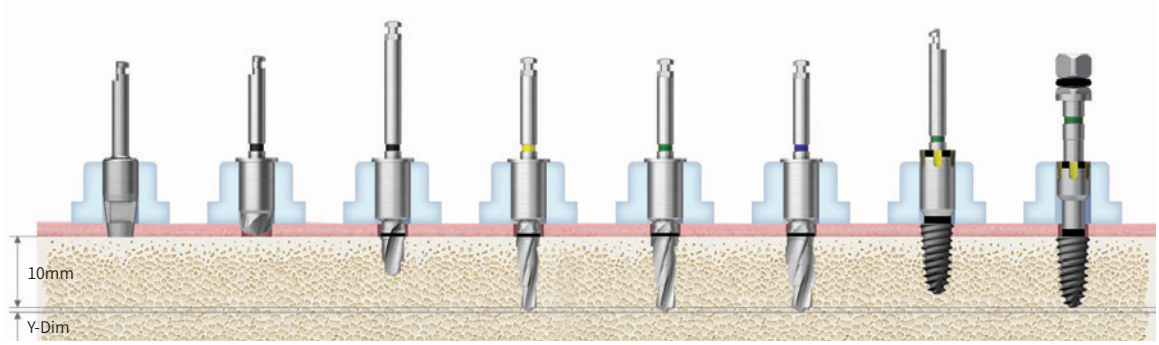
ETIV
(Length: 10mm)

Ø4.0



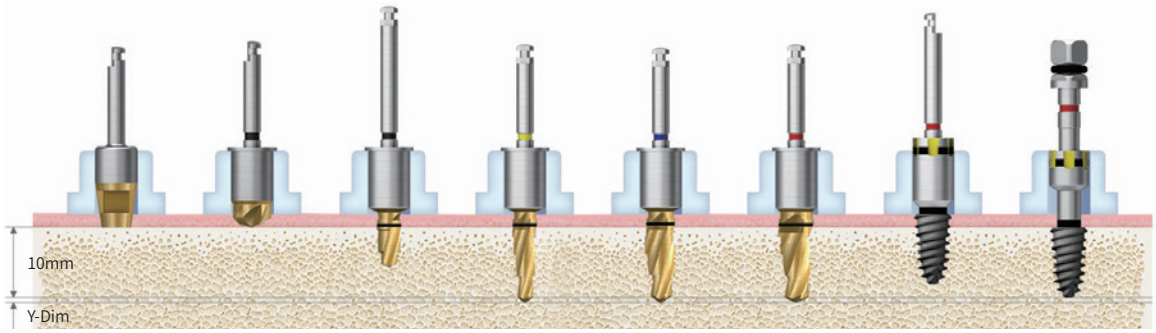
Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	Drill (F3.5)	Drill (F4.0)	Nomount Driver	Implant Driver
Soft	▶	(▶)	▶	▶		Implant Placement (Up to 80%)	Implant Placement
Normal	▶	(▶)	▶	▶	▶		

Ø4.5



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

Ø5.0



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

Unit of Measurement: mm


HIOSSEN
IMPLANT

OneCAS Kit (HOCK)

For **EKIII** **ETIII/IV**

Top panel components

Depth Gauge
HCDG

Lower panel components

Bone Carrier Head
SNBCH30

Hydraulic Membrane Lifter Tube
SNMT

Bone Condenser
SNBC1114

Depth Gauge(W)
HCDGW

Bone Carrier
SNBCS35

HOGFD45
Flattening Drill

HOCD2207
HOCD2210
Twist Drill (Ø2.2)

HOCD2807
HOCD2810
OneCAS Drill (Ø2.8)

HOCD3107
HOCD3110
OneCAS Drill (Ø3.1)

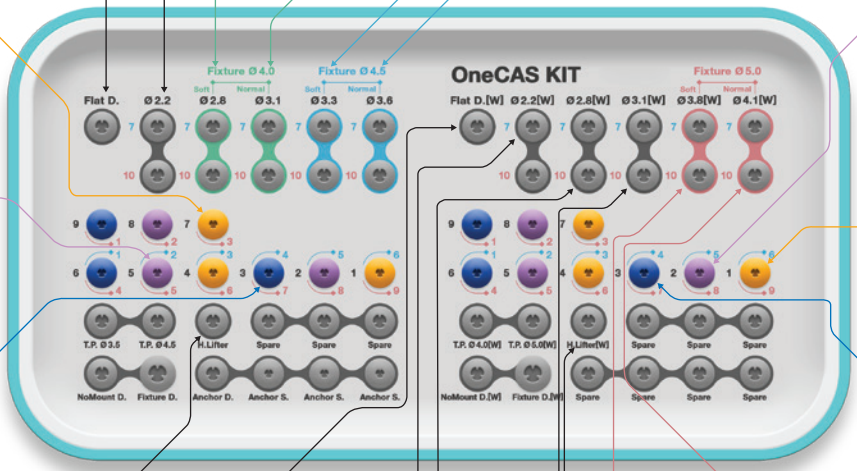
HOCD3307
HOCD3310
OneCAS Drill (Ø3.3)

HOCD3607
HOCD3610
OneCAS Drill (Ø3.6)

Stopper
HOCDS01
HOCDS04
HOCDS07
Yellow

Stopper
HOCDS02
HOCDS05
HOCDS08
Purple

Stopper
HOCDS03
HOCDS06
HOCDS09
Blue



Stopper (W)
HOCDS02W
HOCDS05W
HOCDS08W
Purple

Stopper (W)
HOCDS01W
HOCDS04W
HOCDS07W
Yellow

Stopper (W)
HOCDS03W
HOCDS06W
HOCDS09W
Blue

OneCAS Hydraulic Membrane Lifter
HOCHML

Flattening Drill (W)
HOGFD52WC

Twist Drill (W)(Ø2.2)
HOCD2207WC
HOCD2210WC

OneCAS Drill (W) (Ø2.8)
HOCD2807WC
HOCD2810WC

OneCAS Drill (W) (Ø3.1)
HOCD3107WC
HOCD3110WC

OneCAS Hydraulic Membrane Lifter (W)
HOCHMLW

OneCAS Drill (W) (Ø3.8)
HOCD3807WC
HOCD3810WC

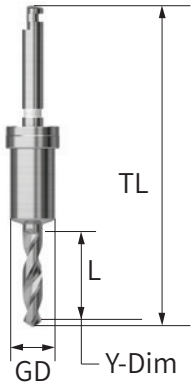
OneCAS Drill (W) (Ø4.1)
HOCD4107WC
HOCD4110WC

Unit of Measurement: mm

OneCAS Kit Surgical Kit Instruments

OneCAS Twist Drill

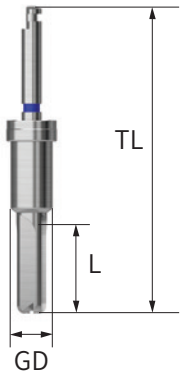
- Recommended to drill 1mm under the lower margin of maxillary sinus
- Used with a stopper for a safe membrane approach
- 1mm shorter than a normal Twist Drill
- Recommended speed: 400 ~ 1,200 rpm



			F4.0/4.5	F5.0 (W)
Y-Dim			0.6	
GD			5.0	5.7
TL	L	D/Ø		
33.2	7	Ø2.2	HOCD2207	HOCD2207WC
36.2	10		HOCD2210	HOCD2210WC

OneCAS Twist Drill

- Used with the stopper of OneCAS system
- The membrane is safely lifted during maxillary sinus surgery
- Possible to collect autogenous bone at low RPM's
- Use a stopper for a safe membrane approach
- Final drill diameter selection based on bone quality
- Recommended rpm: 400~800rpm



F4.0/4.5		Ø2.8	Ø3.1	Ø3.3	Ø3.6
L	TL	5.0			
7	33.6	HOCD2807	HOCD3107	HOCD3307	HOCD3607
10	36.1	HOCD2810	HOCD3110	HOCD3310	HOCD3610
F5.0 (W)		**Ø2.8**	**Ø3.1**	**Ø3.8**	**Ø4.1**
L	TL	5.0			
7	33.6	HOCD2807WC	HOCD3107WC	HOCD3807WC	HOCD4107WC
10	36.6	HOCD2810WC	HOCD3110WC	HOCD3810WC	HOCD4110WC

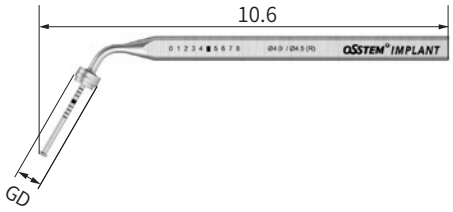
OneCAS Kit Surgical Kit Instruments

OneCAS Stopper

- Stopper number indicates the length when engaged
- On the Kit, protruding length marked in blue for 7mm drills and in red for 10mm drills
- Color coded by length
- Recommended number of use: 50 times

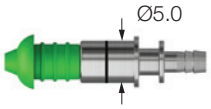
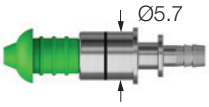
Diameter	1	2	3	4	5	6	7	8	9
									
F4.0/4.5	HOCDS01	HOCDS02	HOCDS03	HOCDS04	HOCDS05	HOCDS06	HOCDS07	HOCDS08	HOCDS09
F5.0 (W)	HOCDS01W	HOCDS02W	HOCDS03W	HOCDS04W	HOCDS05W	HOCDS06W	HOCDS07W	HOCDS08W	HOCDS09W
Color	Yellow	Purple	Blue	Yellow	Purple	Blue	Yellow	Purple	Blue

Depth Gauge

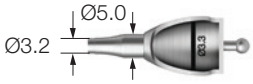
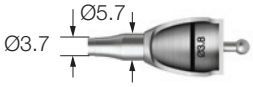
Description		F4.0/4.5	F5.0 (W)	Image/Guide
	GD	5.0	5.7	
• Checks for internal sinus lift • Measures residual bone depth • Use with a stopper for safer approach • Same depth marking lines as a 10mm drill		HCDG	HCDGW	

Unit of Measurement: **mm**

Hydraulic Membrane Lifter

Description	D/Ø	Item code	Image/Guide
• Dedicated surgical instrument for the OneCAS KIT • Used by inserting into the OneGuide hole after marking drilling • Thin-wall design optimizes sealing during flapless • procedures	**Regular** Hole (Ø5.1)	OCHML	
	Wide Hole (Ø5.8)	OCHMLW	

Bone Carrier Head

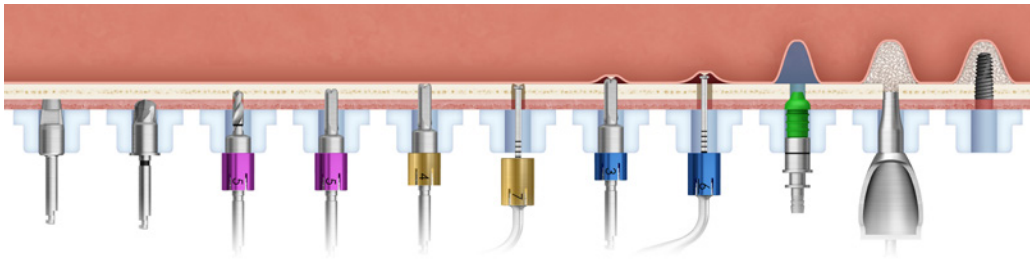
Description	D/Ø	Item code	Image/Guide
• Dedicated bone delivery instrument for the OneCAS KIT • Inserted and fixed up to the end of the OneGuide hole during use • OCBCH30: Used after OneCAS drill Ø3.1 • OCBCH32: Used after OneCAS drill Ø3.3 / Ø3.6 • CBCH37W: Used after OneCAS drill Ø3.8 / Ø4.1 • After filling bone material up to the head marking line, use with a bone condenser to completely deliver bone into the sinus cavity, then repeat as needed	**Regular** Hole (Ø5.1)	OCBCH30	
		OCBCH32	
	Wide Hole (Ø5.8)	OCBCH37W	

Bone Carrier

Description	Item Code	Image
• Dedicated bone delivery instrument for the OneCAS KIT • The head is secured by tightening the rear handle of the body • The head can be replaced and used interchangeably	OCBCS30	

Drilling Sequence **OneCAS Kit**

Residual Bone **3mm**
Ø4.0



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

Residual Bone **3mm**
Ø4.5

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

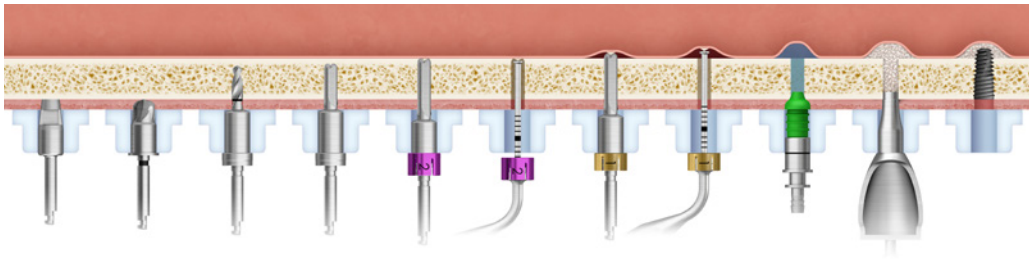
Residual Bone **3mm**
Ø5.0

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

Unit of Measurement: **mm**

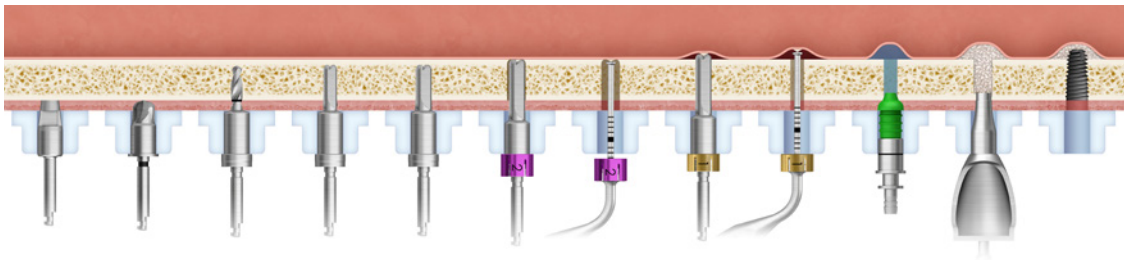
Drilling Sequence **OneCAS Kit**

Residual Bone **8mm**
Ø4.0



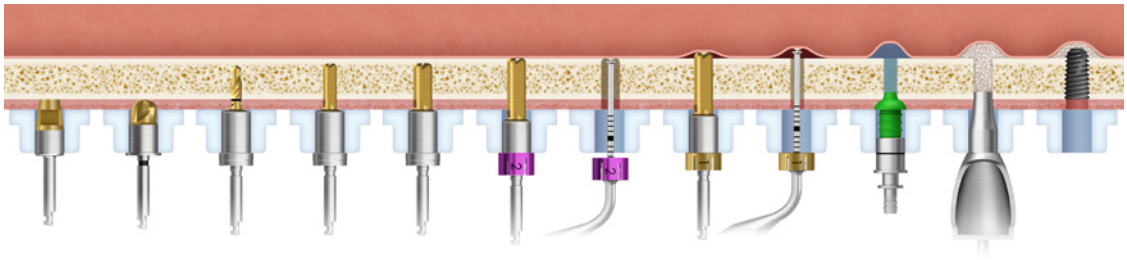
Bone Quality	Tissue Punch	Flattening Drill	Twist Drll (Ø2.2x7)	OneCAS Drill	OneCAS Drill	Depth Gauge	OneCAS Drill	Depth Gauge	Hydraulic Lifter	Bone Carrier	Implant
Soft	▶	▶	▶	Ø2.8x7	Ø2.8x10	▶	Ø2.8x10	▶	▶	▶	▶
Normal	▶	▶	▶	Ø3.1x7	Ø3.1x10	▶	Ø3.1x10	▶	▶	▶	▶
Stopper					2	2	1	1			

Residual Bone **8mm**
Ø4.5



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

Residual Bone **8mm**
Ø5.0



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

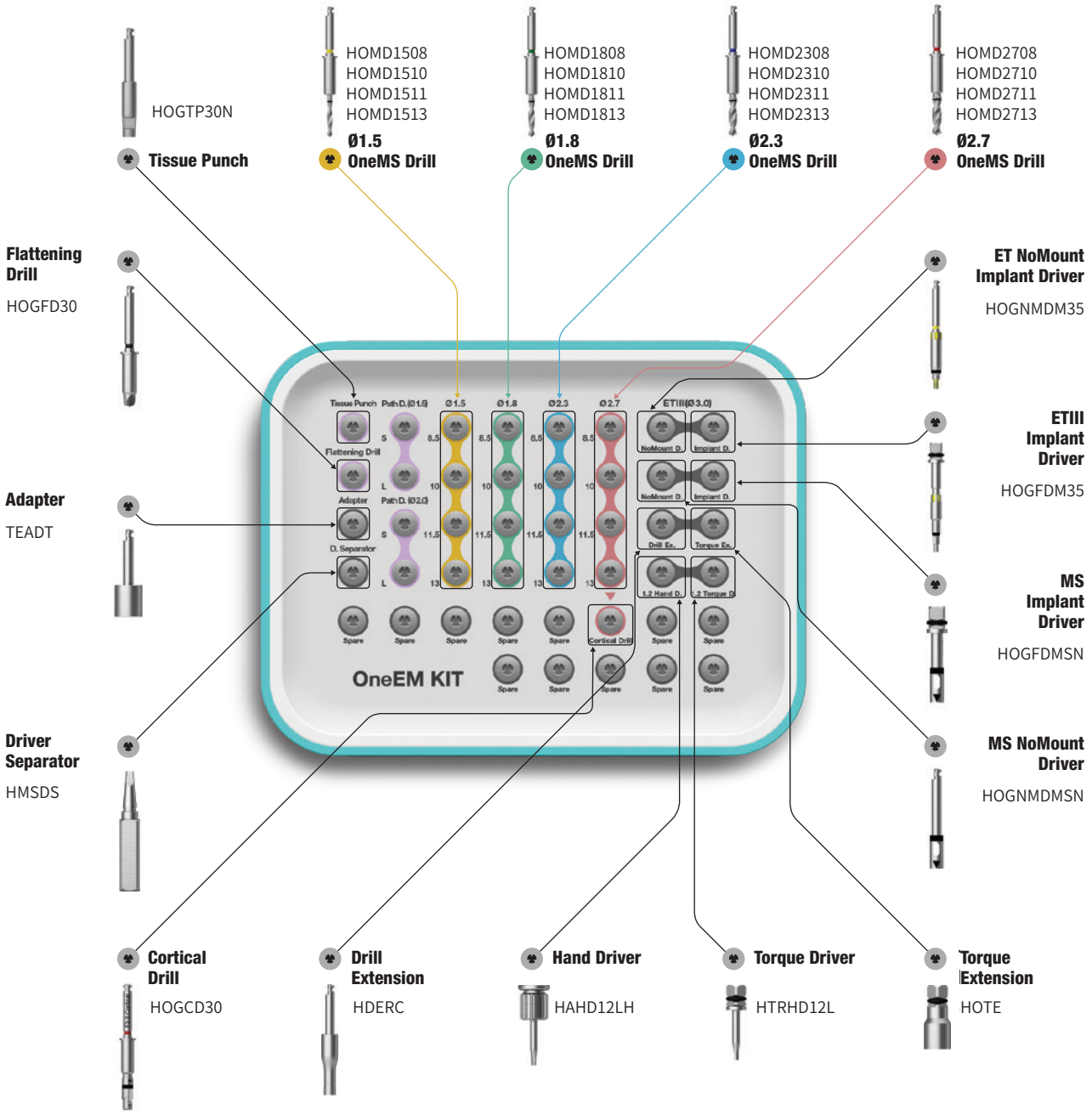
OneEM Kit (HOMSK)

For EKIII ETIII/IV EM(MS)

Top panel components

Torque Wrench
TQWCB

Depth Gauge
HMDTGG



Unit of Measurement: mm

OneEM Kit Surgical Kit Instruments

OneGuide Template

Description/Item code	Image/Guide
• Two sizes of guide holes depending on the diameter of the implant - D5.0 for implant diameters: F3.5/4.0/4.5 - D5.8 for implant diameter: F5.0 • Dual contact feature ensures excellent accuracy in positioning and stability • Simple drilling sequence by adopting 122 Taper Kit concepts • Packing unit: surgical guide (optional: SmartFit abutment, Temporary Crown)	

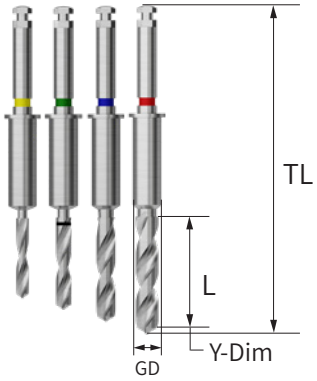
OneMS Drill

Description/Item code

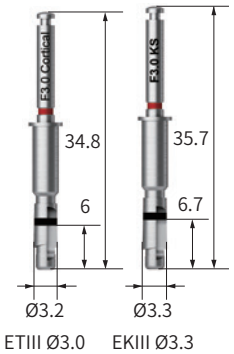
- Straight type drills for EM implant / ETIII Ø3.2 implants (EM Ø2.0 ~ Ø3.0 / ETIII Ø3.2 implants)
- OneMS Cortical Drill is used for placing ETIII Ø3.2 implants in hard bones
- Start with 8.5mm drill for stable drilling
- Recommended speed: 800 ~ 1,200 rpm

L	TL	D/Ø	Ø1.5	Ø1.8	Ø2.3	Ø2.7
		GD	0.6	0.6	0.6	0.6
8.5	37.5		HOMD1508	HOMD1808	HOMD2308	HOMD2708
10	39		HOMD1510	HOMD1810	HOMD2310	HOMD2710
11.5	40.5		HOMD1511	HOMD1811	HOMD2311	HOMD2711
13	42		HOMD1513	HOMD1813	HOMD2313	HOMD2713
Color			Yellow	Green	Blue	Pink

Image/Guide

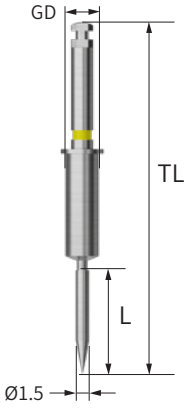


OneMS Cortical Drill

Description/Item code	Image
• Used to remove cortical bone in hard bone • Used for expanding the cortical bone after using the Straight Drill (ETIII Ø3.0 only) • Recommended speed: 800 ~ 1,200 rpm	

ETIII Ø3.0	EKIII Ø3.3
HOGCD30	HOGCD30K

OneMS Lance Drill

Description/Item code	Image/Guide
• Creates holes in the bone to facilitate initial drilling • Bone density can be determined through drilling • Single item (excluded from OneMS Kit)	

L	TL	D/Ø	Ø1.5
8.5	37.5		HOMLD1508
10	39		HOMLD1510
11.5	40.5		HOMLD1511
13	42		HOMLD1513

OneEM Kit Surgical Kit Instruments

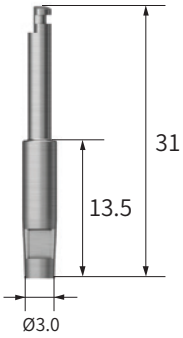
Flattening Drill

Description/Item code	Image
• Used for narrow or uneven ridges • Cutting edge design allows for stable bone removal	
HOGFD30	

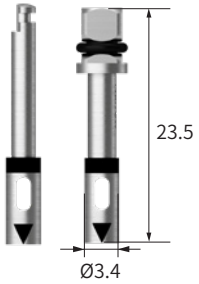
Driver Separator

Description/Item code	Image
• Used in case a driver is wedged with the implant during insertion • Insert the Driver Separator into the driver groove to loosen it from the implant	
HMSDS	

Tissue Punch

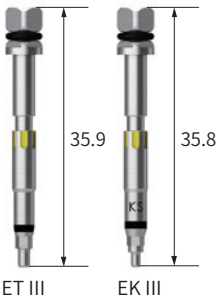
Description/Item code	Image
• Used to remove gingiva to continue with flapless surgery	
HOGTP30N	

OneMS Driver

Description	Image
• Used with the torque wrench for adjustment of the final implant placement for MS implant narrow ridge • Match the mark with the implant	

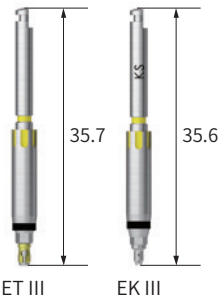
F2.0/2.5/3.0	
NoMount Driver	HOGMDMSN
Implant Driver	HOGFDMSN

Implant Driver

Description	Image
• Used with the torque wrench for adjustment of the final implant placement • Yellow grooves aligns with abutment hex direction • Match the groove of OneGuide template with the groove of driver • *C = Connection	

ET Ø3.2	EK Ø3.3
HOGFDM35	OGFDM35K

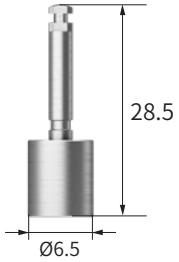
NoMount Driver

Description	Image
• Used with the torque wrench for adjustment of the final implant placement • Yellow grooves aligns with abutment hex direction • Match the groove of OneGuide template with the groove of driver • *C = Connection	

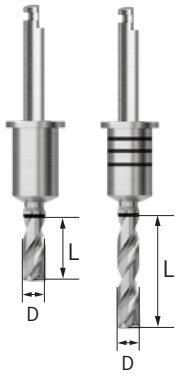
ET Ø3.2	EK Ø3.3
HOGNMDM35	OGNMDM35K

Unit of Measurement: **mm**

Adapter

Description/Item code	Image
• Use as a torque driver to connecting to the engine	
TEADT	

OneMS Path Drill

Description	Image
• Used for correcting path deviation • Can establish implant placement path during surgery • For inclined bone cutting with a flat blade design • For the 13mm specification, depth adjustment follows marking lines: upper line (11.5mm), middle line (10mm), lower line (8.5mm) • Recommended speed: 1,200~1,500 rpm	

L	D/Ø	Ø1.5	Ø2.0
7.0		HOMSD1507	HOMSD2007
13.0		HOMSD1513	HOMSD2013

Drilling Sequence OneEM Drill

EKIII | ETIII | EM

(Length: 10mm)

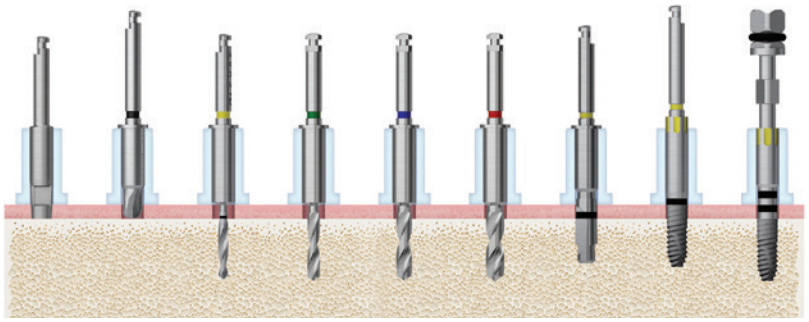
For Implant 10 / 11.5 / 13 mm sequences, an Ø8.5 mm drill must be used at each step

Ex. **Ø2.5×11.5mm MS implant**

:Tissue punch ▶ Flattening drill ▶ Ø1.8×8.5mm (mandatory pilot drilling) ▶ Ø1.8×11.5mm ▶ NoMount driver ▶ Implant driver

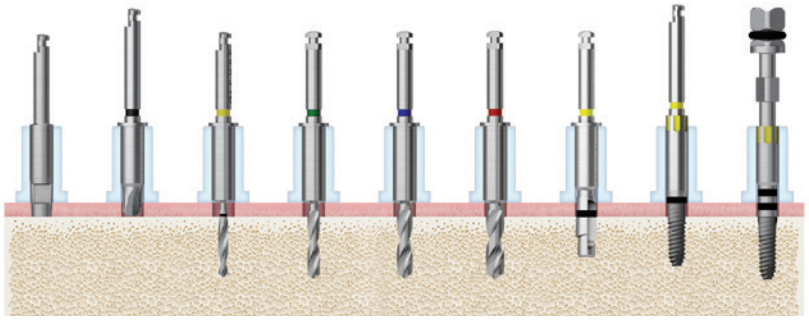
※ Ø1.5 drill (optional): may be selectively used for initial drilling when higher precision is required

EKIII Ø3.0



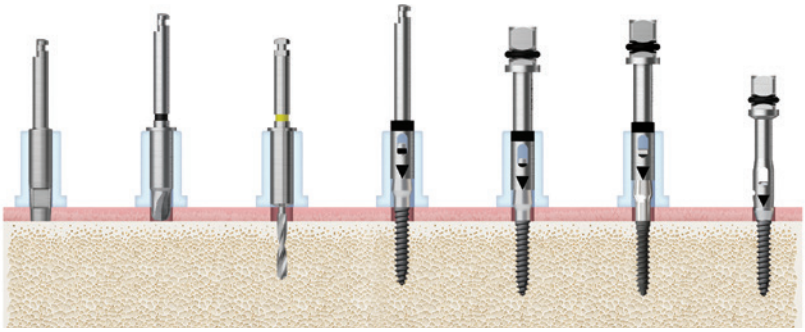
Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø1.5)	OneMS Drill (Ø1.8)	OneMS Drill (Ø2.3)	OneMS Drill (Ø2.7)	F3.0 Cortical Drill	NoMount Driver	Implant Driver
Soft	▶	(▶)	(▶)	▶	▶			▶	▶
Normal	▶	(▶)	(▶)	▶	▶	▶		▶	▶
Hard	▶	(▶)	(▶)	▶	▶	▶	▶	▶	▶

ETIII Ø3.0



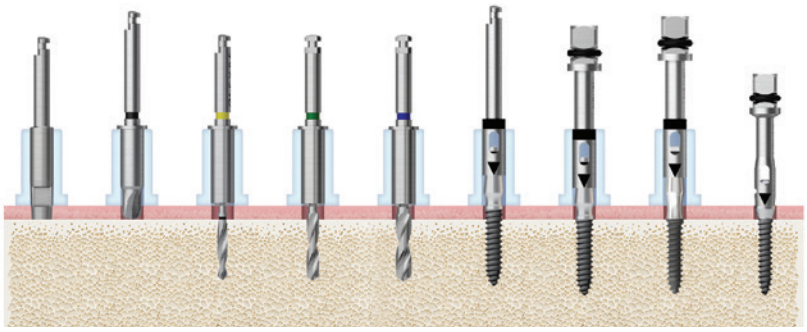
Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø1.5)	OneMS Drill (Ø1.8)	OneMS Drill (Ø2.3)	OneMS Drill (Ø2.7)	F3.0 Cortical Drill	NoMount Driver	Implant Driver
Soft	▶	(▶)	(▶)	▶	▶			▶	▶
Normal	▶	(▶)	(▶)	▶	▶	▶		▶	▶
Hard	▶	(▶)	(▶)	▶	▶	▶	▶	▶	▶

EM ø2.0



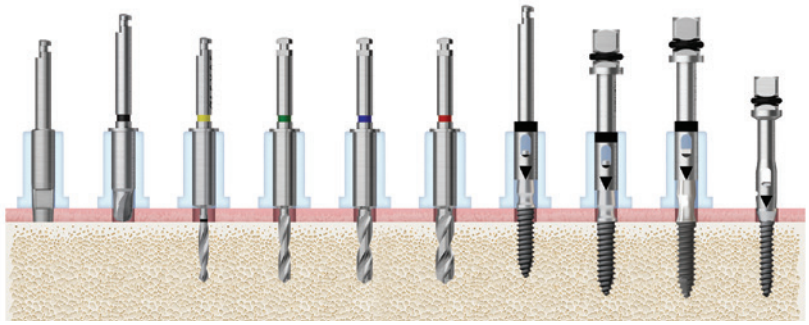
Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø1.5)	NoMount Driver	Implant Driver		
					G/H 2.5	G/H 4.0	Denture
Soft	▶	(▶)	▶	▶		▶	
Normal	▶	(▶)	▶	▶		▶	
Hard	▶	(▶)	▶	▶		▶	

EM ø2.5



Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø1.5)	OneMS Drill (Ø1.8)	OneMS Drill (Ø2.3)	NoMount Driver	Implant Driver		
							G/H 2.5	G/H 4.0	Denture
Soft	▶	(▶)	(▶)	▶	-	▶		▶	
Normal	▶	(▶)	(▶)	▶	-	▶		▶	
Hard	▶	(▶)	(▶)	▶	(▶)	▶		▶	

EM ø3.0



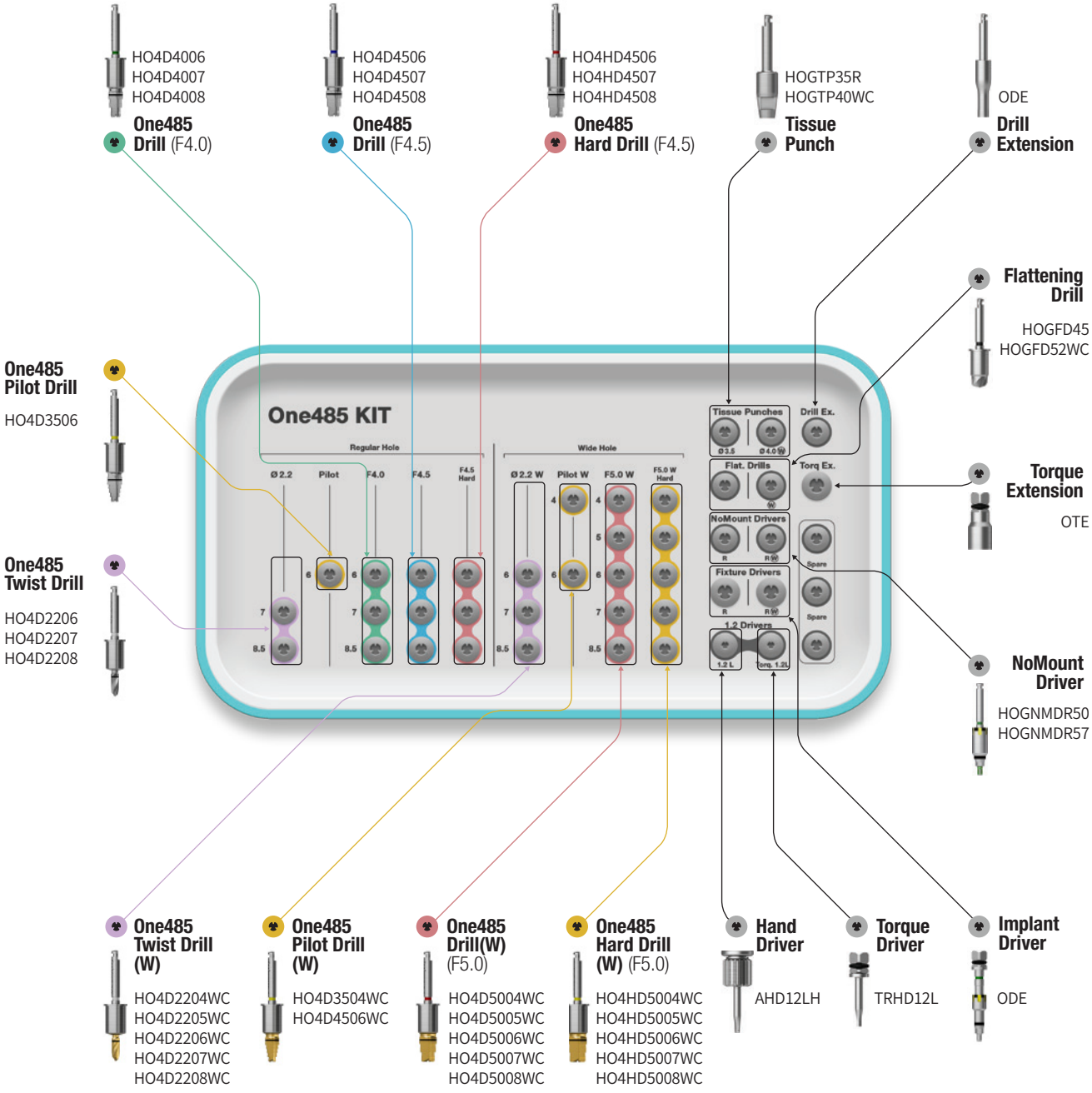
Bone Quality	Tissue Punch	Flattening Drill	OneMS Drill (Ø1.5)	OneMS Drill (Ø1.8)	OneMS Drill (Ø2.3)	OneMS Drill (Ø2.7)	NoMount Driver	Implant Driver		
								G/H 2.5	G/H 4.0	Denture
Soft	▶	(▶)	(▶)	▶	-	-	▶		▶	
Normal	▶	(▶)	(▶)	▶	-	-	▶		▶	
Hard	▶	(▶)	(▶)	▶	▶	(▶)	▶		▶	

One485 Kit (HO485K)

For EKIII ETIII/IV SSIII

Torque Wrench
TW30B

Depth Gauge
OSDG



Unit of Measurement: mm

One485 Kit Surgical Kit Instruments

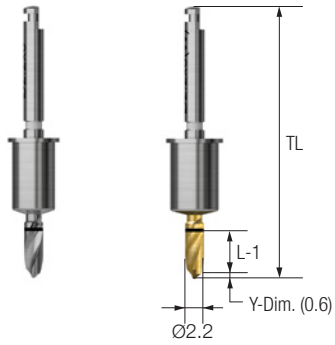
One485 Twist Drill

Description/Item code

- Ensures initial drilling stability and secures the exact depth of the guide hole
- Straight design allows drilling to 1 mm shorter than the planned implant length
- Available in 8 configurations according to OneGuide hole diameter
  - Regular hole (Ø5.1) / Wide hole (Ø5.8)
- Recommended drilling speed: 800–1,200 rpm

L	TL	Regular Hole(Ø5.1) F4.0 / F4.5	Wide Hole(Ø5.8) F5.0W
4.0	30.2	-	O4D2204WC
5.0	31.2	-	O4D2205WC
6.0	32.2	O4D2206	O4D2206WC
7.0	33.2	O4D2207	O4D2207WC
8.5	34.7	O4D2208	O4D2208WC

Image/Guide



Regular Hole (Ø5.1) Wide Hole (Ø5.8)

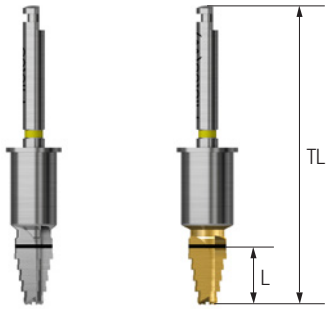
One485 Pilot Drill

Description/Item code

- Expands the hole diameter during intermediate drilling
- Available in 3 configurations according to OneGuide hole diameter
  - Regular hole (Ø5.1) / Wide hole (Ø5.8)
- Implant length 4–5 mm: use 4 mm,
- Implant length 6–8.5 mm: use 6 mm
- Recommended drilling speed: 800–1,200 rpm

L	TL	Regular Hole(Ø5.1) F4.5	Wide Hole(Ø5.8) F5.0W
4.0	30.9	-	O4D3504WC
6.0	32.9	O4D3506	O4D3506WC

Image/Guide



Regular Hole (Ø5.1) Wide Hole (Ø5.8)

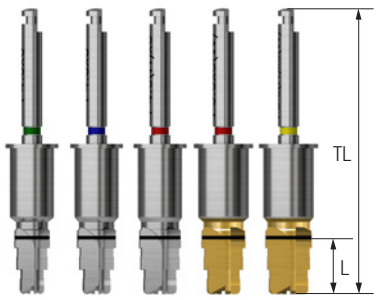
One485 Drill

Description/Item code

- Used as the final drill to achieve final osteotomy diameter and optimize insertion torque
- Lateral cutting edges: tapered drill geometry
- Available in 19 configurations according to OneGuide hole diameter
  - Regular hole (Ø5.1) / Wide hole (Ø5.8)
- For F4.5 and F5.0 implants in hard bone, use the F4.5 and F5.0 hard drills

L	TL	Regular Hole(Ø5.1)			Wide Hole(Ø5.8)	
		F4.0	F4.5	F4.5 Hard	F5.0W	F5.0W Hard
4.0	30.9	-	-		O4D5004WC	O4HD5004WC
5.0	31.9	-	-		O4D5005WC	O4HD5005WC
6.0	32.9	O4D4006	O4D4506	O4HD4506	O4D5006WC	O4HD5006WC
7.0	33.9	O4D4007	O4D4507	O4HD4507	O4D5007WC	O4HD5007WC
8.5	35.4	O4D4008	O4D4508	O4HD4508	O4D5008WC	O4HD5008WC

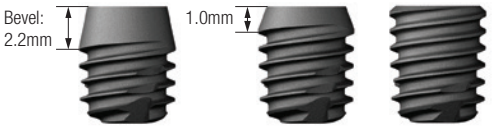
Image/Guide

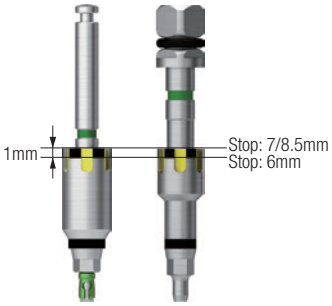


One485 Kit

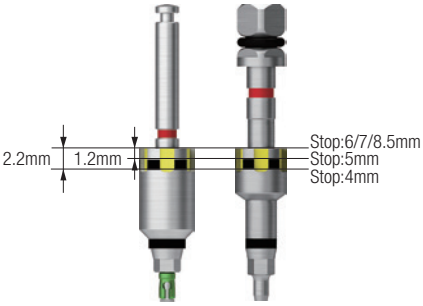
Implant insertion depth adjustment method **(Same concept applied as ETIII and EKIII)**

Ex. Short Implant / NoMount / Implant Driver Features





Regular Hole (Ø5.1)
F4.0/4.5



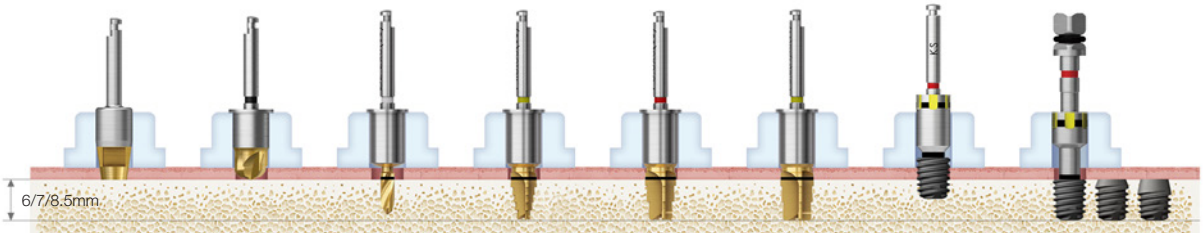
Wide Hole (Ø5.8)
F5.0W

Drilling Sequence One485 Drill

EKIII | ETIII | SSIII

Extra Short

Ø5.0 X 6mm



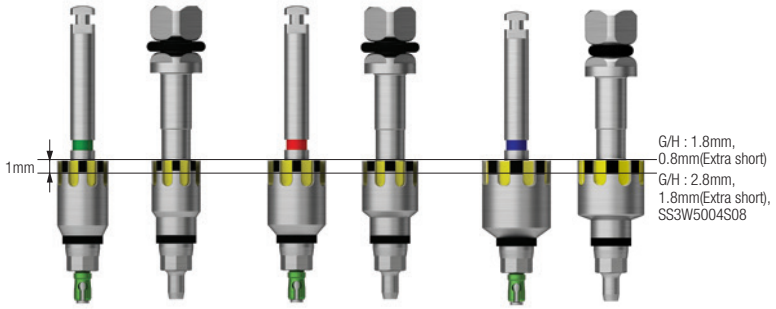
Ø5.0X6mm (Extra Short)	Bone Quality	Tissue Punch (W)	Flattening Drill (W)	Twist Drill (W)	Pilot Drill (W)	One485 Drill (W)	One485 Hard Drill (W)	NoMount Driver (W)	Implant Driver (W)
Ø5.0x 6/7/8.5mm	Normal	▶	(▶)	Ø2.2x6/7/8.5	Ø3.5x6	F5.0x6/7/8.5		Implant Placement (Up to 80%)	Implant Placement
	Hard	▶	(▶)	Ø2.2x6/7/8.5	Ø3.5x6		F5.0x6/7/8.5		

Unit of Measurement: **mm**

One485 Kit

Implant insertion depth adjustment method (**SSIII**)

NoMount / Implant Driver Features



Regular
Hole (Ø5.1)
F4.5

Wide
Hole (Ø5.8)
F5.0

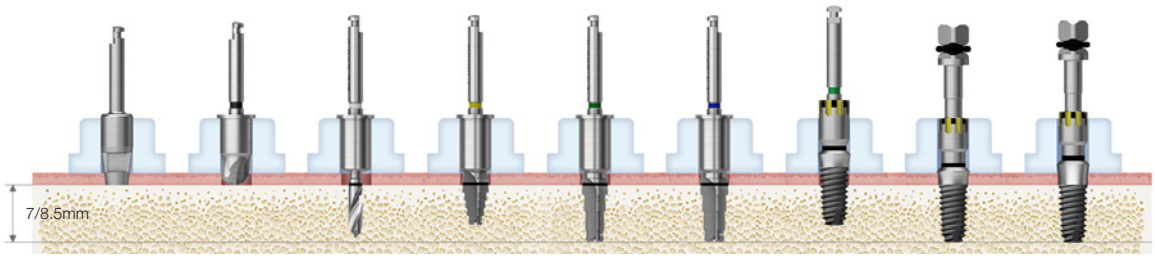
Extra Wide
Hole(Ø6.8)
Wide F4.5/5.0

Drilling Sequence One485 Drill

EKIII | ETIII | SSIII

G/H 1.8 & 2.8

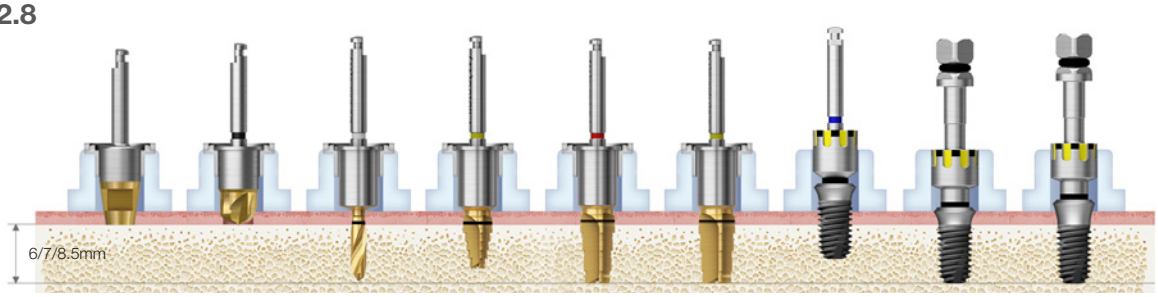
R



Implant	Bone Quality	Tissue Punch	Flattening Drill	Twist Drill	Pilot Drill	One485 Drill	One485 Drill	NoMount Driver	Implant Driver G/H 1.8	Implant Driver G/H 2.8
Diameter 6/7/8.5mm	Normal	▶	(▶)	▶	▶	▶		Implant Placement (Up to 80%)	Implant Placement	
	Hard	▶	(▶)	▶	▶		▶			

G/H 1.8&2.8

W



Implant	Bone Quality	Tissue Punch (W)	Flattening Drill (W)	Twist Drill (W)	Pilot Drill (W)	One485 Drill (W)	One485 Hard Drill (W)	NoMount Driver (W)	Implant Driver (W) G/H 1.8	Implant Driver (W) G/H 2.8
Diameter 6/7/8.5mm	Normal	▶	(▶)	▶	▶	▶		Implant Placement (Up to 80%)	Implant Placement	
	Hard	▶	(▶)	▶	▶		▶			

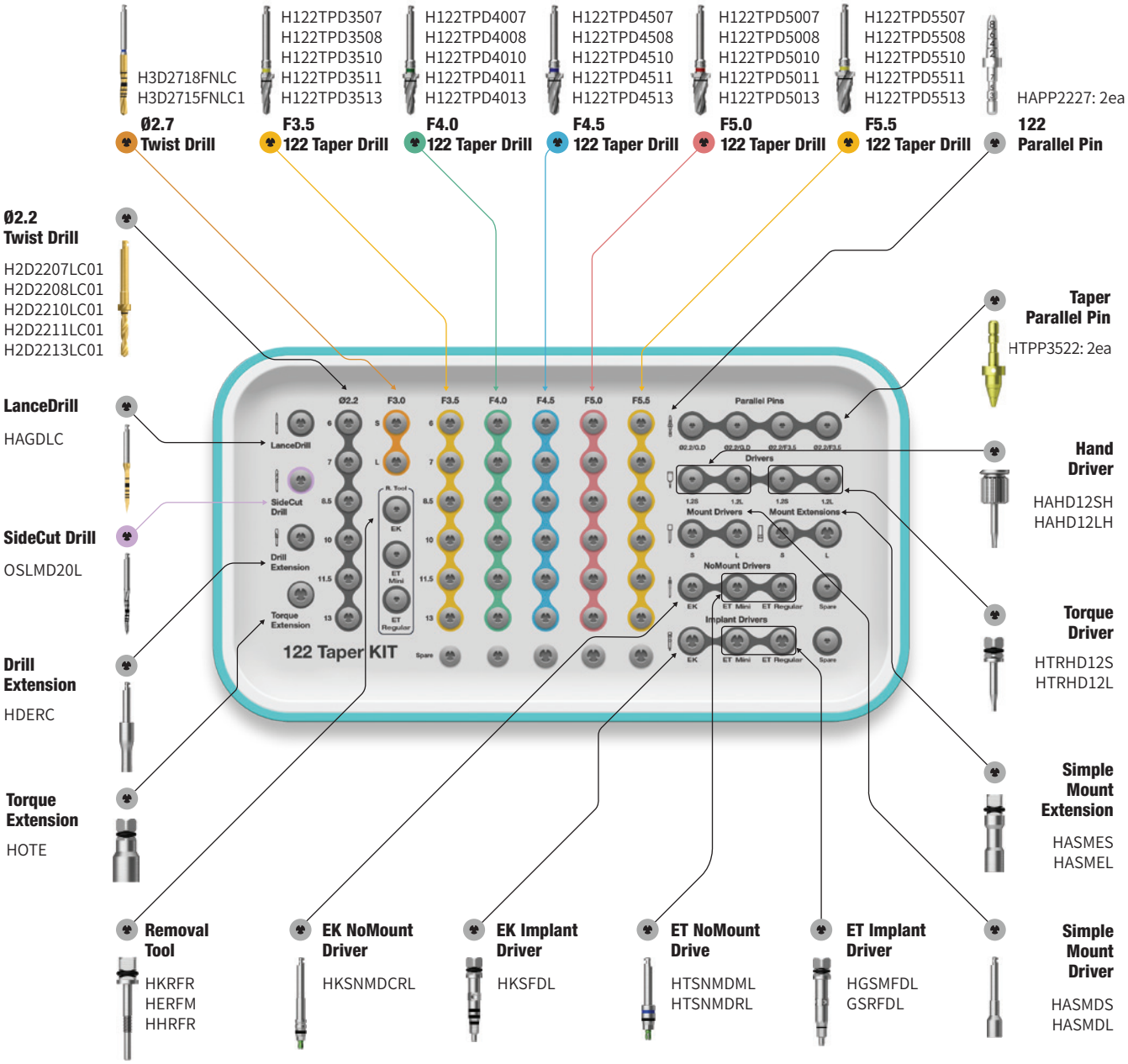
122 Taper Kit (HK122TPK)

For EKIII ETIII/IV SSIII

Top panel components

Torque Wrench
TQWCB

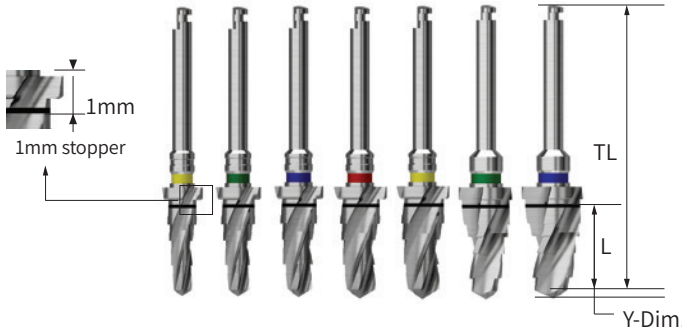
Depth Gauge
ODG



Unit of Measurement: mm

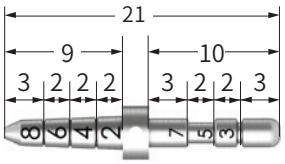
122 Taper Kit Surgical Kit Instruments

122 Taper Drill

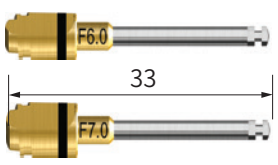
Description	Image/Guide
• Taper drill for Type III implants • Specification by diameter and length • Color coding displays implant diameter • One step large-diameter drill is used to remove cortical bone from the hard bone • 122 Taper Kit single item (excluded from Taper Kit)	

L	TL	D/Ø	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		H122TPD3504	H122TPD4004	H122TPD4504	H122TPD5004	H122TPD5504	-	-
5.0	29.5		H122TPD3505	H122TPD4005	H122TPD4505	H122TPD5005	H122TPD5505	-	-
6.0	30.5		H122TPD3506	H122TPD4006	H122TPD4506	H122TPD5006	H122TPD5506	H122TPD6006	H122TPD7006
7.0	31.5		H122TPD3507	H122TPD4007	H122TPD4507	H122TPD5007	H122TPD5507	H122TPD6007	H122TPD7007
8.5	33		H122TPD3508	H122TPD4008	H122TPD4508	H122TPD5008	H122TPD5508	H122TPD6008	H122TPD7008
10	34.5		H122TPD3510	H122TPD4010	H122TPD4510	H122TPD5010	H122TPD5510	H122TPD6010	H122TPD7010
11.5	34.5		H122TPD3511	H122TPD4011	H122TPD4511	H122TPD5011	H122TPD5511	H122TPD6011	H122TPD7011
13	36		H122TPD3513	H122TPD4013	H122TPD4513	H122TPD5013	H122TPD5513	H122TPD6013	H122TPD7013
15	38		H122TPD3515	H122TPD4015	H122TPD4515	H122TPD5015	H122TPD5515	-	-
Color			Yellow	Green	Blue	Red	Yellow	Green	Blue

122 Taper Parallel Pin

Description	Item Code	Image
• Parallel pin for 122 Taper Drill • Used for checking position and direction of bone preparation • Lower part for 2.2 drill, upper part for guide drill • 122 Taper Kit single item (excluded from Taper Kit) • Other components same as Taper Kit	HAPP2227	

Cortical Drill for Ultra-Wide

Description	D/Ø	Item Code	Image
• Drill is used to remove cortical bone from hard bone (for ultra-wide) • Dedicated drill by implant diameter • It is recommended to drill to the bottom line of the marking line	F6.0	HCD4C60	
	F7.0	HCD4C70	

122 Taper Kit Surgical Kit Instruments

Implant Driver for EK

Description	*C	Length	Item Code	Image
• Connects directly to an EK implant for final adjustments to the implant's depth • *C = Connection	Regular	Short	HKSFDS	
		Long	HKSFDL	

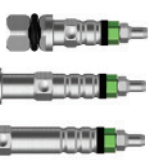
Implant Driver for ET

Description	*C	Length	Item Code	Image
• Connects directly to an ET implant for final adjustments to the implant's depth • *C = Connection	Mini	Short (17)	HGSMFDS	
		Long (24)	GSMFDL	
		Ex. Long (34)	HGSMFDE	
	Regular	Short (19)	HGSRFDS	
		Long (26.6)	GSRFDL	
		Ex. Long (33.6)	HGSRFDE	

NoMount Driver for EK

Description	*C	Length	Item Code	Image
• Ø3.5 implant is combined with the bottom of the lower marking • Ø4.0, Ø4.5, Ø5.0, Ø6.0 and Ø7.0 implants are combined with the upper part of the lower marking • The distance between the two laser marking is 0.5mm • *C = Connection	Regular	Short (27.6)	HKSNMDCRS	
		Long (32.6)	HKSNMDCRL	
		Extra Long (37.6)	HKSNMDCRE	

NoMount Torque Driver for ET

Description	*C	Length	Item Code	Image
• Directly connects to an ET Implant for placement with a Torque Wrench • Ensure correct and complete seating before applying torque; loose connection may cause implant fracture • *C = Connection	Mini	Short (19)	HGSNMT32S	
		Long (26.6)	HGSNMT32L	
		Ex. Long (33.6)	HGSNMT32E	
	Regular	Short (19)	HGSNMT35S	
		Long (26.6)	HGSNMT35L	
		Ex. Long (33.6)	HGSNMT35E	

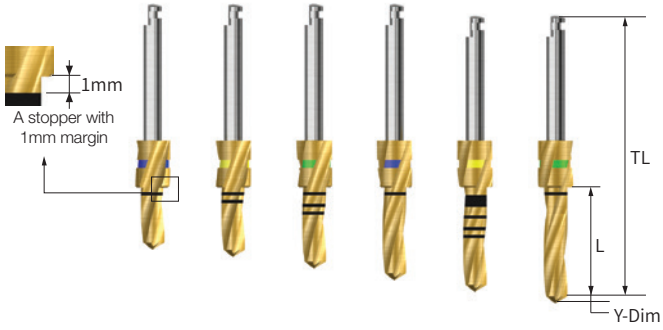
Unit of Measurement: mm

122 Taper Kit Surgical Kit Instruments

LaceDrill (Guide Drill)

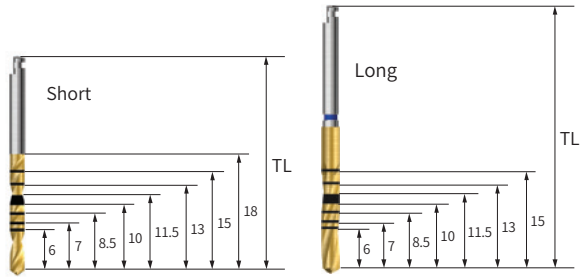
Description	L	Item Code	Image
• Forming a hole to facilitate initial drilling • Bone density determined through drilling	**Long**	HAGDLC	

Twist Drill (Stopper Drill)

Description	Image/Guide
• Included in New Hanaro KIT • Long stopper (6mm) • Enabling a procedure without drill extension for posterior region • The color coded stopper indicates the drill length	

L	TL	D/Ø	F2.2	F3.0	F3.3	F3.6	F3.8	F4.1	F4.3	F4.3
		Y-Dim.	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0
6	30.5		2D2206LC	3D3006LC	-	-	3D3806LC	-	-	-
7	31.5		2D2207LC01	3D3007LC01	-	-	3D3807LC01	-	-	-
8.5	33		2D2208LC01	3D3008LC01	-	-	3D3808LC01	-	-	-
10	34.5		2D2210LC01	3D3010LC01	-	-	3D3810LC01	-	-	-
11.5	34.5		2D2211LC01	3D3011LC01	3D3311LC01	3D3611LC01	3D3811LC01	3D4111LC01	3D4311LC01	3D4611LC01
13	36		2D2213LC01	3D3013LC01	-	-	3D3813LC01	-	-	-

Twist Drill (Non Stopper Drill)

Description	Image/Guide
• Included in New Hanaro KIT • Used for limited access for the Stopper Drill into the oral cavity • See the image provided in the Non-stopper Drill section for the sizes of the drill marking lines for short/long types	

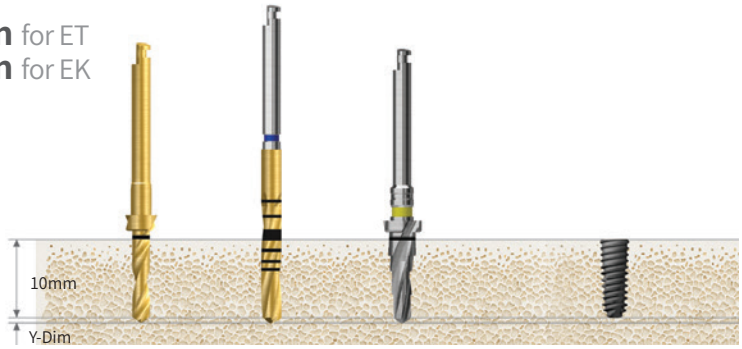
TL	D/Ø	F1.5	F2.0	F2.2	F2.7	F3.0	F3.3
33	Short	2D1518FNLC	2D2018FNLC	2D2218FNLC	3D2718FNLC	3D3018FNLC	3D3318FNLC
41		-	-	2D2215FNLC01	3D2715FNLC01	3D3015FNLC01	3D3315FNLC01
	D/Ø	F3.6	F3.8	F4.1	F4.3	F4.6	
33	Long	3D3618FNLC	3D3818FNLC	3D4118FNLC	3D4318FNLC	3D4618FNLC	
41		3D3615FNLC01	3D3815FNLC01	3D4115FNLC01	3D4315FNLC01	3D4615FNLC01	

Drilling Sequence **122 Taper Drill**

EKIII | ETIII | SSIII

(Length: 10mm)

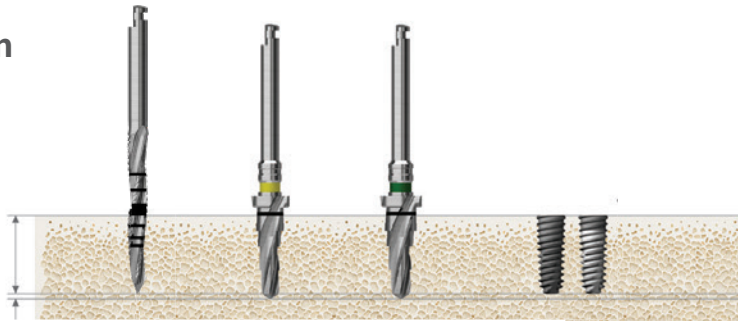
ø3.2mm for ET
ø3.3mm for EK



Bone Quality	ø2.2 Drill	ø2.7 Drill		F3.5 Taper Drill	ø3.0 Implant
Soft	▶	▶			Implant Placement
Normal	▶	▶	or	▶	
Hard	▶			▶	

※ Lance drill can be used before Ø2.2 to mark the Osteotomy
※ The Ø2.7 Twist Drill is labled as a 3.0mm drill in the kit case

ø3.5mm

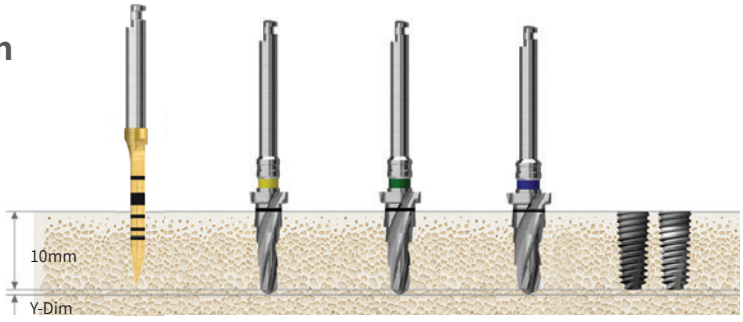


Bone Quality	Side Cut Drill	F3.5 Taper Drill	F4.0 Taper Drill	Ø3.5 Implant
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

※ The recommended drill speed is 800–1,200 RPM, with an implant insertion torque of ≤40 Ncm.

※ The ET/EK implant is placed 1 mm subcrestally for normal and hard bone. However, soft bone may be placed at the bone level to ensure stability.

ø4.0mm



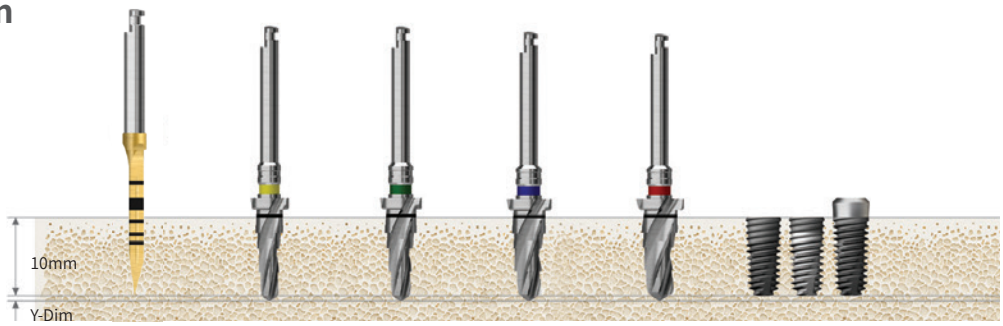
Bone Quality	Lance Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	Ø4.0 Implant
Soft	▶	▶			Implant Placement
Normal	▶	▶	▶		
Hard	▶	▶		▶	

※ The recommended drill speed is 800–1,200 RPM, with an implant insertion torque of ≤40 Ncm.

※ The ET/EK implant is placed 1 mm subcrestally for normal and hard bone. However, soft bone may be placed at the bone level to ensure stability.

Unit of Measurement: **mm**

ø4.5mm

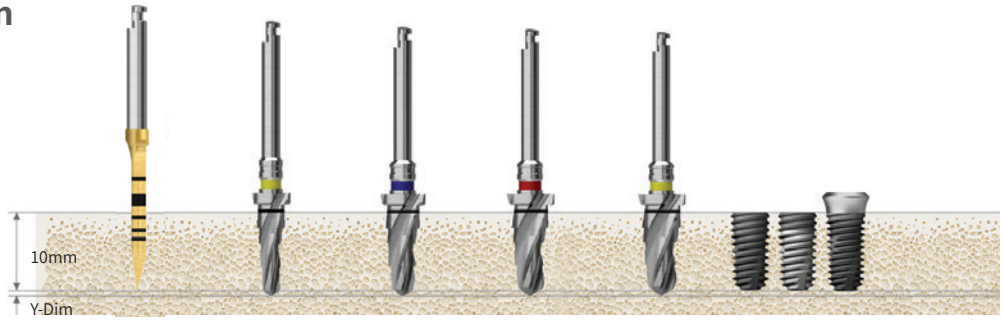


Bone Quality	Lance Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	F5.0 Taper Drill	ø4.5 Implant
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶			▶	

※ The recommended drill speed is 800–1,200 RPM, with an implant insertion torque of ≤40 Ncm.

※ The ET/EK implant is placed 1 mm subcrestally for normal and hard bone. However, soft bone may be placed at the bone level to ensure stability.

ø5.0mm



Bone Quality	Lance Drill	F3.5 Taper Drill	F4.5 Taper Drill	F5.0 Taper Drill	F5.5 Taper Drill	ø5.0 Implant
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶			▶	

※ The recommended drill speed is 800–1,200 RPM, with an implant insertion torque of ≤40 Ncm.

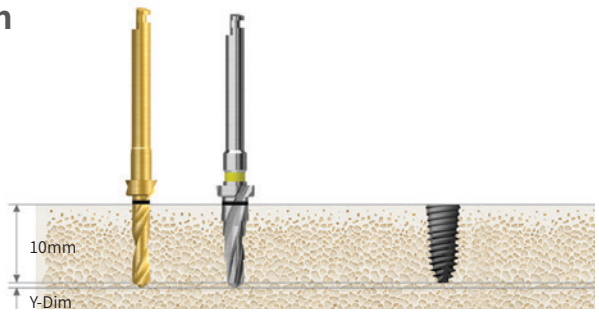
※ The ET/EK implant is placed 1 mm subcrestally for normal and hard bone. However, soft bone may be placed at the bone level to ensure stability.

Drilling Sequence **122 Taper Drill**

ETIV

(Length: 10mm)

ø4.0mm

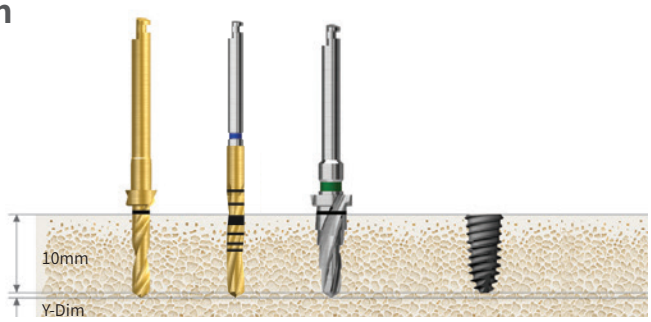


Bone Quality	ø2.2 Drill	F3.5 Taper Drill	Ø4.0 Implant
D4	▶		Implant Placement
Soft	▶	▶	

※ The recommended drill speed is 800–1,200 RPM, with an implant insertion torque of ≤40 Ncm.

※ The ET/EK implant is placed 1 mm subcrestally for normal and hard bone. However, soft bone may be placed at the bone level to ensure stability.

ø4.5mm

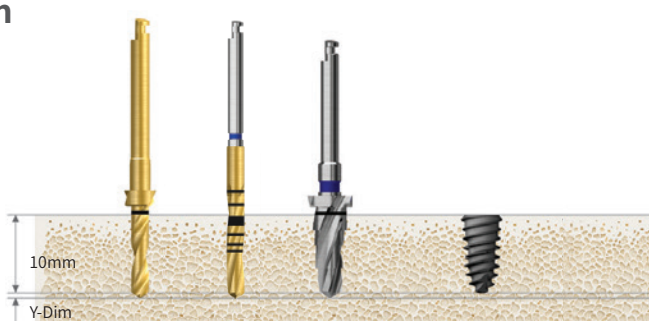


Bone Quality	ø2.2 Drill	ø3.0 Drill	F4.0 Taper Drill	Ø4.5 Implant
D4		▶		Implant Placement
Soft	▶		▶	

※ The recommended drill speed is 800–1,200 RPM, with an implant insertion torque of ≤40 Ncm.

※ The ET/EK implant is placed 1 mm subcrestally for normal and hard bone. However, soft bone may be placed at the bone level to ensure stability.

ø5.0mm



Bone Quality	ø2.2 Drill	ø3.0 Drill	F4.5 Taper Drill	Ø5.0 Implant
D4		▶		Implant Placement
Soft	▶		▶	

※ The recommended drill speed is 800–1,200 RPM, with an implant insertion torque of ≤40 Ncm.

※ The ET/EK implant is placed 1 mm subcrestally for normal and hard bone. However, soft bone may be placed at the bone level to ensure stability.

Unit of Measurement: **mm**


HIOSSEN
IMPLANT

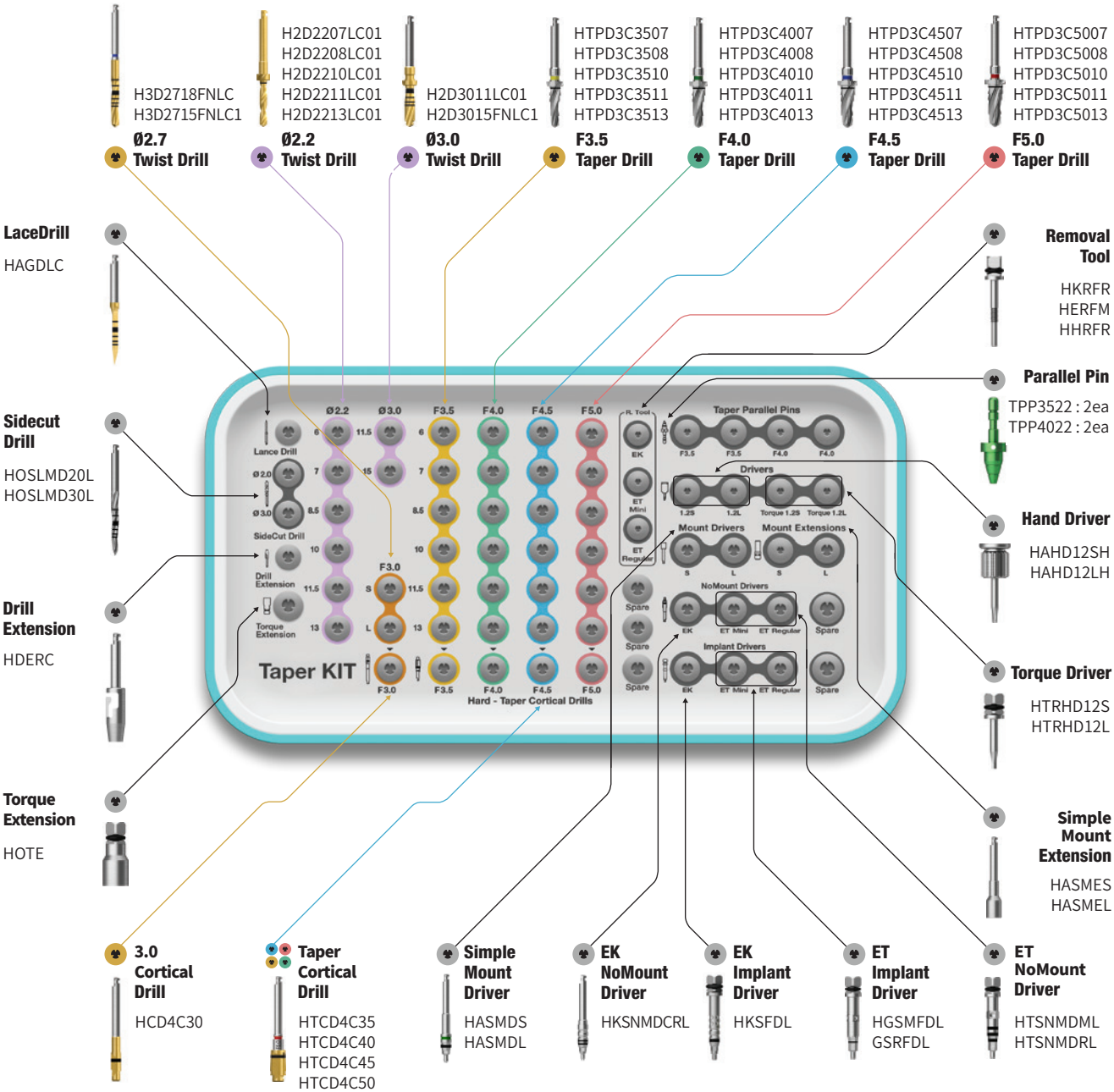
Taper Kit (HKTAPEK)

For EKIII ETIII/IV SSIII

Top panel components

Torque Wrench
TQWCB

Depth Gauge
ODG



Unit of Measurement: mm

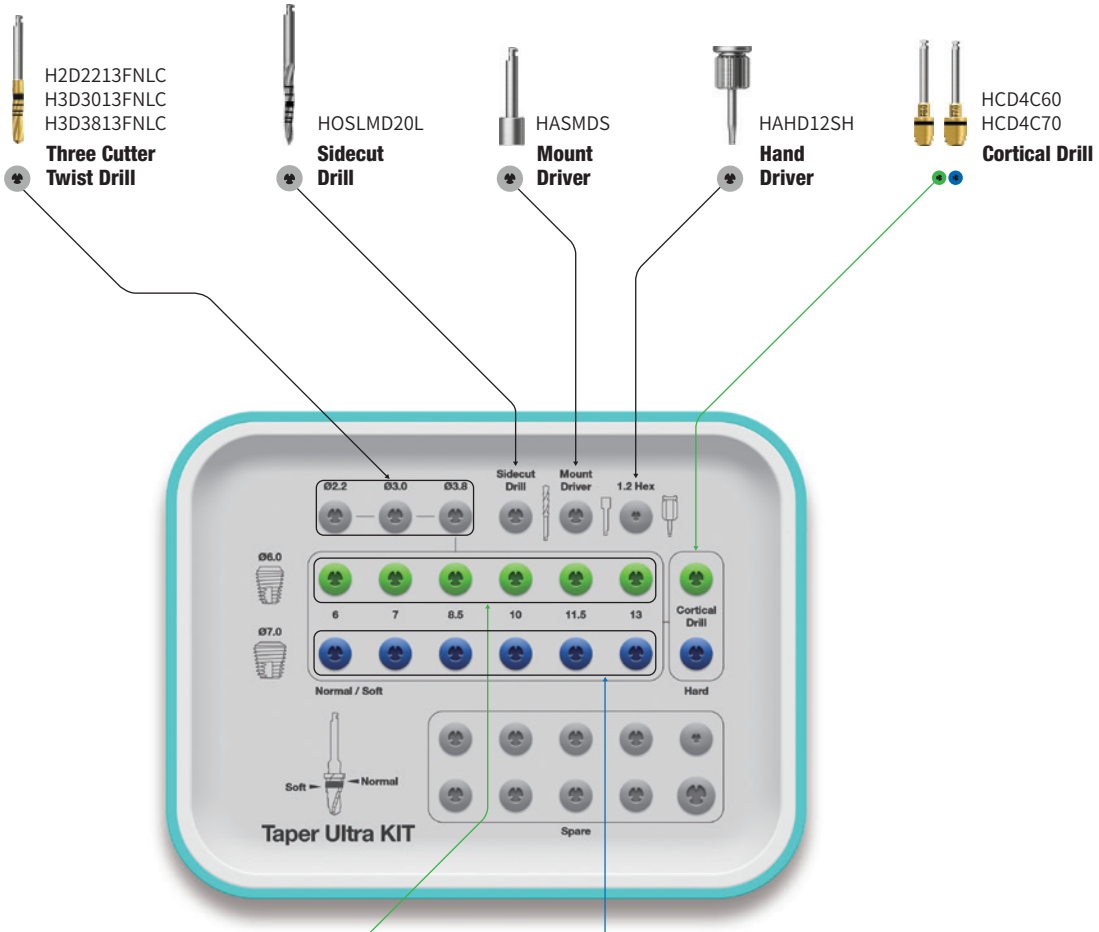
Taper Ultra Kit (HULTPK)

For Ultra-wide

Top panel components

Open Wrench
SPOW

Ratchet Wrench
RCWC



Ø6.0
Taper Ultra Drill

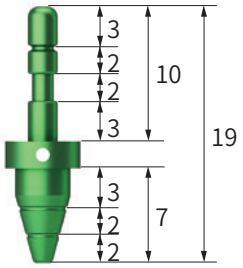
HTPD3C6006
HTPD3C6007
HTPD3C6008
HTPD3C6010
HTPD3C6011
HTPD3C6013

Ø7.0
Taper Ultra Drill

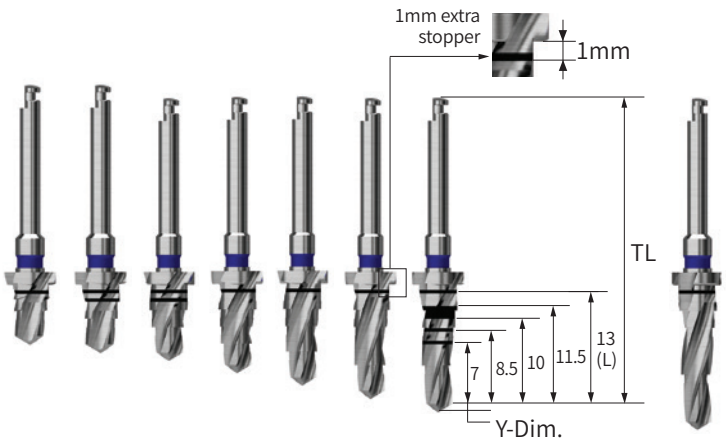
HTPD3C7006
HTPD3C7007
HTPD3C7008
HTPD3C7010
HTPD3C7011
HTPD3C7013

Taper Kit Surgical Kit Instruments

Parallel Pin for Taper Drill

Description	D/Ø	Item code	Image
• Parallel pin for taper drill • Used for checking position and direction of bone preparation • The lower part is for implant diameter drill and the upper part is for initial drill • Color coding by implant diameter (F3.5: yellow, F4.0: green, F4.5: blue, F5.0: silver) • 122 Taper & Taper Kit common components	**F3.5**	HTPP3522	
	F4.0	HTPP4022	
	F4.5	HTPP4522	
	F5.0	HTPP5022	

Taper Drill

Description	Image/Guide
• Taper drill for taper(III type) implant by diameter and length • Stopper drill with 1mm space • Color coding displays implant diameter • F3.5: yellow, F4.0: green, F4.5: blue, F5.0: red, F5.5: yellow • Taper Kit single item (*excluded from 122 Taper Kit)	

L	TL	D/Ø	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		HTPD3C3505	HTPD3C4005	HTPD3C4505	HTPD3C5005	-
6.0	30.5		HTPD3C3506	HTPD3C4006	HTPD3C4506	HTPD3C5006	HTPD3C5506
7.0	31.5		HTPD3C3507	HTPD3C4007	HTPD3C4507	HTPD3C5007	HTPD3C5507
8.5	33		HTPD3C3508	HTPD3C4008	HTPD3C4508	HTPD3C5008	HTPD3C5508
10	34.5		HTPD3C3510	HTPD3C4010	HTPD3C4510	HTPD3C5010	HTPD3C5510
11.5	34.5		HTPD3C3511	HTPD3C4011	HTPD3C4511	HTPD3C5011	HTPD3C5511
13	36		HTPD3C3513	HTPD3C4013	HTPD3C4513	HTPD3C5013	HTPD3C5513
15	38		HTPD3C3515	HTPD3C4015	HTPD3C4515	HTPD3C5015	HTPD3C5515
Color			Yellow	Green	Blue	Red	Yellow

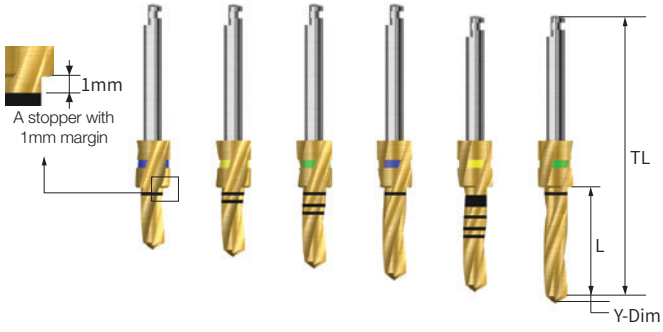
LaceDrill (Guide Drill)

Description	L	Item Code	Image
• Forming a hole to facilitate initial drilling • Bone density determined through drilling	**Long**	HAGDLC	

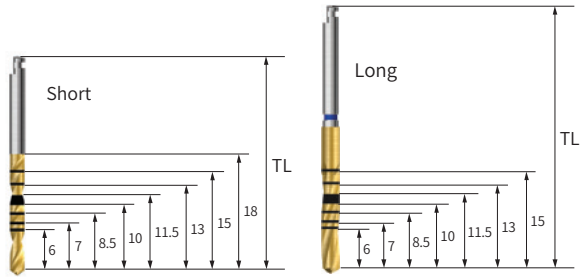
Unit of Measurement: **mm**

Taper Kit Surgical Kit Instruments

Slidecut Drill		
Description	Item Code	Image
• Forming a hole to facilitate initial drilling • Bone density determined through drilling	HOSLMD20L	

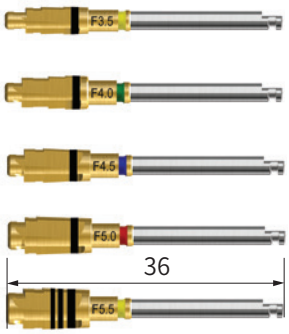
Twist Drill (Stopper Drill)	
Description	Image/Guide
• Included in New Hanaro KIT • Long stopper (6mm) • Enabling a procedure without drill extension for posterior region • The color coded stopper indicates the drill length	

L	TL	D/Ø	F2.2	F3.0	F3.3	F3.6	F3.8	F4.1	F4.3	F4.3
		Y-Dim.	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0
6	30.5		2D2206LC	3D3006LC	-	-	3D3806LC	-	-	-
7	31.5		2D2207LC01	3D3007LC01	-	-	3D3807LC01	-	-	-
8.5	33		2D2208LC01	3D3008LC01	-	-	3D3808LC01	-	-	-
10	34.5		2D2210LC01	3D3010LC01	-	-	3D3810LC01	-	-	-
11.5	34.5		2D2211LC01	3D3011LC01	3D3311LC01	3D3611LC01	3D3811LC01	3D4111LC01	3D4311LC01	3D4611LC01
13	36		2D2213LC01	3D3013LC01	-	-	3D3813LC01	-	-	-

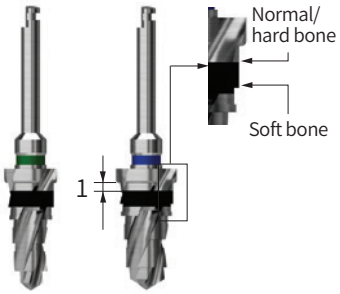
Twist Drill (Non Stopper Drill)	
Description	Image/Guide
• Included in New Hanaro KIT • Used for limited access for the Stopper Drill into the oral cavity • See the image provided in the Non-stopper Drill section for the sizes of the drill marking lines for short/long types	

TL	D/Ø	F1.5	F2.0	F2.2	F2.7	F3.0	F3.3
33	Short	2D1518FNLC	2D2018FNLC	2D2218FNLC	3D2718FNLC	3D3018FNLC	3D3318FNLC
41		-	-	2D2215FNLC01	3D2715FNLC01	3D3015FNLC01	3D3315FNLC01
	D/Ø	F3.6	F3.8	F4.1	F4.3	F4.6	
33	Long	3D3618FNLC	3D3818FNLC	3D4118FNLC	3D4318FNLC	3D4618FNLC	
41		3D3615FNLC01	3D3815FNLC01	3D4115FNLC01	3D4315FNLC01	3D4615FNLC01	

Taper Cortical Drill for Taper Implant (ETIII, SSIII)

Description	D/Ø	Item code	Image
• The drill is used to remove cortical bone of the hard bone (used right after the use of Taper Drill) • Dedicated drill for each implant diameter • F3.5~5.0 drill marking line: bottom line 8.5mm or less, top line 10mm or more implant placement standard • F5.5 drill marking line: bottom line 6mm or less, middle line 7mm, top line 8.5mm or more implant placement standard • It is recommended to drill to the bottom of the marking line • Taper Kit single item (excluded from 122 Taper Kit)	**F3.5**	HTCD4C35	
	F4.0	HTCD4C40	
	F4.5	HTCD4C45	
	F5.0	HTCD4C50	
	F5.5	HTCD4C55	

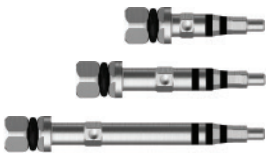
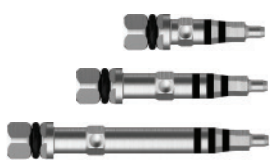
Taper Ultra Drill

Description	L	F6.0	F7.0	Image
• Taper drill for taper ultra-wide implant by diameter and length • Stopper drill with 1mm space • Color coding displays implant diameter	**6.0**	HTPD3C6006	HTPD3C7006	
	7.0	HTPD3C6007	HTPD3C7007	
	8.5	HTPD3C6008	HTPD3C7008	
	10	HTPD3C6010	HTPD3C7010	
	11.5	HTPD3C6011	HTPD3C7011	
	13	HTPD3C6013	HTPD3C7013	
	Color	Green	Blue	

Implant Driver for EK

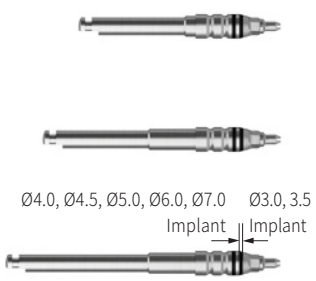
Description	C	Length	Item Code	Image
• Connects directly to an EK implant for final adjustments to the implant's depth • *C = Connection	**Regular**	**Short**	HKSFDS	
		Long	HKSFDL	

Implant Driver for ET

Description	C	Length	Item Code	Image
• Connects directly to an ET implant for final adjustments to the implant's depth • *C = Connection	**Mini**	**Short (17)**	HGSMFDS	
		Long (24)	GSMFDL	
		Ex. Long (34)	HGSMFDE	
	Regular	**Short (19)**	HGSRFDS	
		Long (26.6)	GSRFDL	
		Ex. Long (33.6)	HGSRFDE	

Unit of Measurement: **mm**

Taper Kit Surgical Kit Instruments

NoMount Driver for EK				
Description	C	Length	Item Code	Image
• Ø3.5 implant is combined with the bottom of the lower marking • Ø4.0, Ø4.5, Ø5.0, Ø6.0 and Ø7.0 implants are combined with the upper part of the lower marking • The distance between the two laser marking is 0.5mm • C= Connection	Regular	Short (27.6)	HKSNMDCRS	
		Long (32.6)	HKSNMDCRL	
		Extra Long (37.6)	HKSNMDCRE	

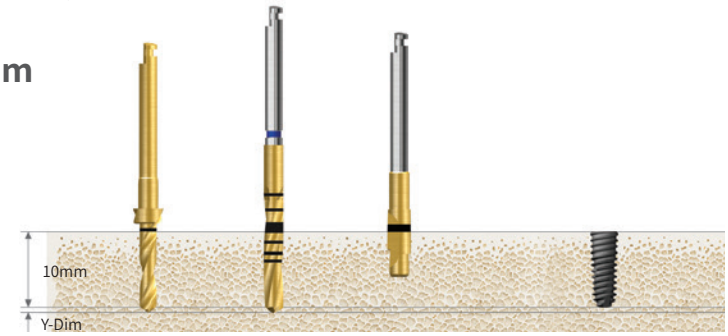
NoMount Torque Driver for ET				
Description	C	Length	Item Code	Image
• Directly connects to an ET Implant for placement with a Torque Wrench • Ensure correct and complete seating before applying torque; loose connection may cause implant fracture • C= Connection	Mini	Short (19)	HGSNMT32S	
		Long (26.6)	HGSNMT32L	
		Ex. Long (33.6)	HGSNMT32E	
	Regular	Short (19)	HGSNMT35S	
		Long (26.6)	HGSNMT35L	
		Ex. Long (33.6)	HGSNMT35E	

Drilling Sequence **Taper Drill**

EKIII | ETIII | SSIII

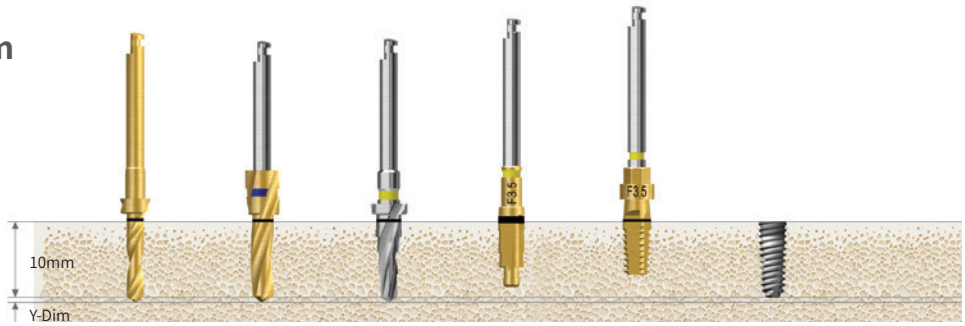
(Length: 10mm)

ø3.2mm



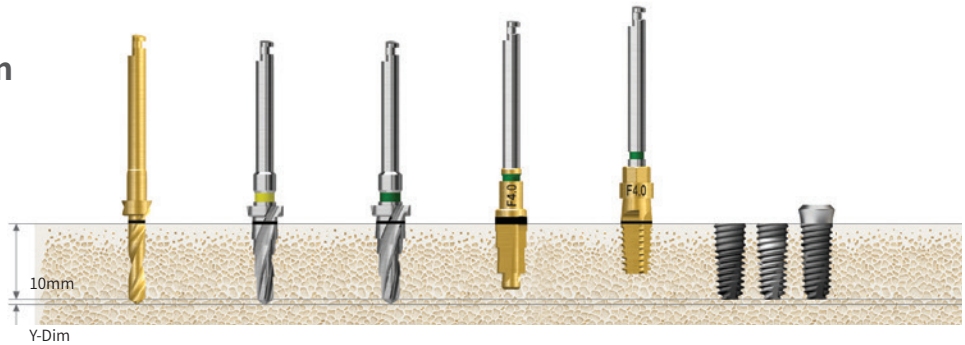
Bone Quality	ø2.2 Drill	ø2.7 Drill	F3.0 Cortical Drill	Ø3.0 Implant
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

ø3.5mm



Bone Quality	ø2.2 Drill	ø3.0 Drill	F3.5 Taper Drill	F3.5 Taper Cortical Drill	F3.5 Taper Implant Tap	Ø3.5 Implant
Soft	▶	▶				Implant Placement
Normal	▶		▶			
Hard	▶		▶	▶		
Hard (Option)	▶		▶		▶	

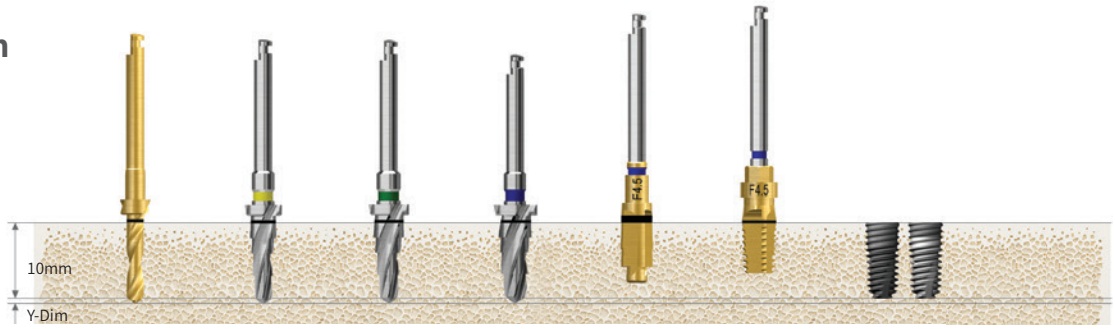
ø4.0mm



Bone Quality	ø2.2 Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.0 Taper Cortical Drill	F4.0 Taper Implant Tap	Ø4.0 Implant
Soft	▶	▶				Implant Placement
Normal	▶	▶	▶			
Hard	▶	▶	▶	▶		
Hard (Option)	▶	▶	▶		▶	

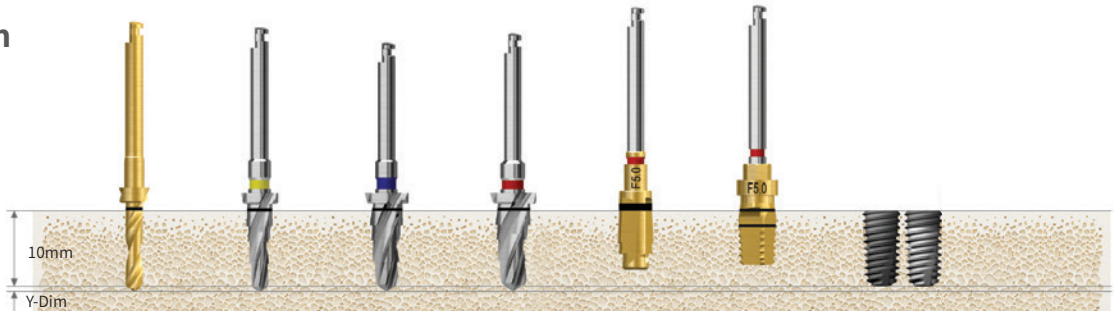
Unit of Measurement: **mm**

ø4.5mm



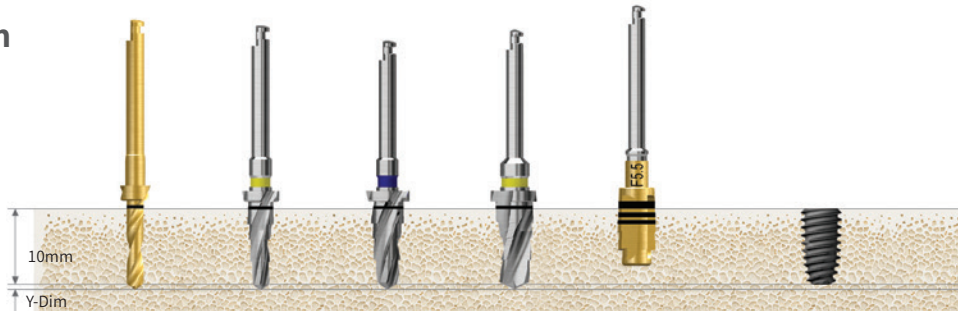
Bone Quality	ø2.2 Drill	F3.5 Taper Drill	F4.0 Taper Drill	F4.5 Taper Drill	F4.5 Taper Cortical Drill	F4.5 Taper Implant Tap	Ø4.5 Implant
Soft	▶	▶	▶				Implant Placement
Normal	▶	▶		▶			
Hard	▶	▶		▶	▶		
Hard (Option)	▶	▶		▶		▶	

ø5.0mm



Bone Quality	ø2.2 Drill	F3.5 Taper Drill	F4.5 Taper Drill	F5.0 Taper Drill	F5.0 Taper Cortical Drill	F5.0 Taper Implant Tap	Ø5.0 Implant
Soft	▶	▶	▶				Implant Placement
Normal	▶	▶	▶	▶			
Hard	▶	▶	▶	▶	▶		
Hard (Option)	▶	▶	▶	▶		▶	

ø5.5mm



Bone Quality	ø2.2 Drill	F3.5 Taper Drill	F4.5 Taper Drill	F5.5 Taper Drill	F5.5 Taper Implant Tap	Ø5.5 Implant
Soft	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶	▶	▶	

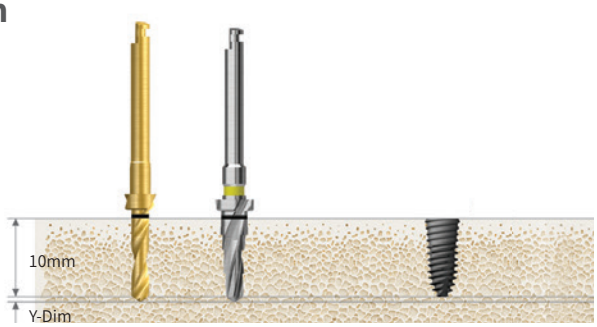
F5.5 taper cortical drill marking line: bottom line 6mm or less, middle line 7mm, top line 8.5mm or more
Recommended insertion torque ≤40Ncm. ET implant insertion depth in normal/hard bone is placed 1mm deeper than the bone level, and the soft bone is placed at the bone level to maintain initial stability.
Implant tap used in hard bone: 25rpm recommended with engine or use with torque wrench after fastening to mount extension (F5.0 implant tap: bottom line 7mm or less, top line 8.5mm or more).

Drilling Sequence **Taper Drill**

ETIV

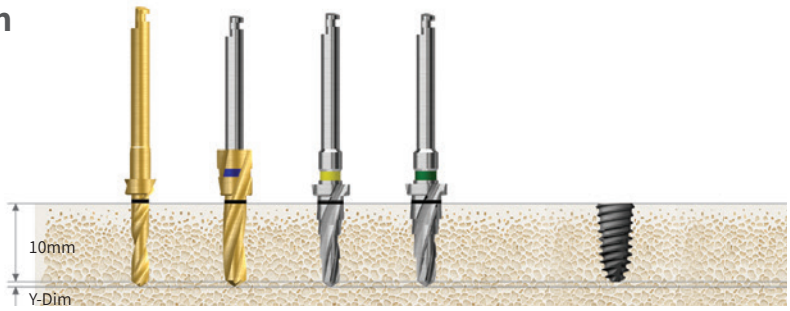
(Length: 10mm)

ø4.0mm



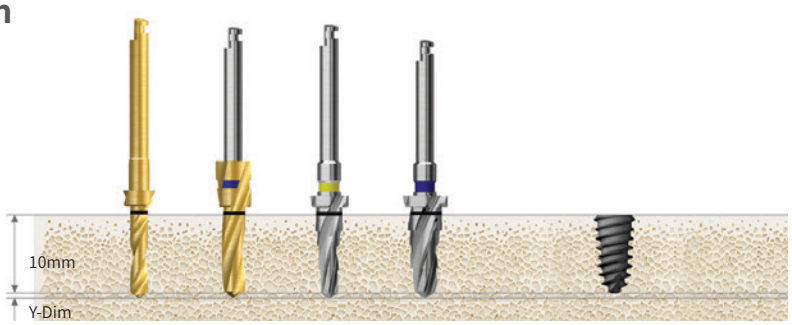
Bone Quality	Ø2.2 Drill	F3.5 Taper Drill	Ø4.0 Implant
D4	▶		Implant Placement
Soft	▶	▶	

ø4.5mm



Bone Quality	Ø2.2 Drill	Ø3.0 Drill	F3.5 Taper Drill	F4.0 Taper Drill	Ø4.5 Implant
D4		▶			Implant Placement
Soft	▶		▶	▶	

ø5.0mm



Bone Quality	Ø2.2 Drill	Ø3.0 Drill	F3.5 Taper Drill	F4.5 Taper Drill	Ø5.0 Implant
D4		▶			Implant Placement
Soft	▶		▶	▶	

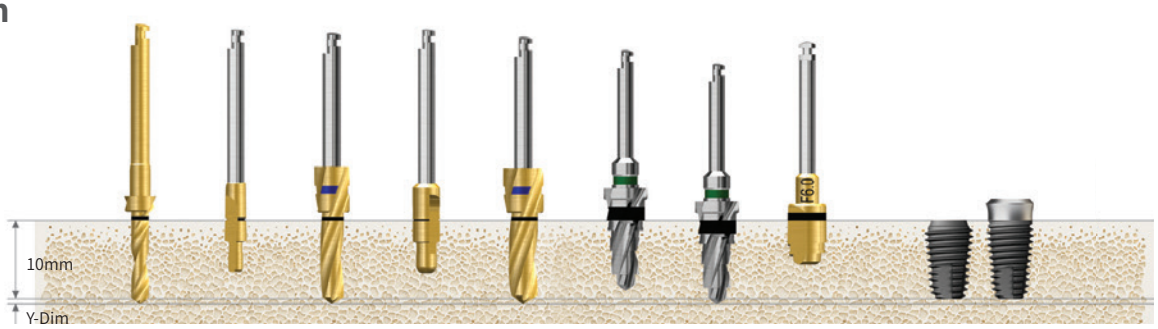
Unit of Measurement: **mm**

Drilling Sequence **Taper Drill**

ETIII Ultra-wide

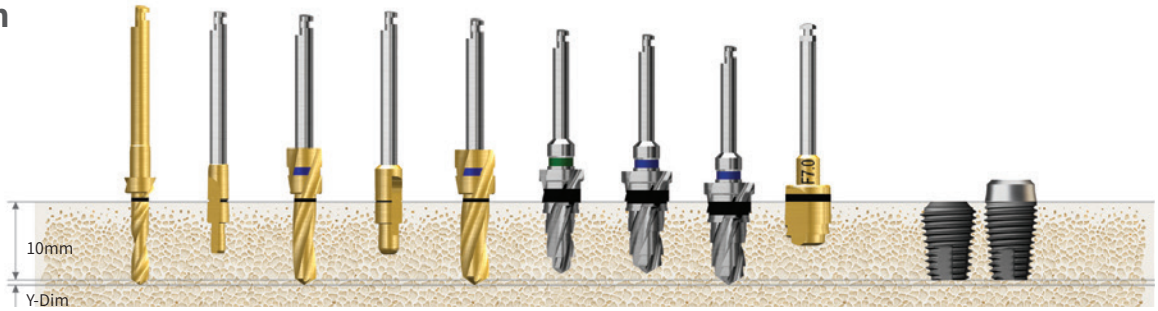
(Length: 10mm)

ø6.0mm



Bone Quality	ø2.2 Drill	ø2.0/3.0 Pilot Drill	ø3.0 Drill	ø3.0/3.8 Pilot Drill	ø3.8 Drill	F6.0 Taper Drill	F6.0 Taper Drill	F6.0 Cortical Drill	Ø6.0 Implant
Soft	▶	▶	▶	▶		▶			Implant Placement
Normal	▶	▶	▶	▶	▶		▶		
Hard	▶	▶	▶	▶	▶		▶	▶	

ø7.0mm



Bone Quality	ø2.2 Drill	ø2.0/3.0 Pilot Drill	ø3.0 Drill	ø3.0/3.8 Pilot Drill	ø3.8 Drill	F6.0 Taper Drill	F7.0 Taper Drill	F7.0 Taper Drill	F7.0 Cortical Drill	Ø7.0 Implant
Soft	▶	▶	▶	▶		▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶		▶		
Hard	▶	▶	▶	▶	▶	▶		▶	▶	

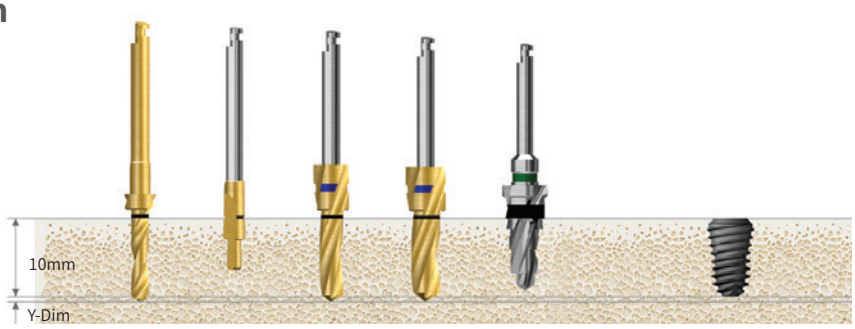
Recommended placement torque less than 40Ncm.
ET implant placement depth. The normal/hard bone is placed 1mm deeper than bone level, and the soft bone is placed at the bone level to maintain initial stability.

Drilling Sequence **Taper Drill**

ETIV Ultra-wide

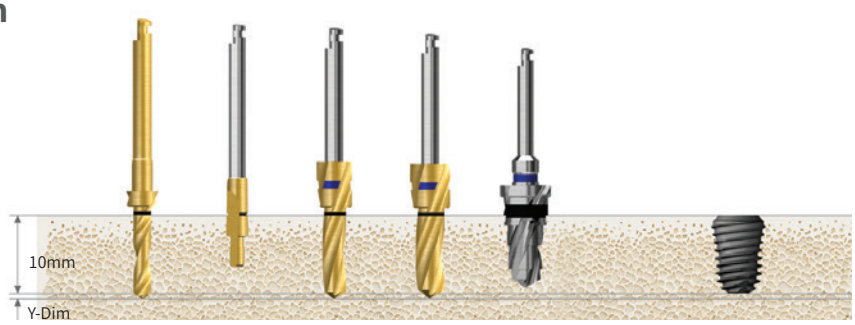
(Length: 10mm)

ø6.0mm



Bone Quality	ø2.2 Drill	ø2.0/3.0 Pilot Drill	ø3.0 Drill	ø3.8 Drill	F6.0 Taper Drill	Ø6.0 Implant
D4	▶			▶		Implant Placement
Soft	▶	▶	▶		▶	

ø7.0mm



Bone Quality	ø2.2 Drill	ø2.0/3.0 Pilot Drill	ø3.0 Drill	ø3.8 Drill	F7.0 Taper Drill	Ø7.0 Implant
D4	▶			▶		Implant Placement
Soft	▶	▶	▶		▶	

Recommended placement torque less than 40Ncm.
ET implant placement depth. The normal/hard bone is placed 1mm deeper than bone level, and the soft bone is placed at the bone level to maintain initial stability.

Unit of Measurement: **mm**

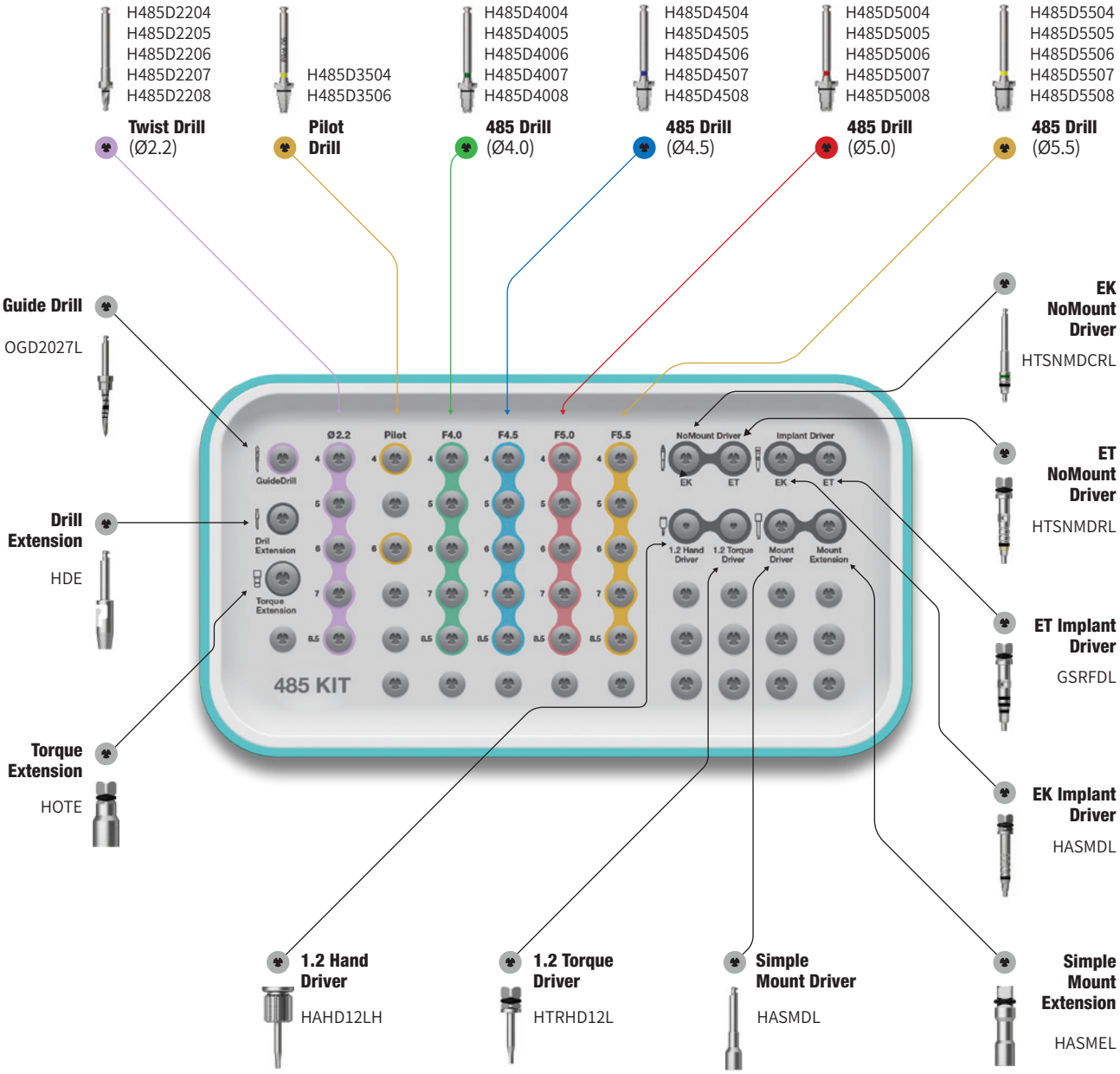
485 Kit (H485K)

For EKIII ETIII/IV SSII/III Ultra-Wide

Top panel components

Torque Wrench
TQWCB

Depth Gauge
ODG

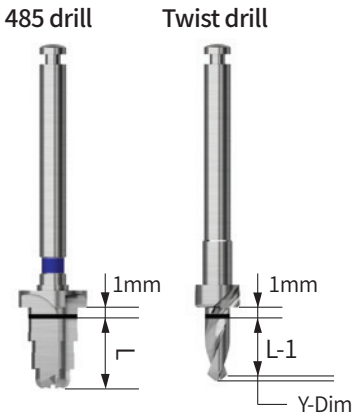


※ More details on Kit components can be found in Surgical Instruments (Page 102)

Unit of Measurement: mm

485 Kit Surgical Kit Instruments

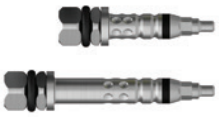
Guide Drill		
Description	Ø2.2	Image
• Drill for marking location of osteotomy to facilitate initial drilling	OGD2027L	

485 Drill	
Description	Image/Guide
• Included in 485 Kit • A drill for placing short implants in alveolar bone lacking in vertical dimension • Ø 2.2 drill: straight drill • Except for Ø 2.2 drill, the top blade of the drill is in the shape of CAS Drill, and the side blade is in the shape of taper drill • A stopper drill with 1mm margin • Recommended drilling speed: 800~1,200rpm	

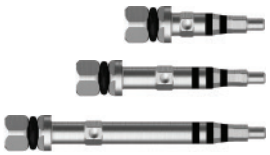
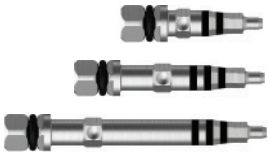
L	Ø2.2	Pilot	F4.0	F4.5	F5.0	F5.5
4.0	H485D2204	H485D3504	H485D4004	H485D4504	H485D5004	H485D5504
5.0	H485D2205	-	H485D4005	H485D4505	H485D5005	H485D5505
6.0	H485D2206	H485D3506	H485D4006	H485D4506	H485D5006	H485D5506
7.0	H485D2207	-	H485D4007	H485D4507	H485D5007	H485D5507
8.5	H485D2208	-	H485D4008	H485D4508	H485D5008	H485D5508

485 Kit Surgical Kit Instruments

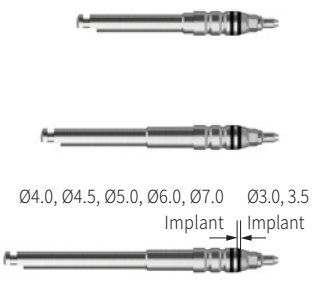
Implant Driver for EK

Description	C	Length	Item Code	Image
• Connects directly to an EK implant for final adjustments to the implant's depth • *C = Connection	Regular	Short	HKSFDS	
		Long	HKSFDL	

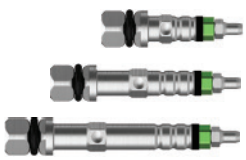
Implant Driver for ET

Description	C	Length	Item Code	Image
• Connects directly to an ET implant for final adjustments to the implant's depth • *C = Connection	Mini	Short (17)	HGSMFDS	
		Long (24)	GSMFDL	
		Ex. Long (34)	HGSMFDE	
	Regular	Short (19)	HGSRFDS	
		Long (26.6)	GSRFDL	
		Ex. Long (33.6)	HGSRFDE	

NoMount Driver for EK

Description	C	Length	Item Code	Image
• Ø3.5 implant is combined with the bottom of the lower marking • Ø4.0, Ø4.5, Ø5.0, Ø6.0 and Ø7.0 implants are combined with the upper part of the lower marking • The distance between the two laser marking is 0.5mm • C= Connection	Regular	Short (27.6)	HKSNMDCRS	
		Long (32.6)	HKSNMDCRL	
		Extra Long (37.6)	HKSNMDCRE	

NoMount Torque Driver for ET

Description	C	Length	Item Code	Image
• Directly connects to an ET Implant for placement with a Torque Wrench • Ensure correct and complete seating before applying torque; loose connection may cause implant fracture • C= Connection	Mini	Short (19)	HGSNMT32S	
		Long (26.6)	HGSNMT32L	
		Ex. Long (33.6)	HGSNMT32E	
	Regular	Short (19)	HGSNMT35S	
		Long (26.6)	HGSNMT35L	
		Ex. Long (33.6)	HGSNMT35E	

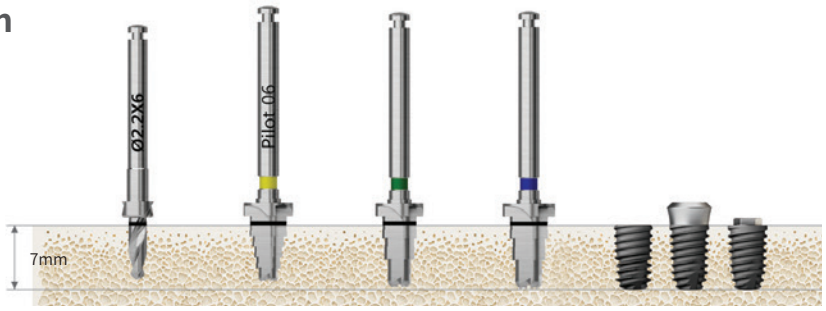
Unit of Measurement: mm

Drilling Sequence **485 Drill**

EKIII | ETIII/IV | SSII/III | ULTRA-WIDE

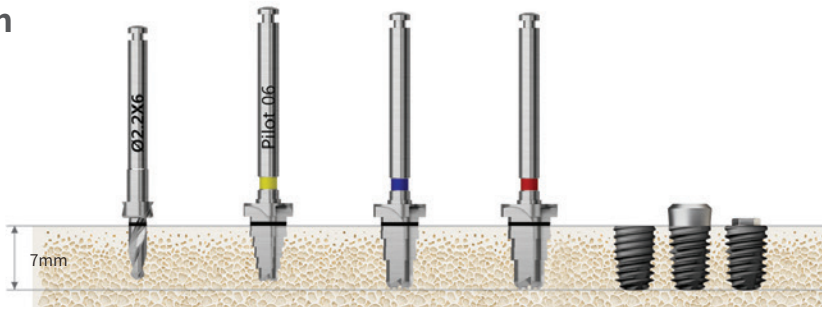
(Length: 7mm)

ø4.0mm



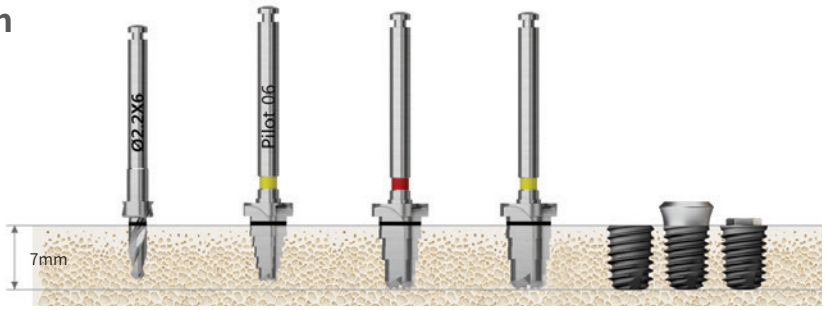
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill	485 Drill (F4.0)	485 Drill (F4.5)	Ø4.0 Implant
Normal	▶	▶	▶		Implant Placement
Hard	▶	▶		▶	

ø4.5mm



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

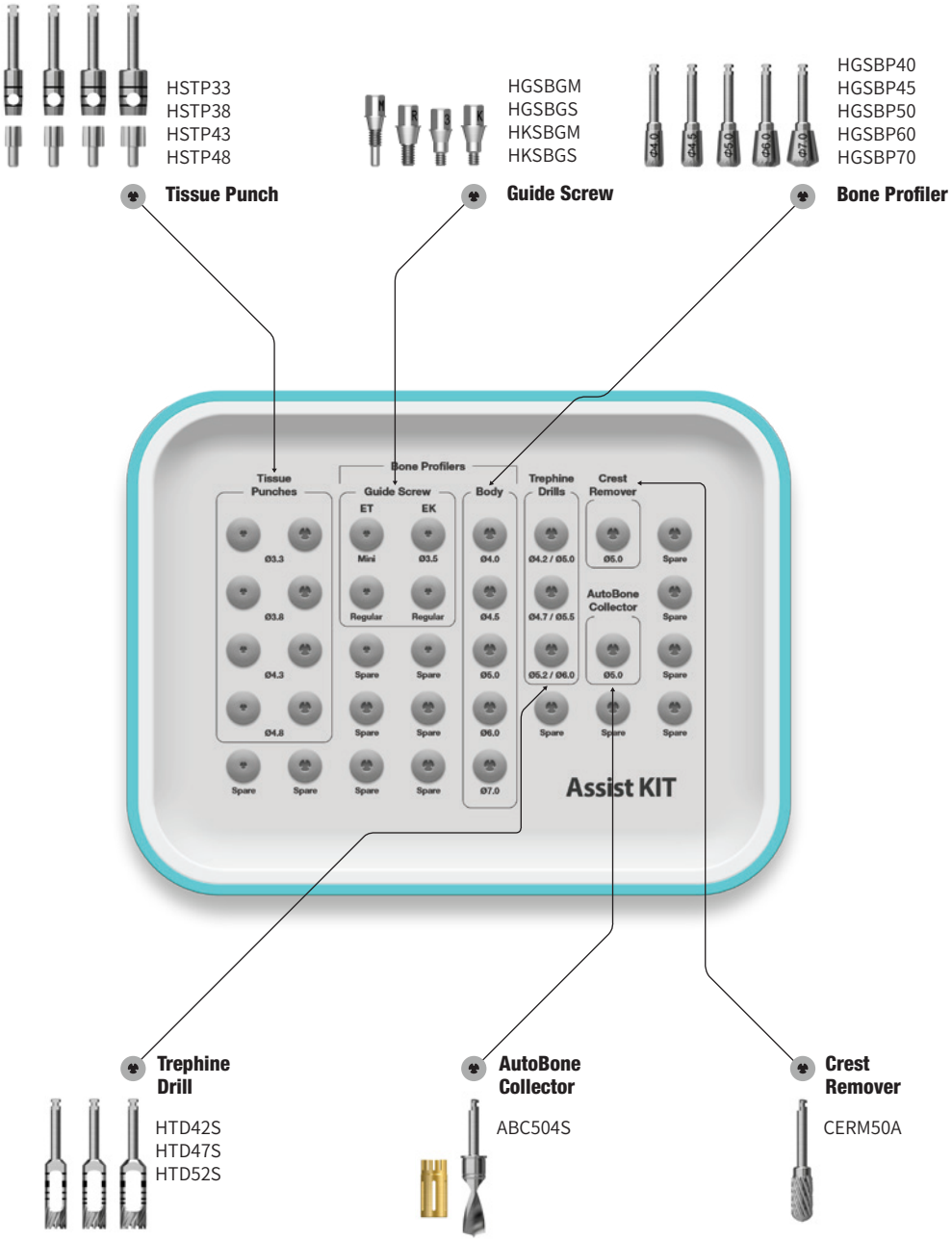
ø5.0mm



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

Assist Kit (HOAK)

• Bone profilers are only sold in the packing unit of “Guide Screw + Bone Profiler”



Unit of Measurement: mm

Assist Kit Surgical Instrument

Tissue Punch

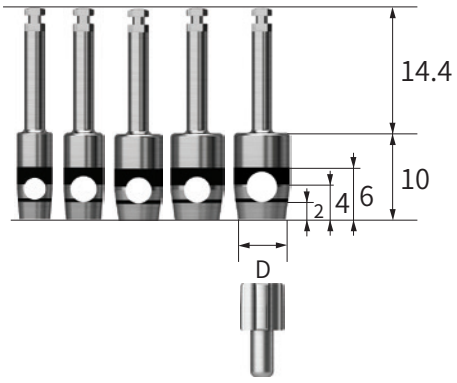
Description/Item code

- For flapless surgery
- Laser marking to measure the height of gingiva, marked in 2mm increments
- Packing unit: tissue punch + guide pin
- Recommend to use a tissue punch smaller than the healing abutment by 0.7 to 1.5mm

ET	SS	D/Ø	Item Code
Ø 4.0/4.5	-	Ø3.3	HSTP33
Ø 4.5/5.0	Ø 4.8	Ø3.8	HSTP38
Ø 5.0	-	Ø4.3	HSTP43
Ø 6.0	Ø 6.0	Ø4.8	HSTP48
Ø 6.0	Ø 6.0	Ø5.3	HSTP53

Application healing abutment standard

Image/Guide



Bone Profiler

Description/Item code

- Used to remove bone around the implant after first or second stage surgery
- Connect the Guide Screw to the implant in order to center the profiler
- Guide screw protects the implant's platform from damage
- Packing unit: bone profiler + guide screw
- *C = Connection

Guide Screw	D (Healing Abutment)	ET Mini / Regular	EK Regular
ET (Mini + Regular)		HGSBGM	HGSBGS
EK (3.0/3.5 + Regular)		HKSBGM	HKSBGS
ET (Mini + Regular)	Ø4.0	HGSBP40	HKSBP40
EK (3.0/3.5 + Regular)	Ø4.5	HGSBP45	HKSBP45
Regular	Ø5.0	HGSBP50	HKSBP50
	Ø6.0	HGSBP60	HKSBP60
	Ø7.0	HGSBP70	HKSBP70

Image/Guide

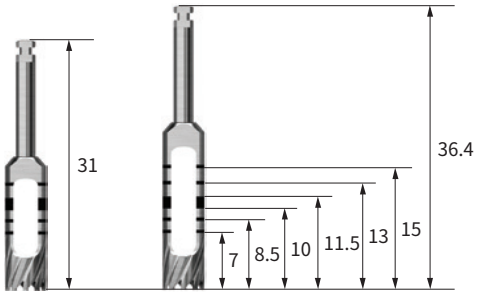
Trephine Drill

Description/Item code

- Harvests bone or removes a failed implant
- Used to remove septal bone
- Can also be used as the initial drill for ultra-wide implants

D/Ø (Inner/Outer)	Short	Long
3.7/4.5	HTD37S	HTD37
4.2/5.0	HTD42S	HTD42
4.7/5.5	HTD47S	HTD47
5.2/6.0	HTD52S	HTD52
5.7/6.5	HTD57S	HTD57
6.2/7.0	HTD62S	HTD62

Image/Guide



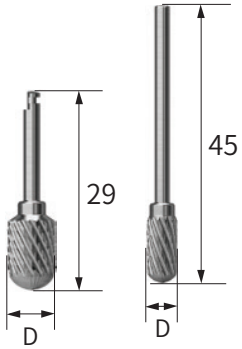
Crest Remover

Description/Item code

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

L	29	45
D Ø5.0	ERM50A	CERM50S
D Ø7.0	-	CERM70A

Image/Guide



AutoBone Collector®

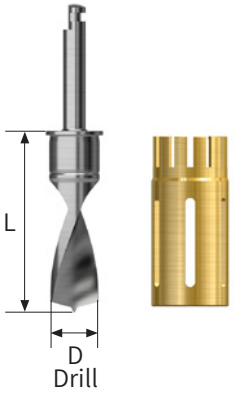
Description/Item code

- Used for autogenous bone collecting
- Comes in a Drill + Stopper set
- Recommended drilling speed: 300~600rpm
- Number of uses for the drill and stopper: 50 times

※ Before initial drilling, connect the stopper to the first stage locking and harvest autogenous bone while drilling 4mm into the second stage locking (after harvesting, stop the drill and remove as it is with autogenous bone kept in the stopper)

D	Short (18.94)	Long (21.94)
Ø3.0	ABC304S	ABC304L
Ø4.0	ABC404S	ABC404L
Ø5.0	ABC504S	ABC504L
Ø6.0	ABC604S	ABC604L

Image/Guide



Unit of Measurement: **mm**


HIOSSEN
IMPLANT

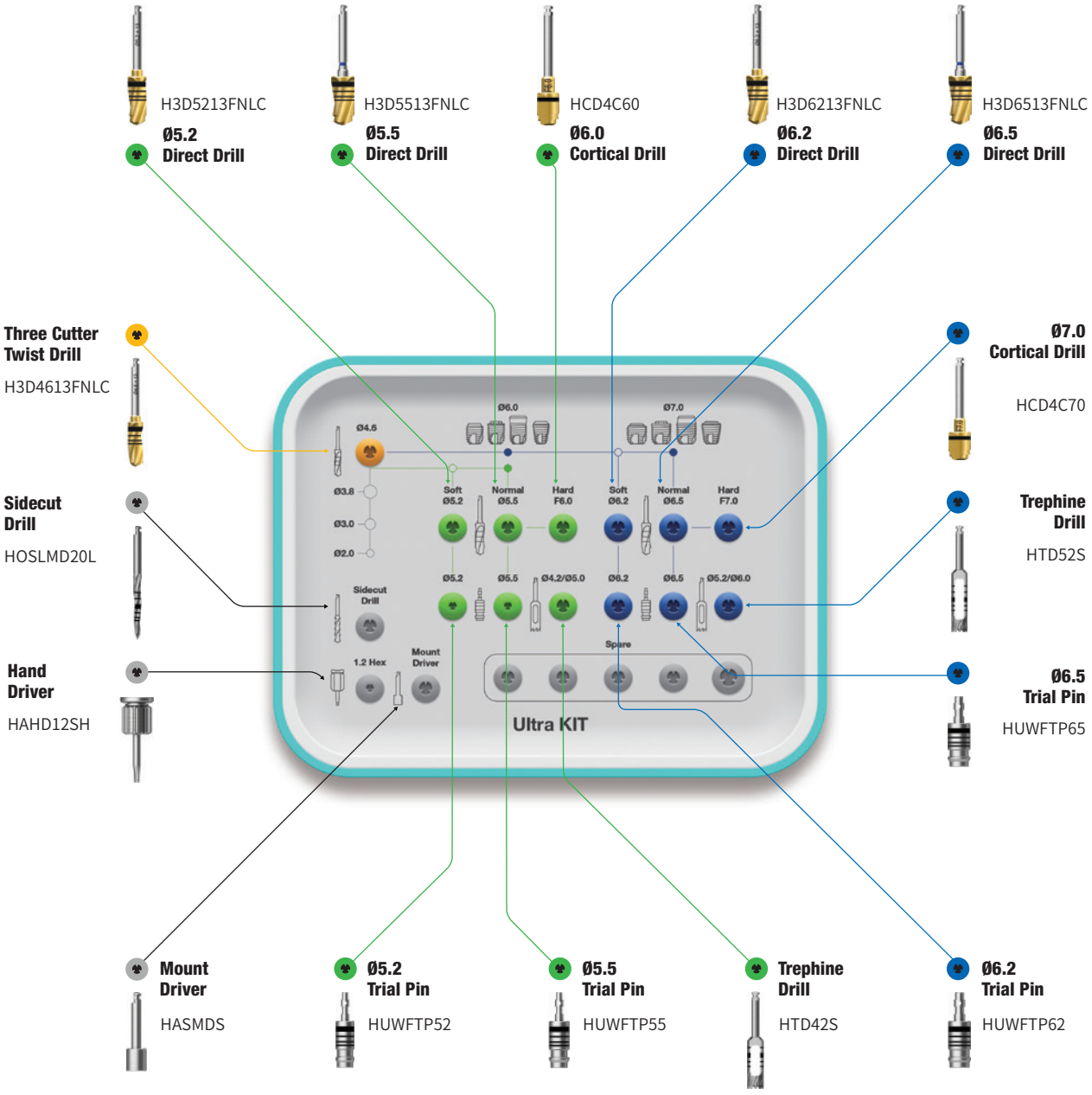
Ultra Kit (HULTRK)

Lower panel components

Open Wrench
SPOW

Ratchet Wrench
RCWC

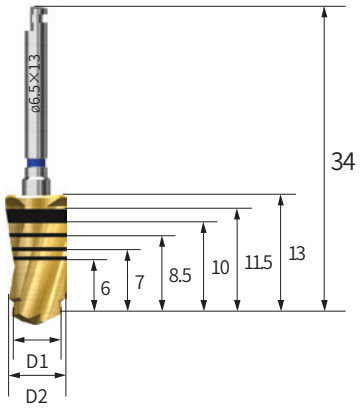
For Ultra-Wide

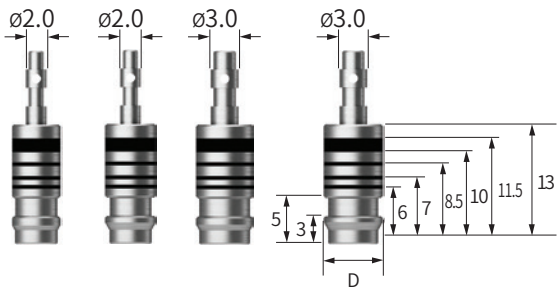


Unit of Measurement: mm

Ultra Kit Surgical Kit Instruments

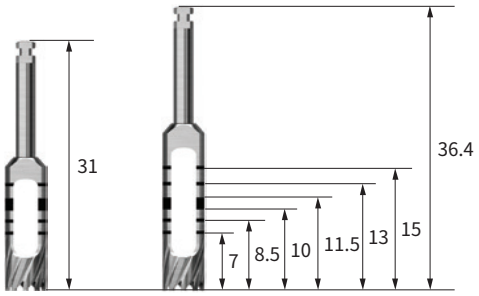
Sidecut Drill		
Description	Item Code	Image
• Forming a hole to facilitate initial drilling • Bone density determined through drilling	HOSLMD20L	

Direct Drill			
Description	D1/D2	Item code	Image/Guide
• Direct drill: two-step drill that functions like a pilot and twist drill • Final drilling is possible without using pilot drill • Increases initial stability in an extraction socket due to the reduced dead space at the apex	**Ø4.6/5.2**	H3D5213FNLC	
	Ø4.6/5.5	H3D5513FNLC	
	Ø5.5/6.2	H3D6213FNLC	
	Ø5.5/6.5	H3D6513FNLC	

Trial Pin for Ultra-wide			
Description	D	Item code	Image/Guide
• Measures the width and depth of a failed implant site • Measures the drilling depth after using the direct drill as the final drill • Also serves as a parallel pin	**Ø5.2**	HUWFTP52	
	Ø5.5	HUWFTP55	
	Ø6.2	HUWFTP62	
	Ø6.5	HUWFTP65	

Ultra Kit Surgical Kit Instruments

Cortical Drill for Ultra-wide			
Description	D/Ø	Item code	Image
• Trims cortical bone in hard bone cases (for ultra-wide type implants) • Drill specifically designed for ultra-wide implant's unique diameter • Drilling recommended until the bottom of the marker has been reached	**F6.0**	HCD4C60	
	F7.0	HCD4C70	

Trephine Drill			
Description/Item code			Image/Guide
• Harvests bone or removes a failed implant • Used to remove septal bone • Can also be used as the initial drill for ultra-wide implants			
D/Ø (Inner/Outer)	**Short**	**Long**	
3.7/4.5	HTD37S	HTD37S	
4.2/5.0	HTD42S	HTD42S	
4.7/5.5	HTD47S	HTD47S	
5.2/6.0	HTD52S	HTD52S	
5.7/6.5	HTD57S	HTD57S	
6.2/7.0	HTD62S	HTD62S	

Unit of Measurement: **mm**

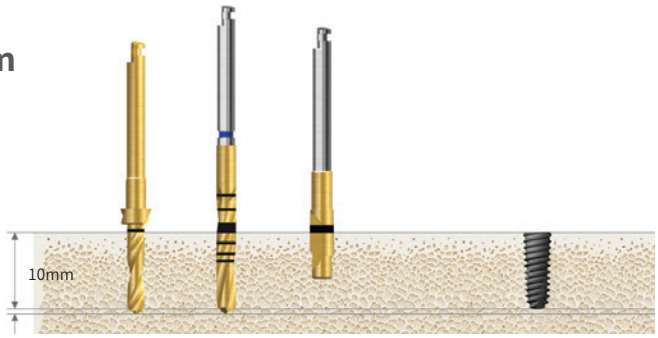

HIOSSEN
IMPLANT

Drilling Sequence III Type Straight Drill

EKIII | ETIII | SSIII

(Length: 10mm)

ø3.2mm



Bone Quality	ø2.2 Drill	ø2.7 Drill	F3.0 Cortical Drill 2	Ø3.0 Implant
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

ø3.5mm

Bone Quality	ø2.2 Drill	ø2.0/3.0 Pilot Drill	ø3.0 Drill	F3.5 Cortical Drill 3	F3.5 Cortical Drill 3	Ø3.5 Implant
Soft	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶		▶	

ø4.0mm

Bone Quality	ø2.2 Drill	ø2.0/3.0 Pilot Drill	ø3.0 Drill	ø3.3 Drill	F4.0 Cortical Drill 3	F4.0 Cortical Drill 3	Ø4.0 Implant
Soft	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶		
Hard	▶	▶	▶	▶		▶	

Unit of Measurement: **mm**

Drilling Sequence III Type Straight Drill

EKIII | ETIII | SSIII

(Length: 10mm)

Ø4.5mm

Bone Quality	Ø2.2 Drill	Ø2.0/3.0 Pilot Drill	Ø3.0 Drill	Ø3.0/3.8 Pilot Drill	Ø3.8 Drill	F4.5 Cortical Drill 3	F4.5 Cortical Drill 3	Ø4.5 Implant
Soft	▶	▶	▶	▶	▶			
Normal	▶	▶	▶	▶	▶	▶		Implant Placement
Hard	▶	▶	▶	▶	▶		▶	

Ø5.0mm

Bone Quality	Ø2.2 Drill	Ø2.0/3.0 Pilot Drill	Ø3.0 Drill	Ø3.0/3.8 Pilot Drill	Ø3.8 Drill	Ø4.3 Drill	F5.0 Cortical Drill 3	F5.0 Cortical Drill 3	Ø5.0 Implant
Soft	▶	▶	▶	▶	▶				
Normal	▶	▶	▶	▶	▶	▶	▶		Implant Placement
Hard	▶	▶	▶	▶	▶	▶		▶	

Ø5.5mm

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

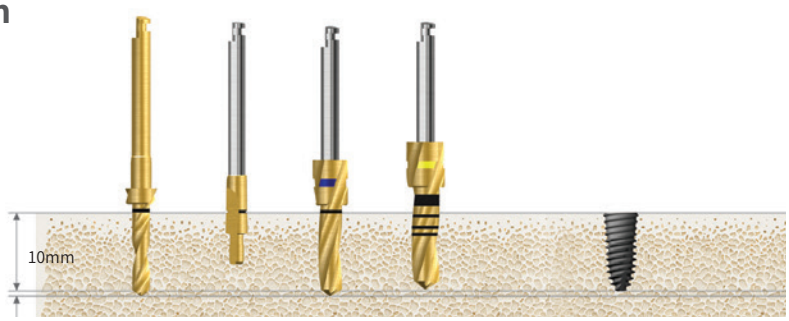
Recommended insertion torque ≤40Ncm.
ET implant insertion depth in normal/hard bone is placed 1mm deeper than the bone level, and the soft bone is placed at the bone level to maintain initial stability.

Drilling Sequence IV Type **Straight Drill**

ETIV

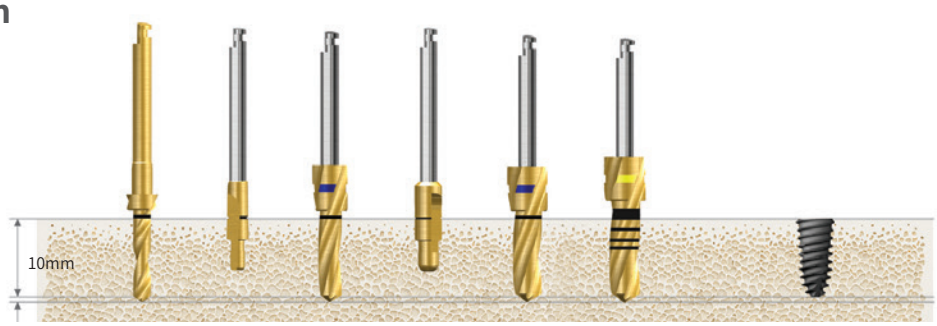
(Length: 10mm)

ø4.0mm



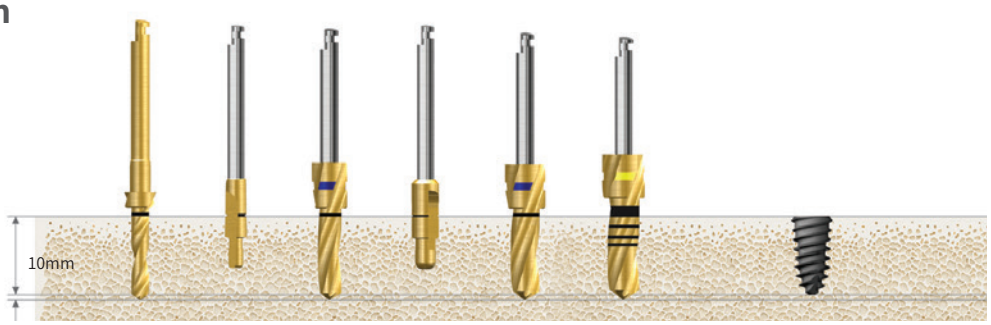
Bone Quality	Ø2.2 Drill	Ø2.0/3.0 Pilot Drill	Ø3.0 Drill	Ø3.0 Drill (Half)	Ø4.0 Implant
D4	▶				Implant Placement
Soft	▶	▶	▶	▶	

ø4.5mm



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

ø5.0mm



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

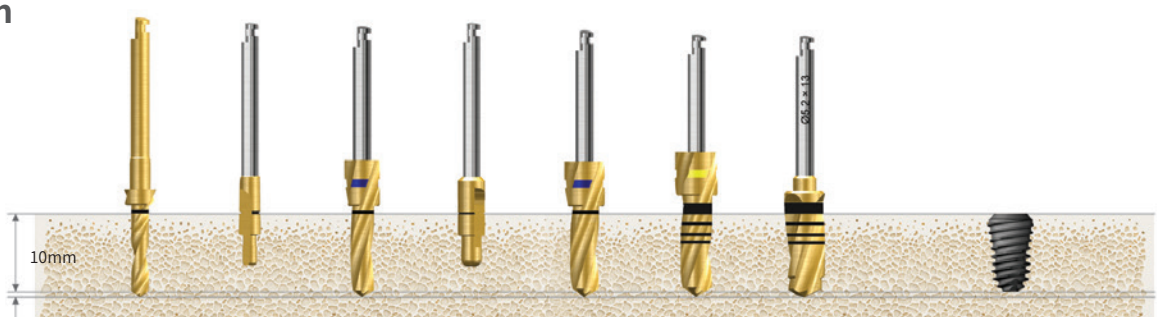
Unit of Measurement: **mm**

Drilling Sequence Ultra-wide **Straight Drill**

ETIV Ultra-Wide

(Length: 10mm)

ø6.0mm



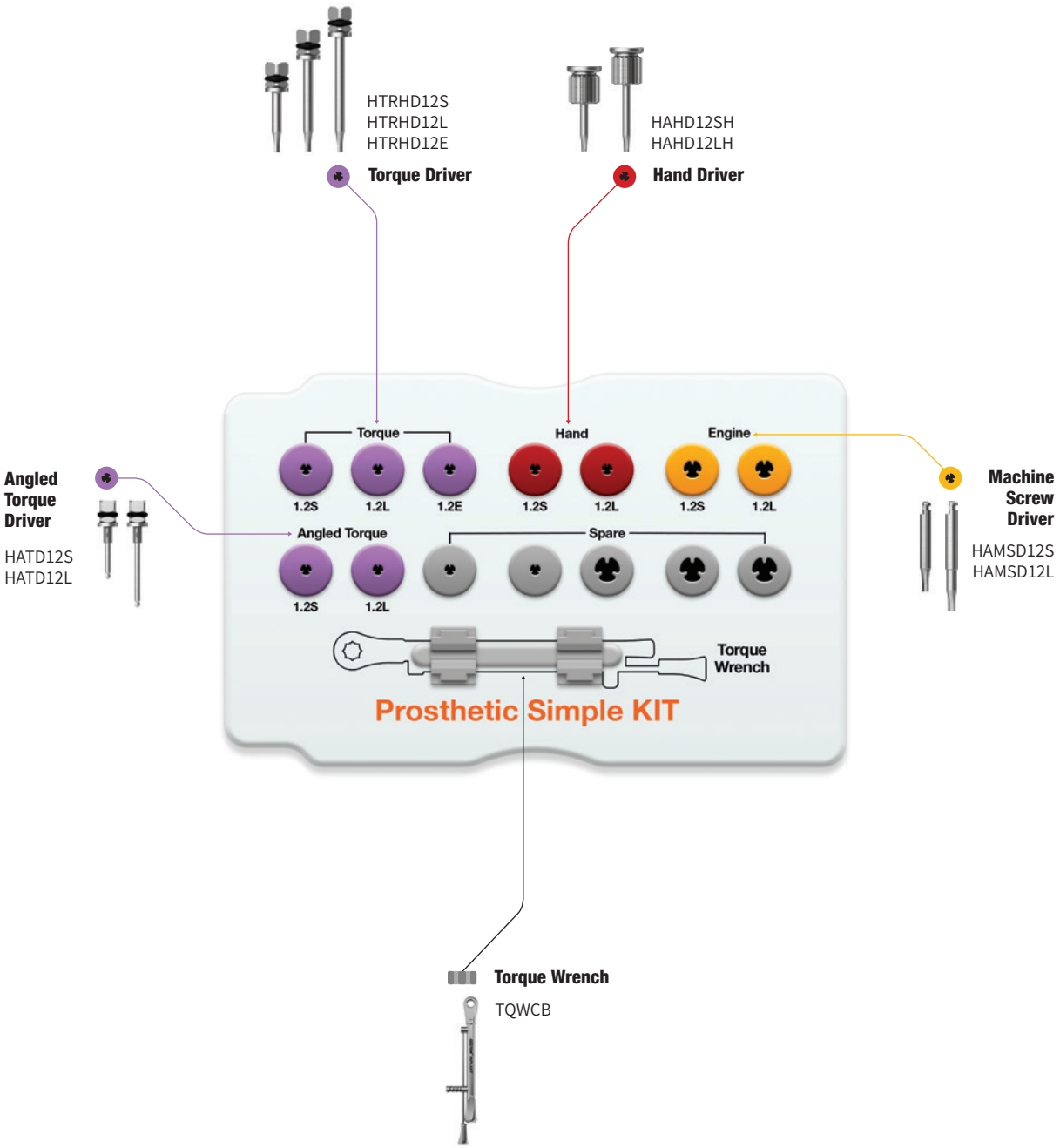
Bone Quality	Ø2.2 Drill	Ø2.0/3.0 Pilot Drill	Ø3.0 Drill	Ø3.0/3.8 Pilot Drill	Ø3.8 Drill	Ø4.6 Drill	Ø5.2 Direct Drill	Ø6.0 Implant
D4	▶	▶			▶			Implant Placement
Soft	▶	▶	▶	▶	▶	▶	▶	

ø7.0mm

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

Recommended insertion torque ≤40Ncm

Prosthetic Simple Kit (HPSK)

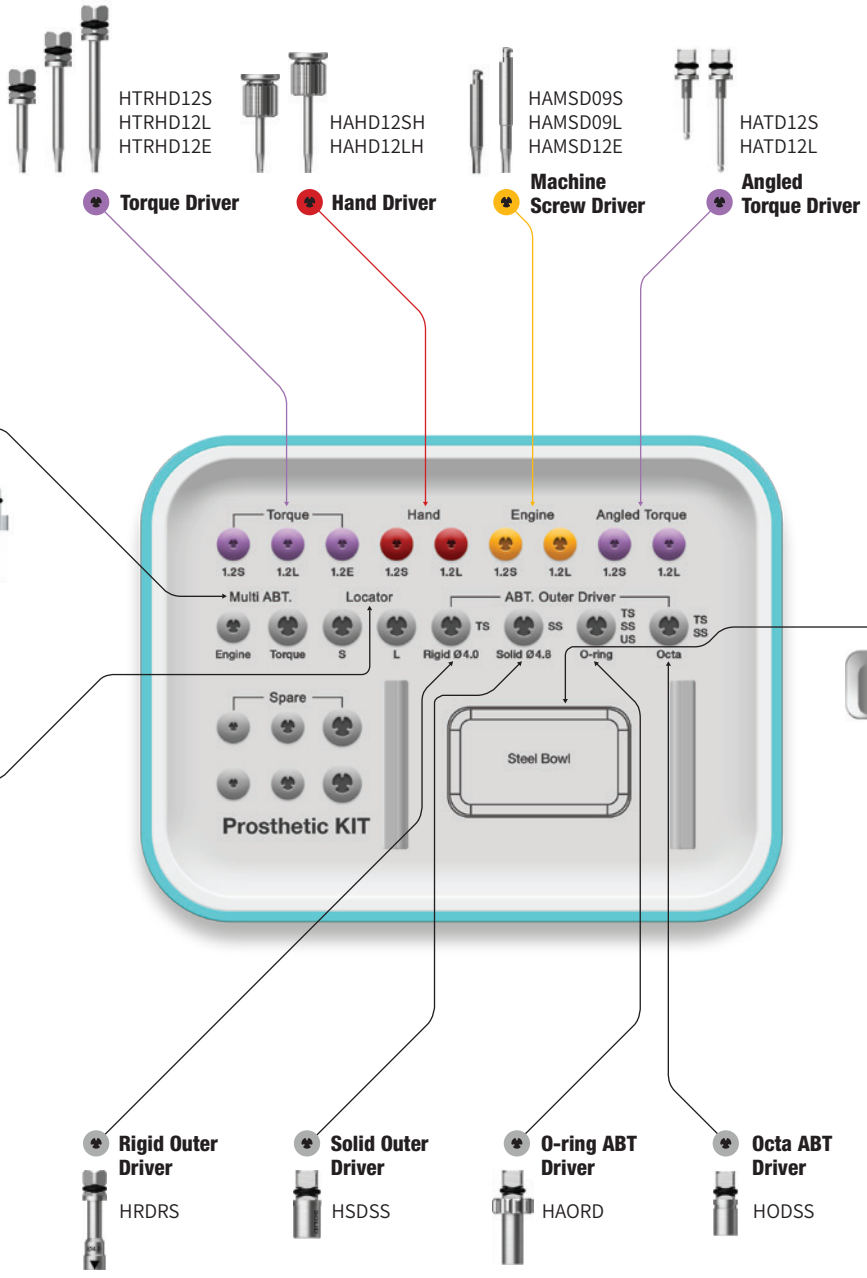


Unit of Measurement: mm

Prosthetic Kit (HPRSTKA)

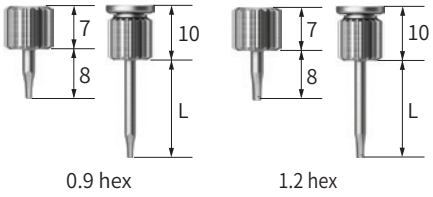
Top Panel Components

Torque Wrench
TQWCB

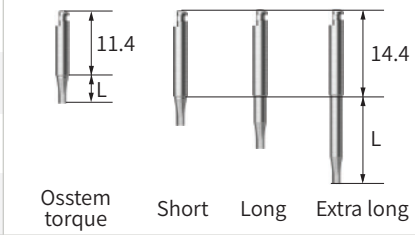


Prosthetic Kit Surgical Kit Instruments

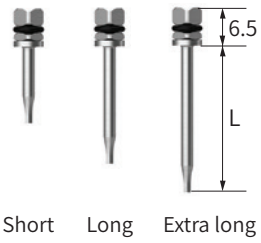
Hand Driver

Description	L	0.9 Hex	1.2 Hex	Image
• Manual driver • Tip holding function (except internal hex type) • Internal hex type length: 11mm	**Ex.Short (8)**	HAHD09MSH	HAHD12MSH	
	Short (13)	HAHD09SH	HAHD12SH	
	Middle (15)	-	HAHD12MH	
	Long (18)	HAHD09LH	HAHD12LH	
	Ex.Long (25)	-	HAHD12EH	

Machine Screw Driver

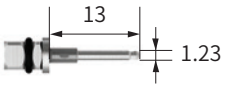
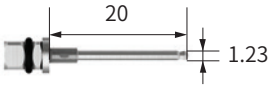
Description	L	0.9 Hex	1.2 Hex	Image
• 1.2 hex driver for engine handpiece • Tip holding function (except in internal hex type) • Internal hex type length: 8mm	**Osstem Torque (5)**	-	-	
	Short (5.6)	HAMSD09S	HAMSD12S	
	Long (11.6)	HAMSD09L	HAMSD12L	
	Ex.Long (17.6)	-	HAMSD12E	
	Application **Driver Applied Products** (common for hand, machine screw and torque driver)	Cover screw (US mini)	Healing abutment, UCLA, Cemented abutment screw, Mount screw	

Torque Driver

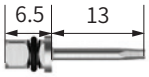
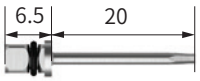
Description	L	0.5 Slot	0.9 Hex	1.2 Hex	Image
• Driver for torque wrench • Tip holding function • May bend or break if excessive torque is applied • Damage is possible even at low torque if not fully engaged • Apply vertical pressure when applying torque driver (Do not tilt) • If the tip is bent or stripped, replace immediately	**Ex.Short (8)**	-	-	HTRHD12MS	
	Short (13)	HTRSD05S	HTRHD09S	HTRHD12S	
	Middle (15)	-	-	HTRHD12M	
	Long (20)	HTRSD05L	HTRHD09L	HTRHD12L	
	Ex.Long (25)	HTRSD05E	-	HTRHD12SE	

Unit of Measurement: **mm**

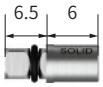
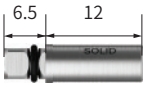
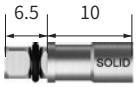
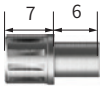
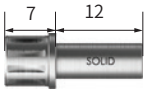
Angled Torque Driver

Description	L	1.2 Hex	1.2 Hex (Set)	Image
• Driver for torque wrench • No holding function • Recommended tightening torque: 30Ncm (excessive torque causes fracture) • Do not remove tube to prevent fragmentation when broken • Recommended number of use: 10 times • Set: 3 per pack	**Short (13)**	HATD12S	HATD12S3S	
	Long (20)	HATD12L	HATD12L3S	

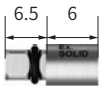
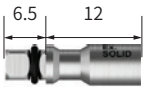
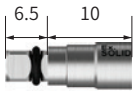
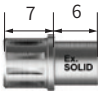
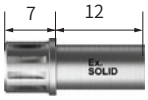
Repair Torque Driver

Description	L	1.2 Hex	Image
• Reduced diameter of shank compared to the Torque Driver (Ø2.1 → 1.6) • The diameter of the screw hole can be minimized during prosthetic repair or SCRP procedures	**Short (13)**	HTRHD12SR	
	Long (20)	HTRHD12LR	

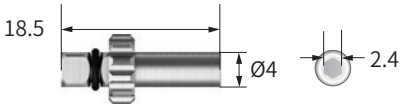
Solid Abutment Driver

		Regular		Wide	
Description	Type	Short (6)	Long (12)	Short (10)	Long (L)
• Driver specific for solid abutments • Connect to the solid abutment by matching up the groove with the triangular indicator • Recommended tightening torque: 30Ncm	**Square**	 HSDSS	 HSDSL	 HSD60S	-
	Round	 HSDRS	 HSDRL	-	-

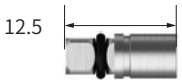
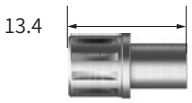
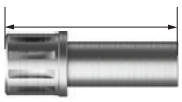
Excellent Solid Abutment Driver

		Regular		Wide	
Description	Type	Short (6)	Long (12)	Short (10)	Long (L)
• Driver for Excellent Solid Abutments • Connect to the solid abutment by matching up the groove with the triangular indicator • Recommended tightening torque: 30Ncm	**Square**	 HESDSS	 HESDSL	 HESD60S	-
	Round	 HESDRS	 HESDRL	-	-

Prosthetic Kit Surgical Kit Instruments

O-ring Abutment Driver		
Description	Item Code	Image
• Driver for Stud Abutment	HAORD	

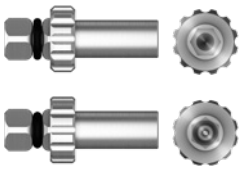
Rigid Outer Driver				
Description	D/Ø (Abutment)	Short (16.5)	Long (21.5)	Image
• Driver for Rigid Abutments • Recommended tightening torque: 30Ncm	**Ø4.0**	HRDMS	HORDML	
	Ø4.5	HRD45S	HRD45L	
	Ø5.0	HRDRS	HRDRL	
	Ø6.0	HRDWS	HRDWL	

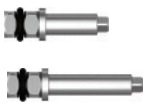
Octa Abutment Driver			
Description	Type	Short	Long
• Driver for Octa Abutments • Recommended tightening torque: 30Ncm	**Square**	 HODSS	 HDSL
	Round	 HDRS	 HDRL

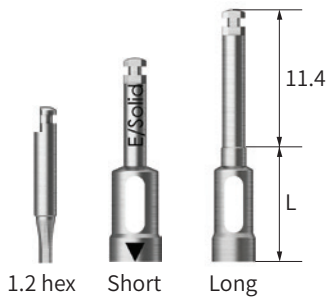
Multi Abutment Machine Driver		
Description	Item Code	Image
• Machine driver for Multi-Abutments	HMAMD	

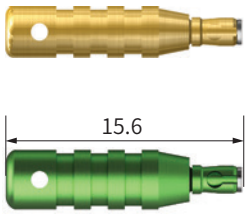
Abutment Holder		
Description	Item Code	Image
• Used to hold abutments and help deliver them to hard-to-reach sites of the oral cavity	HOABH	

Unit of Measurement: **mm**

Multi Abutment Outer Driver			
Description	Type	Item Code	Image
• Torque driver for Multi-Abutments	**Normal**	HMAODP	
	Rescue	HMAOD	

Locator Abutment Driver			
Description	Type	Item Code	Image
• Torque driver for Locator Abutments	**Short**	TWLDSK	
	Long	TWLDLK	

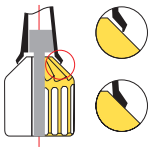
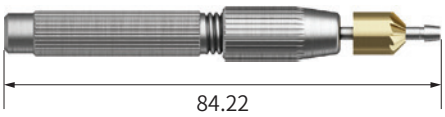
Torque Driver				
Description	Type	Short (10)	Long (15)	Image
• It may not be fastened or disconnected when connecting a normal handpiece • Driver should be used after matching the groove or section of the outer triangle and abutment • Solid, excellent solid driver is compatible only with Ø4.8 • 1.2 hex type L is 5	**1.2 Hex**	HTH12S	-	
	Rigid 4.0	HTR40S	HTR40L	
	Rigid 4.5	HTR45S	HTR45L	
	Rigid 5.0	HTR50S	HTR50L	
	Rigid 6.0	HTR60S	HTR60L	
	Solid	HTS48S	HTS48L	
	Excellent Solid	HTE48S	HTE48L	

Path Probe for ET			
Description	Connection	Item Code	Image
• Tool to check path and measure gingival height after ET implant placement *C = Connection	**Mini**	GIPAP-3016A	
	Regular	GIPAP-3516A	

Path Probe for EK			
Description	Connection	Item Code	Image
• Tool to check path and measure gingival height after EK implant placement *C = Connection	**Regular**	HKSPPR	

Prosthetic Kit Surgical Kit Instruments

Finishing Reamer Set

Description	Item Code	Image
• Tool used to remove the excess cast after plastic coping is set **Reamer user guide** 1. Select a reamer tip that is the same size as Abutment size and connect it to the burn-out cylinder 2. Firmly grasp the casting body and rotate the Reamer Bite with consistent force 3. Ream the body until it is clean and free of the excess casting 	HFRSC	

Reamer Bite

Description	Item Code	Image
• Tool used to remove the excess cast after plastic coping is set	HFRBC	

Reamer Tip for Rigid Abutment

Description	D/Ø	Item Code	Image
• Tool used to remove the excess cast after plastic coping is set	**Ø 4.0**	HGSRFRT400	
	Ø4.5	HGSRFRT450	
	Ø5.0	HGSRFRT500	
	Ø6.0	HGSRFRT600	

Reamer Tip for Solid, Excellent Solid Abutment

Description	Platform	Solid	Ex. Solid	Image
• Tool used to remove the excess cast after plastic coping is set • For both solid Ø6.0 and excellent solid Ø4.8 • P = Platform	**Regular** **Ø4.8**	HFRTS480	HFRTE480	
	Wide **Ø6.0**	HFRTS600	HFRTE600	

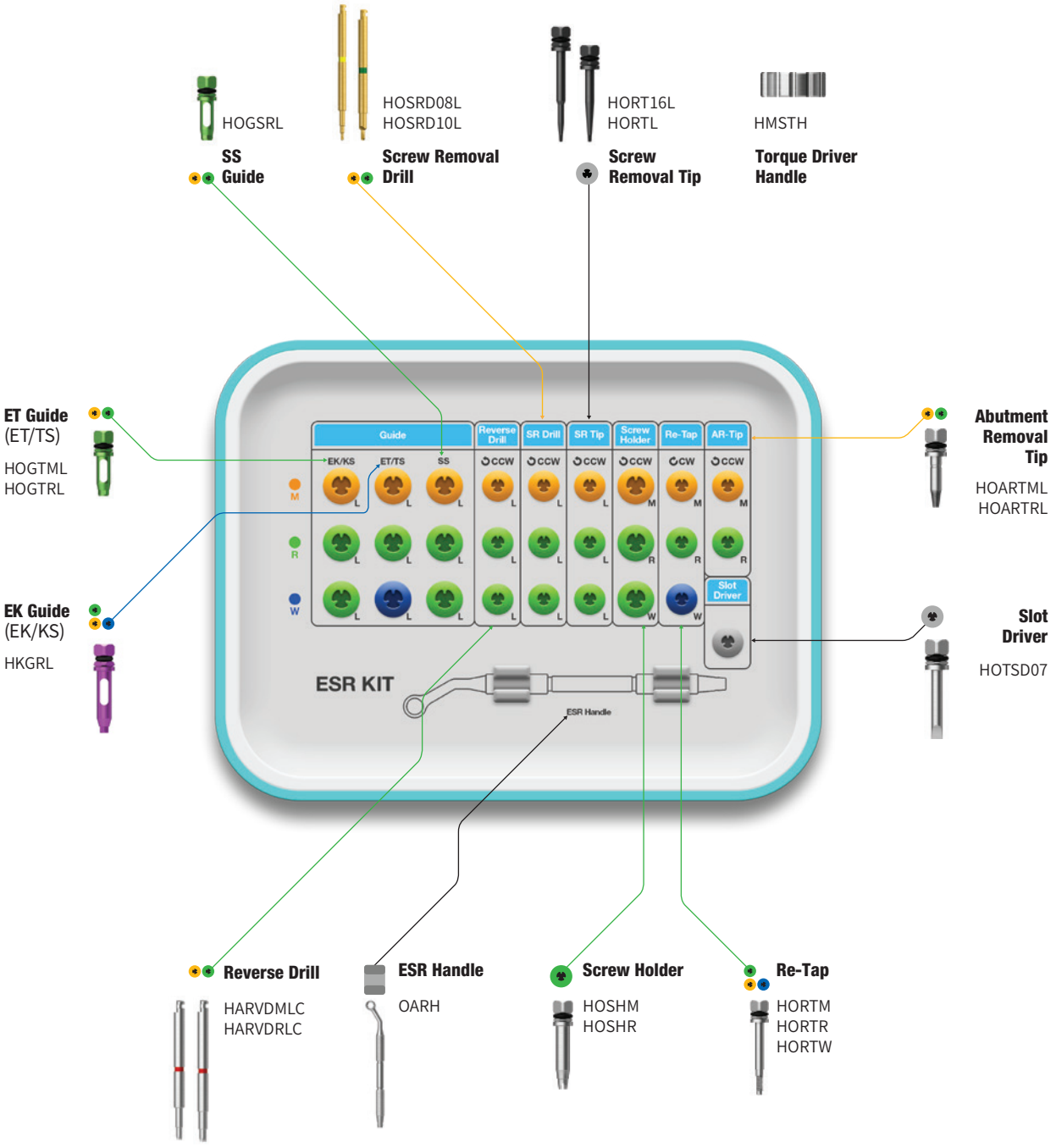
Unit of Measurement: **mm**

ESR Kit Easy Screw Removal Kit (HESRK)

※ ESR (EK) Kit: **HKESRK**

For

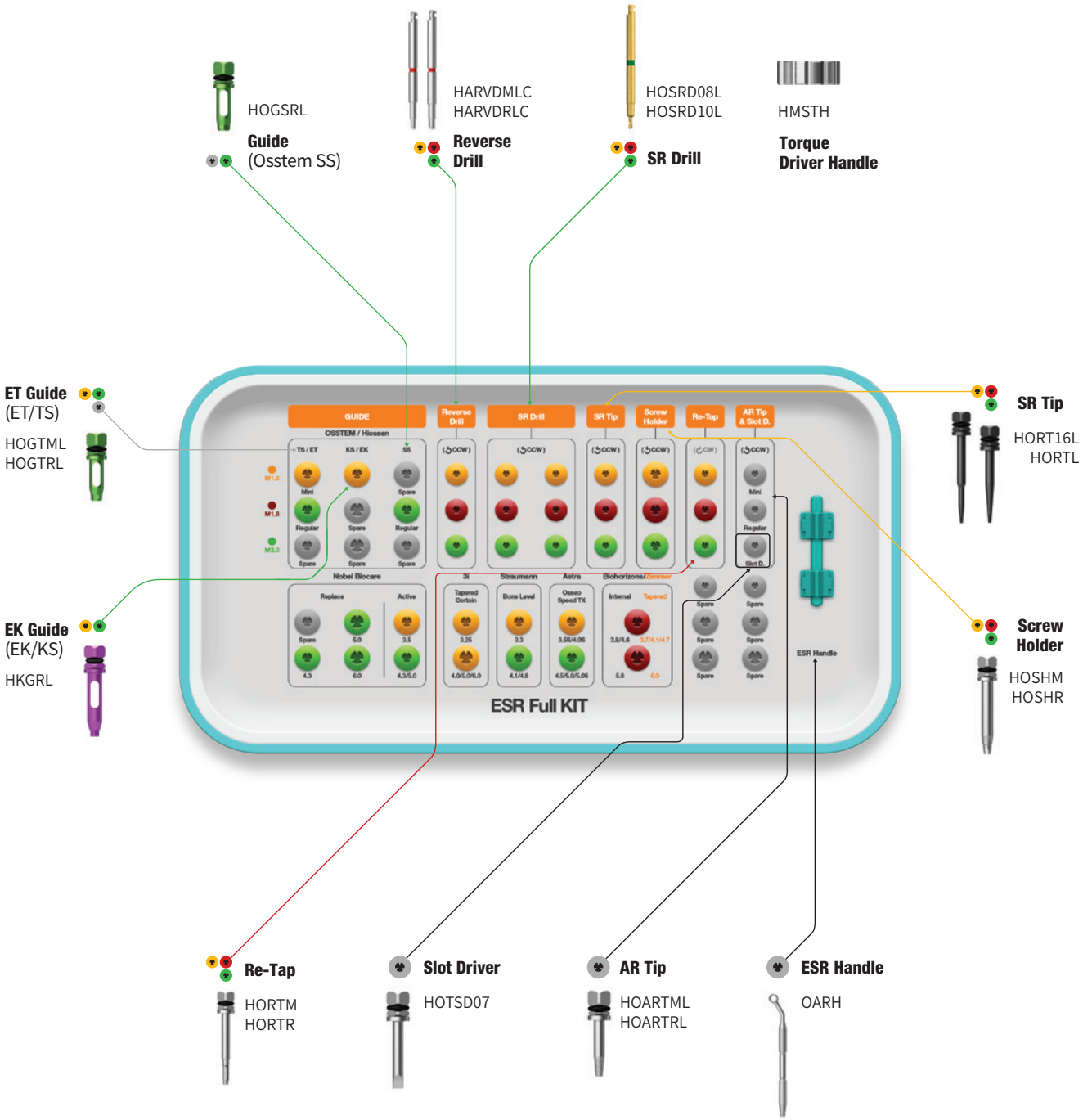
EKIII | ETIII/IV | SSIII | Ultra-Wide



Unit of Measurement: **mm**

ESR Full Kit Easy Screw Removal Full Kit (HESRFK_US)

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



ESR Full Kit Surgical Kit Instruments

Guide

Description

- Connected to the implant to center and prevent shaking of the reverse driver, SR drill and retap
- Choose spec of guide according to implant type and diameter (6 overseas companies' internal and submerged type products)
- Short or long used according to intermaxillary distance
- Used in combination with the ESR handle
- *C = Connection/the number of use: 10 times

Osstem

Type	Length	C / Mini	Regular	Wide	Image
ET(TS)	Short	HGTMS	HOGTRS	-	
	Long	HOGTML	HOGTRL	-	
EK(KS)	Short	-	HKGRS	-	
	Long	-	HKGRL	-	
SS	Short	-	HGSRS	HGSRS	
	Long	-	HOGSRL	HOGSRL	

Nobel Biocare

Type	Length	F / Ø3.5	Ø4.3	Ø5.0	Ø6.0	Image
Active	Short	HGNA01S	HGNA02S	HGNA02S	-	
	Long	HGNA01L	HGNA02L	HGNA02L	-	
Replace	Short	-	HGNR02S	HGNR03S	HGNR04S	
	Long	-	HGNR02L	HGNR03L	HGNR04L	
Type	Length	F / Ø3.3	Ø3.75	Ø4.0	Ø5.0	
MKIII	Short	HGUMS	HGURS	HGURS	HGUWS	
	Long	HHGUML	HOGURL	HOGURL	HOGUWL	

Straumann

Type	Length	F / NC (3.3)	RC (4.1)	RC (4.8)		Image
Bone Level	Short	HGSB01S	HGSB02S	HGSB02S		
	Long	HGSB01L	HGSB02L	HGSB02L		
Type	Length	F / RN (3.3 / 4.1 / 4.8)		WN (4.8)		
Roxolid SLActive	Short	HGSTRS		HGSTRS		
	Long	HGSTRL		HGSTRL		

Astra

Type	Length	F / Small (3.5 S / 4.0 S)	Large (4.5 / 5.0 / 5.0S)	Image
Osseo Speed TX	Short	HGAO01S	HGAO02S	
	Long	HGAO01L	HGAO02L	

Zimvie (Zimmer)

Type	Length	F / Green (3.7 / 4.1 / 4.7)	Green (6.0)	Image
Tapered	Short	HGZB01S	HGZB02S	
	Long	HGZB01L	HGZB02L	

Unit of Measurement: mm

BioHorizons

Type	Length	F / Yellow / Green	Blue	Image
Internal (Tapered Bone Level)	Short	HGZB01S	HGZB02S	
	Long	HGZB01L	HGZB02L	
Type	**Length**	**F / Ø3.5**	**Ø4.0 / 5.0 / 6.0**	
External	Short	HGUMS	HGURS	
	Long	HHGUML	HOGURL	

3i

Type	Length	F / 3.25	4.0 / 5.0 / 6.0	Image
Full Osseotite Tapered Certain	Short	HGIF01S	HGIF02S	
	Long	HGIF01L	HGIF02L	
Full Osseotite Tapered	Short	-	HGURS	
	Long	-	HOGURL	

Reverse Drill

Description	Type	Short	Long	Image
• Used to remove a fractured screw • To be used in conjunction with the guide • If the red marking of the reverse driver is visible on the guide, remove the fractured screw using a screw holder • Direction of rotation: Counterclockwise • Recommended number of usage: 10 times	M1.6	-	HARVDMLC	
	M1.8	HARVDRSC	HARVDRLC	
	M2.0	HARVDRSC	HARVDRLC	

Screw Removal Drill (SR Drill)

Description	Type	Short	Long	Image
• Used to create a hole in the fractured screw • Make sure to connect the guide, irrigate and suction to remove any debris • Available in long and short lengths for different intermaxillary distances • Drill until the colored marking on the drill is no longer visible through the guide • Recommended speed: 1,200~1,500 rpm (counterclockwise) • Recommended number of uses: 5 times • Connect the guide before use/Do not apply excessive vertical force/Do not clean with hydrogen peroxide	M1.6	HSRD08S	HOSRD08L	
	M1.8	HSRD09S	HSRD09L	
	M2.0	HSRD10S	HOSRD10L	

Torque Driver Handle

Description	Item Code	Image
• Manual handle for SR Tip, AR Tip, screw holder	HMSTH	

ESR Full Kit Surgical Kit Instruments

Reverse Driver				
Description	F	Short	Long	Image
• Reverse Driver • Used to remove a fractured screw • To be used in conjunction with the guide • Insert until the red band is in the Guide and turn counterclockwise to remove the screw • Use manually/Rotate counterclockwise/ Number of usages: 10 times	Mini	-	HRVDML	
	Regular/ Wide	HRVDRS	HRVDRL	

Screw Removal Tip (SR Tip)				
Description	Type	Short	Long	Image
• Removes a fractured screw by engaging into the hole created by the Screw Removal Drill • Rotation direction: counterclockwise	M1.6	HRT16S	HORT16L	
	M1.8	HRT18S	HRT18L	
	M2.0	HRTS	HORTL	

Screw Holder			
Description	Type	Item Code	Image
• Grasps onto a protruding fractured screw to unscrew it • Color-coded for easy recognition • Rotation direction: counterclockwise	M1.6	HOSHM	
	M1.8	HSHR18	
	M2.0	HOSHR	

Re-Tap			
Description	Type	Item Code	Image
• Re-threads the internal connection of a implant • Connects to a torque wrench or ratchet wrench to re-thread by hand	M1.6	HORTM	
	M1.8	HRTR18	
	M2.0	HORTR	

ESR Handle		
Description	Item Code	Image
• Stabilizes the Guide to the implant	OARH	

Unit of Measurement: mm

Abutment Removal Tip (AR Tip)

Description	F	Short	Long	Ex. Long	Image
• Removes fractured or jammed abutments and mounts from the implant • Insert into fractured abutment hole, turn counterclockwise, and rock back and forth to loosen and remove with forceps • Mini: it can be used to remove a screw with a stripped hex - To remove the screw, engage the tip into the stripped hex and rotate counterclockwise	**Mini**	HARTMS	HOARTML	HARTMEL	
	Regular	HARTRS	HOARTRL	HARTREL	

Slot Driver

Description	Item Code	Image
• Used to unscrew a screw, healing abutment, cover screw, or abutment screw with a stripped hex after creating a slot with a Ø0.8 bur	HOTSD07	

Transfer Abutment Separate Tool

Description		Item Code	Image
• Remove jammed abutment of non-hex type transfer abutment • The tip is for mini platform abutments; the next step for regular platform • Remove the abutment screw, insert Separate Tool Body into the abutment, tighten clockwise with Driver, and remove the abutment. If there is difficulty separating the abutment, attach a ratchet wrench for extra torque	**Driver**	HTASD	
	Body	HTASB	
	Set	HTAST	

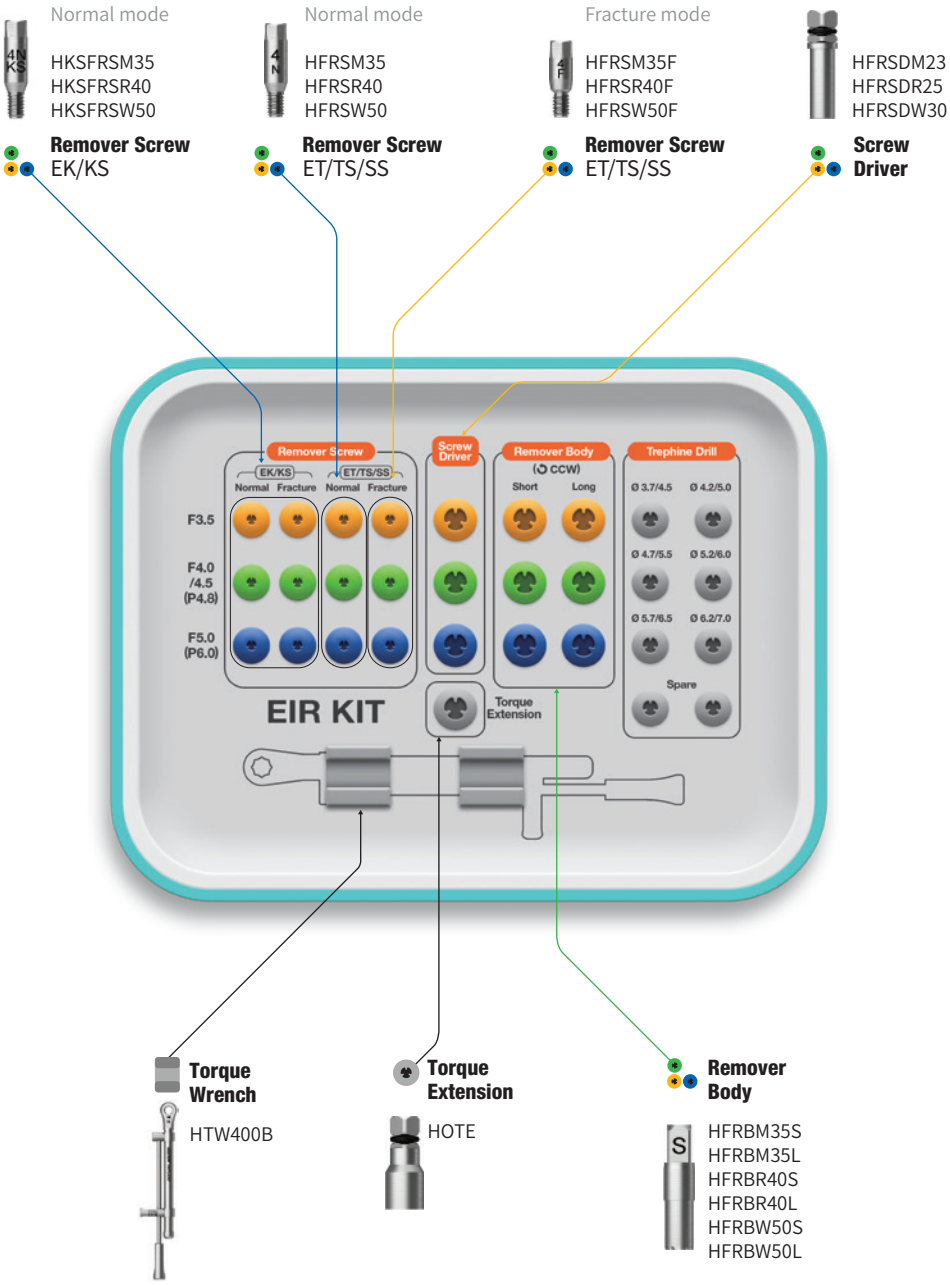
EIR Kit Easy Implant Removal Kit (HKSFRK)

※ EIR (EK) Kit: **HKSFRK**

For EKIII ETIII/IV SSIII Ultra-Wide

Top panel components

Implant Wrench
HFRDFE



Unit of Measurement: **mm**

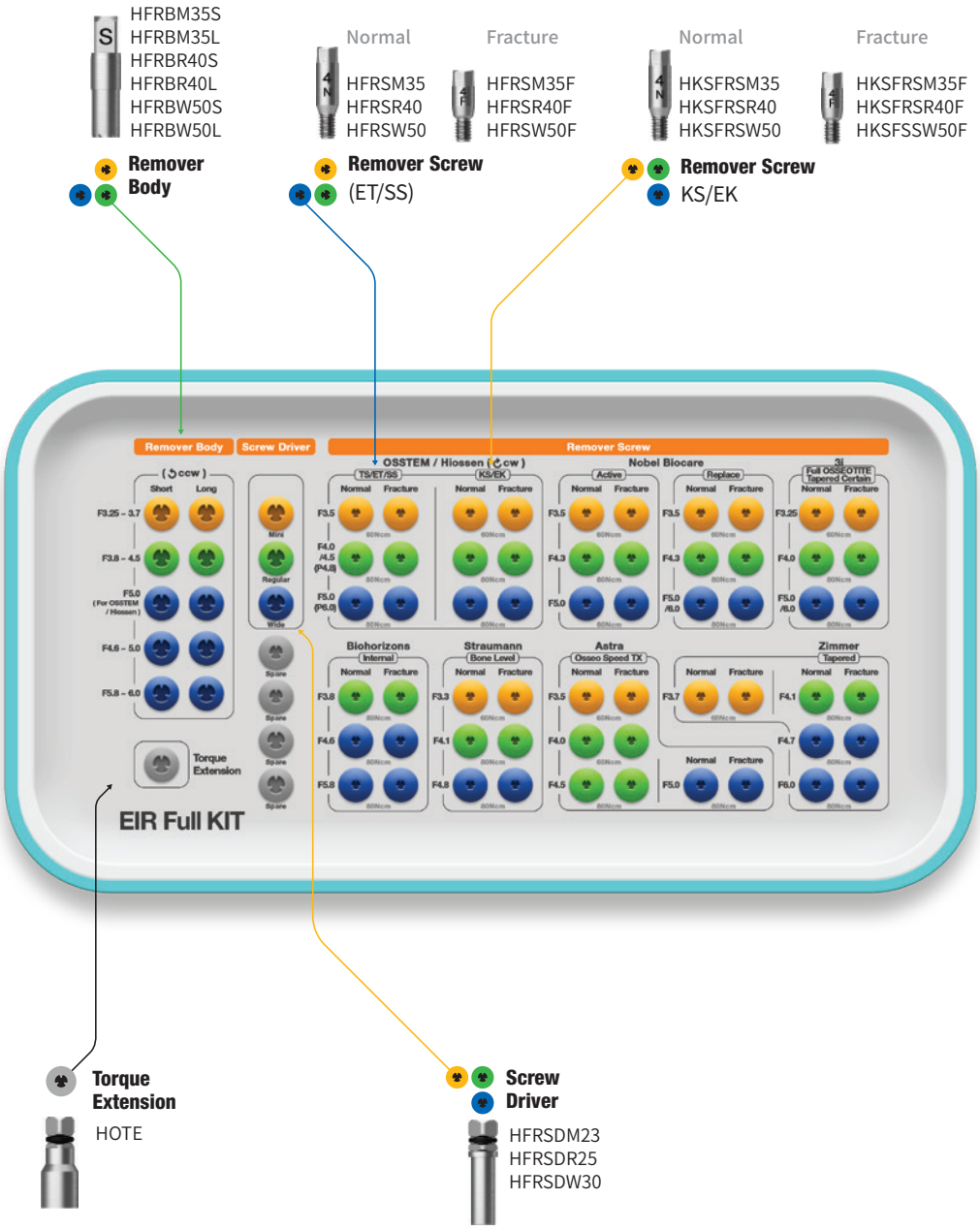
EIR Full Kit Easy Implant Removal Full Kit (HSFRFK_US)

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

Lower panel components

Implant Wrench
HFRDFE

Torque Wrench
HTW400B



EIR Full Kit Surgical Kit Instruments

Remover Screw	
Description	Image
• When securely fastened to the implant, it serves as a supporting structure for the Remover Body • Use the proper type that matches the diameter of the implant to be removed (ET/SS/US, normal/fracture) • Fracture type is specifically for removing a fractured implant • Recommended tightening torque: regular/wide 100Ncm, mini 80Ncm ※ Disposable; do not reuse	

Osstem

Type	Mode	Mini Ø3.5	Regular Ø4.0~4.5/P4.8	Wide Ø5.0/P6.0
ET/SS	Normal Fracture	HFRSM35 (3N) HFRSM35F (3F)	HFRSR40 (4N) HFRSR40F (4F)	HFRSW50 (5N) HFRSW50F (5F)
EK	Normal Fracture	HKSFRSM35 (KS3N) HKSFRSM35F (KS3F)	HKSFRSR40 (KS4N) HKSFRSR40F (KS4N)	HKSFRSW50 (KS5N) HKSFRSW50F (KS5N)

Nobel Biocare

Type	Mode	Mini Ø3.5	Regular Ø4.3	Wide Ø5.0/6.0
Active	Normal Fracture	HFRSMNA35 (N1) HFRSMNA35F (N2)	HFRSR40 (4N) HFRSR40F(4F)	HFRSW50 (5N) HFRSW50F (5F)
Replace	Normal Fracture	HFRSMNR35 (N3) HFRSMNR35F (N4)	HFRSR40 (4N) HFRSR40F (4F)	HFRSW50 (5N) HFRSW50F (5F)

Straumann

Type	Mode	Mini Ø3.3	Regular Ø4.1	Wide Ø4.8
Bone Level	Normal Fracture	HFRSMS33 (S1) HFRSMS33F (S4)	HFRSRS41 (S2) HFRSRS41F (S5)	HFRSWS48 (S3) HFRSWS48F (S6)

Astra

Type	Mode	Mini Ø3.5	Regular Ø4.0	Regular Ø4.5	Wide Ø5.0
Osseo Speed TX	Normal Fracture	HFRSMNA35 (N1) HFRSMNA35F (N2)	HFRSRA40 (A1) HFRSRA40F (A2)	HFRSR40 (4N) HFRSR40F (4F)	HFRSW50 (5N) HFRSW50F (5F)

3i

Type	Mode	Mini Ø3.25	Regular Ø4.0	Wide Ø5.0/6.0
Full Osseotite Tapered Certain	Normal Fracture	HFRSMS33 (S1) HFRSMS33F (S4)	HFRSRI40 (S2) HFRSRI40F (S5)	HFRSWI50 (S3) HFRSWI50F (S6)

Zimmer

Type	Mode	Mini Ø3.7	Regular Ø4.1	Wide Ø4.7	Ultra-Wide Ø6.0
Tapered	Normal Fracture	HFRSMZ37 (Z1) HFRSMZ37F (Z4)	HFRSRZ41 (Z2) HFRSRZ41F (Z6)	HFRSWZ47 (Z3) HFRSWZ47F (Z7)	HFRSWZ60 (Z4) HFRSWZ47F (Z7)

Biohorizons

Type	Mode	Mini Ø3.8	Regular Ø4.6	Wide Ø5.8
Internal	Normal Fracture	HFRSRZ41 (i1) HFRSRZ41F (i4)	HFRSWZ47 (i2) HFRSWB46F (i5)	HFRSWZ60 (i3) HFRSWB46F (i6)

Unit of Measurement: mm

Screw Driver

Description	Type	Item Code	Image
• Connects and fastens the Remover Screw to the implant • Recommended tightening torque: regular/wide 100Ncm, mini 80Ncm	Mini	HFRSDM23	
	Regular	HFRSDR25	
	Wide	HFRSDW30	

Remover Body

Description	Type	Short	Long	Image
• Connects to the Remover Screw to apply torque to remove the implant • Select the correct type that matches the diameter of the implant to be removed ※ Disposable; do not reuse	Mini	HFRBM35S	HFRBM35L	
	Regular	HFRBR40S	HFRBR40L	
	Wide	HFRBW50S	HFRBW50L	
		HFRBW57S	HFRBW57L	
	Ultra-Wide	HFRBUW60S	HFRBUW60L	

Torque Extension

Description	Item Code	Image
• Extends the length of the screw driver and remover body (by 10mm)	HOTE	

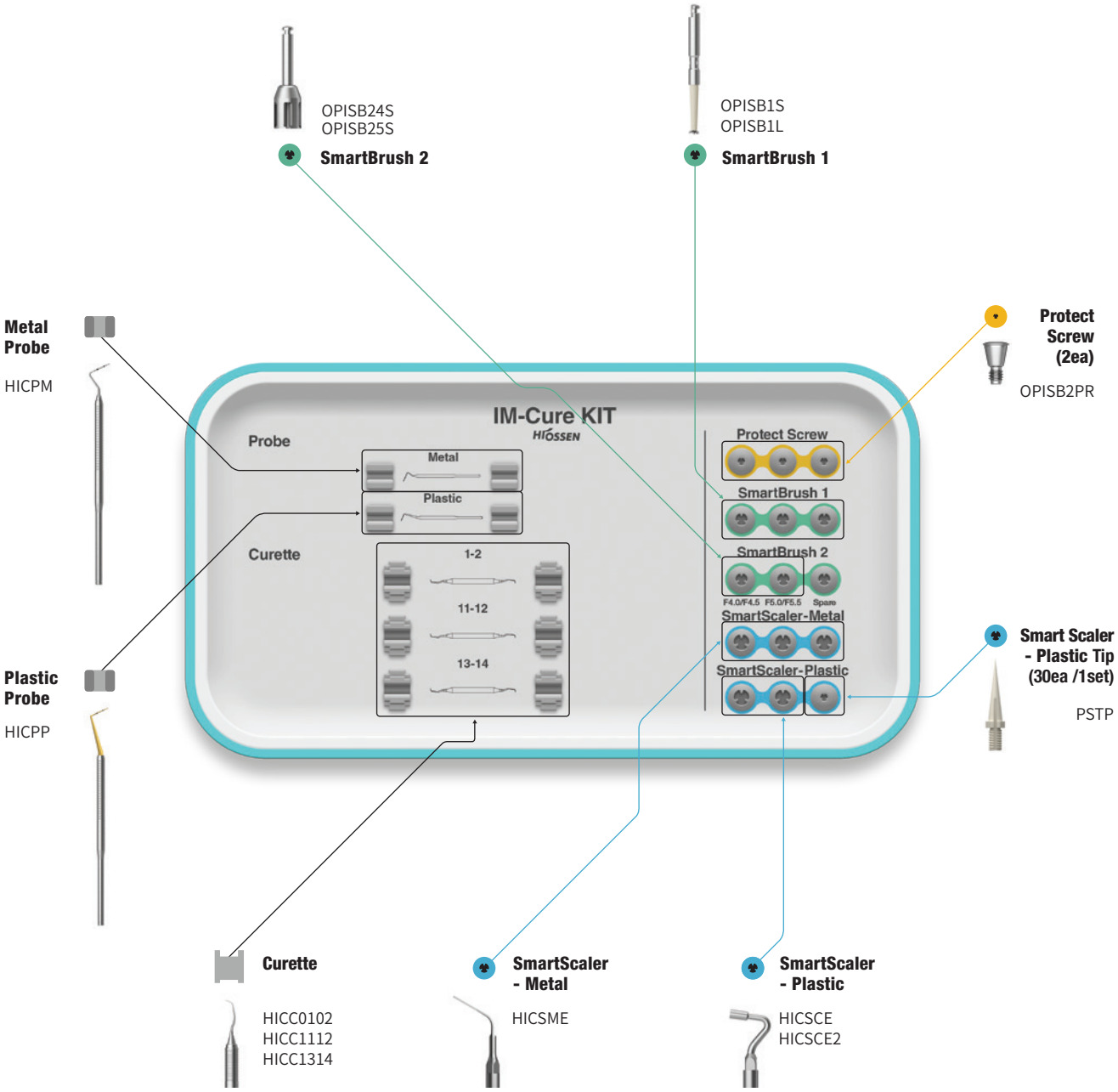
Torque Wrench

Description	Item Code	Image
• Tightens Screw Driver and removes the implant using the Remover Body • Applies up to 400Ncm of torque (markers at 80/100/200/300/400Ncm) • Torque by pulling the bar back until it reaches the desired torque value marking • Clean and sterilize for storage	HTW400B	

Implant Wrench

Description	Item Code	Image
• Wrench used to separate the implant implant from the Remover Body	HFRDFE	

IM-Cure Kit (HICK)



Unit of Measurement: mm

IM-Cure Kit Surgical Kit Instruments

Metal Probe

Description	Item Code	Image
• Used to diagnose periodontal disease • Measures pocket depth/size • Marking lines of 1mm increments	HICPM	

Plastic Probe

Description	Item Code	Image
• Used to diagnose periodontal disease • Measures pocket depth/size • Marking lines of 1mm increments • Plastic material prevents scratches on implant • Flexible probe makes it ideal for curved shape of alveolar bone • Autoclavable	HICPP	

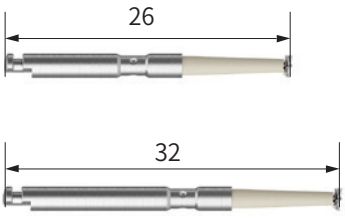
Curette

Description	Type	Item Code	Image
• Tool to remove granulation tissue firmly attached to a specific area • Gracey curette • 01-02: used for removal of anterior tissue • 11-12: used for removal of ganglion tissue • 13-14: used to remove the tissue from the distal part of posterior teeth	**01-02**	HICC0102	
	11-12	HICC1112	
	13-14	HICC1314	

Protect Screw

Description	Type	Item Code	Image
• Protect the implant's internal connection when using the SmartBrush 1 & 2 • Torque Using a 1.2 hex driver, tighten to about 5Ncm	**Mini**	OPISB2PM	
	Regular	OPISB2PR	

SmartBrush 1

Description	Short	Long	Image
• Bristle designed for effective debridement of the implant surface • After removing the patient's prosthesis and abutment, connect the protect screw before using • Recommended speed: 1,200~1,500rpm • Recommended use time: approximately 1 minute per screw thread (not recommended over 4 minutes) • Must use irrigation and suction during polishing ※ Disposable. Do not reuse	OPISB1S	OPISB1L	

IM-Cure Kit Surgical Kit Instruments

SmartBrush 2

Description	D/Ø	Short	Long	Image
• Debride implant • After removing the patient's prosthesis and abutment, connect the protect screw before using • Must use irrigation and suction during polishing • Recommended speed: 1,200~1,500rpm • Recommended use time: 1~2 minutes • Excessive use longer than 3 minutes may cause the product to break or bend	**F3.0/F3.5**	OPISB23S	OPISB23L	
	F4.0/F4.5	OPISB24S	OPISB24L	
	F5.0/F5.5	OPISB25S	OPISB25L	
	F6.0	OPISB26S	OPISB26L	
	F7.0	OPISB27S	OPISB27L	

SmartScaler - Metal

Description	Brand	Item Code	Image
• Used to remove substances such as tartar by connecting it to an ultrasonic scaler • Secondary use after using SmartBrush 1 or SmartBrush 2 • Easy to bend tip for easy access • EMS, KaVo, SATELEC specifications	**EMS**	HICSME	 Bendable
	KaVo	HICSMK	
	SATELEC	HICSMS	

SmartScaler - Plastic

Description	Brand	125°	100°	Image
• Used in combination with SmartScaler plastic tip • Do not use for removal of debris on the implant surface • EMS, KaVo, SATELEC specifications • A = Angle	**EMS**	HICSCE	HICSCE2	
	KaVo	HICSCK	HICSCK2	
	SATELEC	HICSCS	HICSCS2	

SmartScaler Plastic Tip

Description	Item Code	Image
• Used to remove substances from abutment or crown by attaching the SmartScaler ※ Do not use to implant surface • Packing unit: 30 per set	PSTP	

Unit of Measurement: **mm**

CAS Kit (HCRSNK)

For EKIII ETIII/IV SSII/III Ultra-Wide

Top panel components

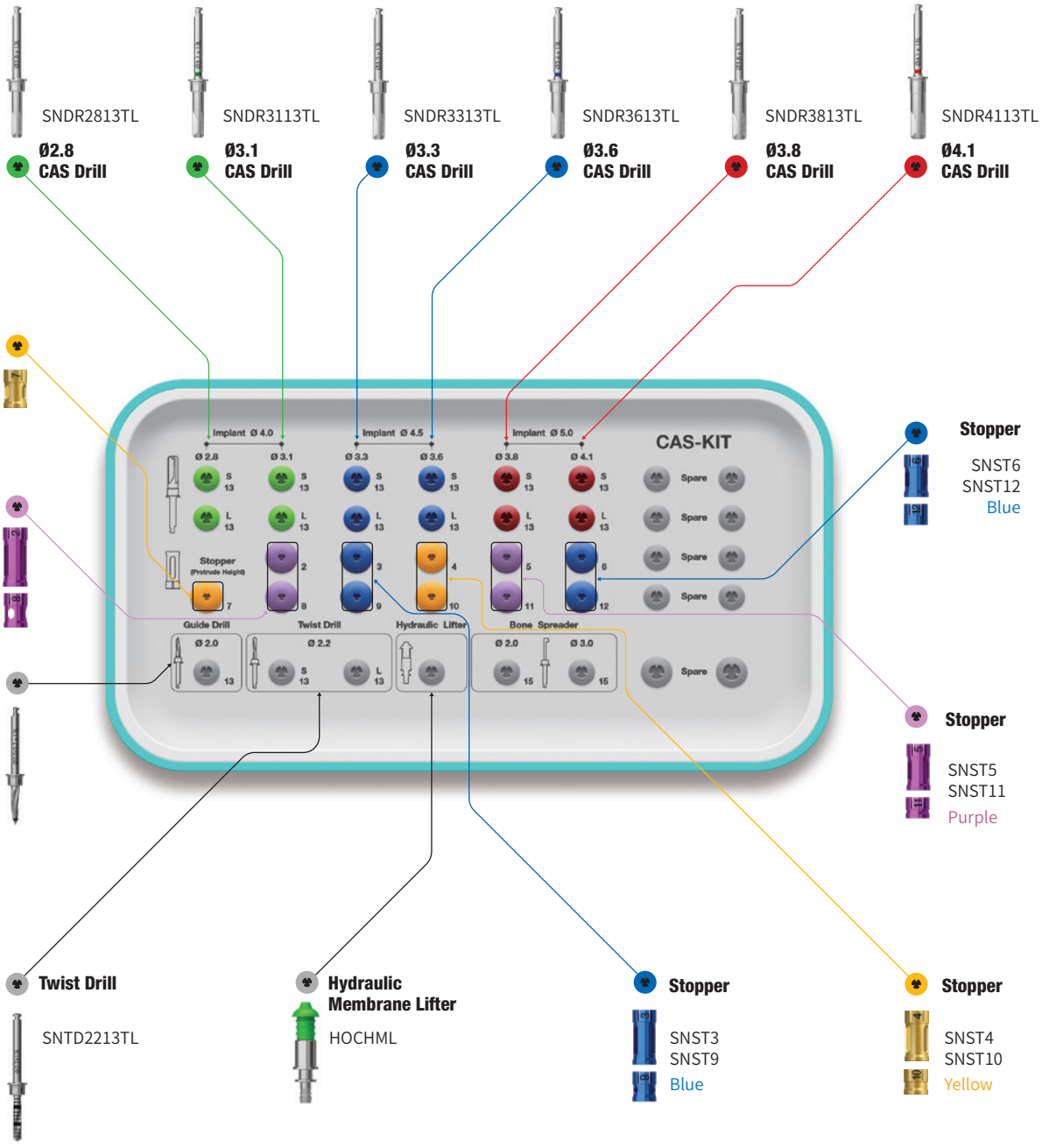
Hydraulic Membrane Lifter Tube
SNMT

Lower panel components

Bone Carrier Head
SNBCH30

Bone Carrier
SNBCS35

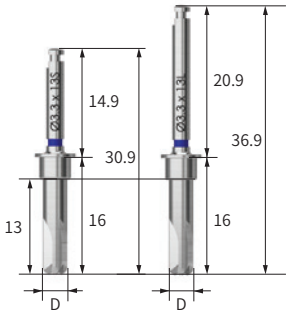
Bone Condenser
SNBC1114



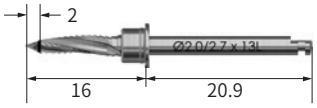
Unit of Measurement: mm

CAS Kit Surgical Kit Instruments

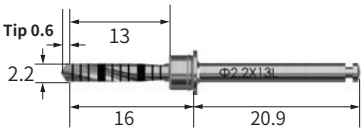
CAS Drill

Description	D/Ø	Short	Long	Image
• Specialized drill designed to penetrate the sinus floor without damaging the Schneiderian membrane by forming a conical bone lid • Four blade drill design provides superior bone removing capability from low to high speeds, and can collect autogenous bone at low speeds • Safely advance to the floor of the sinus using stoppers (1mm increments) • Final drill diameter is based on bone density, regardless of the implant type (straight or tapered) • Recommended speed: 400~800rpm (For beginner: 400rpm)	**Ø2.8**	SNDR2813TS	SNDR2813TL	
	Ø3.1	SNDR3113TS	SNDR3113TL	
	Ø3.3	SNDR3313TS	SNDR3313TL	
	Ø3.6	SNDR3613TS	SNDR3613TL	
	Ø3.8	SNDR3813TS	SNDR3813TL	
	Ø4.1	SNDR4113TS	SNDR4113TL	

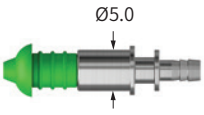
Guide Drill

Description	D/Ø	Item Code	Image
• Drill to mark the implant placement site • Side cutting blades can be used to modify the side walls of the extraction socket • Line marking 2mm from the apex of drill	**Ø2.0/2.7**	SNGD2027TL	

Ø2.2 Twist Drill

Description	D/Ø	Item Code	Image
• Recommended to under-drill by1mm below the floor of the sinus • Use with stoppers for safe and controlled drilling • Apex tip measures an additional 0.6mm	**Ø2.2**	SNTD2213TL	

Hydraulic Membrane Lifter Set

Description	D/Ø	Item Code	Image
• Hydraulic pressure is used to separate and lift the sinus membrane • Securely fits Ø2.8~Ø4.1 CAS drilled osteotomies	**Ø2.6/6.0**	HOCHML	

Stopper

- Laser mark numbers indicates drilling depth
- Color-coded by length
- Recommended number of usage: 50 times

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

CAS Kit Surgical Kit Instruments

Bone Carrier

Description	Item Code	Image
• Handle for the bone carrier head • Connects the bone carrier head and tighten at the opposite end • Connects both heads (SNBCH30 or SNBCH35)	SNBCS35	

Bone Carrier Head

Description	D/Ø	Item Code	Image
• Cone shaped with an extended tip that reaches the sinus cavity and prevents bone material from spilling out • SNBCH30 for Ø3.1/3.3 CAS drilled osteotomy • SNBCH35 for Ø3.6/3.8/4.1 CAS drilled osteotomy • Fill the reservoir (up to the marker) with bone material in small quantities using the bone condenser. Repeat the process as necessary	**Ø3.1**	SNBCH30	
	Ø3.6	SNBCH35	

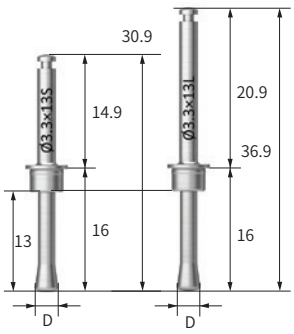
Bone Condenser

Description	Item Code	Image
• Safely pushes bone material through the bone carrier into the sinus cavity • SNBCH30: use Ø1.1/SNBCH35: use Ø1.4	SNBC1114	

Hydraulic Membrane Lifter Tube

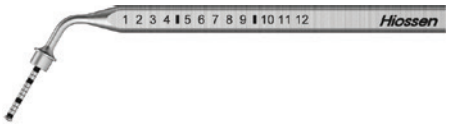
Description	Item Code	Image
• Tubing to connect the hydraulic membrane lifter to the saline filled syringe	SNMT	

Membrane Lifter

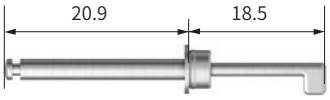
Description	D/Ø	Short	Long	Image
• Round shape with no cutting edges for safe membrane lifting • Select Membrane Lifter diameter according to the CAS drill diameter used (head diameter: CAS drill diameter -0.2mm) • Use CAS stoppers to control length • Recommended speed: 30~50rpm (Recommended speed for beginer: 30rpm) • Be sure to spray water when using	**Ø2.6**	SNML2813TS	SNDR2813TL	
	Ø2.9	SNML3113TS	SNDR3113TL	
	Ø3.1	SNML3313TS	SNDR3313TL	
	Ø3.4	SNML3613TS	SNDR3613TL	
	Ø3.6	SNML3813TS	SNDR3813TL	
	Ø3.9	SNML4113TS	SNDR4113TL	

Unit of Measurement: **mm**

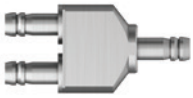
Depth Gauge

Description	Item Code	Image
• Checks for access into the sinus cavity and measures the thickness of residual bone	SNDG	

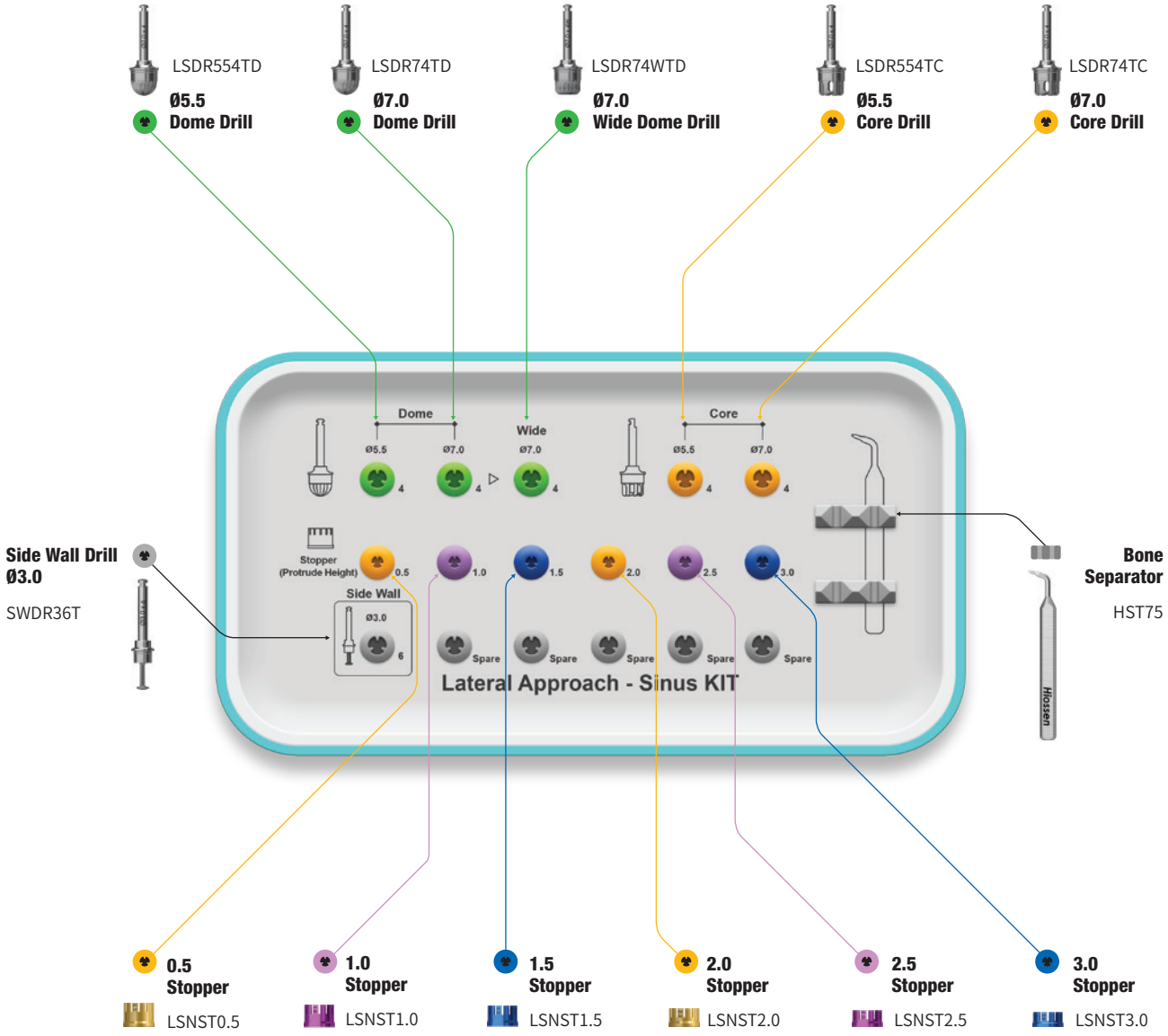
Bone Spreader

Description	D/Ø	Item Code	Image
• Spreads bone graft material in the sinus cavity • Used with CAS stoppers • Recommended speed: 30rpm or less	**Ø2.0**	SNBS2015T	
	Ø3.0	SNBS3015T	

Y-Connector

Description	Item Code	Image
• Y-type connecting tool capable of simultaneous hydraulic pressure elevation in two osteotomies	SNYCT	

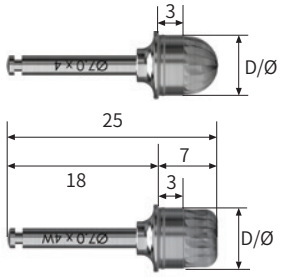
LAS Kit (HLRSNK)



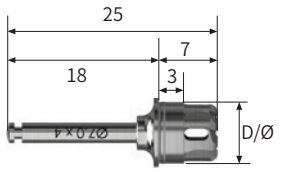
Unit of Measurement: **mm**

LAS Kit Surgical Kit Instruments

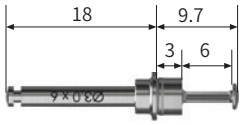
Dome Drill

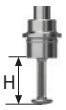
Description	D/Ø	Item Code	Image
• Dome Drill • Forms a bone window and collects autogenous bone simultaneously • Excellent penetration due to the combination of macro and micro cutting edges • Stopper system safely controls the penetration depth • Recommended speed: 1,200~1,500rpm • Excessive drilling may cause damage to the membrane	**Ø5.5**	LSDR554TD	
	Ø7.0	LSDR74TD	
	Wide Ø7.0	LSDR74WTD	

Core Drill

Description	D/Ø	Item Code	Image
• Creates a bone lid while forming the lateral window • Cutting edge design based on the CAS drill, enhancing safety • Recommended speed: 1,200~1,500rpm • Excessive drilling may cause damage to the membrane	**Ø5.5**	LSDR554TC	
	Ø7.0	LSDR74TC	

Side Wall Drill

Description	Item Code	Image
• Enlarges and trims the rough edges of the bone window • Cutting blades start 1 mm above the bottom of the drill • Recommended speed: 1,500rpm	SWDR36T	

Height of side cutting blade (mm)	**1.0**	**2.0**	**3.0**	**4.0**	**.05**	
CAS Kit stopper (mm)	**8.0**	**9.0**	**10**	**11**	**12**	
Side wall Drill + CAS Kit stopper • Stoppers safely control the drilling depth						

Bone Separator

Description	Item Code	Image
• Removes the bone lid inside the core drill	HST75	

Side Wall Drill

Description	Length	**0.5**	**1.0**	**1.5**	**2.0**	**2.5**	**3.0**
• Laser marked numbers indicate the drilling depth • Color-coded by length • Can be used up to 50 times before replacement							
	Item Code	LSNST0.5	LSNST1.0	LSNST1.5	LSNST2.0	LSNST2.5	LSNST2.0
	Color	Yellow	Purple	Blue	Yellow	Purple	Blue

ESSET Kit (HESEK)

For EKIII ETIII/IV SSII/III Ultra-Wide

Lower panel components

Torque Wrench
TQWCB

Depth Gauge
ODG

CERM50A
CERM50S
CERM70A

Crest Remover

2D1808LC01
2D1810LC01
2D1811LC01

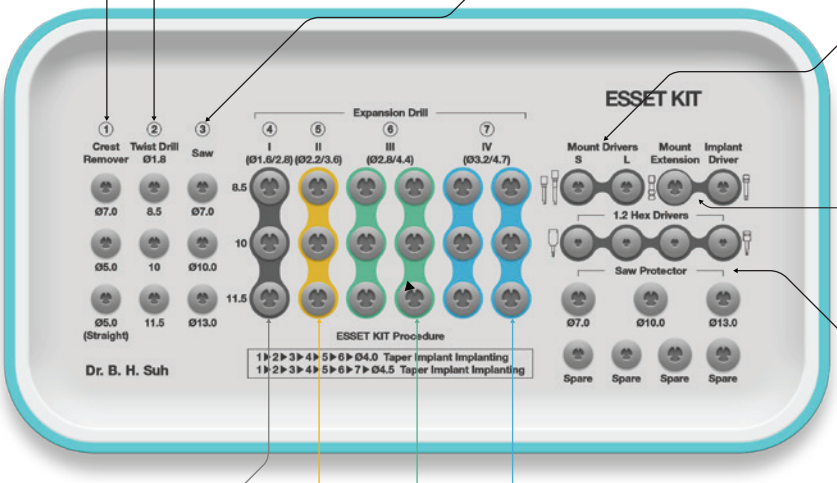
Twist Drill

HSAW070
HSAW100
HSAW130

Saw

AESMDS
AESMDL

EXP Mount Driver



Mount Extension

HASMEL

Saw Protector

HSP070
HSP100
HSP130

Expansion Drill

EXP162808
EXP162810
EXP162811

Expansion Drill

EXP223608
EXP223610
EXP223611

Expansion Drill (2ea)

EXP284408
EXP284410
EXP284411

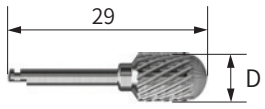
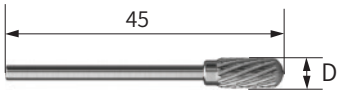
Expansion Drill (2ea)

EXP324708
EXP324710
EXP324711

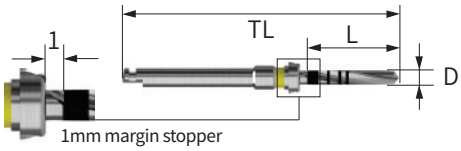
Unit of Measurement: mm

ESSET Kit Surgical Kit Instruments

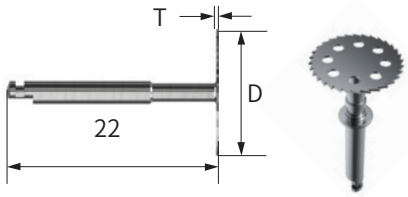
Crest Remover

Description	L	Ø5.0	Ø7.0	Image
• Grinds down narrow alveolar ridge, and creates an indentation for the implant's insertion site • Angled type recommended speed: 1,200~1,500rpm • Straight type recommended speed: 15,000~30,000rpm	29	CERM50A	CERM70A	
	45	CERM50S	-	

Twist Drill

Description	L	TL	Ø1.8	Image
• Marks the implant's insertion site • Controls depth with the built-in stopper • Recommended speed: 1,200 ~ 1,500 rpm	8.5	33	2D1808LC01	
	10	34.5	2D1810LC01	
	11	36	2D1811LC01	

Saw

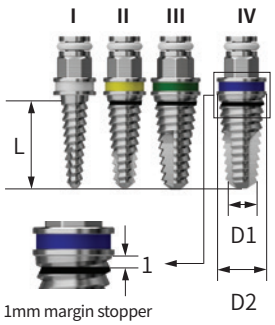
Description	T	TL	Item Code	Image
• For ridge modification and splitting • After vertical incision, move from mesial to distal • Recommended speed: 1,200 ~ 1,500 rpm • Recommended use: 10 times • *T = Thickness	0.3	Ø7.0	HSAW070	
		Ø10	HSAW100	
		Ø13	HSAW130	

Saw Protector

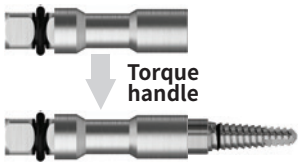
Description	D	Item Code	Image
• Semi-circular saw cover protects user when using saws • See through protector for maximum procedure visibility • 360° rotary saw cover for flexible operation • Material: Plastic ※ Single use only (Do not reuse)	Ø7.0	HSP070	
	Ø10	HSP100	
	Ø13	HSP130	

ESSET Kit Surgical Kit Instruments

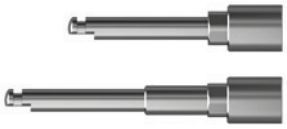
Expansion Drill

Description	Type	8.5	10	11.5	Image
• Gradually expands narrow alveolar ridge • Use the Expansion Drills in numerical order based on the diameter of the implant • F4.0: I → II → III/F4.5: I → II → III → IV • Recommended speed: 25~35rpm	**I Ø1.6/2.8**	EXP162808	EXP162810	EXP162811	
	II Ø2.2/3.6	EXP223608	EXP223610	EXP223611	
	III Ø2.8/4.4	EXP284408	EXP284410	EXP284411	
	IV Ø3.2/4.7	EXP324708	EXP324710	EXP324711	

Mount Extension

Description	Item Code	Image
• Used to apply manual torque when inserting/removing the Expansion Drills	HASMEL	

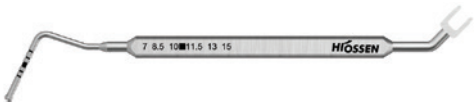
EXP Mount Driver

Description	Length	Item Code	Image
• Used to inserting/removing the Expansion Drills with a handpiece and engine	**Short (22.1)**	AESMDS	
	Long (28.6)	AESMDL	

Torque Wrench

Description	Item Code	Image
• Use to apply torque to the Expansion Drill	TQWCB	

Depth Gauge

Description	Item Code	Image
• Releases excessive torque when hand piece does not move due to being stuck in bone during expansion drill removal process. • Use with an open wrench to turn the hex of the Expansion drill • Prevents from over torquing	ODG	

Unit of Measurement: **mm**


HIOSSEN
IMPLANT

EM Kit (HMISLK)

Lower panel components

Depth Gauge
HMDTGG

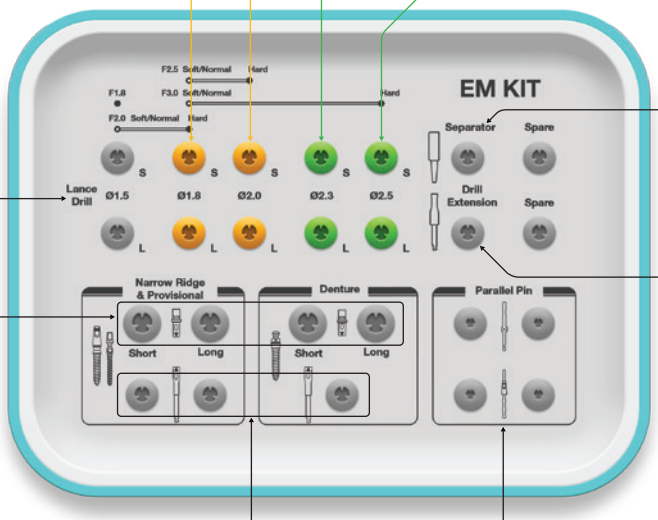
Ratchet Wrench
CITQW-1185A

HOSMSD18S
HOSMSD18L
Ø1.8 Twist Drill

HSMSD20S
HSMSD20L
Ø2.0 Twist Drill

HOSMSD23S
HOSMSD23L
Ø2.3 Twist Drill

HOSMSD25S
HOSMSD25L
Ø2.5 Twist Drill



Lance Drill
HOSLD15
HOMSLD15L

Torque Driver
HMSPTS
HMSPTL

Machine Driver
HMSPMS
HMSPML

Parallel Pin
HMSPP
HMSPPN

Driver Separator
HMSDS

Drill Extension
HDERC

Unit of Measurement: **mm**

EM Kit Surgical Kit Instruments

Drill for EM Implant

Description	Length	Ø1.5	Ø1.8	Ø2.0	Ø2.3	Ø2.5	Image
• Laser markings on drill match implant length specifications (8/10/11.5/13/15 mm) • In cortical bone, it is recommended to use the lance drill to drill to the final implant length • Long type has a stopper at 13mm	**Short (35)**	HOSLB15	-	-	-	-	
	Long (38)	HOMSLD15L	-	-	-	-	
	Short (33)	-	HOSMSD18S	HSMSD20S	HOSMSD23S	HOSMSD25S	
	Long (31)	-	HOSMSD18L	HSMSD20L	HOSMSD23L	HOSMSD25L	

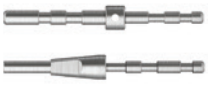
Driver for Narrow Ridge & Provisional Type

Description		Length	Ø3.4	Image
• Driver for EM (MS) implants: narrow ridge & provisional • The triangular marking is used in line with the implant	**Torque Driver**	**Short (16.5)**	HMSPTS	
		Long (21.5)	HMSPTL	
	Machine Driver	**Short (24.4)**	HMSPMS	
		Long (29.4)	HMSPML	

Driver for Denture Type

Description		Length	Ø3.8	Image
• Driver for EM (MS) Implant denture • The triangular marking should be aligned with the implant	**Torque Driver**	**Short (13.5)**	HMSDTS	
		Long (18.5)	HMSDTL	
	Machine Driver	**Long (21.4)**	HMSDMS	

Gauge for MS Implant

Description	Length	Item code	Image
• Depth gauge - Left: to check the drilled depth - Right: to bend the neck of the EM (MS) provisional type - MS narrow narrow ridge type cannot be bent • Parallel pin is used to confirm the path of the implant after drilling - MSPP: lower diameter Ø1.5/upper diameter Ø1.8 - MSPPN: lower diameter Ø1.5/upper shape is same as the abutment portion of the MS narrow ridge	**Depth Gauge**	HMDTGG	
	Parallel Pin	HMSPP HMSPPN	

Torque Driver Handle

Description	Image/Item code
• Used for initial insertion by hand after fastening to torque driver	
	HMSTH

Driver Separator

Description	Image/Item code
• If the MS implant is jammed in the Driver, the Driver Separator can be leveraged to separate the two	
	HMSDS

MS Removal Tool

Description	Image
• Easy removal of fractured EM Implant (Narrow Ridge) • The tool is used by rotating in the reverse direction after assembling to the universal handle • Options based on diameter of fractured implant • For Ø 2.0, use orthodontic screw removal tool (code: OSRT20E) ※ Disposable. Do not reuse	

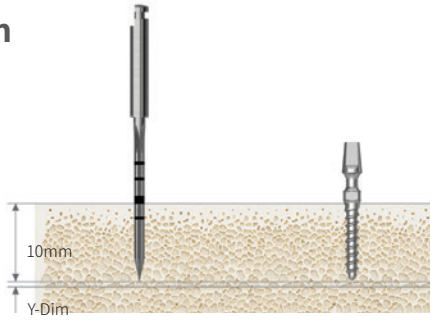
D/Ø	Ø2.5	Ø3.0
	HMRT25E	HMRT30E

Drilling Sequence **EM Drill**

Narrow Ridge | Denture | Provisional

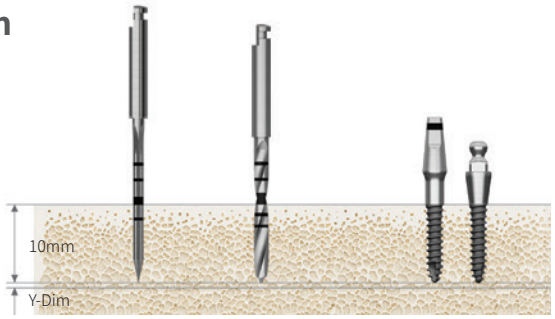
(Length: 10mm)

ø1.8mm



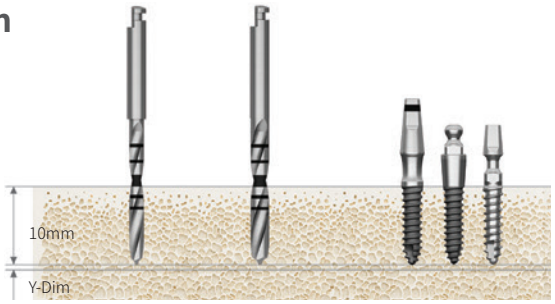
Bone Quality	Lance Drill	Ø1.8 Implant
Soft	▶	Implant Placement
Normal	▶	
Hard	▶	

ø2.0mm



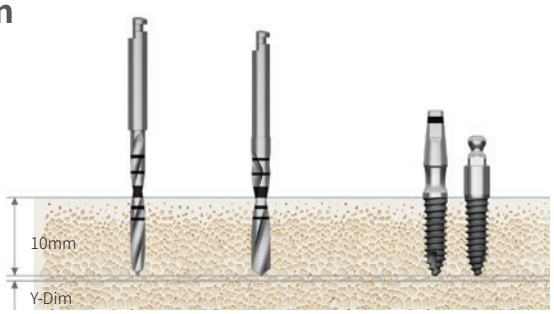
Bone Quality	Lance Drill	Drill (Ø1.8)	Ø2.0 Implant
Soft	▶		Implant Placement
Normal	▶		
Hard	▶	▶	

ø2.5mm



Bone Quality	Drill (Ø1.8)	Drill (Ø2.0)	Ø2.5 Implant
Soft	▶		Implant Placement
Normal	▶		
Hard		▶	

ø3.0mm



Bone Quality	Drill (Ø1.8)	Drill (Ø2.5)	Ø3.0 Implant
Soft	▶		Implant Placement
Normal	▶		
Hard		▶	

Surgical Instrument

Abutment Positioning Driver

Description	H + G/H	Length	Item Code	Image
• Used for assembling the abutment in the prosthetic process after placing an implant ※ For Transfer Abutment only • Function to help convenient and stable mounting and tightening of the abutment being pushed away by gingiva • Used according to the H and G/H lengths of the abutment to be removed as shown below	5.0, 6.0, 7.0, 8.0, 9.0	Short (≤9)	HAPDS	
	10, 11, 12, 13, 14	Long (≥10)	HAPDL	

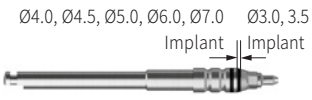
NoMount Torque Driver for ET

Description	C	Length	Item Code	Image
• Directly connects to an ET Implant for placement with a Torque Wrench • Ensure correct and complete seating before applying torque; loose connection may cause implant fracture • C= Connection	Mini	Short (19)	HGSNMT32S	
		Long (26.6)	HGSNMT32L	
		Ex. Long (33.6)	HGSNMT32E	
	Regular	Short (19)	HGSNMT35S	
		Long (26.6)	HGSNMT35L	
		Ex. Long (33.6)	HGSNMT35E	

NoMount Torque Driver for SS

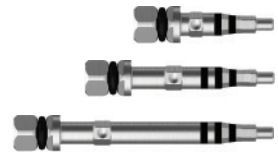
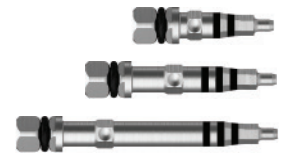
Description	C	Length	Item Code	Image
• Directly connects to a SS Implant for placement with a Torque Wrench • Ensure correct and complete seating before applying torque; loose connection may cause implant fracture • *C = Connection	Regular / Wide	Short (16.8)	HSSNMT39S	
		Long (26.8)	HSSNMT39L	

NoMount Driver for EK

Description	C	Length	Item Code	Image
• Ø3.5 implant is combined with the bottom of the lower marking • Ø4.0, Ø4.5, Ø5.0, Ø6.0 and Ø7.0 implants are combined with the upper part of the lower marking • The distance between the two laser marking is 0.5mm • C= Connection	Regular	Short (27.6)	HKSNMDCRS	
		Long (32.6)	HKSNMDCRL	
		Extra Long (37.6)	HKSNMDCRE	

Unit of Measurement: mm

Implant Driver for ET

Description	C	Length	Item Code	Image
• Connects directly to an ET implant for final adjustments to the implant's depth • *C = Connection	Mini	Short (17)	HGSMFDS	
		Long (24)	GSMFDL	
		Ex. Long (34)	HGSMFDE	
	Regular	Short (19)	HGSRFDS	
		Long (26.6)	GSRFDL	
		Ex. Long (33.6)	HGSRFDE	

Implant Driver for SS

Description	C	Length	Item Code	Image
• Connects directly to a SS implant for final adjustments to the implant depth • *C = Connection	Regular/ Wide	Short (14)	HSSRFDS	
	Regular/ Wide	Long (24)	SSRFDL	
	Regular/ Wide	Ex. Long (31)	HSSRFDE	

Implant Driver for EK

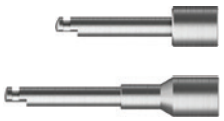
Description	C	Length	Item Code	Image
• Connects directly to an EK implant for final adjustments to the implant's depth • *C = Connection	Regular	Short	HKSFDS	
		Long	HKSFDL	

Torque Extension

Description	Item Code	Image
• Extends the length of an instrument by 10mm • Connects to the torque wrench	HOTE	

Surgical Instrument Kit

Simple Mount Driver

Description	Length	Item Code	Image
• Connects to mounted implants for placement • For use with a handpiece/implant motor	**Short (20.1)**	HASMDS	
	Long (26.5)	HASMDL	

Simple Mount Extension

Description	Length	Item Code	Image
• Extends the length of the simple mount driver and converts it for use with the Torque Wrench	**Short (14.5)**	HASMES	
	Long (20.5)	HASMEL	

Simple Open Wrench

Description	Item Code	Image
• Disengages the simple mount when bone quality is poor • Easy insertion into the mount with a neck angle of 30°	SPOW	

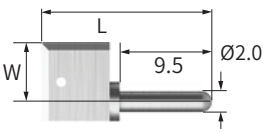
Removal Tool for Implant Mount

Description	Application	Item Code	Image
• Removes the mount if the mount becomes wedged in the implant • Used with Driver Handle or Torque Wrench • Removes the mount screw, insert the Removal Tool into the mount, and turn clockwise • App = Application	**Mini (ET,US)**	HERFM	
	Regular (ET,US) Wide (SS)	HHRFR	
	Wide (US)	HERFW	

Depth Gauge

Description	Item Code	Image
• Measures drilling depth (7~15mm)	ODG	

Positioning Guide

Description	W/L	Item Code	Image
• Help set the drilling interval for implant insertion • Insert after initial drilling	**2.5 / 21.5**	HAPG201	
	6.0 / 17.5	HAPG202	
	11 / 17.5	HAPG203	

Unit of Measurement: **mm**

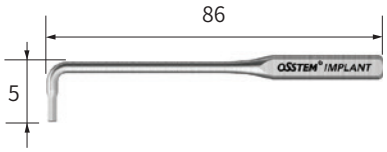
Tissue Height Gauge for ET

Description	Item Code	Image
• Connects to the ET implant to measure the height of the gingiva in relation to the implant	HGTSHG	

Ratchet Wrench

Description	Item Code	Image
• It prevents wrench from backdriving • Excessive torquing may cause damage to the bone or the inside of a implant	CITQW-1185A	

L-Wrench

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

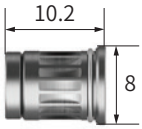
Torque Wrench - Bar Type

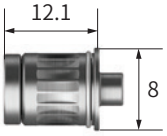
Description	Item Code	Image
• Adjusts the implant depth, and tightens abutments, screws, etc. • Pull the bar back until the desired torque value is reached	TQWCB	

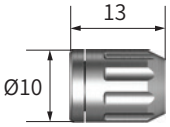
Torque Wrench - Spring Type

Description	Item Code	Image
• Applies a precise amount of torque (10/20/30Ncm) to the screw and abutment • The neck of the torque wrench will bend when the exact amount of torque has been delivered • Do not continue to torque after the neck has bent; excessive force may cause screw fracture etc.	HTW30	

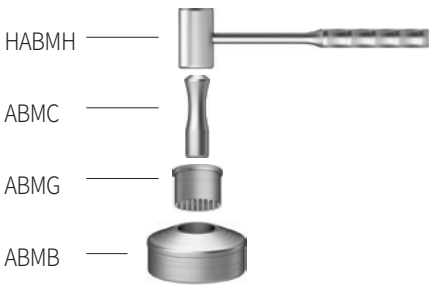
Surgical Instrument Kit

Torque Connector		
Description	Item Code	Image
• Tool used convert a square driver connection to a bi-directional connection for the torque wrench	HRC	

Machine Driver Connector		
Description	Item Code	Image
• Tool used convert a machine driver into a bi-directional connection for the torque wrench	HMDC	

Driver Handle		
Description	Item Code	Image
• Connects to the Torque Driver	HTIDHC	

Machine Driver Handle		
Description	Item Code	Image/Guide
• Tool used convert engine type surgical tools into a manual type	HMDH	

Bone Mill		
Description	Item Code	Image
• Grinds harvested autogenous bone	HABM	

Unit of Measurement: **mm**

Anterior Hand Driver for Implant		
Description	Item Code	Image
• Manually torque implants in the anterior area • Connect to a NoMount torque driver or a implant driver • Excessive torque may cause damage to the implant and/or driver	HAHDI	

Torque Handle		
Description	Item Code	Image
• Connectable to a contra-angle handpiece (Hand-Piece gear ratio to 1:1) • Used to connect healing abutments, cover screws, abutment screws, orthodontic screws, etc. (Note: after connecting, make sure that it is tightened with a torque wrench) • Excessive torque may cause damage to the screw and/or hand piece	HTQHD	

HIOSSEN
IMPLANT

Smiles that last a life time