SURGICAL KIT

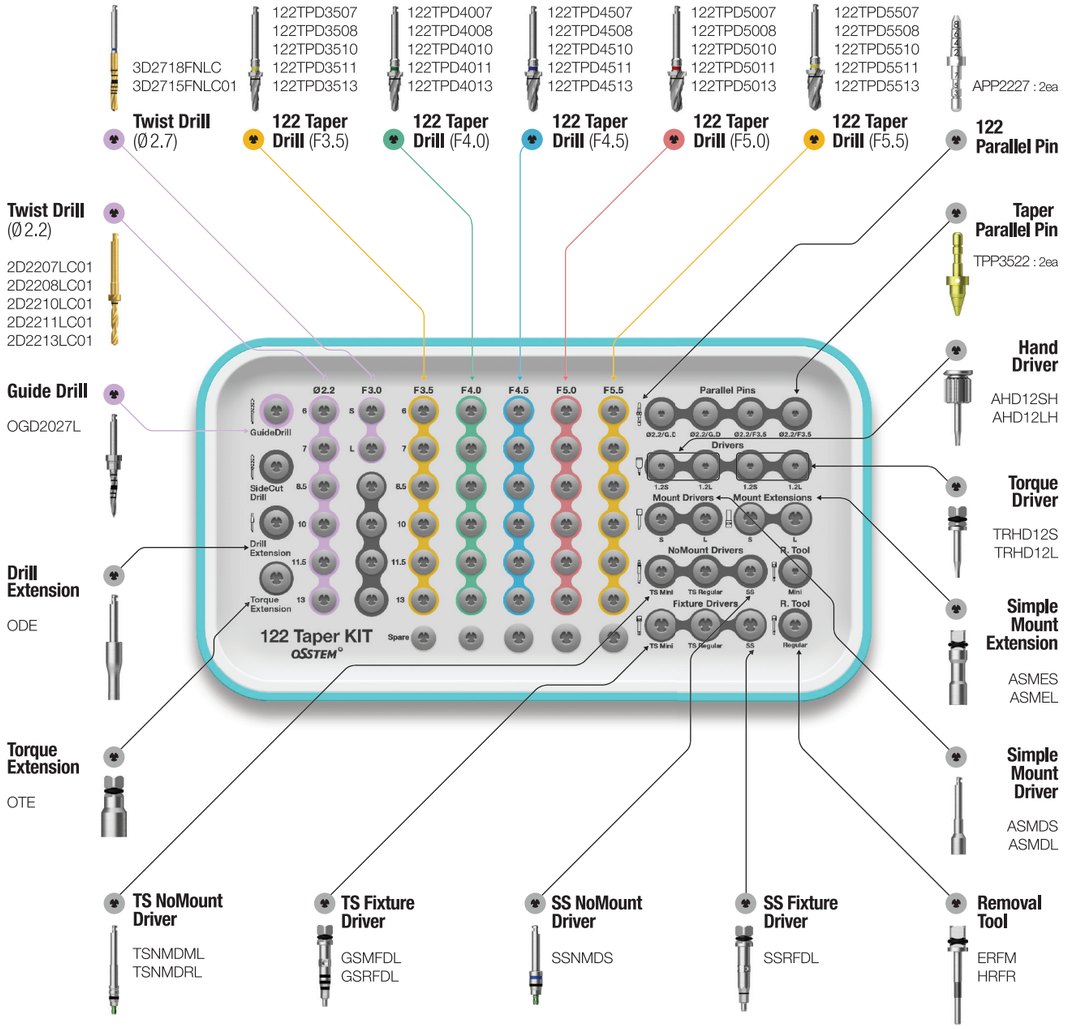
122 Taper KIT (O122TPK)

Applicable Products TSIII / IV SSIII

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



• More details on KIT components can be found in Surgical Instruments(222p~242p)

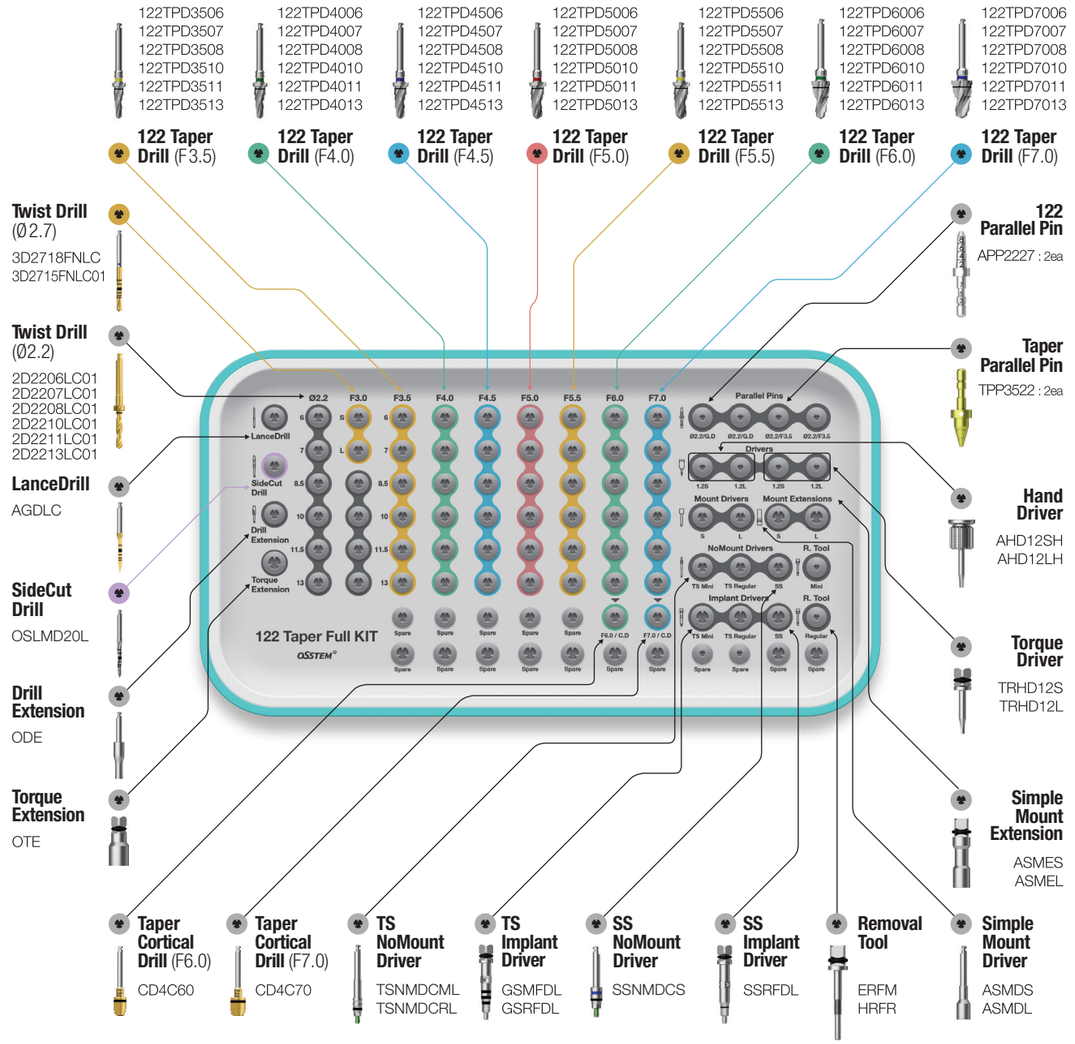
122 Taper Full KIT (O122TPFK)

Applicable Products TSIII / IV SSIII III / IV Ultra-wide

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



• More details on KIT components can be found in Surgical Instruments(222p~242p)

Drilling Sequence **122 Taper Drill**

TSIII | SSIII

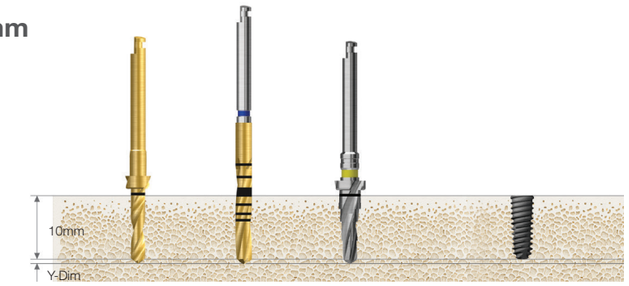
(Length : 10mm)

F5.5 taper cortical drill marking line : Bottom line for placing 6mm or smaller implants, midline for 7mm implants, and top line for 8,5mm or greater implants

Recommended placement torque ≤ **40Ncm**

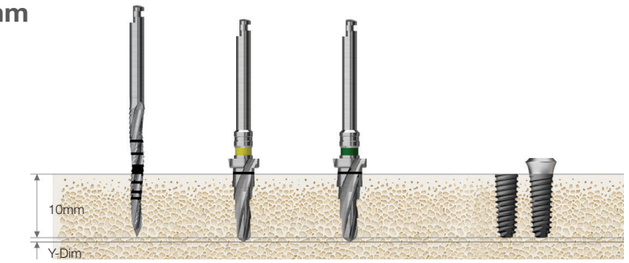
TS implant placement depth : For normal bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability

Ø3.0mm



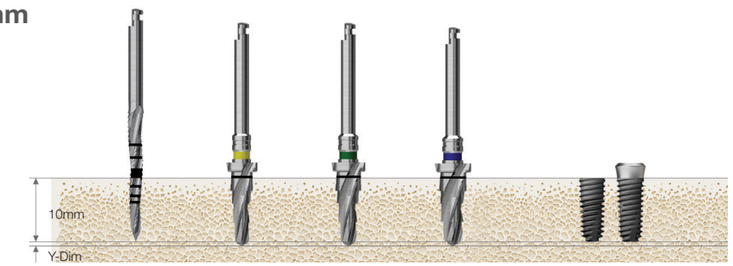
Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø2.7)	122Taper Drill (F3.5)	Ø3.0 Implant
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶		▶	

Ø3.5mm



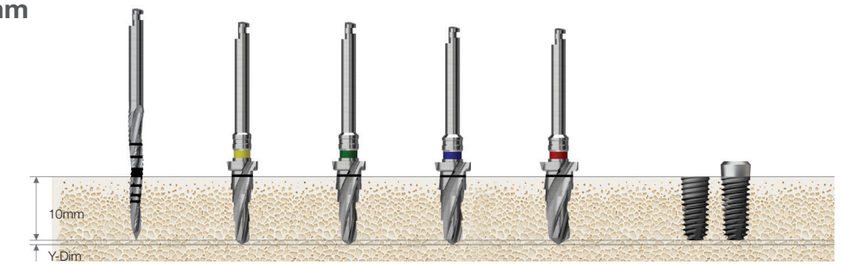
Bone Quality	Sidecut Drill	122Taper Drill (F3.5)	122Taper Drill (F4.0)	Ø3.5 Implant
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

Ø4.0mm



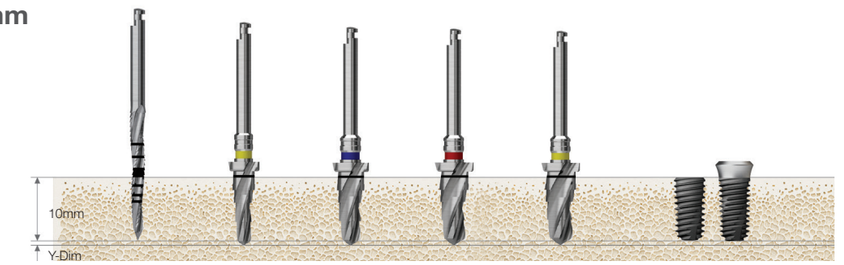
Bone Quality	Sidecut Drill	122Taper Drill (F3.5)	122Taper Drill (F4.0)	122Taper Drill (F4.5)	Ø4.0 Implant
Soft	▶	▶			Implant Placement
Normal	▶	▶	▶		
Hard	▶	▶		▶	

Ø4.5mm



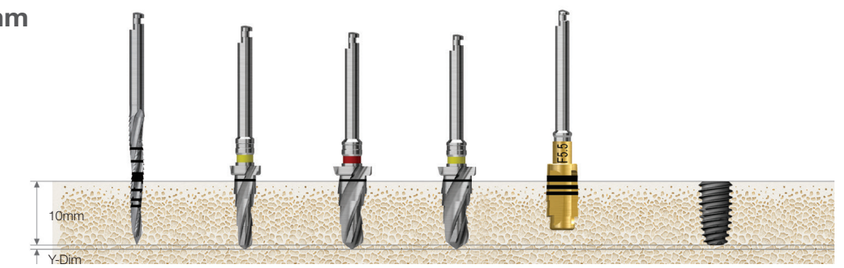
Bone Quality	Sidecut Drill	122Taper Drill (F3.5)	122Taper Drill (F4.0)	122Taper Drill (F4.5)	122Taper Drill (F5.0)	Ø4.5 Implant
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶			▶	

Ø5.0mm



Bone Quality	Sidecut Drill	122Taper Drill (F3.5)	122Taper Drill (F4.5)	122Taper Drill (F5.0)	122Taper Drill (F5.5)	Ø5.0 Implant
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶			▶	

Ø5.5mm



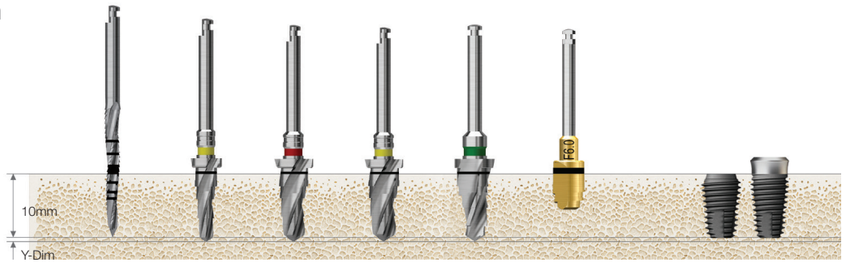
Bone Quality	Sidecut Drill	122Taper Drill (F3.5)	122Taper Drill (F5.0)	122Taper Drill (F5.5)	Taper Cortical Drill(F5.5)	Ø5.5 Implant
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶		▶	▶	

Drilling Sequence **122 Taper Drill**

TSIII Ultra-wide | SSIII Ultra-wide

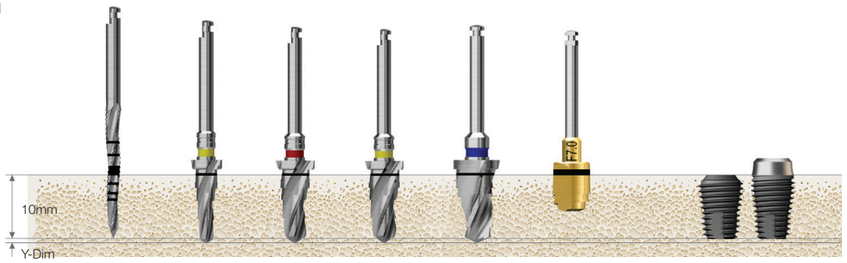
(Length : 10mm)

Ø6.0mm



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

Ø7.0mm



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

F5.5 taper cortical drill marking line : Bottom line for placing 6mm or smaller implants, midline for 7mm implants, and top line for 8.5mm or greater implants

Recommended placement torque ≤ **40Ncm**

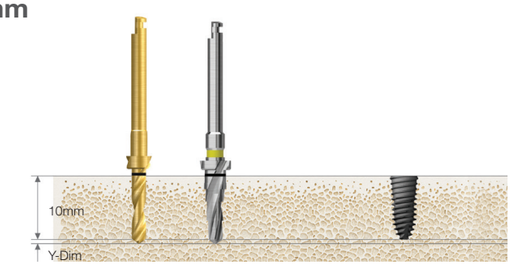
TS implant placement depth : For normal bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability

Drilling Sequence **122 Taper Drill**

TSIV

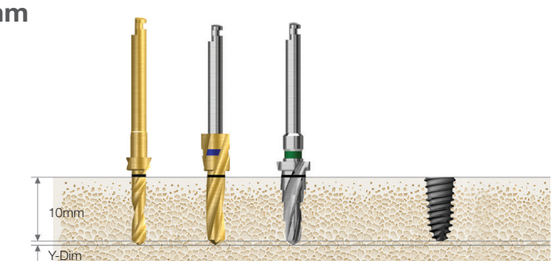
(Length : 10mm)

Ø4.0mm



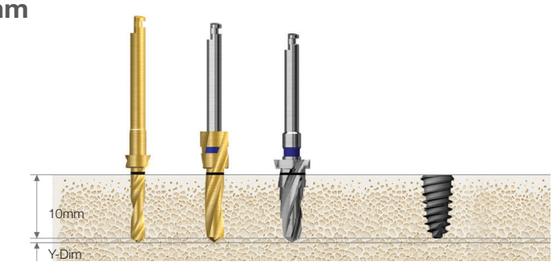
Bone Quality	Twist Drill (Ø2.2)	122Taper Drill (F3.5)	Ø4.0 Implant
D4	▶		Implant Placement
Soft	▶	▶	

Ø4.5mm



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

Ø5.0mm



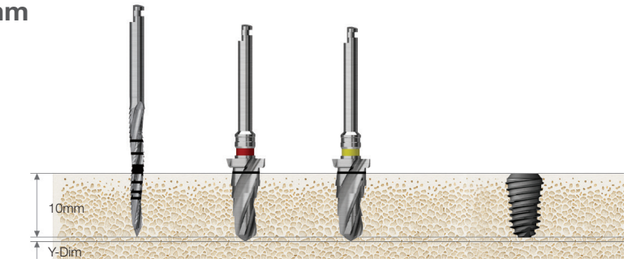
Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø3.0)	122Taper Drill (F4.5)	Ø5.0 Implant
D4		▶		Implant Placement
Soft	▶		▶	

Drilling Sequence **122 Taper Drill**

TSIV Ultra-wide

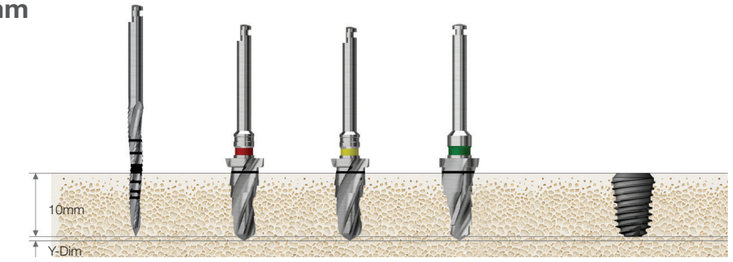
(Length : 10mm)

ø6.0mm



Bone Quality	Sidecut Drill	122 Taper Drill (F5.0)	122 Taper Drill (F5.5)	Ø6.0 Implant
D4	▶	▶		Implant Placement
Soft	▶	▶	▶	

ø7.0mm



Bone Quality	Sidecut Drill	122 Taper Drill (F5.0)	122 Taper Drill (F5.5)	122 Taper Drill (F6.0)	Ø7.0 Implant
D4	▶	▶	▶		Implant Placement
Soft	▶	▶	▶	▶	

F5.5 taper cortical drill marking line : Bottom line for placing 6mm or smaller implants, midline for 7mm implants, and top line for 8,5mm or greater implants

Recommended placement torque ≤ **40Ncm**

TS implant placement depth : For normal bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability

Taper KIT (OTSK)

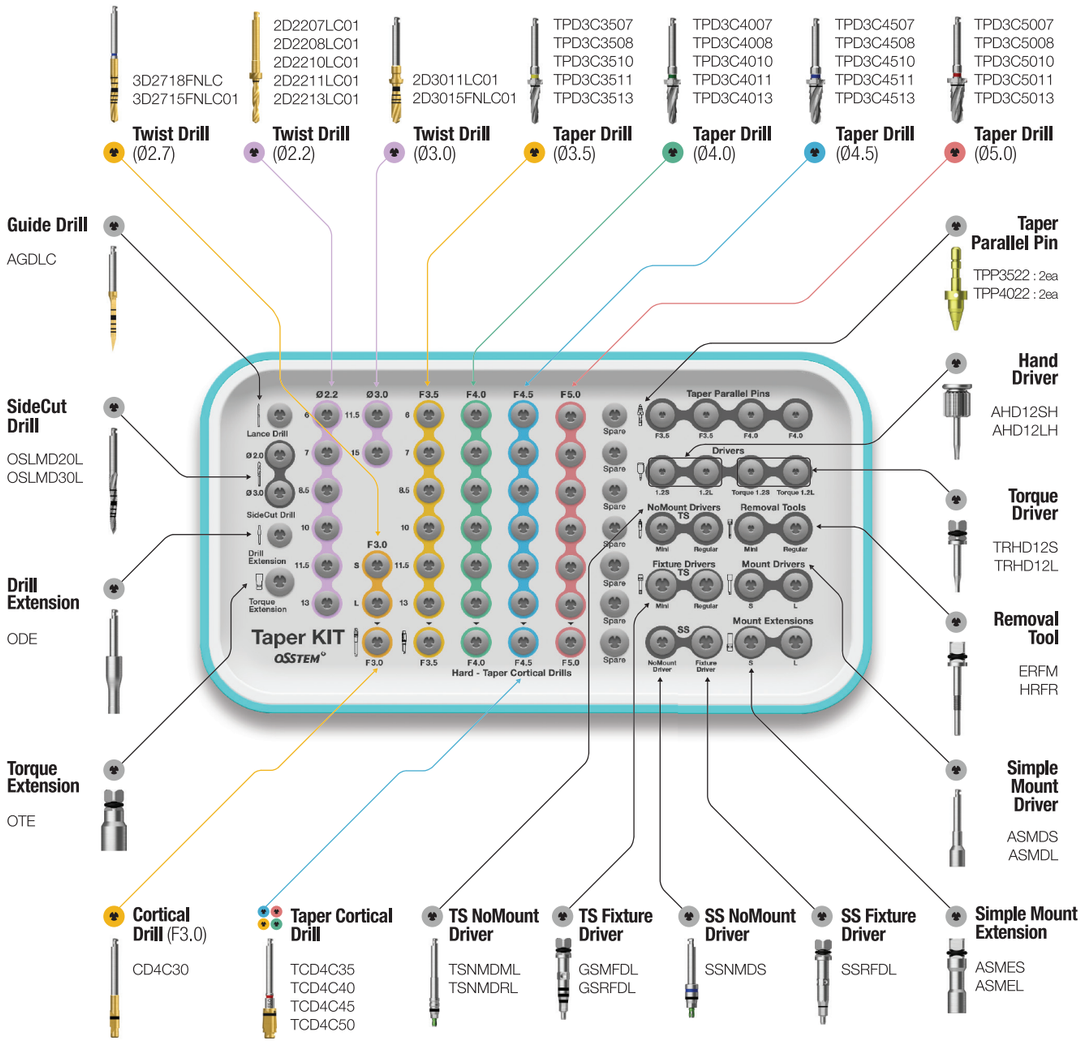
Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG

Applicable Products

TSIII / IV | SSIII



• More details on KIT components can be found in Surgical Instruments(222p~242p)

Taper Ultra KIT (HULTPK)

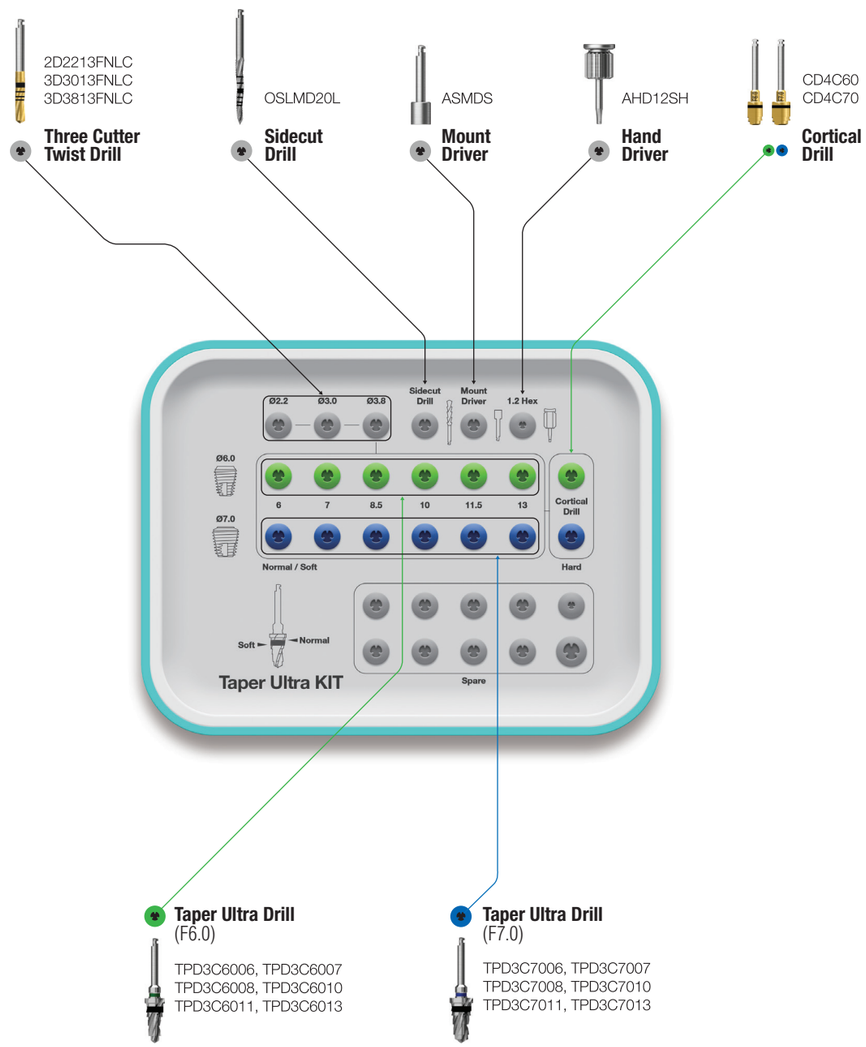
Top panel components

Open Wrench
SPOW

Ratchet Wrench
RCWC

Applicable Products

III Ultra-wide



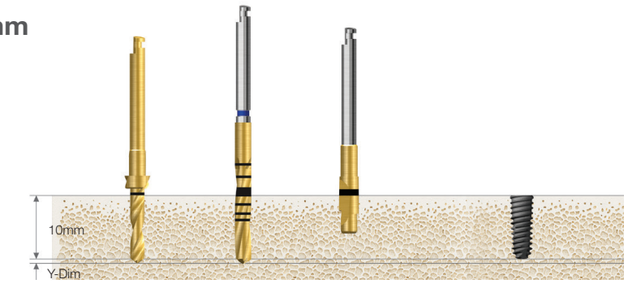
• More details on KIT components can be found in Surgical Instruments(222p~242p)

Drilling Sequence **Taper Drill**

TSIII | SSIII

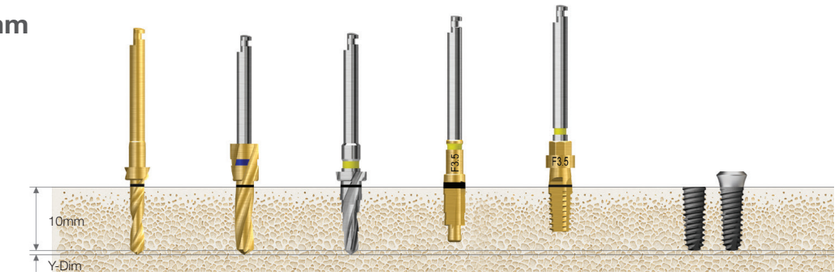
(Length : 10mm)

Ø3.0mm



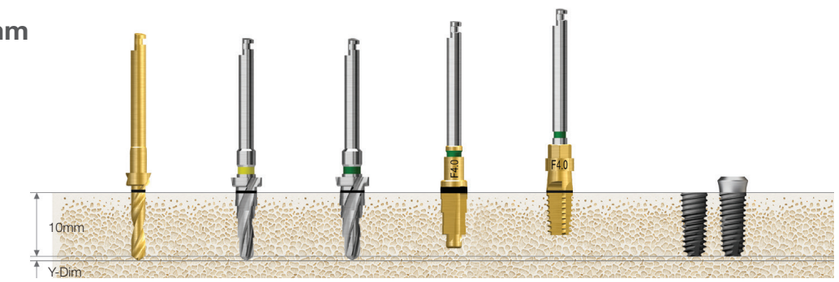
Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø2.7)	Cortical Drill (F3.0)	Ø3.0 Implant
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

Ø3.5mm



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

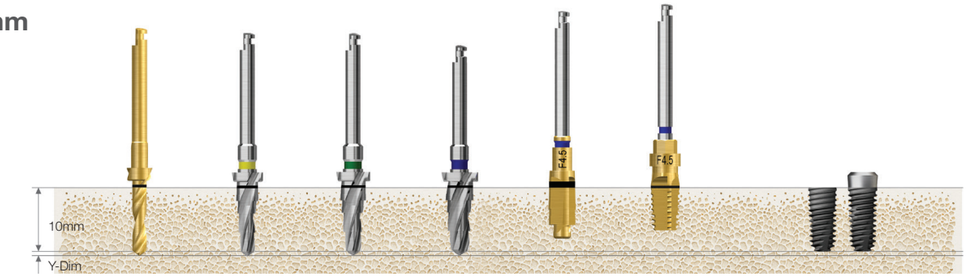
Ø4.0mm



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

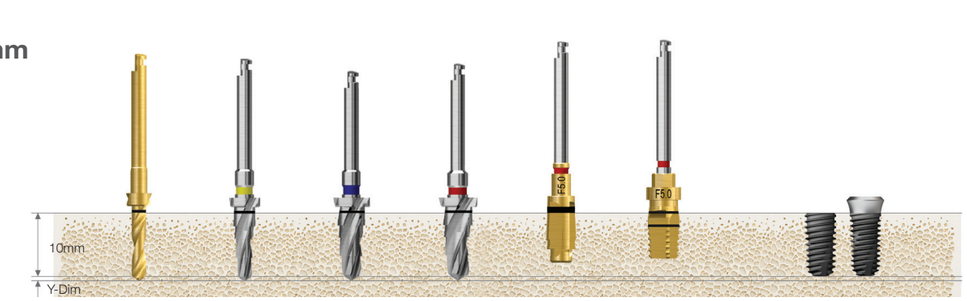
Taper cortical drill marking line : Bottom line for placing 8.5mm or greater implants, and top line for 10mm or greater implants
Recommended placement torque ≤ **40Ncm**
TS implant placement depth : For normal bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability
For implant tap used in hard bones, engine (25rpm recommended) is used or a torque wrench is used after assembling mount extension
(F5.0 Implant Tap : Bottom line for placing 7.0mm or smaller implants, and top line for 8.5mm or greater implants)

Ø4.5mm



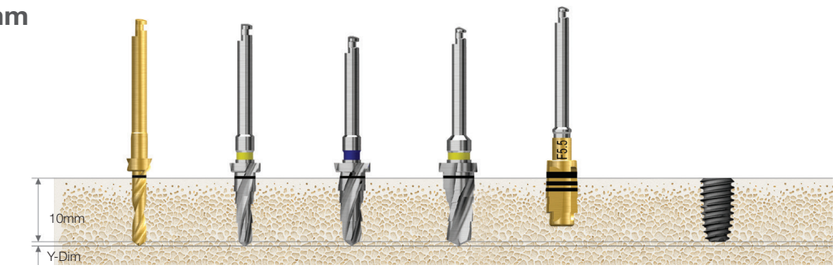
Bone Quality	Twist Drill (Ø2.2)	Taper Drill (F3.5)	Taper Drill (F4.0)	Taper Drill (F4.5)	Taper Cortical Drill (F4.5)	Taper Implant Tap (F4.5)	Ø4.5 Implant
Soft	▶	▶	▶				Implant Placement
Normal	▶	▶		▶			
Hard	▶	▶		▶	▶		
Hard (Option)	▶	▶		▶		▶	

Ø5.0mm



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

Ø5.5mm



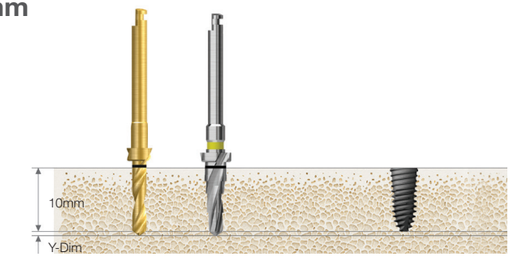
Bone Quality	Twist Drill (Ø2.2)	Taper Drill (F3.5)	Taper Drill (F4.5)	Taper Drill (F5.5)	Taper Implant Tap (F5.5)	Ø5.5 Implant
Soft	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶	▶	▶	

Drilling Sequence **Taper Drill**

TSIV

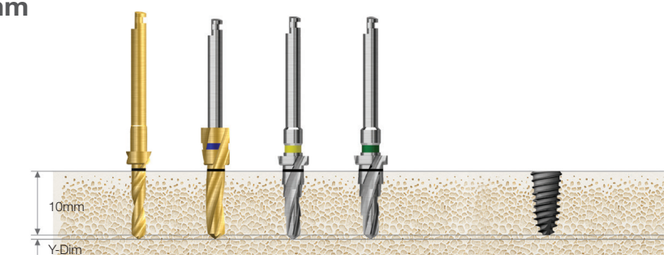
(Length : 10mm)

Ø4.0mm



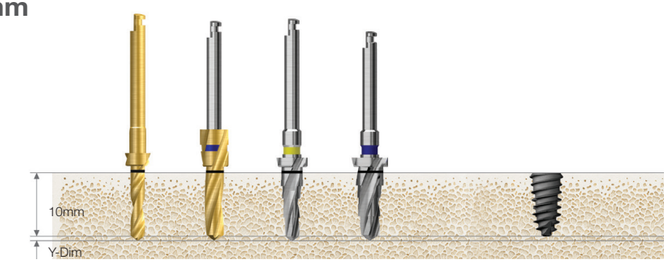
Bone Quality	Twist Drill (Ø2.2)	Taper Drill (F3.5)	Ø4.0 Implant
D4	▶		Implant Placement
Soft	▶	▶	

Ø4.5mm



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

Ø5.0mm



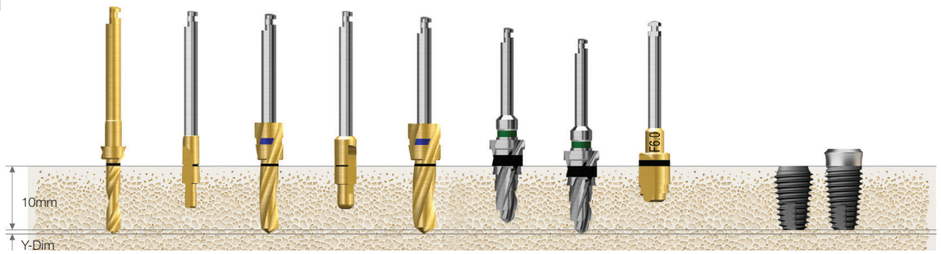
Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø3.0)	Taper Drill (F3.5)	Taper Drill (F4.5)	Ø5.0 Implant
D4		▶			Implant Placement
Soft	▶		▶	▶	

Drilling Sequence **Taper Drill**

TSIII Ultra-wide | SSIII Ultra-wide

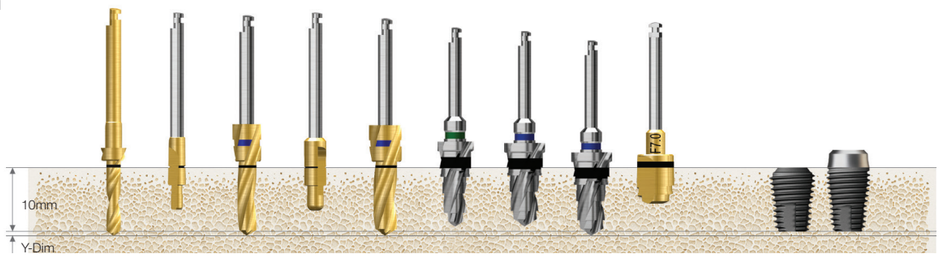
(Length : 10mm)

Ø6.0mm



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

Ø7.0mm



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

Recommended placement torque ≤ **40Ncm**

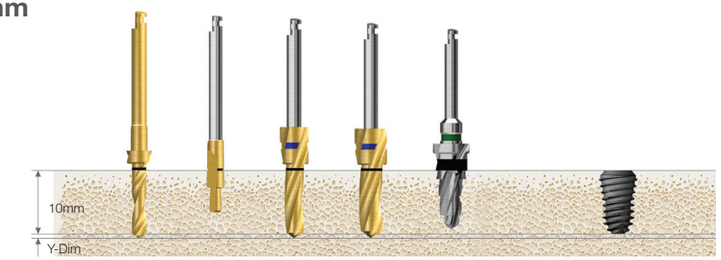
TS implant placement depth : For normal/hard bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability

Drilling Sequence **Taper Drill**

TSIV Ultra-wide

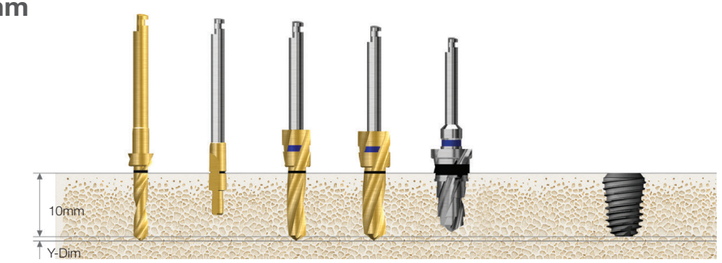
(Length : 10mm)

ø6.0mm



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

ø7.0mm



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

Recommended placement torque ≤ **40Ncm**

TS implant placement depth : For normal/hard bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability

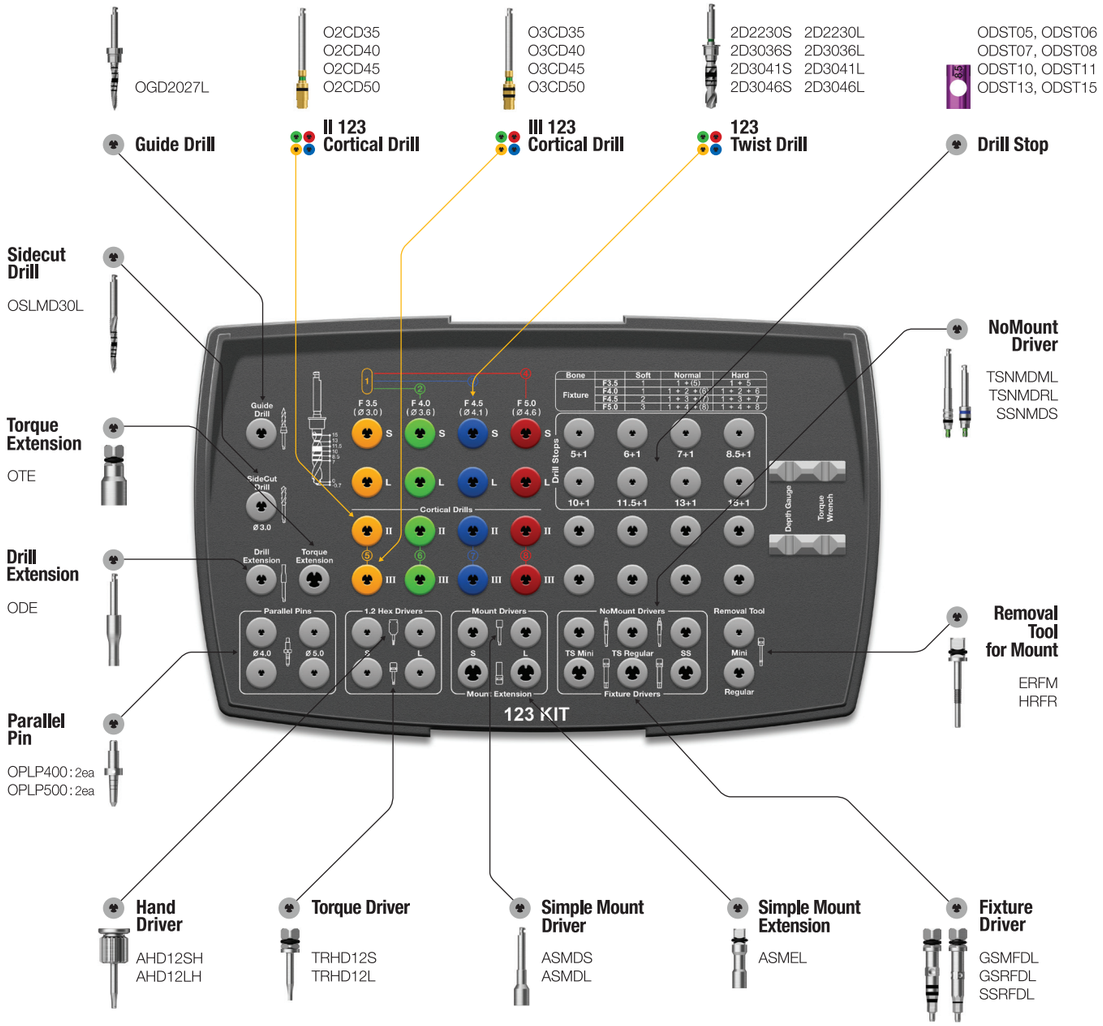
123 Straight Simple KIT (O123K)

Applicable Products TSII / III SSII / III

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



• More details on KIT components can be found in Surgical Instruments(222p~242p)

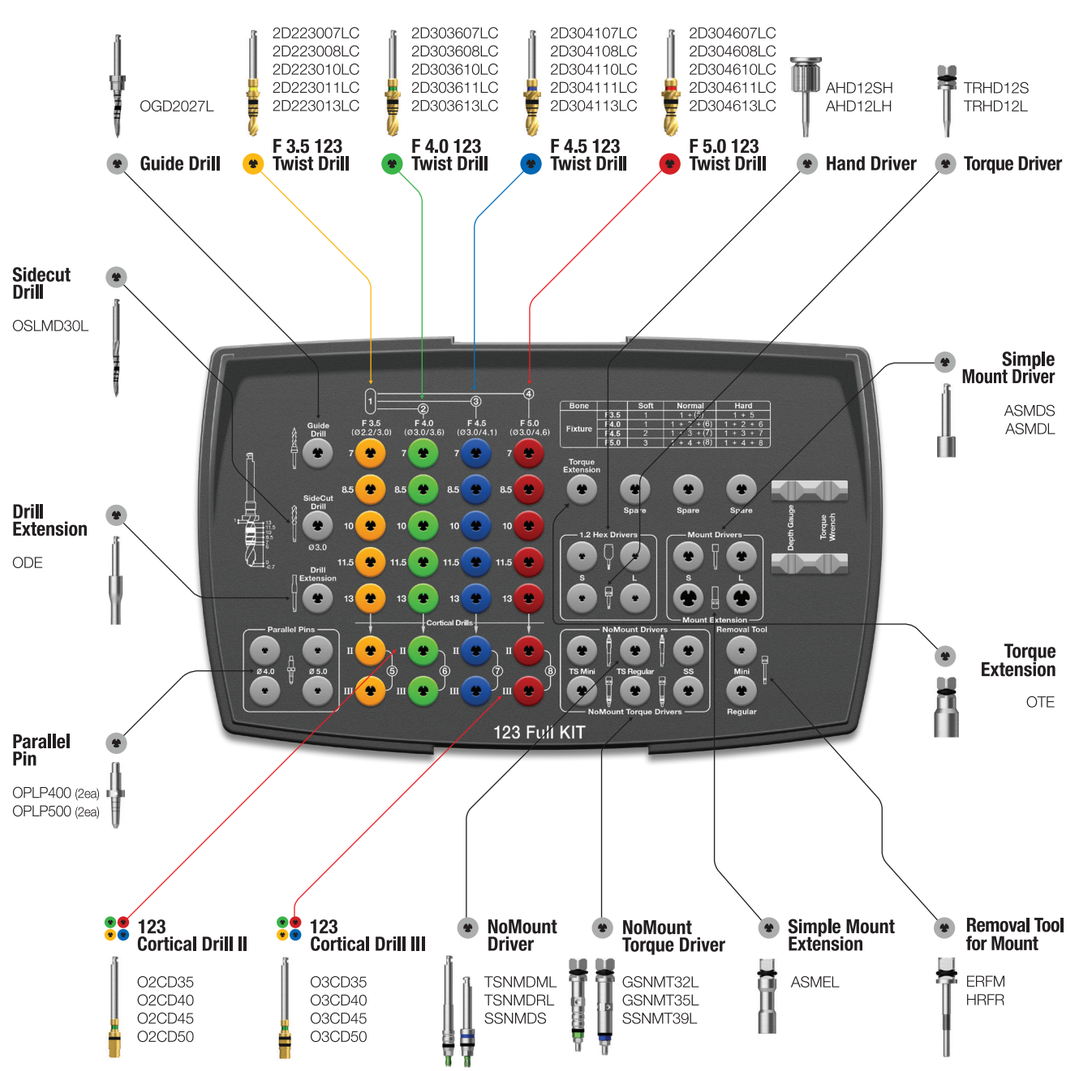
123 Straight KIT (O123FK)

Applicable Products TSII / III SSII / III

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



• More details on KIT components can be found in Surgical Instruments(222p~242p)

123 Straight Full KIT (O123STFK)

Applicable Products TSII / III | SSII / III | II / III Ultra-wide

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG

123 Twist Drill (F3.5)
2D223006LC
2D223007LC
2D223008LC
2D223010LC
2D223011LC
2D223013LC

123 Twist Drill (F4.0)
2D303606LC
2D303607LC
2D303608LC
2D303610LC
2D303611LC
2D303613LC

123 Twist Drill (F4.5)
2D304106LC
2D304107LC
2D304108LC
2D304110LC
2D304111LC
2D304113LC

123 Twist Drill (F5.0)
2D304606LC
2D304607LC
2D304608LC
2D304610LC
2D304611LC
2D304613LC

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

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

Soft 123 Twist Drill (F7.0)
3D556213T

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

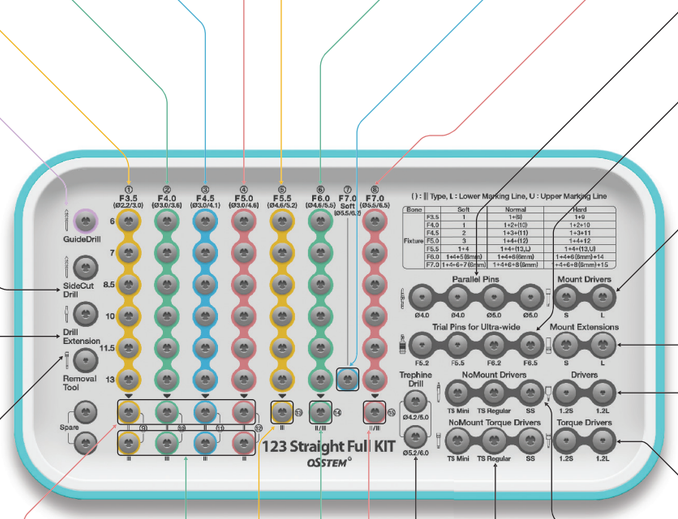
Parallel Pin
OPLP400 (2ea)
OPLP500 (2ea)

Guide Drill
OGD2027L

Sidecut Drill
OSLMD30L

Drill Extension
ODE

Removal Tool for Mount
HRFR



Trial Pin
UWFTP52
UWFTP55
UWFTP62
UWFTP65

Simple Mount Driver
ASMDS
ASMDL

Simple Mount Extension
ASMES
ASMEL

Hand Driver
AHD12SH
AHD12LH

Torque Driver
TRHD12S
TRHD12L

123 Cortical Drill (II)
O2CD35
O2CD40
O2CD45
O2CD50

123 Cortical Drill (III)
O3CD35
O3CD40
O3CD45
O3CD50

Cortical Drill (F5.5)
CD4C55

Cortical Drill (F6.0)
CD4C60

Cortical Drill (F7.0)
CD4C70

Trephine Drill
TD42S
TD52S

NoMount Torque Driver
GSNMT32L
GSNMT35L
SSNMT39L

NoMount Driver
TSNMDML
TSNMDRL
SSNMDS

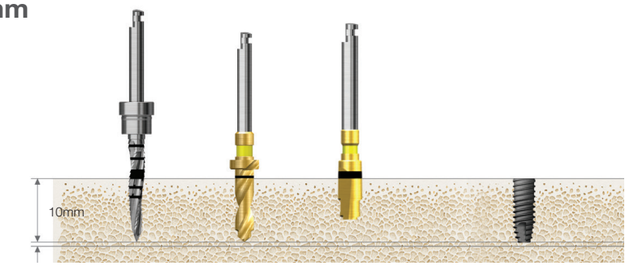
• More details on KIT components can be found in Surgical Instruments(222p~242p)

Drilling Sequence II Type 123 Twist Drill

TSII | SSII

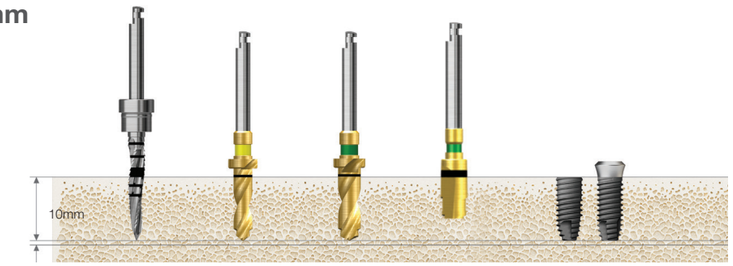
(Length : 10mm)

Ø3.5mm



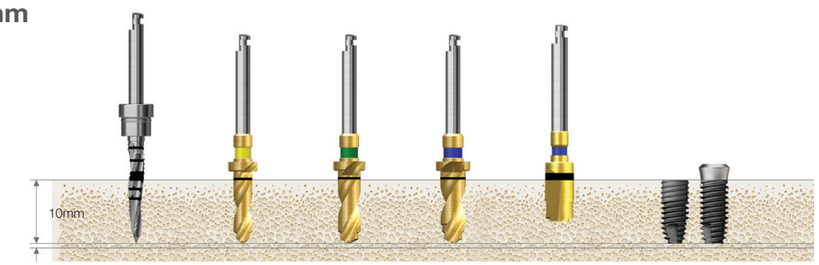
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Cortical Drill	Ø3.5 Implant
Soft	▶	▶		Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

Ø4.0mm



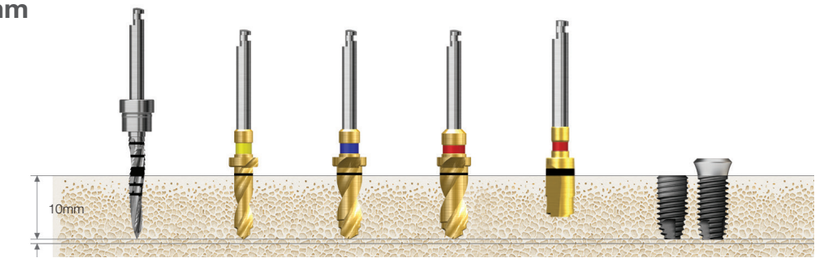
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/3.6)	Cortical Drill	Ø4.0 Implant
Soft	▶	▶			Implant Placement
Normal	▶	▶	▶		
Hard	▶	▶	▶	▶	

Ø4.5mm



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

Ø5.0mm



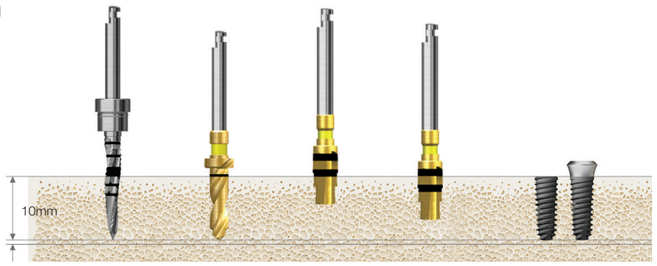
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.1)	Twist Drill (Ø3.0/4.6)	Cortical Drill	Ø5.0 Implant
Soft	▶		▶			Implant Placement
Normal	▶	▶		▶		
Hard	▶	▶		▶	▶	

Drilling Sequence III Type 123 Twist Drill

TSIII | SSIII

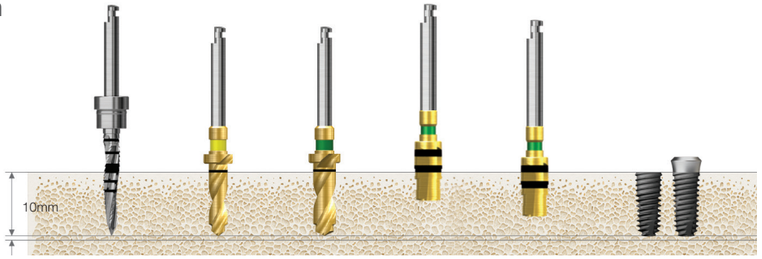
(Length : 10mm)

ø3.5mm



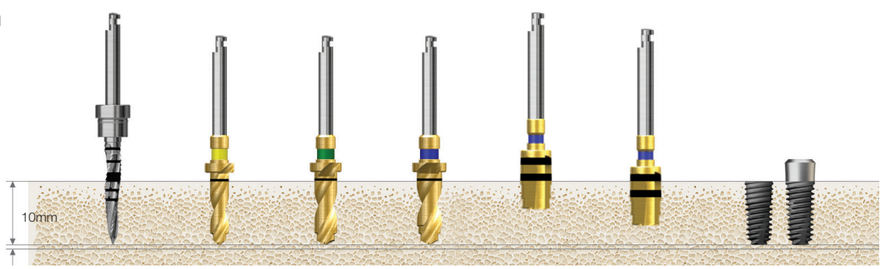
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Cortical Drill (F3.5) Bottom line	Cortical Drill (F3.5) Top line	Ø3.5 Implant
Soft	▶	▶			Implant Placement
Normal	▶	▶	▶		
Hard	▶	▶		▶	

ø4.0mm



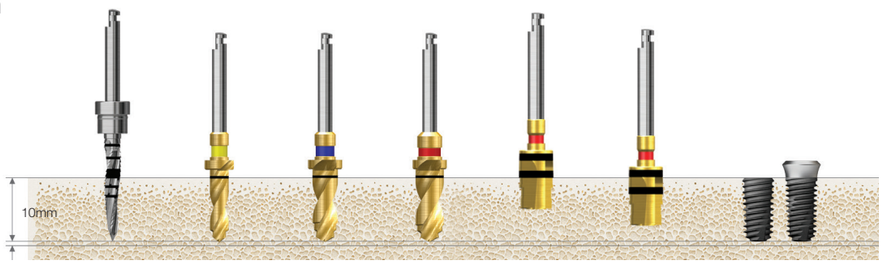
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/3.6)	Cortical Drill (F4.0) Bottom line	Cortical Drill (F4.0) Top line	Ø4.0 Implant
Soft	▶	▶				Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶		▶	

ø4.5mm



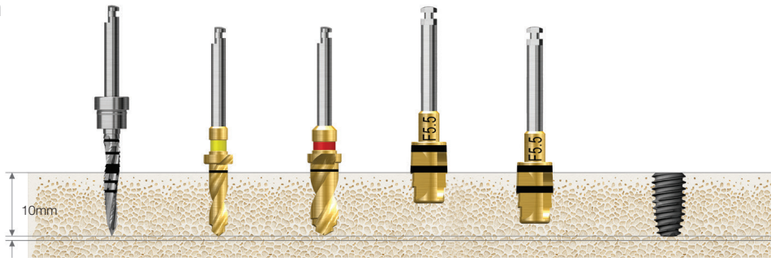
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/3.6)	Twist Drill (Ø3.0/4.1)	Cortical Drill (F4.5) Bottom line	Cortical Drill (F5.0) Top line	Ø4.5 Implant
Soft	▶		▶				Implant Placement
Normal	▶	▶		▶	▶		
Hard	▶	▶		▶		▶	

ø5.0mm



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

ø5.5mm



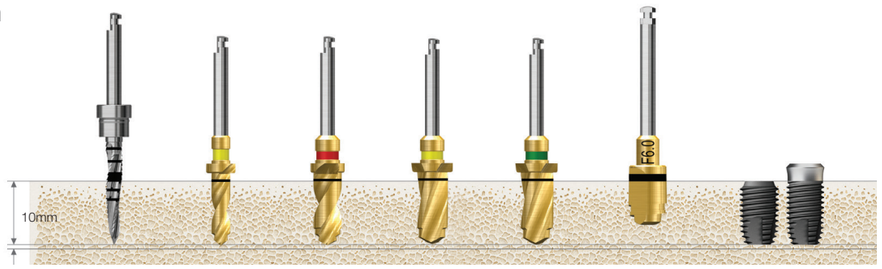
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.6)	Cortical Drill (F5.5) Bottom line	Cortical Drill (F5.5) Top line	Ø5.5 Implant
Soft	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶		▶	

Drilling Sequence Ultra-wide 123 Twist Drill

TSII Ultra-wide | SSII Ultra-wide

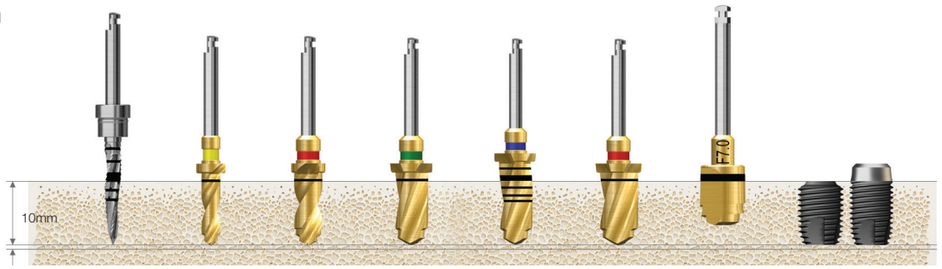
(Length : 10mm)

Ø6.0mm



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

Ø7.0mm



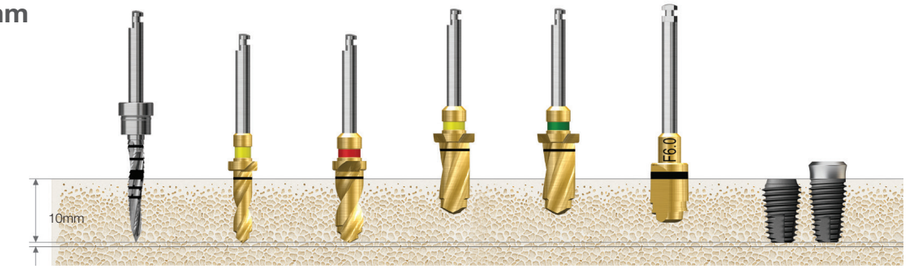
Bone Quality	Guide Drill	Twist Drill (Ø2.2/3.0)	Twist Drill (Ø3.0/4.6)	Twist Drill (Ø4.6/5.5)	Twist Drill (Ø4.6/5.5) (F7.0 Soft)	Twist Drill (Ø5.5/6.5)	Cortical Drill (F7.0)	Ø7.0 Implant
Soft	▶	▶	▶	▶	▶			
Normal	▶	▶	▶	▶		▶		Implant Placement
Hard	▶	▶	▶	▶		▶	▶	

Drilling Sequence Ultra-wide 123 Twist Drill

TSIII Ultra-wide | SSIII Ultra-wide

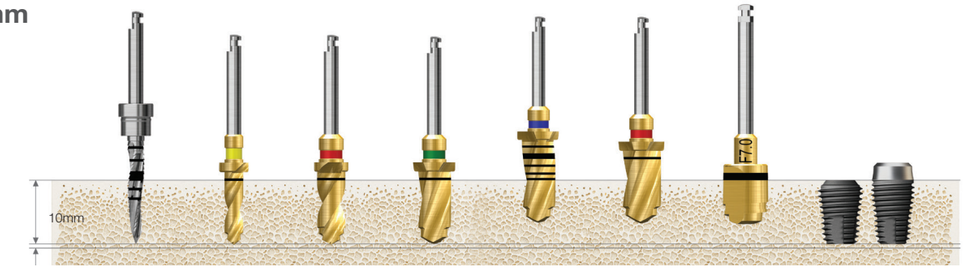
(Length : 10mm)

Ø6.0mm



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

Ø7.0mm



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

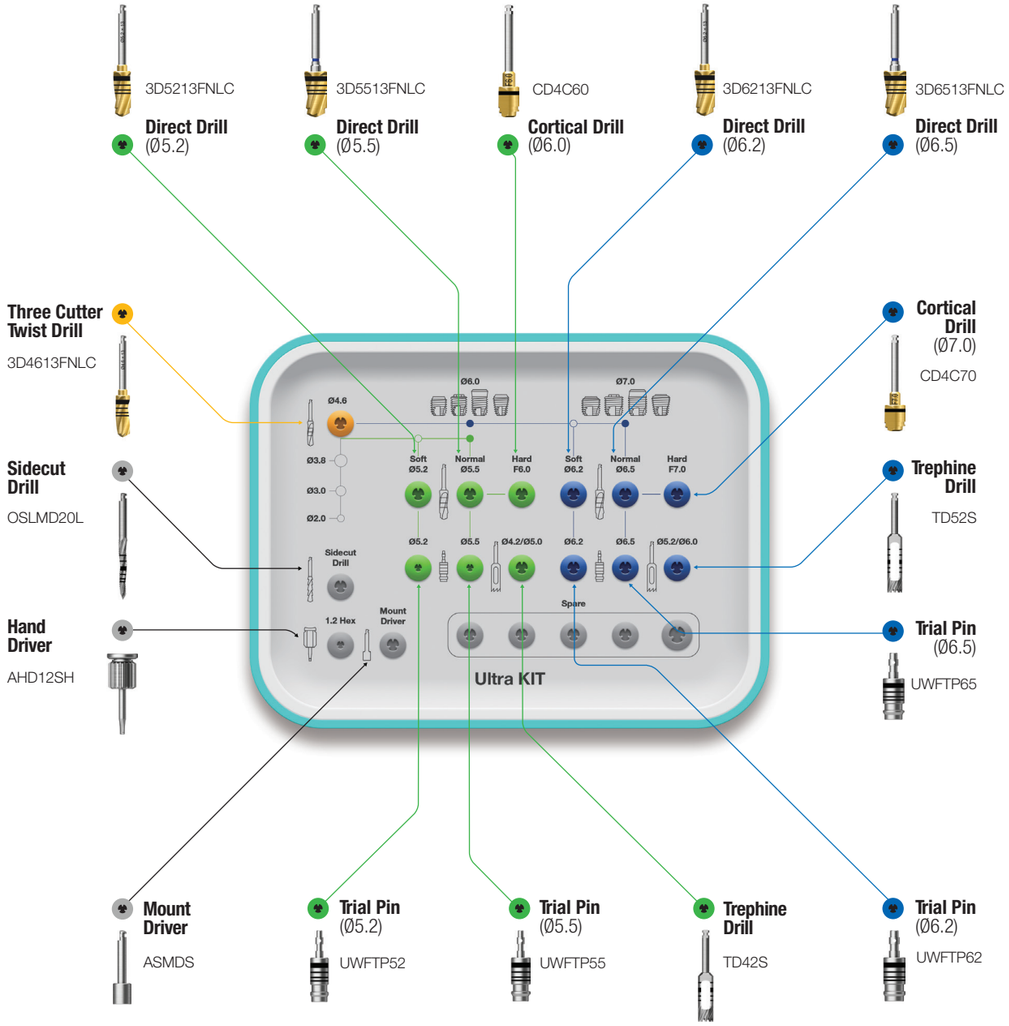
Ultra KIT (HULTRK)

Applicable Products Ultra-wide

Top panel components

Open Wrench
SPOW

Ratchet Wrench
RCWC



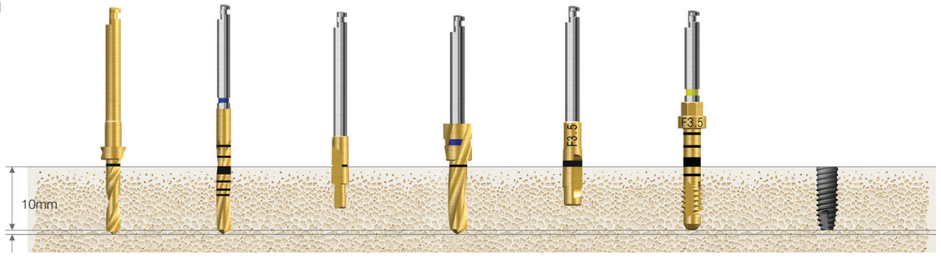
• More details on KIT components can be found in Surgical Instruments(222p~242p)

Drilling Sequence II Type **Straight Drill**

TSII | SSII

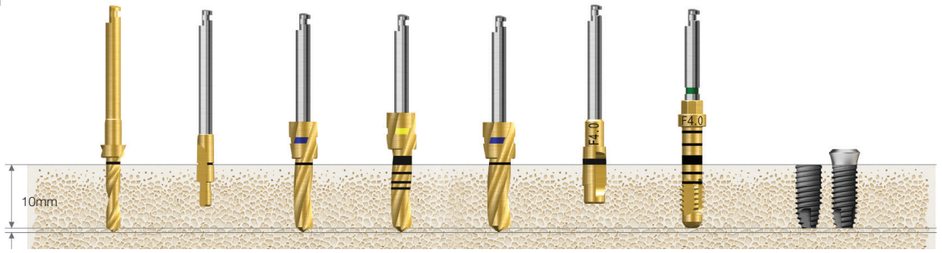
(Length : 10mm)

Ø3.5mm



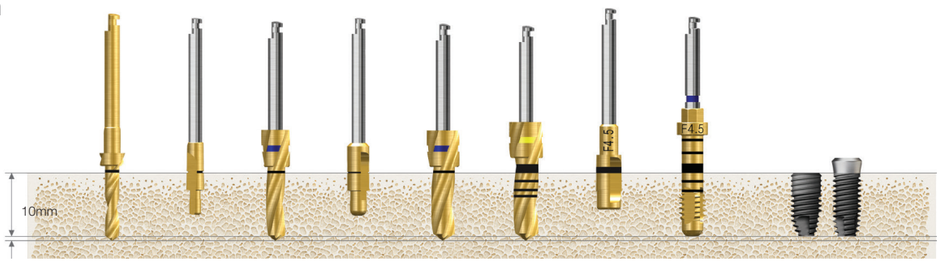
Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø2.7)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Cortical Drill (F3.5)	Straight Implant Tap (F3.5)	Ø3.5 Implant
Soft	▶	▶					Implant Placement
Normal	▶		▶	▶			
Hard	▶		▶	▶	▶		
Hard (Option)	▶		▶	▶		▶	

Ø4.0mm



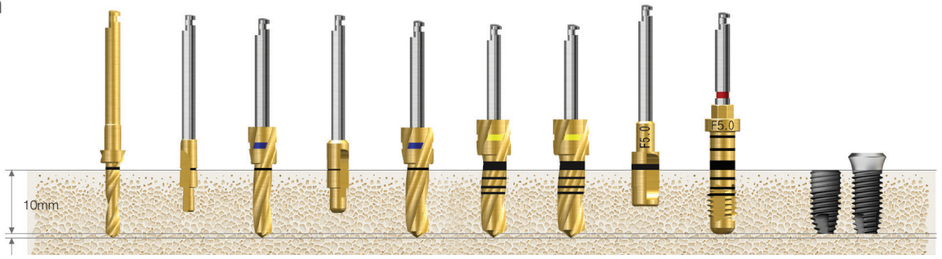
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Twist Drill (Ø3.3)	Twist Drill (Ø3.8)	Cortical Drill (F4.0)	Straight Implant Tap (F4.0)	Ø4.0 Implant
Soft	▶	▶	▶	▶				Implant Placement
Normal	▶	▶	▶		▶			
Hard	▶	▶	▶		▶	▶		
Hard (Option)	▶	▶	▶		▶		▶	

Ø4.5mm



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

Ø5.0mm



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

Recommended placement torque ≤ **40Ncm**

TS implant placement depth : For normal/hard bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability

For implant tap used in hard bones, engine (25rpm recommended) is used or a torque wrench is used after assembling mount extension

Drilling Sequence III Type Straight Drill

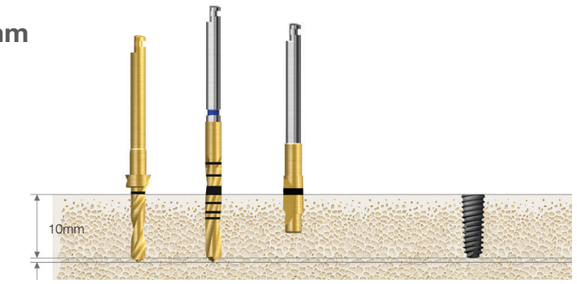
TSIII | SSIII

(Length : 10mm)

Recommended placement torque ≤ **40Ncm**

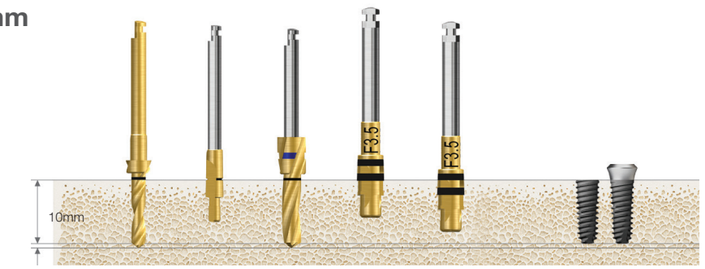
TS implant placement depth : For normal/hard bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability

Ø3.0mm



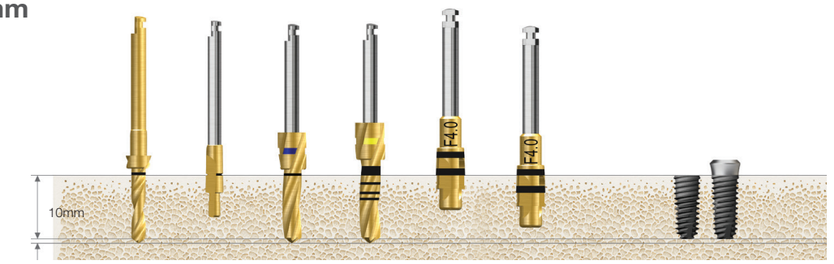
Bone Quality	Twist Drill (Ø2.2)	Twist Drill (Ø2.7)	Cortical Drill 2 (F3.0)	Ø3.0 Implant
Soft	▶			Implant Placement
Normal	▶	▶		
Hard	▶	▶	▶	

Ø3.5mm



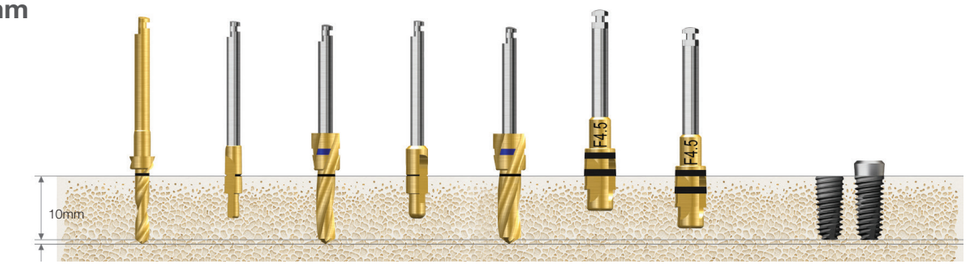
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø2.2)	Cortical Drill 3 (F3.5)	Cortical Drill 3 (F3.5)	Ø3.5 Implant
Soft	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶		
Hard	▶	▶	▶		▶	

Ø4.0mm



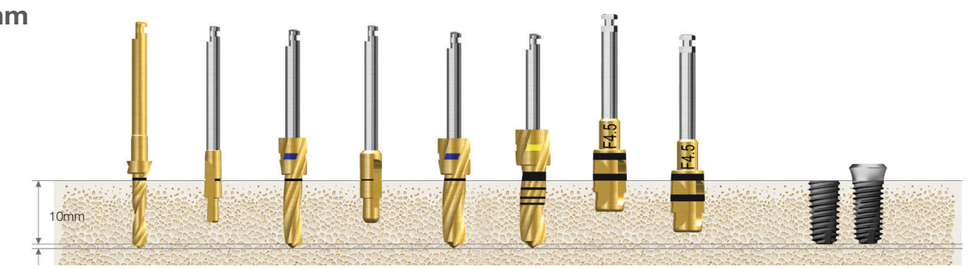
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Twist Drill (Ø3.3)	Cortical Drill 3 (F4.0)	Cortical Drill 3 (F4.0)	Ø4.0 Implant
Soft	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶		
Hard	▶	▶	▶	▶		▶	

Ø4.5mm



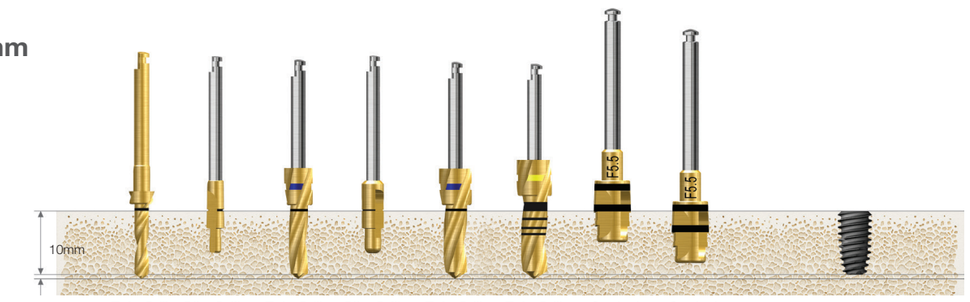
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Cortical Drill 3 (F4.5)	Cortical Drill 3 (F4.5)	Ø4.5 Implant
Soft	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶		
Hard	▶	▶	▶	▶	▶		▶	

Ø5.0mm



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

Ø5.5mm



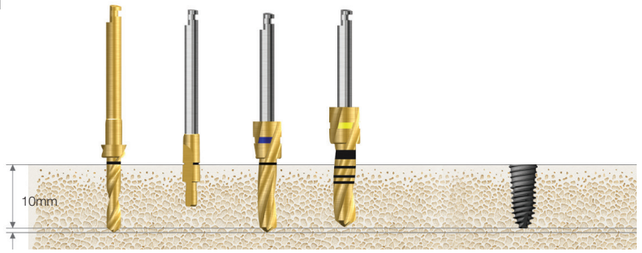
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6)	Cortical Drill 3 (F5.5)	Cortical Drill 3 (F5.5)	Ø5.5 Implant
Soft	▶	▶	▶	▶	▶	▶			Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		
Hard	▶	▶	▶	▶	▶	▶		▶	

Drilling Sequence IV Type **Straight Drill**

TSIV

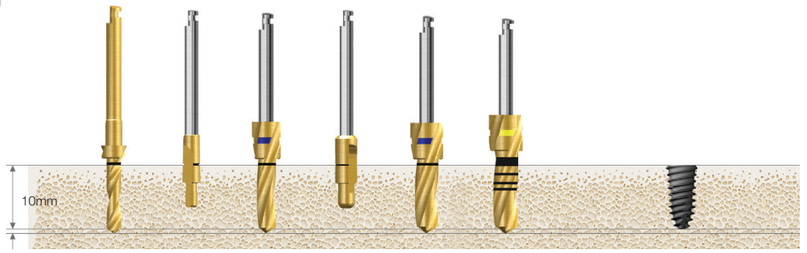
(Length : 10mm)

Ø4.0mm



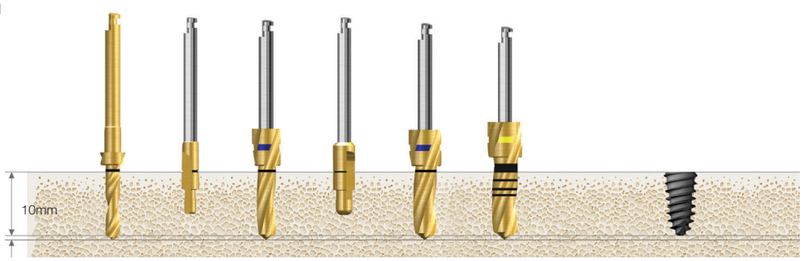
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Twist Drill (Ø3.0 Half)	Ø4.0 Implant
D4	▶				Implant Placement
Soft	▶	▶	▶	▶	

Ø4.5mm



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

Ø5.0mm



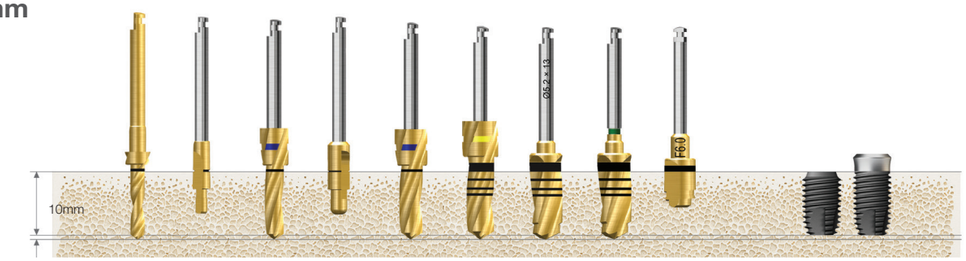
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill (Ø2.0/3.0)	Twist Drill (Ø3.0)	Pilot Drill (Ø3.0/3.8)	Twist Drill (Ø3.8)	Twist Drill (Ø4.6 Half)	Ø5.0 Implant
D4			▶				Implant Placement
Soft	▶	▶	▶	▶	▶	▶	

Drilling Sequence Ultra-wide **Straight Drill**

TSII Ultra-wide | SSII Ultra-wide

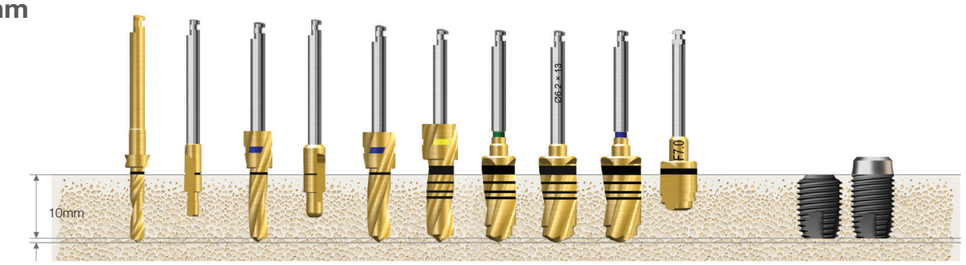
(Length : 10mm)

Ø6.0mm



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

Ø7.0mm



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

Recommended placement torque ≤ 40Ncm

TSIV/USIV implants are specifically designed for sinus lift and soft bones, and not recommended for bone quality of normal bones or higher. In the case of TSIV/USIV implants, the speed of implant placement is fast due to the large pitch of the thread, and placing the implant by lowering the drilling speed to 15rpm or lower is recommended.

Drilling Sequence Ultra-wide **Straight Drill**

TSII Ultra-wide | SSII Ultra-wide

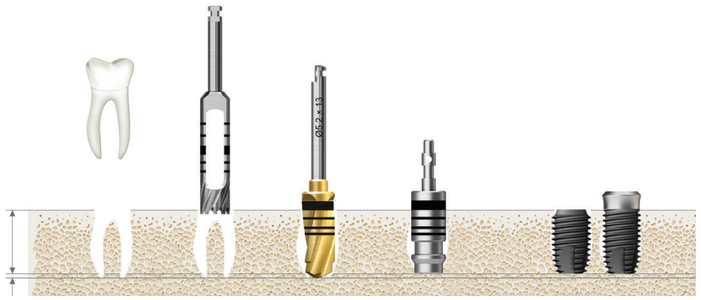
(Length : 10mm)

ø6.0mm

Drilling sequence with trephine in the healed mature bone

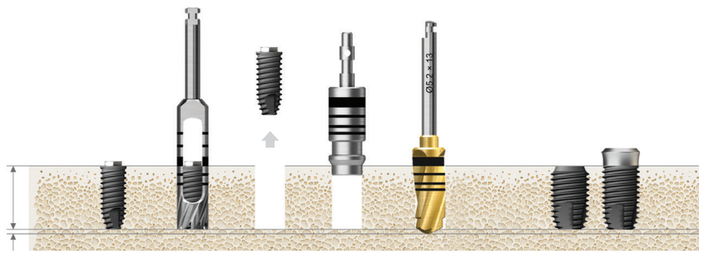
Bone Quality	Trephine Drill (Ø4.2/5.0)	Direct Drill (Ø4.6/5.2)	Direct Drill (Ø4.6/5.5)	Cortical Drill (F6.0)	Ø6.0 Implant
Soft	▶	▶			Implant Placement
Normal	▶		▶		
Hard	▶		▶	▶	

Immediate placement at the extraction socket



Trephine Drill (Ø4.2/5.0)	Direct Drill (Ø4.6/5.0)	Trial Pin (Ø5.5)	6.0 Ultra-Wide Implant

Immediate replacement of the failed implant



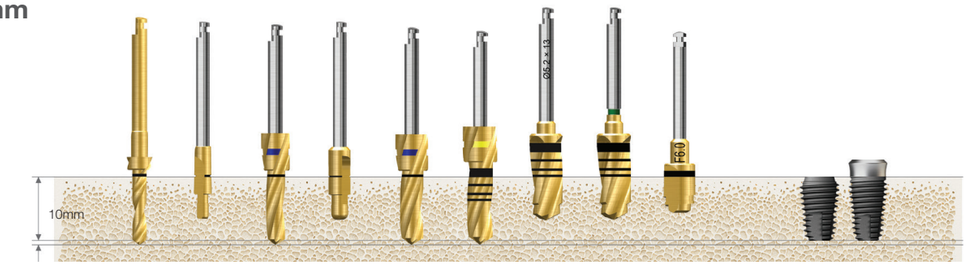
Ø4.0 Failed Implant	Trephine Drill (Ø4.2/Ø5.0)	Trial Pin (Ø5.5)	Direct Drill (Ø4.6/Ø5.5)	6.0 Ultra-Wide Implant

Drilling Sequence Ultra-wide **Straight Drill**

TSIII Ultra-wide | SSIII Ultra-wide

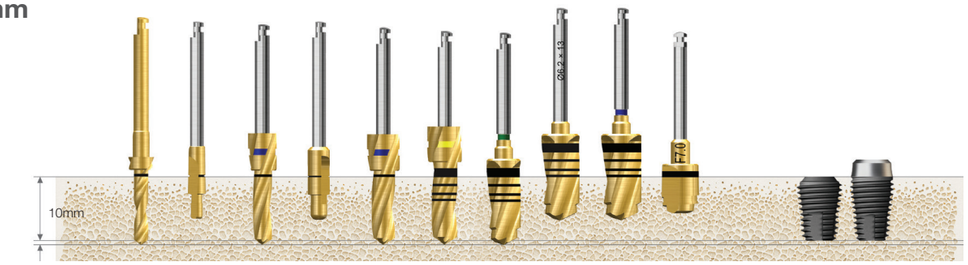
(Length : 10mm)

ø6.0mm



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

ø7.0mm



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

Recommended placement torque ≤ **40Ncm**

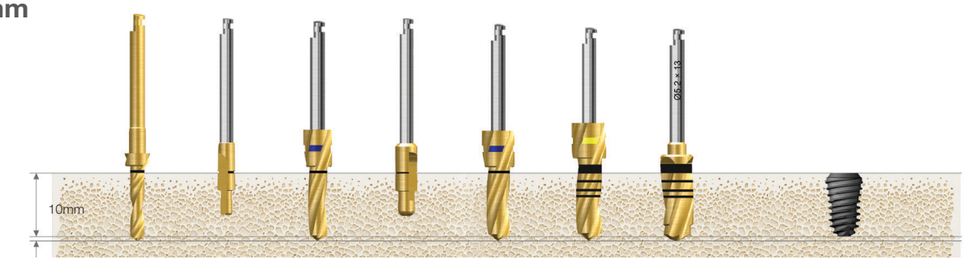
TS implant placement depth : For normal/hard bones, 1mm deeper than the bone level; for soft bones, matched to the bone level to maintain the stability

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

TSIV Ultra-wide

(Length : 10mm)

ø6.0mm



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

ø7.0mm

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

Recommended placement torque ≤ **40Ncm**

485 KIT (O485K)

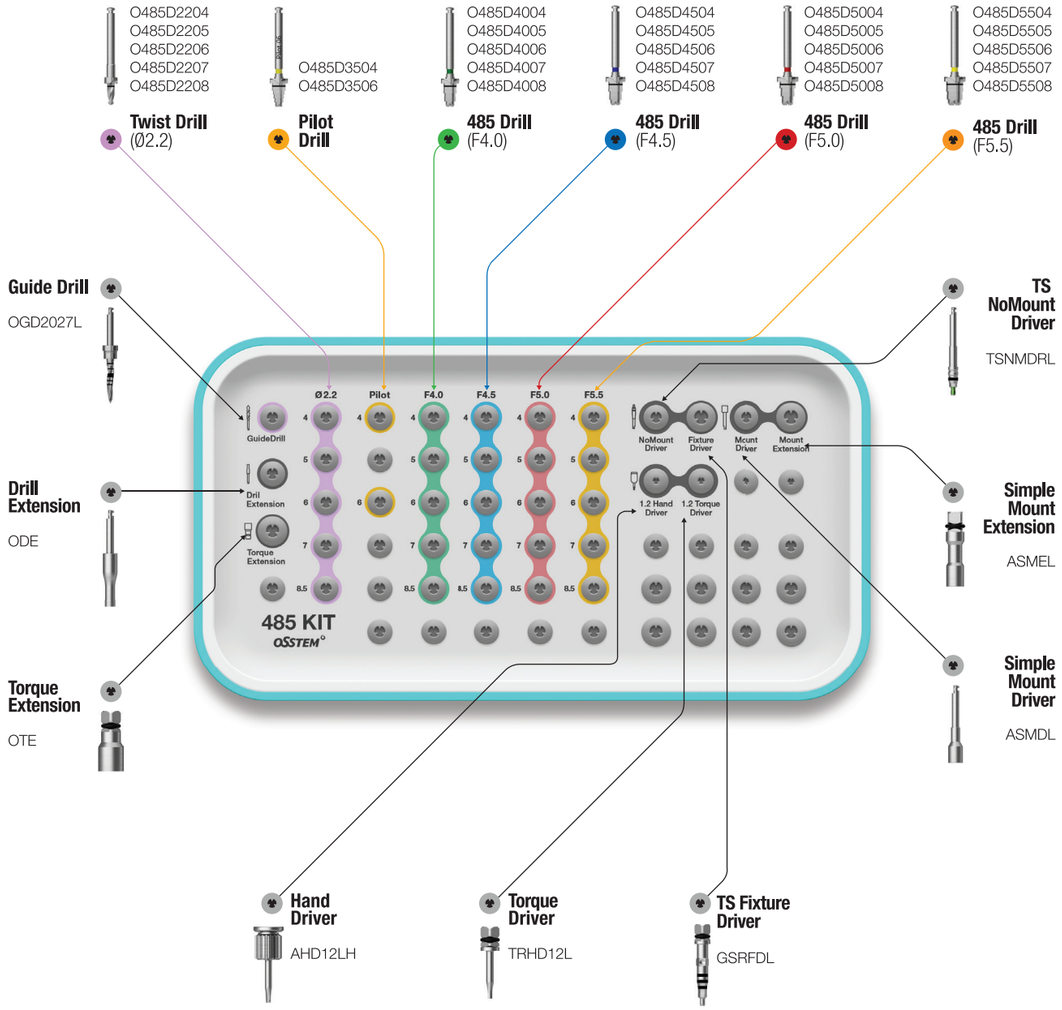
Applicable Products

TSIII SSIII

Top panel components

Torque Wrench
TW30B

Depth Gauge
OSDG



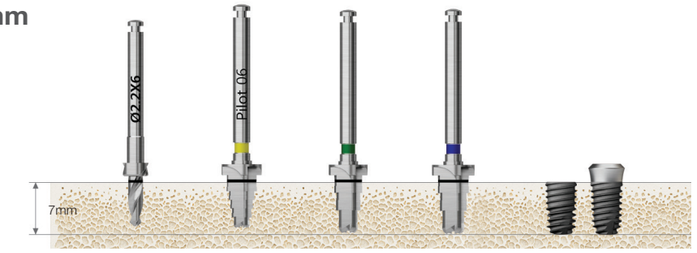
• More details on KIT components can be found in Surgical Instruments(222p~242p)

Drilling Sequence **485 Drill**

TSIII | SSIII

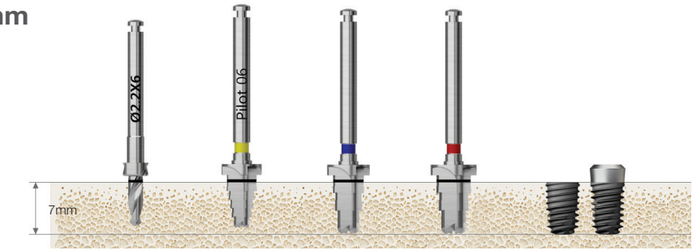
(Length : 7mm)

Ø4.0mm



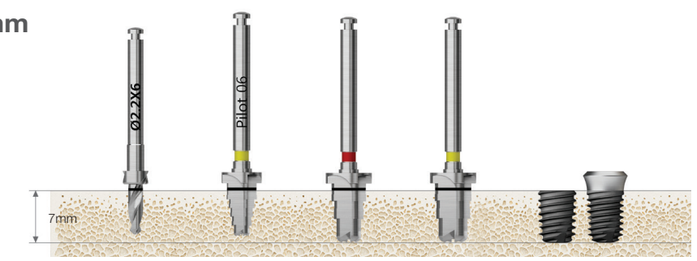
Bone Quality	Twist Drill (Ø2.2)	Pilot Drill	485 Drill (F4.0)	485 Drill (F4.5)	Ø4.0 Implant
Normal	▶	▶	▶		Implant Placement
Hard	▶	▶		▶	

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	▶	▶		▶	

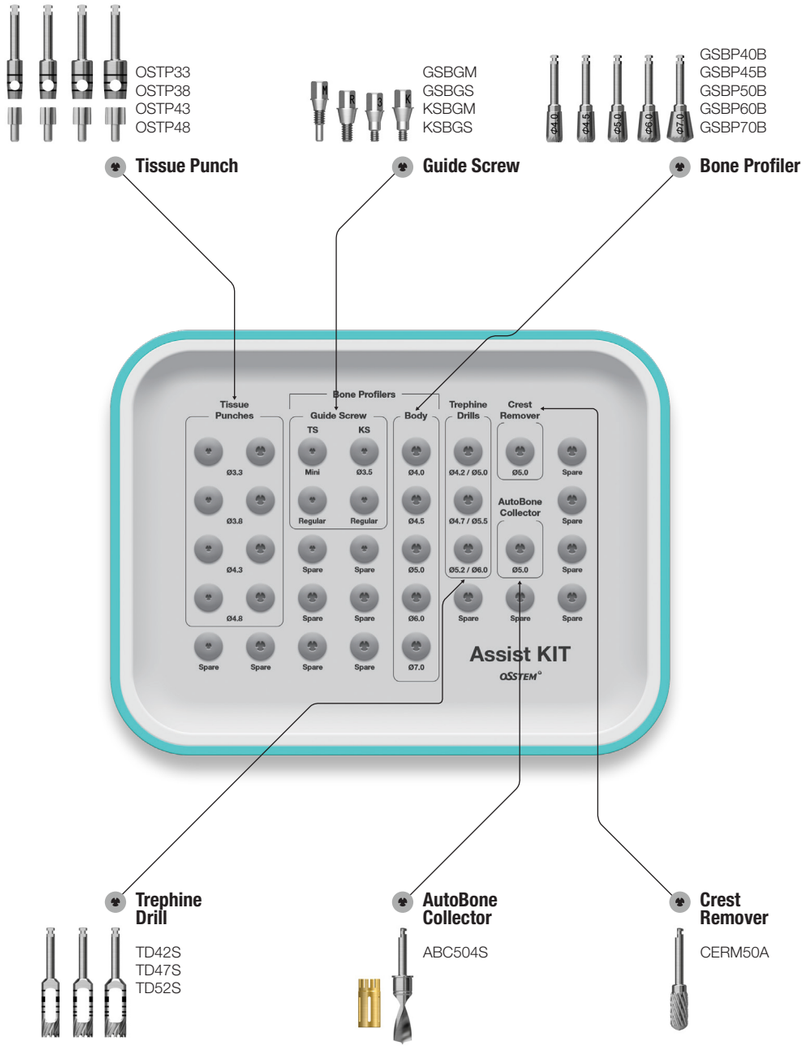
Ø5.0mm



Bone Quality	Twist Drill (Ø2.2)	Pilot Drill	485 Drill (F5.0)	485 Drill (F5.5)	Ø 5.0 Implant
Normal	▶	▶	▶		Implant Placement
Hard	▶	▶		▶	

Assist KIT (OAK) NEW 2025

- Bone profilers are only sold in the packing unit of “Guide Screw + Bone Profiler”
- For information on the order code for TS / KS Bone Profiler, please see page 402



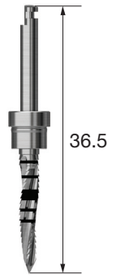
- More details on KIT components can be found in Surgical Instruments(222p~242p)

Surgical Instruments

123 Guide Drill

- A drill for forming a hole to facilitate initial drilling
- Facilitating drilling depth adjustment by assembling a stopper

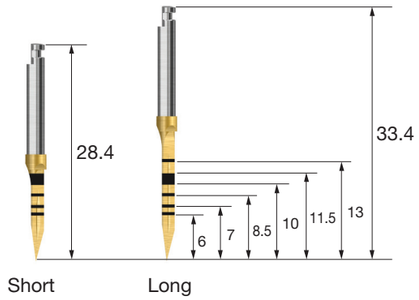
D	Ø2.0
	OGD2027L



Lance Drill (Guide Drill)

- Forming a hole to facilitate initial drilling
- Bone density determined through drilling

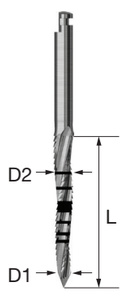
L	Short	Long
	AGDSC	AGDLC



Sidecut Drill

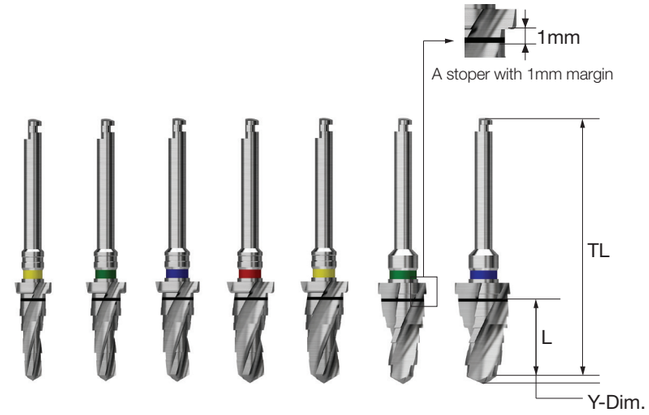
- A drill to remove the side parts with the cutting edge of the body
- Used for removing the ridge of a fresh extraction socket
- Facilitating site preparation of a fresh extraction socket

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



122 Taper Drill

- Included in 122 Taper KIT
- A dedicated taper drill for taper (III type) implants types available for each diameter and length
- Color coded handle indicates the implant diameter
- A drill slightly larger in diameter is used for removing cortical bone from hard bone
- F = Final drill

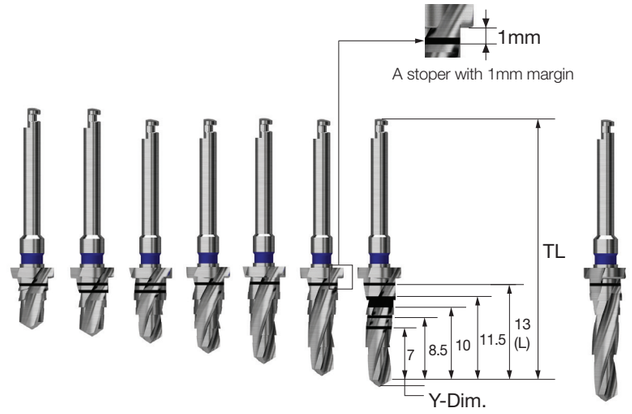


L	TL	F3.5	F4.0	F4.5	F5.0	F5.5	F6.0	F7.0
	Y-Dim.	0.7	0.9	1.0	1.0	1.0	1.0	1.0
4.0	29.5	122TPD**3504**	122TPD**4004**	122TPD**4504**	122TPD**5004**	122TPD**5504**	-	-
5.0	29.5	122TPD**3505**	122TPD**4005**	122TPD**4505**	122TPD**5005**	122TPD**5505**	-	-
6.0	30.5	122TPD**3506**	122TPD**4006**	122TPD**4506**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

Surgical Instruments

Taper Drill

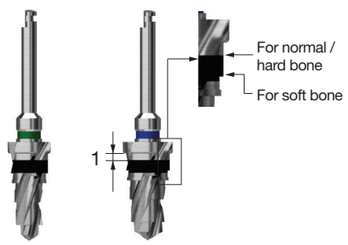
- Included in Taper KIT
- A dedicated taper drill for taper (III type) implants of each diameter and length
- A stopper drill with 1mm margin
- Color coded handle indicates the implant diameter
- F3.5: yellow, F4.0: green, F4.5: blue, F5.0: red, F5.5: yellow



L	TL	F3.5	F4.0	F4.5	F5.0	F5.5
	Y-Dim.	0.8	0.9	1.0	1.0	1.0
5.0	29.5	TPD3C**3505**	TPD3C**4005**	TPD3C**4505**	TPD3C**5005**	-
6.0	30.5	TPD3C**3506**	TPD3C**4006**	TPD3C**4506**	TPD3C**5006**	TPD3C**5506**
7.0	31.5	TPD3C**3507**	TPD3C**4007**	TPD3C**4507**	TPD3C**5007**	TPD3C**5507**
8.5	33	TPD3C**3508**	TPD3C**4008**	TPD3C**4508**	TPD3C**5008**	TPD3C**5508**
10	34.5	TPD3C**3510**	TPD3C**4010**	TPD3C**4510**	TPD3C**5010**	TPD3C**5510**
11.5	34.5	TPD3C**3511**	TPD3C**4011**	TPD3C**4511**	TPD3C**5011**	TPD3C**5511**
13	36	TPD3C**3513**	TPD3C**4013**	TPD3C**4513**	TPD3C**5013**	TPD3C**5513**
15	38	TPD3C**3515**	TPD3C**4015**	TPD3C**4515**	TPD3C**5015**	TPD3C**5515**
Color		Yellow	Green	Blue	Red	Yellow

Taper Ultra Drill

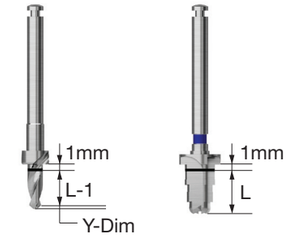
- Included in Taper Ultra KIT
- A dedicated taper drill for Taper Ultra-Wide implants of each diameter and length
- A stopper drill with 1mm margin
- Color coded handle indicates the implant diameter
- F = Final drill



L	F6.0	F7.0
6	TPD3C**6006**	TPD3C**7006**
7	TPD3C**6007**	TPD3C**7007**
8.5	TPD3C**6008**	TPD3C**7008**
10	TPD3C**6010**	TPD3C**7010**
11.5	TPD3C**6011**	TPD3C**7011**
13	TPD3C**6013**	TPD3C**7013**
Color	Green	Blue

485 Drill

- 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

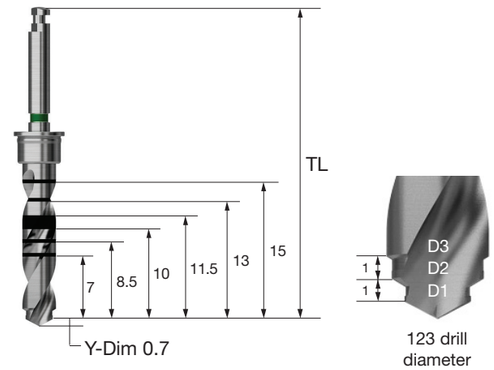


Twist drill 485 drill

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

123 Twist Drill

- Included in 123 Straight Simple KIT
- A straight drill to reduce the number of drilling (marking drill)
- A color-coded handle of the 123 Drill indicates the drill diameter and the main implant used
- Facilitating drilling depth adjustment by assembling a stopper
- Use of a stopper is necessary because of the difficulty of controlling the depth due to excellent cutting force
- F = Final drill

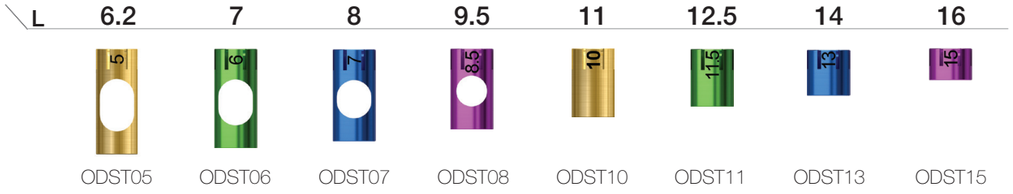


TL \ D1 / D2 / D3	F3.5(Ø2.2 / 3.0)	F4.0(Ø3.0 / 3.6)	F4.5(Ø3.0 / 3.6 / 4.1)	F5.0(Ø3.0 / 4.1 / 4.6)
34	2D2230FNS	2D3036FNS	2D3041FNS	2D3046FNS
40.4	2D2230FNL	2D3036FNL	2D3041FNL	2D3046FNL
Color	Yellow	Green	Blue	Red

Surgical Instruments

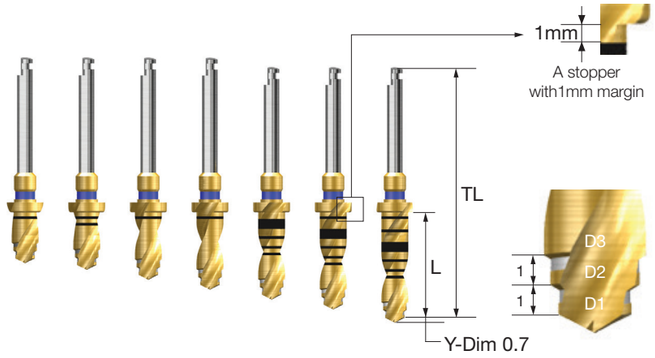
123 Drill Stopper

- Included in 123 Straight Simple KIT
- Number on the stopper indicates the protruding length of the tip when assembled to a drill or other instruments
- Color coded by length to facilitate estimation of the length and repositioning of the KIT



123 Twist Drill (Stopper Drill)

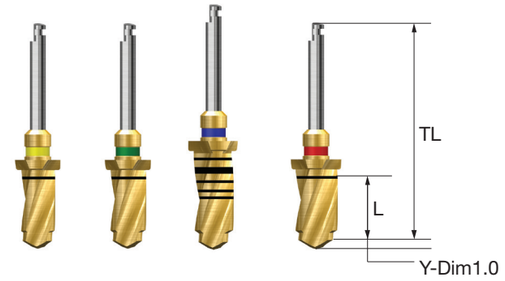
- Included in 123 Straight KIT/ 123 Straight Full KIT
- A straight drill to reduce the number of drilling (with stopper)
- A color-coded handle of the 123 Drill indicates the drill diameter and the main implant used
- F = Final drill



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

123 Ultra Twist Drill

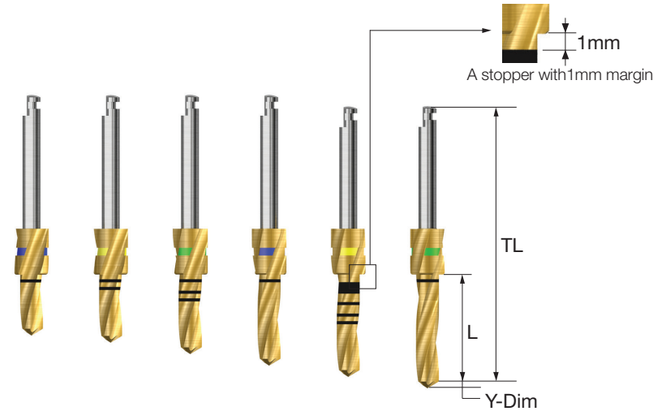
- Included in 123 Straight KIT/123 Straight Full KIT
- A 2-stage drill with functions of both Pilot Drill and Twist Drill
- A straight drill to reduce the number of drilling (with stopper)
- A dedicated drill is used for F7.0 implant in soft bone
- F = Final drill



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

Twist Drill (Stopper Drill)

- 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.

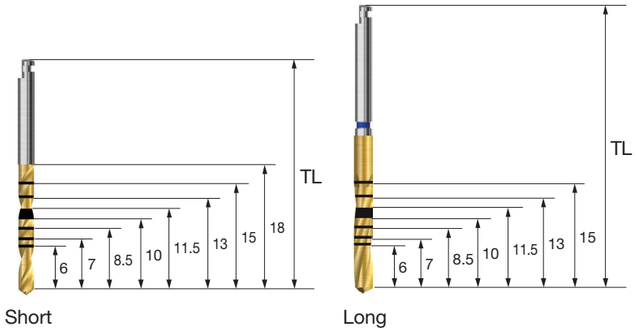


L	TL	D	Ø2.2	Ø3.0	Ø3.3	Ø3.6	Ø3.8	Ø4.1	Ø4.3	Ø4.6
	Y-Dim		0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0
6	30.5		2D2206LC	3D3006LC	-	-	3D3806LC	-	-	-
7	31.5		2D2207LC01	3D3007LC01	-	-	3D3807LC01	-	-	-
8.5	33		2D2208LC01	3D3008LC01	-	-	3D3808LC01	-	-	-
10	34.5		2D2210LC01	3D3010LC01	-	-	3D3810LC01	-	-	-
11.5	34.5		2D2211LC01	3D3011LC01	3D3311LC01	3D3611LC01	3D3811LC01	3D4111LC01	3D4311LC01	3D4611LC01
13	36		2D2213LC01	3D3013LC01	-	-	3D3813LC01	-	-	-

Surgical Instruments

Twist Drill (Non Stopper Drill)

- 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

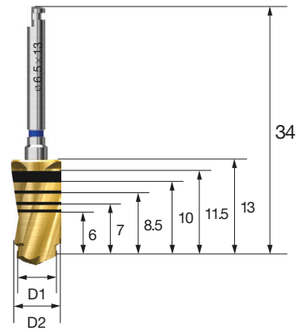


TL \ D	Ø1.5	Ø2.0	Ø2.2	Ø2.7	Ø3.0	Ø3.3
33	2D1518FNLC	2D2018FNLC	2D2218FNLC	3D2718FNLC	3D3018FNLC	3D3318FNLC
41	-	-	2D2215FNLC01	3D2715FNLC01	3D3015FNLC01	3D3315FNLC01

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

Direct Drill

- Included in Ultra KIT
- A 2-stage drill with functions of both Pilot Drill and Twist Drill
- Enabling final drilling without pilot drilling
- Increased primary stability in a fresh extraction socket with reduced dead space in the apex

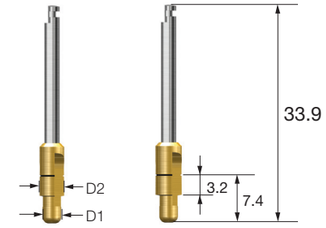


D1 / D2	Ø4.6 / 5.2	Ø4.6 / 5.5	Ø5.5 / 6.2	Ø5.5 / 6.5
	3D5213FNLC	3D5513FNLC	3D6213FNLC	3D6513FNLC

Long Shank Pilot Drill

- Included in New Hanaro KIT
- Used for adjusting the path of the drilling hole
- Maintains the previous drilling path for the next drilling

D1 / D2	Ø2.0 / 2.7	Ø2.0 / 3.0	Ø3.0 / 3.8	Ø3.0 / 4.1
	APD270C	APD300C	APD380C	APD410C



Taper Cortical Drill
(Taper Implant TSIII, SSIII)

- Included in Taper KIT
- A drill used for removing cortical bone from hard bone (used right after the use of Taper Drill)
- A dedicated drill equipped for each implant diameter
- F3.5~5.0 drill marking line : bottom line for placing implants of 8.5mm or smaller, and top line for implants of 10mm or larger
- F5.5 drill marking line : bottom line for placing implants of 6mm or smaller, midline for 7mm implants, and top line for implants of 8.5mm or larger
- Drilling up to the lower marking line recommended
- F = Final drill

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

Cortical Drill (Ultra-Wide)

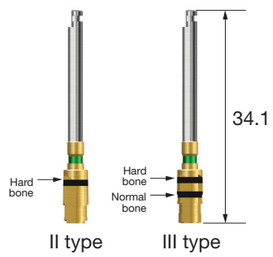
- Included in Ultra KIT, 122 Taper / Taper KIT (for ultra-wide)
- A drill used for removing cortical bone from hard bone (for ultra-wide)
- A dedicated drill equipped for each implant diameter
- Drilling up to the lower marking line recommended
- F = Final drill

F6.0	F7.0
CD4C60	CD4C70

Surgical Instruments

123 Cortical Drill

- Included in 123 Straight Simple KIT, 123 Straight KIT and 123 Straight Full KIT
- A drill used for removing cortical bone from hard bone
- Drilling up to the lower marking line recommended
- II type marking line : for hard bone
- III type marking line : bottom line for normal bone, and top line for hard bone
- IV type marking line : for normal bone
- A color-coded handle of the 123 Drill indicates the drill diameter and the main implant used
- F = Final drill



Type	F3.5	F4.0	F4.5	F5.0
II	O2CD**35**	O2CD**40**	O2CD**45**	O2CD**50**
III	O3CD**35**	O3CD**40**	O3CD**45**	O3CD**50**
Color	Yellow	Green	Blue	Red

Cortical Drill 2 (TSII, SSII)

- Included in New Hanaro KIT
- A drill used for removing cortical bone from hard bone (For II type)
- A dedicated drill equipped for each implant diameter
- Drilling up to the lower marking line recommended
- F = Final drill

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

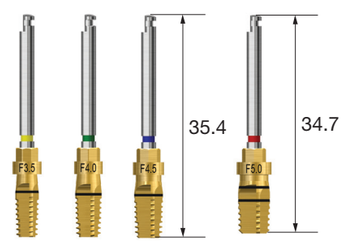
Cortical Drill 3 (Taper Implant TSIII, SSIII)

- Included in New Hanaro KIT
- A drill used for expanding the cortical bone after the use of Straight Drill
- Used after forming the final drill hole in normal or harder bone
- A dedicated drill equipped for each implant diameter
- Marking line: bottom line for normal bone, and top line for hard bone
- Drilling up to the lower marking line recommended

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

Tapered Implant Tap (Taper Implant TSIII, SSIII)

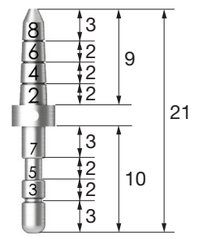
- A dedicated tap for Tapered Implant (III type)
- Used for hard bones, forming the implant thread shape
- A torque wrench is used after connecting to the engine (25rpm recommended) or a mount extension
- Tapping up to the bottom marking line recommended (For F5.0, the bottom line for placing 7.0mm or smaller implants, and top line for 8.5mm or greater implants)
- F = Final drill



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

Parallel Pin (122 Taper Drill)

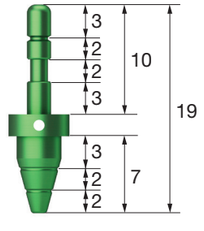
- Included in 122 Taper KIT
- A dedicated parallel pin for 122 Taper Drill
- Used for checking the position and direction of bone preparation
- Bottom part for the Ø2.2 drill, and top part for the guide drill



APP2227

Parallel Pin (Taper Drill)

- Included in 122 Taper KIT and Taper KIT
- A dedicated parallel pin for Taper Drill
- Used for checking the position and direction of bone preparation
- Bottom part for implant diameter drill, top part for Initial Drill
- Color coded according to the implant diameter (F3.5 : yellow, F4.0 : green, F4.5 : blue, F5.0 : silver)



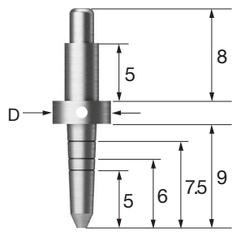
F3.5	F4.0	F4.5	F5.0
TPP3522	TPP4022	TPP4522	TPP5022

Surgical Instruments

Parallel Pin (123 Drill)

- Included in 123 Straight Simple KIT, 123 Straight KIT and 123 Straight Full KIT
- Used for checking the position and direction of bone preparation
- Bottom part for Initial Drill, top part for F3.5(Ø2.2/3.0) Drill

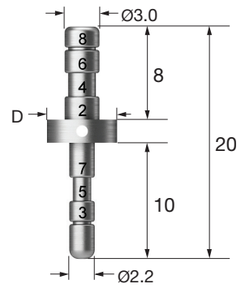
D	Ø4.0	Ø5.0
	OPLP400	OPLP500



Parallel Pin

- Included in New Hanaro KIT
- Used for checking the position and direction of bone preparation

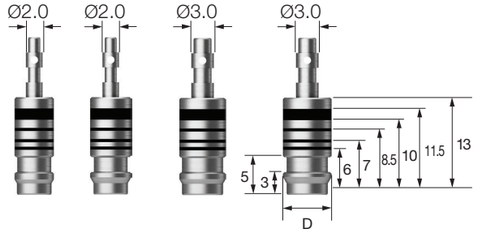
D	Ø4.0	Ø5.0	Ø6.0	Full Set
	APP400	APP500	APP600	APPS



Trial Pin (Ultra-wide)

- 123 straight full kit, Included in Ultra KIT
- Checking the internal width and depth of a fresh extraction socket or a failed implant socket
- Checking the drilling depth after using Direct Drill as the final drill
- Used as Parallel Pin

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

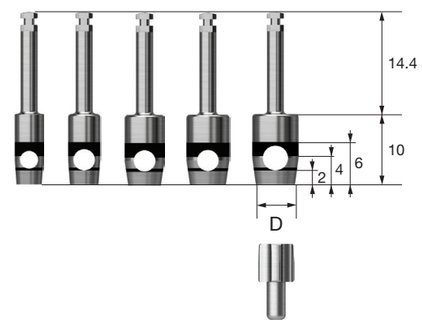


Tissue Punch

- Included in Assist KIT
- Instrument used for flapless surgery
- Marked at 2mm intervals for measuring gingival height
- Packing unit : tissue punch + guide pin

※ Using Tissue Punch with a diameter smaller by 0.7~1.5mm than the Healing Abutment is recommended

- Recommended drilling speed: 1,000~ 1,200rpm



D	Ø3.3	Ø3.8	Ø4.3	Ø4.8	Ø5.3
	OSTP33	OSTP38	OSTP43	OSTP48	OSTP53

TS	Ø 4.0/4.5	Ø 4.5/5.0	Ø 5.0	Ø 6.0	Ø 6.0
SS	-	Ø 4.8	-	Ø 6.0	Ø 6.0
US	Ø 4.0	Ø 5.0	Ø 5.0	Ø 6.0	Ø 6.0

For healing abutment applications

Bone Profiler (TS)

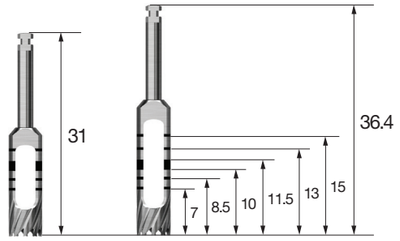
- Included in Assist KIT
- Used for removing bone around the implant for the 1st and 2nd stage surgery
- Used by connecting Guide Screw to the implant and removing the bone to adjust the shape of the Healing Abutment
- Guide Screw protecting the morse taper entrance of the implant
- Packing unit : bone profiler + guide screw
- Recommended drilling speed: 50rpm
- C = Connection

C / D (Healing Abutment)	Ø4.0	Ø4.5	Ø5.0	Ø6.0	Ø7.0
TS Mini / Regular	GSBP40 Mini+Regular guide screw	GSBP45 Mini+Regular guide screw	GSBP50 Regular guide screw	GSBP60 Regular guide screw	GSBP70 Regular guide screw

Surgical Instruments

Trephine Drill

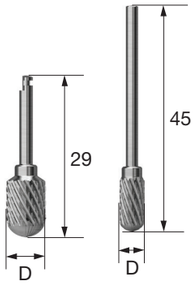
- Included in Assist KIT
- Used for bone collection or for removing damaged or failed implants
- Used for removing septal bone
- Used as an Initial Drill for Ultra-wide implants
- Recommended drilling speed: 1,000~1,200rpm



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

Crest Remover

- Included in Assist KIT
- 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

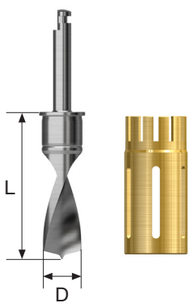


L \ D	Ø5.0	Ø7.0
29	CERM50A	CERM70A
45	CERM50S	-

AutoBone Collector®

- Included in Assist KIT
- 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 it as is with autogenous bone kept in the stopper)



Drill

L \ D	Ø3.0	Ø4.0	Ø5.0	Ø6.0
Short (18.94)	ABC**304S**	ABC**404S**	ABC**504S**	ABC**604S**
Long (21.94)	ABC**304L**	ABC**404L**	ABC**504L**	ABC**604L**

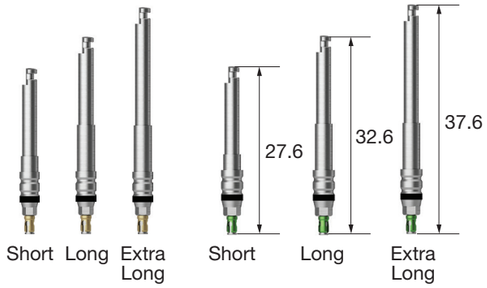
Drill Extension

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

L (Extention)	16.9
	ODE

TS NoMount Driver

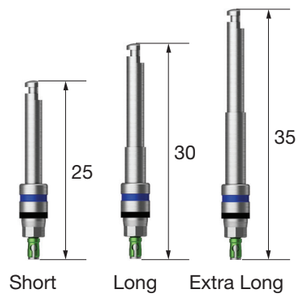
- Driver directly connected to the fixture upon placing with a surgical hand piece
- C = Connection



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

SS NoMount Driver

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



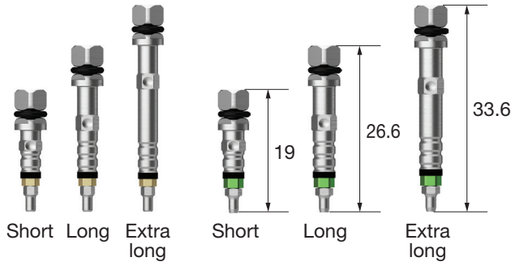
L \ C	Regular / Wide
Short	SSNMDS
Long	SSNMDL
Ex.Long	SSNMDE

Surgical Instruments

TS NoMount Torque Driver

- Driver directly connected to the implant upon placing with a wrench
- Make sure to check and confirm proper assembly before use
  (Risk of fracture even at low torque in case of inadequate assembly)
- Note that it cannot be removed in case of fracture
- C = Connection

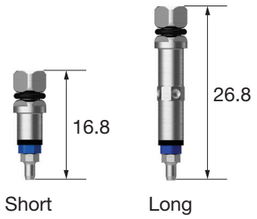
L \ C	Mini	Regular
Short	GSNMT32S	GSNMT35S
Long	GSNMT32L	GSNMT35L
Ex.Long	GSNMT32E	GSNMT35E



SS NoMount Torque Driver

- Driver directly connected to the implant upon placing with a wrench
- Make sure to check and confirm proper assembly before use
  (Risk of fracture even at low torque in case of inadequate assembly)
- Note that it cannot be removed in case of fracture
- C = Connection

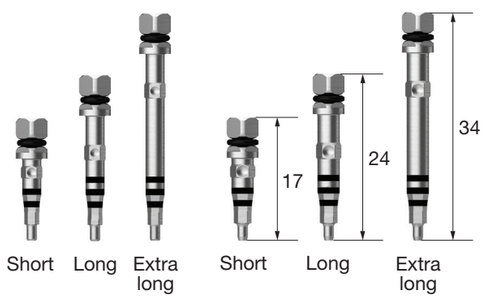
L \ C	Regular / Wide
Short	SSNMT39S
Long	SSNMT39L



TS Implant Driver

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

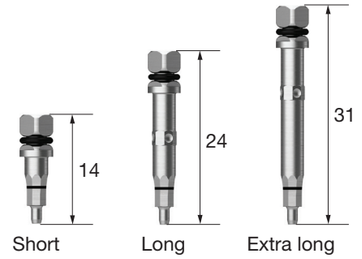
L \ C	Mini	Regular
Short	GSMFDS	GSRFDS
Long	GSMFDL	GSRFDL
Ex.Long	GSMFDE	GSRFDE



SS Implant Driver

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

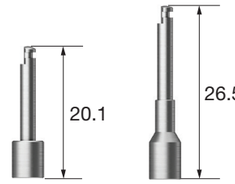
L \ C	Regular / Wide
Short	SSRFDS
Long	SSRFDL
Ex.Long	SSRFDE



Simple Mount Driver

- Used by assembling to the simple mount for implant placement

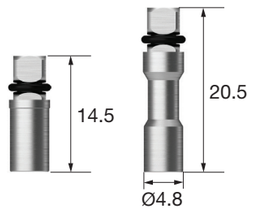
L	
Short	ASMDS
Long	ASMDL



Simple Mount Extension

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

L	
Short	ASMES
Long	ASMEL



Torque Extension

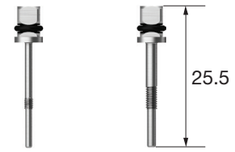
- Extending the length of the instrument used by connecting to a wrench (extension by 10mm)

OTE

Surgical Instruments

Removal Tool (Implant Mount)

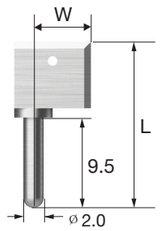
- Used after removing mount screw in case of jamming between the implant and mount
- Used by assembling to the driver handle and torque wrench
- Removing mount by rotating forwarding after inserting vertically
- App = Application



App	Mini (TS)	Regular (TS,SS) / Wide (SS)
	ERFM	HRFR

Positioning Guide

- Instrument facilitating drilling interval setting for implant placement
- Placed into the hole for use after initial drilling
- Packing unit : individual component or in a set



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

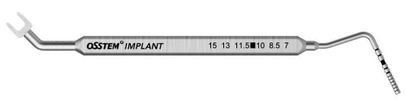
Tissue Height Gauge (TS)

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

HGTSHG

Depth Gauge

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



OSDG

Simple Open Wrench

- Used for removing a simple mount from weak bone
- Easy intraoral placement with a neck angle of 30°

ASOW

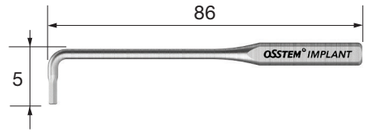
Ratchet Wrench

- A dedicated wrench for anti-reverse procedure
- Excessive torque exertion may result in internal damage to bone or implant

CITQW-1185A

L-Wrench

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



LWC

Torque Wrench (Spring Type)

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

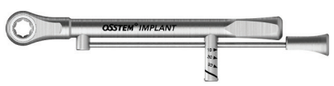
TW30

Surgical Instruments

Torque Wrench (Bar Type)

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

TW30B



Torque Wrench Set

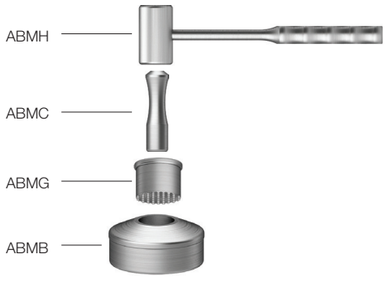
- A set of a two-way Torque Wrench and a Torque Connector
  - Applying forward/reverse torque by rotating the Torque Wrench handle without removing the connector
- Compatible with the Machine Driver connector of OSSTEM
- Applying torque according to the line marked with the torque value to be applied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

MX30

Bone Mill

- Forming particulate bone with collected autogenous bone

ABM



Anterior Hand Driver (Implant)

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

AHDI

Torque Handle

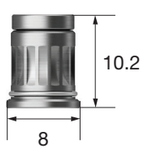
- Manual instrument used by connecting to the contra-angle hand piece (1:1 gear ratio for hand piece)
- Used for tightening screws such as Healing Abutment, Cover Screw, Abutment Screw, and Orthodontic Screw (used for temporary tightening of Abutment Screw, which requires final tightening with a Torque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

TQHD

Torque Connector

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

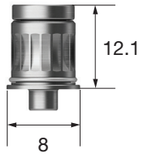
ORC



Machine Driver Connector

- Connector for connecting the Machine Driver with a two-way Torque Wrench

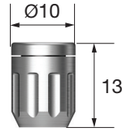
OMDC



Driver Handle

- Used by connecting to the Torque Driver

TIDHC



Surgical Instruments

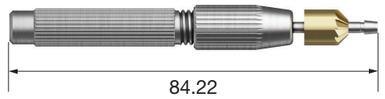
Machine Driver Handle

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

OMDH

Finishing Reamer Set

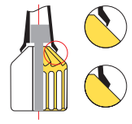
- Used for removing lip from the inside of the casted body after casting plastic coping



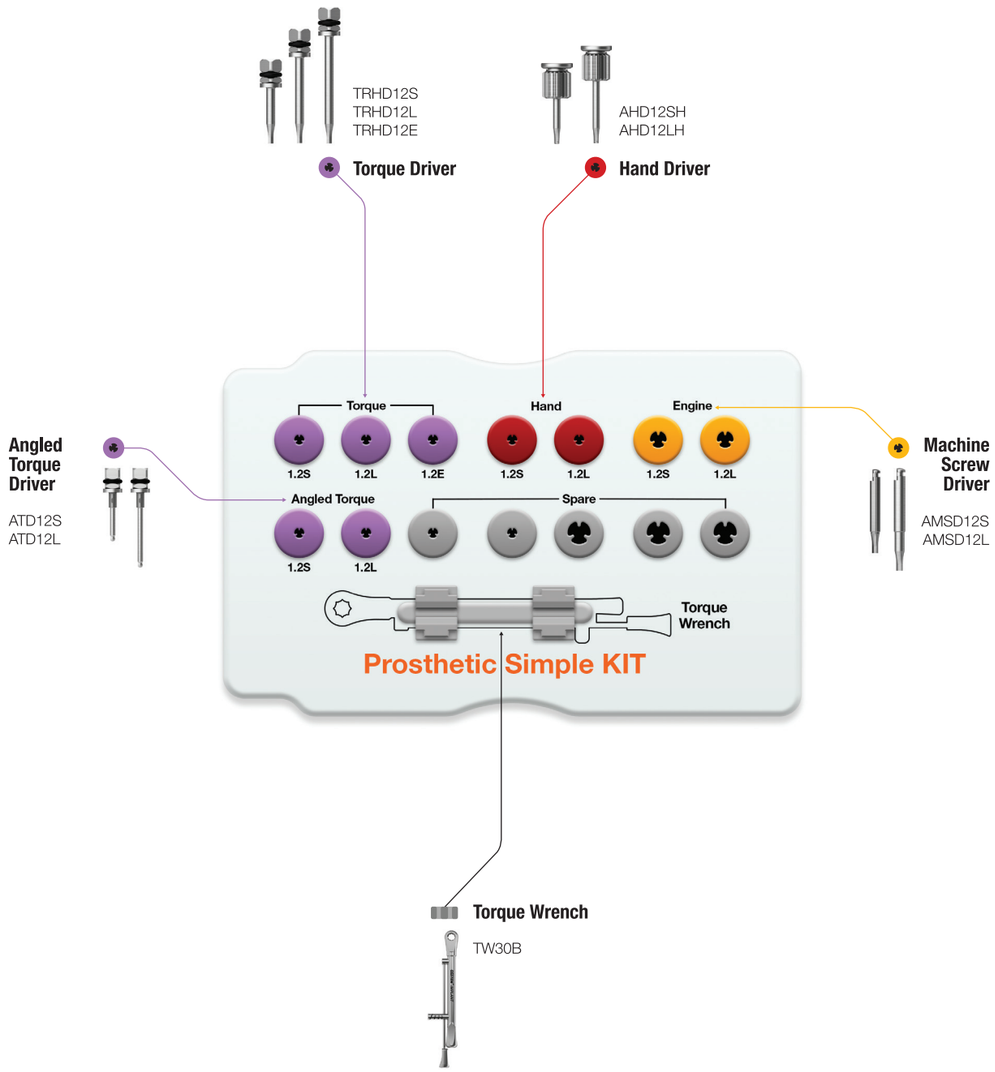
FRSC

Reamer user guide

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



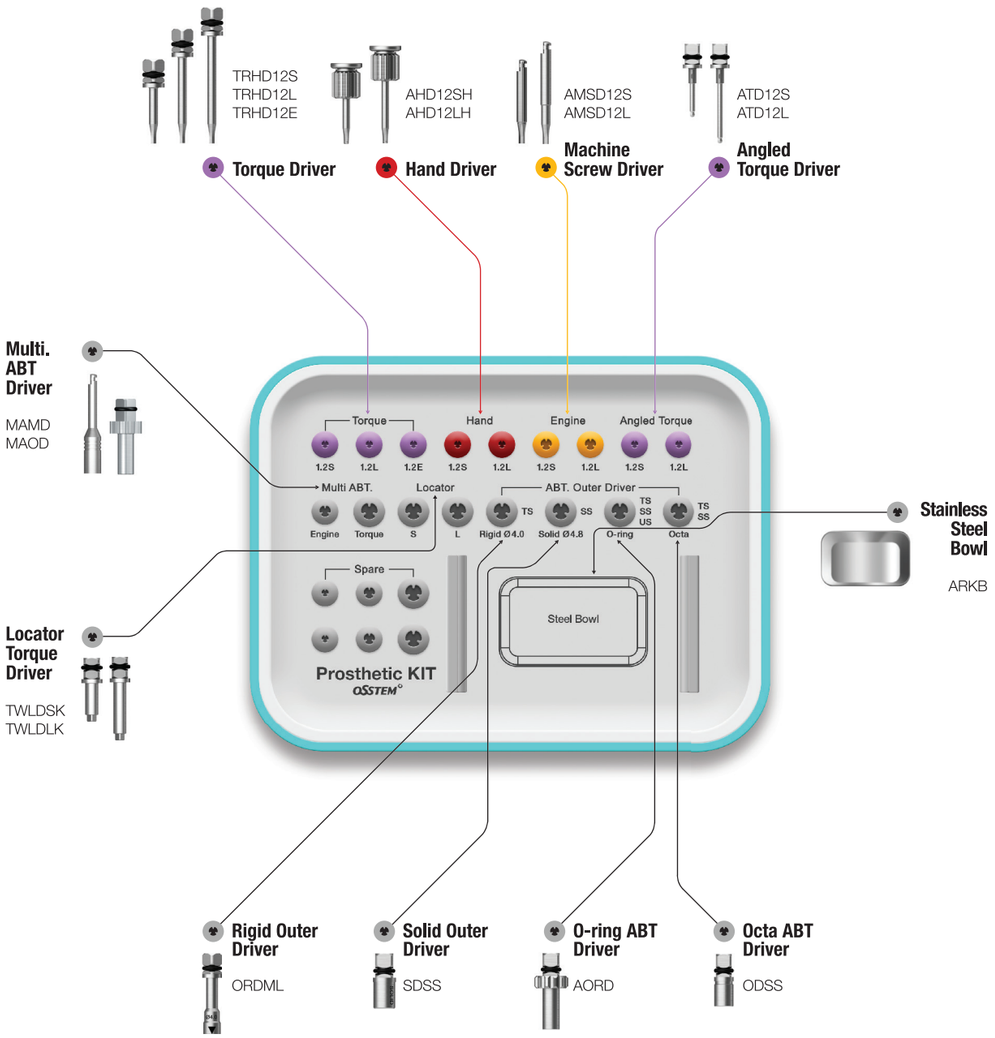
Prosthetic Simple KIT (OPSK)



Prosthetic KIT (OPK)

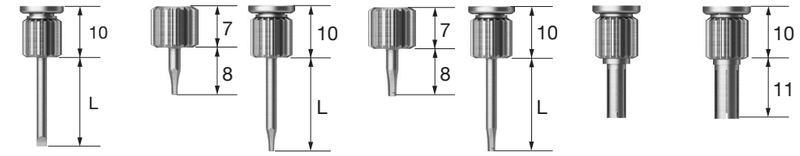
Top panel components

Torque Wrench
TW30B



Hand Driver

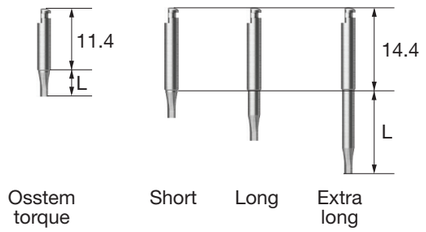
- Manual driver
- Tip holding feature (except internal hex type)
- Internal hex type length:11



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

Machine Screw Driver

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



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

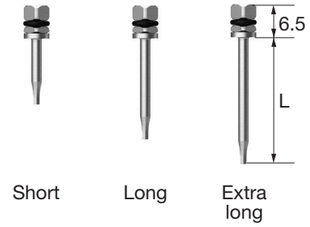
Application

For driver applications
(Commonly used for Hand, Machine Screw, and Torque Drivers)

Cover screw (US mini)	Healing abutment, Gold/NP-Cast abutment, Cemented abutment screw, Mount screw	Esthetic abutment screw Regular, Esthetic-low abutment screw, standard	Wide esthetic-low abutment screw

Torque Driver

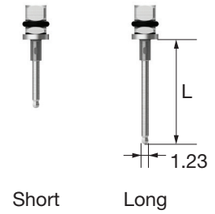
- A driver for Torque Wrench assembly
- Tip holding feature
- Compliance to the recommended torque is required(excessive torque may result in fracture)
- Risk of fracture even at low torque in case of inadequate assembly
- Exerting torque with the driver straight up is required (with no tilting)
- Be sure to replace any bent tips due to extended use or excessive torque application



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

Angled Torque Driver

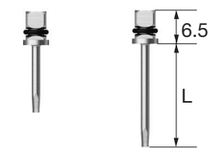
- A driver for Torque Wrench assembly
- No holding feature
- Recommended tightening torque: 30Ncm (excessive torque may result in fracture)
- Do not remove the tube preventing debris upon fracture
- Recommended number of use cycles: 10 times
- Set : 3ea



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

Repair Torque Driver

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

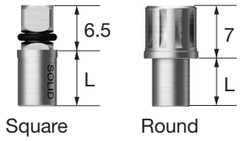


L \ Type	1.2 Hex
Short (13)	TRHD12SR
Long (20)	TRHD12LR

Prosthetic KIT Surgical Instruments

Solid Abutment Driver

- A dedicated driver for Solid Abutment
- Applying torque after inserting the groove of the Solid Abutment to the part of the driver with a triangular marking
- Recommended tightening torque: 30Ncm



Square Round

Regular

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

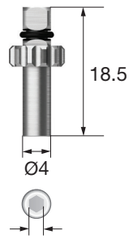
Wide

L \ Type	Square
Short (10)	SD60S

O-ring Abutment Driver

- A dedicated driver for O-ring Abutment

Small	Normal
STAOD	AORD



Small : 2.25 / Normal : 2.4

Rigid Outer Driver

- A dedicated driver for Rigid Abutment
- Recommended tightening torque: 30Ncm

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

Excellent Solid Abutment Driver

- A dedicated driver for Excellent Solid Abutment
- Applying torque after inserting the groove of the Excellent Solid Abutment to the part of the driver with a triangular marking
- Recommended tightening torque: 30Ncm

Square Round

Regular

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

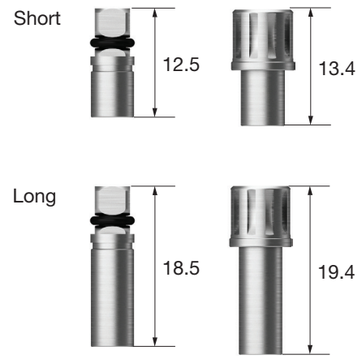
Wide

L \ Type	Square
Short (10)	ESD60S

Octa Abutment Driver

- A dedicated driver for Octa Abutment
- Recommended tightening torque: 30Ncm

L \ Type	Square	Round
Short	ODSS	ODRS
Long	ODSL	ODRL



Prosthetic KIT Surgical Instruments

Multi Abutment Machine Driver

- A dedicated Machine Driver for Multi Abutment

MAMD

Abutment Holder

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

OABH

Abutment Positioning Driver

- 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

(Unit : mm)

Range of use	Short					Long				
H + G/H	≤9					≥10				
	5	6	7	8	9	10	11	12	13	14

Short	Long
OAPDS	OAPDL

Multi Abutment Outer Driver

- A dedicated Torque Driver for Multi Abutment

MAOD

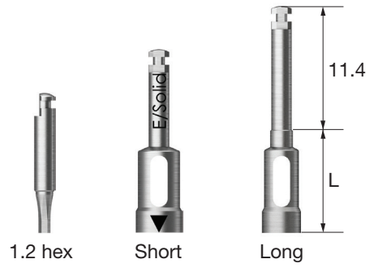
Locator® Torque Driver

- A dedicated Torque Driver for Locator Abutment

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

Osstem Torque Driver

- Dedicated driver for Osstem Torque, which may not be compatible (connected or separated) with a general hand piece
- Used after matching the triangle on the outside of the driver with the groove or side of the abutment
- Solid and Excellent Solid Driver are only compatible with Ø4.8
- 1.2 hex type L : 5

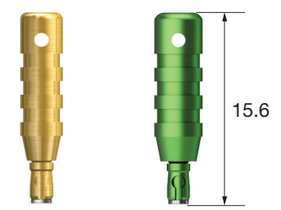


L / Type	1.2 Hex	Rigid 4.0	Rigid 4.5	Rigid 5.0	Rigid 6.0	Solid	Excellent Solid
Short (10)	OTH12S	OTR40S	OTR45S	OTR50S	OTR60S	OTS48S	OTE48S
NEW 2025 **Long** (15)	-	OTR40L	OTR45L	OTR50L	OTR60L	OTS48L	OTE48L

Path Probe (TS)

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

C	Mini	Regular
	GIPAP-3016A	GIPAP-3516A



Reamer Bite

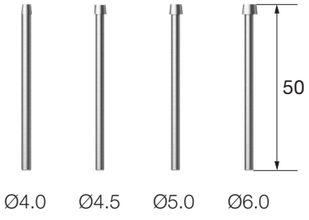
- Cutting edge to remove lip from the inside of the casted body after casting plastic coping

FRBC

Reamer Tip (Rigid Abutment)

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

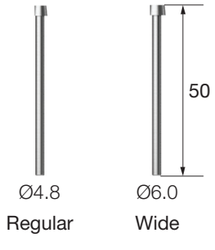
D	Ø4.0	Ø4.5	Ø5.0	Ø6.0
	GSRFRT400	GSRFRT450	GSRFRT500	GSRFRT600



Reamer Tip (Solid, Excellent Solid Abutment)

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

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



CAS KIT (HCRSNK)

Applicable Products TSIII / IV SSIII

Top panel components

Hydraulic Membrane Lifter Tube
SNMT

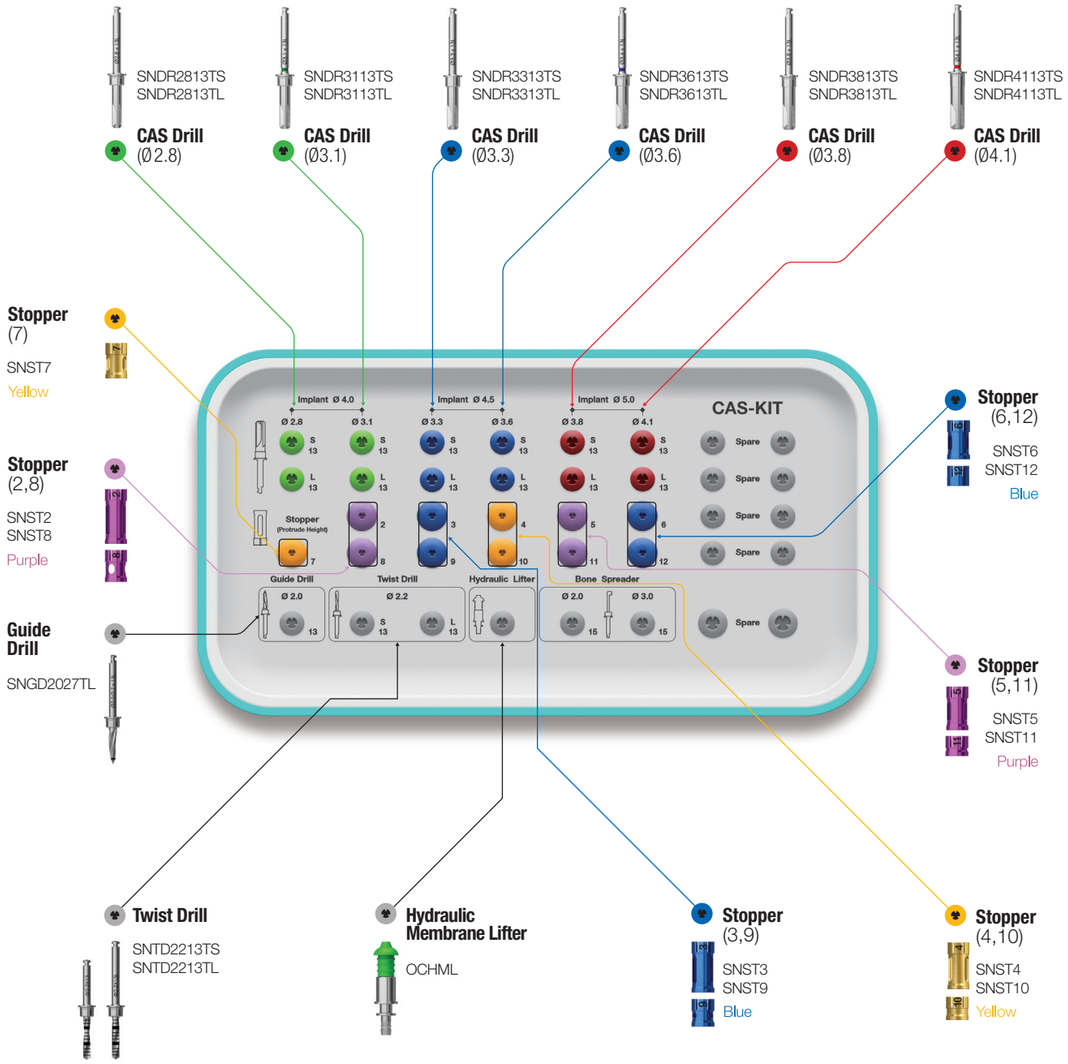
Depth Gauge
SNDG

Lower panel components

Bone Carrier Head
SNBCH30

Bone Carrier
SNBCS35

Bone Condenser
SNBC1120

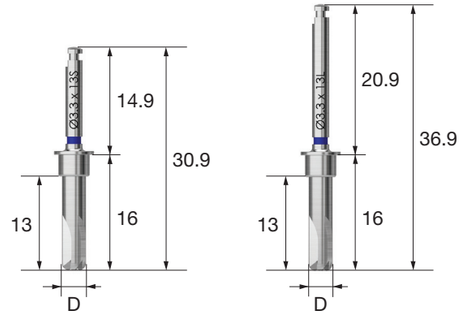


• For ordering codes of single item of CAS KIT, see 255~258 Page

CAS KIT Surgical Instruments

CAS Drill

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

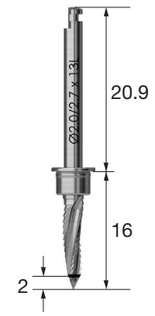


L \ D	Ø2.8	Ø3.1	Ø3.3	Ø3.6	Ø3.8	Ø4.1
Short	SNDR2813TS	SNDR3113TS	SNDR3313TS	SNDR3613TS	SNDR3813TS	SNDR4113TS
Long	SNDR2813TL	SNDR3113TL	SNDR3313TL	SNDR3613TL	SNDR3813TL	SNDR4113TL

Guide Drill

- Drill for marking of the implant placement position
- Used for removing side walls in a fresh extraction socket with formation of side edges
- Marking line at 2mm from the tip

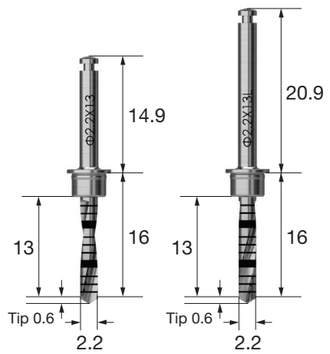
D	Ø2.0 / 2.7
	SNGD2027TL



Twist Drill (Ø2.2)

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

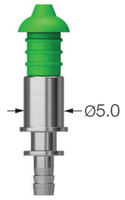
L \ D	Ø2.2
Short	SNTD2213TS
Long	SNTD2213TL



CAS KIT Surgical Instruments

Hydraulic Membrane Lifter Set

- Instrument for hydraulic lifting of sinus membrane
- Winged design with optimized sealing



OCHML

Stopper

- Number on the stopper indicates the protruding length of the tip when assembled to a drill or other instruments
- Color coded by length
- Number of uses for the drill and stopper: 50 times

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

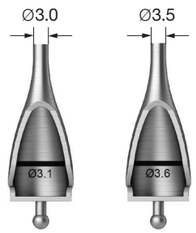
Bone Carrier

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

SNBCS35

Bone Carrier Head

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



D	Ø3.1	Ø3.6
	SNBCH30	SNBCH35

Bone Condenser

- Instrument to push in the bone material into the sinus

D	Ø1.1 / 2.0
	SNBC1120

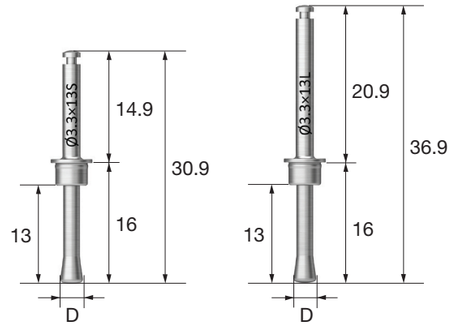
Hydraulic Membrane Lifter Tube

- Connected to the hydraulic membrane lifter

SNMT

Membrane Lifter

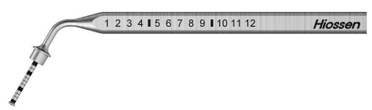
- Safe lifting of the membrane due to the round shape with no cutting edge
- Lifter selected according to the CAS-Drill diameter as membrane lifting is performed after using the CAS-Drill (head diameter is CAS Drill diameter - 0.2mm)
- CAS Stopper assembled and used for adjusting the depth
- Recommended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



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

Depth Gauge

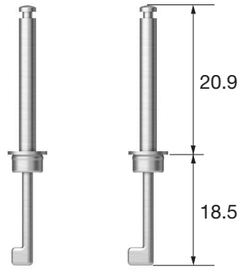
- For checking internal lifting of the sinus and measuring the remaining bone depth



SNDG

Bone Spreader

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



D	Ø2.0	Ø3.0
	SNBS2015T	SNBS3015T

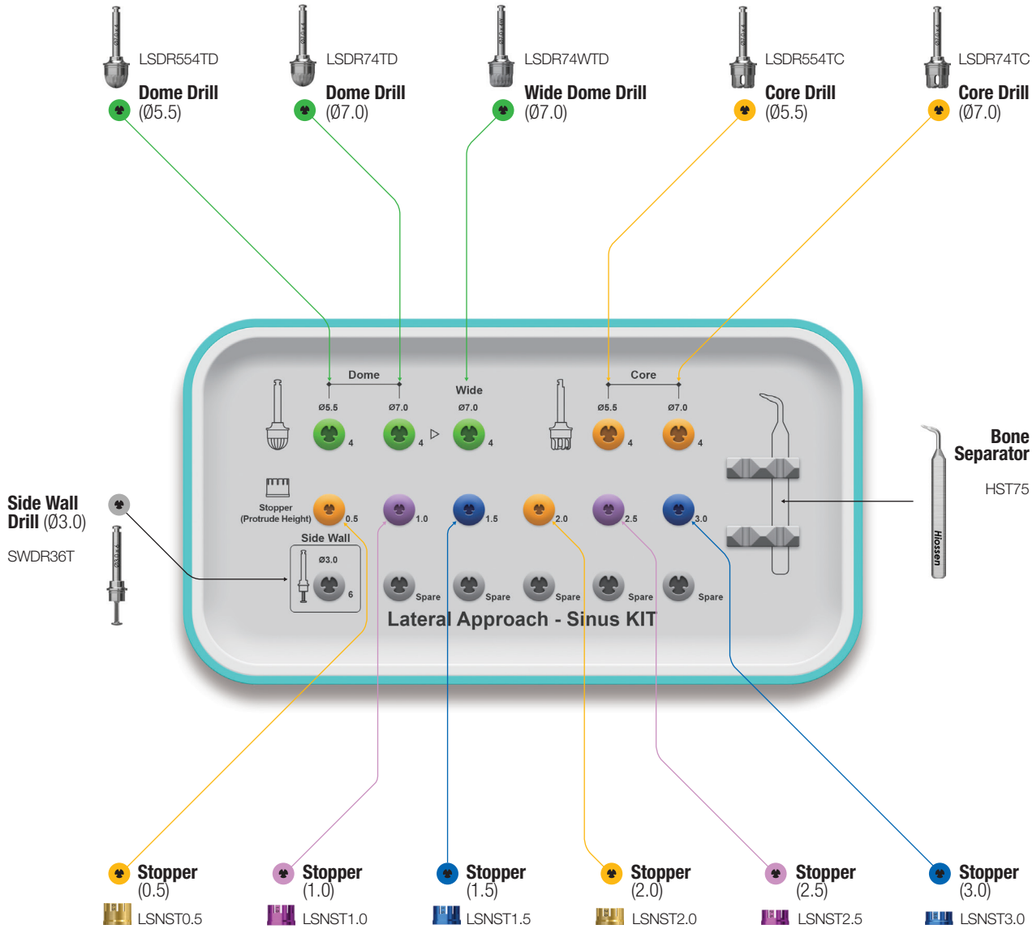
Y-Connector

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

SNYCT

LAS KIT (HLRSNK)

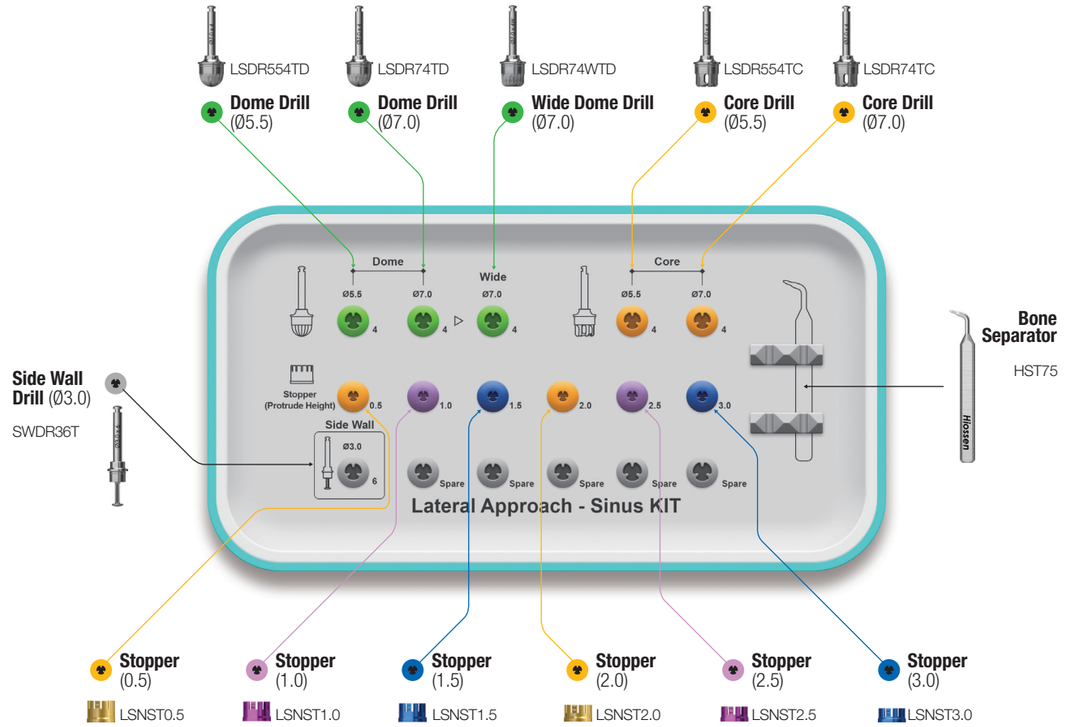
- Lateral Approach - Sinus KIT (LAS KIT) : KIT optimized for lateral approach in maxillary sinus lift procedure
- Including dome drill and core drill for safe formation of a lateral window; and Ø5.5/7.0 diameters available according to the size of the window
- Depth can be adjusted by mounting a stopper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



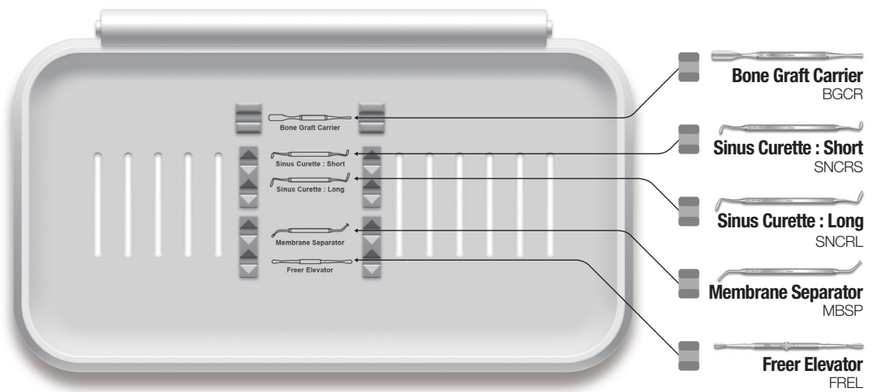
- For ordering codes of single items of LAS KIT, see pages 262-263

LAS Full KIT (HLRSNKP)

- KIT with 6 additional sinus lift instruments to LAS KIT



LAS KIT Plus Lower Plate



- For ordering codes of single items of LAS KIT, see pages 262-263
- Lower panel components of LAS Full KIT are the same as those of Sinus KIT (See page 310)

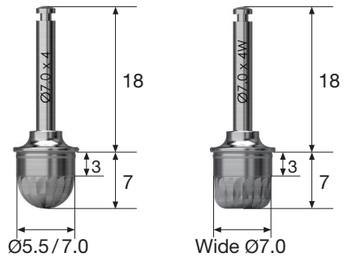
LAS KIT Surgical Instruments

Dome Drill

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

※ Over-drilling may result in damage to the membrane

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

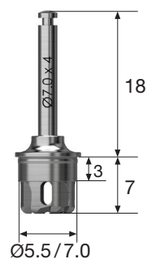


Core Drill

- Forming a window while forming the bone lid
- Excellent cutting force and membrane stability owing to the CAS Drill design concept
- Recommended drilling speed: 1,200~1,500rpm

※ Over-drilling may result in damage to the membrane

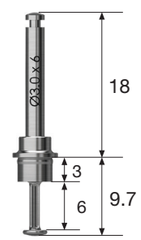
L \ D	Ø5.5	Ø7.0
25	LSDR554TC	LSDR74TC



Side Wall Drill

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

SWDR36T



Side Cutting edge height (mm)	1.0	2.0	3.0	4.0	5.0
CAS KIT stopper (mm)	8.0	9.0	10	11	12
Side wall drill + CAS KIT stopper					

※ Depth adjusted by the use of CAS KIT Stopper in common

Bone Separator

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

HST75

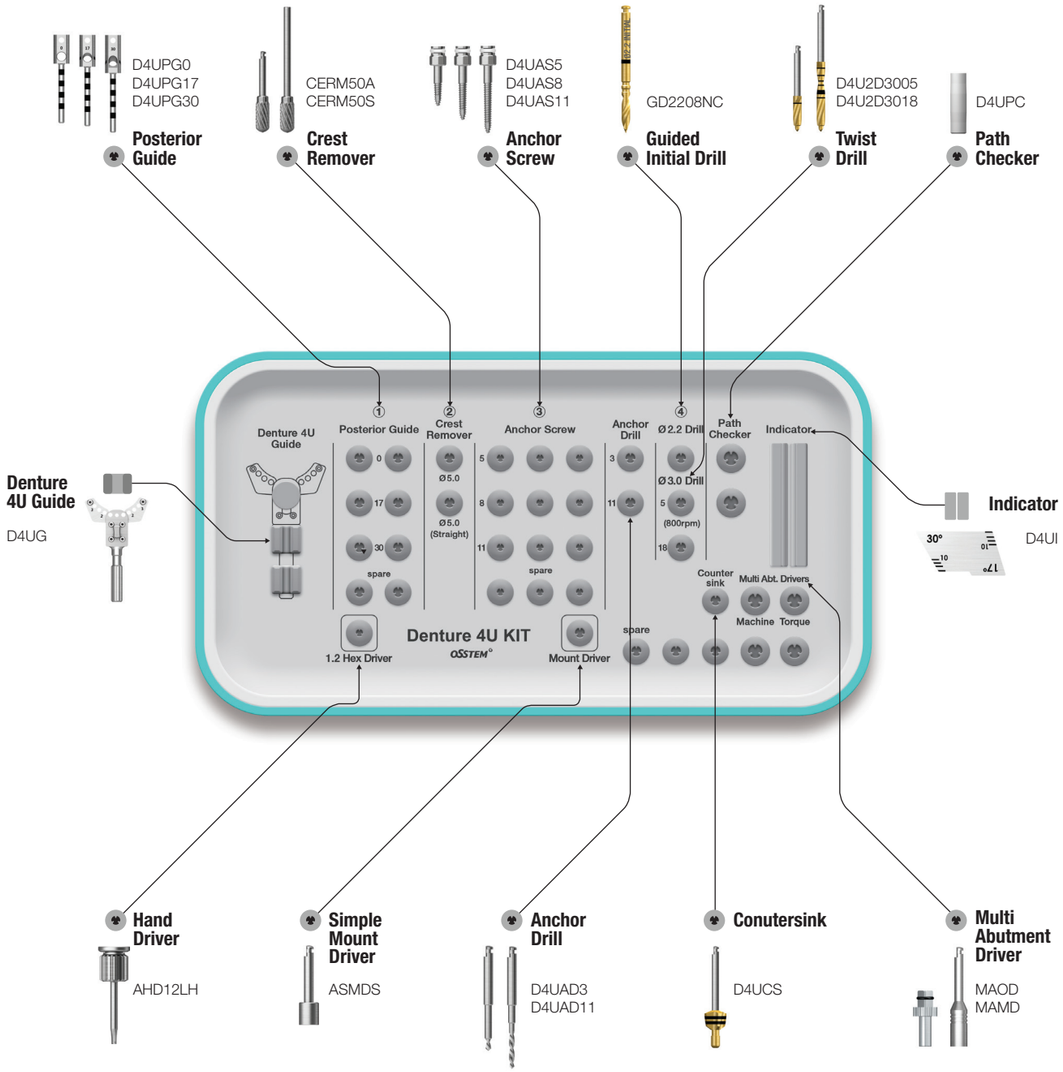
Stopper

- Number on the stopper indicates the protruding length of the tip when assembled to a drill or other instruments
- Color coded by length
- Number of uses for the drill and stopper: 50 times

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

Denture 4U KIT (OD4UK)

Applicable Products TSII / III



Denture 4U KIT Surgical Instruments

Denture 4U Guide

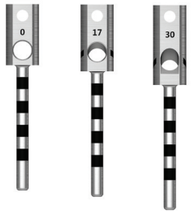
- Guide for stable and accurate initial and intermediate drilling for Denture 4U procedure
- Anterior guide : drilling positioning for Ø2.2 in anterior region (tooth number 2 and 3 positions marked)
- Posterior guide : drilling positioning function for Ø3.0 drill in posterior region

※ Used by assembling with the posterior guide of desired angle

- A removable handle for Denture 4U Guide

D4UG

Posterior Guide



- Used by assembling to the anterior guide prior to procedure

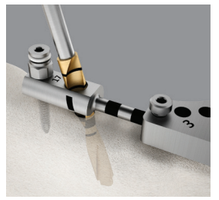
※ Assembled with the angle marking side shown

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

※ Replaceable during procedure

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

Degree	0°	17°	30°
	D4UPG0	D4UPG17	D4UPG30

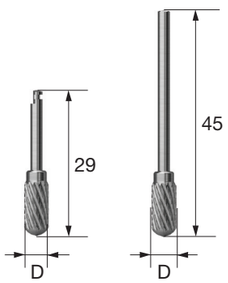


Bottom of the marking line →
Check mesial direction

Crest Remover

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

L \ D	Ø5.0
29	CERM50A
45	CERM50S



Denture 4U KIT Surgical Instruments

Anchor Screw

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

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

Anchor Drill

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

L \ D	Ø1.65
3	D4UAD3
11	D4UAD11

Guided Initial Drill

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

L \ D	Ø2.2
5	GD2208NC

Twist Drill

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

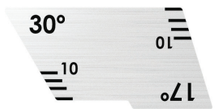
L \ D	Ø3.0
5	D4U2D3005
18	D4U2D3018

Conutersink

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

D4UCS

Indicator



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

D4UI

Path Checker

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

D4UPC

Simple Mount Driver

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

L	
Short	ASMDS

Multi Abutment Machine Driver

• A dedicated Machine Driver for Multi Abutment

MAMD

Multi Abutment Outer Driver

• A dedicated Torque Driver for Multi Abutment

MAOD

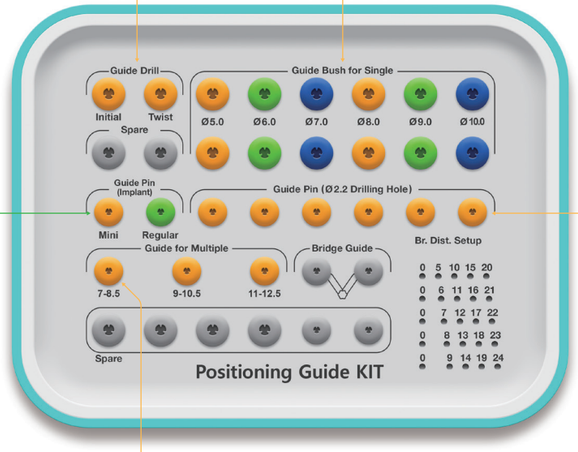
Positioning Guide KIT (OPGPK)

GD2208NC
GD2213FNC

Guide Drill

SGB050 SGB080
SGB060 SGB090
SGB070 SGB100

Single Guide



Guide Pin
(Implant)

PGSPM
PGSPR

Guide Pin

PGSP22

Bridge Guide
(Fan Type)

PGBRA070
PGBRA090
PGBRA110

Positioning Guide Full KIT (OPGAK)

Lower panel components

Multi Joint Handle Option
MJH

L-Wrench Option
LWC20H

Denture Guide Option
PGODA

GD2208NC
GD2213FNC

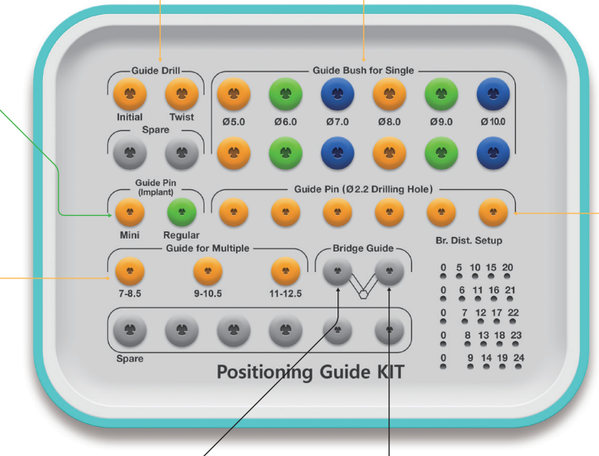
Guide Drill

SGB050 SGB080
SGB060 SGB090
SGB070 SGB100

Single Guide

Guide Pin
(Implant)

PGSPM
PGSPR



Guide Pin

PGSP22

Bridge Guide
(Fan Type)

PGBRA070
PGBRA090
PGBRA110

Bridge Guide
(Compass Type)

PGBPA

Distance setup Pin

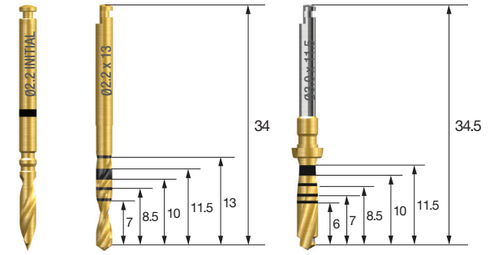
PGDSP

Positioning Guide KIT Surgical Instruments

Guide Drill

- Initial drill : For initial drilling, assemble to the Single Guide to adjust the drilling depth
- Ø2.2 twist drill : Used with the bridge guide for initial drilling
- Ø3.0 twist drill : For subsequent drilling of Ø2.2 Twist Drill drilling path guide

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



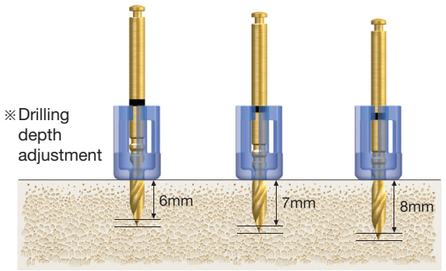
Initial drill　Ø2.2 twist drill　Ø3.0 twist drill

Single Guide

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

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

※ Disposable, Do not reuse

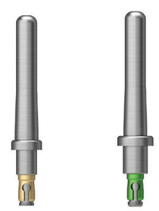


F5.0	F6.0	F7.0	F8.0	F9.0	F10.0
SGB050	SGB060	SGB070	SGB080	SGB090	SGB100

Guide Pin (Implant)

- Pin for checking the path and fixing the single guide in place after implant placement
- C = Connection

C	Mini	Regular
	PGSPM	PGSPR



Mini　Regular

Guide Pin

- A pin for checking the path around drilling and fixing the Single Guide in place

PGSP22

Bridge Guide

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

Fan type

Compass type Option

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

Multi Joint Handle Option

- Instrument to place the guide from the outside of the mouth by connecting to the ball head of the Bridge Guide

MJH

Denture Guide Option

- Guide with adjustable angles for respective patients in edentulous cases
- Drilling is performed in the mouth with the angle fixed using an L-wrench after adjusting the angle according to the arch shape of the patient in a working model
- Marking line refers to the No. 2,3,4,5,6 positions of the teeth from the center

PGODA

Positioning Guide KIT Surgical Instruments

L-wrench Option

• Instrument to adjust the size of the Denture Guide and fix it in place

LWC20H

Distance Setup Pin Option

• A pin for Bridge Guide compass type and denture guide fixation

PGDSP

SmartGuide KIT (OSGK)

Lower panel components

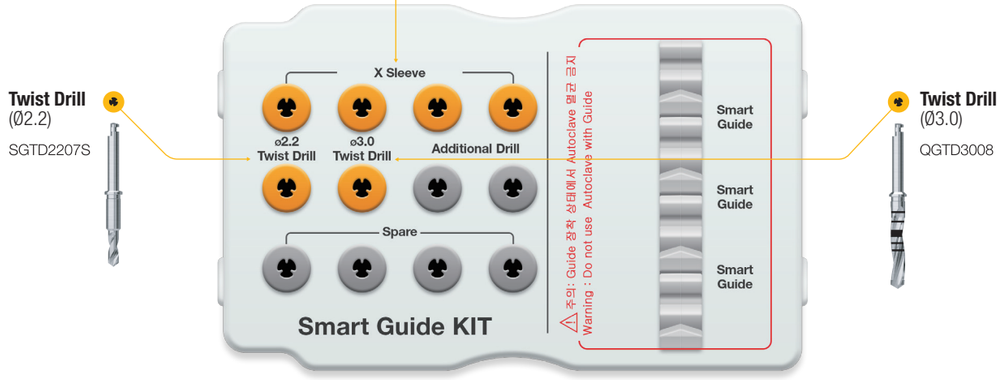
Guide Pin (4ea)
SGP22

Round bur (2ea)
RAHM1018

Twist Drill (2ea) (Ø2.2) For working models
2D2208LC01

SGCB30S

X Sleeve
(4ea)



Twist Drill
(Ø2.2)

SGTD2207S

Twist Drill
(Ø3.0)

QGTD3008

SmartGuide

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

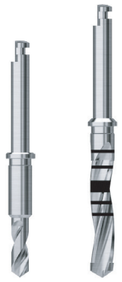
※ Disposable, Do not reuse; Use after low temperature disinfection (Do not autoclave or use hydrogen peroxide)

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

Twist Drill

- A drill used through the guide in the mouth
- Enables stable drilling by connecting to the sleeve of SmartGuide
- After initial drilling with Ø2.2 drill, additional drilling with Ø3.0 drill is performed
- Recommended drilling speed : 1,200~1,500rpm

D	Ø2.2	Ø3.0
	SGTD2207S	QGTD3008



X Sleeve

- Instrument to check if the guide is produced as intended through CT scans or x-ray images by connecting to the SmartGuide sleeve
- After connecting to the SmartGuide outside the mouth, mount inside the oral cavity

SGCB30S

Twist Drill (Ø2.2) For working models

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

D	Ø2.2
	2D2208LC01

Guide Pin

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

SGP22

ESSET KIT (HESEK)

Applicable Products

TSII / III SSII / III

Lower panel components

Torque Wrench
TQWCB

Depth Gauge
ODG

Ø5.0 CERM50A
Ø5.0 CERM50S
Ø7.0 CERM70A

Crest Remover

2D1808LC01
2D1810LC01
2D1811LC01

Twist Drill

HSAW070
HSAW100
HSAW130

Saw

EXP Mount Driver

AESMDS
AESMDL

Mount Extension

ASMEL

Expansion Drill

EXP162808
EXP162810
EXP162811

Expansion Drill

EXP223608
EXP223610
EXP223611

Expansion Drill (2ea)

EXP284408
EXP284410
EXP284411

Expansion Drill (2ea)

EXP324708
EXP324710
EXP324711

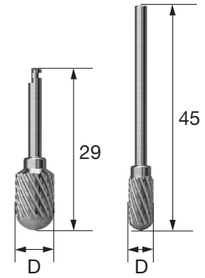
• For ordering codes of single items of ESSET KIT, see pages 279-281

ESSET KIT Surgical Instruments

Crest Remover

- 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

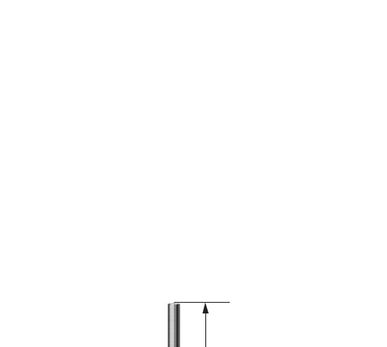
L \ D	Ø5.0	Ø7.0
29	CERM50A	CERM70A
45	CERM50S	-



Twist Drill

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

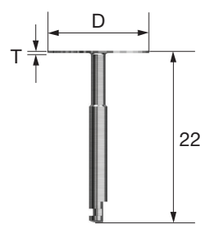
L	TL	D	Ø1.8
8.5	33		2D1808LC01
10	34.5		2D1810LC01
11	36		2D1811LC01



Saw

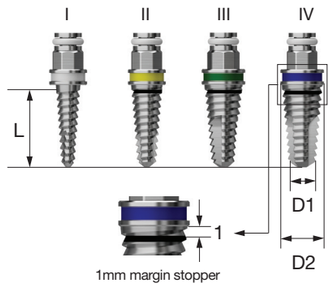
- Incision of the narrowed ridge
- After vertical incision, perform the incision of the entire area in the mesial to distal directions
- Recommended drilling speed: 1,200~1,500rpm
- Recommended number of use cycles: 10 times
- Used after connecting to the saw protector at the position of the saw connecting groove

D	Ø7.0	Ø10.0	Ø13.0
	HSAW070	HSAW100	HSAW130



Expansion Drill

- Expansion of the ridge after incision
- Used in sequence according to the implant diameter
  F4.0 : I → II → III / F4.5 : I → II → III → IV
- Recommended drilling speed: 25~35rpm

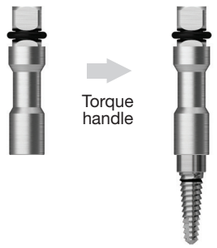


L \ Type	I	II	III	IV
D1 / D2	Ø1.6 / 2.8	Ø2.2 / 3.6	Ø2.8 / 4.4	Ø3.2 / 4.7
8.5	EXP162808	EXP223608	EXP284408	EXP324708
10	EXP162810	EXP223610	EXP284410	EXP324710
11.5	EXP162811	EXP223611	EXP284411	EXP324711

Mount Extension

- Used for applying torque in manual mode in the process of placing or removing an Expansion Drill into the alveolar bone

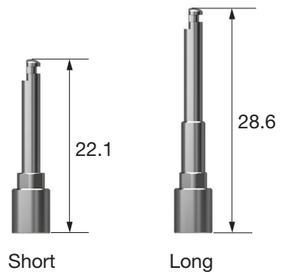
ASMEL



EXP Mount Driver

- Used for applying torque for engine in the process of placing or removing an Expansion Drill into the alveolar bone

L	
Short (L)	AESMDS
Long (L)	AESMDL



Torque Wrench (Bar Type)

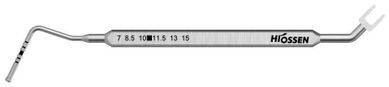
- Used for adjustment of placement position of implants and tightening of abutment and screws
- Torque is applied by pulling the bar and aligned to the line indicated with the torque value to be applied

TQWCB

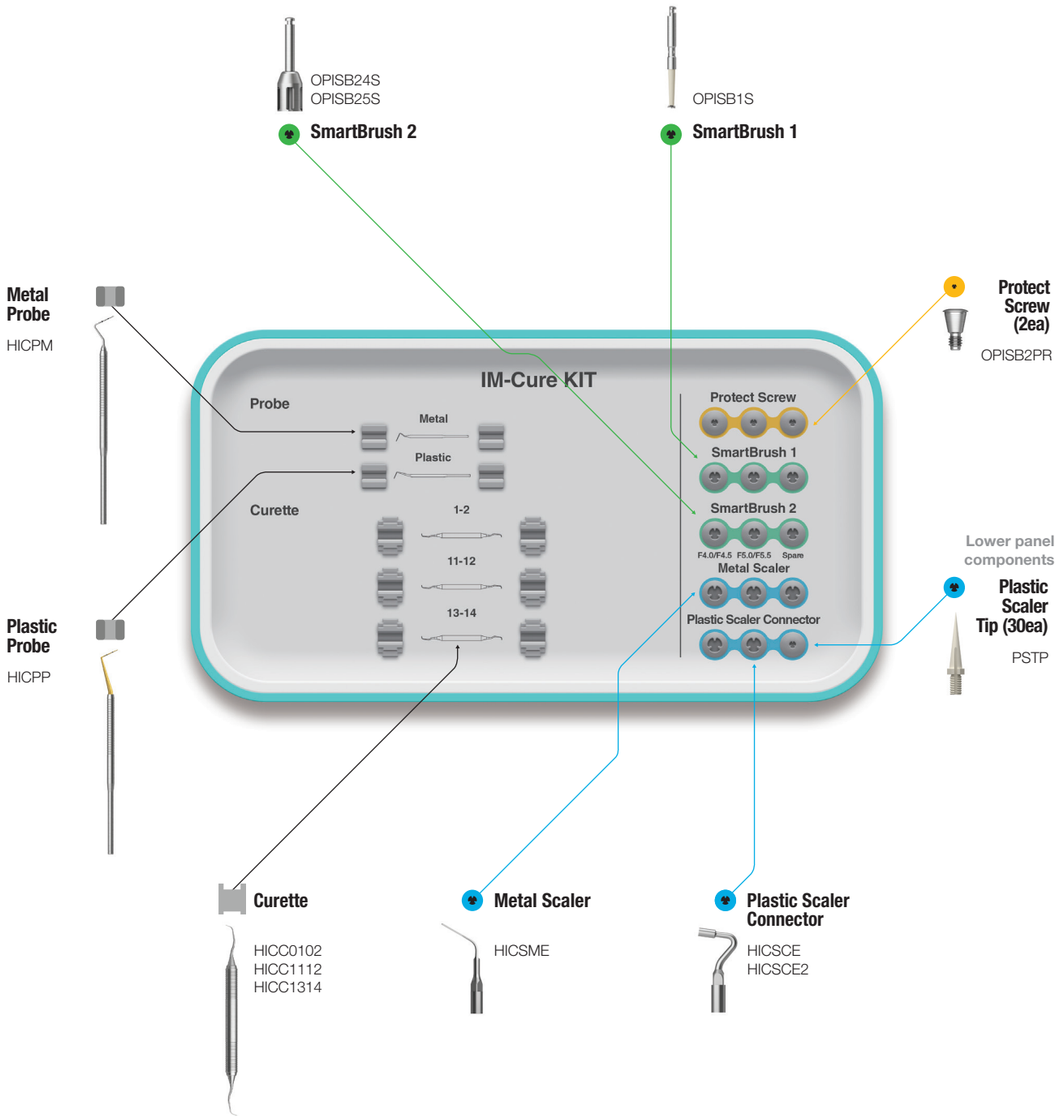
Depth Gauge

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

ODG



IM-Cure KIT (HICK) NEW 2025



• For ordering codes of single items of IM-Cure KIT, see pages 283-285

IM-Cure KIT Surgical Instruments

Metal Probe

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

HICPM

Plastic Probe

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

HICPP

Curette

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

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

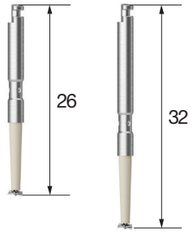
IM-Cure KIT Surgical Instruments

Protect Screw

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

Type	Mini	Regular
	OPISB2PM	OPISB2PR

SmartBrush 1



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

※ Disposable and do not reuse (Must be discarded after use)

L	
Short	OPISB1S
Long	OPISB1L

SmartBrush 2

- Used for peri-implantitis cleaning
- Used after connecting the Protect Screw to the implant after removing the patients prosthesis or abutment
- Be sure to polish with saline irrigation
- Recommended drilling speed: 1,200~1,500rpm
- Recommended number of use cycles : 1~2 minutes

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

※ Disposable, Do not reuse (Must be discarded after use)

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

Metal Scaler

- Used for removing plaque or foreign substance from the surface of the implant by connecting to an ultrasonic scaler
- Used as a secondary instrument after using SmartBrush 1 or SmartBrush 2
- Bendable tip of the product for easy access
- EMS, KaVo and SATELEC types available

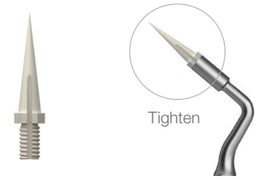
Type	EMS	KaVo	SATELEC
	HICSME	HICSMK	HICSMS

Plastic Scaler Connector

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

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

Plastic Scaler Tip



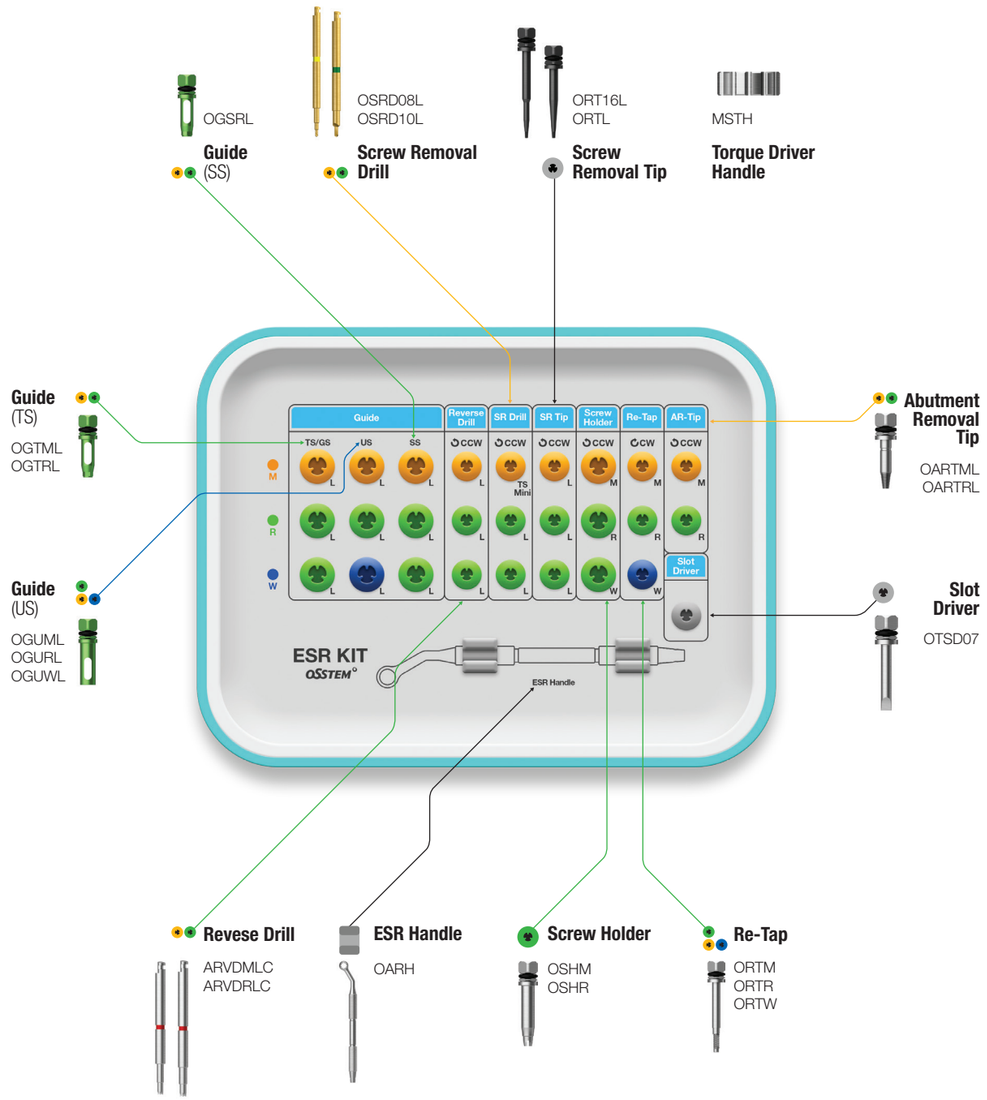
- Used for removing foreign substances from the abutment or crown by connecting to a SmartScaler

※ Do not use on the implant surface

- Packing unit : 30ea/1set

PSTP

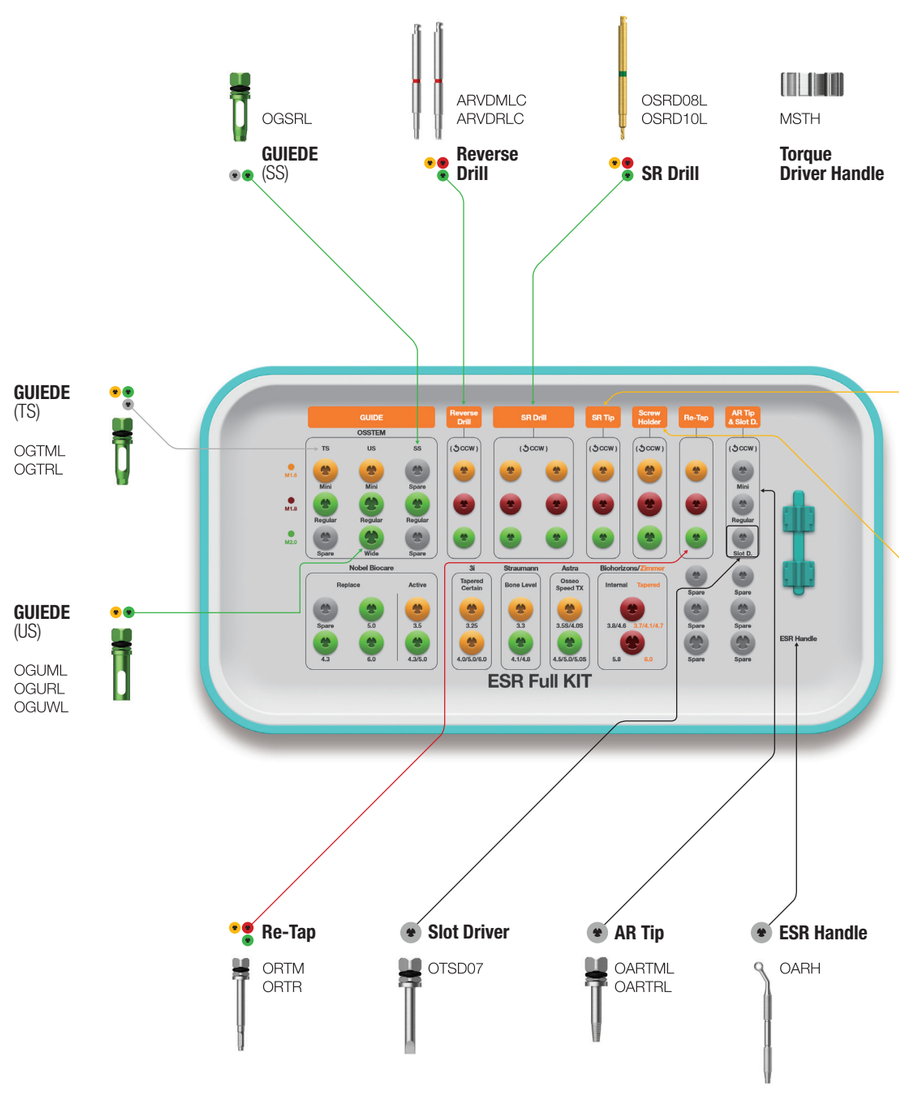
ESR KIT Easy Screw Removal KIT (OESRK)



ESR Full KIT Easy Screw Removal Full KIT (OESRFK)

• Including the same components as ESR KIT and allows holding of the components provided by other companies

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



ESR Full KIT Surgical Instruments

Items not included in the KIT

Guide

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

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

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

Guide

- Used for centering and prevention of shaking of SR Drill, SR Tip, etc. by connecting and fixing to the implant
- Use according to implant type and diameter
  (Internal/submerged type products of 6 overseas manufacturers)
- Short or Long types selected according to the intermaxillary distance
- ■ Used in common
- C = Connection / D = Diameter

Osstem

C \ Type	TS		SS	
	Short	Long	Short	Long
Mini	OGTMS	OGTML	OGUMS	OGUML
Regular	OGTRS	OGTRL	OGSRS	OGSRL
Wide	-	-	OGSRS	OGSRL

Nobel Biocare

D \ Type	Active		Replace	
	Short	Long	Short	Long
Ø3.5	OGNA01S	OGNA01L	-	-
Ø4.3	OGNA02S	OGNA02L	OGNR02S	OGNR02L
Ø5.0	OGNA02S	OGNA02L	OGNR03S	OGNR03L
Ø6.0	-	-	OGNR04S	OGNR04L

Nobel Biocare

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

Straumann

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

D \ Type	Roxolid SLActive	
	Short	Long
RN (3.3)	OGSTRS	OGSTRL
RN (4.1)	OGSTRS	OGSTRL
RN (4.8)	OGSTRS	OGSTRL
WN (4.8)	OGSTRS	OGSTRL

Astra

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

ESR Full KIT Surgical Instruments

3i

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

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

Zimmer

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

Biohorizons

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

D \ Type	External	
	Short	Long
Ø3.5	OGUMS	OGUML
Ø4.0	OGURS	OGURL
Ø5.0	OGBES	OGBEL
Ø6.0	OGBES	OGBEL

Reverse Drill

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

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

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

M1.6 M1.8/2.0

Screw Removal Drill (SR Drill)

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

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

※ Disposable, Do not reuse

- Short : Sold as a single item

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

M1.6 M1.8 M2.0

Torque Driver Handle

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

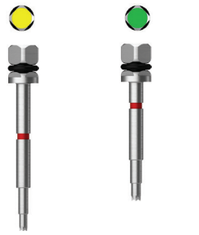
MSTH

Reverse Driver

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

※ Do not use more than 10 times

- C = Connection



Mini Regular/Wide

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

Screw Removal Tip (SR Tip)

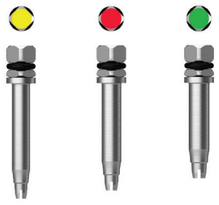
- Used for removing fractured screws by rotating the screw removal tip in the hole on the fractured surface of the screws formed by using the screw removal drill (SR Drill)
- Rotating direction : Reverse rotation

※ Disposable, Do not reuse

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

Screw Holder

- Removing partially protruding fractured screws by assembling with a screw holder
- Color coded for easily visible indication of types
- Rotating direction : Reverse rotation



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

Re-tap

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

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

ESR Handle

- Instrument to fix the guide to the implant

OARH

Abutment Removal Tip (AR Tip)

- Used for fractured abutment, mount partially remaining and stuck in the implant
- The AR Tip is assembled with the fractured abutment hole, fixed in place tightly and abutment is removed using forceps, etc.
- Mini : removing screws with a slipped hex
  - The Mini AR Tip is assembled to the slipped hex, and rotated in the reverse direction to connect to the screw for removal

Mini Regular

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

ESR Full KIT Surgical Instruments

Slot Driver

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

OTSD07

Transfer Abutment Separate Tool

- Used for releasing the jamming caused by Non-hex Transfer Abutment stuck from the contact of the implant and the morse taper
- Commonly used for both Mini and Regular: the body end is used for Mini and for Regular, it is placed into the 2-stage groove
- For ease of separation, the separate tool body is placed into the inner hole of the abutment after removing the abutment screw, and the driver is rotated forward to integrate the body and the abutment.
- If separation is difficult, use the tool after connecting a Ratchet Wrench to the driver

Driver Body

Driver	Body	Set
TASD	TASB	TAST

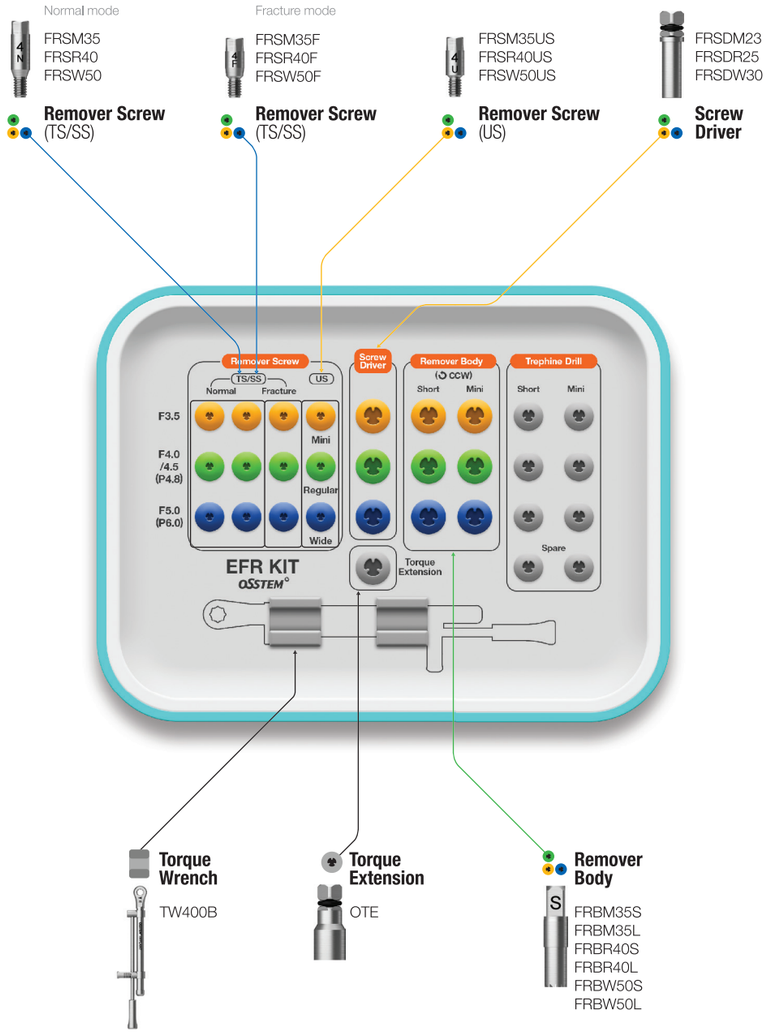
EFR KIT Easy Fixture Removal KIT (OSFRK)

Top panel components

Implant Wrench
FRDFE

Applicable Products

TSII / III | SSII / III | Ultra-wide



EFR Full KIT Easy Fixture Removal Full KIT (OSFRFK)

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

Top panel components

Implant Wrench
FRDFE

Torque Wrench
TW400B

Applicable Products

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

EFR Full KIT Surgical Instruments

Items not included in the KIT

Remover Screw

Nobel	Active			Replace				
	Normal	Fracture		Normal	Fracture			
	FRSMNA35	FRSMNA35F		FRSMNR35	FRSMNR35F			
	FRSR40	FRSR40F		FRSR40	FRSR40F			
	FRSW50	FRSW50F		FRSW50	FRSW50F			
Straumann	Bone Level		3i	Full Osseotite Tapered Certain		Biohorizons	Internal	
	Normal	Fracture		Normal	Fracture		Normal	Fracture
	FRSM33	FRSM33F		FRSMI325	FRSMI325F		FRSRZ41	FRSRZ41F
	FRSRS41	FRSRS41F		FRSRI40	FRSRI40F		FRSWZ47	FRSWB46F
	FRSWS48	FRSWS48F		FRSWI50	FRSWI50F		FRSWZ60	FRSWB46F
Zimmer	Tapered		Astra	Osseo Speed TX		Remover Body		
	Normal	Fracture		Normal	Fracture			
	FRSMZ37	FRSMZ37F		FRSMNA35	FRSMNA35F	FRBW57S		
	FRSRZ41	FRSRZ41F		FRSRA40	FRSRA40F	FRBW57L		
	FRSWZ47	FRSWZ47F		FRSR40	FRSR40F	FRBUW60S		
	FRSWZ60	FRSWZ47F		FRSW50	FRSW50F	FRBUW60L		

Remover Screw

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

Osstem

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

Nobel Biocare

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

Straumann

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

Astra

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

3i

T	Mode	Mini Ø3.25	Regular Ø4.0	Wide Ø5.0/6.0
Full Osseotite Tapered Certain	Normal	FRSMI325	FRSRI40	FRSWI50
	Fracture	FRSMI325F	FRSRI40F	FRSWI50F

Zimmer

T	Mode	Mini Ø3.7	Regular Ø4.1	Wide Ø4.7	Ultra-wide Ø6.0
Tapered	Normal	FRSMZ37	FRSRZ41	FRSWZ47	FRSWZ60
	Fracture	FRSMZ37F	FRSRZ41F	FRSWZ47F	FRSWZ47F

Biohorizons

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

EFR Full KIT Surgical Instruments

Screw Driver

- Driver to connect and fix the remover screw to the implant
- Remover screw Recommended tightening torque: Regular/Wide 80Ncm, Mini 60Ncm
- The same type as the remover screw is selected
- T=Type

T	Mini	Regular	Wide
	FRSDM23	FRSDR25	FRSDW30

Remover Body

- Instrument to exert torque in the implant loosening direction by connecting to a remover screw
- Used according to the diameter of the implant to be removed

※ Disposable, Do not reuse

- The same type as the remover screw is selected
- T=Type

T	Mini	Regular	Osstem only Wide	For overseas other companies Wide	Ultra-wide
Short	FRBM35S	FRBR40S	FRBW50S	FRBW57S	FRBUW60S
Long	FRBM35L	FRBR40L	FRBW50L	FRBW57L	FRBUW60L

Torque Extension

- Extension of the length of screw driver and remover body (up to 10mm)

OTE

Torque Wrench

- Used to remove the implant with the remover body after tightening with a screw driver
- Torque applied up to 400Ncm (60/80/200/300/400Ncm scale display)
- Torque applied by aligning the center of the bar with the torque value to be applied by pulling the bar
- Washed and sterilized after use for storing

TW400B

Implant Wrench

- Wrench to remove implant from the remover body

FRDFE

Dr. Cho's Instrument KIT (DCHOKIT)

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

Periosteal Elevator (24G)

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

EP24G-W

Minesota Retractor

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

RTCRM-W

Extension Hose Adapter

- Adapter for chair suction connection

SNKHA-W

Periosteal Elevator (Selden)

- Retracted and fixed for gingival tissue flap
- W : 10/13mm

EP23-W

Needle Holder (Crile-Wood, TC)

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

NHC150TC-W

Ochsenbein Chisel

- Bone removal and formation
- W : 5.0mm

CHCO1-W

Tissue Forcep (ADSON)

- Used for holding soft tissue
- No protrusion on the inner surface of the beak
- L : 120mm (±5)

PT41-W

Extension Hose

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

SNKHS-W

Dr.Cho's Instrument Pouch

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

WPB-W

Titanium Suction Tip

- D (inner diameter): 3.0mm

SN3TI-W

Osstem Basic Instrument KIT (OBKIT)

- Commonly used implant surgery KIT
- Composed of 25 types of instruments (1ea each)

Periosteal Elevator (24G)

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

EP24G-W

Scalpel Handle (Flat Type)

SHF-W

Pouch

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

WPA-W

Needle Holder

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

NH160TC-W

Mirror

MHC-DMCS4-W

Titanium Suction Tip

- D (inner diameter): 3.0mm

SN3TI-W

Chisel

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

CHCO2-W

Tissue Forcep ADSON

- Protrusion on the inner surface of the beak
- L : 120mm (±5)

PT42-W

Hemostats

- Mosquito (curved)
- L : 130mm (±5)

HTM130C-W

Osstem Basic Instrument KIT (OBKIT)

Periosteal Elevator (Selden)

- Retracted and fixed for gingival tissue flap
- W : 10/13mm

EP23-W

Caliper

- Castroviejo

LPC90-W

Scissor (LaGrange)

- Compound (curved)
- L : 115mm (±5)

SCLC115-W

Bone Well

BWSUS1-W

Surgical Curettes (Gracey)

CGR11-12-W

Minesota Retractor

RTCRM-W

Surgical Curettes (Surgical Curettes, CM11)

URCM11-W

Towel Clamp

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

CPTC135-W

Periosteal Elevator (MOLT9)

- Lifting mucosal periosteum after gingival tissue incision
- W : 8.2/4.2mm

EP9-W

Tweezer (Wide)

- L : 155mm

PCW150-W

Scalpel Handie (Straight Type)

SHS-W

Bone Rongeurs

- Friedman
- L : 140mm (±5)

RNGF140-W

Scissor (Tissue Scissor)

- Straight
- L : 150mm (±5)

SCTC115-W

Surgical Curettes (Surgical Curettes, CM10)

URCM10-W

Mallet

- Autoclave can be used

ML25-W

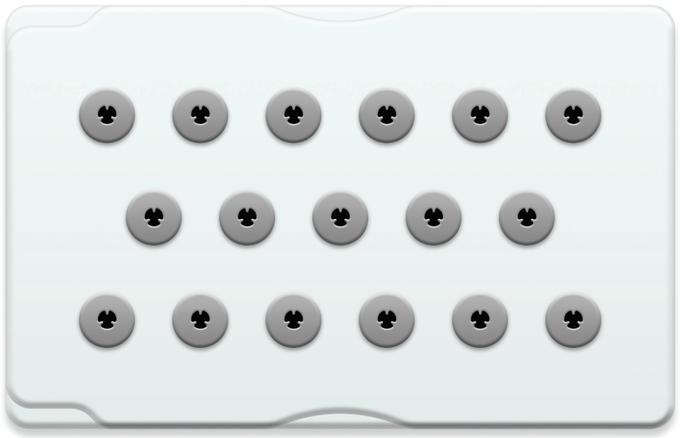
Periosteal elevator (Prichard)

- W : 11/4.9mm

EPPR3-W

Custom KIT (OCTK)

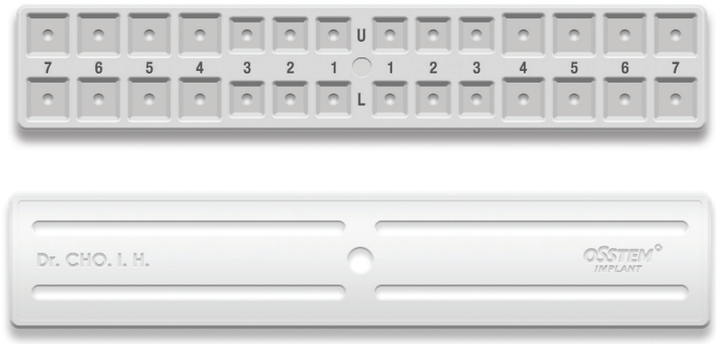
- KIT used to disinfect some of the surgical instruments or to store new spare tools
- Additional 3 types of rubber (large, medium, small), which can be used according to user preference
- Sterilizable material (132℃, 15 minutes)



Healing Case (OHAC)

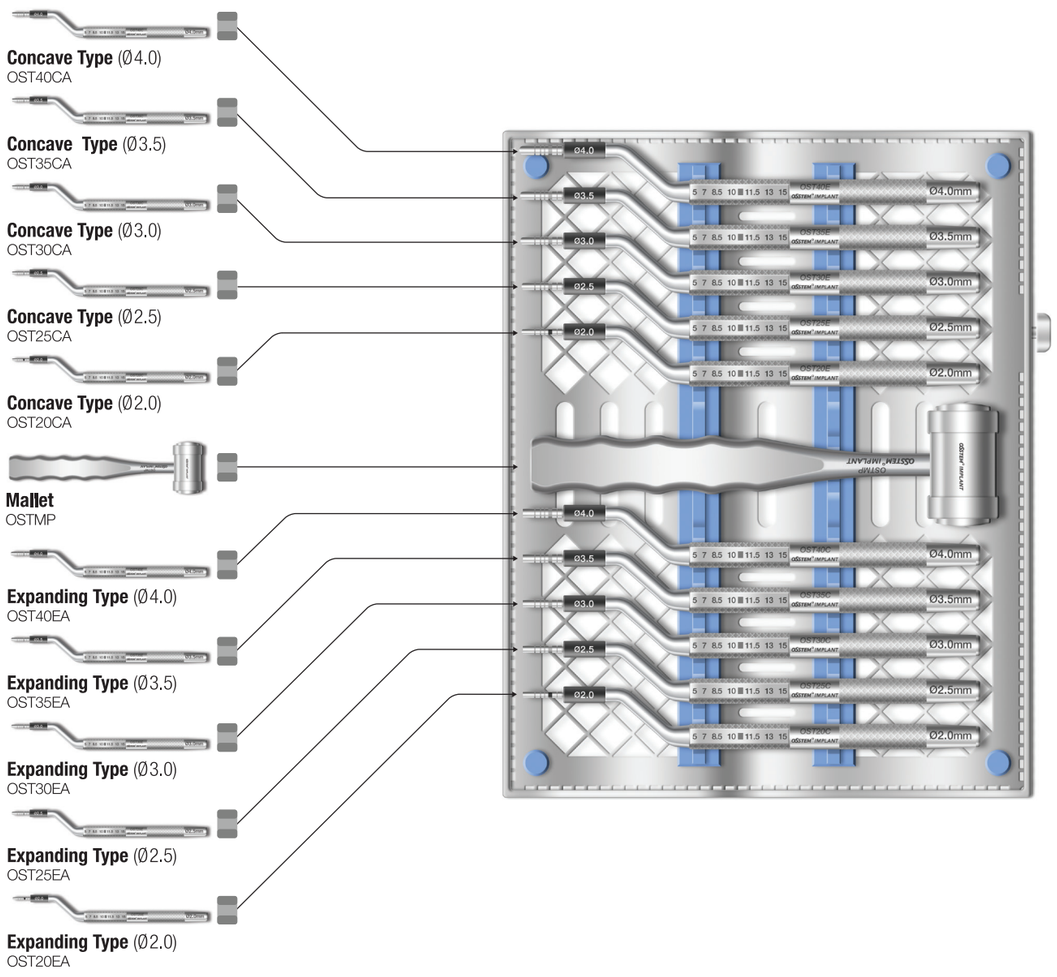
- A case for temporary storage and cleaning of Healing Abutment during the prosthesis procedure
  - Upper prosthesis for additional mounting: transfer / temporary / angled / cover screw / pick-up & transfer impression coping/ OB anchor/ temporary crown (Only the Healing Abutment can be assembled with the top plate)
- Similar to the tooth arrangement, a total of 28 cells are arranged with 7 cells each in the upper / lower and left / right sections
- Sterilizable material (132℃, 15 minutes); sterilization required for reusing the case

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



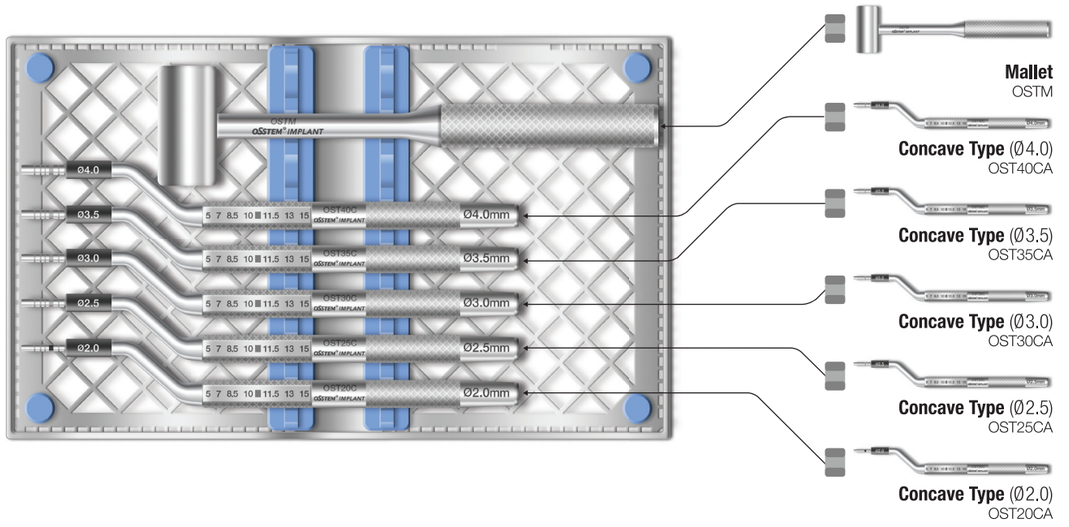
Osteo KIT (OSTK)

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



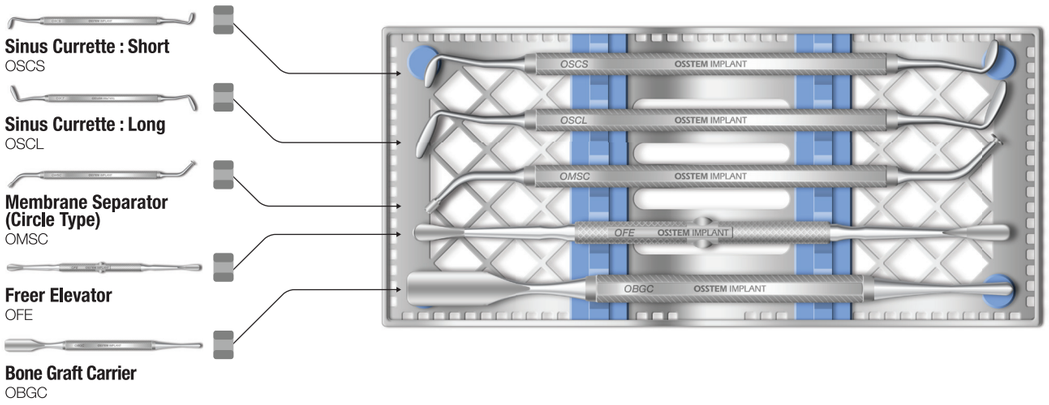
Osteotome KIT (AOST)

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



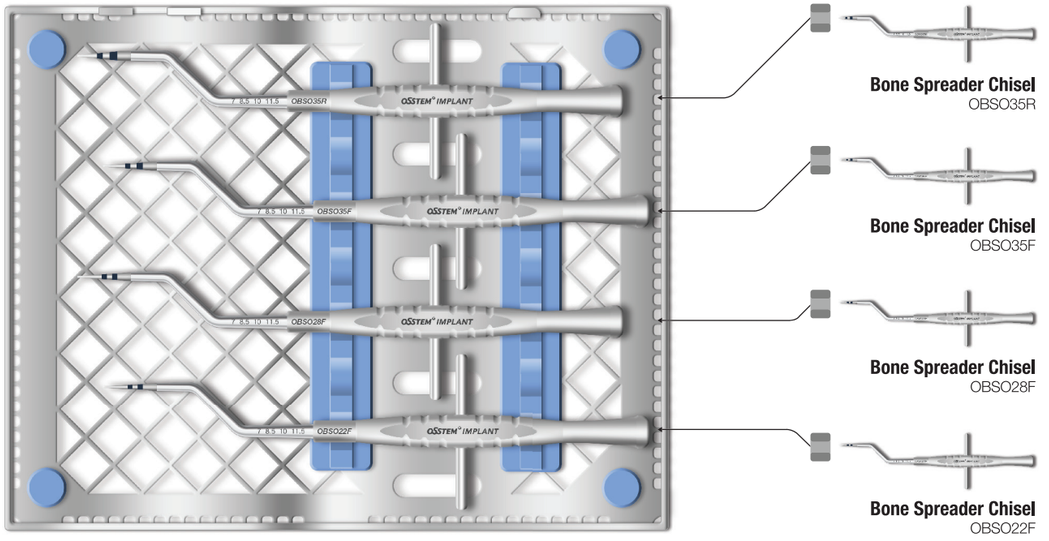
Sinus KIT (ASLK)

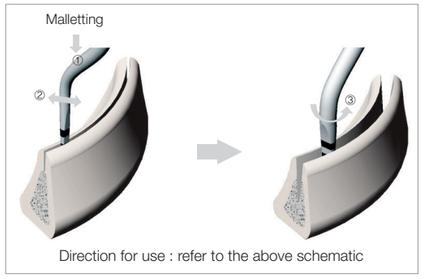
- KIT containing various tools for maxillary sinus floor elevation (sinus lift procedure)
- Lateral approach instrument for sinus procedure
- Components (5 types)
  - Freer elevator : OFE
  - Bone graft carrier : OBGC
  - Membrane separator (circle type) : OMSC
  - Sinus currette-short : OSCS
  - Sinus currette-long : OSCL



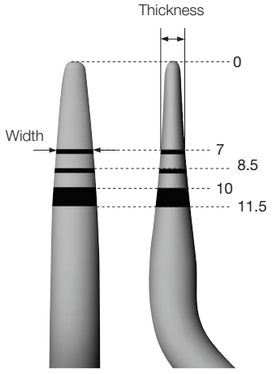
Bone Spreader KIT (OBSOK)

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





Direction for use : refer to the above schematic



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

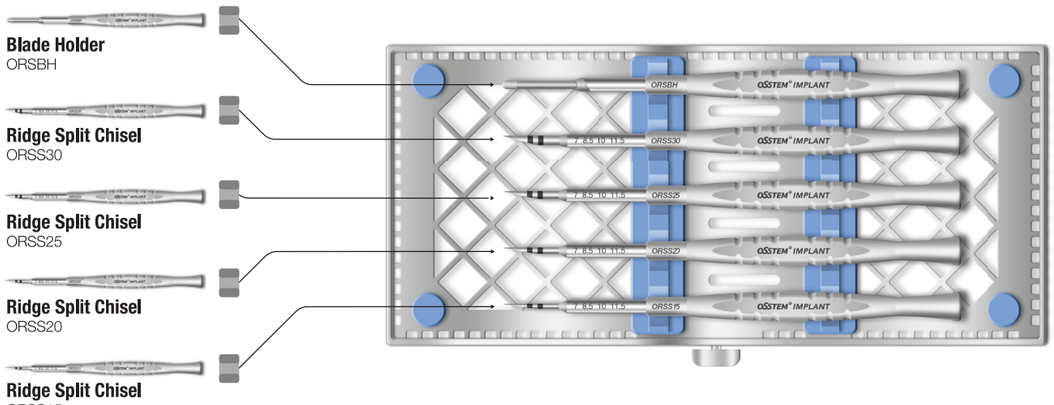
(Unit : mm)

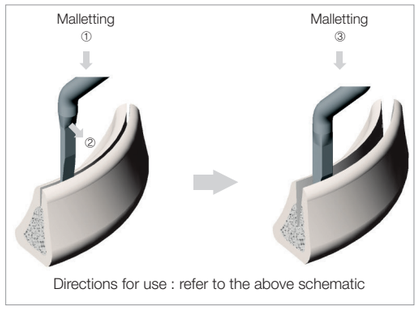
Code \ Tip length	Spec.	7	8.5	10	11.5
OBSO22F	Thickness	1.15	1.3	1.45	1.6
	Width	2.1	2.2	2.2	2.2
OBSO28F	Thickness	1.15	1.3	1.45	1.6
	Width	2.65	2.8	2.8	2.8
OBSO35F	Thickness	1.3	1.45	1.6	1.8
	Width	3.3	3.5	3.5	3.5
OBSO35R (round type)	Thickness	1.85	2.1	2.3	2.55
	Width	3.3	3.5	3.5	3.5

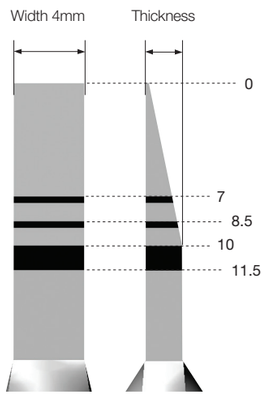
Ridge Split KIT Straight (ORSSK)

Straight

- Chisel : Used for expanding narrowed alveolar ridge
- Blade holder : Malletting (as seen below) enabled by tightening a #15 blade when it is difficult to make a bone incision using bur due to low bone quality
- Components
  - Ridge split chisel : ORSS15, ORSS20, ORSS25, ORSS30
  - Blade holder : ORSBH







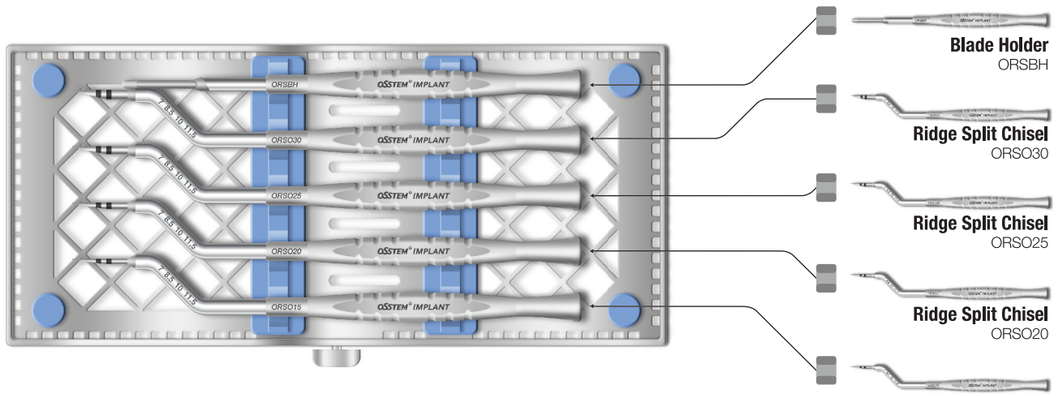
(Unit : mm)

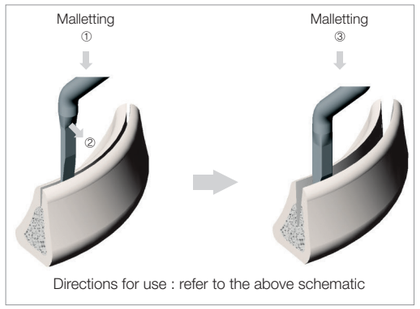
Code \ Spec. \ Tip length		7	8.5	10	11.5
ORSS15	Thickness	1.1	1.27	1.5	1.5
	Width	4	4	4	4
ORSS20	Thickness	1.45	1.7	2.0	2.0
	Width	4	4	4	4
ORSS25	Thickness	1.8	2.15	2.5	2.5
	Width	4	4	4	4
ORSS30	Thickness	2.15	2.5	3.0	3.0
	Width	4	4	4	4

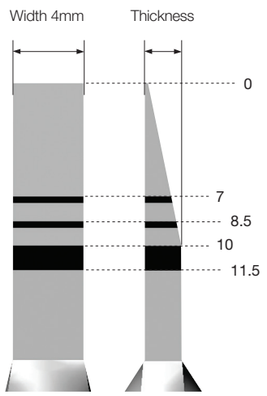
Ridge Split KIT Offset (ORSOK)

Offset

- Chisel : Used for expanding narrowed alveolar ridge
- Blade holder : Malletting enabled by tightening a #15 blade when it is difficult to make a bone incision using bur due to low bone quality
- Components
  - Ridge split chisel : ORSO15, ORSO20, ORSO25,ORSO30
  - Blade holder : ORSBH







(Unit : mm)

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

OSSTEM IMPLANT