

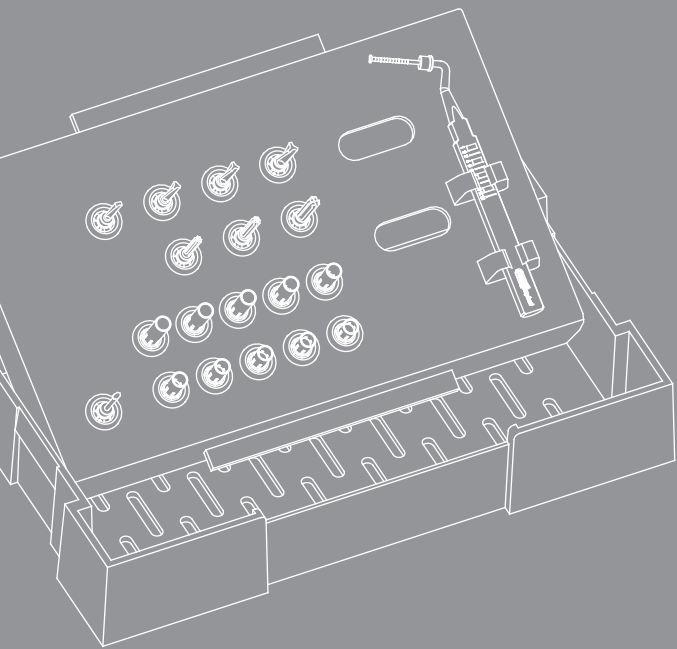
# SURGICAL KIT & MANUAL



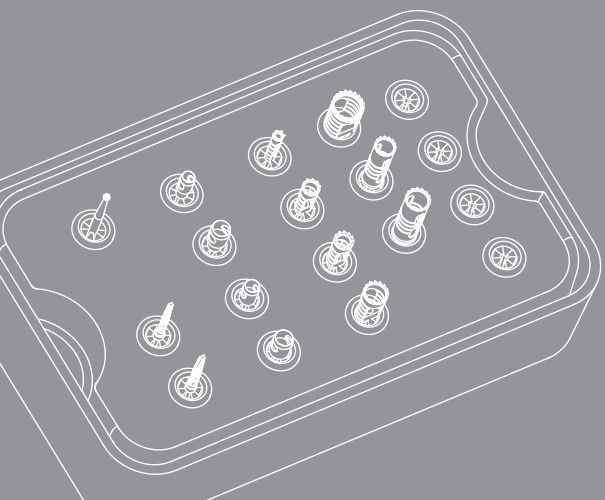
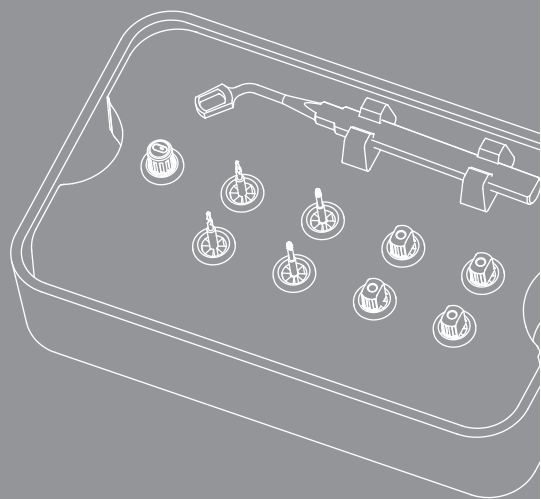
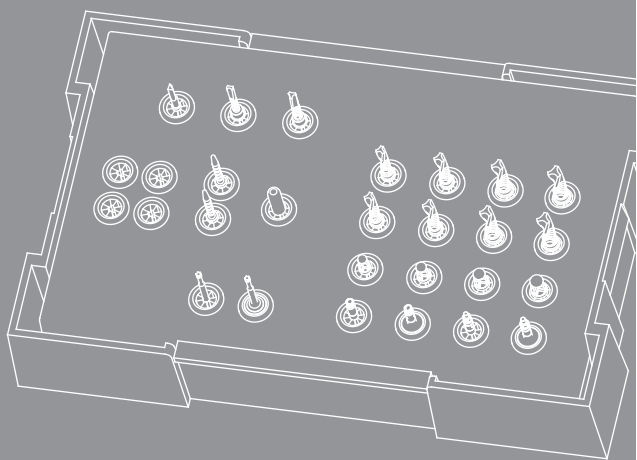
CSM Implant

47, Gyeongdae-ro17-gil, Buk-gu, Daegu, Korea  
(Bokhyeon-dong, B205, B201 Techno B/D, Kyung-Pook National Univ.)  
Tel : +82-53-952-8261 Fax : +82-53-958-8261

SM-Rev01\_AF/01



CSM Implant

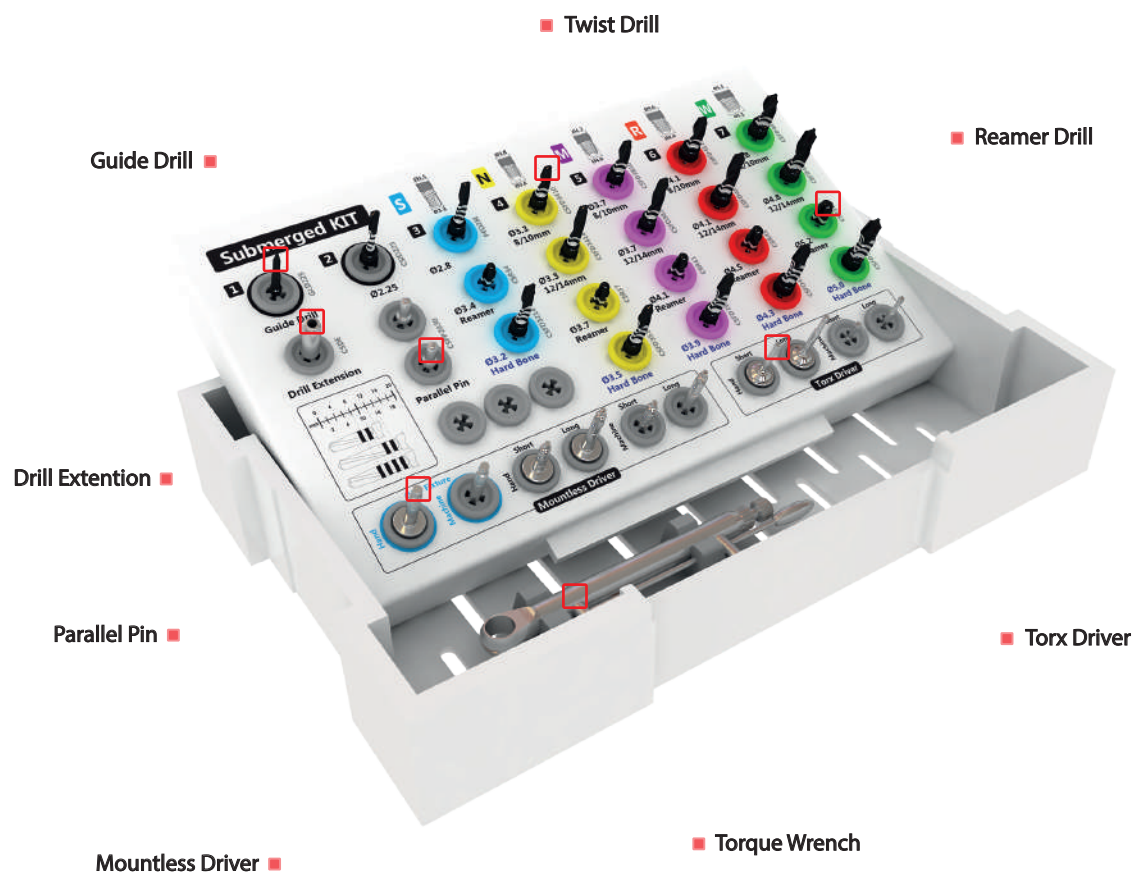


## Contents

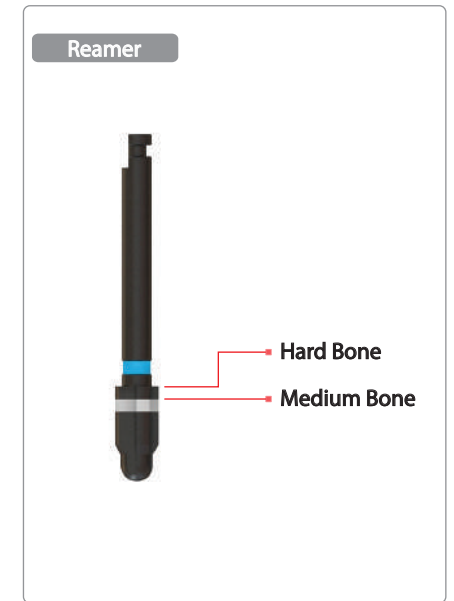
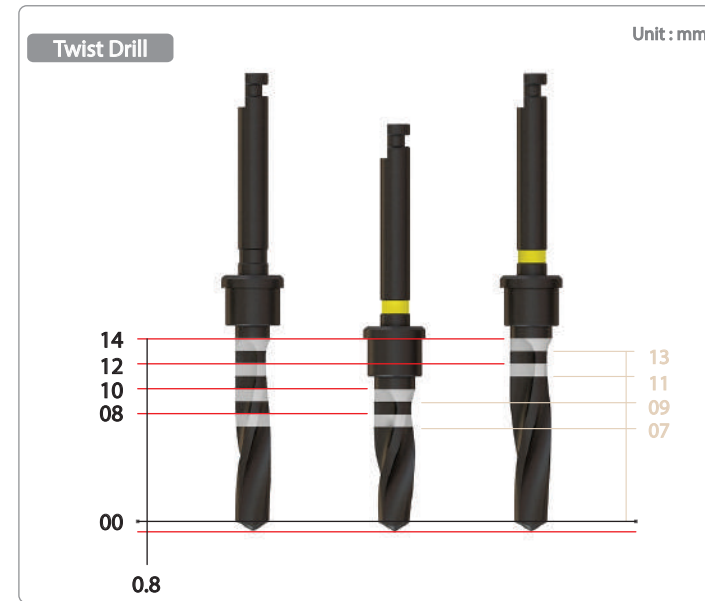
Submerged KIT	P04
Submerged KIT Drilling Sequence	P08
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R - KIT (Screw Remover)	P44
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# Submerged KIT Pro' Code : SKT

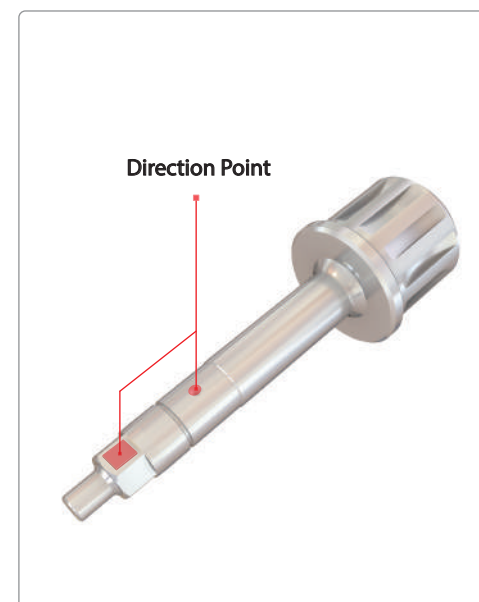
04  
Submerged



















## Features





















05  
Submerged



# Component

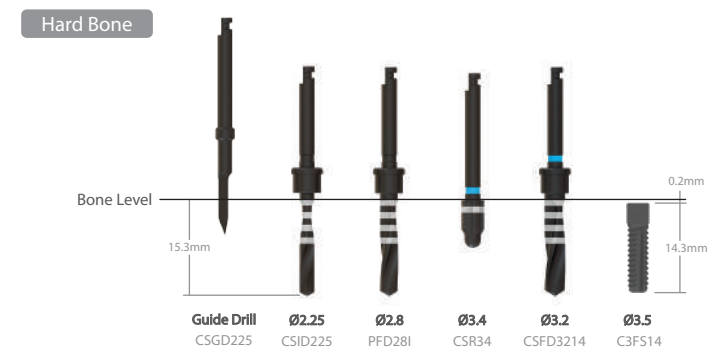
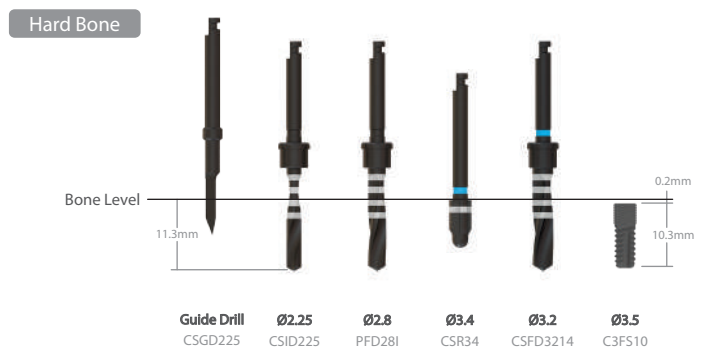
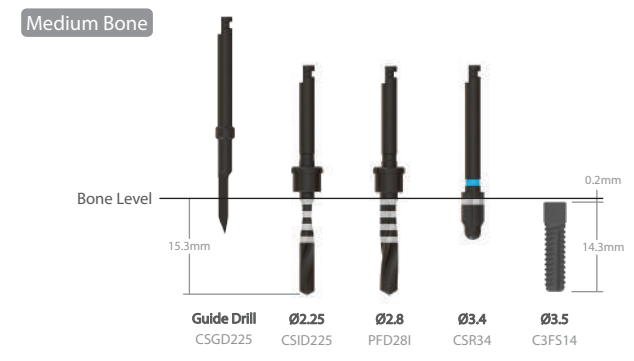
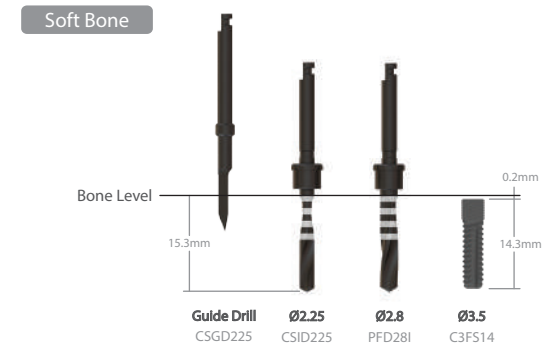
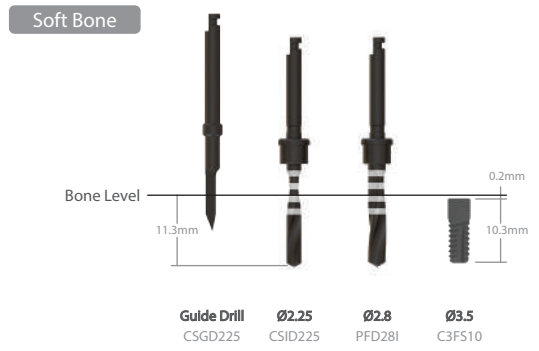
No	Part Name	Picture	Diameter (Ø)	Length(mm)	Pro' Code
1	Guide Drill		2.25	34	CSGD225
2	Initial Drill		2.25	36	CSID225
3	Twist Drill		2.8	36	PFD28I
4	Twist Drill (8/10/12/14mm)		3.2	36	CSFD3214
5	Twist Drill (8/10mm)		3.3	32	CSFD3410
6	Twist Drill (12/14mm)		3.3	36	CSFD3414
7	Twist Drill (8/10/12/14mm)		3.5	36	CSFD3514
8	Twist Drill (8/10mm)		3.7	32	CSFD3810
9	Twist Drill (12/14mm)		3.7	36	CSFD3814
10	Twist Drill (8/10/12/14mm)		3.9	36	CSFD3914
11	Twist Drill (8/10mm)		4.1	32	CSFD4110
12	Twist Drill (12/14mm)		4.1	36	CSFD4114
13	Twist Drill (8/10/12/14mm)		4.3	36	CSFD4314
14	Twist Drill (8/10mm)		4.8	32	CSFD4810
15	Twist Drill (12/14mm)		4.8	36	CSFD4814
16	Twist Drill (8/10/12/14mm)		5.0	36	CSFD5014

# Component

No	Part Name	Picture	Type	Length(mm)	Pro' Code
17	Reamer (Small)		3.4	27	CSR34
18	Reamer (Narrow)		3.7	27	CSR37
19	Reamer (Medium)		4.1	27	CSR41
20	Reamer (Regular)		4.5	27	CSR45
21	Reamer (Wide)		5.2	27	CSR52
22	Mountless Driver (2.1 Double Hex)		Hand	24	MDH14-21
23	Mountless Driver (2.1 Double Hex)		Machine	31	MDM14-21
24	Mountless Driver (2.5 Hex)		Hand (Short)	20	MDH08-25
25	Mountless Driver (2.5 Hex)		Hand (Long)	26	MDH14-25
26	Mountless Driver (2.5 Hex)		Machine (Short)	27	MDM08-25
27	Mountless Driver (2.5 Hex)		Machine (Long)	33	MDM14-25
28	Torx Driver		Hand (Short)	21	TDH13
29	Torx Driver		Hand (Long)	26	TDH18
30	Torx Driver		Machine (Short)	22	TDM08
31	Torx Driver		Machine (Long)	32	TDM18
32	Drill Extension		Machine	27	CSDE
33	Parallel Pin		Hand	26	CSPP2030
34	Torque Wrench		Hand	85	TWI/RWI

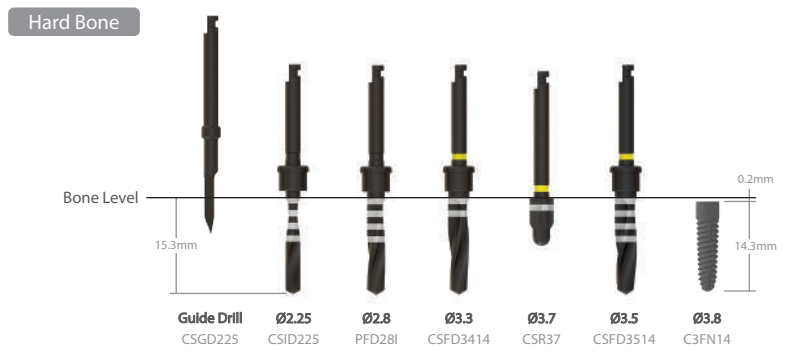
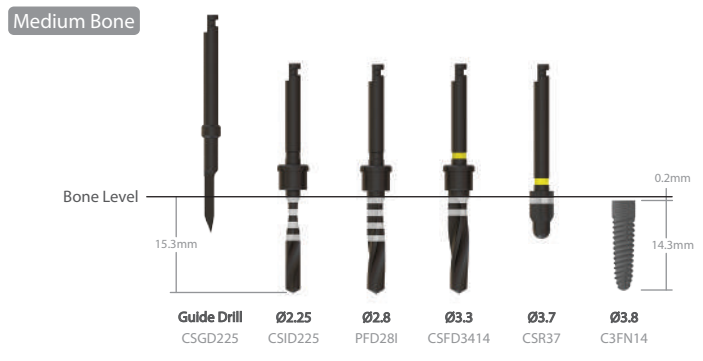
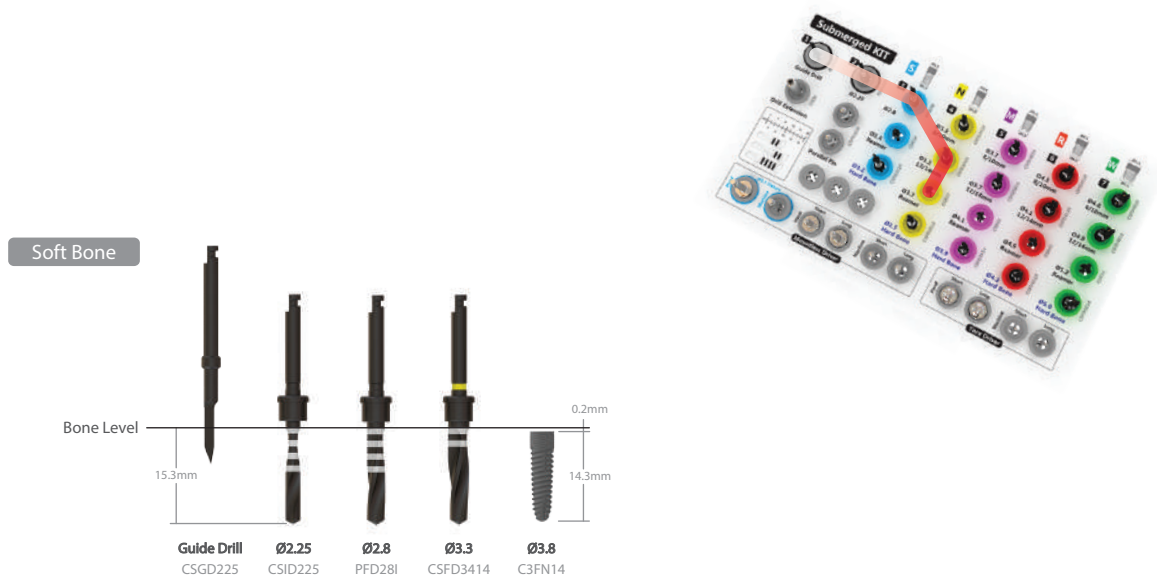
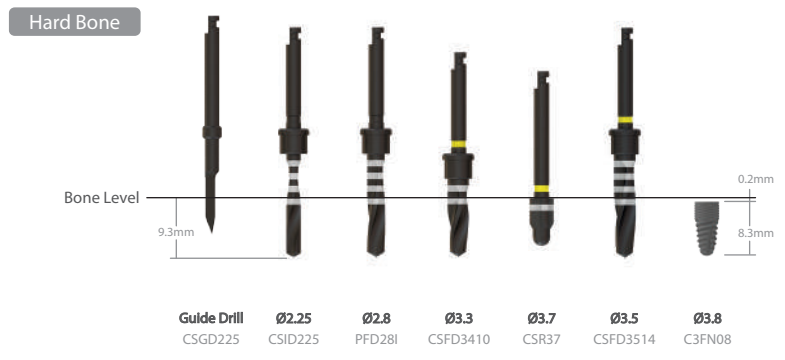
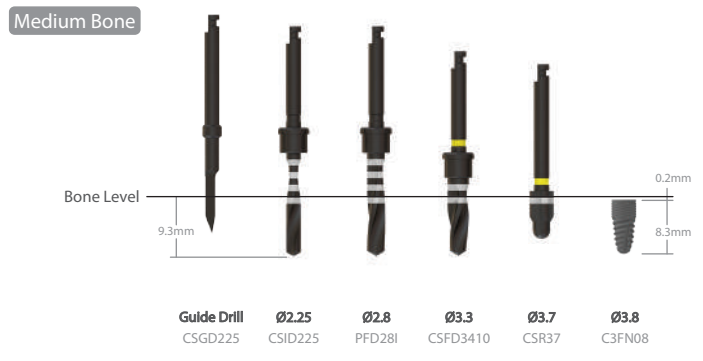
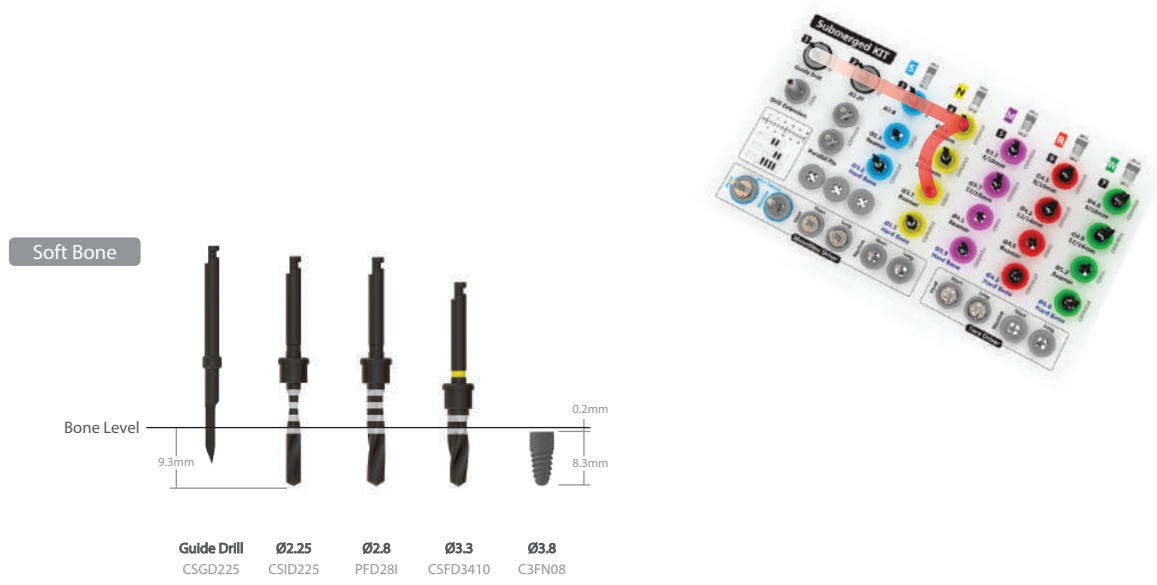
## Ø3.5 x 10mm Fixture - Drilling Sequence

## Ø3.5 x 14mm Fixture - Drilling Sequence



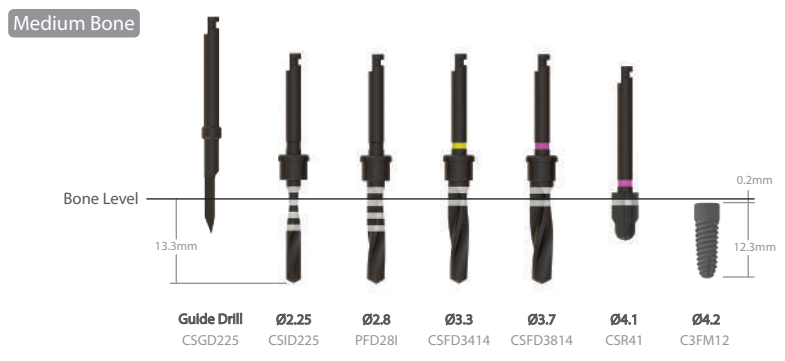
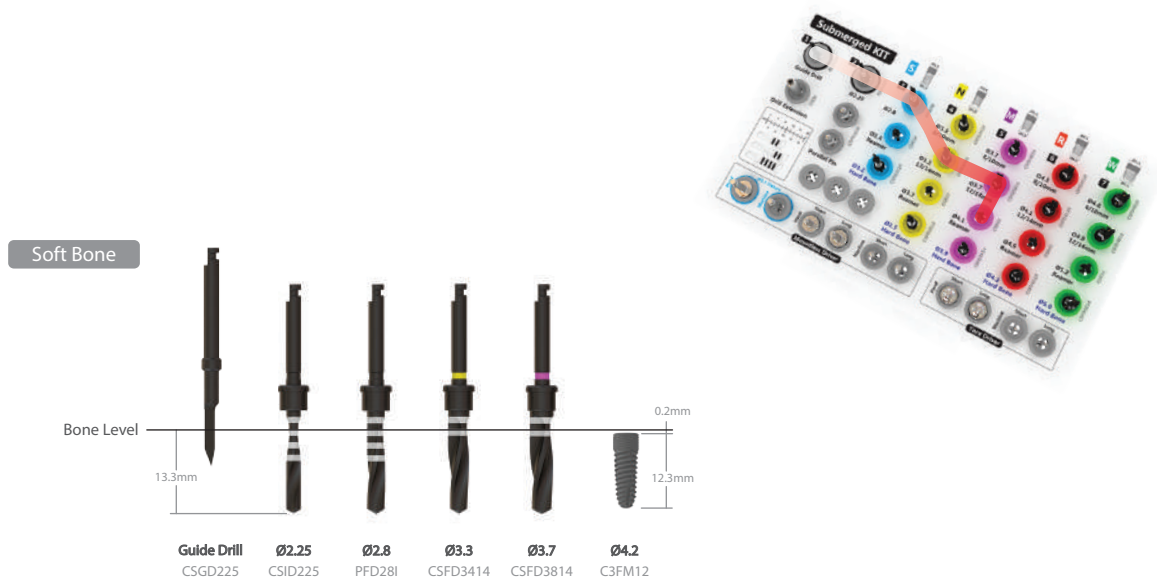
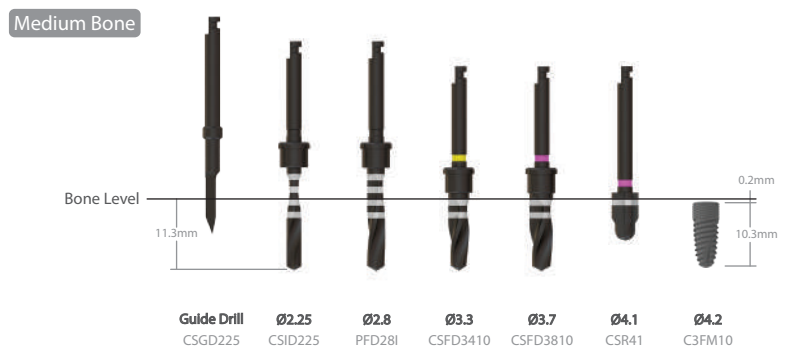
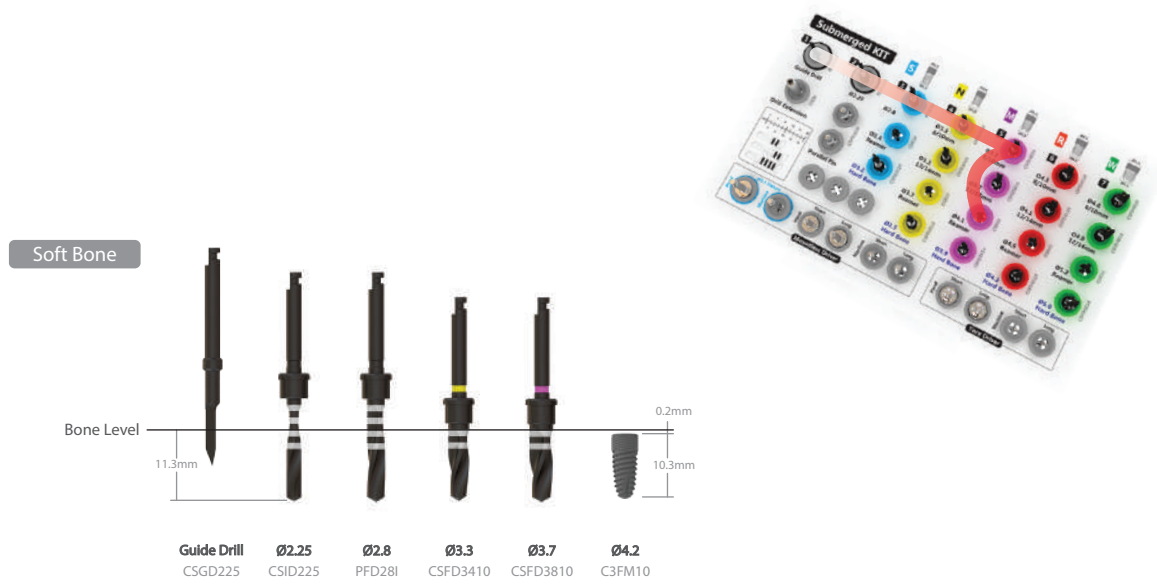
## Ø3.8 x 8mm Fixture - Drilling Sequence

## Ø3.8 x 14mm Fixture - Drilling Sequence



## Ø4.2 x 10mm Fixture - Drilling Sequence

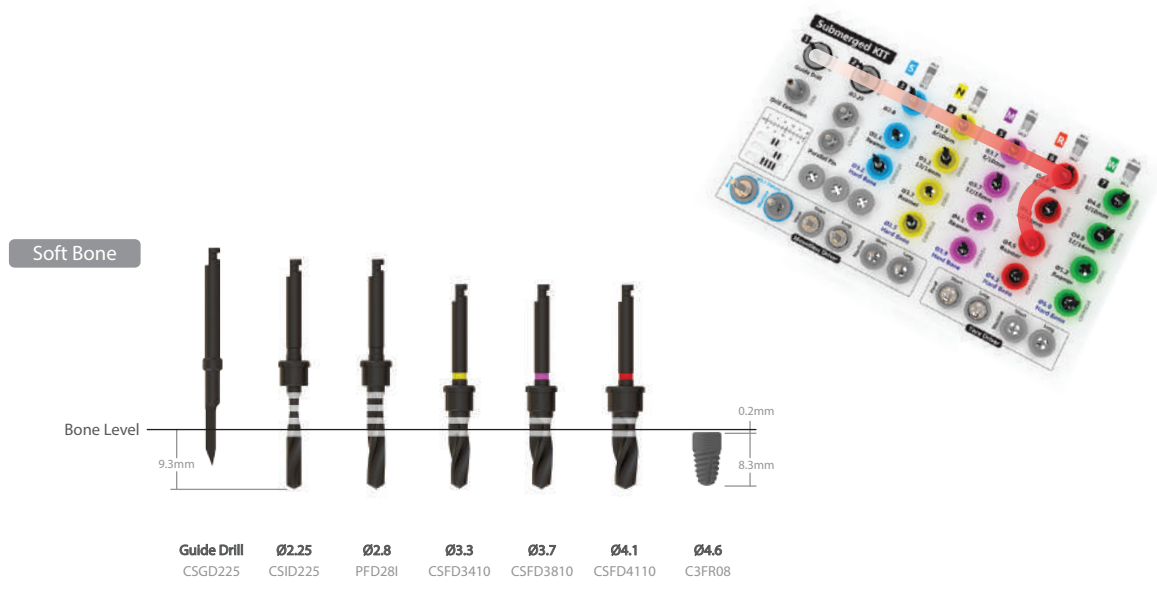
## Ø4.2 x 12mm Fixture - Drilling Sequence



## Ø4.6 x 8mm Fixture - Drilling Sequence

## Ø4.6 x 14mm Fixture - Drilling Sequence

14  
Submerged



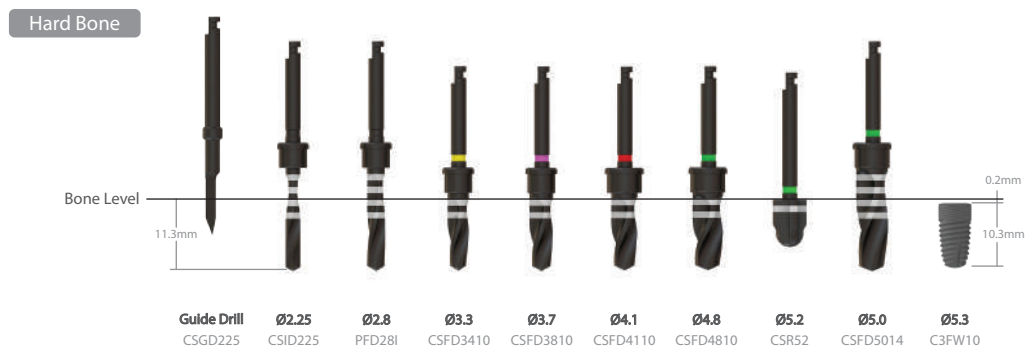
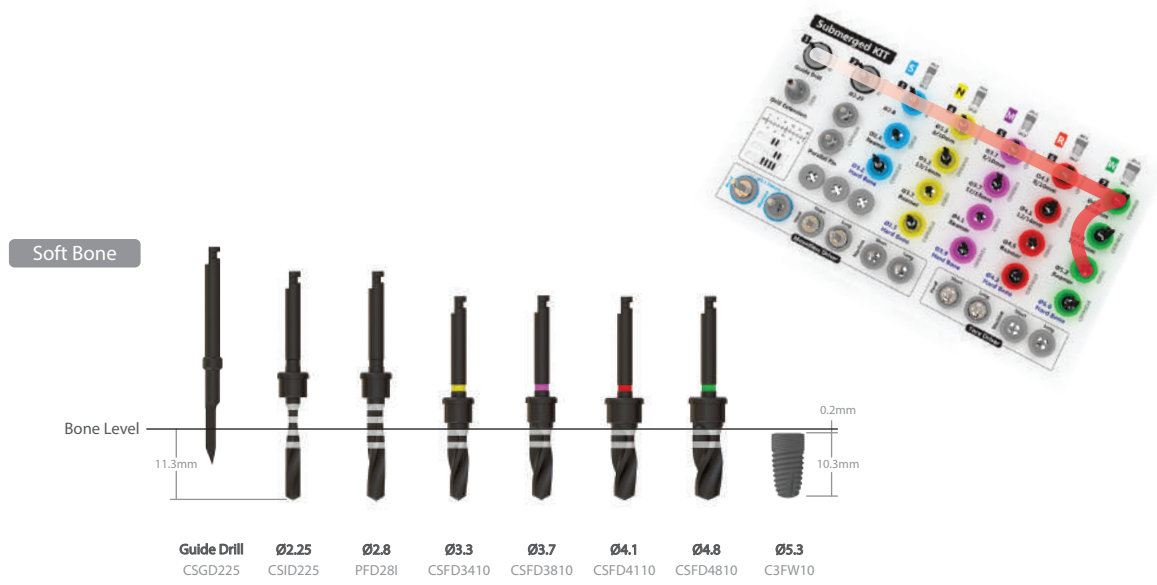
15  
Submerged





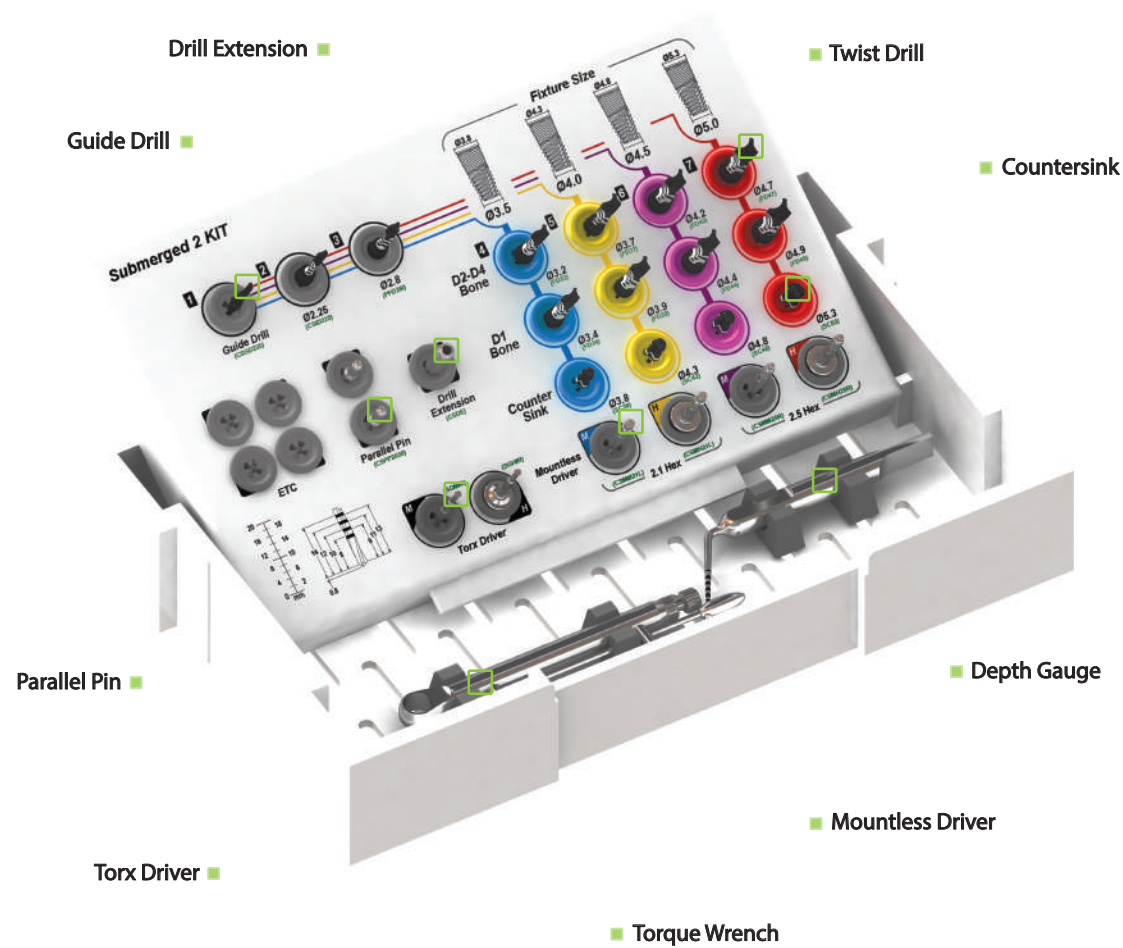
## Ø5.3 x 10mm Fixture - Drilling Sequence

## Ø5.3 x 12mm Fixture - Drilling Sequence

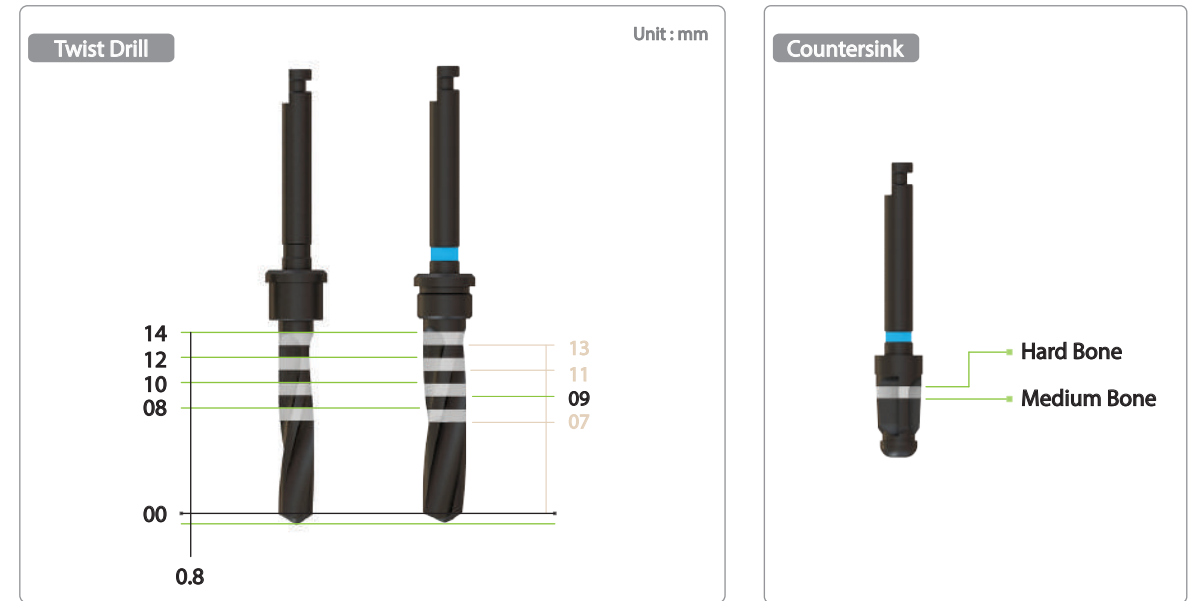


# Submerged II KIT
















Pro' Code : SK2













## Features



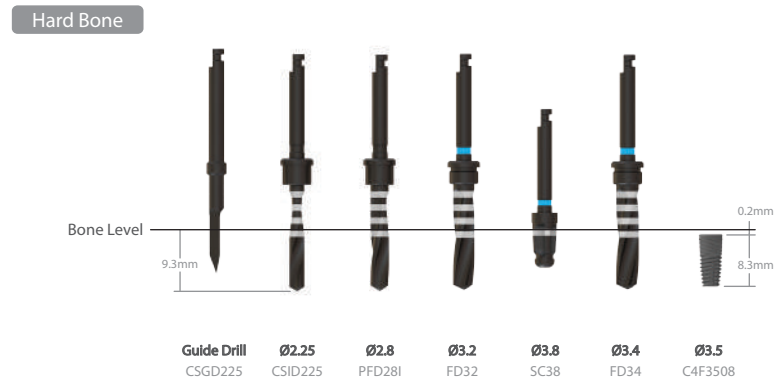
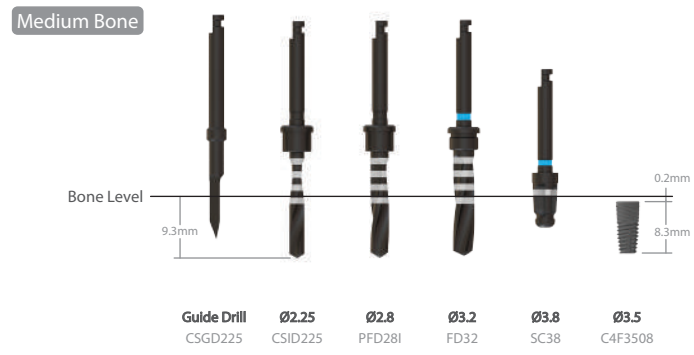
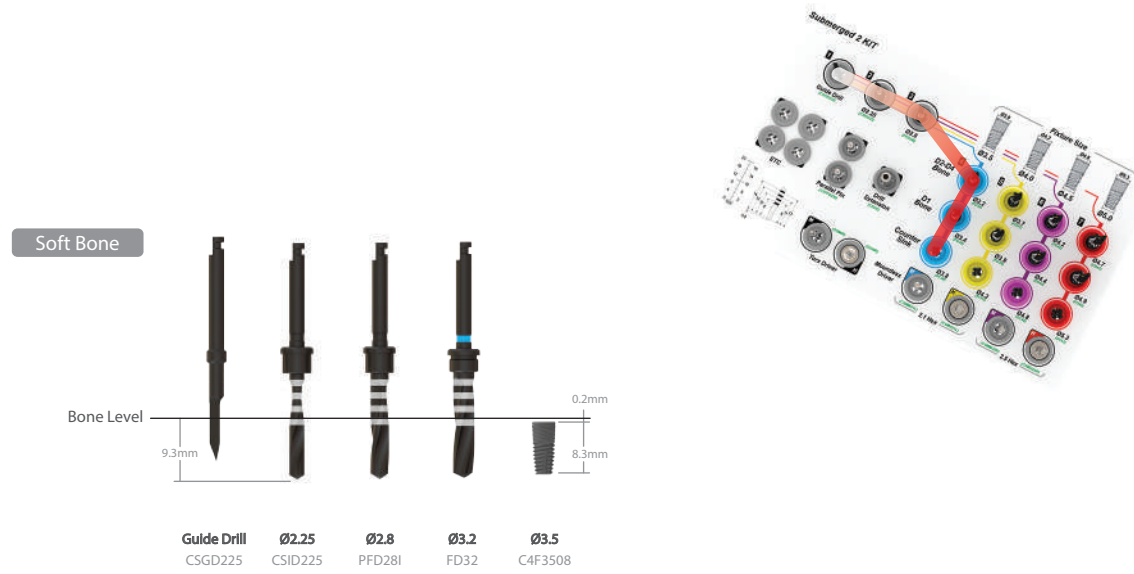
## Component

No	Part Name	Picture	Diameter (Ø)	Length(mm)	Pro' Code
1	Guide Drill		2.25	34	CSGD225
2	Initial Drill		2.25	36	CSID225
3	Twist Drill		2.8	36	PFD28I
4	Twist Drill		3.2	36	FD32
5	Twist Drill		3.4	36	FD34
6	Twist Drill		3.7	36	FD37
7	Twist Drill		3.9	36	FD39
8	Twist Drill		4.2	36	FD42
9	Twist Drill		4.4	36	FD44
10	Twist Drill		4.7	36	FD47
11	Twist Drill		4.9	36	FD49
12	Countersink		3.8	24.5	SC38
13	Countersink		4.3	24.5	SC43
14	Countersink		4.8	24.5	SC48
15	Countersink		5.3	24.5	SC53

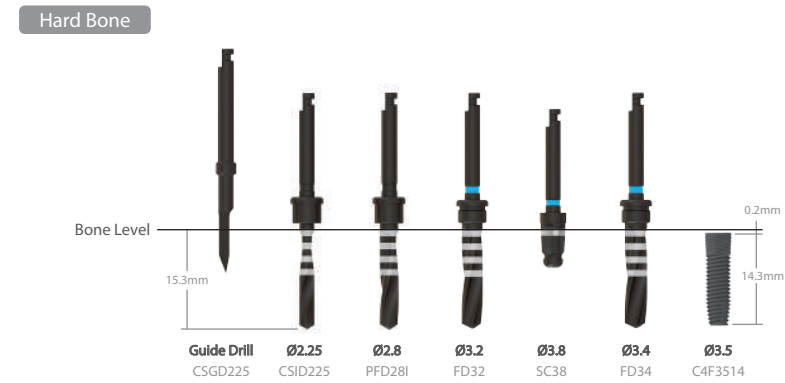
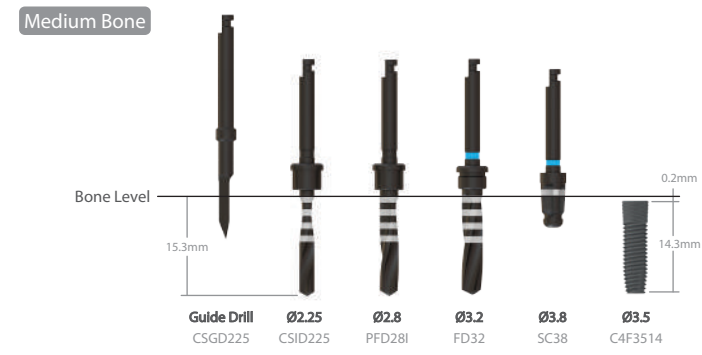
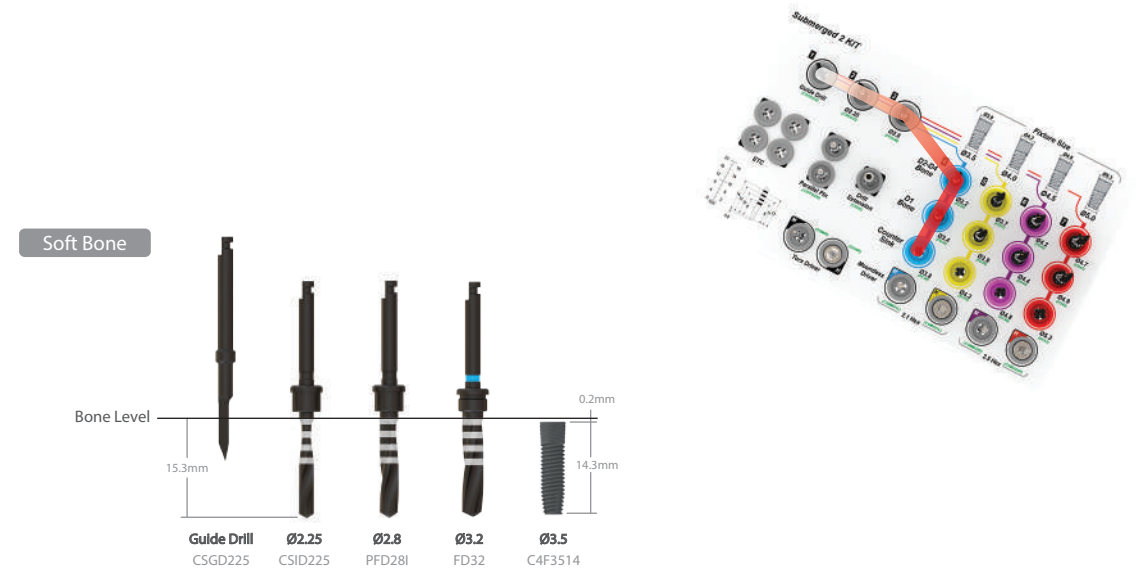
## Component

No	Part Name	Picture	Type	Length(mm)	Pro' Code
16	Mountless Driver (2.1 Double Hex)		Machine	31	MDM14-21
17	Mountless Driver (2.1 Double Hex)		Hand	24	MDH14-21
18	Mountless Driver (2.5 Hex)		Machine	33	MDM14-25
19	Mountless Driver (2.5 Hex)		Hand	26	MDH14-25
20	Torx Driver		Machine	32	TDM18
21	Torx Driver		Hand	26	TDH18
22	Parallel Pin		Hand	26	CSPP2030
23	Drill Extension		Machine	27	CSDE
24	Torque Wrench		Hand	85	TWI/RWI
25	Depth Gauge		Hand	75	CSDG

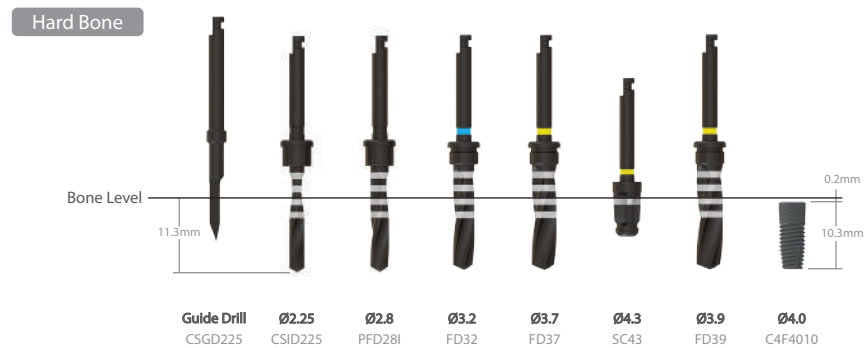
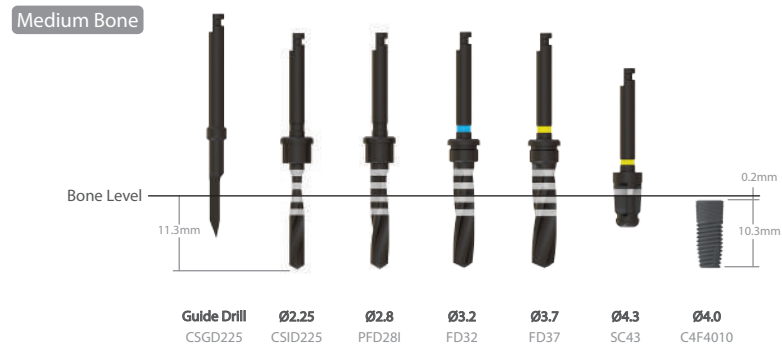
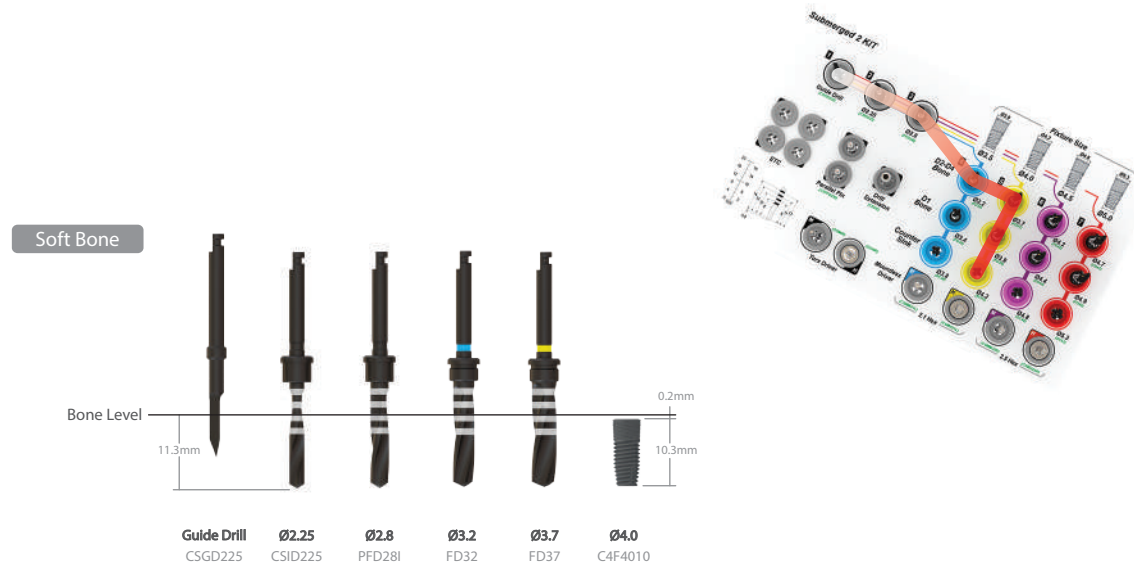
## Ø3.5 x 8mm Fixture - Drilling Sequence



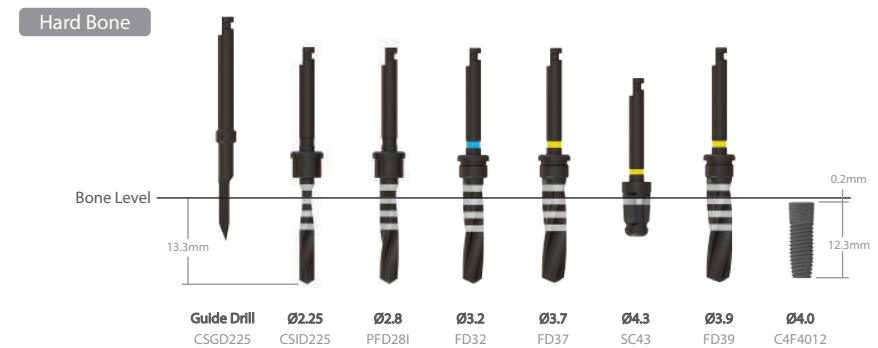
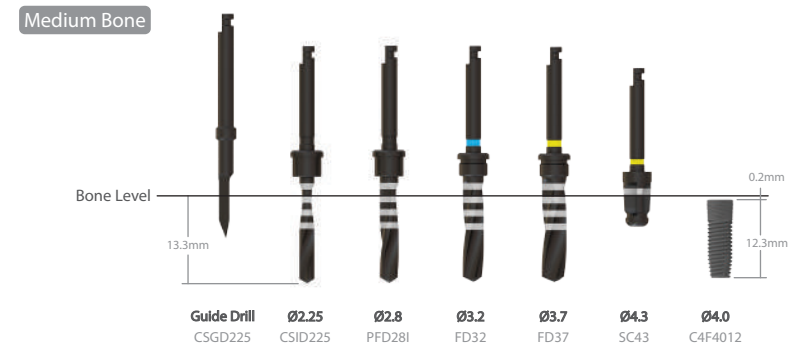
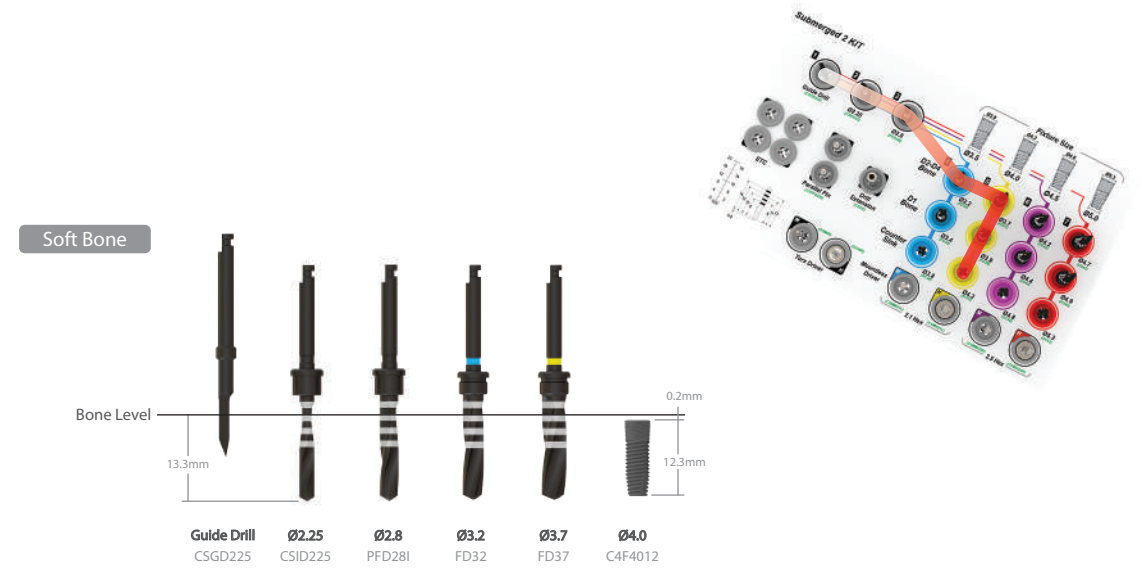
## Ø3.5 x 14mm Fixture - Drilling Sequence



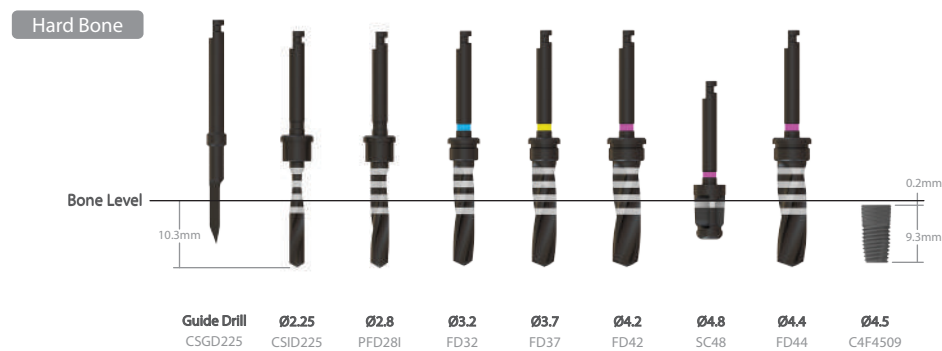
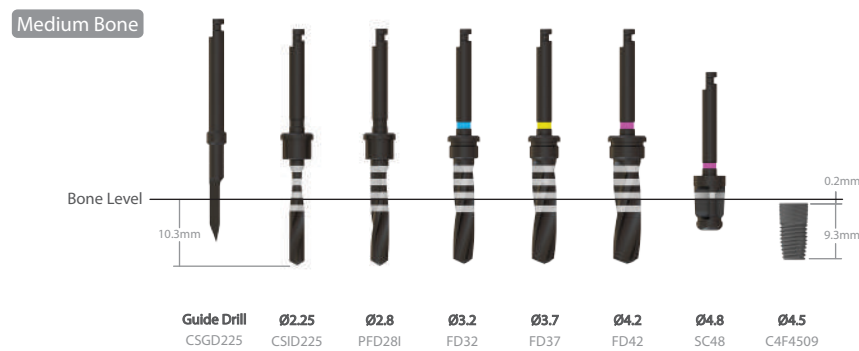
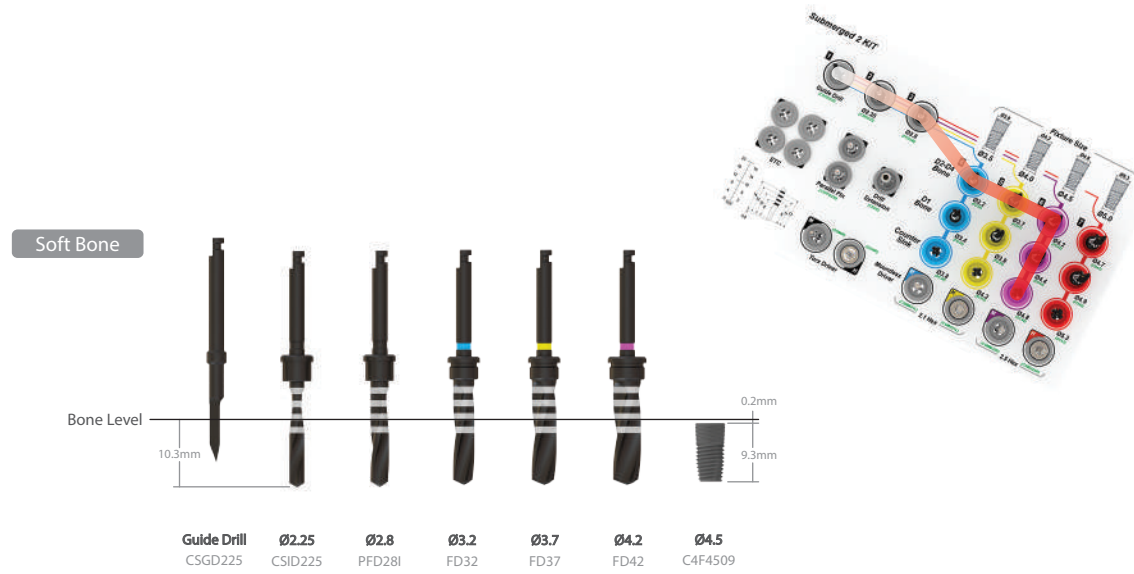
## Ø4.0 x 10mm Fixture - Drilling Sequence



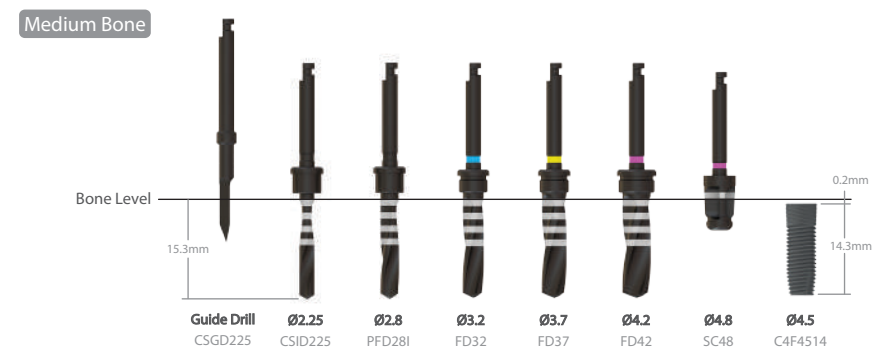
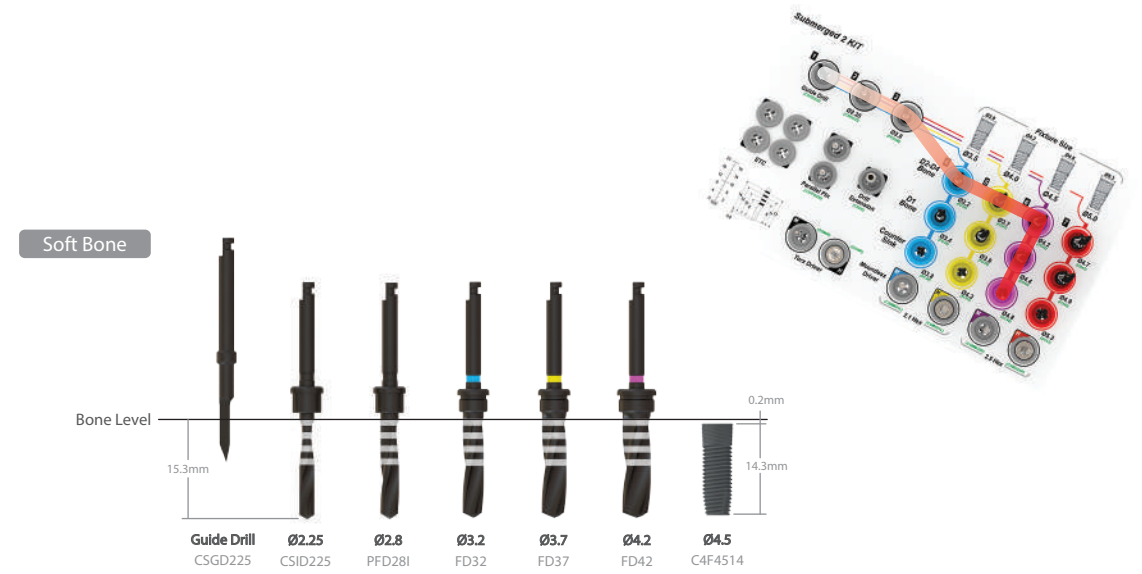
## Ø4.0 x 12mm Fixture - Drilling Sequence



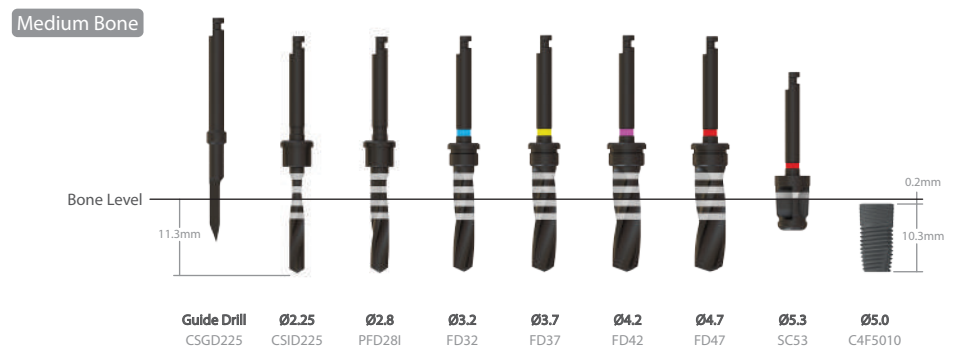
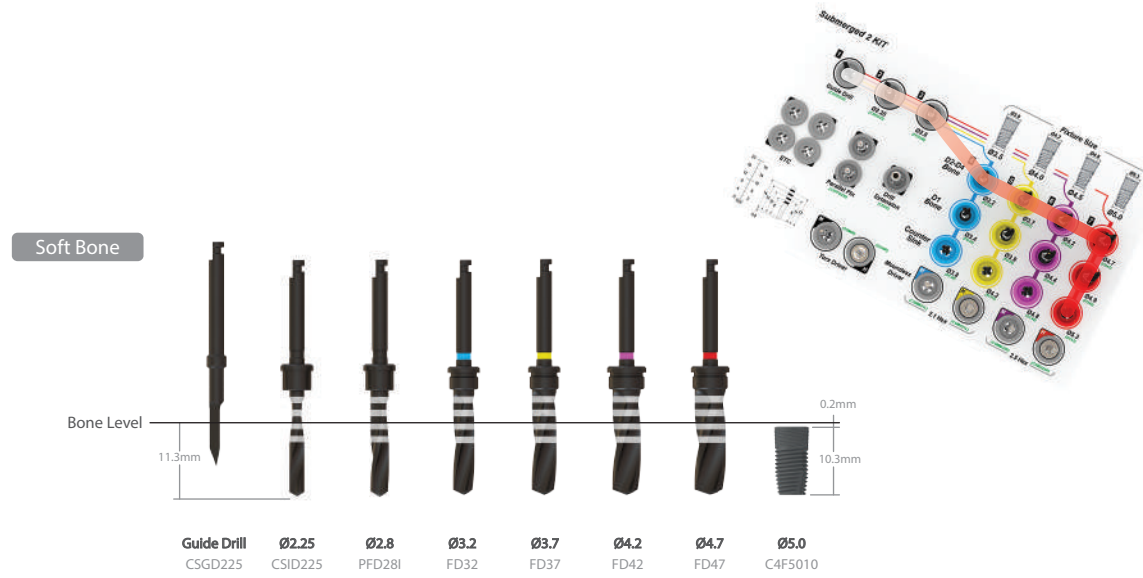
## Ø4.5 x 9mm Fixture - Drilling Sequence



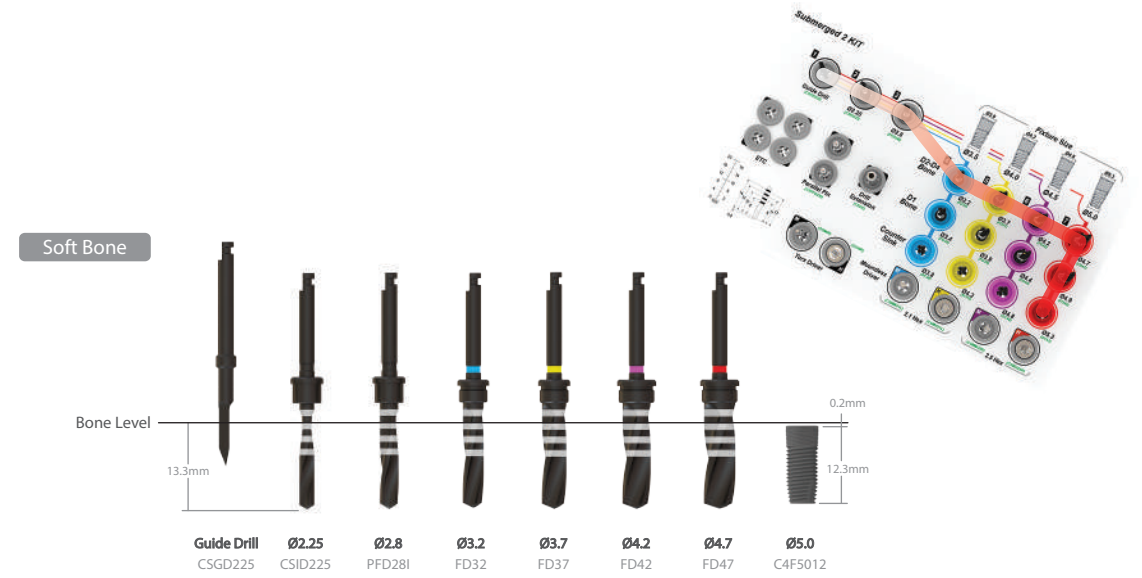
## Ø4.5 x 14mm Fixture - Drilling Sequence



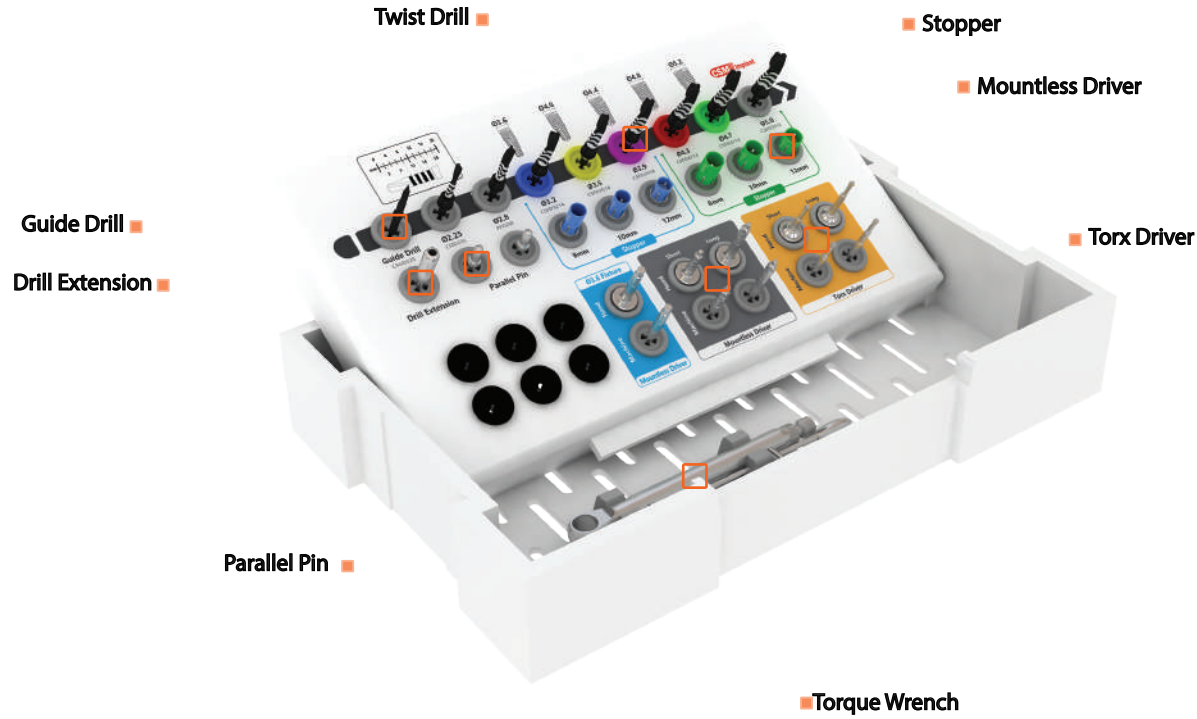
## Ø5.0 x 10mm Fixture - Drilling Sequence



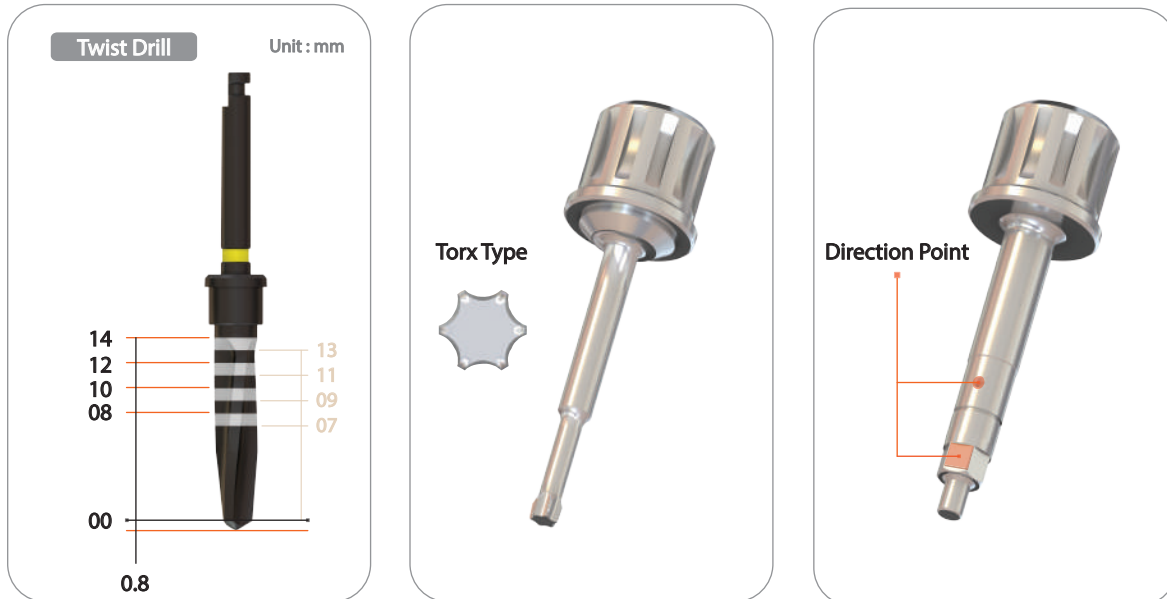
## Ø5.0 x 12mm Fixture - Drilling Sequence



# Submerged III KIT Pro' Code : SK3R



## Features

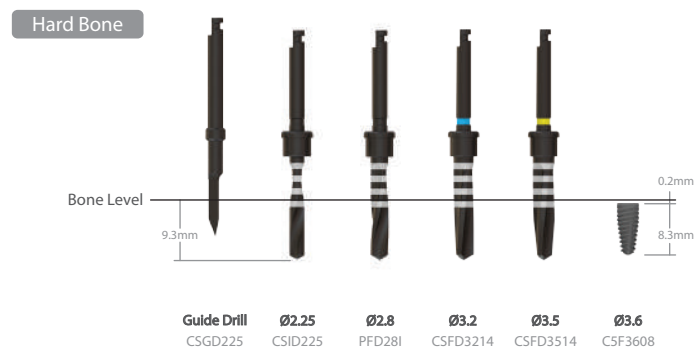
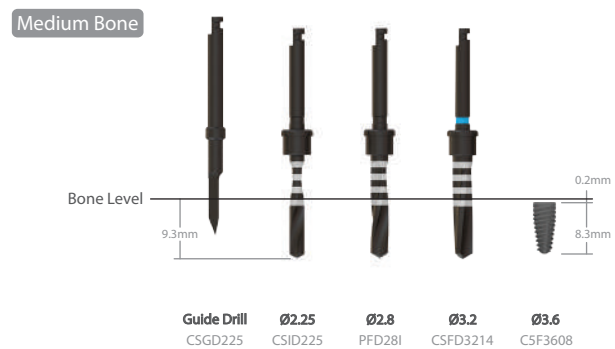
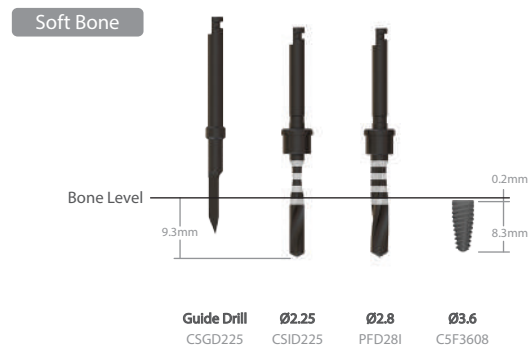


## Component

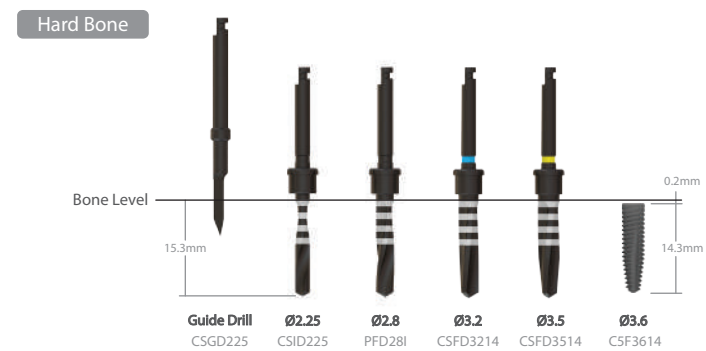
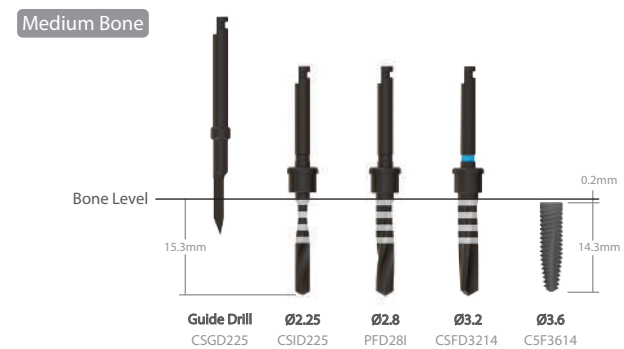
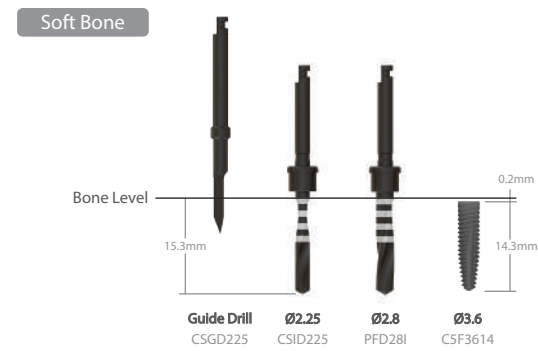
No	Part Name	Picture	Diameter (Ø)	Length(mm)	Pro' Code
1	Guide Drill		2.25	34	CSGD225
2	Initial Drill		2.25	36	CSID225
3	Twist Drill		2.8	36	PFD28I
4	Twist Drill		3.2	36	CSFD3214
5	Twist Drill		3.5	36	CSFD3514
6	Twist Drill		3.9	36	CSFD3914
7	Twist Drill		4.3	36	CSFD4314
8	Twist Drill		4.7	36	CSFD4714
9	Twist Drill		5.0	36	CSFD5014
10	Stopper		5.2	10 08 06	SS-08 SS-10 SS-12
11	Stopper		2	10 08 06	SB-08 SB-10 SB-12
12	Drill Extension		Machine	27	CSDE
13	Parallel Pin		Hand	26	CSPP2030
14	Torx Driver		Hand	26	TDH18 TDH13
15	Torx Driver		Machine	26	TDM18 TDM08
16	Mountless Driver (2.1 Double Hex) (2.5 Hex)		Hand	24	MDH14-21 MDH08-25 MDH14-25
17	Mountless Driver (2.1 Double Hex) (2.5 Hex)		Machine	26	MDM14-21 MDM08-25 MDM14-25
18	Torque Wrench		Hand	85	TWI/RWI



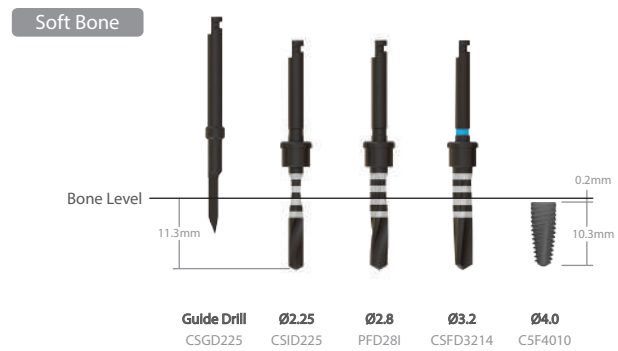
## Ø3.6 x 8mm Fixture - Drilling Sequence



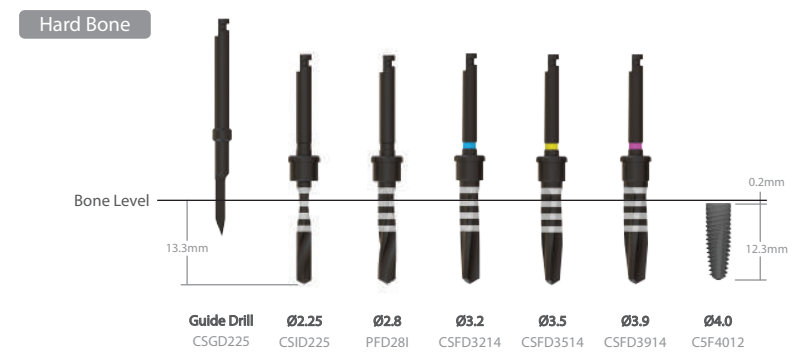
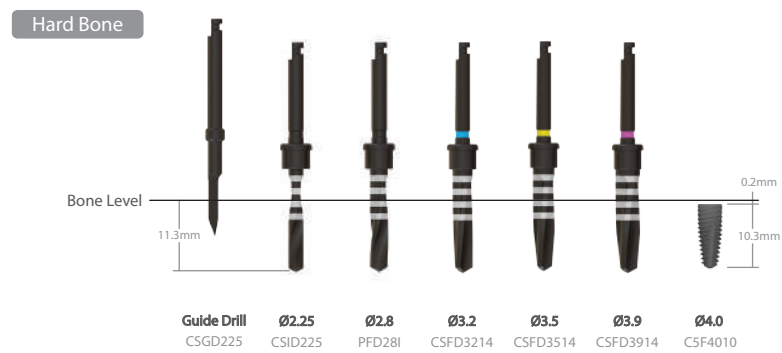
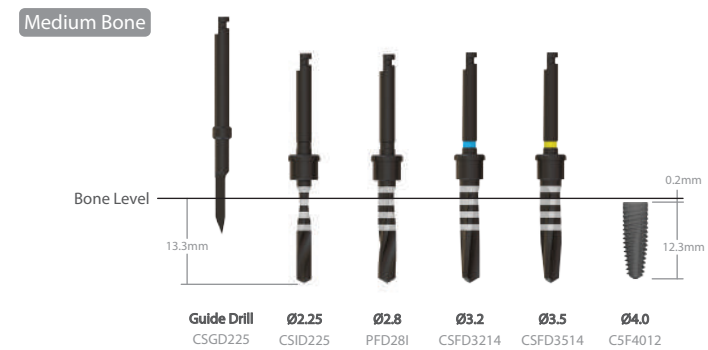
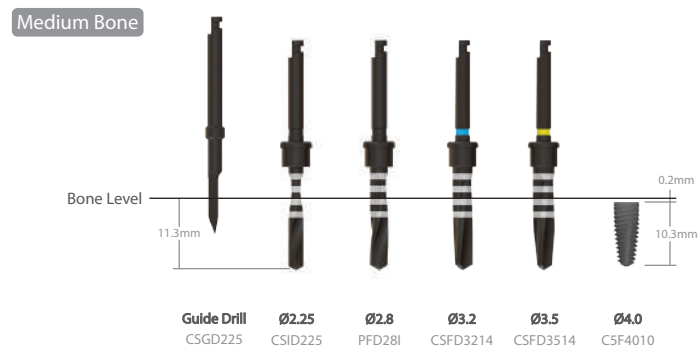
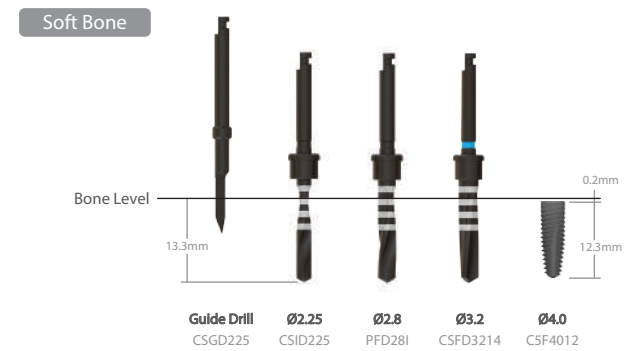
## Ø3.6 x 14mm Fixture - Drilling Sequence



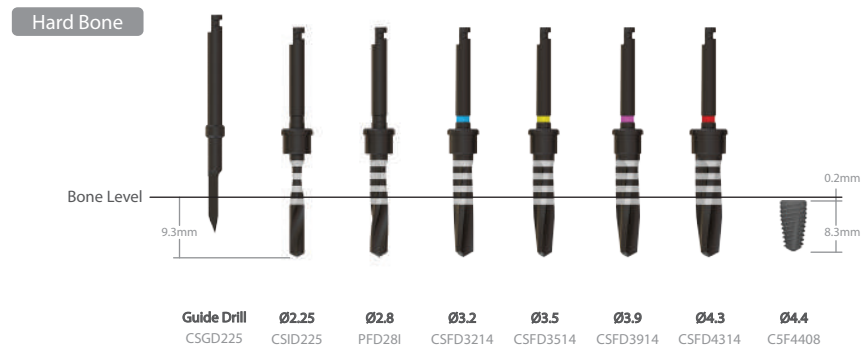
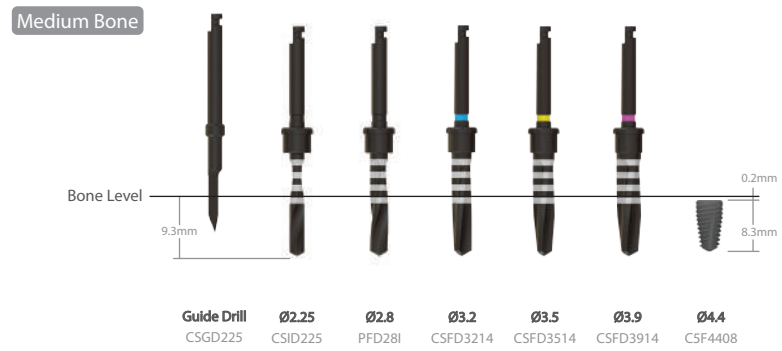
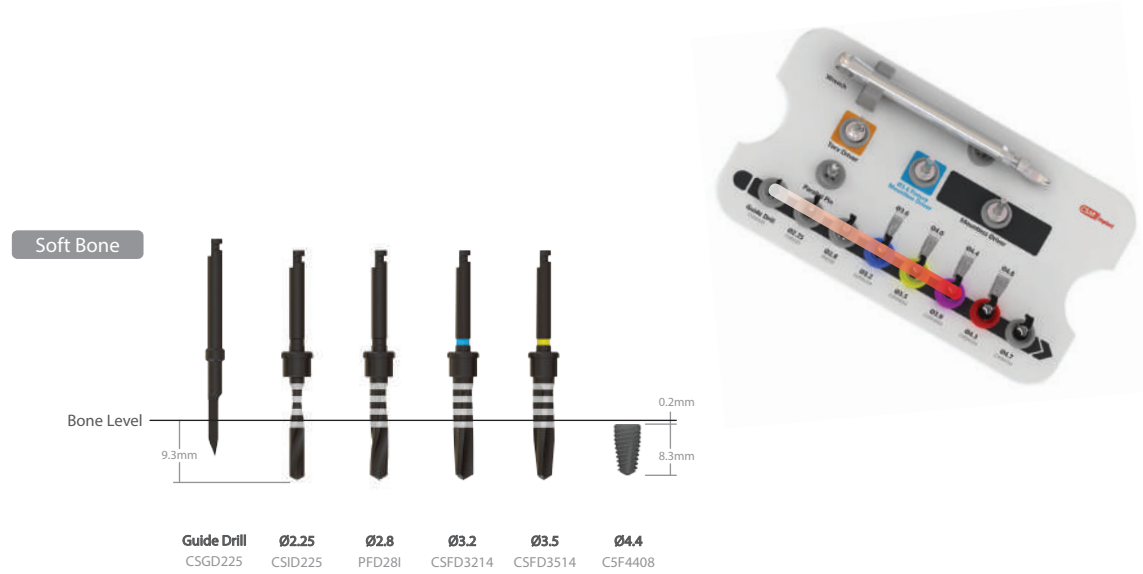
## Ø4.0 x 10mm Fixture - Drilling Sequence



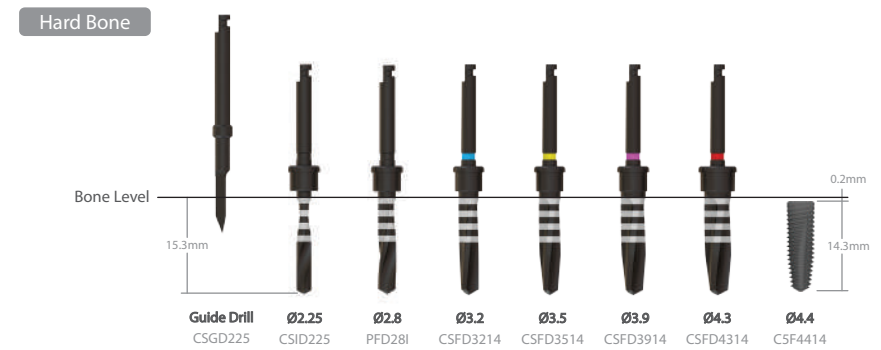
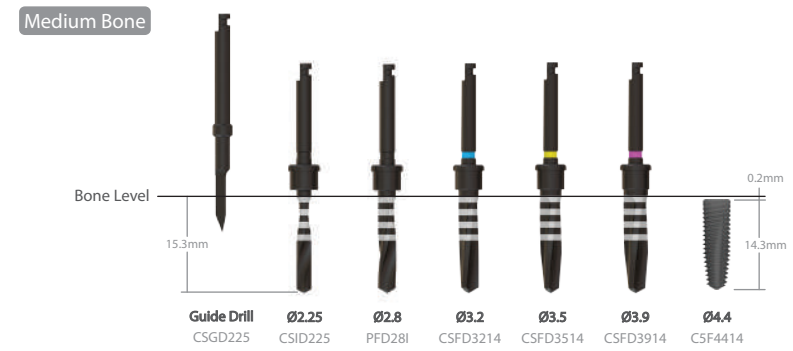
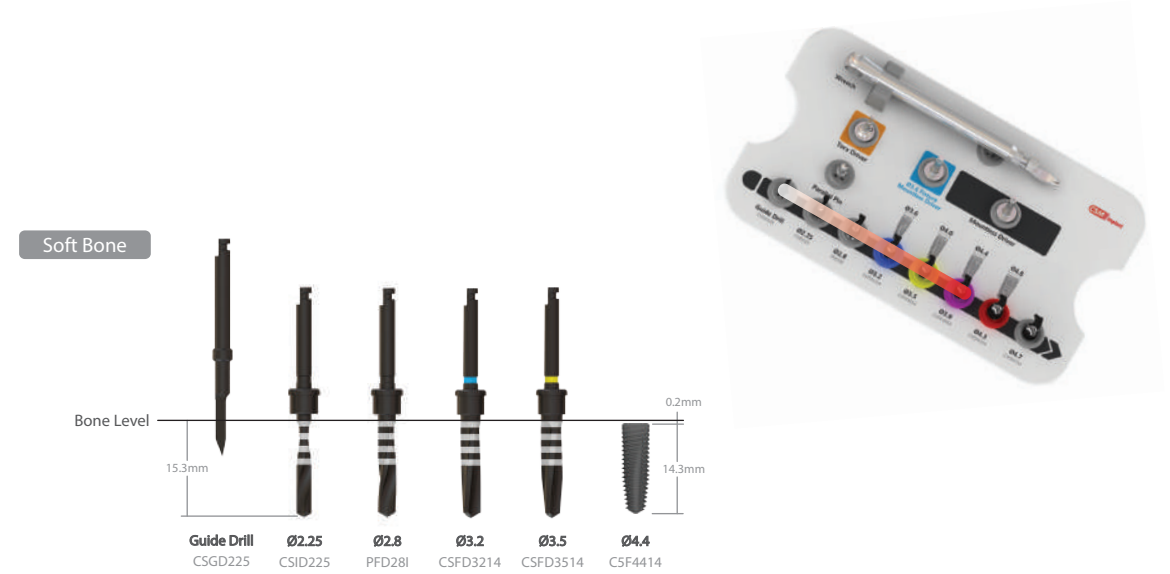
## Ø4.0 x 12mm Fixture - Drilling Sequence



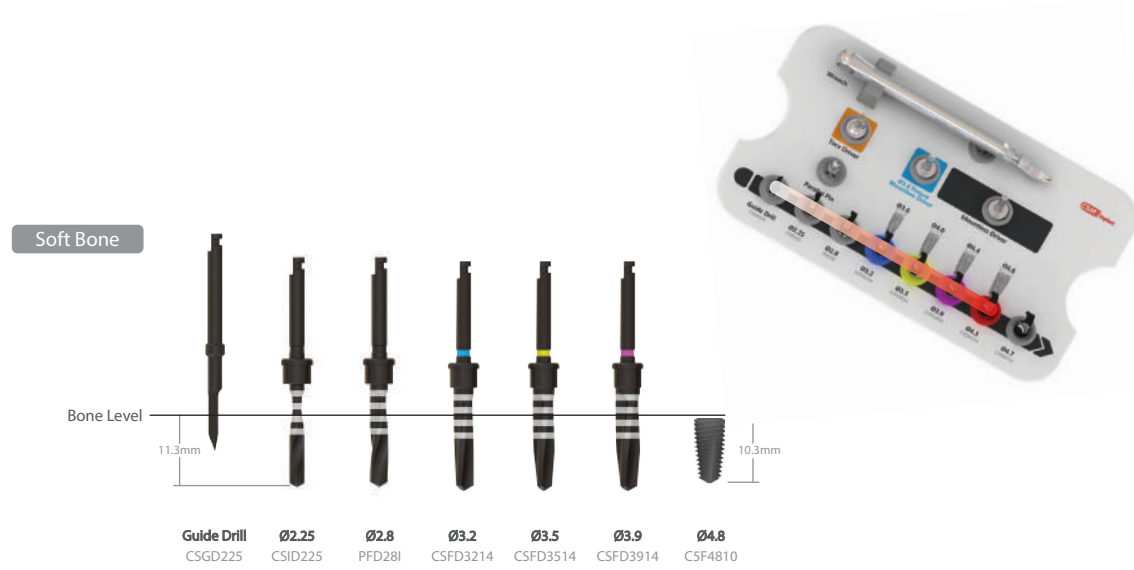
## Ø4.4 x 8mm Fixture - Drilling Sequence



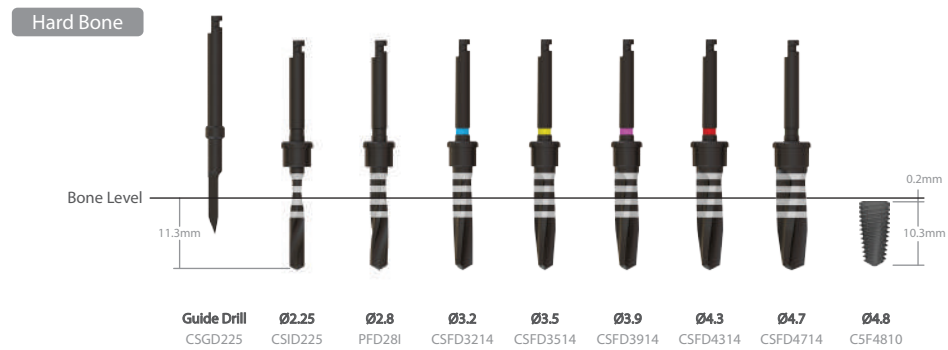
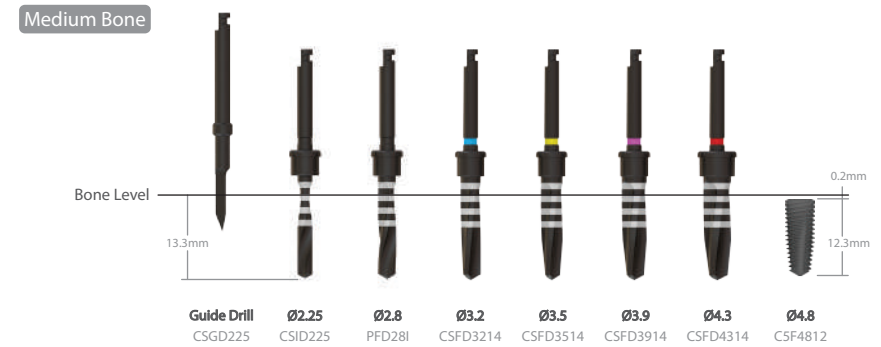
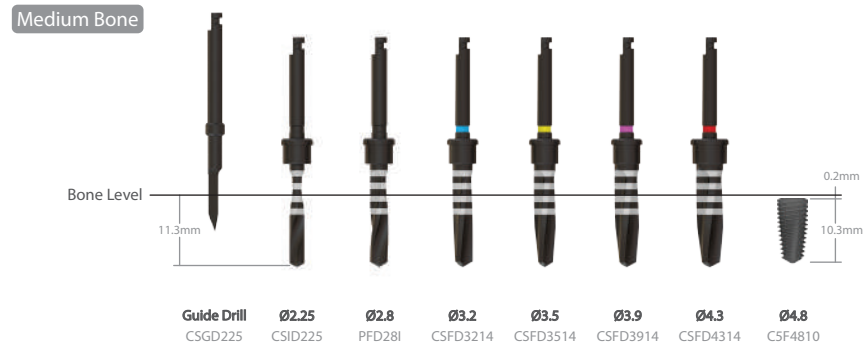
## Ø4.4 x 14mm Fixture - Drilling Sequence















## Ø4.8 x 10mm Fixture - Drilling Sequence



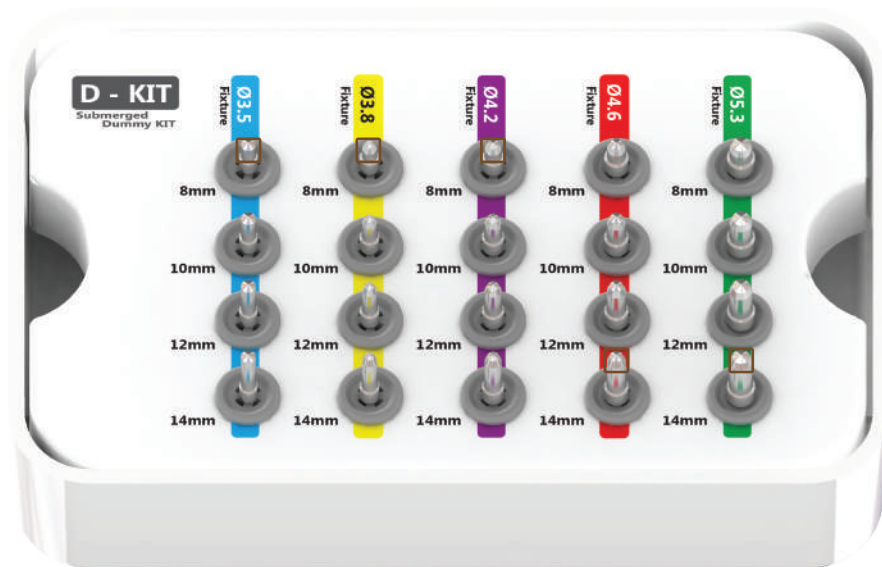
## Ø4.8 x 12mm Fixture - Drilling Sequence



## Dummy Kit Pro' Code : DK




Length(mm)	Picture	Pro' Code	Picture	Pro' Code	Picture	Pro' Code
8mm		C3FS08D		C3FN08D		C3FM08D
10mm		C3FS10D		C3FN10D		C3FM10D
12mm		C3FS12D		C3FN12D		C3FM12D
14mm		C3FS14D		C3FN14D		C3FM14D

■ Ø3.5 Dummy                      ■ Ø3.8 Dummy                      ■ Ø4.2 Dummy

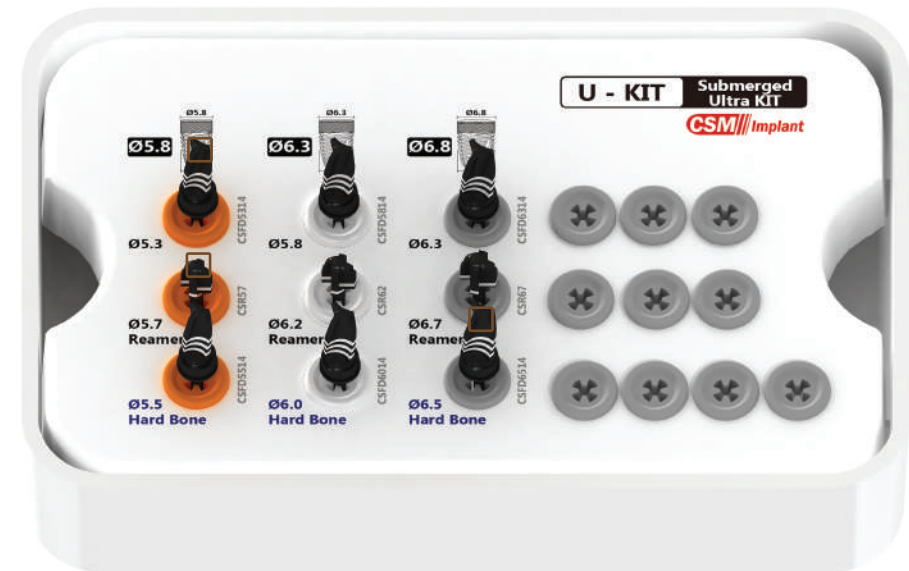


Length(mm)	Picture	Pro' Code	Picture	Pro' Code
8mm		C3FR08D		C3FW08D
10mm		C3FR10D		C3FW10D
12mm		C3FR12D		C3FW12D
14mm		C3FR14D		C3FW14D

## Submerged Ultra - KIT Pro Code : UK

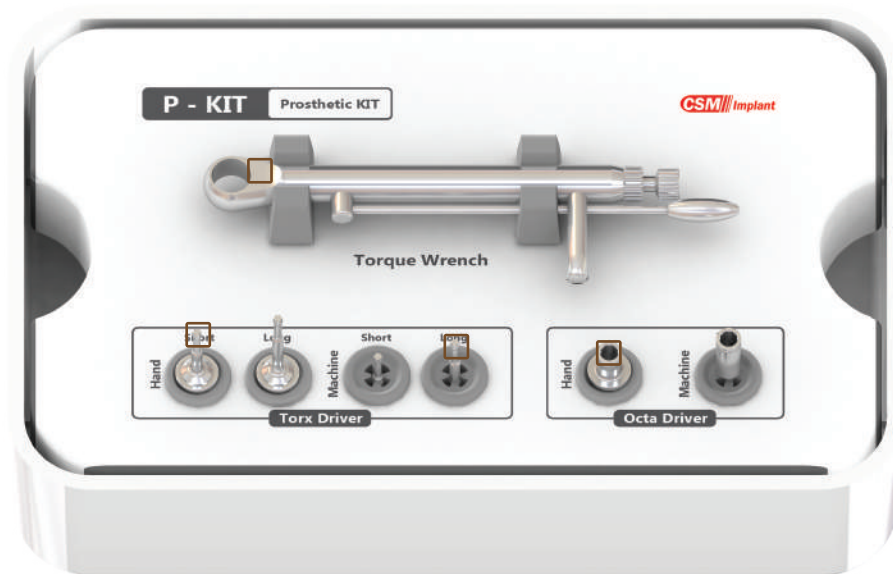
Picture	Diameter (Ø)	Pro' Code
	5.3	CSFD5314
	5.8	CSFD5814
	6.3	CSFD6314

■ Final Drill



Picture	Diameter (Ø)	Pro' Code	Picture	Diameter (Ø)	Pro' Code
	5.7	CSR57		5.5	CSFD5514
	6.2	CSR62		6.0	CSFD6014
	6.7	CSR67		6.5	CSFD6514

# Prosthetic - KIT Pro' Cod : PK



### Torx Driver (Hand)

Picture	Pro' Code
	TDH08
	TDH18

### Torx Driver (Machine)

Picture	Pro' Code
	TDM08
	TDM18

### Octa Driver

Picture	Pro' Code
	MDHI
	MDMI

# Aid - KIT Pro'Code : MK



### Tissue Punch

Picture	Diameter (Ø)	Pro' Code
	3.5	CTP35
	5.0	CTP50

### Center Tissue Punch

Picture	Diameter (Ø)	Pro' Code
	4.0	CTP40C
	5.0	CTP50C



### Lindman Drill

Picture	Diameter (Ø)	Pro' Code
	2.1	CLD21
	2.6	CLD26

### Fixture Remove

Picture	Diameter (Ø)	Pro' Code
	5.0	CTD50R
	6.0	CTD60R

### Trepine Drill

Picture	Diameter (Ø)	Pro' Code
	2.0	CTD20
	4.0	CTD40
	4.5	CTD45
	6.0	CTD60
	8.0	CTD80

# Screw Remover - KIT

## Pro' Code : RK2

Pro' Code HA

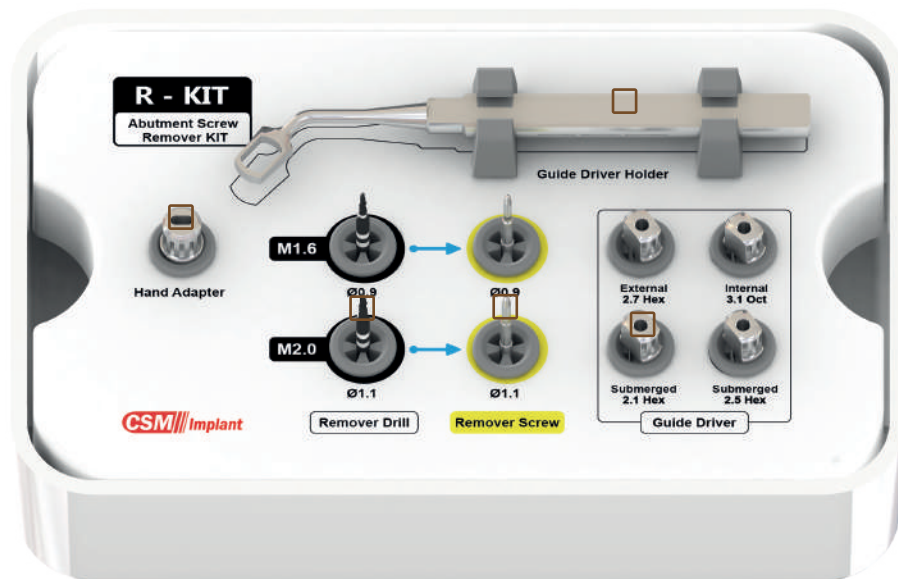


Hand Adapter ■

Pro' Code GDH



Guide Driver Holder ■



### Remover Drill

Picture	Diameter (Ø)	Pro' Code
	0.9	RD-09
	1.1	RD-11

### Remover Screw

Picture	Diameter (Ø)	Pro' Code
	0.9	RS-09
	1.1	RS-11

### Guide Driver

GD-27	GD-31	GD-21	GD-25
*External Fixture 2.7mm Hexagon	*Internal Fixture 3.1mm Octagon	*Submerged Fixture 2.1mm Hexagon	*Submerged Fixture 2.5mm Hexagon

# R - KIT Product User Guide



Check the location of the broken screw inside of fixture.



Choose and connect the guide driver with fixture which has same connection size and shape.



In case, hard to hold the guide driver in patient's mouth (posterior area), use a guide driver holder. (Fingers can be used in general)



Use Remover drill, make a hole on the top of the broken screw. (1.2~1.5mm)  
\*RPM : 2000Rpm (Required Irrigation)  
\*Direction of rotation : Counter clockwise



Remove the broken screw with the remover driver. (Vertically giving the power)  
\*Use 35Ncm ~ Max 45Ncm



Take the broken screw out of mouth.

[Note]  
\*Before using CSM R-KIT, user shall understand the use guide.  
\*Fixture inner thread can be damaged if used wrong type guide driver or without guide driver.  
\*Remover drill shall be used at optimal RPM, (2000RPM)  
\*For the remover drill, do not press too much or shake side to side while making a hole on the top of the broken screw. (It can be broken)  
\*The remover driver can be broken with more than 45Ncm excessive force when remove the broken screw.

# Crestal Sinus KIT (I-KIT)

## Pro' Code : CSK

Picture	Pro' Code	Picture	Pro' Code	Picture	Pro' Code
	IDS-03		ID225		ID25
	IDS-04		ID28		ID30
	IDS-05		ID32		ID35
	IDS-06		CSFD37		
	IDS-07				
	IDS-08				
	IDS-09				
	IDS-10				
	IDS-11				
	IDS-12				

**Twist Drill**

**I-Drill**

**Depth Gauge**  
Pro' Code CDG

**Stopper**

**Spreader Driver**  
Pro' Code CSD

**Bone Carrier**  
Pro' Code CBO

**Bone Condenser**  
Pro' Code CBC

# I - KIT Product User Guide

\* How to use < 6mm Residual bone height / 4mm Elevation of the membrane/ Fixture Ø4.6/8mm >

**01**

\* When performing this technique, through radiographic or cone beam CT option to determine the residual bone height.

**02**

\* Use Guide drill, mark anticipated implant location and drilling cortical bone.  
\* RPM : 1000-1200RPM

**03**

\* Ø2.25 Twist drill mounted 5mm stopper (1mm lower than Residual bone) and drilling. Drilling, Using a 5mm stopper with Ø2.25 Twist drill.  
\* RPM : 1000-1200RPM

**04**

\* Ø2.8 Twist drill mounted 5mm stopper and drilling. Drilling, Using a 5mm stopper with Ø2.8 Twist drill.  
\* RPM : 1000-1200RPM

**05**

\* Ø3.2 Twist drill mounted 5mm stopper and drilling. Drilling, using a 5mm Stopper with Ø3.2 Twist drill.  
\* RPM : 1000-1200RPM

**06**

\* Ø3.7 Twist drill mounted 5mm stopper and drilling. Drilling, using a 5mm Stopper with Ø3.7 Twist drill.  
\* RPM : 1000-1200RPM

**07**

\* Using a 6mm stopper with the Ø3.7 I-Drill for final drilling and lifting of membrane. (If you do not have the feeling of being perforated than use 1mm higher stopper and try again)

**08**

\* Confirm the membrane lifting and measuring the residual bone thickness with Depth gauge.

**09**

\* Carry the bone grafting materials into the hole. (1mm membrane lifting need 0.12cc bone materials : Allogenic, Xenogenic, Synthetic bone)  
\* One time insertion 0.05cc with bone carrier.

**10**

\* lifting membrane with Bone condenser, gently push the inserted bone materials and compress. (Using a 6mm Stopper with Bone condenser)

**11**

\* Spread the bone grafting material with Bone spreader. (Using 6mm stopper)  
\* RPM : 30RPM

**12**

\* Using a mountless driver (for Ø4.6/8mm) and fixture insertion into prepared hole. (Depends on patient's bone condition, can decide whether to use the final drill or reamer)

[Note]  
 \* Selection of I-Drill.  
 - Ø3.8 / Ø4.2 fixture : Use Ø2.5 / Ø3.0 I-Drill.  
 - Ø4.6 / Ø5.3 fixture : Use Ø3.5 I-Drill.  
 \* Lateral sinus kit is recommended, if residual bone left less than 4mm.  
 \* Recommend a maximum elevation height to 6mm.  
 \* 2mm higher elevation is required than the desired length of the fixture.



## Implant Surgical Instrument Set

No	Part Name	Picture	Pro' Code
1	Periosteal Elevator (P24G)		PE-01
2	Periosteal Elevator (Molt 9)		PE-02
3	Periosteal Elevator (Prichard)		PE-03
4	Periosteal Elevator (Seldin)		PE-04
5	Periosteal Elevator		LE-01
6	Universal Curette		CU-01
7	Bone Curette (Curved 4)		BC-01
8	Bone Curette (Curved 6)		BC-02

## Implant Surgical Instrument Set

No	Part Name	Picture	Pro' Code
9	Periodontal Chisel (Ochsenbein)		OC-01
10	Deep grip extracting forceps		DG-01
11	Hemostat Forcep (12cm Curved)		HE-01
12	Needle Holder (T/C 16cm)		NH-01
13	Scissor (Irish T/C)		SC-01
14	Scissor (La Grange)		SC-02

## Implant Surgical Instrument Set

No	Part Name	Picture	Pro' Code
15	Towel Clamp (12cm-Suction)		TC-01
16	Bone Rongeur (Mini)		BR-01
17	Caliper (Curved)		GA-01
18	Bone Well (Lid Small)		BW-01
19	Mes Holder (Straight)		MH-01
20	Mes Holder (Stick)		MH-02

## Implant Surgical Instrument Set

No	Part Name	Picture	Pro' Code
21	Mirror + Handle		MI-01
22	Mallet		MA-01
23	Tissue Plier (Double Lock)		TF-01
24	Tissue Plier (Adson 12cm)		TF-02
25	Wide Pincette		WP-01
26	Retractor (Minnesota)		RE-01
27	Periotome		PT-01