SuperLine Product / Manual Catalog 2017



Dentium
For Dentists By Dentists

Specifications are subject to change without any notice.
Some products listed in this catalog are not available in the market due to pending approval.

SPMC-1706 [Rev.1]

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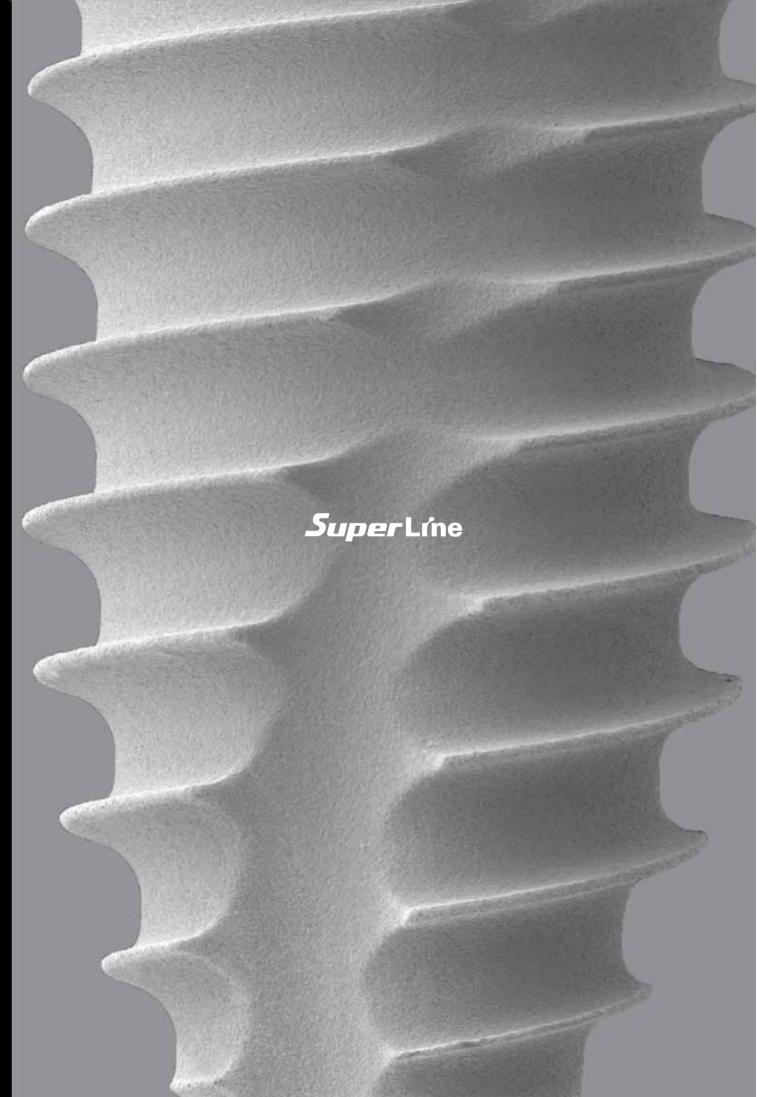
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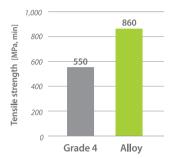




SuperLine Characteristics

Joint stability & Improved strength for zirconia crown

· Abutment material: Grade 4 >> Alloy

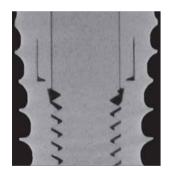


· Long hex design: Improved recognition

Improved soft tissue management

- · Concave abutment design
- · Non-coating

Improved wall thickness



Double thread & Tapered design



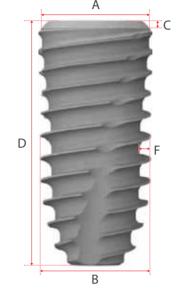
Double threaded tapered body design may provide good success rate in immediate loading cases.

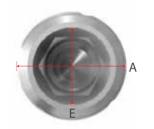
reference: Kim et. al., "A Prospective, 1-year observational study of double-threaded tapered body dental implants with immediate loading" J Prosthet Dent 2015;114:46-51

Increased thread height and sharper



SuperLine Fixture Specifications





Fixture (Mount Free)						1		
Α	A Platform Diameter(Ø)		3.6	4.0	4.4	4.9	6.0	7.0
В	Body Di	iameter(Ø)	3.6	4.0	4.5	5.0	5.0	5.8
•	Bevel	L: 7	1.5	1.5	1.5	1.5	1.5	1.5
	C Height (mm)	L: 8, 10, 12, 14	0	0.1	0.3	0.4	0.7	1.0
D Total Length(mm)				7, 8, 10	, 12, 14			
E	Abutment Interface(Ø)		3.33	3.33	3.33	3.33	3.33	3.33
F	Thread Depth(mm)		0.38	0.40	0.45	0.50	0.55	0.60
Cap Color		Yellow	Green	Blue	Red	Orange	Violet	
Selection Guideline		Anterior	Anterior	Premolar	Molar	Molar	Molar	

SuperLine Fixture

Unit: mm, Scale 1.5:1

 \cdot Cover screw is not included in the package

Ø 3.6 Ø 3.6 10 FX 36 10 SW 12 FX 36 12 SW 14 FX 36 14 SW 7 FX 40 07 SW 8 FX 40 08 SW 17 FX 40 08 SW 18 FX 40 08 SW
Ø 3.6 Ø 3.6 10 FX 36 10 SW 12 FX 36 12 SW 14 FX 36 14 SW 7 FX 40 07 SW 07 08 10 12 +0.1 12 +0.1
12 FX 36 12 SW 14 FX 36 14 SW 7 FX 40 07 SW 07 08 +0.1 10 +0.1 12 -0.1
7 FX 40 07 SW 07 08 10 12 +0.1 12 +0.1
7 FX 40 07 SW 07 08 10 12 +0.1 +0.1 +0.1
/ FX 40 07 3W
Ο ΓΛ 40 00 300
Ø 4.0 Ø 4.0 10 FX 40 10 SW
12 FX 40 12 SW
14 FX 40 14 SW
7 FX 45 07 SW 07 08 10 12 =0.3 =0.3 =0.3
8 FX 45 08 SW
Ø 4.4 Ø 4.5 10 FX 45 10 SW
12 FX 45 12 SW
14 FX 45 14 SW
7 FX 50 07 SW 07 08 10 12 10.4 10.4 10.4
8 FX 50 08 SW
Ø 4.9 Ø 5.0 10 FX 50 10 SW
12 FX 50 12 SW
14 FX 50 14 SW
7 FX 60 07 SW 07 08 10 12
8 FX 60 08 SW
Ø 6.0 Ø 5.0 10 FX 60 10 SW
12 FX 60 12 SW
7 FX 70 07 SW 07 08 10 12 1.0 I.0 I.0 I.0 I.0 I.0 I.0 I.0 I.0 I.0 I
8 FX 70.08 SW
Ø 7.0 Ø 5.8 10 FX 70 10 SW
12 FX 70 12 SW

Cover Screw

Unit: mm, Scale 1.5 : 1

- Single use only
- Must sterilize prior to use



Color	Diameter	Art. No.
Green	Ø 3.6	CS 36
	Ø 3.6	•••

Hex driver: Use no more than 5N-cm of torque when screwing a cover screw to a fixture.

If hex is worn, slot on the head of the product can be used to rotate it.

GBR Healing Abutment

Unit: mm, Scale 1.5:1



Diameter	G/H	Art. No.
Ø 3.3	3.5	GBHAB 33 35
Ø 3.8	0.5	GBHAB 38 05
Ø 3.8	2.0	GBHAB 38 20





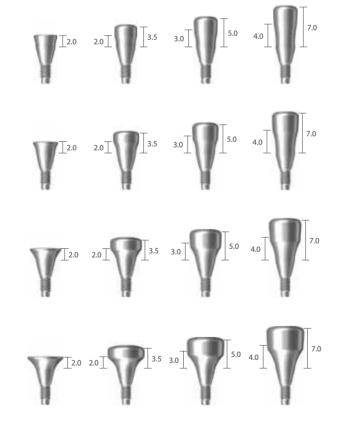


Healing Abutment

Unit: mm, Scale 1.5:1



Diameter	G/H	Н	Art. No.
	2.0	2.0	HAB 40 20 20 E
Ø 4.0	2.0	3.5	HAB 40 20 35 E
Ø 4.0	3.0	5.0	HAB 40 30 50 E
	4.0	7.0	HAB 40 40 70 E
	2.0	2.0	HAB 45 20 20 E
Ø 4.5	2.0	3.5	HAB 45 20 35 E
Ø 4.5	3.0	5.0	HAB 45 30 50 E
	4.0	7.0	HAB 45 40 70 E
	2.0	2.0	HAB 55 20 20 E
Ø 5.5	2.0	3.5	HAB 55 20 35 E
9 3.3	3.0	5.0	HAB 55 30 50 E
	4.0	7.0	HAB 55 40 70 E
	2.0	2.0	HAB 65 20 20 E
Ø 6.5	2.0	3.5	HAB 65 20 35 E
כ.ס ש	3.0	5.0	HAB 65 30 50 E
	4.0	7.0	HAB 65 40 70 E



Healing Abutment

Unit: mm, Scale 1.5:1

Diameter	G/H	Н	Art. No.
Ø 7.5	2.0	3.5	HAB 75 20 35 E
97.5	3.0	5.0	HAB 75 30 50 E
g o 5	2.0	3.5	HAB 85 20 35 E

5.0

Ø 8.5

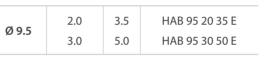
3.0











HAB 85 30 50 E

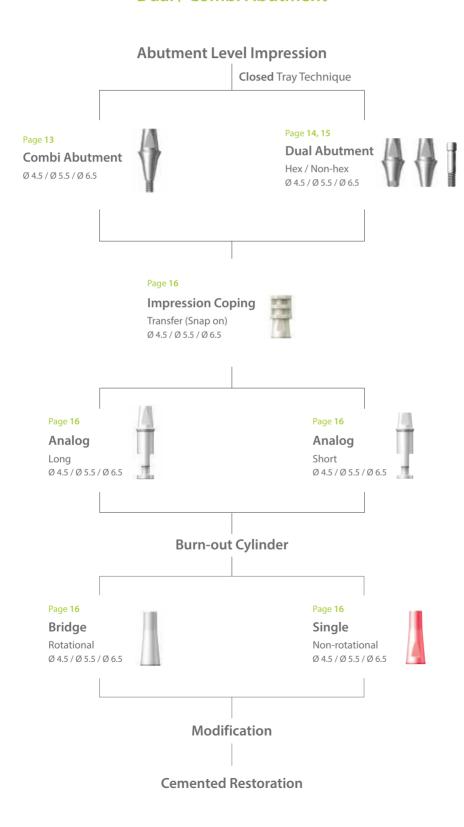




Prosthetic Procedure 1

Impression Technique and Restoration Selection

Dual / Combi Abutment



Combi Abutment

Unit: mm, Scale 1:1



Diameter	G/H	Type	Art. No.	Type	Art. No.	IDT IDT
	1.0		CAB 45 10 SE		CAB 45 10 E	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	1.5		CAB 45 15 SE		CAB 45 15 E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
a	2.5	61 .	CAB 45 25 SE		CAB 45 25 E	
Ø 4.5	3.5	Short	CAB 45 35 SE	Long	CAB 45 35 E	T T T T T T T T T T
	4.5		CAB 45 45 SE		CAB 45 45 E	5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5
	5.5		CAB 45 55 SE		CAB 45 55 E	A A A A A A
			1			
						$T_{4.0}$ $T_{4.0}$ $T_{4.0}$ $T_{4.0}$
	1.5		CAB 55 15 SE		CAB 55 15 E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	2.5		CAB 55 25 SE		CAB 55 25 E	4 4 4 4 4
Ø 5.5	3.5	Short	CAB 55 35 SE	Long	CAB 55 35 E	IAT IAT IAT 55
	4.5		CAB 55 45 SE		CAB 55 45 E	5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5
	5.5		CAB 55 55 SE		CAB 55 55 E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
						* * * * *
						$T_{4.0}$ $T_{4.0}$ $T_{4.0}$ $T_{4.0}$
	1.5		CAB 65 15 SE		CAB 65 15 E	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	2.5		CAB 65 25 SE		CAB 65 25 E	A A A A A
Ø 6.5	3.5	Short	CAB 65 35 SE	Long	CAB 65 35 E	5.5 AT 5.5
	4.5		CAB 65 45 SE		CAB 65 45 E	5.5

CAB 65 55 E

5.5

CAB 65 55 SE

Dual Abutment_Hex

Unit: mm, Scale 1.5:1

· Abutment screw is included



Diameter	G/H	Art. No.
	1.0	DAB 45 10 HE
	1.5	DAB 45 15 HE
Ø 4.5	2.5	DAB 45 25 HE
W 4.5	3.5	DAB 45 35 HE
	4.5	DAB 45 45 HE
	5.5	DAB 45 55 HE
	1.5	DAB 55 15 HF
	2.5	DAB 55 15 HE
Ø 5.5	3.5	DAB 55 35 HE
2 3.3	4.5	DAB 55 45 HE
	5.5	DAB 55 55 HE
	1.5	DAB 65 15 HE
	2.5	DAB 65 25 HE
Ø 6.5	3.5	DAB 65 35 HE
	4.5	DAB 65 45 HE
	5.5	DAB 65 55 HE





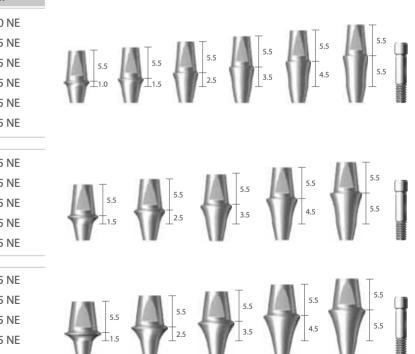


Dual Abutment_Non-hex

Unit: mm, Scale 1.5:1 · Abutment screw is included



Diameter	G/H	Art. No.	
	1.0	DAB 45 10 NE	
	1.5	DAB 45 15 NE	
Ø 4.5	2.5	DAB 45 25 NE	
W 4.5	3.5	DAB 45 35 NE	- {
	4.5	DAB 45 45 NE	
	5.5	DAB 45 55 NE	
	1.5	DAB 55 15 NE	
	2.5	DAB 55 25 NE	
Ø 5.5	3.5	DAB 55 35 NE	
	4.5	DAB 55 45 NE	•
	5.5	DAB 55 55 NE	
	1.5	DAB 65 15 NE	
	2.5	DAB 65 25 NE	
Ø 6.5	3.5	DAB 65 35 NE	
	4.5	DAB 65 45 NE	4
	5.5	DAB 65 55 NE	



Abutment Level Impression Components

Unit: mm, Scale 1:1

Comfort Cap | Snap on

Туре	Diameter	Art. No.
	Ø 4.5	CCC 45 CS
Short	Ø 5.5	CCC 55 CS
	Ø 6.5	CCC 65 CS
	Ø 4.5	CCC 45 C
Long	Ø 5.5	CCC 55 C
	Ø 6.5	CCC 65 C















Impression Coping

Diameter	Art. No.
Ø 4.5	CIC 45 L
Ø 5.5	CIC 55 L
Ø 6.5	CIC 65 L







Lab Analog

Туре	Diameter	Art. No.
	Ø 4.5	CAN 45 SL
Short	Ø 5.5	CAN 55 SL
	Ø 6.5	CAN 65 SL
	Ø 4.5	CAN 45 LL
Long	Ø 5.5	CAN 55 LL
	Ø 6.5	CAN 65 LL













Burn-out Cylinder

Туре	Diameter	Art. No.
	Ø 4.5	CBC 45 SL
Single	Ø 5.5	CBC 55 SL
	Ø 6.5	CBC 65 SL
	Ø 4.5	CBC 45 BL
Bridge	Ø 5.5	CBC 55 BL
	Ø 6.5	CBC 65 BL













Restorative Kit



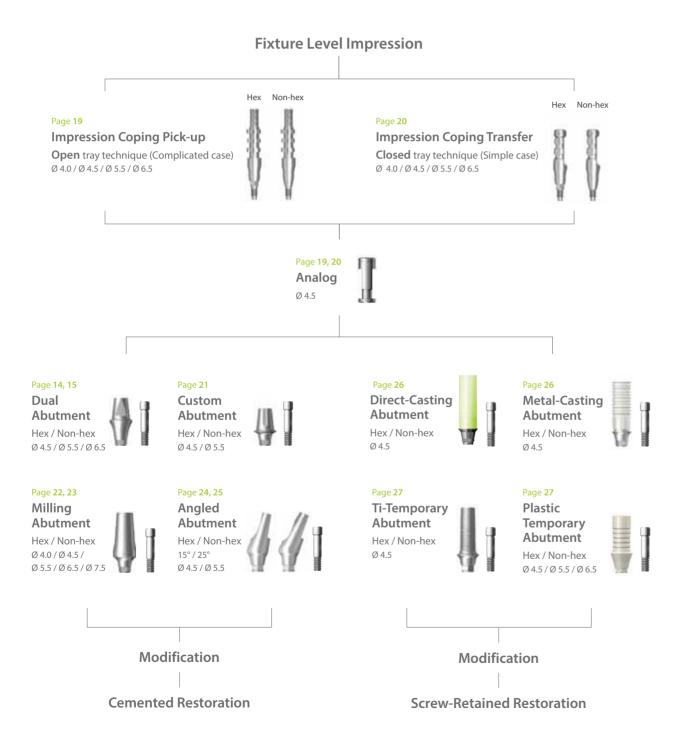
Combi & Dual Abutment

Aut No	Lab. Components				
Art. No	Comfort Cap	Impression Coping	Analog	Burn-out	Cylinder
XSDAB 45 S XSDAB 45	CCC 45 CS CCC 45 C	CIC 45 L	CAN 45 SL CAN 45 LL	CBC 45 SL	CBC 45 BL
XSDAB 55 S XSDAB 55	CCC 55 CS CCC 55 C	CIC 55 L	CAN 55 SL CAN 55 LL	CBC 55 SL	CBC 55 BL
XSDAB 65 S XSDAB 65	CCC 65 CS CCC 65 C	CIC 65 L	CAN 65 SL CAN 65 LL	CBC 65 SL	CBC 65 BL

Prosthetic Procedure 2

Impression Technique and Restoration Selection

Dual / Custom / Milling / Angled / Direct-Casting / Metal-Casting / Ti-Temporary / Plastic Temporary Abutment



Fixture Level Impression Components

Unit: mm, Scale 1:1

Impression Coping Pick-up

Diameter	Size	Туре	Art. No.
	Short	Hex	DPU 40 11 HE
Ø 4 0	Short	Non-hex	DPU 40 11 NE
Ø 4.0	Long	Hex	DPU 40 15 HE
	Long	Non-hex	DPU 40 15 NE

Ø 4.5	Short	Hex	DPU 45 11 HE
	Short	Non-hex	DPU 45 11 NE
	Long	Hex	DPU 45 15 HE
	Long	Non-hex	DPU 45 15 NE

Ø 5.5	Short	Hex	DPU 55 11 HE
	Short	Non-hex	DPU 55 11 NE
	Long	Hex	DPU 55 15 HE
	Long	Non-hex	DPU 55 15 NE

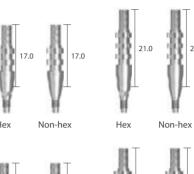
Short	Hex	DPU 65 11 HE
Short	Non-hex	DPU 65 11 NE
Long	Hex	DPU 65 15 HE
Long	Non-hex	DPU 65 15 NE
	Short Long	Short Non-hex Long Hex

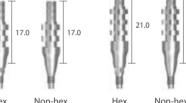
Impression Coping Transfer Screw

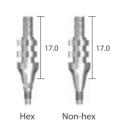
Size	L	Art. No.
Short	23.0	DPS 11 E
Long	27.0	DPS 15 E

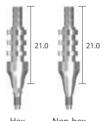
Analog

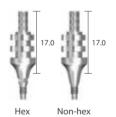
Diameter	L	Art. No.
Ø 4.5	12.0	DANSE

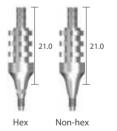


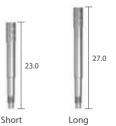














 $[\]cdot$ Impression coping screw is included with Impression coping.

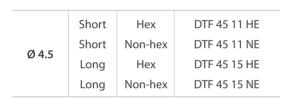
Fixture Level Impression Components

Unit: mm, Scale 1:1

· Impression coping screw is included with Impression coping.

Impression Coping Transfer

Diameter	Size	Туре	Art. No.
	Short	Hex	DTF 40 11 HE
Ø 4.0	Short	Non-hex	DTF 40 11 NE
Ø 4.0	Long	Hex	DTF 40 15 HE
	Long	Non-hex	DTF 40 15 NE



	Short	Hex	DTF 55 11 HE
Ø F F	Short	Non-hex	DTF 55 11 NE
Ø 5.5	Long	Hex	DTF 55 15 HE
	Long	Non-hex	DTF 55 15 NE

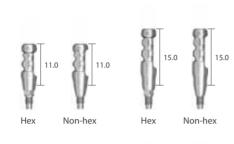
	Short	Hex	DTF 65 11 HE
Ø 6 E	Short	Non-hex	DTF 65 11 NE
Ø 6.5	Long	Hex	DTF 65 15 HE
	Long	Non-hex	DTF 65 15 NE

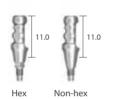
Impression Coping Transfer Screw

Size	L	Art. No.
Short	17.0	DTS 11 E
Long	21.0	DTS 15 E

Analog

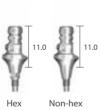
Diameter	L	Art. No.
Ø 4.5	12.0	DANSE

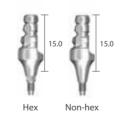


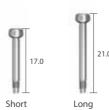














Custom Abutment

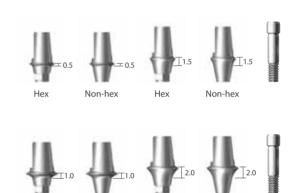
Unit: mm, Scale 1.5 : 1

· Abutment screw is included.



FX4510SW

Diameter	G/H	Туре	Art. No.
	0.5	Hex	CDAB 45 05 HE
0.45	0.5	Non-hex	CDAB 45 05 NE
Ø 4.5	1.5	Hex	CDAB 45 15 HE
	1.5	Non-hex	CDAB 45 15 NE
	1.0	Hex	CDAB 55 10 HE
Ø 5.5	1.0	Non-hex	CDAB 55 10 NE
	2.0	Hex	CDAB 55 20 HE
	2.0	Non-hex	CDAB 55 20 NE



Unit: mm, Scale 1.5:1

Milling Abutment

Unit: mm, Scale 1.5:1

· Abutment screw is included.



Diameter	G/H	Type	Art. No.
Ø 4.0	1.0	Hex	MAB 40 105 HE
	1.0	Non-hex	MAB 40 105 NE

Diameter	G/H	Туре	Art. No.
Ø 4.5	1.5	Hex	MAB 45 156 HE
	1.5	Non-hex	MAB 45 156 NE

Diameter	G/H	Type	Art. No.
Ø 5.5	1.5	Hex	MAB 55 157 HE
	1.5	Non-hex	MAB 55 157 NE
	2.5	Hex	MAB 55 257 HE
	2.5	Non-hex	MAB 55 257 NE



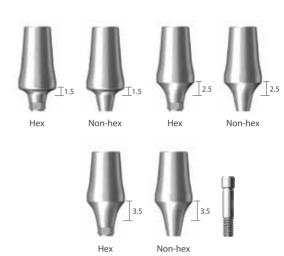




Milling Abutment

· Abutment screw is included.

Diameter	G/H	Type	Art. No.
	1.5	Hex	MAB 65 158 HE
	1.5	Non-hex	MAB 65 158 NE
0.65	2.5	Hex	MAB 65 258 HE
Ø 6.5	2.5	Non-hex	MAB 65 258 NE
	3.5	Hex	MAB 65 358 HE
	3.5	Non-hex	MAB 65 358 NE



Diameter	G/H	Туре	Art. No.
Ø 7.5	2.5	Hex	MAB 75 259 HE
	2.5	Non-hex	MAB 75 259 NE
	3.5	Hex	MAB 75 359 HE
	3.5	Non-hex	MAB 75 359 NE

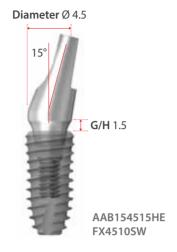


Unit: mm, Scale 1.5:1

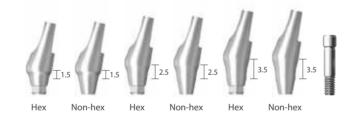
Angled Abutment_15°

Unit: mm, Scale 1.5:1

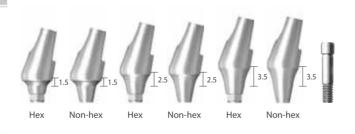
· Abutment screw is included.



Diameter	G/H	Type	Art. No.
	1.5	Hex	AAB 15 45 15 HE
	1.5	Non-hex	AAB 15 45 15 NE
Ø 4.5	2.5	Hex	AAB 15 45 25 HE
W 4.5	2.5	Non-hex	AAB 15 45 25 NE
	3.5	Hex	AAB 15 45 35 HE
	3.5	Non-hex	AAB 15 45 35 NE

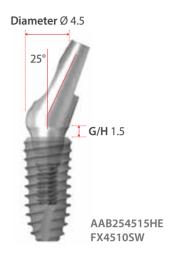


	Diameter	G/H	Type	Art. No.
		1.5	Hex	AAB 15 55 15 HE
		1.5	Non-hex	AAB 15 55 15 NE
	Ø 5.5	2.5	Hex	AAB 15 55 25 HE
	כ.כ ש	2.5	Non-hex	AAB 15 55 25 NE
		3.5	Hex	AAB 15 55 35 HE
		3.5	Non-hex	AAB 15 55 35 NE

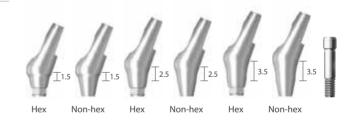


Angled Abutment_25°

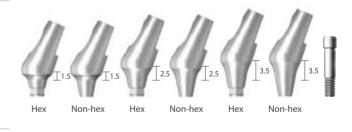
· Abutment screw is included.



Diameter	G/H	Type	Art. No.
	1.5	Hex	AAB 25 45 15 HE
	1.5	Non-hex	AAB 25 45 15 NE
Ø 4.5	2.5	Hex	AAB 25 45 25 HE
W 4.5	2.5	Non-hex	AAB 25 45 25 NE
	3.5	Hex	AAB 25 45 35 HE
	3.5	Non-hex	AAB 25 45 35 NE



Diameter	G/H	Type	Art. No.
	1.5	Hex	AAB 25 55 15 HE
	1.5	Non-hex	AAB 25 55 15 NE
Ø 5.5	2.5	Hex	AAB 25 55 25 HE
Ø 5.5	2.5	Non-hex	AAB 25 55 25 NE
	3.5	Hex	AAB 25 55 35 HE
	3.5	Non-hex	AAB 25 55 35 NE



Direct-Casting Abutment

Unit: mm, Scale 1.5:1

• Abutment screw is included.



Gold			
Diameter	G/H	Type	Art. No.
Ø 4.5	1.0	Hex Non-hex	RAB 45 GH RAB 45 GN
			n
,	T	1.0	1 1.0
	Hex	Non	-hex

Metal-Casting Abutment

Unit: mm, Scale 1.5:1

• Abutment screw is included.



Co-Cr			
Diameter	G/H	Type	Art. No.
Ø 4.5	1.0	Hex Non-hex	RAB 45 CLH RAB 45 CLN
	W [±]	1.0	T1.0
	Hex	Non	-hex

Ti-Temporary Abutment

Abutment screw is included.



Ø 4.5 1.0 Hex TAB 45 HG Non-hex TAB 45 NG	Diameter	G/H	Туре	Art. No.
	Ø 4.5	1.0		
		£ 10		

Non-hex

Plastic Temporary Abutment

Unit: mm, Scale 1.5:1

Unit: mm, Scale 1.5:1

· Abutment screw is included.



Diameter	G/H	Type	Art. No.
Ø 4.5	2.0	Hex Non-hex	RAB 45 20 PHL RAB 45 20 PNL
Ø 5.5	2.0	Hex Non-hex	RAB 55 20 PHL RAB 55 20 PNL
Ø 6.5	2.0	Hex Non-hex	RAB 65 20 PHL RAB 65 20 PNL





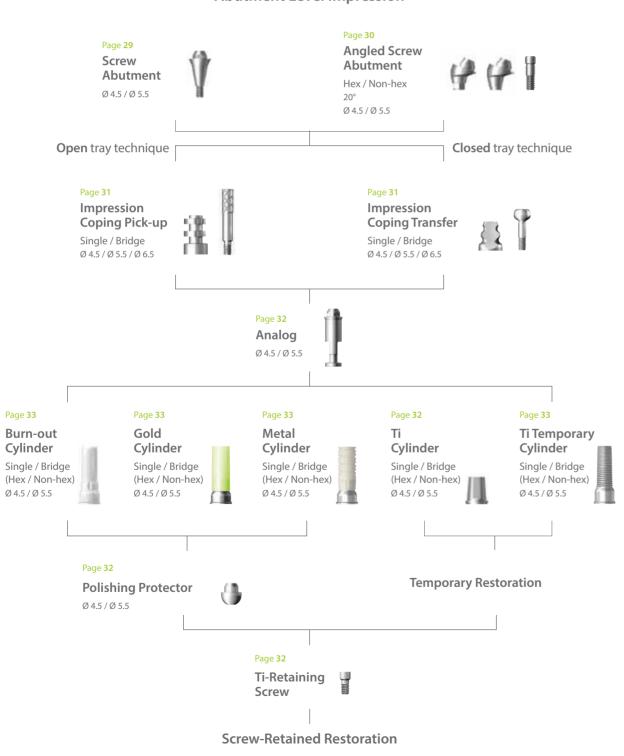
Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the temporary abutment with fixture.

Prosthetic Procedure 3

Impression Technique and Restoration Selection

Screw Abutment

Abutment Level Impression



Screw Abutment

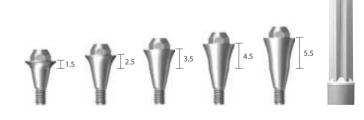
Unit: mm, Scale 1.5:1



Diameter	G/H	Art. No.
	1.0	SAB 45 10 E
	1.5	SAB 45 15 E
Ø 4 F	2.5	SAB 45 25 E
Ø 4.5	3.5	SAB 45 35 E
	4.5	SAB 45 45 E
	5.5	SAB 45 55 E



Diameter	G/H	Art. No.
Ø 5.5	1.5	SAB 55 15 E
	2.5	SAB 55 25 E
	3.5	SAB 55 35 E
	4.5	SAB 55 45 E
	5.5	SAB 55 55 E
		1.5 2.5 Ø 5.5 3.5 4.5



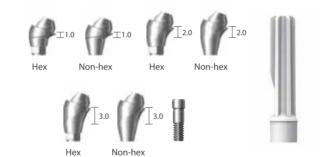
Angled Screw Abutment

Unit: mm, Scale 1.5:1

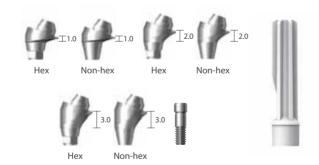
· Abutment screw is included.



Diameter	G/H	Type	Art. No.
	1.0	Hex	ASA 45 10 HE
	1.0	Non-hex	ASA 45 10 NE
Ø 4.5	2.0	Hex	ASA 45 20 HE
	2.0	Non-hex	ASA 45 20 NE
	3.0	Hex	ASA 45 30 HE
	3.0	Non-hex	ASA 45 30 NE



	Diameter	G/H	Type	Art. No.
		1.0	Hex	ASA 55 10 HE
		1.0	Non-hex	ASA 55 10 NE
	Ø F F	2.0	Hex	ASA 55 20 HE
	Ø 5.5	2.0	Non-hex	ASA 55 20 NE
		3.0	Hex	ASA 55 30 HE
		3.0	Non-hex	ASA 55 30 NE



Angled Screw Abutment Screw

Diameter	L	Art. No.
Ø 2.3	7.3	ASASC 20 23

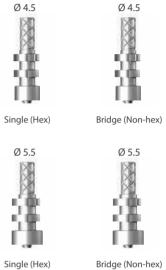


Screw Abutment Impression Components

Unit: mm, Scale 1.5:1

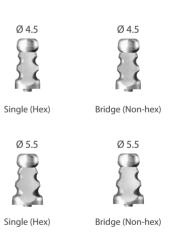
Impression Coping Pick-up

Diameter	Туре		Art. No.
Ø 4.5	Single Bridge	Hex Non-hex	SPU 45 SL SPU 45 BL
	bridge	NOII-HEX	3FU 43 BL
Ø 5.5	Single	Hex	SPU 55 SL
9 3.3	Bridge	Non-hex	SPU 55 BL



Impression Coping Transfer

Diameter	Type		Art. No.
0.45	Single	Hex	STF 45 SL
Ø 4.5	Bridge	Non-hex	STF 45 BL
0.5.5	Single	Hex	STF 55 SL
Ø 5.5	Bridge	Non-hex	STF 55 BL



Impression Coping Screw

Туре	L	Art. No.
Pick-up	15.0	SPS 09
Transfer	9.0	STS 09





Screw Abutment Impression Components

Unit: mm, Scale 1.5:1

Screw Abutment Impression Components

Unit: mm, Scale 1.5:1

Comfort Cap

Diameter	L	Art. No.
Ø 4.5	5.0	SCC 45 L
Ø 5.5		SCC 55 L



Analog

Diameter	L	Art. No.
Ø 4.5	12.0	SAN 45 L
Ø 5.5		SAN 55 L



Polishing Protector

Diameter	L	Art. No.
Ø 4.5	4.71	SPP 45 L
Ø 5.5	4.71	SPP 55 L





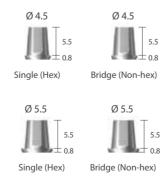
Ti-Retaining Screw

Diameter	L	Art. No.
Ø 2.3	5.0	SRT 18 T



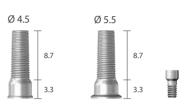
Ti-Cylinder

Diameter	Туре		Art. No.
Ø 4.5	Single	Hex Non-box	STA 45 S STA 45 B
	Bridge	Non-hex	
Ø 5.5	Single	Hex	STA 55 S
	Bridge	Non-hex	STA 55 B



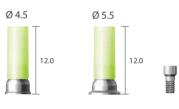
Ti-Temporary Cylinder

Diameter	Туре		Art. No.
Ø 4.5	Single	Hex	STC 45 SG
Ø 4.5	Bridge	Non-hex	STC 45 BG
Ø F F	Single	Hex	STC 55 SG
Ø 5.5	Bridge	Non-hex	STC 55 BG



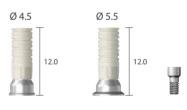
Gold Cylinder

Diameter	Туре		Art. No.
Ø 4.5	Single	Hex	SGC 45 SL
9 4.3	Bridge	Non-hex	SGC 45 BL
Ø F F	Single	Hex	SGC 55 SL
Ø 5.5	Bridge	Non-hex	SGC 55 BL



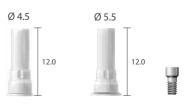
Metal Cylinder | Co-Cr

Diameter	Туре		Art. No.
Ø 4.5	Single	Hex	SGC 45 CSL
7.J	Bridge	Non-hex	SGC 45 CBL
Ø 5.5	Single	Hex	SGC 55 CSL
W 3.3	Bridge	Non-hex	SGC 55 CBL



Burn-out Cylinder

Diameter	Туре		Art. No.
Ø 4.5	Single	Hex	SBC 45 SL
	Bridge	Non-hex	SBC 45 BL
Ø 5.5	Single	Hex	SBC 55 SL
9 3.3	Bridge	Non-hex	SBC 55 BL



Prosthetic Procedure 4

Impression Technique and Restoration Type

Overdenture Procedure

Positioner / Mini Ball / Magnetic Attachment



Positioner

Unit: mm, Scale 1.5:1



Positioner Abutment

Diameter	G/H	Art. No.
	1.0	PAB 35 10
	2.0	PAB 35 20
	3.0	PAB 35 30
Ø 3.5	4.0	PAB 35 40
	5.0	PAB 35 50
	6.0	PAB 35 60
	7.0	PAB 35 70



Positioner Impression Coping

Diameter	L	Art. No.
Ø 4.5	4.5	PIC



Positioner Analog

Diameter	L	Art. No.
Ø 3.5	12.4	PAN



Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the positioner abutment with fixture.

Positioner

Unit: mm, Scale 1.5:1

Positioner Socket Set

Туре	Art. No.
Tilting type ±10°	FSMHS
Non Tilting type ±5°	FSMHSN



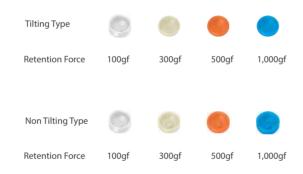
Positioner Metal Socket

Diameter	Н	Art. No.
Ø 5.2	2.3	FSMH



Positioner Abutment

Application		Art. No.	
Blue	1,000gf	MSHP	
Orange	500gf	MSMP	
Ivory	300gf	MSLP	
White	100gf	MSOP	
Blue	1,000gf	MSHPN	
Orange	500gf	MSMPN	
Ivory	300gf	MSLPN	
White	100gf	MSOPN	
	Blue Orange Ivory White Blue Orange Ivory	Blue 1,000gf Orange 500gf Ivory 300gf White 100gf Blue 1,000gf Orange 500gf Ivory 300gf	



Positioner Block Out Spacer

Diameter	Н	Art. No.
Ø 6.5	0.5	FSMH



Positioner Core Tool

XPCT



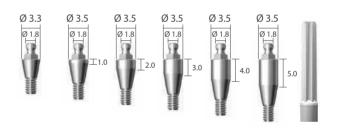
Mini Ball Attachment

Unit: mm, Scale 1.5:1



Mini Ball Abutment

Diameter	G/H	Art. No.
Ø 3.3	0	BAB 35 00 18
Ø 3.5	1.0	BAB 35 10 18
Ø 3.5	2.0	BAB 35 20 18
Ø 3.5	3.0	BAB 35 30 18
Ø 3.5	4.0	BAB 35 40 18
Ø 3.5	5.0	BAB 35 50 18



Mini Ball Impression Coping

Diameter	L	Art. No.	
Ø 4.0	5.0	GICA	



Mini Ball Analog

Diameter	Art. No.
Ø 3.5	BANL



Socket Spacer

Diameter	Art. No.
Ø 4.05	GBIC 3 L
Ø 4.85	GBIC 2 L



Female Socket

Diameter	Retention Force	Art. No.
Ø 4.05	300~500gf	BPF 3
Ø 4.85	500~700gf	BPF 2







Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the mini ball abutment with fixture.

Magnetic Attachment_Dome Type

Unit: mm, Scale 1.5:1



Magnetic Assay

Application	Diameter	Н	Art. No.
MKP45D	Ø 4.5	2.0	MGT 45 20 D
MKP55D	Ø 5.5	2.0	MGT 55 20 D





Implant Keeper Diameter

Diameter	G/H	Art. No.
	1.0	MKP 45 10 D
	2.0	MKP 45 20 D
Ø 4 F	3.0	MKP 45 30 D
Ø 4.5	4.0	MKP 45 40 D
	5.0	MKP 45 50 D
	6.0	MKP 45 60 D
	1.0	MKP 55 10 D
	2.0	MKP 55 20 D
Ø 5.5	3.0	MKP 55 30 D
Ø 5.5	4.0	MKP 55 40 D
	5.0	MKP 55 50 D
	6.0	MKP 55 60 D





Magnetic Attachment_Flat Type

Unit: mm, Scale 1.5:1



Magnetic Assay

Application	Diameter	Н	Art. No.
MKP 45	Ø 4.5	1.5	MGT 45 15
MINI 43	Ø 4.5	2.0	MGT 45 20
MKP 55	Ø 5.5	1.5	MGT 55 15
IVINP 33	Ø 5.5	2.0	MGT 55 20

	Ø 4.5	Ø 4.5	Ø 5.5	Ø 5.5
	1.5	2.0	1.5	2.0
Retention Force	400gf	450gf	700gf	750gf

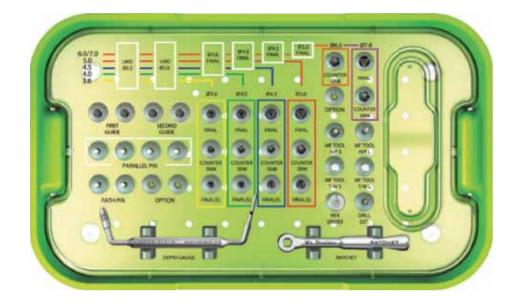
Implant Keeper Diameter

Diameter	G/H	Art. No.
	1.0	MKP 45 10
	2.0	MKP 45 20
0.45	3.0	MKP 45 30
Ø 4.5	4.0	MKP 45 40
	5.0	MKP 45 50
	6.0	MKP 45 60
	1.0	MKP 55 10
	2.0	MKP 55 20
Ø 5.5	3.0	MKP 55 30
Ø 5.5	4.0	MKP 55 40
	5.0	MKP 55 50
	6.0	MKP 55 60



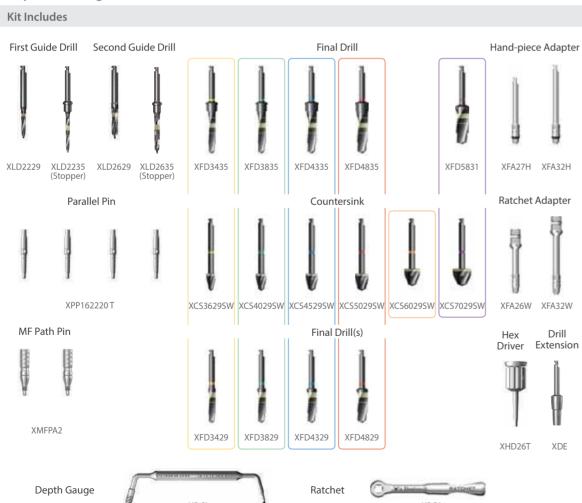


Surgical Kit_Full

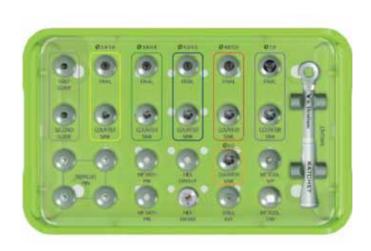


SuperLine Surgical Full Kit

UXNF



Surgical Kit_Standard



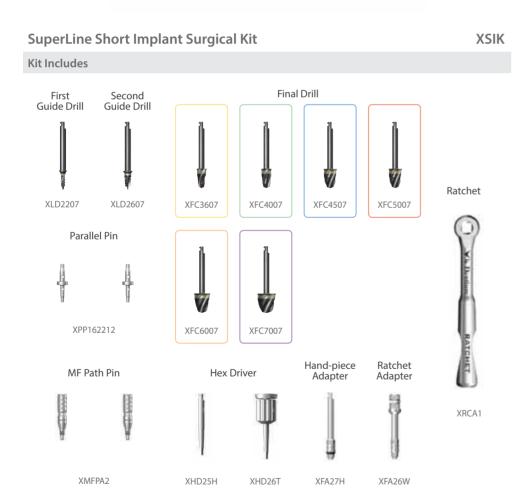
SuperLine Surgical Standard Kit

UXNS



Surgical Kit_Short Implant





Drill Stopper Kit

XFD4335

XFD4835

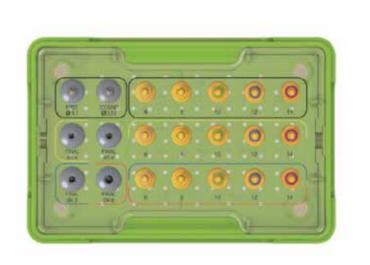
XFDST06L

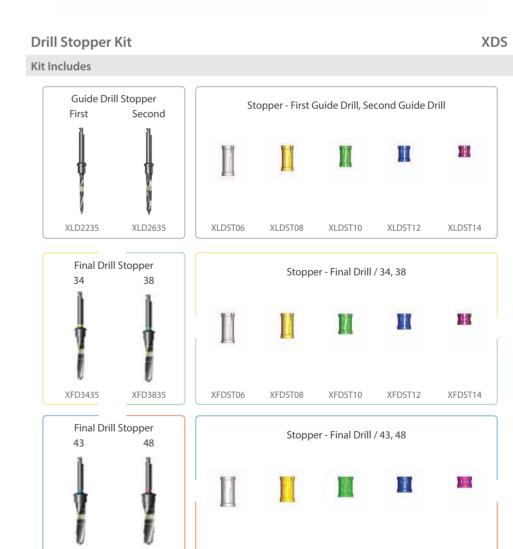
XFDST08L

XFDST10L

XFDST12L

XFDST14L

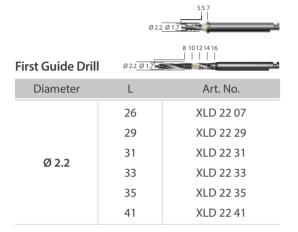




Surgical Instruments

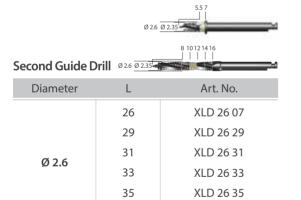
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Surgical Instruments





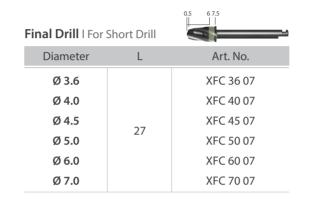




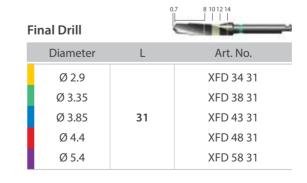
XLD 26 41

41

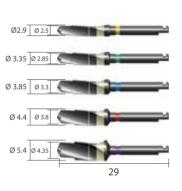










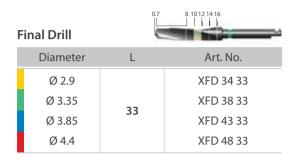




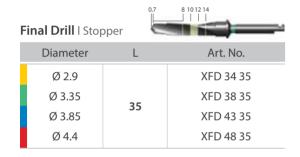
Surgical Instruments

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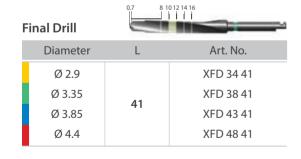
Surgical Instruments

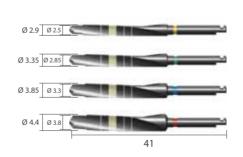


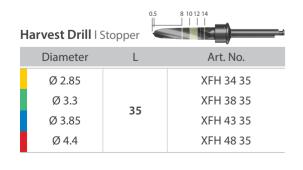




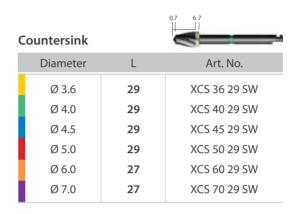


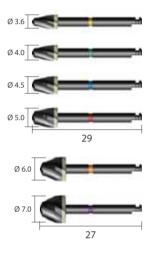


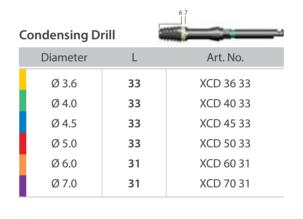


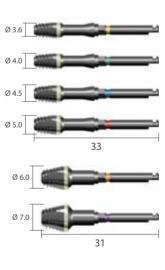












Round Bur

Diameter	L	Art. No.
Ø 2.0	22	XRB 20 33
Ø 3.0	33	XRB 30 33



Note: 1. Countersink Drill & Round Bur speed 1,000rpm, 30~45 N·cm with irrigation 2. Condensing Drill speed 20~60rpm, 30~45 N·cm with irrigation

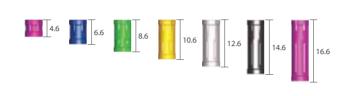
Surgical Instruments

Unit: mm, Scale 1:1

Surgical Instruments

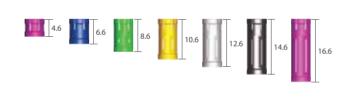
Stopper I For first guide drill, second guide drill

Diameter Drilling Depth		L	Art. No.
	14	4.6	XLDST 14
	12	6.6	XLDST 12
	10	8.6	XLDST 10
Ø 4.45	08	10.6	XLDST 08
	06	12.6	XLDST 06
	04	14.6	XLDST 04
	02	16.6	XLDST 02



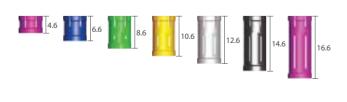
Stopper | For final drill 3435, 3835

Diameter	Drilling Depth	L	Art. No.
	14	4.6	XFDST 14
	12	6.6	XFDST 12
	10	8.6	XFDST 10
Ø 5.14	08	10.6	XFDST 08
	06	12.6	XFDST 06
	04	14.6	XFDST 04
	02	16.6	XFDST 02



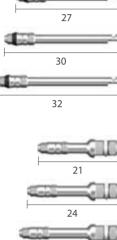
Stopper I For final drill 4335, 4835

Diameter Drilling Depth		L	Art. No.
	14	4.6	XFDST 14 L
	12	6.6	XFDST 12 L
	10	8.6	XFDST 10 L
Ø 5.14	08	10.6	XFDST 08 L
	06	12.6	XFDST 06 L
	04	14.6	XFDST 04 L
	02	16.6	XFDST 02 L



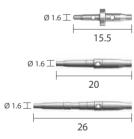
Adapter I Hex 2.5mm

Diameter	L	Art. No.
	27	XFA 27 H
Hand-piece	30	XFA 30 H
	32	XFA 32 H
	21	XFA 21 W
	24	XFA 24 W
Ratchet	26	XFA 26 W
	29	XFA 29 W
	32	XFA 32 W



Parallel Pin I For first guide drill, second guide drill

Diameter	L	Art. No.
	15.5	XPP 162212
Ø 1.6	20	XPP 162220 T
	26	XPP 162226 T



Path Pin

Diameter	L	Art. No.
Ø 1.6	18.6	XMFPA 2



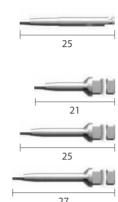
Surgical Instruments

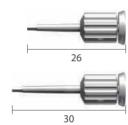
Unit: mm, Scale 1:1

Surgical Instruments

Hex Driver | Hex 1.28mm

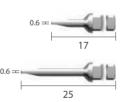
Туре	L	Art. No.
Hand-piece	25	XHD 25 H
	21	XHD 21 W
Ratchet	25	XHD 25 W
	27	XHD 27 W
MI	26	XHD 26 T
Manual	30	XHD 30 T





Slot Driver

Type	L	Art. No.
Ratchet	17	SDA 17 R
Raichei	25	SDA 25 R



Drill Extension

Diameter	L	Art. No.
Ø 3.0	26	XDE



Driver

Туре	Diameter	Art. No.	
Manual	Ø 12.0	XHDHT	



Screw & Ball Abutment Adapter

Type	L	Art. No.
Hand-piece	20	XMAA 1
Ratchet	21	XMA 21 W
Ratchet	21	XMA 21 W



Mini Ball Abutment Adapter

Туре	L	Art. No.
Ratchet	21	IPST 21 W



latchet		Scale 0.7 : 1
	XRCA 1	



Torque Wrench	Scale 0.7 : 1
XNTV	V



Depth Gauge Scale 0.7:1 XDGL





Tissue Punch

Diameter	L	Art. No.
Ø 4.0	27	XTS 40



DASK



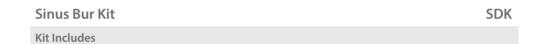
Dentium Advanced Sinus Kit Kit Includes DASK





Sinus Bur Kit

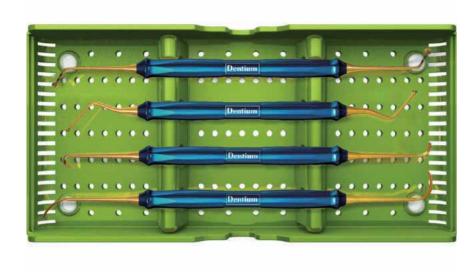








Sinus Kit



Sinus Bur Kit XSKL
Kit Includes



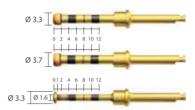
DASK / Sinus Bur Kit

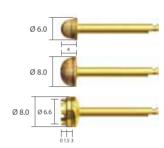
Unit: mm, Scale 1:1

DASK Drill

Type DASK Drill		# Art. No.	
6	DASK Drill #1	XRT 33 20 35	
Crestal Approach	DASK Drill #2	XRT 37 20 35	
Арргоасп	DASK Drill #3	XED 33 10 35 D	
	DASK Drill #4	XRT 06 40 25	
Lateral Approach	DASK Drill #5	XRT 08 40 25	
лрргоасп	DASK Drill #6	XST 08 30 25	

Note: Drill speed 800 to 1,200rpm, 30~45N·cm with irrigation





Stopper | For XRT332035, XRT372035, XED331035D

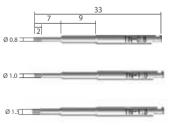
Diameter	Diameter Drilling Depth		Art. No.
Ø 5.14	08	10.6	XFDST 08
	06	12.6	XFDST 06
	04	14.6	XFDST 04
	02	16.6	XFDST 02



TN Brush

TN Brush

Diameter	Art. No.
Ø0.8	TN-0.8
Ø1.0	TN-1.0
Ø1.3	TN-1.3



Osteotome Kit

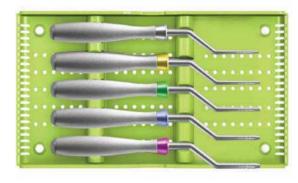
Unit: mm, Scale 1:1

Osteotome

Osteotome compresses the bone laterally, providing denser bony interface rather than removing valuable bone from the surgical site.



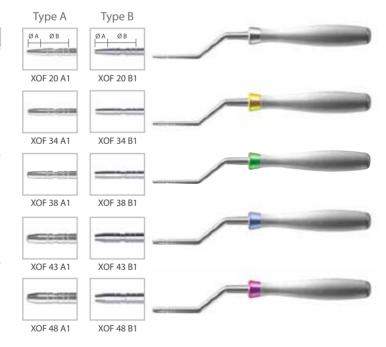
Osteotome Kit



XOFK	XOFBK
Type A (Convex)	Type B (Concave)
XOF 20 A1	XOF 20 B1
XOF 34 A1	XOF 34 B1
XOF 38 A1	XOF 38 B1
XOF 43 A1	XOF 43 B1
XOF 48 A1	XOF 48 B1

Osteotome | Final drill type | Scale 0.4:1

Туре	ØA	ØB	Art. No.
	Ø 1.7	Ø 2.8	XOF 20 A1
1	Ø 2.3	Ø 2.8	XOF 34 A1
T . A	Ø 2.7	Ø 3.2	XOF 38 A1
Type A (Convex)	Ø 2.8	Ø 3.8	XOF 43 A1
(COTIVEX)	Ø 3.0	Ø 4.3	XOF 48 A1
	Ø 1.7	Ø 2.8	XOF 20 B1
	Ø 2.3	Ø 2.8	XOF 34 B1
T D	Ø 2.7	Ø 3.2	XOF 38 B1
Type B (Concave)	Ø 2.8	Ø 3.8	XOF 43 B1
(Coricave)	Ø 3.0	Ø 4.3	XOF 48 B1

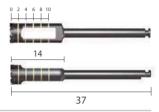


Trephine Kit

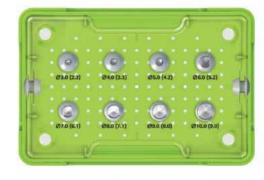
Unit: mm, Scale 1:1

Trephine Bur

- Excellent fine cutting
- Strong engagement when attaching the trephine to cortical bone
- Cut-outs facilitates ease of harvest retrieval
- 5 scale marks on the Trephine drill from 2mm to 10mm
- Easy harvesting



Trephine Kit



	Х	ΊΤ	
	Kit In	cludes	
XTP 24 03	XTP 34 04	XTP 44 05	XTP 54 06
XTP 64 07	XTP 74 08	XTP 84 09	XTP 94 10

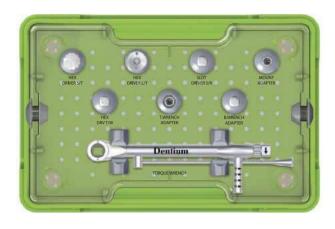
Trephine Bur

Outer Diameter	Inner Diameter	Art. No.
Ø 3.0	Ø 2.3	XTP 24 03
Ø 4.0	Ø 3.3	XTP 34 04
Ø 5.0	Ø 4.2	XTP 44 05
Ø 6.0	Ø 5.2	XTP 54 06
Ø 7.0	Ø 6.1	XTP 64 07
Ø 8.0	Ø 7.1	XTP 74 08
Ø 9.0	Ø 8.0	XTP 84 09
Ø 10.0	Ø 9.0	XTP 94 10



Prosthetic Kit

Unit: mm, Scale 1:1



XIP

Hex Driver

Type	L	Art. No.
S/T	15	XHD 15
L/T	30	XHD 30 T
Torque Wrench	25	XHD 25 W



Adapter

Туре	L	Art. No.
Torque Wrench	21	XMA 21 W
Mini Ball	21	IPST 21 W
Mount	20	XMAA 1



Slot Driver

SDA 25 R



Torque Werench	Scale 0.7 : 1
XNTW	



Planning Kit

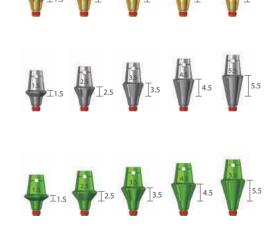
Unit: mm, Scale 1:1



XPK

For Combi & Dual Abutment

Diameter	G/H	Art. No.
	1.5	PDAB 45 15
	2.5	PDAB 45 25
Ø 4.5	3.5	PDAB 45 35
	4.5	PDAB 45 45
	5.5	PDAB 45 55
	1.5	PDAB 55 15
	2.5	PDAB 55 25
Ø 5.5	3.5	PDAB 55 35
	4.5	PDAB 55 45
	5.5	PDAB 55 55
	1.5	PDAB 65 15
	2.5	PDAB 65 25
Ø 6.5	3.5	PDAB 65 35
	4.5	PDAB 65 45
	5.5	PDAB 65 55



For Angled Abutment

Angled	Diameter	G/H	Art. No.
	Ø 4.5	2.0	PAAB 15 45 20
15°	Ø 4.5	4.0	PAAB 15 45 40
13	Ø 5.5	2.0	PAAB 15 55 20
		4.0	PAAB 15 55 40
	G 4.5	2.0	PAAB 25 45 20
Ø 4.5 25° Ø 5.5	Ø 4.5	4.0	PAAB 25 45 40
	0.5.5	2.0	PAAB 25 55 20
	2.5 W	4.0	PAAB25 55 40



Prosthetic and Laboratory Instrument

Unit: mm, Scale 1:1

Hex Driver

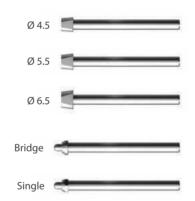
Hex	L	Art. No.
1.28	13	XHD 13
	15	XHD 15
	21	XHD 21
	28	XHD 28

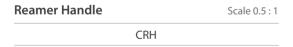


Reamer Guide

Application	Diameter	Art. No.
6 11/6 1	Ø 4.5	CRG 45 L
Combi / Dual Abutment	Ø 5.5	CRG 55 L
	Ø 6.5	CRG 65 L

Application	Туре	Art. No.
Screw	Bridge	SRG BL
Abutment	Single	SRG SL







Hand Wrench XHW



Reamer

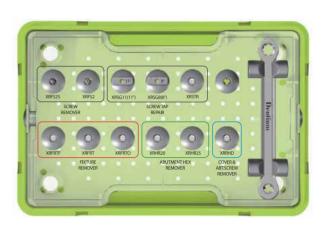
Application	Art. No.
Combi / Dual Abutment	CRM
Screw Abutment	SRM





Help Kit

Unit: mm, Scale 1:1



XIH

Screw Remover

L	Art. No.
25	XRFS 2 S
33	XRFS 2



Art. No.
XRSTR
XRSG 11
XRSG 8



Fixture Remover

Type	Art. No.
-	XRFRT
11°	XRFARTF
8°	XRFRTO



L	Art. No.
20	XRHR 20
25	XRHR 25



L	Art. No.
25	XRRHD

Wrench	Scale 1 : 0.7
WRF	RW





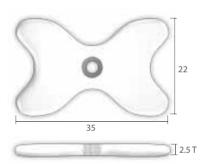


Polymer Guide Kit

Unit: mm, Scale 1:1

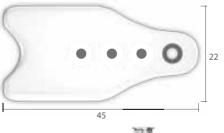






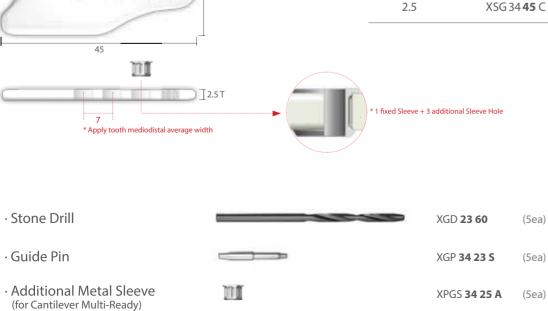


Т	Art. No.
2.5	XSG 34 35 S





Т	Art. No.
2.5	XSG 34 45 C



New Instrument Kit

Sinus Kit

Unit: mm, Scale 1:1



GSEK

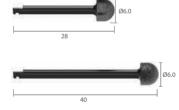
Crestal Drill

Diameter	L	Art No.
Ø3.5	35	GRT 35 35 AS



Lateral Drill

Diameter	L	Art No.
Ø6.0	28	GRT 06 50 28
Ø6.0	40	GRT 06 50 40



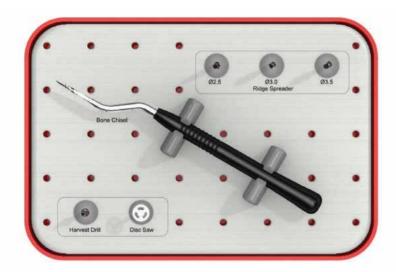
Sinus Curette Scale 1:2/mm



New Instrument Kit

Ridge Expander Kit

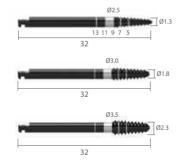
t: mm, Scale 1:1



GREK

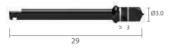
Ridge Spreader

Diameter	L	Art No.
Ø1.3 / Ø2.5	32	GRS 13 25
Ø1.8/Ø3.0	32	GRS 18 30
023/035	32	GRS 23 35



Harvest Drill

Diameter	L	Art No.
Ø3.0	29	GHD 30 29



Disc Saw

Diameter	L	Art No.
Ø8.0	25	GDS 80 25



Bone Chisel

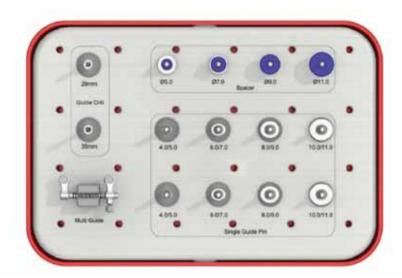
Art No.	GBC 18 45 13



New Instrument Kit

Implant Guide Kit

Unit: mm, Scale 1:1



GIGK

Guide Drill

Diameter	L	Art No.
Ø2.6	29	GGD 26 29
	35	GGD 26 35



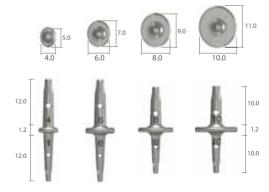
Spacer

Width	Art No.
5.0	GSP 05
7.0	GSP 07
9.0	GSP 09
11.0	GSP 11



Single Guide Pin

Width	Art No.
4.0 / 5.0	GGP 04 05
6.0 / 7.0	GGP 06 07
8.0 / 9.0	GGP 08 09
10.0 / 11.0	GGP 10 11



Multi Guide

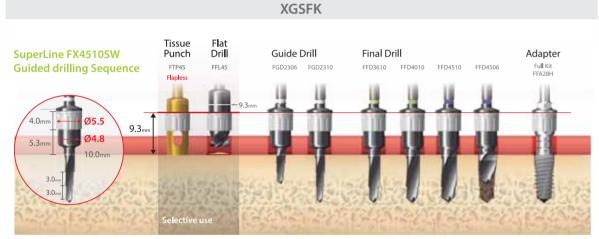
Art No.	GMG2



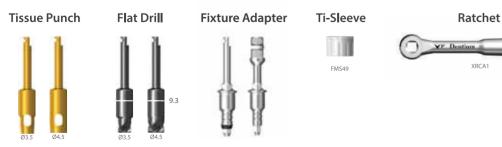
New Instrument Kit

Digital Full Kit







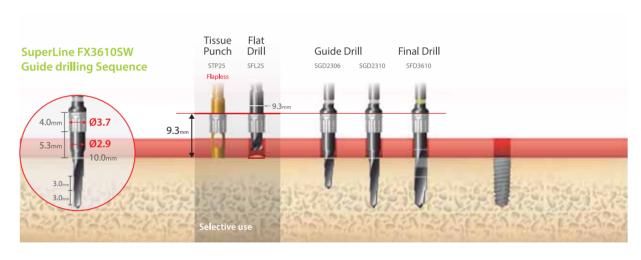




Digital Simple Kit



XGSSK









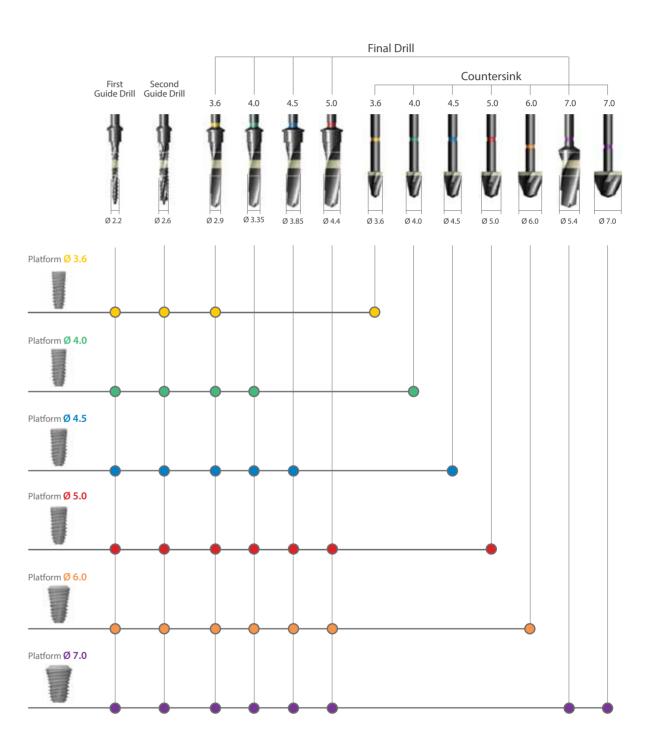


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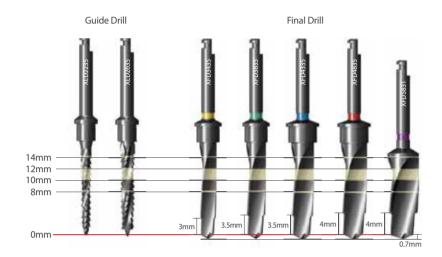
Surgical Drill Sequence I

Drilling Sequence Guide (Final Drill)



During Fixture Insertion, 70N·cm Torque at 50rpm is Recommended

- · Countersink drill is used in cases with dense cortical bone.
- \cdot If the bone density is D1~D2, it is recommended to countersink after final drill.
- ·The actual diameter of the Countersink drill is 0.1mm larger than the fixture platform.





Determination of Fixture Top Level

Top level of fixture needs to be located 0.5mm below the marginal crestal bone level to minimize bone loss after implantation.

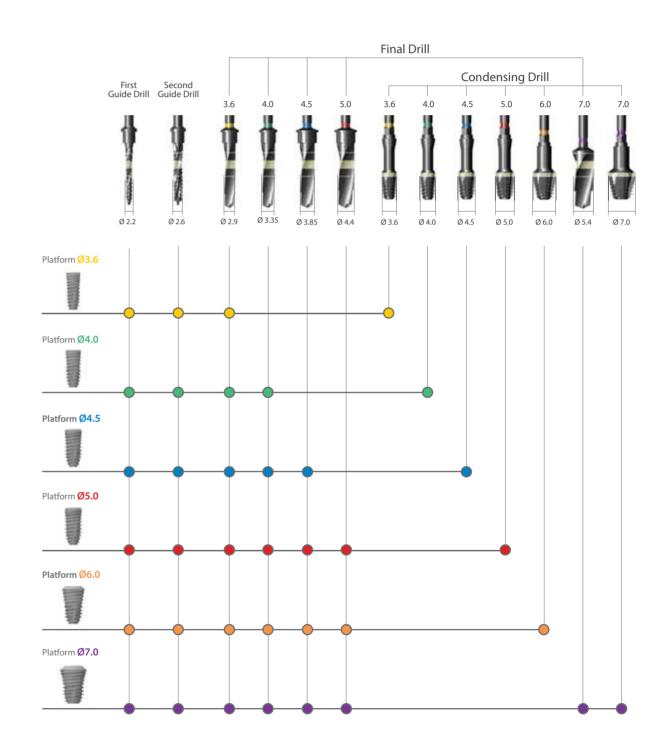


Depth Indication

- \cdot Use the depth gauge after first drill / First guide drill to check depth of drilling.
- · Place the depth gauge against the wall of the osteotomy.

Surgical Drill Sequence II

Drilling Sequence Guide (Condensing Drill)



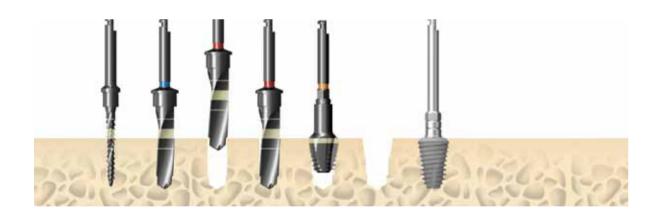
Condensing Drill

- · Condensing Drill speed 20~60rpm, 30~45 N·cm with irrigation
- \cdot If the bone density is D1~D2, it is recommended to Condensing drill after final drill.
- ·The actual diameter of the Condensing drill is 0.1mm larger than the fixture platform.

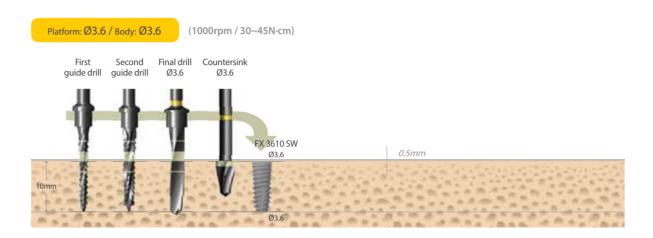


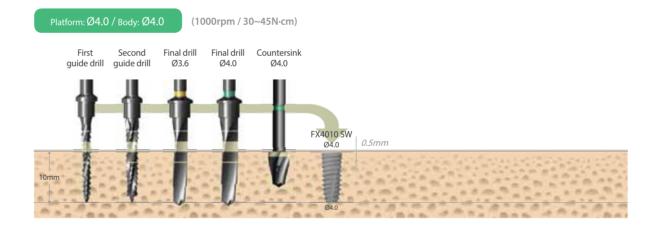
Early loading with precise tap drill

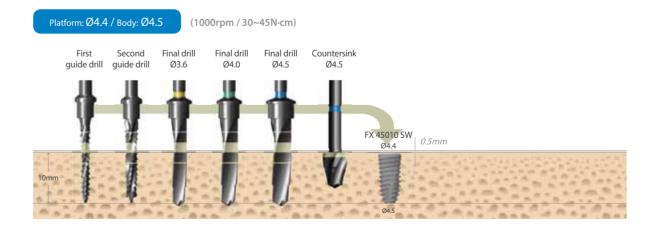
- · Tap drills for exquisite surgery to enable early loading.
- \cdot Smooth and precise surgery with tap drill in type 1~2 bone
- · 4mm of tapping depth for optimum torque control.



Drilling Depth Guide

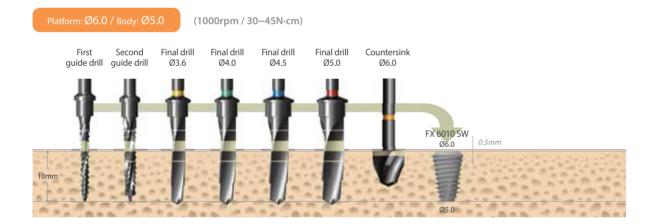


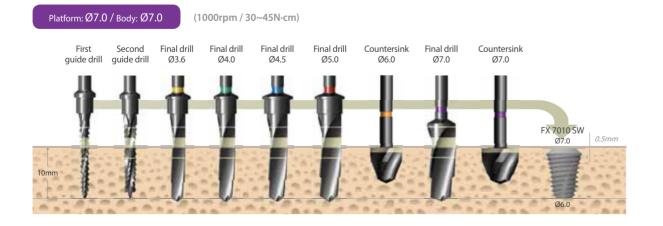




Drilling Depth Guide

Platform: Ø4.9 / Body: Ø5.0 (1000rpm / 30~45N·cm) Final drill Ø4.5 Final drill Ø5.0 First Second guide drill Final drill Ø4.0 Countersink Ø5.0





Fixture Connection











Caution_When opening the fixture pack, hold the fixture container upward and engage the adapter into the

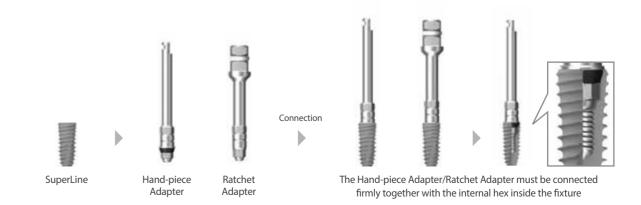








Directions Using the Hand-piece / Ratchet Adapter



Installation Procedure & Warnings

Cover Screw





By Hex Driver

Cover Screw(CS36) connection

Healing Abutment







By Hex Driver Healing Abutment connection

Healing Abutment (HAB402020L) connection in thin gingiva

Warnings

Dental Implant surgery and restoration involve complex dental procedures. Appropriate and adequate training in proper technique is strongly recommended prior to use.

- Improper medical examination and/or treatment plan can result in implant failure and/or loss of supportive bone.
- Improper initial stability and/or excessive occlusal forces during healing period may lead to osseointergration failure.
- Excessive insertion torque may lead to mechanical failure or implant biologic failure due to bone compression and necrosis.
- When forces or loads are greater than its design, implant or abutment fracture could happen. Therefore clinicians should make careful decisions with regards to clinical treatment planning to minimize the risk of fracture. Appropriate implant quantity, occlusal interface and a nightguard are essential. Potential excessive loading conditions may include the following:
- 01 Inadequate number of implants are placed.
- 02 Implant width and/or length are inappropriate for a treatment site.
- 03 Prosthesis which has excessive cantilever length due to inadequate biomechanical design
- 04 Continuous occlusal force are generated by incomplete connection between implant and abutment and/or abutment screw loosening.
- 05 Direct Casting Abutment angles are greater than 30° from the vertical axis of the implant. Direct Abutments are not for angulation.
- 06 Occlusal interferences causing excessive lateral forces
- 07 Patient parafunctions such as bruxism
- 08 Inadequate dental laboratory casting procedures
- 09 Improper prosthesis fit
- 10 Trauma from patient habits or accidents
- 11 Excessive marginal bone loss caused by inadequate bone width and/or advanced periimplantitis

Surgical Kit Maintenance

Manual Cleaning and Sterilization Procedure

It is important to use protective clothing and face shield while cleaning contaminated instruments. Always wear protective glasses, mask, gloves, etc. for your safety.

Cleaning

- 1 Rinse instruments immediately after use under running tap water (<40°C) for a minimum of one (1) minute to remove all debris including extraneous body fluids, bone debris and tissue.
- 2 Soak all instruments immediately after rinsing in an enzymatic cleaning solution* for 10 to 20 minutes (Do not soak overnight).
- * Follow manufacturer's instructions and observe recommended cleaning solution concentrations (enzymatic detergent with a pH level between 7-10 and temperature not to exceed 40°C). Do not use incompatible cleaning solutions to clean instruments.
- 3 For internal irrigation drills, use a 1mL syringe and a 25 gauge needle to clean the drill irrigation hole with a minimum of 0.2 mL of the prepared cleaning solution. Repeat this step two (2) more times for a total of three (3) rinses.
- 4 Scrub with a soft brush for a minimum of 1 (one) minute to remove any debris inside the drill irrigation hole.
- 5 Rinse the instruments under running tap water (<40°C) for a minimum of 1 minute. Use a 1mL syringe and a 25 gauge needle with a minimum of 0.2 mL of tap water to forcefully flush inside the drill irrigation hole. Repeat flushing of drill irrigation hole two (2) more times for a total of three (3) flushings.
- 6 Place instruments into an ultrasonic cleaner with neutral detergent**. Keep instruments inside the ultrasonic bath for 15 minutes using a frequency of 25-50 kHz. Ensure multiple instruments placed within the bath remain separated.
- ** Follow manufacturer's instructions and observe recommended neutral detergent solution concentrations (neutral detergent with a pH level between 7-10 and temperature not to exceed 40°C). Do not use incompatible neutral detergent solutions to clean instruments.
- 7 Rinse instruments thoroughly with running tap water (<40°C) for a minimum of 1 (one) minute until all traces of neutral detergent solution are removed. Rinse inside drill irrigation hole using a 1mL syringe and a 25 gauge needle with a minimum of 0.2 mL of tap water. Repeat rinsing drill irrigation hole two (2) more times for a total of three (3) rinses.
- 8 Gently wipe instruments with a soft lint-free cloth or place the instruments in a drying cabinet (60°C for less than 10 hours) until fully dry. Blow residual water from drill irrigation hole using a 1mL syringe and a 25 gauge needle. Visually inspect instruments in a well-lit area to ensure they are clean, dry and free of residue.
- 9 Clean instrument trays with a germicidal cleaner prior to returning instruments into Kit.
- 10 Always check for damage or corrosion after rinsing and drying.

Sterilization

Dentium recommends either the Pre-vacuum or Gravity autoclave methods for sterilization under the conditions described below. However, autoclave performance can affect the efficacy of this process. Healthcare facilities should validate their sterilization processes employing the actual equipment and operators that routinely sterilize instruments.

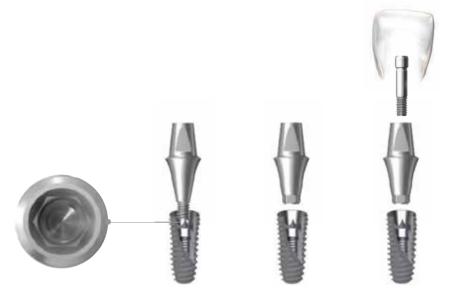
All autoclaves/sterilizers should be regularly validated, maintained and checked in accordance with EN 285/EN 13060, EN ISO 17665, ANSI AAMI ST79 to ensure compliance with these and related standards. Make sure packaging is suitable for steam sterilization.

Recommended Sterilization Parameters

Method-Moist Heat Sterilization	Pre-vacuum	Gravity
Set Point Temperature	132 ℃	132 ℃
Exposure time	4 minutes	30 minutes
Drying time	20 minutes	40 minutes

PROSTHESIS MANUAL

Understanding the Implant and Prosthesis



Biological Connection

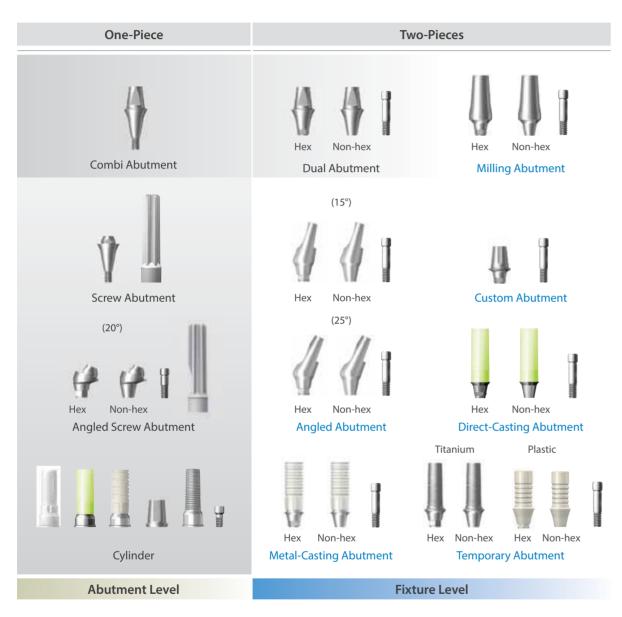
- \cdot The tapered conical hex connection between implant and abutment interface provides hermetic sealing.
- · The biological connection distributes the load to the fixture evenly. Therefore it may minimize bone loss.
- · All implant diameters share the same internal connection. One abutment screw fits all abutments and fixtures.



Types of Abutment (Abutments are available in various diameters & gingival heights)

· Dual Abutment · Combi Abutment	 Abutment level
· Dual Abutment	
· Dual Milling Abutment	
· Angled Abutment (15°/25°)	
· Direct-Casting Abutment	Fixture level
· Metal-Casting Abutment	
· Temporary Abutment (Plastic & Titanium)	
· Screw Abutment · Angled Screw Abutment (15°/ 30°)	 Screw retained (Abutment level)
· Positioner Attachment	
· Ball Attachment	For denture use
· Magnetic Attachment	

Types of Abutment



- · Straight abutments are Dual and Combi Abutment.
- · Depending on the insertion angle and position of the fixture, the Angled or Direct / Metal Casting Abutment may be used.
- ·The Screw Abutment can be used when prosthesis retrieval is anticipated.

Dual Abutment



Dual Abutment

- · It is possible to take an impression at both fixture level and abutment level. (A Dual Abutment may be interchanged with a Combi Abutment)
- · For abutment level impressions, the same prosthetic procedures apply to both Dual and Combi Abutments.
- · For fixture level impressions, the abutment selection takes place on the master model.
- · For fixture level impressions, a precise positioning jig for abutment may be required.
- · Either hex or non-hex abutments may be used, according to operator's preference.
- * If a cement retained restoration requires retrieval, cutting a hole in the occlusal surface would allow access to the screw to permit removal.

Hex / Non-hex

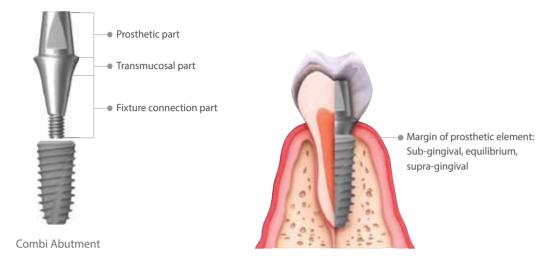
	Hex	Non-hex
Positioning Jig	Unnecessary	Required
Radiograph	Unnecessary	Unnecessary

Dual Abutment Line Up (Hex / Non-hex)

Diameter	G/H	Vertical Angle
Ø4.5	1.0mm, 1.5mm, 2.5mm, 3.5mm, 4.5mm, 5.5mm	5°
Ø5.5	1.5mm, 2.5mm, 3.5mm, 4.5mm, 5.5mm	6°
Ø6.5	1.5mm, 2.5mm, 3.5mm, 4.5mm, 5.5mm	7°



Combi Abutment



- ·The Combi Abutment is used when the implant position is optimal.
- · If the abutment selection is made in the mouth, gauge the thickness of mucosa with the depth gauge to measure the gingival height thus allowing the appropriate abutment height.
- $\cdot \text{The Impression}$ is taken with the snap cap.
- · When using the Combi Abutment, it remains in the mouth after the impression is taken. (Do not remove or change its position)
- · Tighten abutment screw to 25 35 N·cm. (retighten again before seating final prosthesis).
- * If the Combi Abutment is too long it can be adjusted 1.5mm to the bottom of the laser mark on the vertical stack of the abutment. The Combi Abutment has a short analog for the 1.5mm adjustment.
- * A resin jig can be made to record the reduction if reduced more the 1.5mm.

Combi Abutment Line Up

Diameter	G/H	Vertical Angle
Ø4.5	1.0mm, 1.5mm, 2.5mm, 3.5mm, 4.5mm, 5.5mm	5°
Ø5.5	1.5mm, 2.5mm, 3.5mm, 4.5mm, 5.5mm	6°
Ø6.5	1.5mm, 2.5mm, 3.5mm, 4.5mm, 5.5mm	7°



Custom / Milling Abutment





Custom Abutment

Milling Abutment

Custom Abutment

- · Impression is taken at fixture level.
- · When using a non-hex abutment a precise seating jig should be used.

Diameter	G/H	Туре
Ø4.5	0.5mm, 1.5mm	Harri / Niara Inara
Ø5.5	1.0mm, 2.0mm	Hex / Non-hex





Milling Abutment

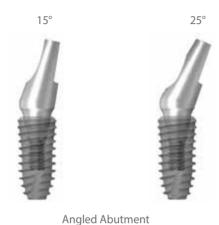
- · Impression is taken at fixture level.
- · When using a non-hex abutment a precise seating jig should be used.
- · Either hex or non-hex abutments may be used, according to operators preference.
- * If a cement retained restoration requires retrieval, cutting a hole in the occlusal surface would allow access to the screw for removal.

Diameter	G/H	Туре
Ø4.0	1.0mm	
Ø4.5	1.5mm	
Ø5.5	1.5mm, 2.5mm	Hex / Non-hex
Ø6.5	1.5mm, 2.5mm, 3.5mm	
Ø7.5	2.5mm, 3.5mm	





Angled Abutment



Angled Abdiment

- · The Angled Abutment is recommended when the restoration path of insertion is unfavorable in either anterior or posterior sites.
- \cdot Retention force can be increased through milling process.

Angled Abutment Line Up

Diameter	G/H	Angle
Ø4.5	1.5mm 2.5mm 3.5mm	15° / 25°
Ø5.5	1.5mm 2.5mm 3.5mm	15 / 25



Direct-Casting / Metal-Casting Abutment



Direct-Casting Abutment

- · Excellent for either single or bridgework
- \cdot Used as an esthetic custom made abutment.
- · Used when angulation is not ideal and a standard abutment cannot be used.
- · Used when there is inadequate inter-arch distance and a standard abutment cannot be used.
- \cdot A fixture level impression is taken, and the soft tissue contours can be supported.

Diameter	eter G/H Type	
Ø4.5	1.0mm	Hex / Non-hex





Metal-Casting Abutment

- \cdot Equivalent results for a fraction of the price
- · Our highly affordable metal alloy replaces expensive gold to alleviate financial burden to all.

Diameter	G/H	Туре
Ø4.5	1.0mm	Hex / Non-hex





Temporary Abutment







Plastic Temporary Abutment

Temporary Abutment

- ·Temporary Abutments are available with titanium or plastic.
- ·The titanium abutment comes in both hex and non-hex with a gingival height of 1.0mm.
- \cdot The plastic abutment comes in diameters (Ø4.5, 5.5, 6.5) with a gingival height of 2.0mm.

Abutment	Diameter	G/H	Туре
Ti-Temporary	Ø4.5	1.0mm	Hex / Non-hex
	Ø4.5		
Plastic Temporary	Ø5.5	2.0mm	Hex / Non-hex
	Ø6.5		

Screw Abutment







Agled Screw Abutment

If prosthesis repair is anticipated, use of a Screw Abutment retained prosthesis enables easy retrieval.

- · Useful for connecting multiple units or when there is a preference for a screw retained prosthesis.
- · Useful when respective long axes of implants differ. Each side tapers by 30° and this permits up to 60° divergence between two abutments.
- \cdot Useful when the prognosis of an adjacent restoration is not ideal thus permitting easy retrieval and modification of the restoration.

Ti-Retaining Screw (1.8mm - body diameter)

- · Can minimize screw loosening due to increased approximal space.
- Can endure various kinds of masticatory force.



Screw Abutment Line Up

Diameter	G/H
Ø4.5	1.0mm, 1.5mm, 2.5mm, 3.5mm, 4.5mm, 5.5mm
Ø5.5	1.5mm, 2.5mm, 3.5mm, 4.5mm, 5.5mm



Angled Screw Abutment Line Up

Diameter	G/H	Angle	
Ø4.5	1.0mm 2.0mm 3.0mm	20°	
Ø5.5	1.0mm 2.0mm 3.0mm		



Points to Consider in Abutment Selection

Considerations in Selecting an Abutment

- · Esthetic requirement
- · Implant angulation
- · Implant location
- · Fixture installation depth (Gingival height)
- · Interarch distance
- · Prosthesis type
- · Dentist & dental technician's preference

Impression of Implant

According to the case the impression can be taken at abutment or fixture level.

	_	
Fiytu	re l	AVA

- 1. Dual Abutment
- 2. Dual Milling Abutment
- 3. Angled Abutment (15° / 25°)
- 4. Direct-Casting Abutment
- 5. Metal-Casting Abutment
- 6. Temporary Abutment (Plastic & Titanium)

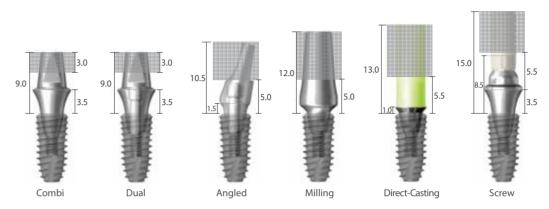
Abutment Level

- 1. Dual Abutment
- 2. Combi Abutment
- 3. Screw Abutment
- 4. Angled Screw Abutment (20°)

Abutment Impression Recommendation

Abutment	Туре	Imprssion
Dual Abutment	Cementation type, screw-cementation type	Fixture level impression or abutment level impression
Combi Abutment	Cementation type	Abutment level impression
Angled Abutment	Cementation type, screw-cementation type	Fixture level impression
Screw Abutment	Screw retained type	Abutment level impression
Direct-Casting Abutment	Cementation type, screw-cementation type	Fixture level impression
Metal-Casting Abutment	Cementation type, screw-cementation type	Fixture level impression
Dual Milling Abutment	Cementation type, screw-cementation type	Fixture level impression

Minimum Height Requirement for SuperLine Prosthetic Abutment



^{*} Diagram above indicates the minimum height required for SuperLine prosthetic abutment.

Maximum Amount of Reduction Allotted for SuperLine

Combi Abutment

· Eliminate 3.0mm from the top level Combi Abutment (laser marking:1.5mm)

Caution _ Damage may be caused to the screw if the abutment is reduced to less than 2.5mm above the gingival height.

Dual Abutment

· Preparation of the abutment top is possible as follows.

Gingival Height	Preparable Amount
1.5mm	2.0
2.5mm	3.0
3.5mm	4.0
4.5mm	5.0
5.5mm	6.0

Angled Abutment & Milling Abutment

 \cdot Preparation of the abutment top is possible as follows.

Direct-Casting Abutment & Metal-Casting Abutment

· Required minimum abutment height: at least 5.5mm above the Fixture top.

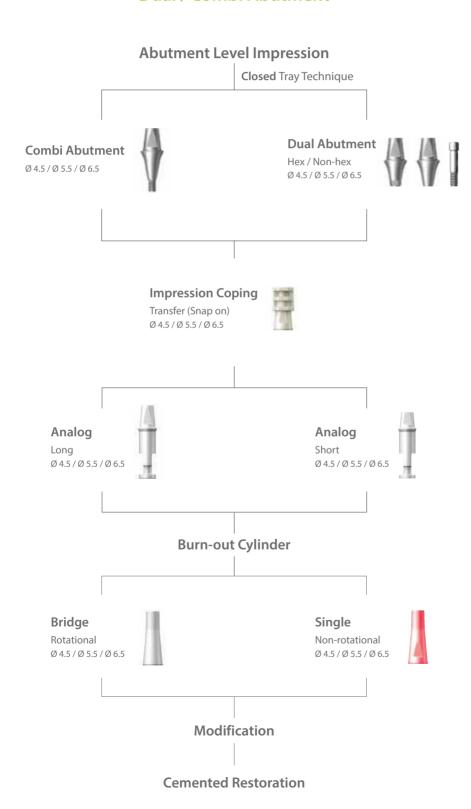
Direct-Casting Abutment & Metal-Casting Abutment

· The Screw Abutment cannot be modified, however the Casting Abutment can be modified for interarch distance, taking reduction into consideration of the height of the retaining screw.

Prosthetic Procedure 1

Impression Technique and Restoration Selection

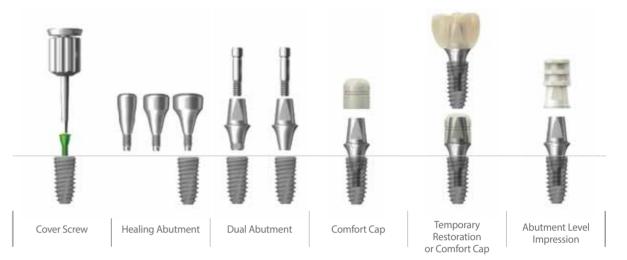
Dual / Combi Abutment



Abutment Level_Dual Abutment

[Multiple Units]

Clinical Procedure



Chairside



Remove the Healing Abutment after formation of soft tissue.



Dual Abutment (Hex / Non-hex)



Select the Dual Abutment by diameter and gingival height.



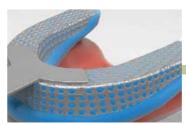
Retighten after 15 minutes Tighten it to 25~30N·cm.



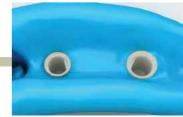
Seat the plastic cap over the abutment.



Injection of impression material



Impression taking



Cap comes off into the impression



Fabrication of provisional restoration or insertion of comfort cap

Abutment Level_Dual Abutment

[Multiple Units]

Abutment Level_Dual Abutment

Clinical Procedure



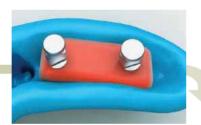
LabSide



Insertion of Combi Abutment analog into impression



Make sure analog seats securely into the impression cap. (line up the flat side of analog to the flat side of the cap)



Soft tissue model



Fabrication of master cast



Seat burn-out cylinder securely into analog.





Completion of wax-up



heigh if needed.



Fabrication of metal framework



Trimming of the extended margin by using the rubber wheel





[Multiple Units]

by 'snap-on' mechanism.



Metal framework after removal of "Lip"



Metal framework



Porcelain build-up

SCRP: Once an access hole has been created, it can be converted to a SCRP (Screw & Cemented Retained Prosthesis).



Final prosthesis



Access hole is made when burn-out cylinder is used to do the wax-up.



Extended margin around the metal framework due to 'snap-on' mechanism



Trim extended margin by rubber wheel



Metal framework and reamer



Eliminate the lip remnant caused by 'snap-on' mechanism by reamer.



Metal framework after removal of "Lip"



Metal framework



Final prosthesis

Fabrication of burn-out cylinder and plastic bar in preparation for wax-up

Abutment Level_Combi Abutment

[Multiple Units] [Multiple Units]

Abutment Level_Combi Abutment

Chairside



Second stage surgery (uncovering)



Following the 2nd stage surgery, soft tissue is healed around the Healing Abutment. Healing Abutment should be selected according to the size of abutment.



Choose abutment with gingival height then tighten it to 25~30N·cm. Re tighten after 15 minutes.



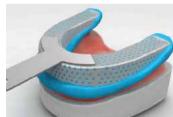
Image of combi Impression coping and abutment assembly



Snap-on the plastic impression coping with the same sized diameter abutment



Impression taking Injection of impression material



Impression taking



Inner-surface of impression



Extended margin around the metal framework due to 'snap-on' mechanism

Chairside



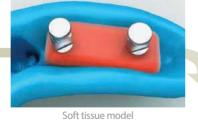
Seating of Lab analog

Fabrication of master cast





Placement of burn-out cylinder





Consider the distance of opposing teeth, modify burn-out cylinders to its proper



Connect the plastic bar in the middle of the trimmed burn-out cylinders to help support the resin pattern. Wax pattern may have shrinkage.



Wax-up



Completed framework



Trimming the extended margin with a rubber wheel



Metal framework and reamer



Removal of lip remnant with reamer caused by 'snap-on' mechanism



Metal Framework after removal of "Lip"



Metal coping adaptation (Completed framework)

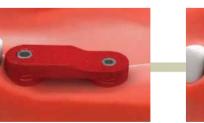


Porcelain build-up final prosthesis

Chairside



* If the combi analog is trimmed due to limited inter-occlusal space in the lab, make a reduction jig. Then a slight modify of the abutment in the oral cavity may be necessary to the height of the jig.

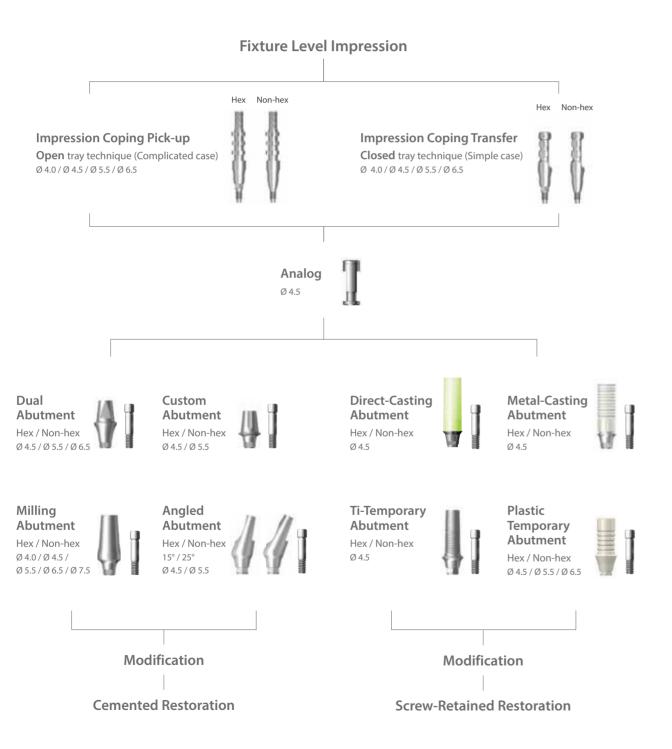


Insertion of final prosthesis and occlusal adjustment

Prosthetic Procedure 2

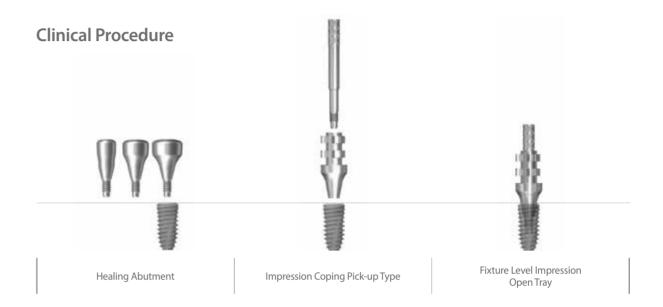
Impression Technique and Restoration Selection

Dual / Custom / Milling / Angled / Direct-Casting / Metal-Casting / Ti-Temporary / Plastic Temporary Abutment



Fixture Level [Pick-up Type]_Dual Abutment

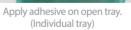
[Multiple Units]











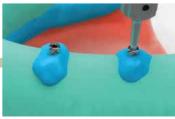


Injecting the impression material





Impression taking



Remove the screw before removing the impression tray.



Inner surface of impression

Fixture Level [Pick-up Type]_Dual Abutment

[Multiple Units]

Fixture Level [Pick-up Type]_Dual Abutment

[Multiple Units]

Clinical Procedure



LabSide



Connect lab analog with impression coping.



Soft tissue model



Fabrication of master cast



Connect a proper abutment



After surveying abutment milling is possible if necessary.



Fabrication of positioning jig



Fabrication of the cap with pattern resin



Wax-up



Metal framework

Chairside



Final prosthesis



Use positioning jig to transfer the abutment in model to oral cavity then tighten it to 25~30N·cm.
Retighten after 15 minutes.



Insertion of the final prosthesis and occlusal adjustment

SCRP-Labside



Formation of access hole with long transfer coping screw



Wax-up



Metal framework

SCRP- Chairside



Final prosthesis



Use positioning jig to transfer the abutment in model to oral cavity then tighten it to 25~30N·cm.
Retighten after 15 minutes.



adjustment of occlusion

* In the process of seating the prosthesis, the prosthesis can be rebounded by gingival tissue. In this case it is advised to apply occlusal load on the prosthesis for 10~15 minutes.

^{*} In the process of seating the prosthesis, the prosthesis can be rebounded by gingival tissue. In this case it is advised to apply occlusal load on the prosthesis for $10\sim15$ minutes.

Fixture Level [Transfer Type]_Dual Abutment

[Multiple Units]

Fixture Level [Transfer Type]_Dual Abutment

[Multiple Units]



Chairside



Second stage surgery (Uncovering)



Soft tissue formed around Healing Abutment



Transfer type impression coping



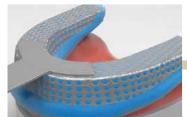
Seating the impression coping which has the same diameter as Healing Abutment



Impression of fixture level (No x-ray necessary for confirmation)



Injection of impression material



Impression taking



Inner surface of the impression

Clinical Procedure



LabSide



Impression coping and analog connection. And insert impression coping into the impression.



Make sure the impression coping is fully seated into the impression



Soft tissue model



Fabrication of master cast



Soft tissue condition after the of impression coping



Measuring gingival height with depth gauge



Selection of Dual Abutment of proper diameter and gingival height



Verify by surveying the selected abutment. (Milling of the abutment is possible if necessary)



Fabrication of positioning jig

Fixture Level [Transfer Type]_Dual Abutment

[Multiple Units]



Seat the cap with pattern resin



Completion of wax-up



Completion of metal framework

Chairside



Final prosthesis built up on the framework with porcelain



Use positioning jig to transfer the abutment in model to oral cavity then tighten it to 25~30N·cm. Retighten after 15 minutes.



Insertion of final prosthesis, adjust occlusion place lab wax into opening of abutment to protect screw head then cement.

SCRP- Labside



Make an access hole in the resin cap by using the long open tray transfer screw.



Completed wax-up



Metal framework

SCRP-Chairside



Final prosthesis built up on the framework with porcelain



Use positioning jig to transfer the abutment in model to oral cavity then tighten it to 25~30N·cm. Retighten after 15 minutes.



Insertion of final prosthesis and occlusal adjustment. Place wax into opening of the abutment prior to sealing with

Fixture Level [Transfer Type]_Milling Abutment

[Single Unit]





Healing Abutment



Impression Coping Transfer Type



Fixture Level Impression Closed Tray

Chairside





Placement of Healing Abutment



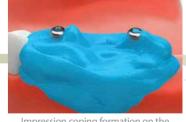
Placement of impression coping with the same diameter as Healing Abutment



Injecting of impression material



Impression taking



Impression coping formation on the inside of impression is observable. . (Traces of impression coping on the inner surface of impression)

Laboratory Procedure



Lab Analog Connection

Milling Abutment



Modification





Crown Wax-up

Final Restoration Cementation Type

^{*} In the process of seating the prosthesis, the prosthesis can be rebounded by gingival tissue. In this case it is advised to apply occlusal load on the prosthesis for 10~15 minutes.

Fixture Level [Transfer Type]_Milling Abutment

[Single Unit]

Labside



Impression coping and analog connection. And insert impression coping into the impression.



Soft tissue model



Master cast



Selection of appropriate Dual Milling Abutment



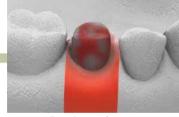
Abutment after milling process



Fabrication of positioning jig



Fabrication of pattern resin cap



Completion of wax-up



Metal framework

Chairside



Final prosthesis



Use positioning jig to transfer the abutment in model to oral cavity then tighten it to 25~30N-cm.

Retighten after 15 minutes.



Insertion of final prosthesis and occlusal adjustment

Fixture Level [Pick-up Type]_Angled Abutment

[Single Unit]



Chairside



Pick-up type impression coping



Placement of pick-up impression



Injecting impression material



Impression taking (individual tray with holes)



Unscrew, then remove the impression.



Removed impression

Laboratory Procedure

Lab Analog Connection



Angled Abutment Connection



Modification



Crown Wax-up



-up Final Restoration
Cementation Type

 $^{^*}$ In the process of seating the prosthesis, the prosthesis can be rebounded by gingival tissue. In this case it is advised to apply occlusal load on the prosthesis for 10~15 minutes.

Fixture Level [Pick-up Type]_Angled Abutment

[Single Unit]

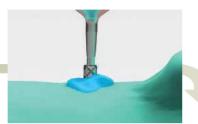
Labside



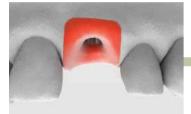
Impression coping with analog



Soft tissue formation and fabrication of master model



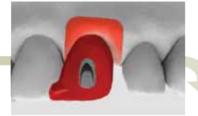
Unscrew then separate impression from the model.



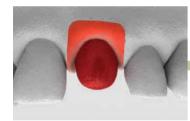
Master cast



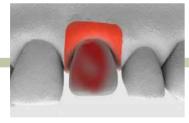
Select an Angled Abutment.



Modification of Angled Abutment & fabrication of positioning jig



Fabrication of pattern resin cap



Metal or zirconia framework



Final prosthesis



Insertion of the Angled Abutment using positioning jig



Insertion of final prosthesis and occlusal adjustment

Fixture Level_Direct-Casting Abutment

[Single Unit]

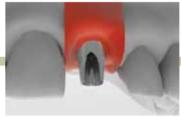
Laboratory Procedure



LabSide



Placement of Direct-Casting Abutment

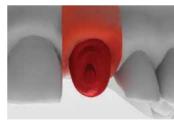


Completed custom abutment

Chairside

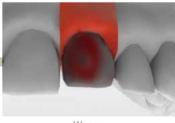


Fabrication of positioning jig

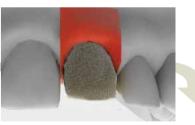


Fabrication of pattern resin cap

Final prosthesis



Wax-up



Metal framework

The contract of



Insertion of custom abutment using positioning jig

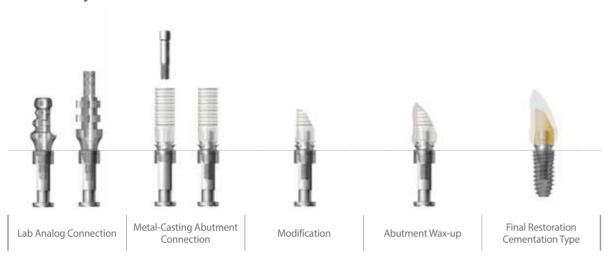


Insertion of final prosthesis and occlusal adjustment

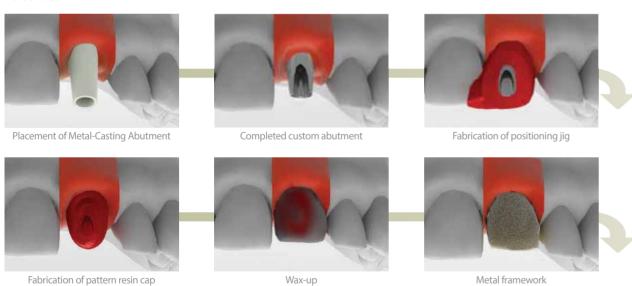
Fixture Level_Metal-Casting Abutment

[Single Unit] [Single Unit]

Laboratory Procedure



LabSide



Chairside



Final prosthesis



Insertion of custom abutment using positioning jig



Insertion of final prosthesis and occlusal adjustment

Fixture Level [Pick-up Type]_Temporary Abutment

Ti-Temporary Abutment

Plastic Temporary Abutment

<Using Ti Abutment>



Considering the opposing teeth before seating the Temporary Abutment, trim off the abutment as needed and complete the Temporary Abutment prosthesis with direct resin.

<Using Plastic Abutment>

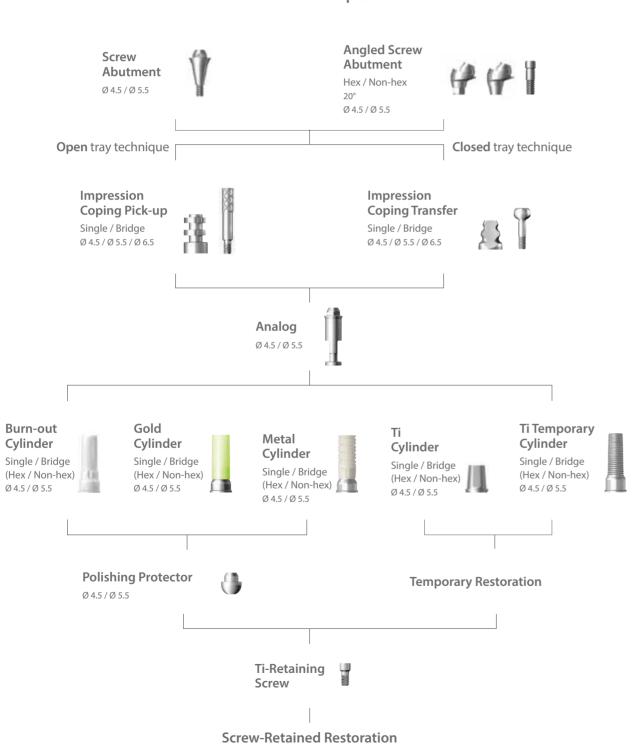


Prosthetic Procedure 3

Impression Technique and Restoration Selection

Screw Abutment

Abutment Level Impression



Abutment Level [Transfer Type]_Screw Abutment

[Multiple Units]

Placement of comfort cap on

Screw Abutment

Clinical Procedure



LabSide

Impression taking



Inner-surface of impression

Abutment Level [Transfer Type]_Screw Abutment

[Multiple Units]

Laboratory Procedure



LabSide



Connecting impression coping with Screw Abutment analog



Position impression coping and analog assembly in the exact location of the impression



Soft tissue model



Fabrication of master cast



Removal of impression coping



Connect the Screw Abutment cylinder then tighten it with ti-retaining screw.



Consider the distance with opposing teeth, then trim cylinder to its appropriate height.



Connect the plastic bar in the middle of trimmed burn-out cylinders to help support the wax pattern. Wax pattern may have shrinkage.



Wax-up

Abutment Level [Transfer Type]_Screw Abutment

[Multiple Units]



Metal framework



Removal of lip remnant in the interior of metal framework by using reamer



Completion of metal framework



Completion of porcelain



Insertion of final prosthesis and occlusal adjustment. Tighten with ti-retaining screw (25~30N·cm.).

Cementation Repair Method (SCRP)

[Screw & Cement Retained Prosthesis]

In Light of Implant Prosthesis:

- · A screw type restoration helps to simplify prosthesis repair, including insertion and removal of the prosthesis if necessary.
- · Cement type restoration tend to have a stable occlusion and may enhance the adaptability. However the weak point is that it cannot be removed after permanent cementation.
- · A Dual Abutment can be cemented or screw retained.
- · Combi Abutments are cement retained and no occlusal hole is necessary.

In Case of Screw Loosening or when Prosthesis Repair is Needed



In case of the following: screw loosing Prosthesis repair



In order to unscrew, form access hole on the occlusal surface using bur.



Unscrew, then remove the prosthesis from the oral cavity.



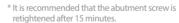
Both cemented prosthesis and abutment are removed.



Finish the repair then seat it inside the



Tighten the prosthesis with 25~30N·cm by a screw driver.





Fill the access hole with cotton.



Fill the access hole with resin.



Final prosthesis

Cementation Repair Method (SCRP)

[Screw & Cement Retained Prosthesis]

Prosthesis Separation from Abutment due to Cement Loss



Remove the screw completely with screw driver and remove prosthesis from the patient's mouth.



Apply cement to the prosthesis.



Place it back into the patient's mouth.



After the cement setting, unscrew and remove the excessive cement.



Finish the repair and seat it inside the patient's mouth.



Tighten the prosthesis with 25~30N·cm with a screw driver.

Adding to the Interproximal Contact Surface due to Prosthesis Loosening



Prosthesis loosening due to contact loosening



Form access hole using bur



Unscrew, then remove the cemented prosthesis with abutment in the oral cavity.



Contact adding with resin on the



prepared under space.



and screw it in. Afterwards, perform light curing, then polish the contact area.

Insert the prosthesis in the oral cavity



Position the prosthesis in the mouth and tighten the screw with 25~30N·cm, then

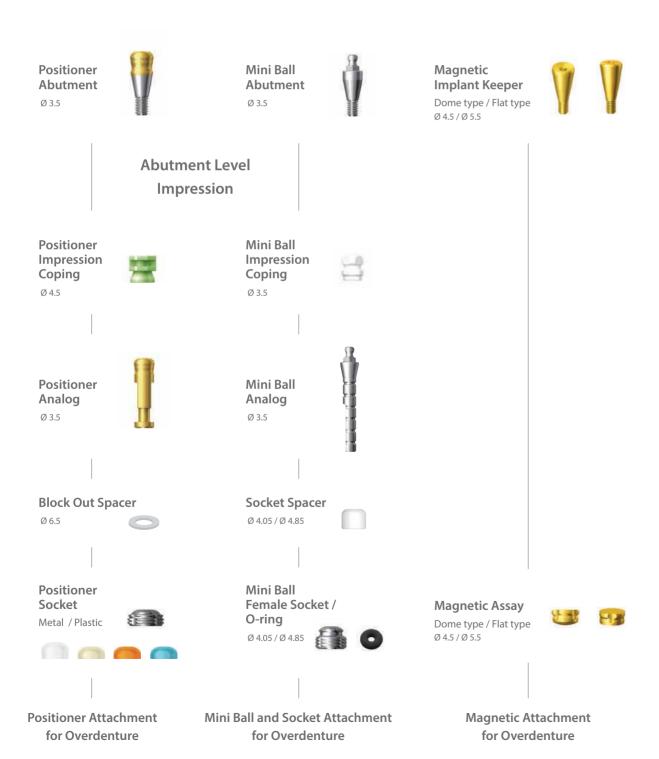
* It is recommended that the abutment screw is retightened after 15 minutes.

Prosthetic Procedure 4

Impression Technique and Restoration Type

Overdenture Procedure

Positioner / Mini Ball / Magnetic Attachment



Positioner

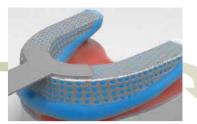
Chairside



Connect the Positioner Abutment onto the fixture.



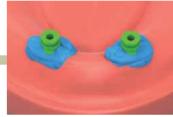
Affix the impression coping on the Positioner Abutment.



Take Impression for the production of individual tray.



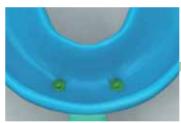
Produce the individual tray for denture impression.



After connecting the Positioner Abutment and the impression coping together, apply the impression material.



Take the final impression with the prepared individual tray.



After the impression material is set, discard the individual tray.

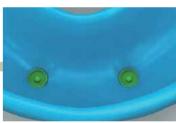
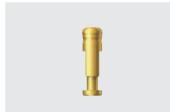


Image of the set final impression (with impression coping)

Labside



Positioner Analog



Insert the Positioner Analog into the embedded impression coping.



Create the master model.



"Block out" procedure to achieve the space required for the metal socket.



Fabrication of denture with conventional method

Positioner

Case 1

Chairside



Secure spaces for the female sockets.



Place the "block out spacer" on the Positioner Abutment in the patient's mouth.



Connect the metal socket onto the Positioner Abutment.



Apply a small amount of resin into the space created for the metal socket.



Position the denture in the mouth and wait until the resin is completely set.



Remove the white plastic socket (100gf) using the positioner tool and assemble with the regular plastic socket giving the desired retention force (300, 500 or 1000qf).



Secure spaces for the female sockets.



Place the "block out spacer" on the Positioner Abutment in the patient's mouth.



Connect the metal socket onto the Positioner Abutment.

Positioner

Case 1

Chairside



Create holes for the placement of the metal sockets.



Place the "block out spacer" on the Positioner Abutment in the intraoral.



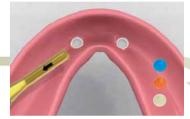
Connect the metal socket onto the Positioner Abutment.



Examine the interference between inner surface of the holes and the female sockets.



Apply the resin into the holes and wait until it is completely set.



Remove the white plastic socket (100gf) using the Positioner tool and assemble with the regular plastic socket giving the desired retention force (300, 500 or 1000gf).



Apply additional resin around the metal socket where there is a shortage of resin.



Apply resin around the metal socket.



After polishing, the overdenture is completed.

Mini Ball Attachment

Case 1



Secure spaces for the female sockets.



Position the denture in the oral cavity and wait until the resin is completely set.

Case 2



Create holes for placement of female sockets.



Apply the resin into the holes and wait until it is completely set.



After polishing, the overdenture is completed.

Chairside



Connect the female sockets to the Mini Ball Abutments in the intra-oral.



Apply small amount of the resin



After polishing, the overdenture is completed.

Chairside



in the denture.

Connect the female sockets to the Mini Ball Abutments in the intra-oral.



Examine the interference between inner surface of the holes and the



Female sockets are placed in the denture.



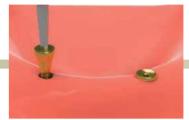
Apply resin around the female sockets.

Magnetic Attachment

Chairside



After Healing Abutment removal



Connect implant keeper with fixture and tighten it with 25~30N·cm.



Implant keepers connected with the fixtures



Position the magnetic assay on the implant keeper.



Secure spaces for the magnetic assays.

Chairside

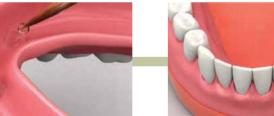


Examine the interference between inner divot of the denture and the magnets.

Case 1



Apply resin on the divot of the denture's inner surface.



Position the denture into the mouth and wait until the resin is completely set.



Magnetic assays are placed in the denture.



Apply some of resin around the magnetic assays.



After the resin is completely set, remove excess. After polishing, the overdenture is completed.

Magnetic Attachment

Case 2



Create holes for the placement of the magnets.

Chairside



Examine the interference between inner surface of the holes and the magnets.



Position the denture in the mouth and apply small amount of resin into the hole.



Wait until the resin is completely set.



After setting, remove denture from the mouth.



Add the resin around the magnets.



After polishing, the overdenture is completed.

Renewal









New Product







