

# New SuperLine II & Implantium II

## Product/Manual Catalog

**Dentium**

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

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NS2PG-202506

for Overseas

**Dentium**





**SuperLine II & Implantium II**

*A New Choice  
For the Customer*

**Dentium**



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## S.L.A. Surface

S.L.A. (Sandblasting with Large grits and Acid etching)

- ~ Higher bone-to-implant contact
- ~ Faster bone formation on the surface

*reference: Kim H., et. al. "The Biocompatibility of SLA-treated Titanium Implants" Biomed. Mater. 2008; 3(2):025011*

*In vivo test*





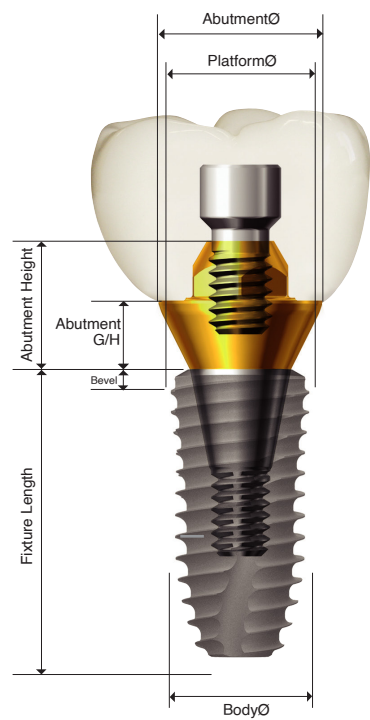
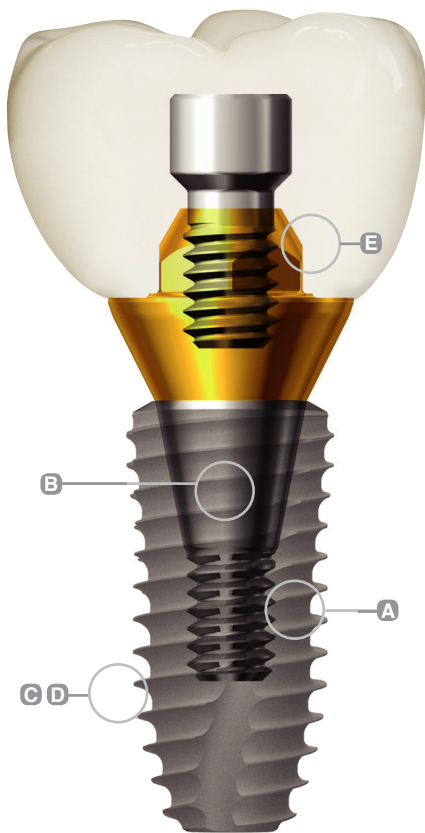
***Super*** Lr̄ne II



# SuperLine II Characteristics

## "Immediate Implantation with Excellent Bone Response"

- Higher stabilization in extraction socket
- Early loading in upper posterior
- Harmony with anatomy
- Sharp & fast insertion



### Selection Guideline

Ideal emergence profile for each tooth





# SuperLine II Characteristics

## Material

- **Unalloyed Titanium ASTM F67**  
(Commercially pure titanium grade 4)

## Platform-Switched Design with Conical Connection

- Helps to preserve marginal bone <sup>2</sup>
- Milled beveled collar

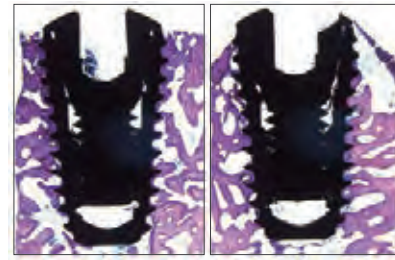
## One Restorative Connection - Single Simple Solution

- All SuperLine II implants share  
One prosthetic platform  
One size abutment screw\*  
One size hex driver

## S.L.A. Surface Treatment

(Sandblasted with Large grits and Acid etched)

- Well-documented and clinically proven surface technology <sup>1</sup>



## Double-Threaded, Tapered Body Design<sup>3</sup>



- Easy and smooth insertion
- Sharp threads to help minimize stress on the bone
- Deep threads to help increase primary stability

## 3 Full Length Cutting Flutes

- 3 self-tapping blades
- Efficient in all bone types



\*Angled Screw Abutment is restored with a shorter length screw. Refer to page 49 & 50.

1. Nevins, Myron, et al. "Clinical and Histologic Evaluations of SLA Dental Implants" *The International Journal of Periodontics & Restorative Dentistry*, 2017 37:175-181. doi: 10.11607/prd.3131

2. Hsu, Yung-Ting, et al. "Comparison of Clinical and Radiographic Outcomes of Platform-Switched Implants with a Rough Collar and Platform-Matched Implants with a Smooth Collar: A 1-Year Randomized Clinical Trial." *The International Journal of Oral & Maxillofacial Implants*, 2016, pp. 382-390, <https://doi.org/10.11607/jomi.4189>.















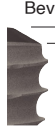
3. Kim, Tae Hyung, et al. "Prospective, 1-Year Observational Study of Double-Threaded Tapered Body Dental Implants with Immediate Loading." *The Journal of Prosthetic Dentistry*, vol. 114, no. 1, 2015, pp. 46-51, <https://doi.org/10.1016/j.prosdent.2014.12.016>.



# SuperLine II Color Coding by Diameter

## Color Coding by Diameter

• Cover screw is not included. (Unit: mm)

Cap Color							
		Yellow	Green	Blue	Red	Orange	Violet
Fixture SuperLine (Mount Free)							
	PlatformØ  Fixture Platform Diameter	3.7	4.0	4.5	5.0	6.0	7.0
	BodyØ  Fixture Body Diameter	3.6	4.0	4.5	5.0	5.0	5.8
	L : 7  Fixture Bevel Height	1.5	1.5	1.5	1.5	1.5	1.5
	L : 7B, 8, 10, 12, 14, 16  Fixture Bevel Height	0	0.1	0.3	0.4	0.7	1.0

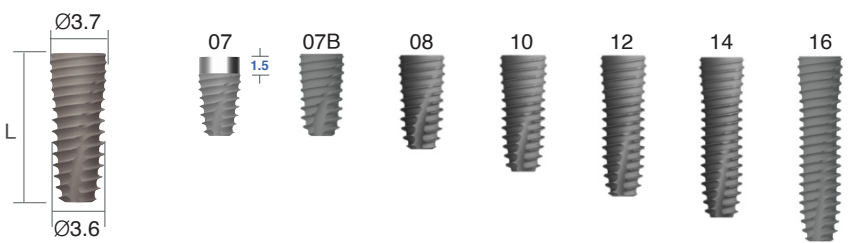


# SuperLine II Fixture

Unit: mm, Scale 1 : 1.5 / mm

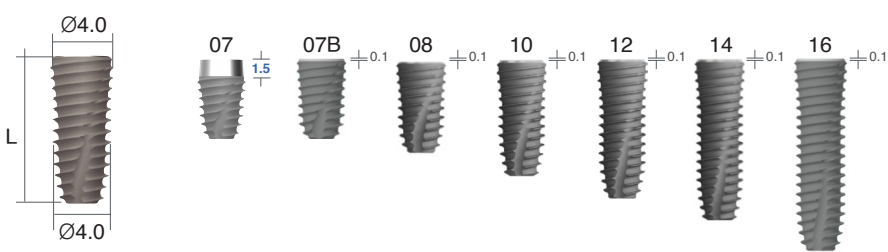
Platform Ø3.7 | Body Ø3.6

L	Art. No.
7	FXS 3607
7B	FXS 3607 B
8	FXS 3608
10	FXS 3610
12	FXS 3612
14	FXS 3614
16	FXS 3616



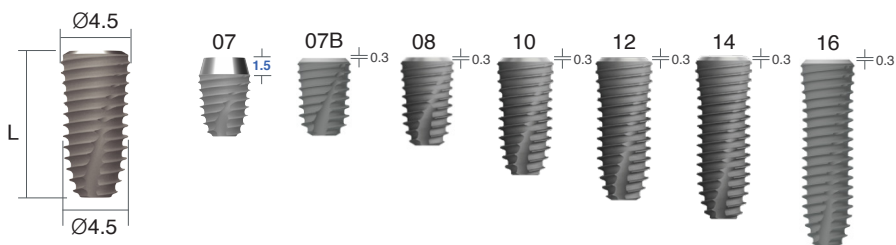
Platform Ø4.0 | Body Ø4.0

L	Art. No.
7	FXS 4007
7B	FXS 4007 B
8	FXS 4008
10	FXS 4010
12	FXS 4012
14	FXS 4014
16	FXS 4016



Platform Ø4.5 | Body Ø4.5

L	Art. No.
7	FXS 4507
7B	FXS 4507 B
8	FXS 4508
10	FXS 4510
12	FXS 4512
14	FXS 4514
16	FXS 4516



※ Note: 1) Cover screw is not included  
2) Recommended insertion torque is 30~45 N·cm at 20rpm. Countersink drill can be used on dense cortical bone. Do not over-torque during the implant insertion.

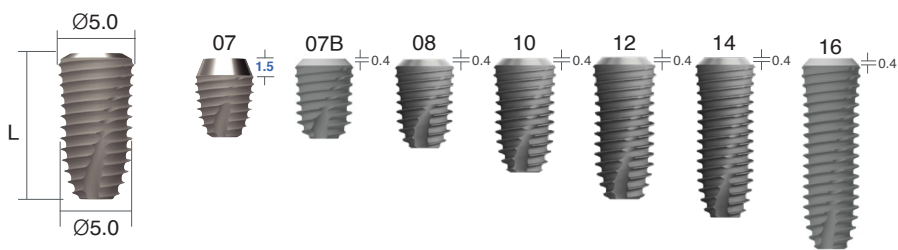


# SuperLine II Fixture

Unit: mm, Scale 1 : 1.5 / mm

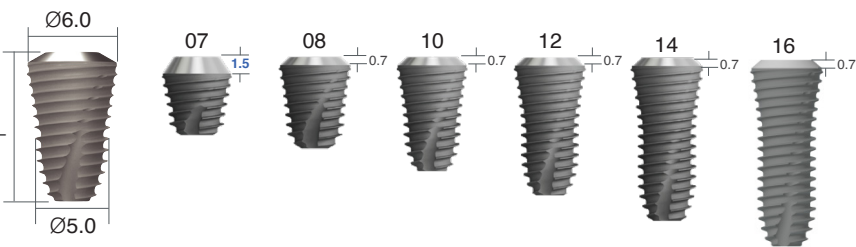
Platform Ø5.0 | Body Ø5.0

L	Art. No.
7	FXS 5007
7B	FXS 5007 B
8	FXS 5008
10	FXS 5010
12	FXS 5012
14	FXS 5014
16	FXS 5016



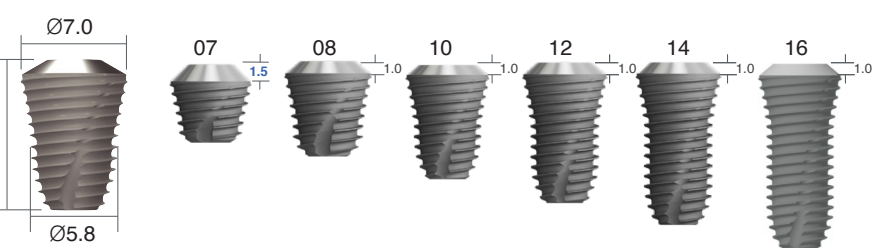
Platform Ø6.0 | Body Ø5.0

L	Art. No.
7	FXS 6007
8	FXS 6008
10	FXS 6010
12	FXS 6012
14	FXS 6014
16	FXS 6016



Platform Ø7.0 | Body Ø5.8

L	Art. No.
7	FXS 7007
8	FXS 7008
10	FXS 7010
12	FXS 7012
14	FXS 7014
16	FXS 7016



※ Note: 1) Cover screw is not included  
2) Recommended insertion torque is 30~45 N·cm at 20rpm. Countersink drill can be used on dense cortical bone.  
Do not over-torque during the implant insertion.

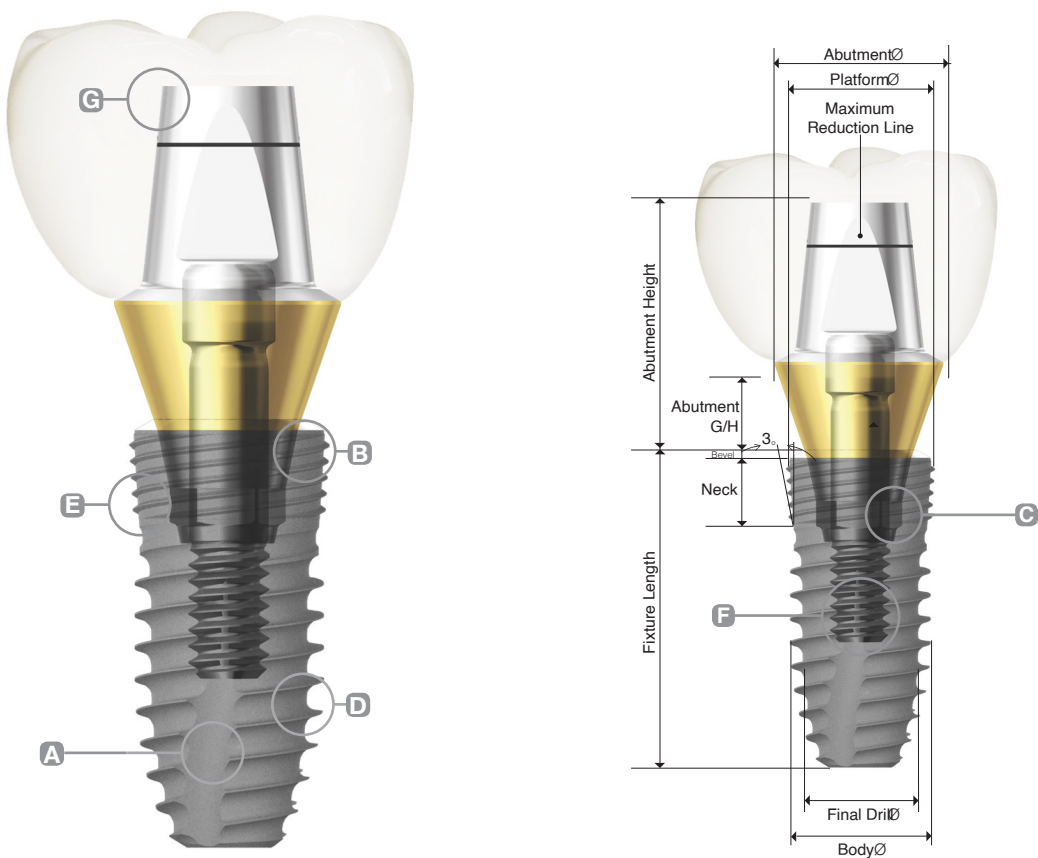




IMPLANTUM II



# Implantium II Characteristics



## Selection Guideline

Ideal emergence profile for each tooth



# Implantium II Characteristics

## Material

- **Unalloyed Titanium ASTM F67**  
(Commercially pure titanium grade 4)

## Platform-Switched Design with Connical Connection

- Helps to preserve marginal bone <sup>3</sup>
- Milled beveled collar

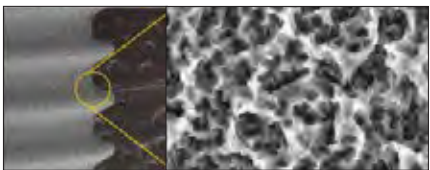
## Fully Compatible Prosthetic Platform

- One abutment fits all Implantium fixtures
- One size abutment screw\*
- One size hex driver (1.28mm hex)

## S.L.A. Surface Treatment

(Sandblasted with Large grits and Acid etched)

- Well-documented and clinically proven surface technology <sup>1,2</sup>

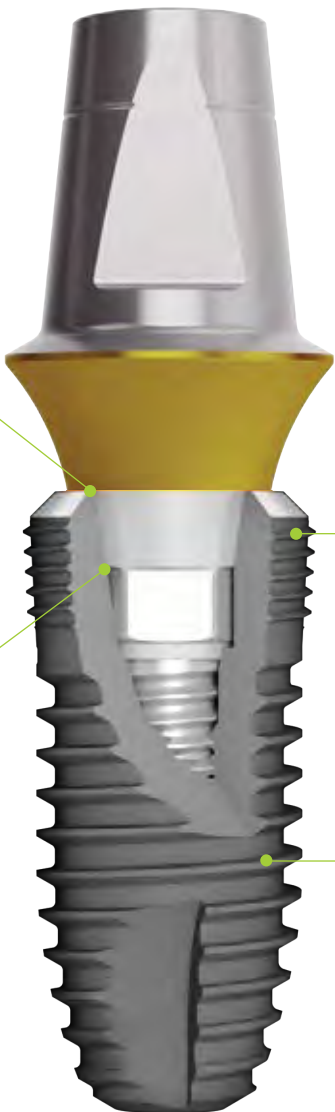


## Optimal Fixation Threads

- Helps to enhance initial stability between the cortical bone and fixture

## Biological Thread

- Thread platform design enhances bone to implant contact.
- Threads engage and penetrate bone with ease.



1. Nevins, Myron, et al. "Clinical and Histologic Evaluations of SLA Dental Implants" *The International Journal of Periodontics & Restorative Dentistry*. 2017 37:175-181. doi: 10.11607/prd.3131

2. Kim, Hyeongil, et al. "The biocompatibility of SLA-treated titanium implants." *Biomedical Materials*, vol. 3, no. 2, 2008, p. 025011, <https://doi.org/10.1088/1748-6041/3/2/025011>.










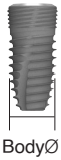

3. Hsu, Yung-Ting, et al. "Comparison of Clinical and Radiographic Outcomes of Platform-Switched Implants with a Rough Collar and Platform-Matched Implants with a Smooth Collar: A 1-Year Randomized Clinical Trial." *The International Journal of Oral & Maxillofacial Implants*, 2016, pp. 382-390, <https://doi.org/10.11607/jomi.4189>.



# Implantium II Color Coding by Diameter

## Color Coding by Diameter

• Cover screw is not included. (Unit: mm)

Cap Color					
		Yellow	Green	Blue	Red
Fixture Implantium II (Mount Free)					
	Fixture Platform Diameter	3.7	4.0	4.5	5.0
	Fixture Body Diameter	3.6	4.0	4.5	5.0
	Fixture Bevel Height	0.2	0.1	0.3	0.4

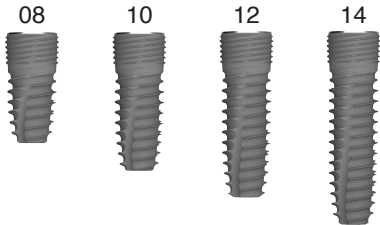
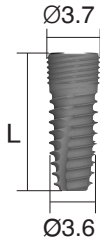
※ Note: 1) Cover screw is not included  
2) Recommended insertion torque is 30~45 N·cm at 20rpm. Countersink drill can be used on dense cortical bone.  
Do not over-torque during the implant insertion.

# Implantium II Fixture

Unit: mm, Scale 1 : 1.5 / mm

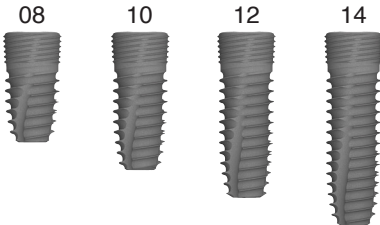
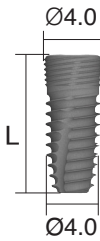
**Platform Ø3.7 | Body Ø3.6**

L	Art. No.
8	FXI 3608
10	FXI 3610
12	FXI 3612
14	FXI 3614



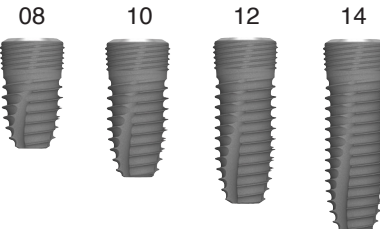
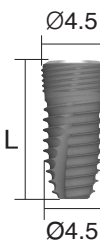
**Platform Ø4.0 | Body Ø4.0**

L	Art. No.
8	FXI 4008
10	FXI 4010
12	FXI 4012
14	FXI 4014



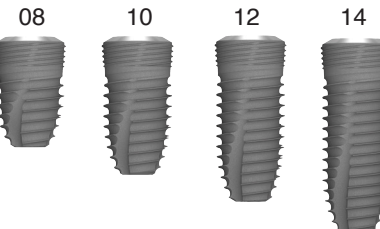
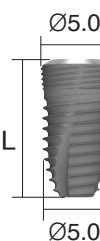
**Platform Ø4.5 | Body Ø4.5**

L	Art. No.
8	FXI 4508
10	FXI 4510
12	FXI 4512
14	FXI 4514



**Platform Ø5.0 | Body Ø5.0**

L	Art. No.
8	FXI 5008
10	FXI 5010
12	FXI 5012
14	FXI 5014

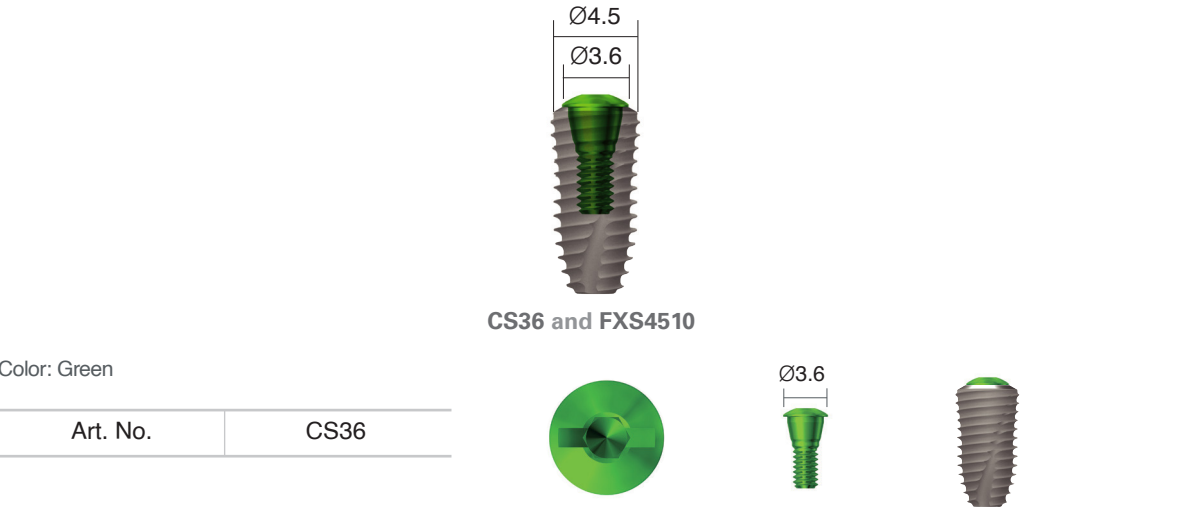




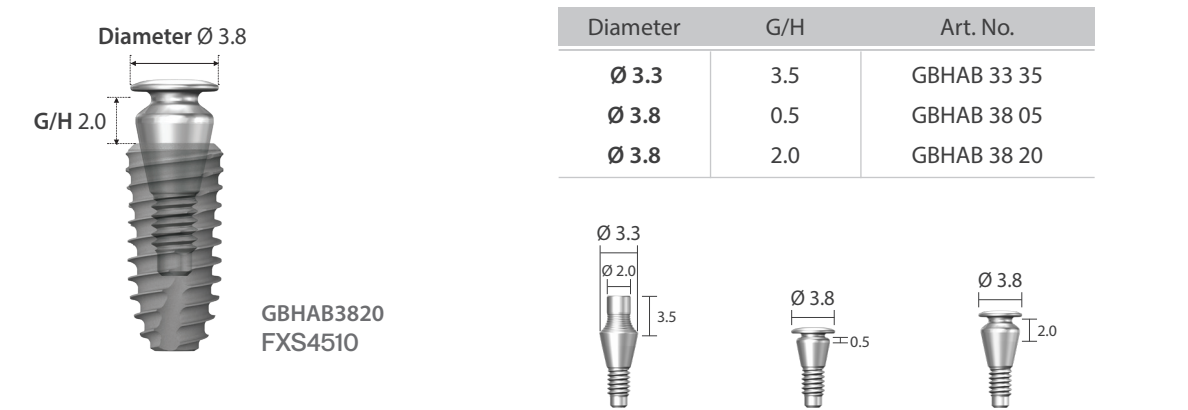
# Cover Screw

Unit: mm, Scale 1 : 1.5 / mm

- Single use only
- Compatible throughout all Dentium SuperLine II, SuperLine, and Implantium dental implant systems across all diameters.
- **NOTE:** Use no more than 10 N·cm of torque when tightening the Cover Screw. If the hex is worn, the slot on the head of the Cover Screw can be used to rotate it.

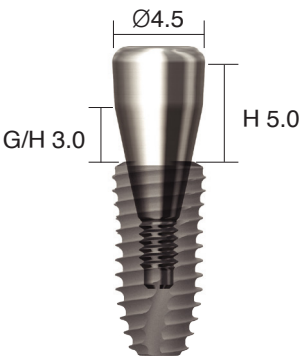


# GBR Healing Abutment



- Single use only
- Compatible throughout all Dentium SuperLine II, SuperLine, and Implantium dental implant systems across all diameters.
- **NOTE:** Use no more than 10 N·cm of torque when tightening the Cover Screw. If the hex is worn, the slot on the head of the Cover Screw can be used to rotate it.

# Healing Abutment



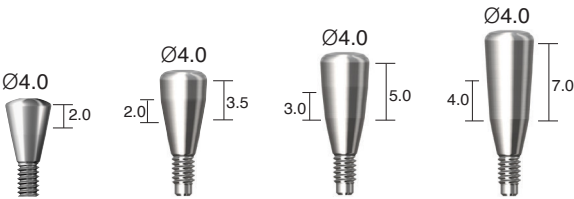
Unit: mm, Scale 1 : 1.5 / mm

- Single use only, provided sterile
- Compatible throughout all Dentium SuperLine II, SuperLine, and Implantium dental implant systems across all diameters.
- **NOTE** : Use no more than 10 N cm of torque when tightening the Healing Abutment. If the hex is worn, the slot on the head of the Healing Abutment can be used to rotate it.

HAB453050L and FXS4510

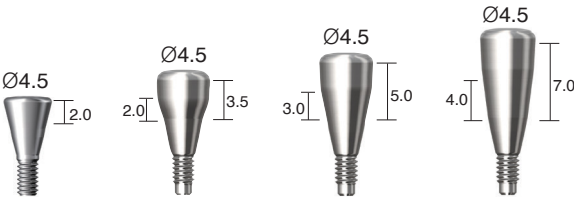
## Diameter Ø4.0

G/H	H	Art. No.
2.0	2.0	HAB 40 <b>20</b> 20 L
2.0	3.5	HAB 40 <b>20</b> 35 L
3.0	5.0	HAB 40 <b>30</b> 50 L
4.0	7.0	HAB 40 <b>40</b> 70 L



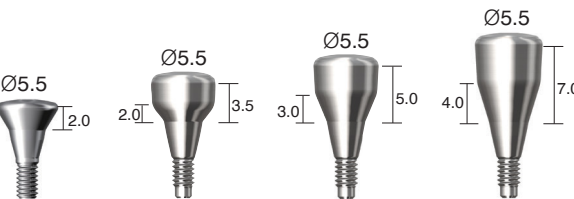
## Diameter Ø4.5

G/H	H	Art. No.
2.0	2.0	HAB 45 <b>20</b> 20 L
2.0	3.5	HAB 45 <b>20</b> 35 L
3.0	5.0	HAB 45 <b>30</b> 50 L
4.0	7.0	HAB 45 <b>40</b> 70 L



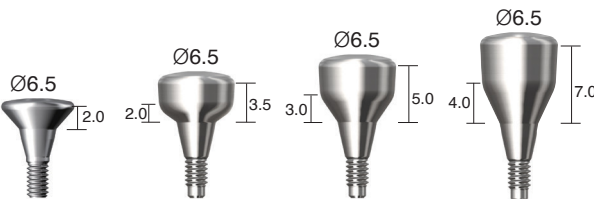
## Diameter Ø5.5

G/H	H	Art. No.
2.0	2.0	HAB 55 <b>20</b> 20 L
2.0	3.5	HAB 55 <b>20</b> 35 L
3.0	5.0	HAB 55 <b>30</b> 50 L
4.0	7.0	HAB 55 <b>40</b> 70 L



## Diameter Ø6.5

G/H	H	Art. No.
2.0	2.0	HAB 65 <b>20</b> 20 L
2.0	3.5	HAB 65 <b>20</b> 35 L
3.0	5.0	HAB 65 <b>30</b> 50 L
4.0	7.0	HAB 65 <b>40</b> 70 L



## Diameter Ø7.5 / 8.5 / 9.5

G/H	H	Art. No.
3.0	5.0	HAB 75 <b>30</b> 50 E
3.0	5.0	HAB 85 <b>30</b> 50 E
3.0	5.0	HAB 95 <b>30</b> 50 E



※ Hex driver: Use no more than 10N·cm of torque when screwing a healing abutment to a fixture.  
If hex is worn, slot on the head of the product can be used to rotate it.

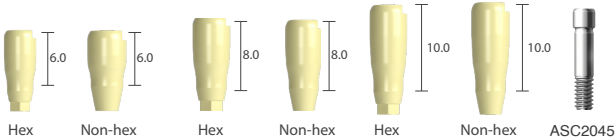


# Scan Abutment

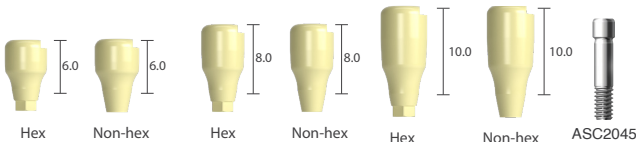
- Single use only, provided sterile
- Abutment screw included
- Compatible throughout all Dentium SuperLine II, SuperLine, and Implantium dental implant systems across all diameters.
- **NOTE:** Use no more than 10 N cm of torque when tightening the Scannable Healing Abutment.

Unit: mm, Scale 1.5 : 1

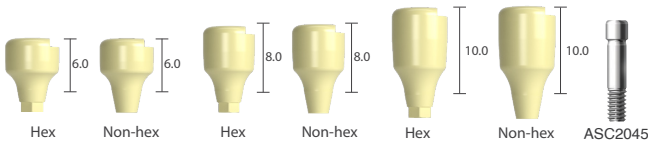
Diameter	Height	G/H	Type	Art. No.
Ø 4.0	6.0	2.5	Hex	IHAB 40 06 H
	6.0	2.5	Non-hex	IHAB 40 06 N
	8.0	3.0	Hex	IHAB 40 08 H
	8.0	3.0	Non-hex	IHAB 40 08 N
	10.0	3.5	Hex	IHAB 40 10 H
	10.0	3.5	Non-hex	IHAB 40 10 N



Diameter	Height	G/H	Type	Art. No.
Ø 5.0	6.0	2.5	Hex	IHAB 50 06 H
	6.0	2.5	Non-hex	IHAB 50 06 N
	8.0	3.0	Hex	IHAB 50 08 H
	8.0	3.0	Non-hex	IHAB 50 08 N
	10.0	3.5	Hex	IHAB 50 10 H
	10.0	3.5	Non-hex	IHAB 50 10 N



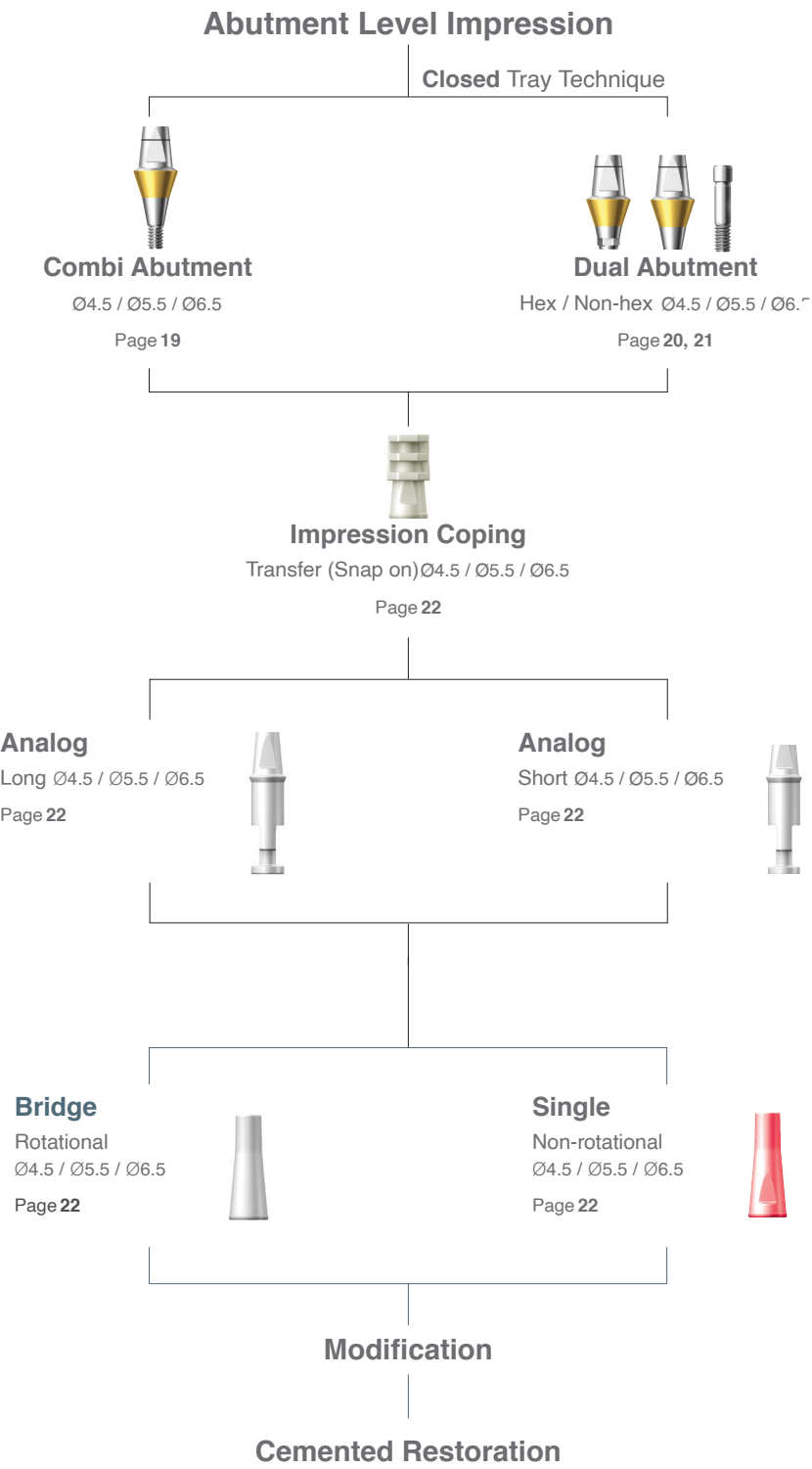
Diameter	Height	G/H	Type	Art. No.
Ø 6.0	6.0	2.5	Hex	IHAB 60 06 H
	6.0	2.5	Non-hex	IHAB 60 06 N
	8.0	3.0	Hex	IHAB 60 08 H
	8.0	3.0	Non-hex	IHAB 60 08 N
	10.0	3.5	Hex	IHAB 60 10 H
	10.0	3.5	Non-hex	IHAB 60 10 N



# Prosthetic Procedure 1

Impression Technique and Restoration Selection

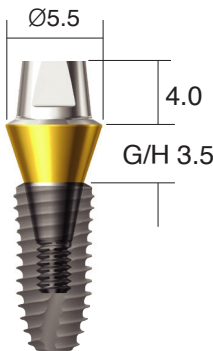
## Dual / Combi Abutment



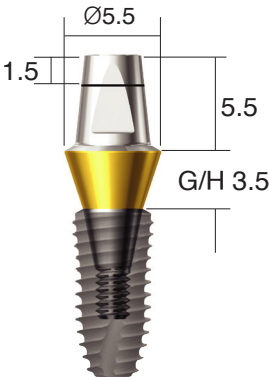


# Combi Abutment

Unit: mm, Scale 1 : 1 / mm



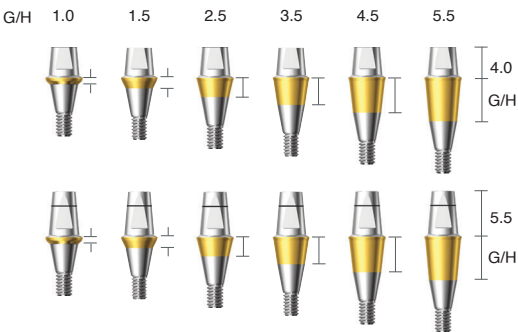
CAB5535SL and FXS4510



CAB5535L and FXS4510

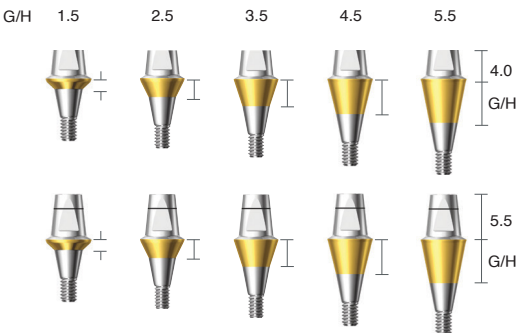
## Diameter Ø4.5

G/H	Type	Art. No.	Type	Art. No
1.0	Short	CAB 45 10 SL	Long	CAB 45 10 L
1.5		CAB 45 15 SL		CAB 45 15 L
2.5		CAB 45 25 SL		CAB 45 25 L
3.5		CAB 45 35 SL		CAB 45 35 L
4.5		CAB 45 45 SL		CAB 45 45 L
5.5		CAB 45 55 SL		CAB 45 55 L



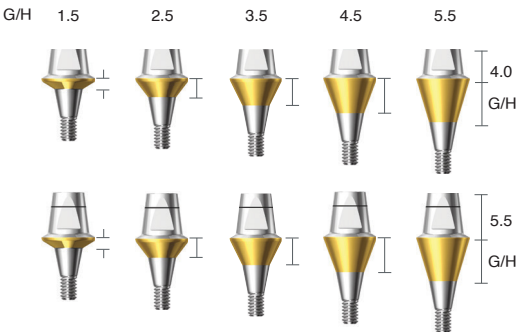
## Diameter Ø5.5

G/H	Type	Art. No.	Type	Art. No
1.5	Short	CAB 55 15 SL	Long	CAB 55 15 L
2.5		CAB 55 25 SL		CAB 55 25 L
3.5		CAB 55 35 SL		CAB 55 35 L
4.5		CAB 55 45 SL		CAB 55 45 L
5.5		CAB 55 55 SL		CAB 55 55 L



## Diameter Ø6.5

G/H	Type	Art. No.	Type	Art. No
1.5	Short	CAB 65 15 SL	Long	CAB 65 15 L
2.5		CAB 65 25 SL		CAB 65 25 L
3.5		CAB 65 35 SL		CAB 65 35 L
4.5		CAB 65 45 SL		CAB 65 45 L
5.5		CAB 65 55 SL		CAB 65 55 L



※ Note: 1) One-piece abutment

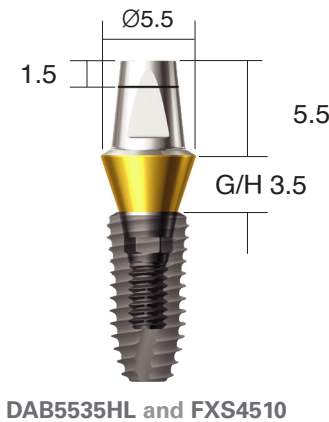
2) Compatible throughout all Dentium SuperLine II, SuperLine, and Implantium dental implant systems across all diameters

3) Recommended tightening torque for the Combi Abutment is 30–35 N cm.  
Retighten with the same torque after 15 minutes to verify the maximum screw tension.

# Dual Abutment [Hex]

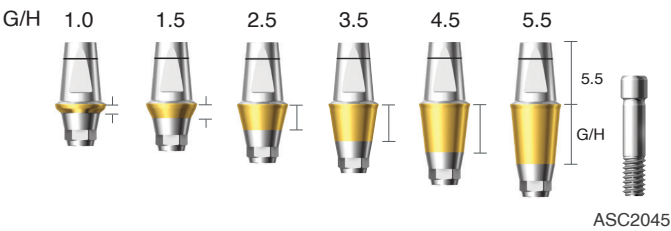
• Abutment screw is included.

Unit: mm, Scale 1 : 1.5 / mm



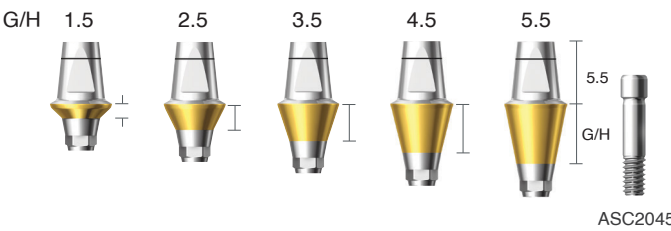
## Diameter Ø4.5 | Hex

G/H	Art. No.
1.0	DAB 45 10 HL
1.5	DAB 45 15 HL
2.5	DAB 45 25 HL
3.5	DAB 45 35 HL
4.5	DAB 45 45 HL
5.5	DAB 45 55 HL



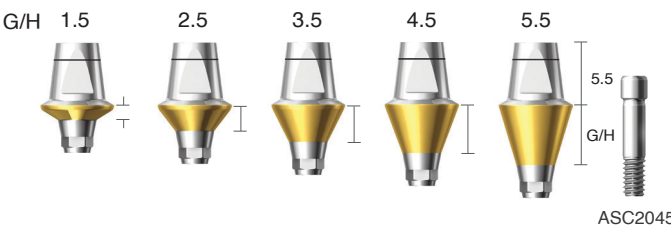
## Diameter Ø5.5 | Hex

G/H	Art. No.
1.5	DAB 55 15 HL
2.5	DAB 55 25 HL
3.5	DAB 55 35 HL
4.5	DAB 55 45 HL
5.5	DAB 55 55 HL



## Diameter Ø6.5 | Hex

G/H	Art. No.
1.5	DAB 65 15 HL
2.5	DAB 65 25 HL
3.5	DAB 65 35 HL
4.5	DAB 65 45 HL
5.5	DAB 65 55 HL



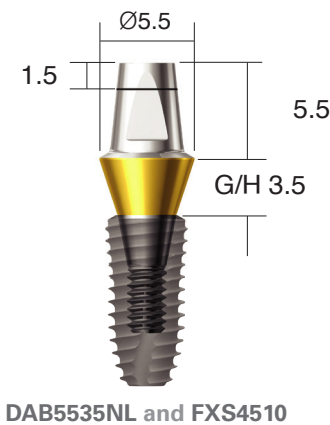
※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the dual abutment with fixture.



# Dual Abutment [Non-hex]

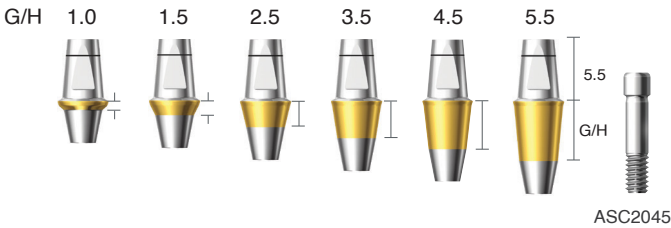
• Abutment screw is included.

Unit: mm, Scale 1 : 1.5 / mm



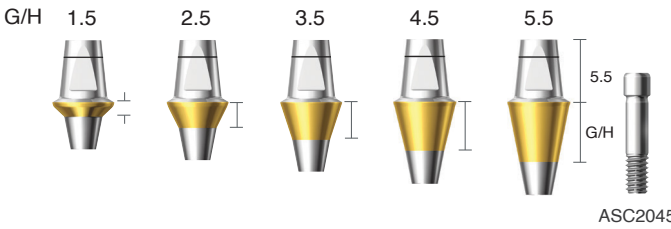
## Diameter Ø4.5 | Non-hex

G/H	Art. No.
1.0	DAB 45 <b>10</b> NL
1.5	DAB 45 <b>15</b> NL
2.5	DAB 45 <b>25</b> NL
3.5	DAB 45 <b>35</b> NL
4.5	DAB 45 <b>45</b> NL
5.5	DAB 45 <b>55</b> NL



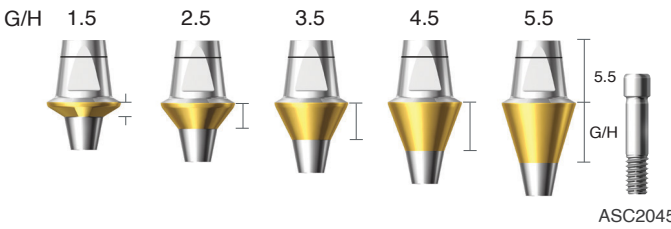
## Diameter Ø5.5 | Non-hex

G/H	Art. No.
1.5	DAB 55 <b>15</b> NL
2.5	DAB 55 <b>25</b> NL
3.5	DAB 55 <b>35</b> NL
4.5	DAB 55 <b>45</b> NL
5.5	DAB 55 <b>55</b> NL



## Diameter Ø6.5 | Non-hex

G/H	Art. No.
1.5	DAB 65 <b>15</b> NL
2.5	DAB 65 <b>25</b> NL
3.5	DAB 65 <b>35</b> NL
4.5	DAB 65 <b>45</b> NL
5.5	DAB 65 <b>55</b> NL



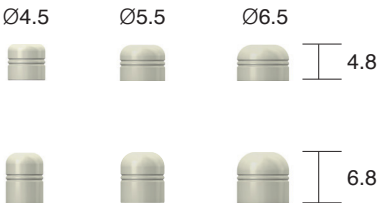
※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the dual abutment with fixture.

# Abutment Level Impression Components

Unit: mm, Scale 1 : 1 / mm

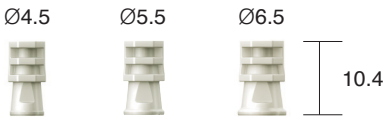
## Comfort Cap | Snap on

Type	Diameter	Art. No.
Short	Ø4.5	CCC 45 CS
	Ø5.5	CCC 55 CS
	Ø6.5	CCC 65 CS
Long	Ø4.5	CCC 45 C
	Ø5.5	CCC 55 C
	Ø6.5	CCC 65 C



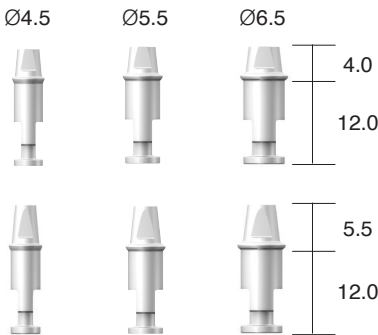
## Impression Coping

Diameter	Art. No.
Ø4.5	CIC 45 L
Ø5.5	CIC 55 L
Ø6.5	CIC 65 L



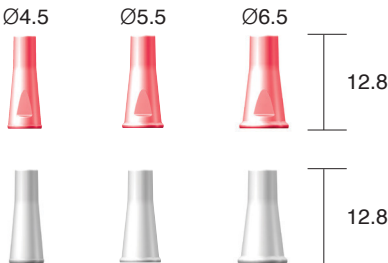
## Lab Analog

Type	Diameter	Art. No.
Short	Ø4.5	CAN 45 SL
	Ø5.5	CAN 55 SL
	Ø6.5	CAN 65 SL
Long	Ø4.5	CAN 45 LL
	Ø5.5	CAN 55 LL
	Ø6.5	CAN 65 LL



## Burn-out Cylinder

Type	Diameter	Art. No.
Single	Ø4.5	CBC 45 SL
	Ø5.5	CBC 55 SL
	Ø6.5	CBC 65 SL
Bridge	Ø4.5	CBC 45 BL
	Ø5.5	CBC 55 BL
	Ø6.5	CBC 65 BL





# Restorative Kit



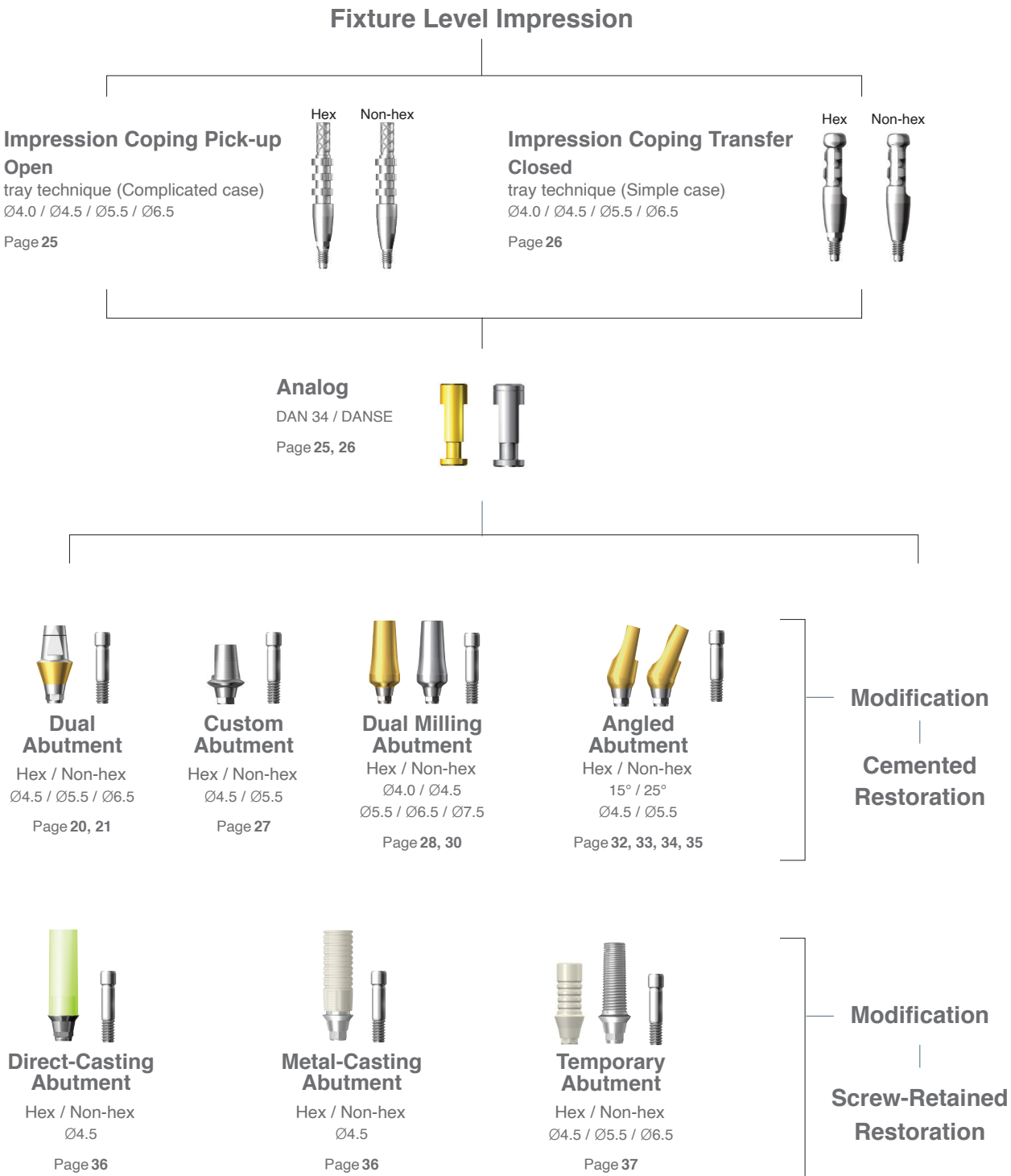
## Combi & Dual Abutment

Art. No	Lab. Components				
	Comfort Cap	Impression Copping	Analog	Burn-out Cylinder	
XSDAB45 S	CCC 45 CS	CIC 45 L	CAN 45 SL	CBC 45 SL	CBC 45 BL
XSDAB45	CCC 45 C		CAN 45 LL		
XSDAB55 S	CCC 55 CS	CIC 55 L	CAN 55 SL	CBC 55 SL	CBC 55 BL
XSDAB55	CCC 55 C		CAN 55 LL		
XSDAB65 S	CCC 65 CS	CIC 65 L	CAN 65 SL	CBC 65 SL	CBC 65 BL
XSDAB65	CCC 65 C		CAN 65 LL		

# Prosthetic Procedure 2

Impression Technique and Restoration Selection

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

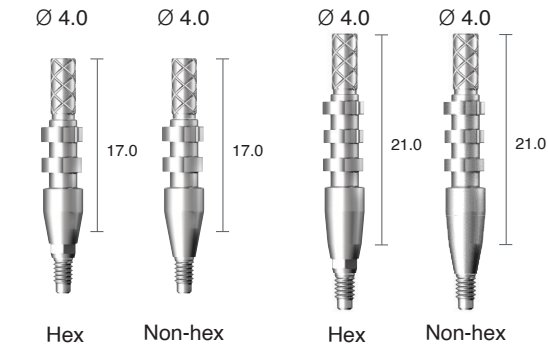


# Fixture Level Impression Components

- Impression coping screw is included with Impression coping.
  - Compatible throughout SuperLine II, SuperLine, and Implantium dental implant systems across all diameters
  - Hand tighten only
- Unit: mm, Scale 1 : 1.5 / mm

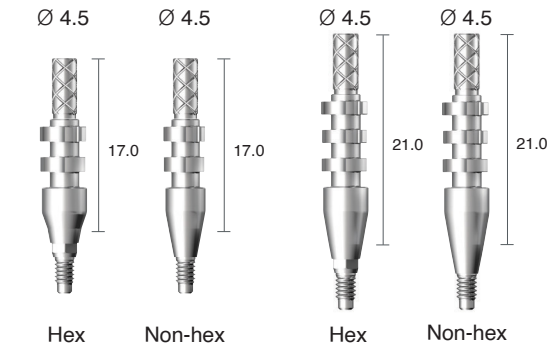
## Impression Coping Pick-up Ø4.0

Size	Type	Art. No.
Short	Hex	DPU 40 11 HL
Short	Non-hex	DPU 40 11 NL
Long	Hex	DPU 40 15 HL
Long	Non-hex	DPU 40 15 NL



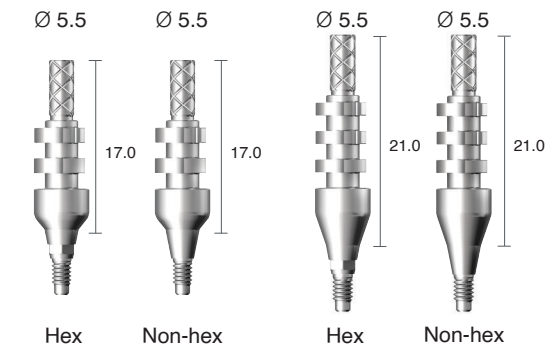
## Impression Coping Pick-up Ø4.5

Size	Type	Art. No.
Short	Hex	DPU 45 11 HL
Short	Non-hex	DPU 45 11 NL
Long	Hex	DPU 45 15 HL
Long	Non-hex	DPU 45 15 NL



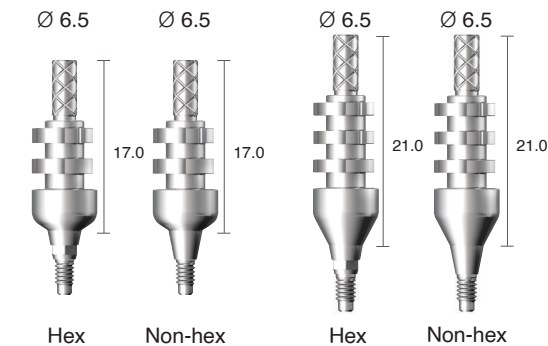
## Impression Coping Pick-up Ø5.5

Size	Type	Art. No.
Short	Hex	DPU 55 11 HL
Short	Non-hex	DPU 55 11 NL
Long	Hex	DPU 55 15 HL
Long	Non-hex	DPU 55 15 NL



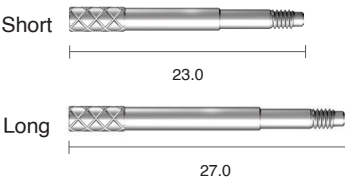
## Impression Coping Pick-up Ø6.5

Size	Type	Art. No.
Short	Hex	DPU 65 11 HL
Short	Non-hex	DPU 65 11 NL
Long	Hex	DPU 65 15 HL
Long	Non-hex	DPU 65 15 NL



## Impression Coping Pick-up Screw

Size	Art. No.
Short	DPS 11
Long	DPS 15



## Analogue

Application (BodyØ)	Art. No.
Ø3.6	DAN 34
Ø4.0 / Ø4.5 / Ø5.0 / Ø6.0 / Ø7.0	DANSE



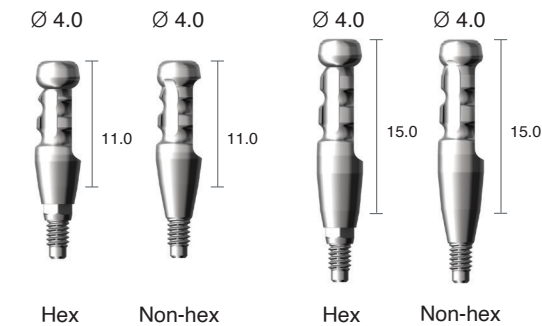


# Fixture Level Impression Components

- Impression coping screw is included with Impression coping.
  - Compatible throughout SuperLine II, SuperLine, and Implantium dental implant systems across all diameters
  - Hand tighten only
- Unit: mm, Scale 1 : 1.5 / mm

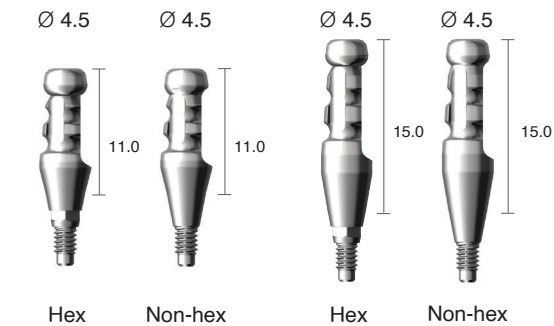
## Impression Coping Transfer Ø4.0

Size	Type	Art. No.
Short	Hex	DTF40 11 HL
Short	Non-hex	DTF40 11 NL
Long	Hex	DTF40 15 HL
Long	Non-hex	DTF40 15 NL



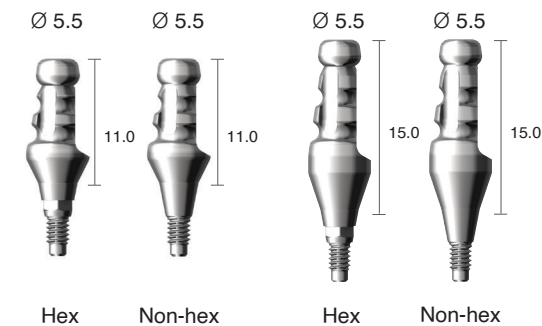
## Impression Coping Transfer Ø4.5

Size	Type	Art. No.
Short	Hex	DTF45 11 HL
Short	Non-hex	DTF45 11 NL
Long	Hex	DTF45 15 HL
Long	Non-hex	DTF45 15 NL



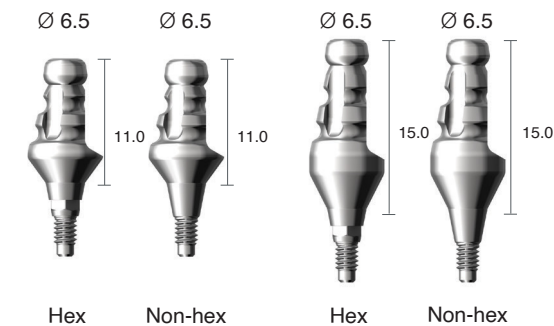
## Impression Coping Transfer Ø5.5

Size	Type	Art. No.
Short	Hex	DTF55 11 HL
Short	Non-hex	DTF55 11 NL
Long	Hex	DTF55 15 HL
Long	Non-hex	DTF55 15 NL



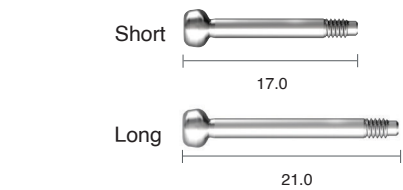
## Impression Coping Transfer Ø6.5

Size	Type	Art. No.
Short	Hex	DTF65 11 HL
Short	Non-hex	DTF65 11 NL
Long	Hex	DTF65 15 HL
Long	Non-hex	DTF65 15 NL



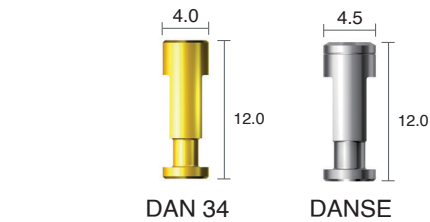
## Impression Coping Transfer Screw

Size	Art. No.
Short	DTS 11
Long	DTS 15



## Analogue

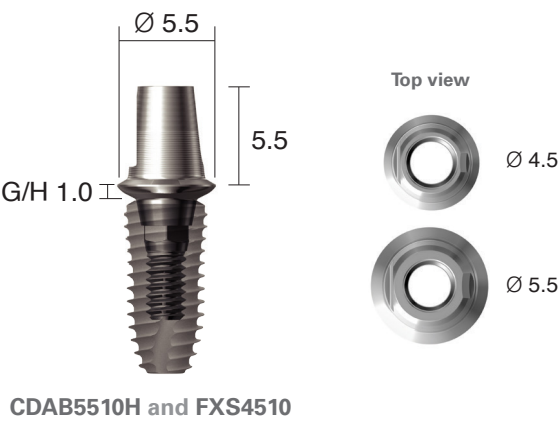
Application (BodyØ)	Art. No.
Ø3.6	DAN 34
Ø4.0 / Ø4.5 / Ø5.0 / Ø6.0 / Ø7.0	DANSE



# Custom Abutment

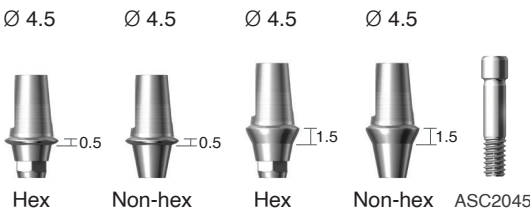
• Abutment screw is included.

Unit: mm, Scale 1 : 1.5 / mm



## Diameter Ø4.5

G/H	Type	Art. No.
0.5	Hex	CDAB 45 05 H
0.5	Non-hex	CDAB 45 05 N
1.5	Hex	CDAB 45 15 H
1.5	Non-hex	CDAB 45 15 N



## Diameter Ø5.5

G/H	Type	Art. No.
1.0	Hex	CDAB 55 10 H
1.0	Non-hex	CDAB 55 10 N
2.0	Hex	CDAB 55 20 H
2.0	Non-hex	CDAB 55 20 N

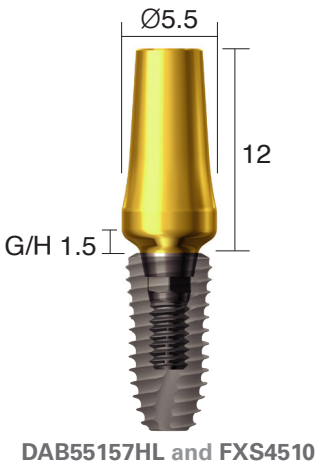


- Abutment screw included
- Compatible throughout all Dentium SuperLine II, SuperLine, and Implantium dental implant systems across all diameters
- **NOTE:** Recommended tightening torque for the Custom Abutment is 30–35 Ncm. Retighten with the same torque after 15 minutes to verify the maximum screw tension.

# Dual Milling Abutment [Ti-G4]

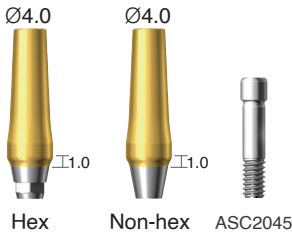
• Abutment screw is included.

Unit:mm, Scale 1: 1.5 / mm



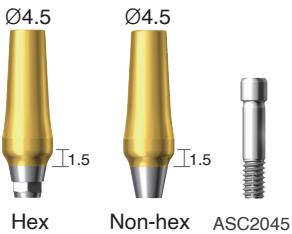
Diameter Ø4.0

G/H	Type	Art. No.
1.0	Hex	DAB 40 105 HL
1.0	Non-hex	DAB 40 105 NL



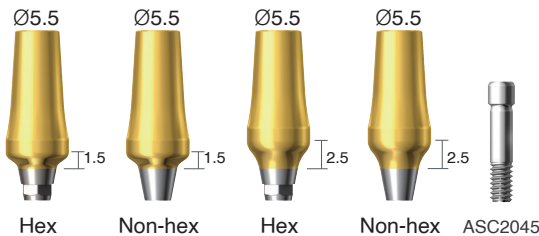
Diameter Ø4.5

G/H	Type	Art. No.
1.5	Hex	DAB 45 156 HL
1.5	Non-hex	DAB 45 156 NL



Diameter Ø5.5

G/H	Type	Art. No.
1.5	Hex	DAB 55 157 HL
1.5	Non-hex	DAB 55 157 NL
2.5	Hex	DAB 55 257 HL
2.5	Non-hex	DAB 55 257 NL



※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the dual milling abutment with fixture.



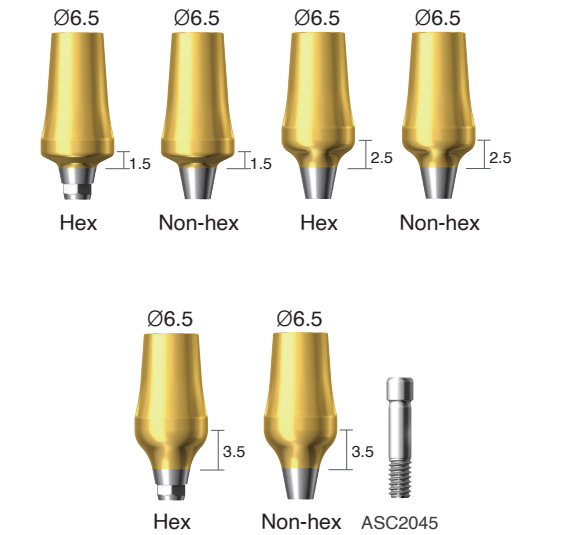
# Dual Milling Abutment [Ti-G4]

• Abutment screw is included.

Unit:mm, Scale 1: 1.5 / mm

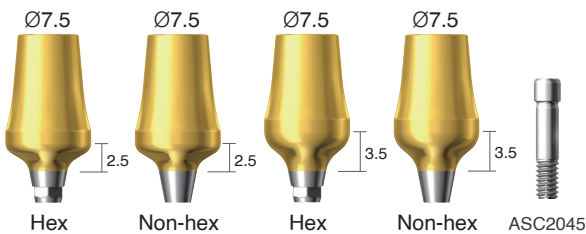
## Diameter Ø6.5

G/H	Type	Art. No.
1.5	Hex	DAB 65 158 HL
1.5	Non-hex	DAB 65 158 NL
2.5	Hex	DAB 65 258 HL
2.5	Non-hex	DAB 65 258 NL
3.5	Hex	DAB 65 358 HL
3.5	Non-hex	DAB 65 358 NL



## Diameter Ø7.5

G/H	Type	Art. No.
2.5	Hex	DAB 75 259 HL
2.5	Non-hex	DAB 75 259 NL
3.5	Hex	DAB 75 359 HL
3.5	Non-hex	DAB 75 359 NL

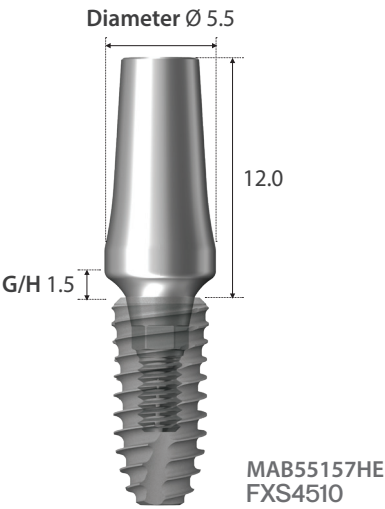


※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the dual milling abutment with fixture.

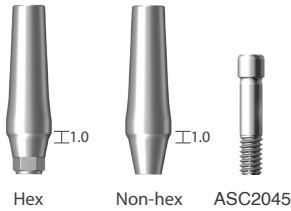
# Milling Abutment

Unit: mm, Scale 1.5 : 1

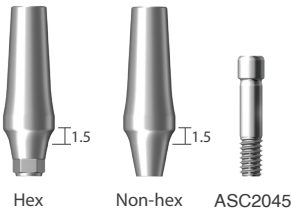
\* Abutment screw is included.



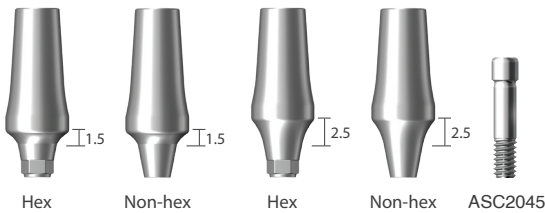
Diameter	G/H	Type	Art. No.
Ø 4.0	1.0	Hex	MAB 40 105 HE
	1.0	Non-hex	MAB 40 105 NE



Diameter	G/H	Type	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



※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.

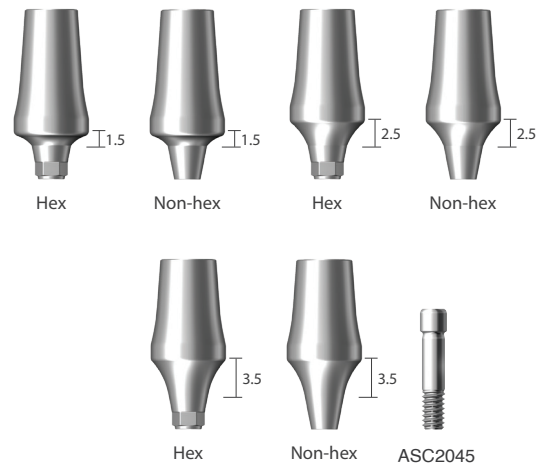
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the dual milling abutment with fixture.

# Milling Abutment

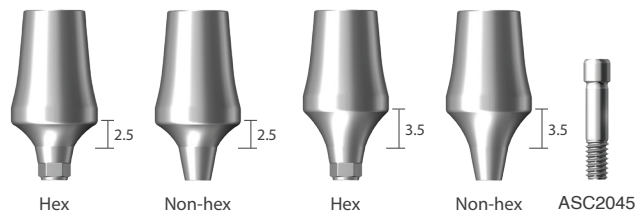
~ Abutment screw is included.

Unit: mm, Scale 1.5 : 1

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



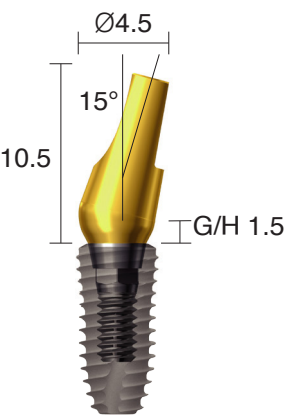
※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the dual milling abutment with fixture.



# Angled Abutment [Ti-G4 / 15°]

• Abutment screw is included.

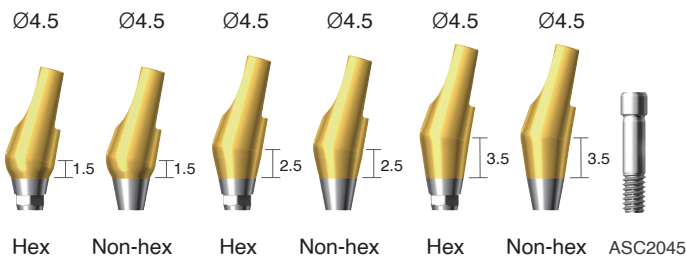
Unit: mm, Scale 1 : 1.5 / mm



AAB154515HL and FXS4510

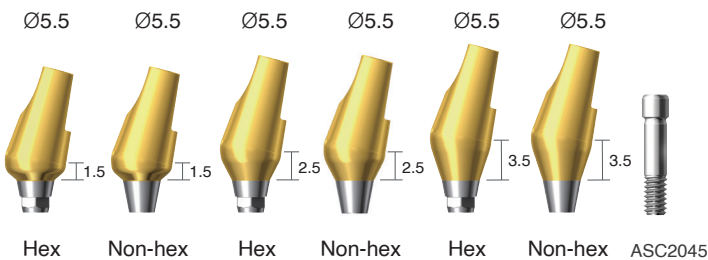
Diameter Ø4.5 | Angled 15°

G/H	Type	Art. No.
1.5	Hex	AAB 15 45 15 HL
1.5	Non-hex	AAB 15 45 15 NL
2.5	Hex	AAB 15 45 25 HL
2.5	Non-hex	AAB 15 45 25 NL
3.5	Hex	AAB 15 45 35 HL
3.5	Non-hex	AAB 15 45 35 NL



Diameter Ø5.5 | Angled 15°

G/H	Type	Art. No.
1.5	Hex	AAB 15 55 15 HL
1.5	Non-hex	AAB 15 55 15 NL
2.5	Hex	AAB 15 55 25 HL
2.5	Non-hex	AAB 15 55 25 NL
3.5	Hex	AAB 15 55 35 HL
3.5	Non-hex	AAB 15 55 35 NL

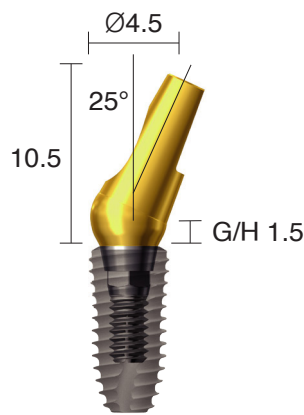


※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the angled abutment with fixture.

# Angled Abutment [Ti-G4 / 25°]

• Abutment screw is included.

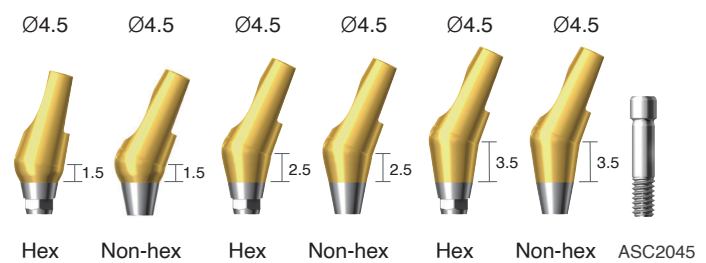
Unit: mm, Scale 1 : 1.5 / mm



AAB254515HL and FXS4510

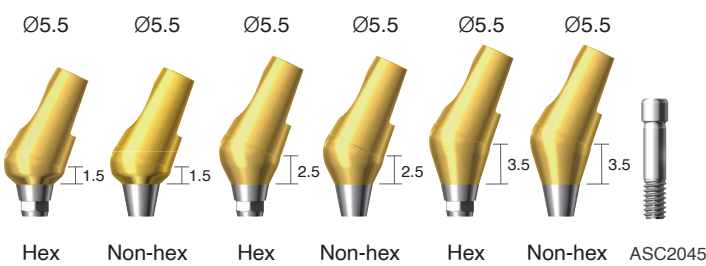
Diameter Ø4.5 | Angled 25°

G/H	Type	Art. No.
1.5	Hex	AAB 25 45 15 HL
1.5	Non-hex	AAB 25 45 15 NL
2.5	Hex	AAB 25 45 25 HL
2.5	Non-hex	AAB 25 45 25 NL
3.5	Hex	AAB 25 45 35 HL
3.5	Non-hex	AAB 25 45 35 NL



Diameter Ø5.5 | Angled 25°

G/H	Type	Art. No.
1.5	Hex	AAB 25 55 15 HL
1.5	Non-hex	AAB 25 55 15 NL
2.5	Hex	AAB 25 55 25 HL
2.5	Non-hex	AAB 25 55 25 NL
3.5	Hex	AAB 25 55 35 HL
3.5	Non-hex	AAB 25 55 35 NL

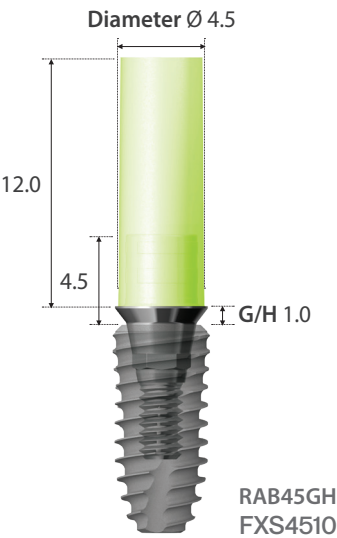


※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the angled abutment with fixture.

# Direct-Casting Abutment

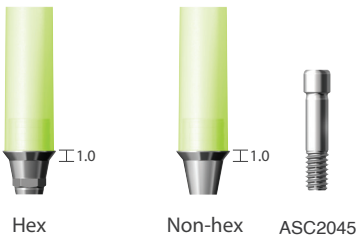
• Abutment screw is included.

Unit: mm, Scale 1.5 : 1



Gold

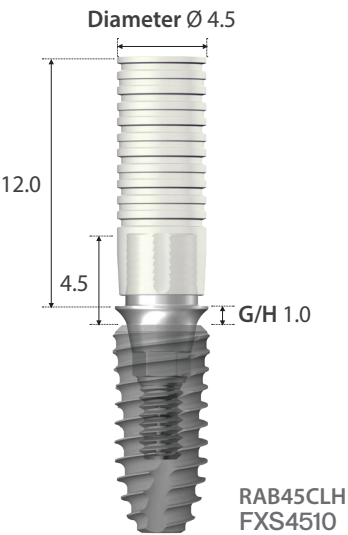
Diameter	G/H	Type	Art. No.
Ø 4.5	1.0	Hex	RAB 45 GH
		Non-hex	RAB 45 GN



# Metal-Casting Abutment

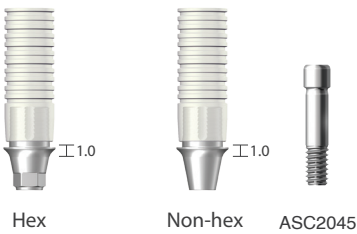
• Abutment screw is included.

Unit: mm, Scale 1.5 : 1



Co-Cr

Diameter	G/H	Type	Art. No.
Ø 4.5	1.0	Hex	RAB 45 CLH
		Non-hex	RAB 45 CLN



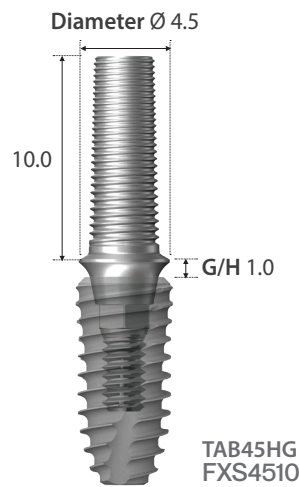
※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the direct-casting / metal-casing abutment with fixture.



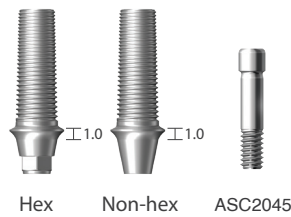
# Ti-Temporary Abutment

Unit: mm, Scale 1.5 : 1

• Abutment screw is included.



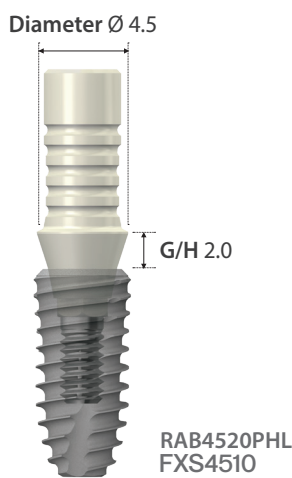
Diameter	G/H	Type	Art. No.
Ø 4.5	1.0	Hex	TAB 45 HG
		Non-hex	TAB 45 NG
	2.0	Hex	TAB 4520 HG
		Non-hex	TAB 4520 NG
	3.0	Hex	TAB 4530 HG
		Non-hex	TAB 4530 NG



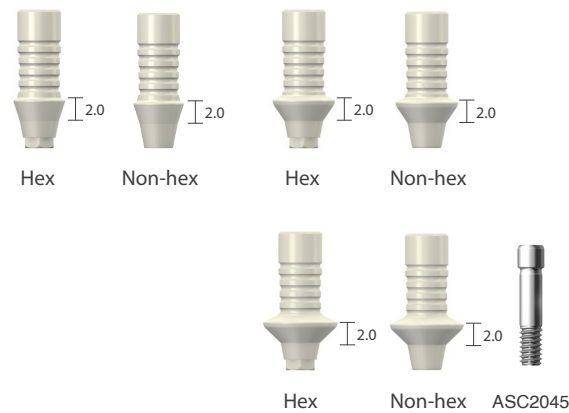
# Plastic Temporary Abutment

Unit: mm, Scale 1.5 : 1

• Abutment screw is included.



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

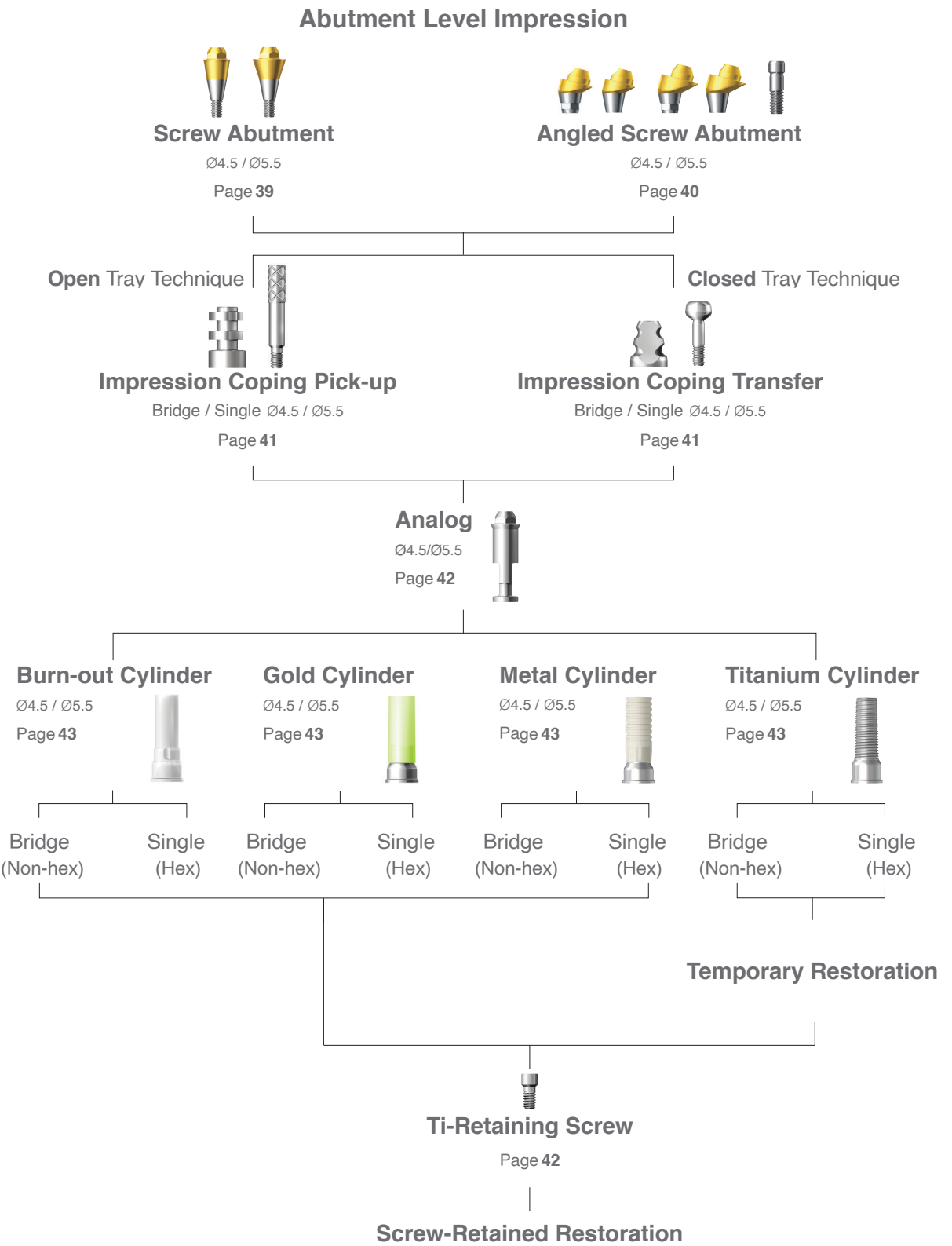


※ Note: 1) If the Implantium II fixture with size of Ø3.4 body is used, abutment height after assembly will become 0.5mm longer than other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the temporary abutment with fixture.

# Prosthetic Procedure 3

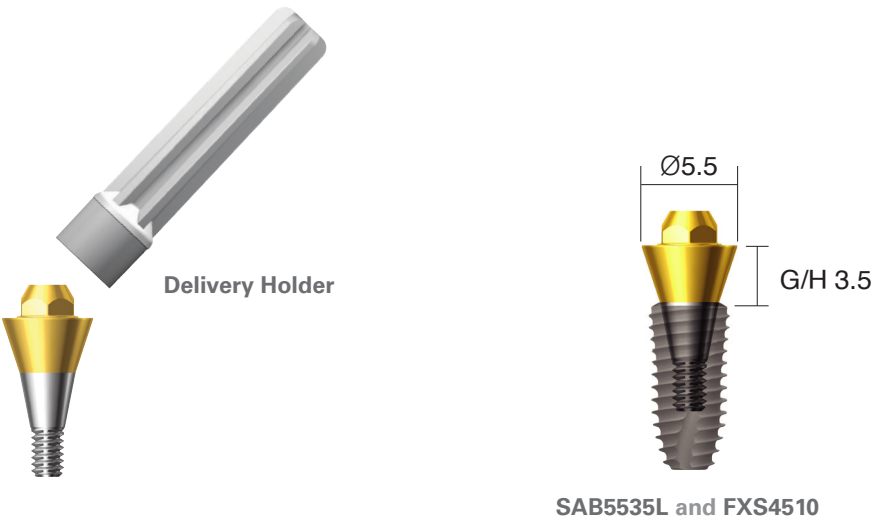
Impression Technique and Restoration Selection

## Screw Abutment



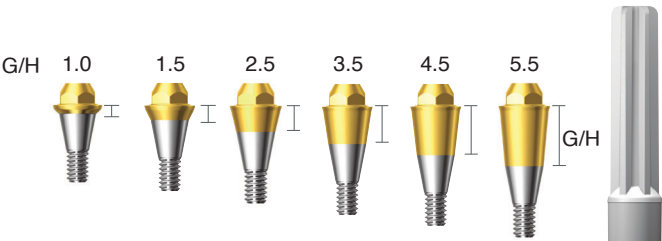
# Screw Abutment

Unit: mm, Scale 1 : 1.5 / mm



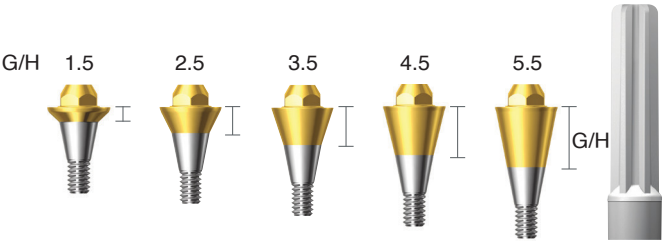
## Diameter Ø4.5

G/H	Art. No.
1.0	SAB45 10 L
1.5	SAB45 15 L
2.5	SAB45 25 L
3.5	SAB45 35 L
4.5	SAB45 45 L
5.5	SAB45 55 L



## Diameter Ø5.5

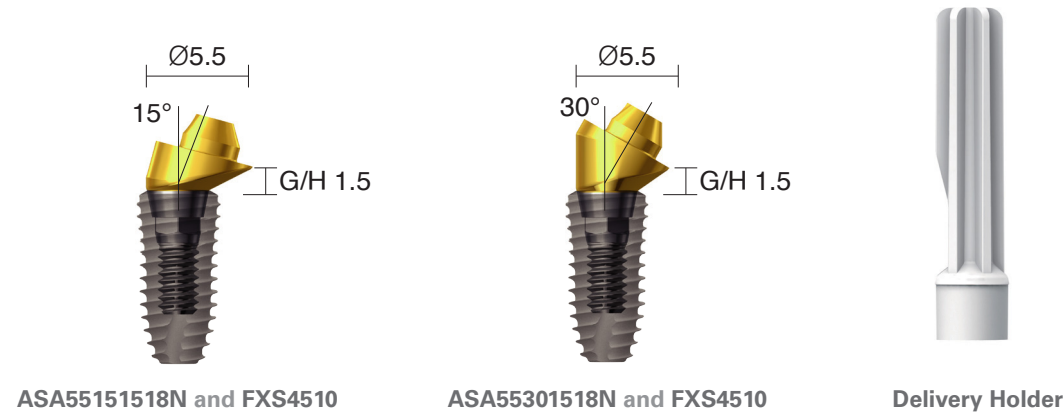
G/H	Art. No.
1.5	SAB55 15 L
2.5	SAB55 25 L
3.5	SAB55 35 L
4.5	SAB55 45 L
5.5	SAB55 55 L



※ Note: 1) The Implantium II fixture with size of Ø3.4 body is not recommended to use with the screw abutment. Should they be used together, abutment height after assembly will become 0.5mm longer than the other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the screw abutment with fixture.

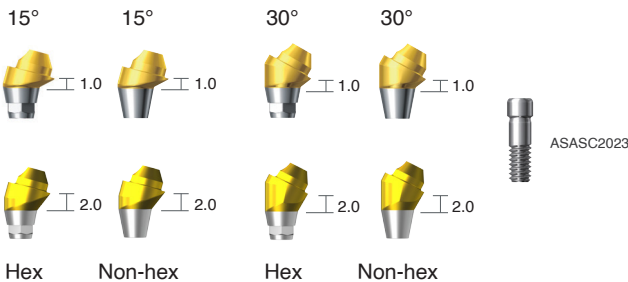
# Angled Screw Abutment

Unit: mm, Scale 1 : 1.5 / mm



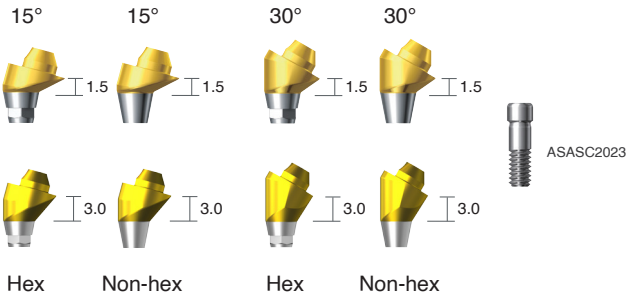
## Angled Screw Abutment Ø4.5

G/H	Type	Art. No.
1.0	Hex	ASA 45 15 10 18 H
1.0	Non-hex	ASA 45 15 10 18 N
1.0	Hex	ASA 45 30 10 18 H
1.0	Non-hex	ASA 45 30 10 18 N
2.0	Hex	ASA 45 15 20 18 H
2.0	Non-hex	ASA 45 15 20 18 N
2.0	Hex	ASA 45 30 20 18 H
2.0	Non-hex	ASA 45 30 20 18 N



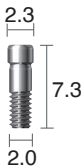
## Angled Screw Abutment Ø5.5

G/H	Type	Art. No.
1.5	Hex	ASA 55 15 15 18 H
1.5	Non-hex	ASA 55 15 15 18 N
1.5	Hex	ASA 55 30 15 18 H
1.5	Non-hex	ASA 55 30 15 18 N
3.0	Hex	ASA 55 15 30 18 H
3.0	Non-hex	ASA 55 15 30 18 N
3.0	Hex	ASA 55 30 30 18 H
3.0	Non-hex	ASA 55 30 30 18 N



## Angled Screw Abutment Screw

ASASC 20 23
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※ Note: 1) The Implantium II fixture with size of Ø3.4 body is not recommended to use with the screw abutment. Should they be used together, abutment height after assembly will become 0.5mm longer than the other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the screw abutment with fixture.

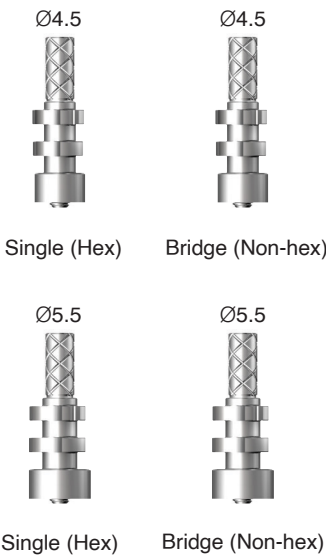


# Screw Abutment Impression Components

Unit: mm, Scale 1 : 1.5 / mm

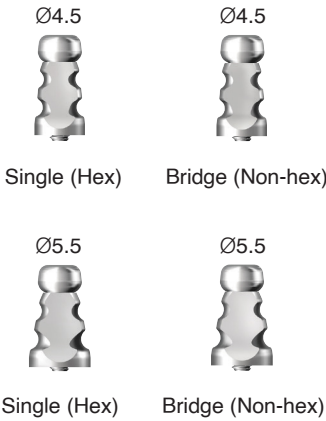
## Impression Coping Pick-up

Diameter	Type		Art. No.
Ø4.5	Single	Hex	SPU 45 SL
Ø4.5	Bridge	Non-hex	SPU 45 BL
Ø5.5	Single	Hex	SPU 55 SL
Ø5.5	Bridge	Non-hex	SPU 55 BL



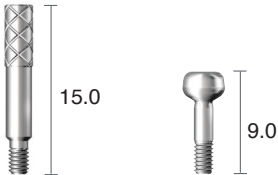
## Impression Coping Transfer

Diameter	Type		Art. No.
Ø4.5	Single	Hex	STF 45 SL
Ø4.5	Bridge	Non-hex	STF 45 BL
Ø5.5	Single	Hex	STF 55 SL
Ø5.5	Bridge	Non-hex	STF 55 BL



## Impression Coping Screw

Type	Art. No.
Pick-up	SPS 09
Transfer	STS 09



# Screw Abutment Impression Components

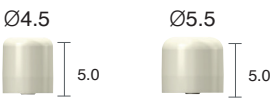
Unit: mm, Scale 1 : 1.5 / mm

## Comfort Cap - Single

Diameter	Art. No.
Ø4.5	SCC 45 L (1)
Ø5.5	SCC 55 L (1)

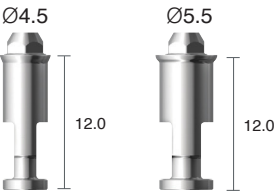
## Comfort Cap - Pack

Diameter	Art. No.
Ø4.5	SCC 45 L (5)
Ø5.5	SCC 55 L (5)



## Analog

Diameter	Art. No.
Ø4.5	SAN 45 L
Ø5.5	SAN 55 L



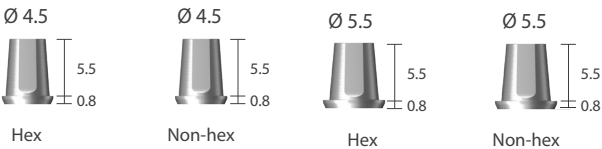
## Ti-Retaining Screw

SRS 18 T
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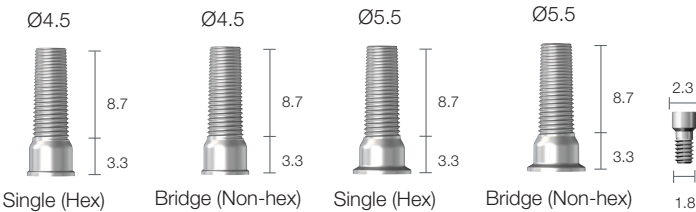
## Ti-Cylinder

Diameter	Type	Art. No.
Ø 4.5	Hex	STA 45 S
	Non-hex	STA 45 B
Ø 5.5	Hex	STA 55 S
	Non-hex	STA 55 B



## Ti-Cylinder

Diameter	Type		Art. No.
Ø4.5	Single	Hex	STC 45 SG
Ø4.5	Bridge	Non-hex	STC 45 BG
Ø5.5	Single	Hex	STC 55 SG
Ø5.5	Bridge	Non-hex	STC 55 BG

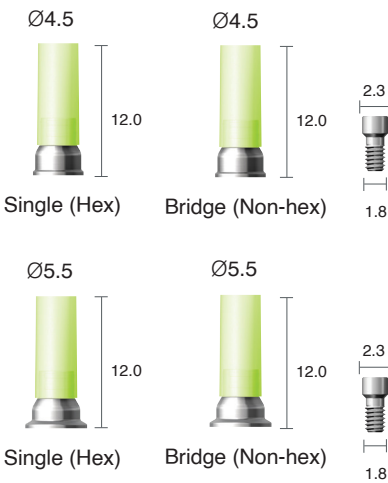


# Screw Abutment Impression Components

Unit: mm, Scale 1 : 1.5 / mm

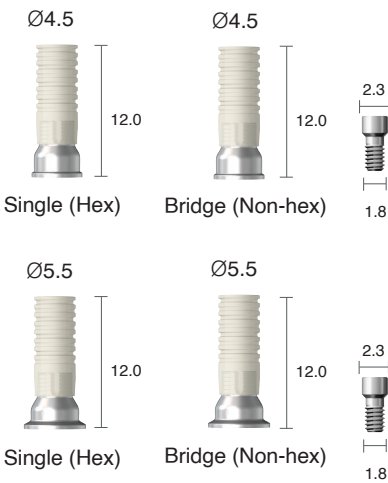
## Gold Cylinder

Diameter	Type		Art. No.
Ø4.5	Single	Hex	SGC 45 SL
Ø4.5	Bridge	Non-hex	SGC 45 BL
Ø5.5	Single	Hex	SGC 55 SL
Ø5.5	Bridge	Non-hex	SGC 55 BL



## Metal Cylinder | Co-Cr

Diameter	Type		Art. No.
Ø4.5	Single	Hex	SGC 45 CSL
Ø4.5	Bridge	Non-hex	SGC 45 CBL
Ø5.5	Single	Hex	SGC 55 CSL
Ø5.5	Bridge	Non-hex	SGC 55 CBL

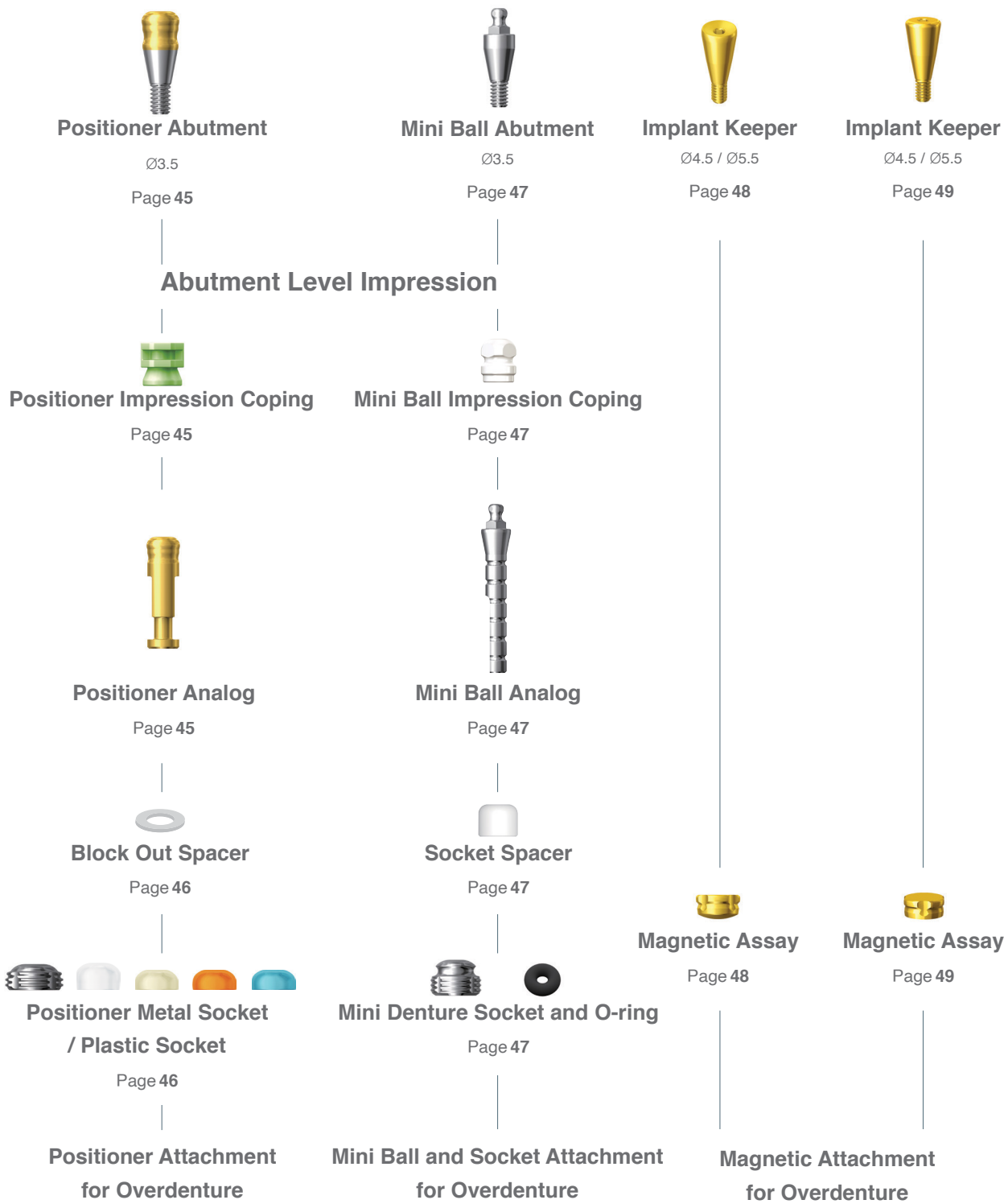


# Prosthetic Procedure 4

Impression Technique and Restoration Type

## Overdenture Procedure

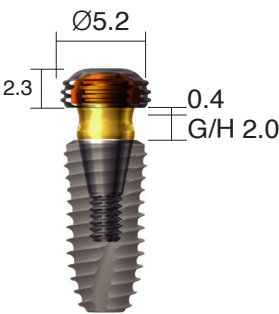
### Positioner / Mini Ball / Magnetic Attachment





# Positioner

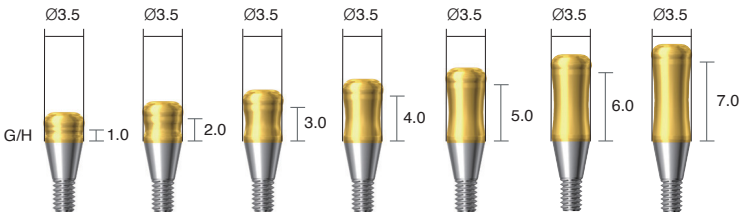
Unit: mm, Scale 1 : 1.5 / mm



FSMH and PAB3520 and FXS4510

## Positioner Abutment

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



## Positioner Impression Coping

PIC
-----



## Positioner Analog

PAN
-----



※ Note: 1) The Implantium II fixture with size of Ø3.4 body is not recommended to use with the positioner abutment. Should they be used together, abutment height after assembly will become 0.5mm longer than the other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the ball abutment with fixture.

# Positioner

Unit: mm, Scale 1 : 1.5 / mm

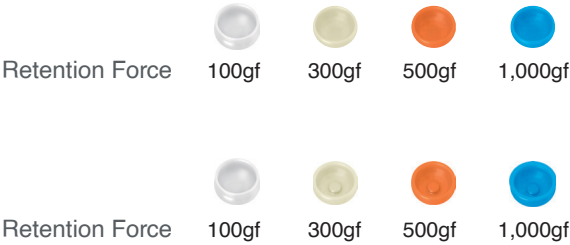
## Positioner Metal Socket

Art. No.	FSMH
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## Positioner Plastic Socket

Application	Art. No.
Tilting Type ±10°	MSHP (Blue)
	MSMP (Orange)
	MSLP (Ivory)
	MSOP (White)
Non Tilting Type ±5°	MSHPN (Blue)
	MSMPN (Orange)
	MSLPN (Ivory)
	MSOP (White)

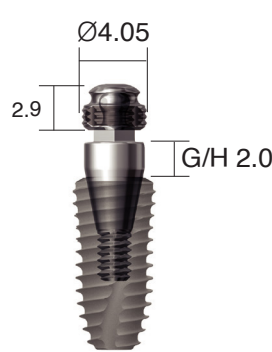


## Positioner Block Out Spacer

Art. No.	PBOS
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# Mini Ball Attachment

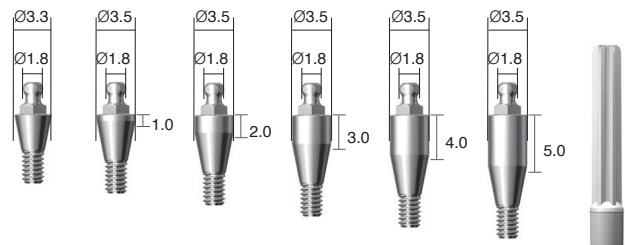


Unit: mm, Scale 1 : 1.5 / mm

BPF3 and BAB352018 and FXS4510

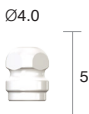
## Mini Ball Abutment

G/H	Art. No.
0	BAB 35 0018
1.0	BAB 35 1018
2.0	BAB 35 2018
3.0	BAB 35 3018
4.0	BAB 35 4018
5.0	BAB 35 5018



## Mini Ball Impression Coping

GICA
------



## Mini Ball Analog

BANL
------



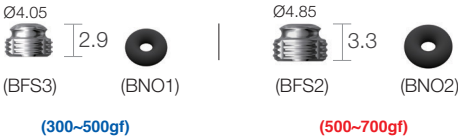
## Socket Spacer

Art. No.	GBIC3L GBIC2L
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## Female Socket

Art. No.	BPF3 (300~500gf) BPF2 (500~700gf)
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## Ball Socket O-ring

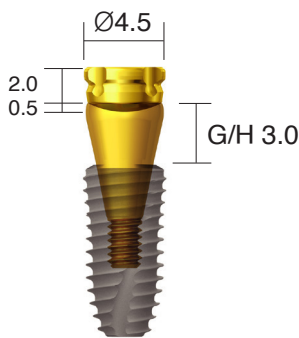
Art. No.	BNO1 BNO2
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※ Note: 1) The Implantium II fixture with size of Ø3.4 body is not recommended to use with the ball abutment. Should they used together, abutment height after assembly will become 0.5mm longer than the other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the ball abutment with fixture.

# Magnetic Attachment [Dome Type]

Unit: mm, Scale 1 : 1.5 / mm



MGT4520D and MKP4530D and FXS4510

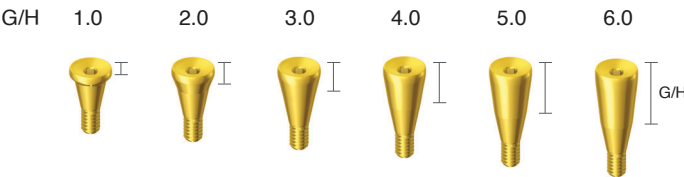
## Magnetic Assay

Application	Diameter	H	Art. No.
MKP45D	Ø4.5	2.0	MGT 45 20 D
MKP55D	Ø5.5	2.0	MGT 55 20 D



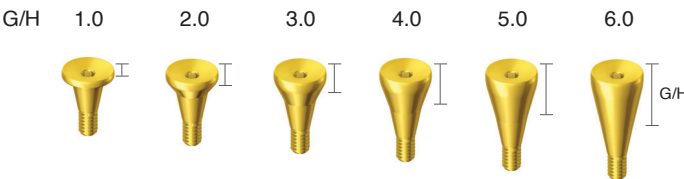
## Implant Keeper Diameter Ø4.5

G/H	Art. No.
1.0	MKP 45 10 D
2.0	MKP 45 20 D
3.0	MKP 45 30 D
4.0	MKP 45 40 D
5.0	MKP 45 50 D
6.0	MKP 45 60 D



## Implant Keeper Diameter Ø5.5

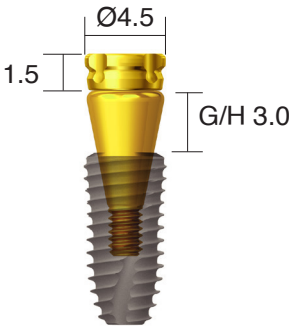
G/H	Art. No.
1.0	MKP 55 10 D
2.0	MKP 55 20 D
3.0	MKP 55 30 D
4.0	MKP 55 40 D
5.0	MKP 55 50 D
6.0	MKP 55 60 D



※ Note: 1) The Implantium II fixture with size of Ø3.4 body is not recommended to use with the magnetic abutment. Should they be used together, abutment height after assembly will become 0.5mm longer than the other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the magnetic abutment with fixture.

# Magnetic Attachment [Flat Type]

Unit: mm, Scale 1 : 1.5 / mm



MGT4515 and MKP4530 and FXS4510

## Magnetic Assay

Application	Diameter	H	Art. No.
MKP45	Ø4.5	1.5	MGT 45 15
MKP45	Ø4.5	2.0	MGT 45 20
MKP55	Ø5.5	1.5	MGT 55 15
MKP55	Ø5.5	2.0	MGT 55 20

Ø4.5

1.5

Retention Force 400gf

Ø4.5

2.0

Retention Force 450gf

Ø5.5

1.5

Retention Force 700gf

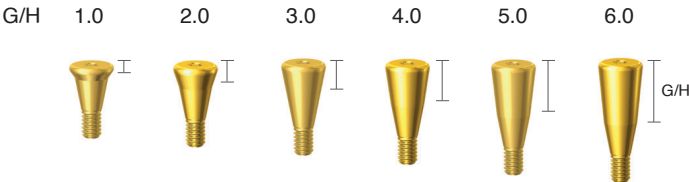
Ø5.5

2.0

Retention Force 750gf

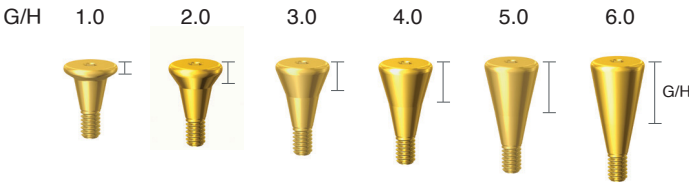
## Implant Keeper Diameter Ø4.5

G/H	Art. No.
1.0	MKP 45 10
2.0	MKP 45 20
3.0	MKP 45 30
4.0	MKP 45 40
5.0	MKP 45 50
6.0	MKP 45 60



## Implant Keeper Diameter Ø5.5

G/H	Art. No.
1.0	MKP 55 10
2.0	MKP 55 20
3.0	MKP 55 30
4.0	MKP 55 40
5.0	MKP 55 50
6.0	MKP 55 60



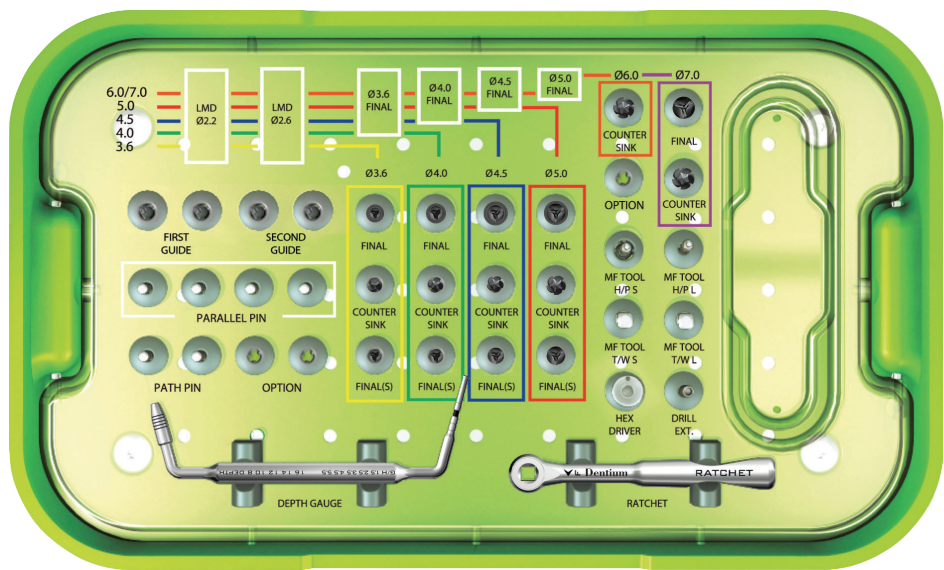
※ Note: 1) The Implantium II fixture with size of Ø3.4 body is not recommended to use with the magnetic abutment. Should they be used together, abutment height after assembly will become 0.5mm longer than the other sized fixtures.  
2) It is recommended to keep the torque level at 25~30 N·cm to tighten the magnetic abutment with fixture.





***Super*** Lr̄ne II

# Surgical Kit [Full]



SuperLine Surgical Full Kit

UXNF

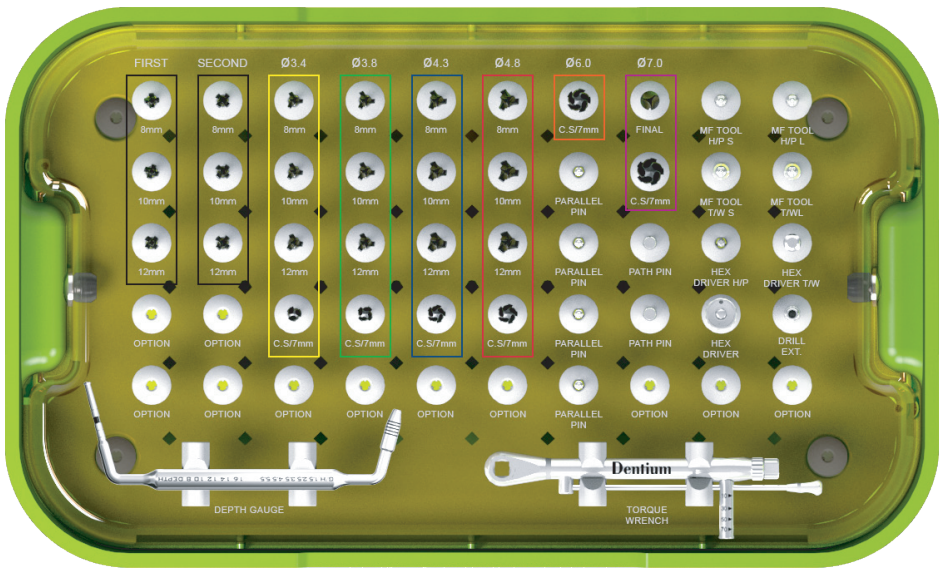
Kit Includes

<b>First Guide Drill</b>	<b>Second Guide Drill</b>	<b>Final Drill</b>		<b>Hand-piece Adapter</b>	
XLD2229	XLD2235 (Stopper)	XLD2629	XLD2635 (Stopper)	XFD3435	XFD3835
<b>Parallel Pin</b>		<b>Countersink</b>		<b>Ratchet Adapter</b>	
XPP162220 T		XCS3629SW		XFA27H	
<b>MF Path Pin</b>		<b>Final Drill(s)</b>		<b>Hex Driver</b>	
XMFPA2		XFD3429		XFA32H	
		XFD3829		XFA26W	
		XFD4329		XFA32W	
		XFD4829		XFD5831	
				XFA27H	
				XFA32H	
				XFA26W	
				XFA32W	
				XFD26T	
				XDE	
<b>Depth Gauge</b>		<b>Ratchet</b>			
XDGL		XRCA1			

2) It is recommended to keep the torque level at 25~30 N·cm to tighten the magnetic abutment with fixture.



# Surgical Kit [Stopper Drill Full]



## Stopper Drill Full Kit

UXSF

### Kit Includes






















First Guide Drill	Second Guide Drill	Final Drill				Hand-piece Adapter			
 XLD2208S	 XLD2608S	 XFD3408S	 XFD3808S	 XFD4308S	 XFD4808S	 XFD5831	 XFA27H	 XFA32H	
 XLD2210S	 XLD2610S	 XFD3410S	 XFD3810S	 XFD4310S	 XFD4810S		 XFA26W	 XFA32W	
 XLD2212S	 XLD2612S	 XFD3412S	 XFC3812S	 XFD4312S	 XFD4812S		 XHD26T	 XDE	
 XPP162220T		 XFC3607	 XFC4007	 XFC4507	 XFC5007	 XFC6007	 XFC7007	 XHD25H	 XHD25W
 XMFA2									
 XDGL		 XNTW							

# Surgical Kit [Standard]

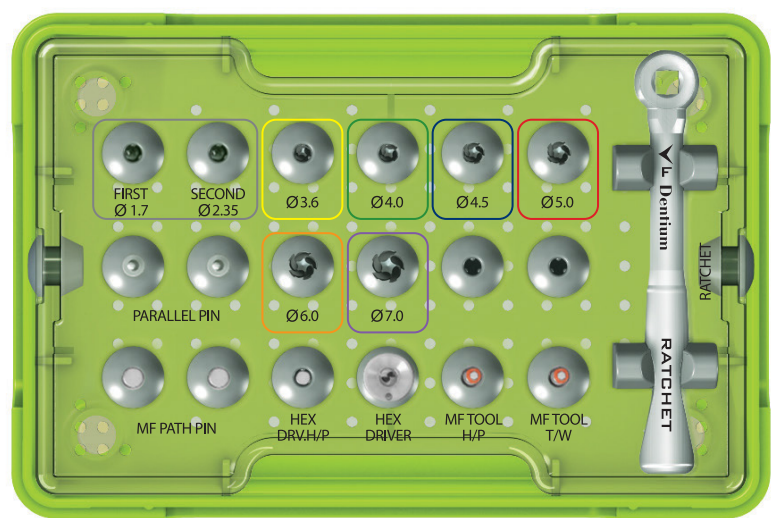


## UXIFN

### Kit Contents
















• First guide drill		XLD 22 31	• Parallel pin		XPP 162220 T
• Second guide drill		XLD 26 31			XPP 162226 T
• Final drill		XFD 34 31	• Hand-piece adapter		XID 30 H
		XFD 38 31	• Ratchet adapter		XID 26 W
		XFD 43 31	• MF path pin x2		XMFP A2
		XFD 48 31	• Hex driver		XHD 26 T
		XFD 58 31			XHD 25 H
• Countersink		XCS 36 29 SW	• Drill extension		XDE
		XCS 40 29 SW	• Ratchet		XRCA1
		XCS 45 29 SW			
		XCS 50 29 SW			
		XCS 60 29 SW			
		XCS 70 29 SW			

# Surgical Kit [Short Implant]



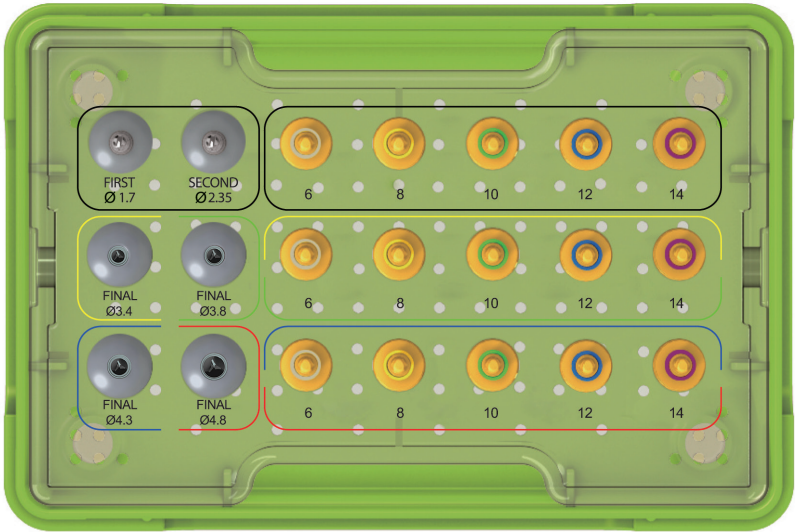
XSIK

## Kit Contents

• First guide drill		XLD22 07	• Parallel pin x 2		XPP 162212
• Second guide drill		XLD26 07	• Hand-piece adapter		XID27 H
• Final drill		XFC36 07	• Ratchet adapter		XID26 W
		XFC40 07	• MF path pin x2		XMFPA2
		XFC45 07	• Hex driver		XHD26 T
		XFC50 07			XHD25 H
		XFC60 07			
		XFC70 07	• Ratchet		XRCA1



# Drill Stopper Kit



XDS

## Kit Contents

- Guide drill stopper / First, Second

 XLD 22 35

 XLD 26 35

- Final drill stopper / 34, 38

 XFD 34 35

 XFD 38 35

- Final drill stopper / 43, 48

 XFD 43 35

 XFD 48 35



- Stopper-first guide drill, second guide drill

XLDST 14   XLDST 12   XLDST 10   XLDST 08   XLDST 06



- Stopper-final drill / 34, 38

XFDST 14   XFDST 12   XFDST 10   XFDST 08   XFDST 06



- Stopper-final drill / 43, 48

XFDST 14L   XFDST 12L   XFDST 10L   XFDST 08L   XFDST 06L



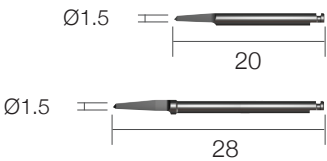
# Drill



Unit: mm, Scale 1 : 1 / mm

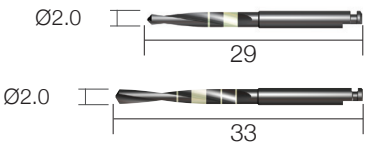
## Guide Drill

Diameter	L	Art. No.
Ø1.5	20	XGD 15 <b>20</b>
Ø1.5	28	XGD 15 <b>28</b>



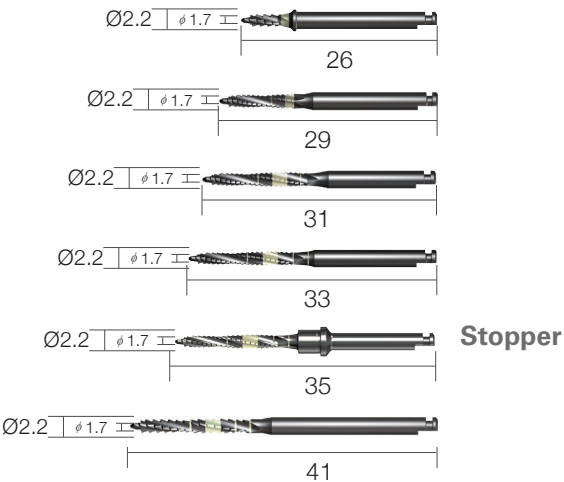
## First Drill

Diameter	L	Art. No.
Ø2.0	29	XFD 20 <b>29</b>
Ø2.0	33	XFD 20 <b>33</b>



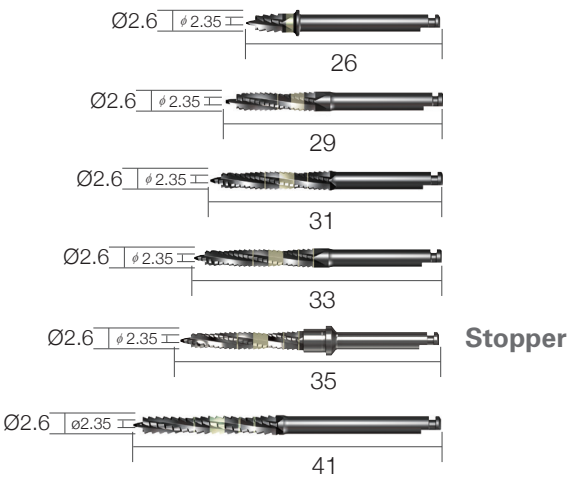
## First Guide Drill

Diameter	L	Art. No.
Ø2.2	26	XLD 22 <b>07</b>
Ø2.2	29	XLD 22 <b>29</b>
Ø2.2	31	XLD 22 <b>31</b>
Ø2.2	33	XLD 22 <b>33</b>
Ø2.2	35	XLD 22 <b>35</b>
Ø2.2	41	XLD 22 <b>41</b>



## Second Guide Drill

Diameter	L	Art. No.
Ø2.6	26	XLD 26 <b>07</b>
Ø2.6	29	XLD 26 <b>29</b>
Ø2.6	31	XLD 26 <b>31</b>
Ø2.6	33	XLD 26 <b>33</b>
Ø2.6	35	XLD 26 <b>35</b>
Ø2.6	41	XLD 26 <b>41</b>



※ Note: Drill speed 1,000rpm, 30~45N·cm with irrigation.

# Drill

Unit: mm, Scale 1 : 1 / mm

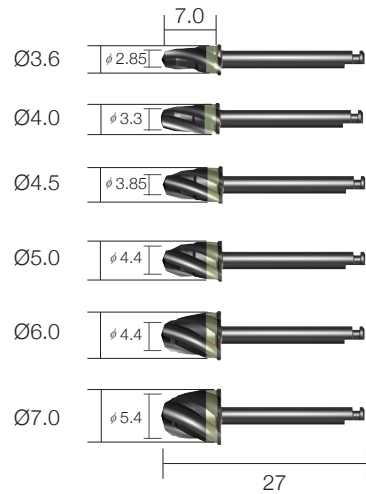
## Pilot Drill

Diameter	L	Art. No.
Ø3.0	30	XPD 20 30



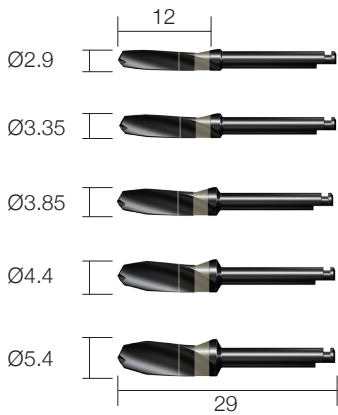
## Final Drill | For Short Implant

Diameter	L	Art. No.
Ø3.6	27	XFC 36 07
Ø4.0	27	XFC 40 07
Ø4.5	27	XFC 45 07
Ø5.0	27	XFC 50 07
Ø6.0	27	XFC 60 07
Ø7.0	27	XFC 70 07



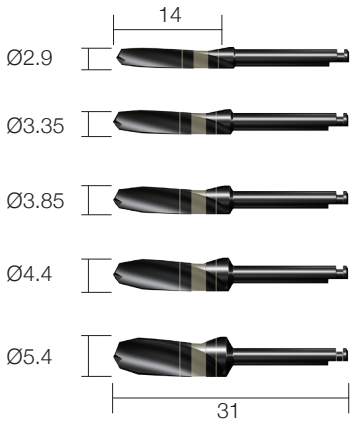
## Final Drill | Length-29mm

Diameter	L	Art. No.
Ø2.9	29	XFD 34 29
Ø3.35	29	XFD 38 29
Ø3.85	29	XFD 43 29
Ø4.4	29	XFD 48 29
Ø5.4	29	XFD 58 29SW



## Final Drill | Length-31mm

Diameter	L	Art. No.
Ø2.9	31	XFD 34 31
Ø3.35	31	XFD 38 31
Ø3.85	31	XFD 43 31
Ø4.4	31	XFD 48 31
Ø5.4	31	XFD 58 31



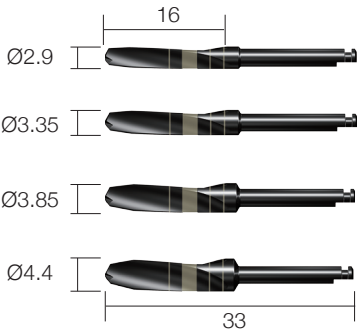
※ Note: Drill speed 1,000rpm, 30~45N·cm with irrigation.

# Drill

Unit: mm, Scale 1 : 1 / mm

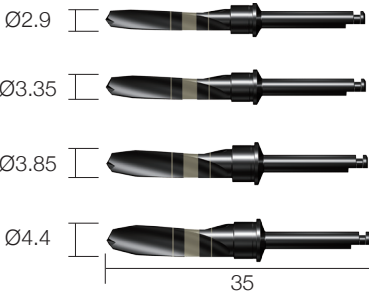
## Final Drill | Length-33mm

Diameter	L	Art. No.
Ø2.9	33	XFD 34 33
Ø3.35	33	XFD 38 33
Ø3.85	33	XFD 43 33
Ø4.4	33	XFD 48 33



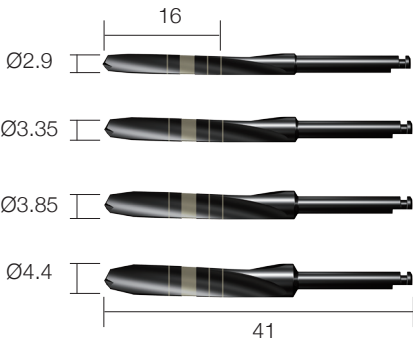
## Final Drill | Length-35mm | Stopper

Diameter	L	Art. No.
Ø2.9	35	XFD 34 35
Ø3.35	35	XFD 38 35
Ø3.85	35	XFD 43 35
Ø4.4	35	XFD 48 35



## Final Drill | Length-41mm

Diameter	L	Art. No.
Ø2.9	41	XFD 34 41
Ø3.35	41	XFD 38 41
Ø3.85	41	XFD 43 41
Ø4.4	41	XFD 48 41



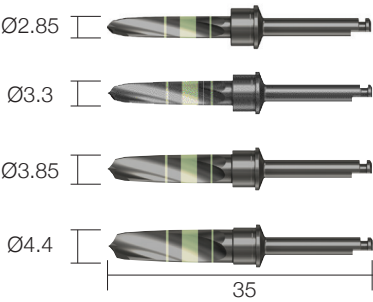
※ Note: Drill speed 1,000rpm, 30~45N-cm with irrigation.

# Drill

Unit: mm, Scale 1 : 1 / mm

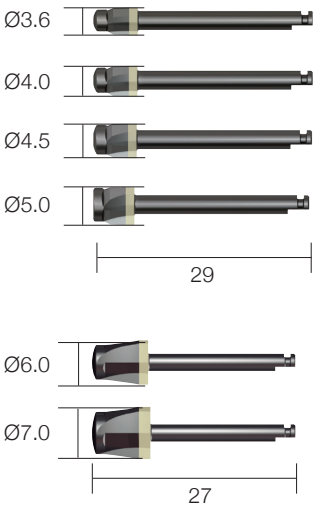
## Harvest Drill | Length-35mm | Stopper

Diameter	L	Art. No.
Ø2.85	35	XFH 34 35
Ø3.3	35	XFH 38 35
Ø3.85	35	XFH 43 35
Ø4.4	35	XFH 48 35



## Countersink

Diameter	L	Art. No.
Ø3.6	29	XCS 36 29 SW
Ø4.0	29	XCS 40 29 SW
Ø4.5	29	XCS 45 29 SW
Ø5.0	29	XCS 50 29 SW
Ø6.0	27	XCS 60 29 SW
Ø7.0	27	XCS 70 29 SW



## Round Bur

Diameter	L	Art. No.
Ø2.0	33	XRB 20 33
Ø3.0	33	XRB 30 33



※ Note: Drill speed 1,000rpm, 30~45N·cm with irrigation.

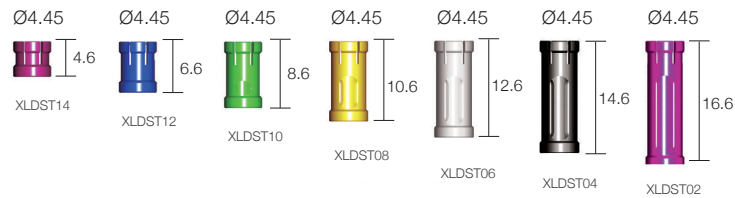


# Stopper

Unit: mm, Scale 1 : 1 / mm

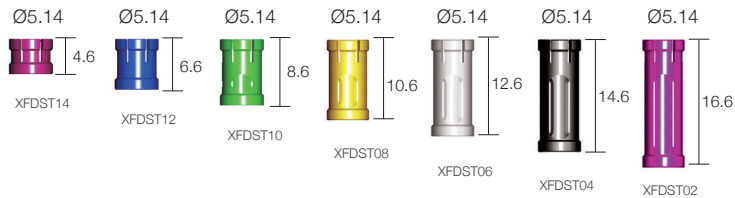
**Stopper** | For first guide drill, second guide drill

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



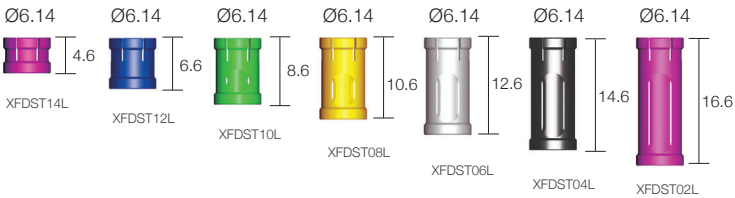
**Stopper** | For final drill 3435, 3835

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



**Stopper** | For final drill 4335, 4835

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

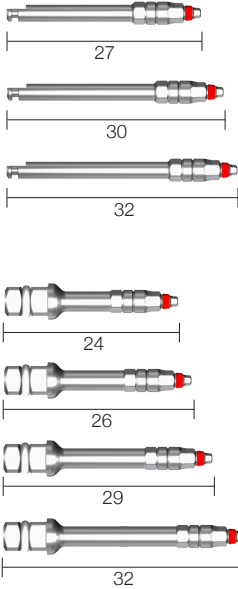


# Instrument

Unit: mm, Scale 1 : 1 / mm

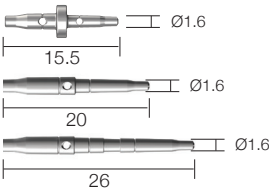
## Adapter | Hex 1.28mm

Type	L	Art. No.
Hand-piece	<b>27</b>	XID <b>27</b> H
	<b>30</b>	XID <b>30</b> H
	<b>32</b>	XID <b>32</b> H
Ratchet	<b>24</b>	XID <b>24</b> W
	<b>26</b>	XID <b>26</b> W
	<b>29</b>	XID <b>29</b> W
	<b>29</b>	XID <b>32</b> W



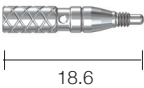
## Parallel Pin | For first guide drill, second guide drill

Diameter	Art. No.
Ø1.6	XPP 162212
Ø1.6	XPP 162220T
Ø1.6	XPP 162226T



## Path Pin

L	Art. No.
18.6	XMFP A2

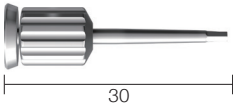
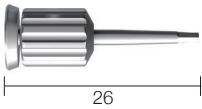
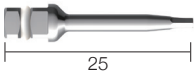
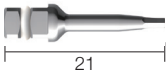


# Instrument

Unit: mm, Scale 1 : 1 / mm

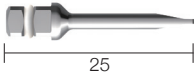
## Hex Driver | Hex 1.28mm

Type	L	Art. No.
Hand-piece	<b>25</b>	XHD <b>25</b> H
Ratchet	<b>21</b>	XHD <b>21</b> W
	<b>25</b>	XHD <b>25</b> W
	<b>27</b>	XHD <b>27</b> W
Manual	<b>26</b>	XHD <b>26</b> T
	<b>30</b>	XHD <b>30</b> T



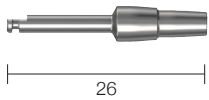
## Slot Driver

Type	Art. No.
Ratchet	SDA <b>17</b> R
	SDA <b>25</b> R



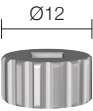
## Drill Extension

XDE
-----



## Driver | Manual

Type	Art. No.
Manual	XHDHT

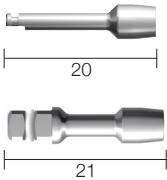


# Instrument

Unit: mm

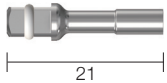
**Adapter** | For screw & ball abutment | Scale 1 : 1 / mm

Type	Art. No.
Hand-piece	XMAA1
Ratchet	XMA 21W



**Adapter** | For mini ball abutment | Scale 1 : 1 / mm

IPST21W
---------



**Ratchet**

XRCA1
-------



**Torque Wrench** | Scale 1 : 0.7 / mm

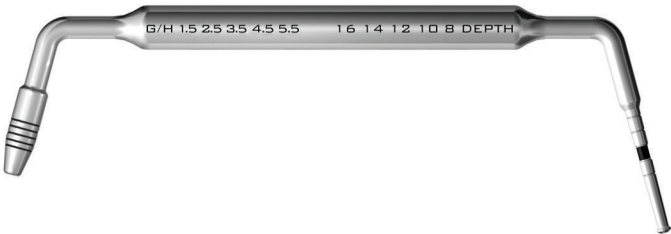
XNTW
------



**Depth Gauge**

XDGL
------

※ Note: One side of Depth Gauge measures the osteotomy depth and the other side measures the gingival height from the top of the implant.



**Tissue Punch** | Scale 1 : 1 / mm

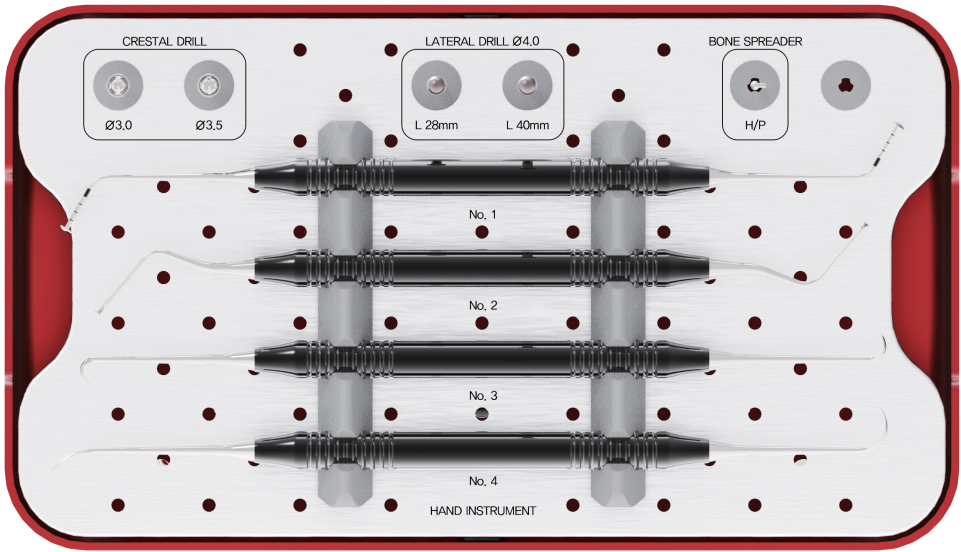
XTS40
-------



※Punching size : Ø4.0

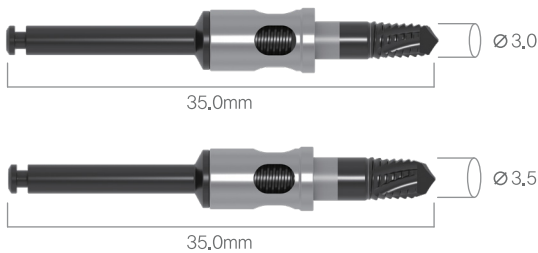
# DASK [Dentium Advanced Sinus Kit] *Simple*

Unit: mm, Scale 1 : 1



DASK-S

## Compaction Drill



Top view



Diameter  
Ø 3,0

※ Drills to be replaced after 50 uses

Diameter	L	Art. No
Ø 3,0	35,0mm	SRT3035AS
Ø 3,5	35,0mm	SRT3535AS

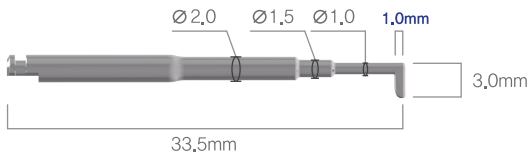
## Lateral Drill



※ Drills to be replaced after 50 uses

Diameter	L	Art. No
Ø 4,0	28,0mm	SLD0428
Ø 4,0	40,0mm	SLD0440

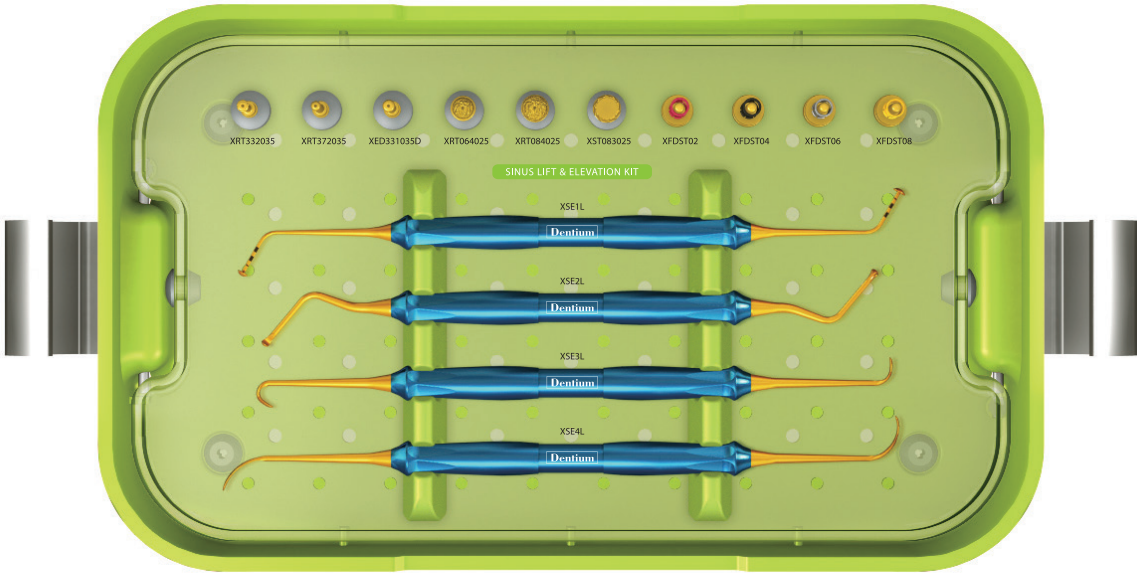
## Bone Spreader



Diameter	L	Art. No
Ø 5,0	33,5mm	SSP33



# DASK [Dentium Advanced Sinus Kit]



DASK

## Kit Contents

- DASK drill



XRT**33**2035



XRT**37**2035



XED**33**1035D



XRT**06**4025



XRT**08**4025



XST**08**3025
- Stopper

XFDST 08



XFDST 06



XFDST 04



XFDST 02



• Sinus elevation instrument



XSE**1L**



XSE**2L**

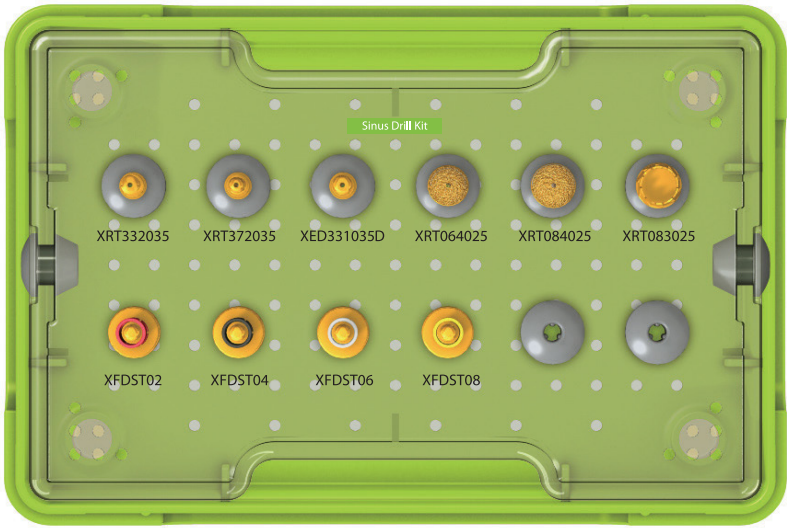


XSE**3L**



XSE**4L**

# Sinus Bur Kit / Sinus Kit



SDK

## Kit Contents

- DASK drill



XRT332035



XRT064025



XRT372035



XRT084025



XED331035D



XST083025

- Stopper

XFDST08



XFDST06



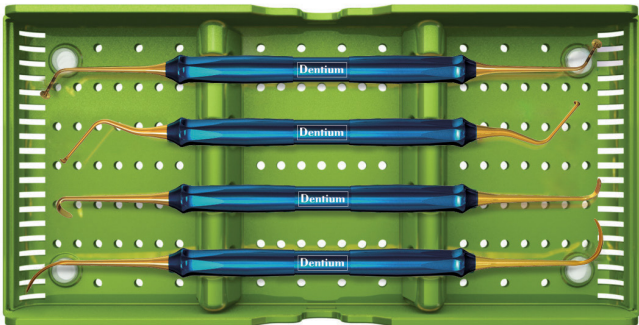
XFDST04



XFDST02



## Sinus Kit



(XSE1L)

(XSE2L)

(XSE3L)

(XSE4L)

XSKL

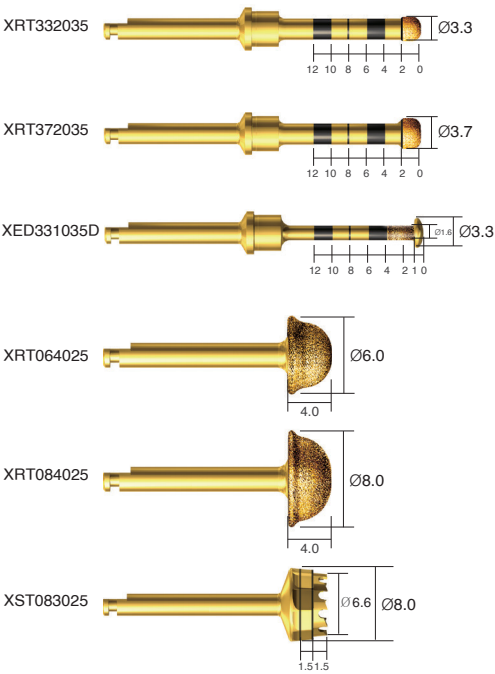
# DASK / Sinus Bur Kit / Sinus Kit

Unit: mm

## DASK Drill | Scale 1 : 1.2 / mm

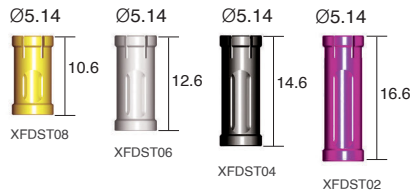
Type	DASK Drill #	Art.No.
Crestal Approach	DASK Drill #1	XRT332035
	DASK Drill #2	XRT372035
	DASK Drill #3	XED331035D
Lateral Approach	DASK Drill #4	XRT064025
	DASK Drill #5	XRT084025
	DASK Drill #6	XST083025

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

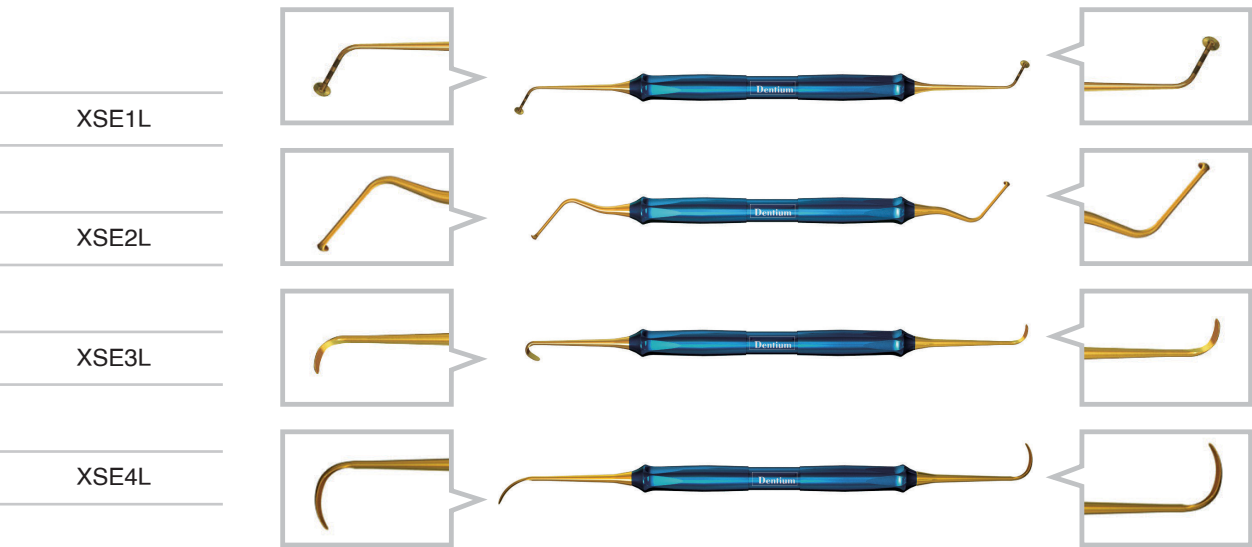


## Stopper | For XRT332035, XRT372035, XED331035D | Scale 1 : 1 / mm

Drilling Depth	L	Art.No.
08	10.6	XFDST08
06	12.6	XFDST06
04	14.6	XFDST04
02	16.6	XFDST02



## Sinus Elevation Instrument | Scale 1 : 0.45 / mm

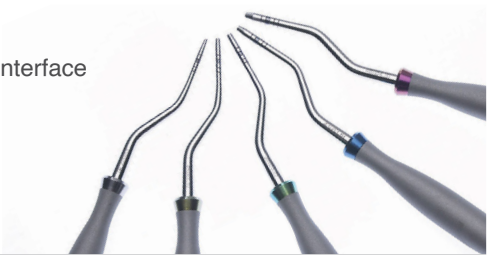


# Osteotome Kit

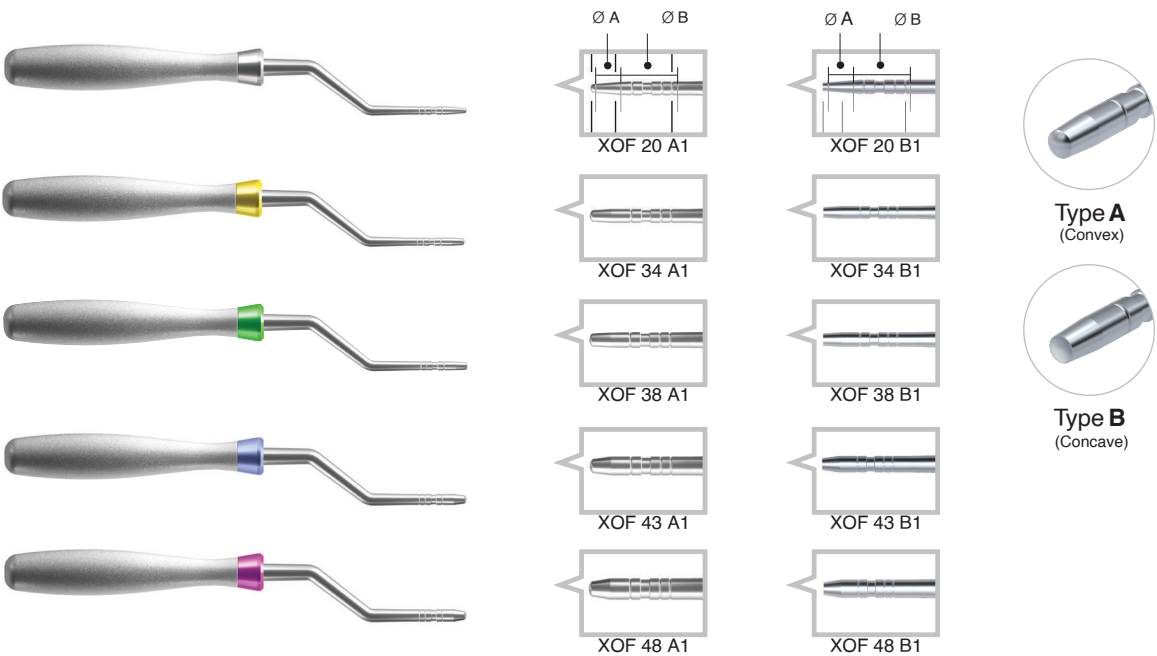
Unit: mm

## Osteotome Kit

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

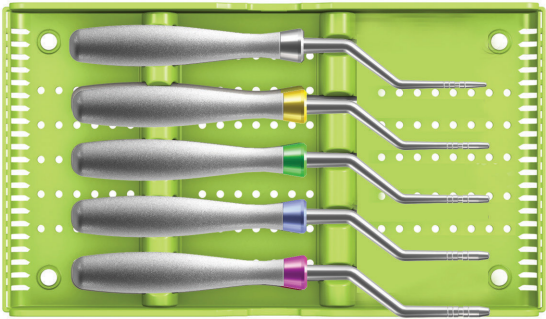


**Osteotome** | Final drill type | Scale 1 : 0.4 / mm



## Osteotome Kit

Type	Art.No.	Ø A	Ø B
<b>XOFK</b> Type A (Convex)	XOF 20 <b>A</b> 1	Ø 1.7	Ø 2.8
	XOF 34 <b>A</b> 1	Ø 2.3	Ø 2.8
	XOF 38 <b>A</b> 1	Ø 2.7	Ø 3.2
	XOF 43 <b>A</b> 1	Ø 2.8	Ø 3.8
	XOF 48 <b>A</b> 1	Ø 3.0	Ø 4.3
<b>XOFBK</b> Type B (Concave)	XOF 20 <b>B</b> 1	Ø 1.7	Ø 2.8
	XOF 34 <b>B</b> 1	Ø 2.3	Ø 2.8
	XOF 38 <b>B</b> 1	Ø 2.7	Ø 3.2
	XOF 43 <b>B</b> 1	Ø 2.8	Ø 3.8
	XOF 48 <b>B</b> 1	Ø 3.0	Ø 4.3



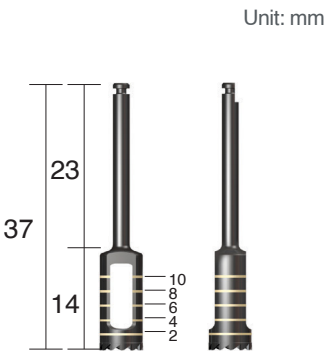
XOFK (Type A)

XOFBK (Type B)

# Trephine Kit

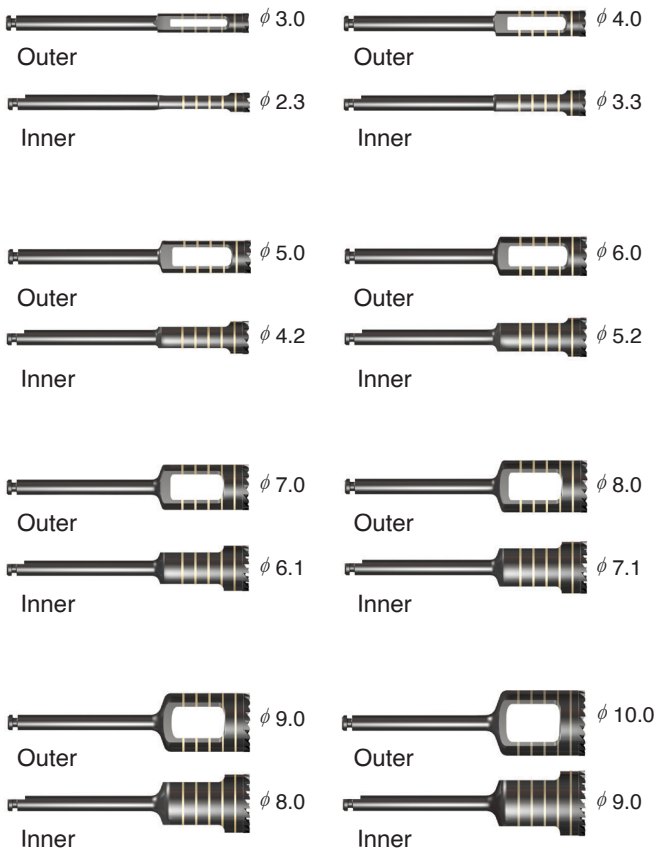
## Trephine Bur

- 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



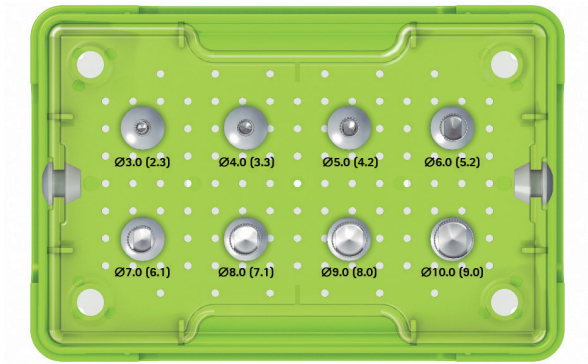
### Trephine Bur | Scale 1 : 0.5 / mm

Outer Diameter	Inner Diameter	Art. No.
Ø3.0	Ø2.3	XTP 24 03
Ø4.0	Ø3.3	XTP 34 04
Ø5.0	Ø4.2	XTP 44 05
Ø6.0	Ø5.2	XTP 54 06
Ø7.0	Ø6.1	XTP 64 07
Ø8.0	Ø7.1	XTP 74 08
Ø9.0	Ø8.0	XTP 84 09
Ø10.0	Ø9.0	XTP 94 10

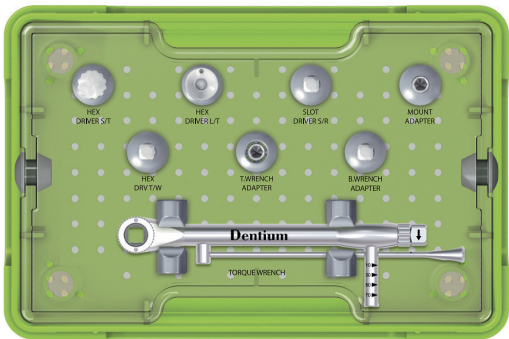


## Trephine Kit

XIT



# Prosthetic Kit



XIP

Hex Driver L/T | Scale 1 : 1 / mm

XHD30 T



Mount Adapter | Scale 1 : 1 / mm

XMAA1



T/W Adapter | Scale 1 : 1 / mm

XMA21 W



Torque Wrench | Scale 1 : 0.5 / mm

XNTW

Hex Driver S/T | Scale 1 : 1 / mm

XHD15



Slot Driver | Scale 1 : 1 / mm

SDA25 R



Hex Driver T/W | Scale 1 : 1 / mm

XHD25 W



Mini Ball Adapter | Scale 1 : 1 / mm

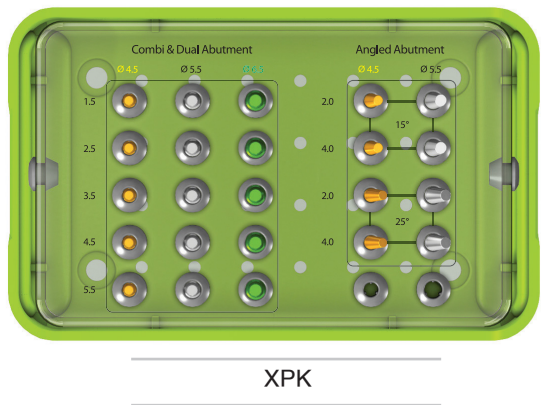
IPST21 W





# Planning Kit

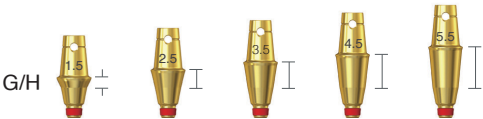
Unit: mm, Scale 1 : 1 / mm



## Kit Contents

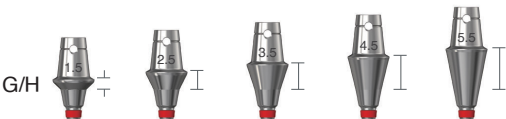
### Diameter Ø4.5 | Combi & Dual abutment

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



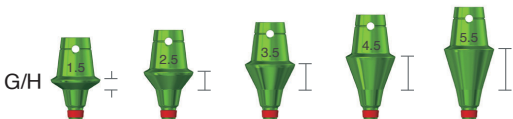
### Diameter Ø5.5 | Combi & Dual abutment

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



### Diameter Ø6.5 | Combi & Dual abutment

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



### Angled 15° | Angled abutment

Diameter	G/H	Art.No.
Ø4.5	2.0	PAAB 15 45 20
Ø4.5	4.0	PAAB 15 45 40
Ø5.5	2.0	PAAB 15 55 20
Ø5.5	4.0	PAAB 15 55 40



### Angled 25° | Angled abutment

Diameter	G/H	Art.No.
Ø4.5	2.0	PAAB 25 45 20
Ø4.5	4.0	PAAB 25 45 40
Ø5.5	2.0	PAAB 25 55 20
Ø5.5	4.0	PAAB 25 55 40

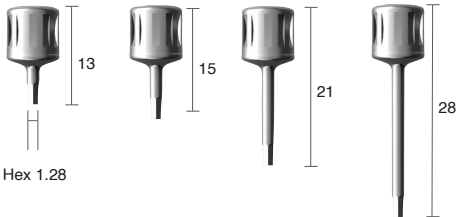


# Prosthetic and Laboratory Instrument

Unit: mm

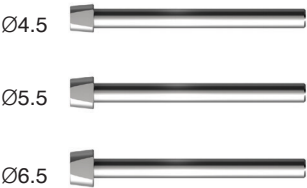
Hex Driver | Hex 1.28 mm | Scale 1 : 1 / mm

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



Reamer Guide for Combi/Dual Abutment | Scale 1 : 1 / mm

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



Reamer Guide for Screw Abutment | Scale 1 : 1 / mm

Type	Art. No.
Bridge	SRG BL
Single	SRG SL



# Prosthetic and Laboratory Instrument

Reamer Handle | Scale 1 : 0.5 / mm

CRH



Hand Wrench | Scale 1 : 1 / mm

XHW



Reamer (Combi/Dual Abutment) | Scale 1 : 1 / mm

CRM



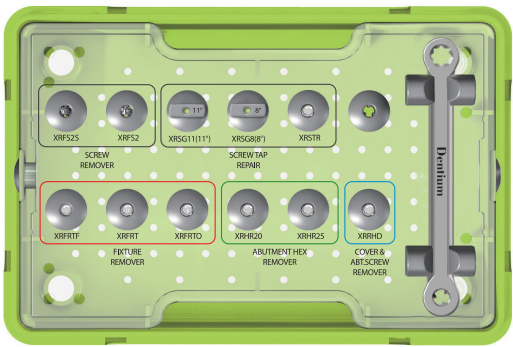
Reamer (Screw Abutment) | Scale 1 : 1 / mm

SRM



# Help Kit

Unit: mm

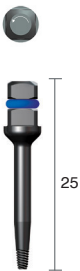


XIH

## Cover & Abutment Screw Remover

Scale 1 : 1 / mm

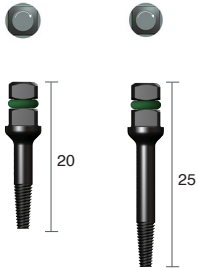
L	Art. No
25	XRRHD



## Abutment Hex Remover

Scale 1 : 1 / mm

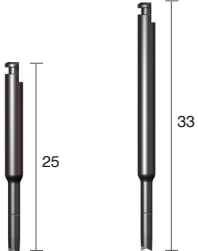
L	Art. No
20	XRHF20
25	XRHF25



## Screw Remover

Scale 1 : 1 / mm

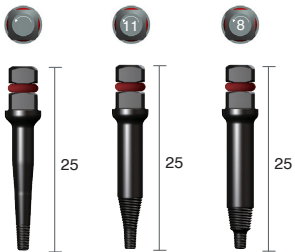
L	Art. No
25	XRF25
33	XRF33



## Fixture Remover

Scale 1 : 1 / mm

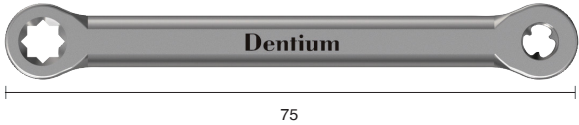
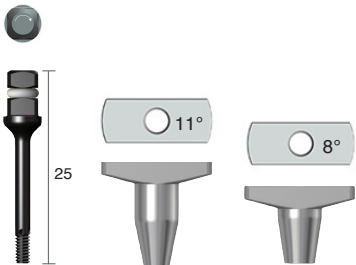
Type	Art. No
Remover	XRFRT
	XRFRTF
	XRFRT0
Wrench	XRFRW



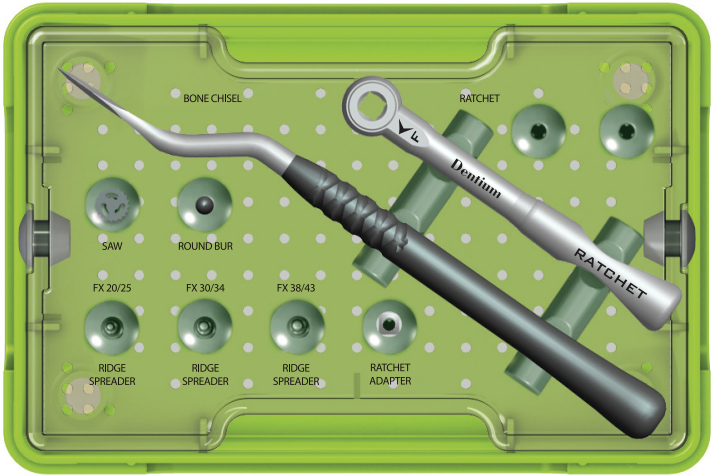
## Screw Tap Repair

Scale 1 : 1 / mm

Type	Art. No
Tap	XRSTR
11° Guide	XRS11
8° Guide	XRS8



# Ridge Spreader Kit



## XRSK

### Bone Chisel

XBC305013
-----------



### Ratchet

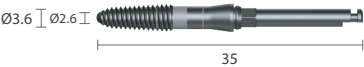
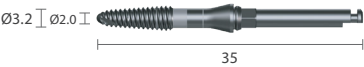
XRCA1
-------



[ Unit: mm, Scale 0.6 : 1 ]

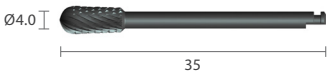
### Ridge Spreader Drills

Diameter	L	Art No.
Ø1.4 / Ø2.4	35	RS142435
Ø2.0 / Ø3.2	35	RS203235
Ø2.6 / Ø3.6	35	RS263635



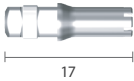
### Round Bur

Diameter	L	Art No.
Ø4.0	35	XR4035



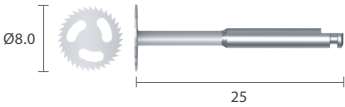
### Ratchet Adapter

XRA3917
---------



### Mini Saw

Diameter	L	Art No.
Ø8.0	25	XDS8025



[ Unit: mm, Scale 1 : 1 ]



















# Surgical Kit [Stopper Drill Kit]



## Stopper Drill Kit

XSDK

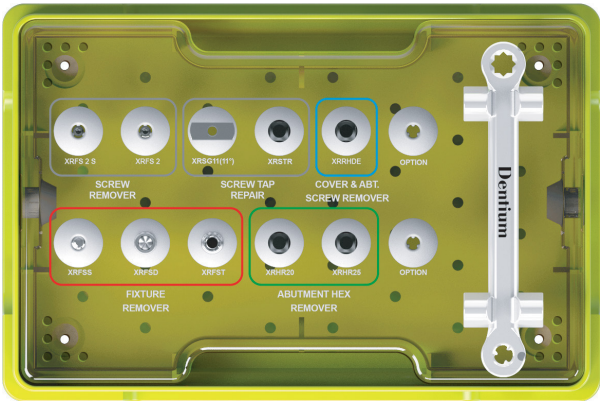
Kit Includes

	First Guide Drill		Second Guide Drill		Final Drill			
L8								
	XLD2208S	XLD2608S	XFD3408S	XFD3808S	XFD4308S	XFD4808S		
L10								
	XLD2210S	XLD2610S	XFD3410S	XFD3810S	XFD4310S	XFD4810S		
L12								
	XLD2212S	XLD2612S	XFD3412S	XFD3812S	XFD4312S	XFD4812S		



# Help Kit

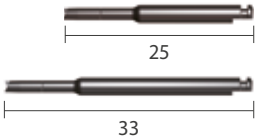
Unit: mm, Scale 1 : 1



XSHK

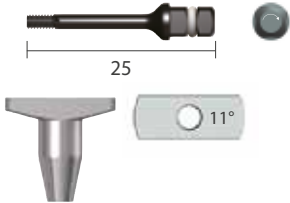
Screw Remover

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



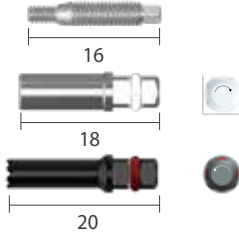
Screw Tap Repair

Type	Art. No.
Tap	XRSTR
11° Guide	XRSG 11



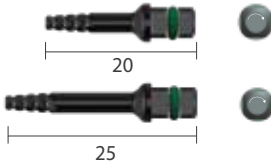
Fixture Remover

Type	Art. No.
Remover Screw	XRFSS
Screw Driver	XRFSD
Remover	XRFST



Abutment Hex Remover

L	Art. No.
20	XRHR 20
25	XRHR 25



Cover & Abutment Screw Remover

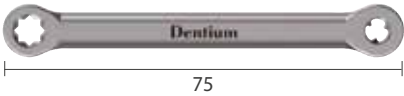
L	Art. No.
25	XRRHDE



Wrench

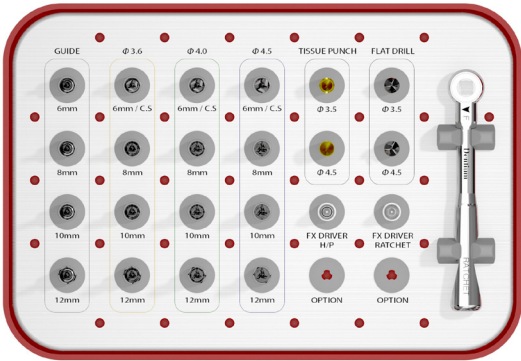
Scale 1: 0.7

XRFRW
-------



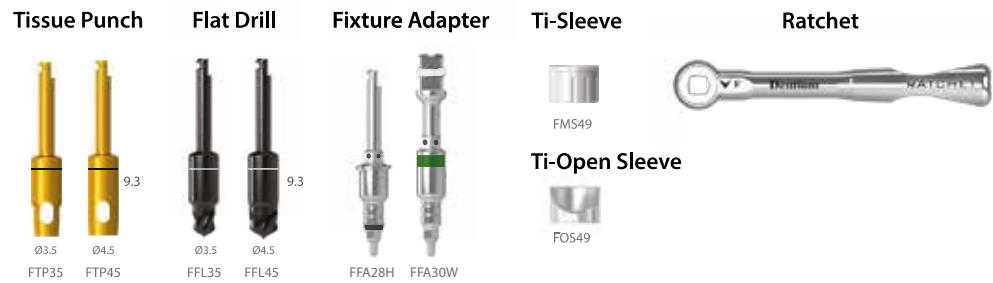
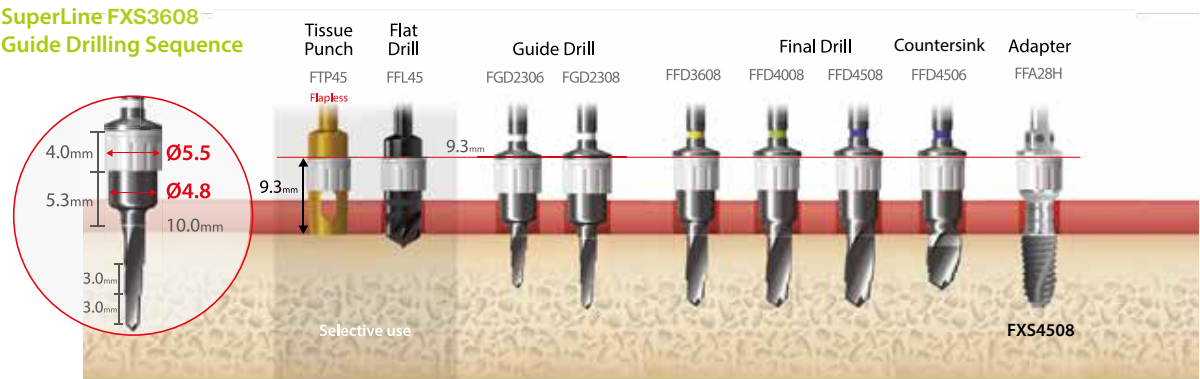
# Digital Full Kit

Unit: mm, Scale 1 : 1



XGSFK

## SuperLine FXS3608™ Guide Drilling Sequence



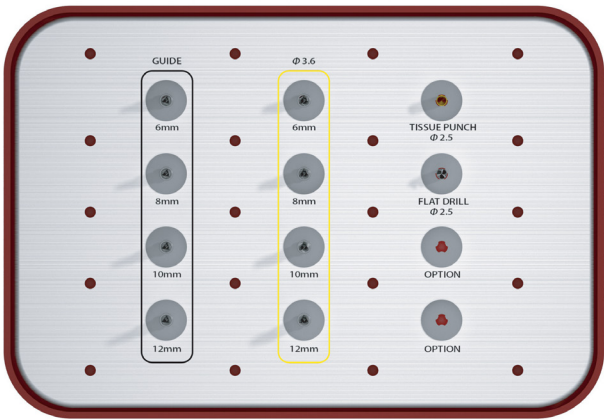
Single	Art. No.
Ti-Sleeve	FMS 49 (1)
Ti-Open Sleeve	FOS 49 (1)

Pack	Art. No.
Ti-Sleeve	FMS 49 (5)
Ti-Open Sleeve	FOS 49 (5)

※ Note: Ti-Sleeve, and Ti-Open Sleeve are not part of the kit.  
They need to be ordered separately

Digital Guide | Simple Kit for Positioning, Anchor

Unit: mm, Scale 1 : 1



XGSSK

SuperLine FXS3608  
Guide Drilling Sequence

Tissue Punch

STP25

Flapless

Flat Drill

SFL25

Guide Drill

SGD2306

Final Drill

SFD3606

SFD3608

Adapter

XCS3629SW

XFA30H

4.0mm

5.3mm

3.0mm

3.0mm

Ø3.7

Ø2.9

10.0mm

9.3mm

9.3mm

Selective use

FXS3608

Guide Drill

6

8

10

12

SGD2306

SGD2308

SGD2310

SGD2312

FX 36 Final Drill

12

10

8

6

SFD3606

SFD3608

SFD3610

SFD3612

Tissue Punch

9.3

Ø2.5

STP25

Flat Drill

9.3

Ø2.5

SFL25

Ti-Sleeve

SMS30

Ti-Open Sleeve

SOS30

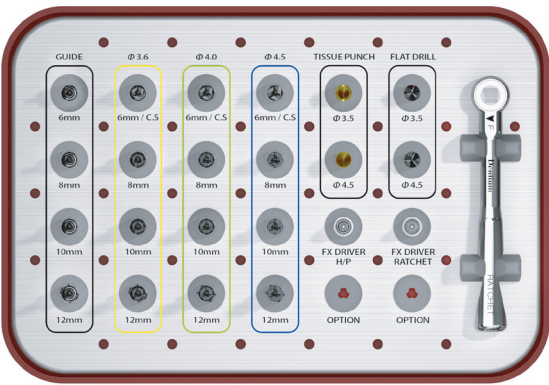
Single	Art. No.
Ti-Sleeve	SMS 30 (1)
Ti-Open Sleeve	SOS 30 (1)

Pack	Art. No.
Ti-Sleeve	SMS 49 (5)
Ti-Open Sleeve	SOS 49 (5)

※ Note: Ti-Sleeve, and Ti-Open Sleeve are not part of the kit.  
They need to be ordered separately

# Digital Guide | 5.0 Kit for FX 36/40/45/50

Unit: mm, Scale 1 : 1



## XGSFKW

SuperLine FXS5008  
Guide Drilling Sequence

4.0mm

5.3mm

10.0mm

Ø6.0

Ø5.3

Tissue Punch

Flat Drill

Guide Drill

Final Drill

CounterSink

Fixture Adapter

WFTP45

WFFL45

WFGD2304

WFD3608

WFD4008

WFD4508

WFD5008

WFD5006

WFFA28H

9.3mm

9.3mm

9.3mm

9.3mm

9.3mm

9.3mm

9.3mm

9.3mm

9.3mm

Selective use

FXS5008

Guide Drill

FX36 Final Drill

FX40 Final Drill

FX45 Final Drill

FX50 Final Drill

WFGD2304

Countersink

WFFD3606

WFFD3608

WFFD3610

WFFD3612

Countersink

WFFD4006

WFFD4008

WFFD4010

WFFD4012

Countersink

WFFD4506

WFFD4508

WFFD4510

WFFD4512

Countersink

WFFD5006

WFFD5008

WFFD5010

WFFD5012

Tissue Punch

Flat Drill

Fixture Adapter

Ti-Sleeve

Ti-Open Sleeve

Ratchet

WFTP35

WFTP45

WFFL35

WFFL45

WFFA28H

WFFA30W

FMS54

FOS54

XRCA1

Single		Pack	
Art. No.		Art. No.	
Ti-Sleeve	FMS 54 (1)	Ti-Sleeve	FMS 54 (5)
Ti-Open Sleeve	FOS 54 (1)	Ti-Open Sleeve	FOS 54 (5)

※ Note: Ti-Sleeve, and Ti-Open Sleeve are not part of the kit.  
They need to be ordered separately

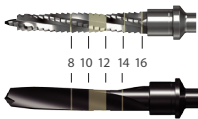




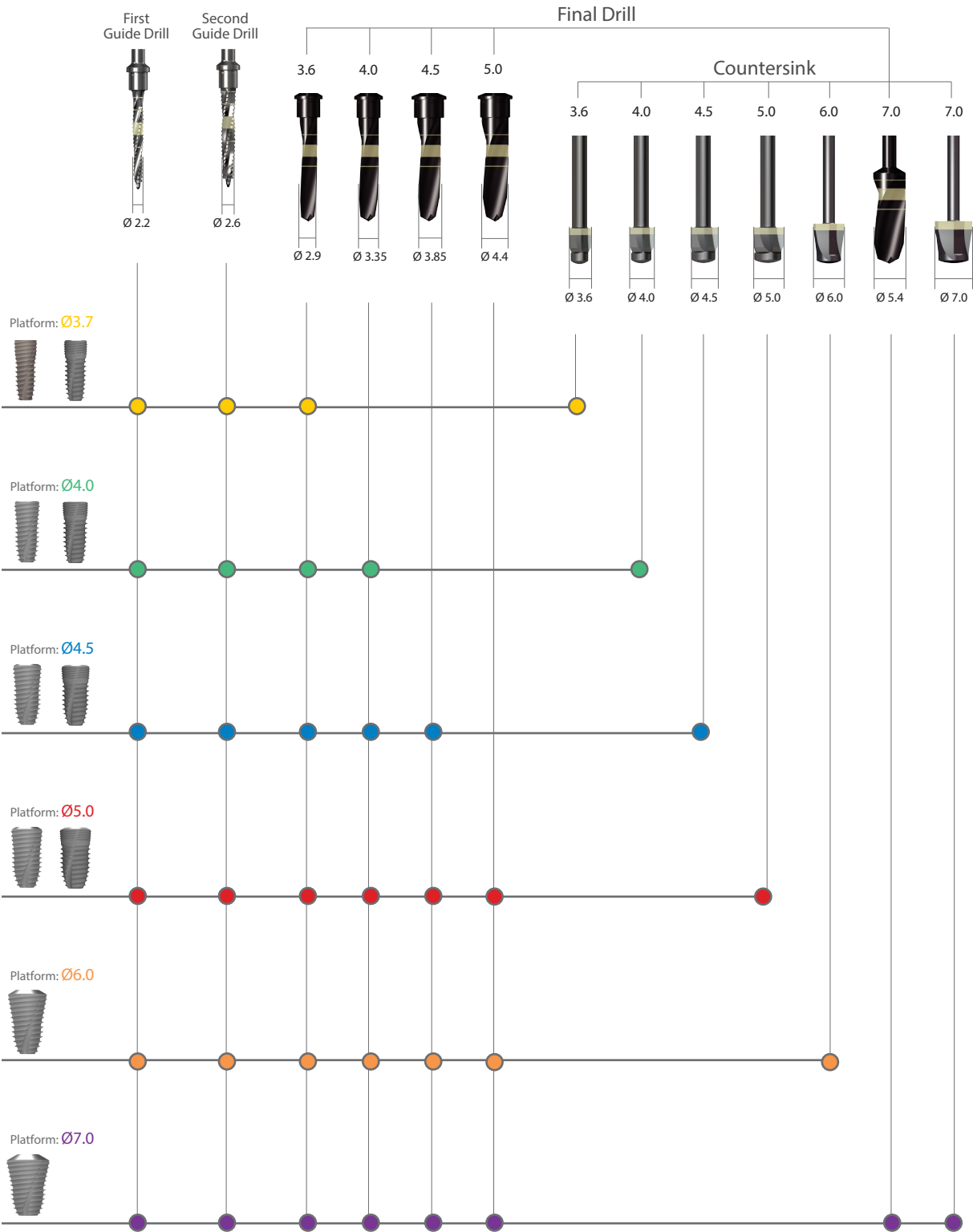
# SURGICAL MANUAL

Surgical Drill Sequence I	79
Surgical Drill Sequence II	81
Drilling Depth Guide	83
Fixture Connection	85
Installation Procedure & Warnings	86
Surgical Kit Maintenance	87

# Surgical Drill Sequence I



## Drilling Sequence Guide (Final Drill)

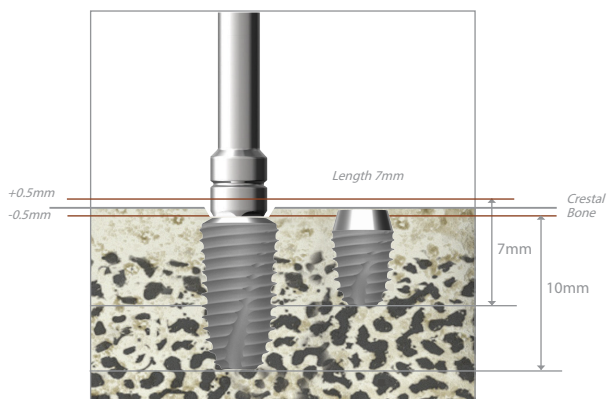




**During Fixture Insertion, 30 ~ 45N·cm Torque at 20rpm is Recommended**

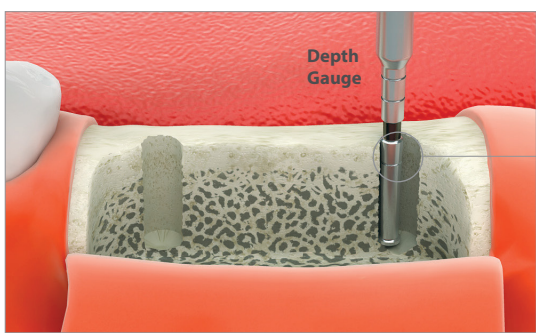
- Countersink drill is used in cases with dense cortical bone.
- If the bone density is D1~D3, it is recommended to countersink after final drill.
- The actual diameter of the Countersink drill is 0.1mm larger than the fixture platform.

**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. However, only for the fixture of 7mm length, top level of fixture should be located 0.5mm above the marginal crestal bone level.

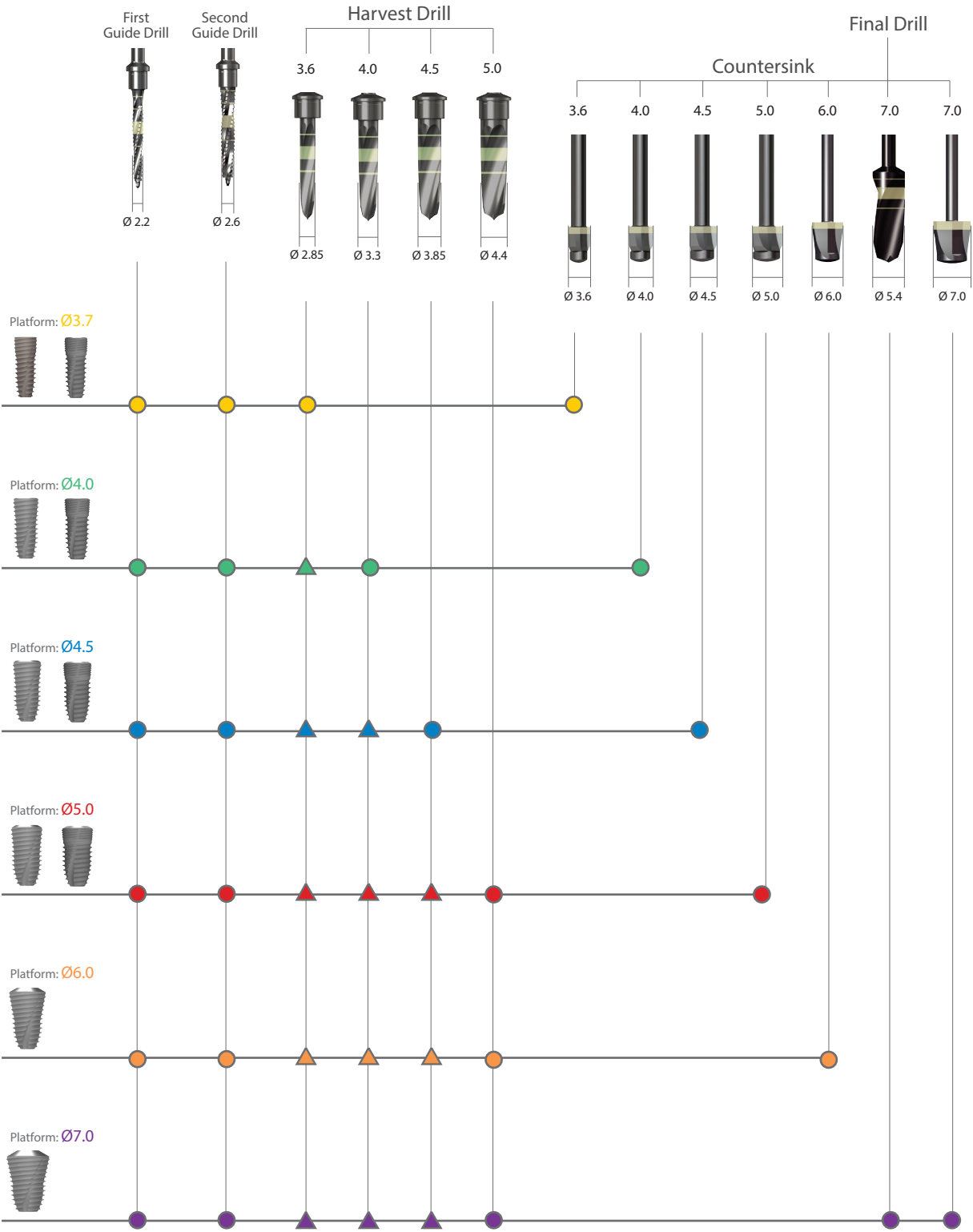
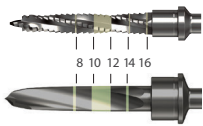
**Depth Indication**



- 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 (Havrest Drill)

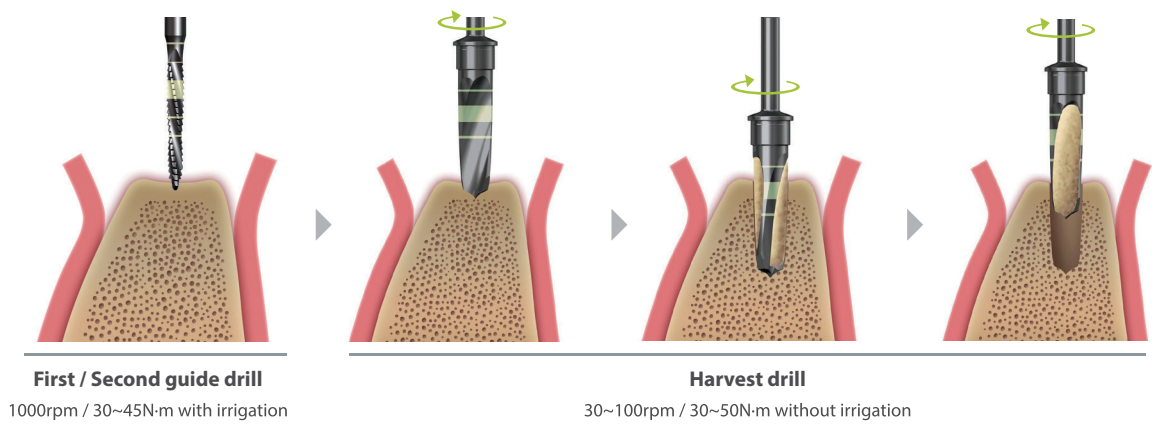


△ : During the 4.3/4.8 fixture insertion into the bone density of D3~D4, the 3.4/3.8 harvest drilling process can be skipped.

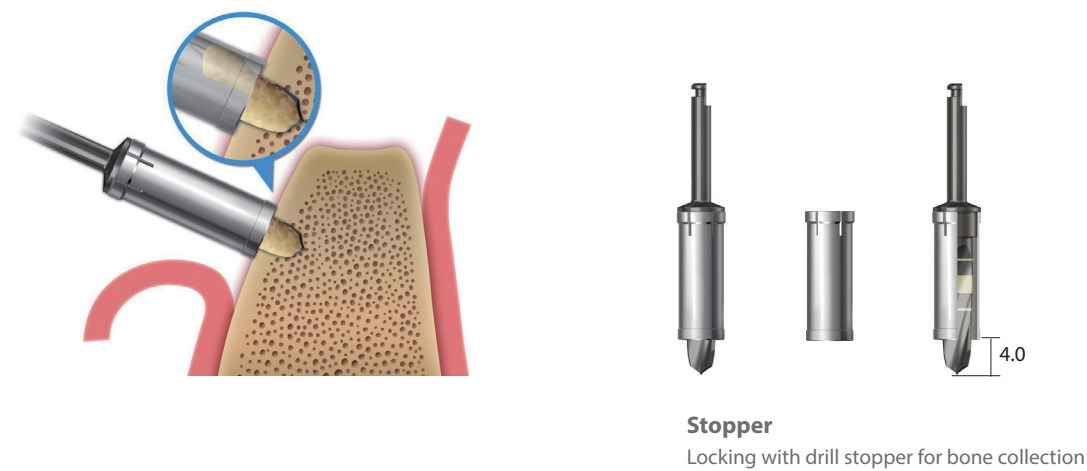
Harvest Drill

Simultaneous and effective autogenous bone collection during the final drilling procedure using a specially designed drill

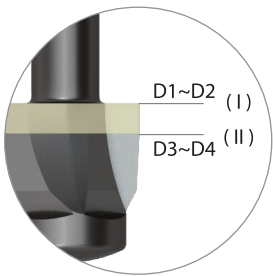
- Sharp pointed tip design of the drill prevents drill chatter and helps guide drill path.
- Available drill stopper helps control drill depth for safe and efficient bone collection, especially in the buccal side of ridge.
- Recommended drill speed of less than 100rpm/50N-cm helps preserve the vital autogenous bone.
- Excellent clinical results may be achieved when harvested autogenous bone is combined with OSTEON™ II.



Bone Collection in the Buccal Side of Ridge: 50~200rpm / 30~50N·cm

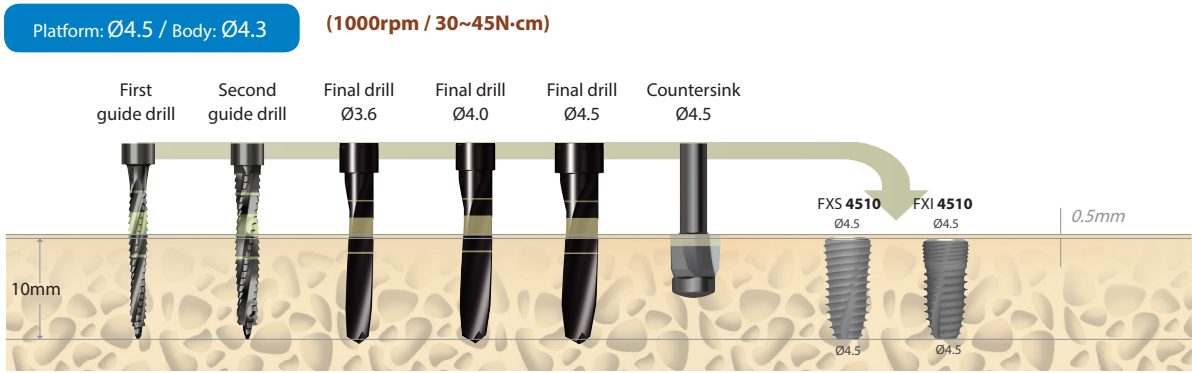
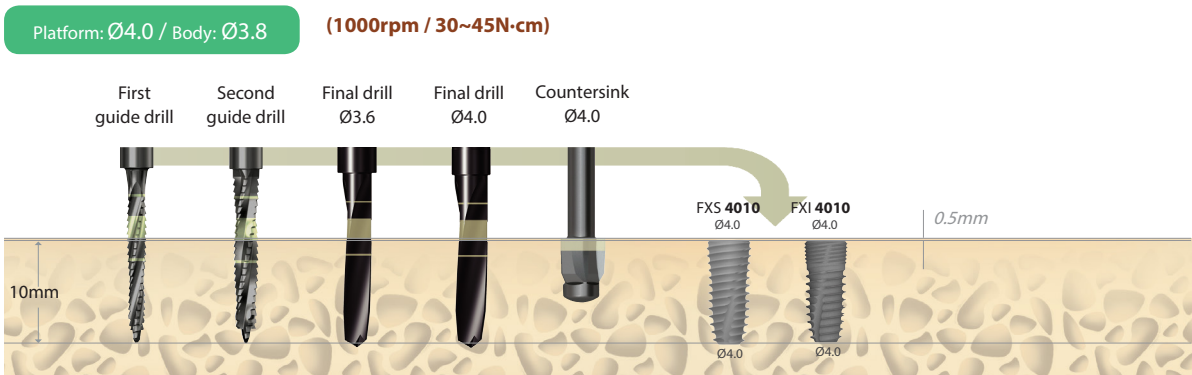
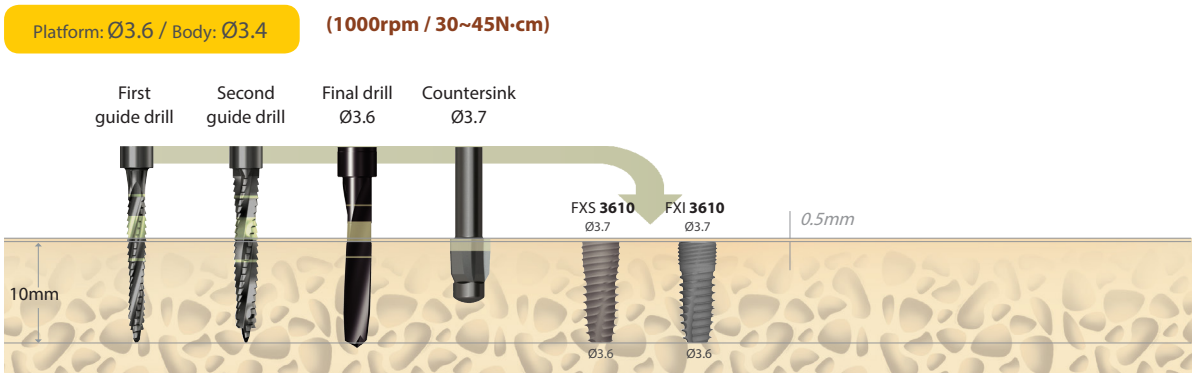


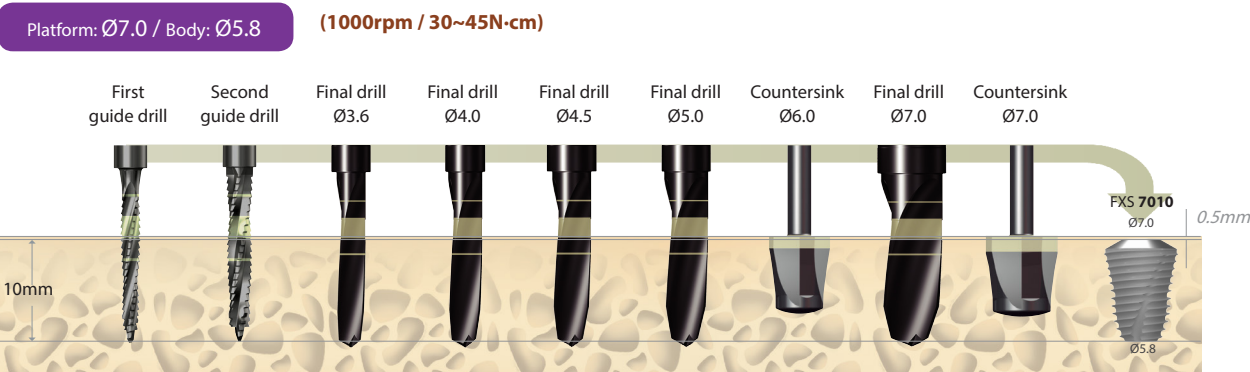
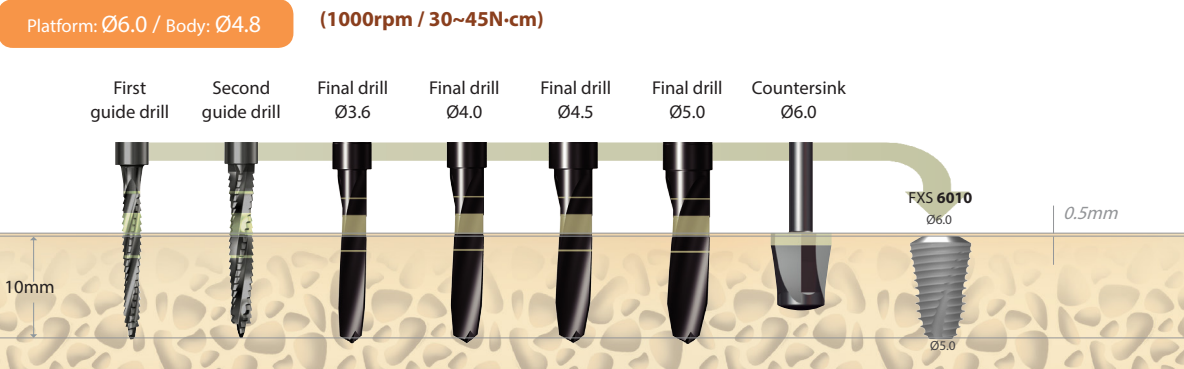
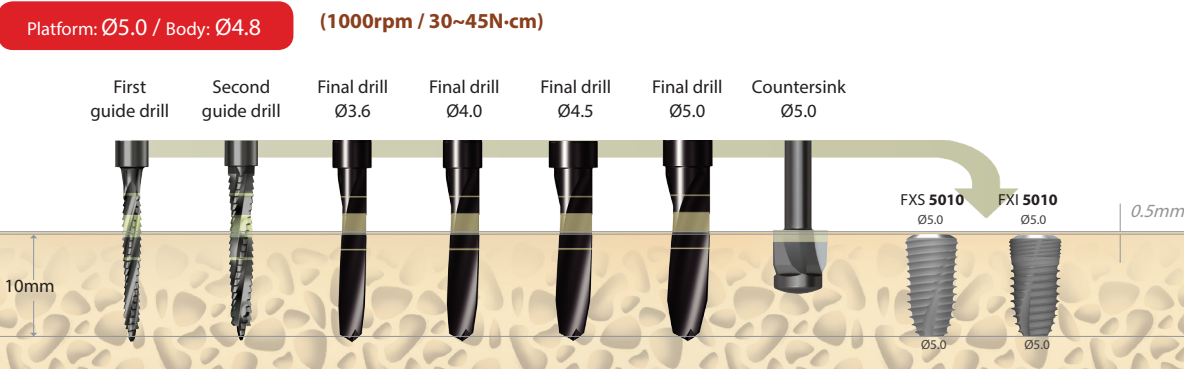
# Drilling Depth Guide



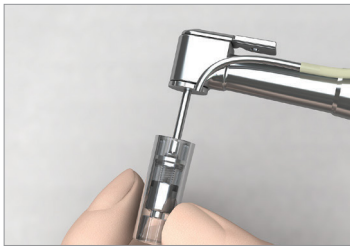
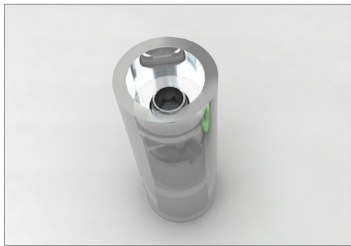
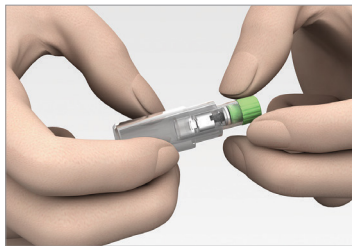
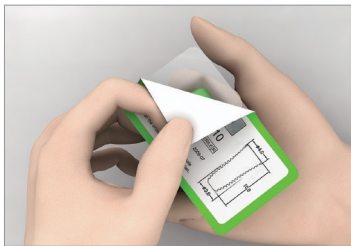
## Countersink Depth Guide

- Drilling depth of the countersink depends on the patient's bone quality.
- If the bone density is D1~D2, it is recommended to drill up to the top line ( I ) of laser mark on the countersink.
- If the bone density is D3~D4, it is recommended to drill up to the bottom line ( II ) of laser mark on the countersink.





# Fixture Connection



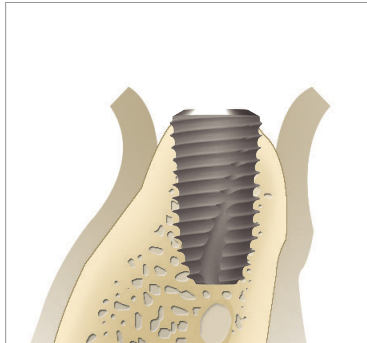
Caution\_ When opening the fixture pack, hold the fixture container upward and engage the adapter into the fixture.



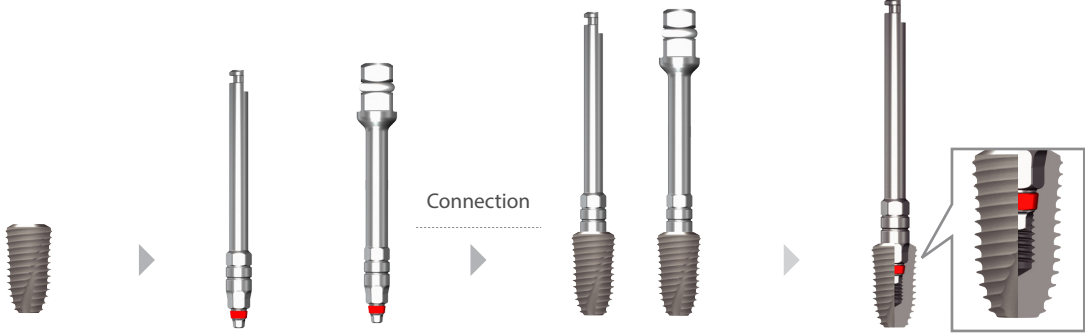
By hand-piece  
20rpm / 35N-cm



By ratchet



## Directions Using the Hand-piece / Ratchet Adapter



Hand-piece  
Adapter

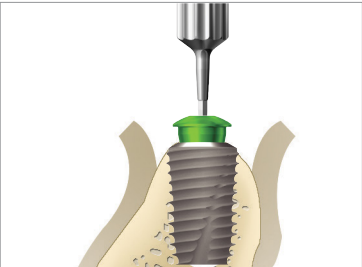
Ratchet  
Adapter

The Hand-piece Adapter/Ratchet Adapter must be connected firmly together with the internal hex inside the fixture

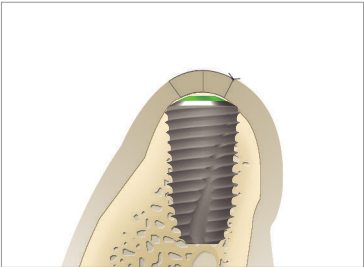


# Installation Procedure & Warnings

## Cover Screw

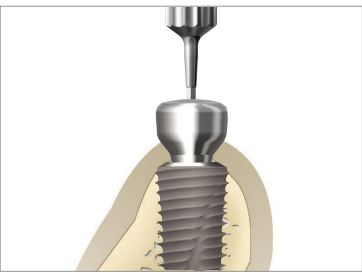


By Hex Driver

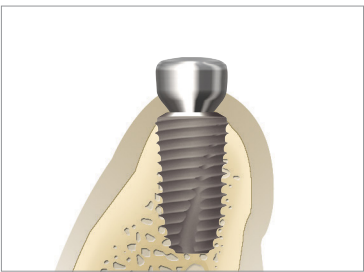


Cover Screw (CS36)  
connection

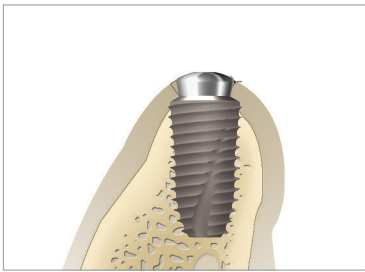
## Healing Abutment



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 osseointegration 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 °C	132 °C
Exposure time	4 minutes	30 minutes
Drying time	20 minutes	40 minutes



# PROSTHESIS MANUAL

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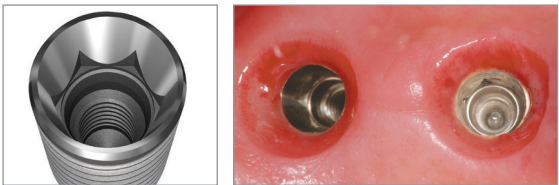
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# Understanding the Implant and Prosthesis



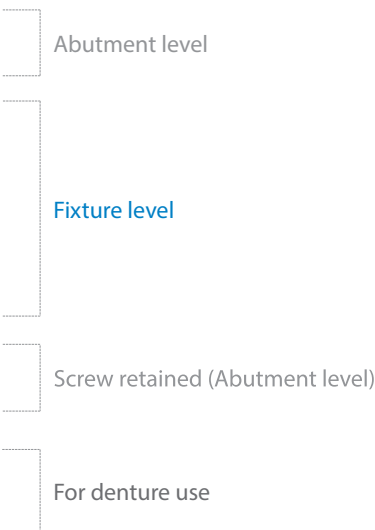
## Biological Connection

- 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
- Dual Abutment
- Dual Milling Abutment
- Angled Abutment (15°/25°)
- Direct-Casting Abutment
- Metal-Casting Abutment
- Temporary Abutment (Plastic & Titanium)
- Screw Abutment
- Angled Screw Abutment (15°/ 30°)
- Positioner Attachment
- Ball Attachment
- Magnetic Attachment





# Types of Abutment

One-Piece	Two-Pieces	
 Combi Abutment	 Hex	 Non-hex
	 Hex	 Non-hex
 Screw Abutment	 Hex	 Non-hex
	 Hex	 Non-hex
	 Hex	 Non-hex
 Cylinder	 Hex	 Non-hex
	 Hex	 Non-hex
	 Hex	 Non-hex
Abutment Level	Fixture Level	

- 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.

## Selection Guideline

Ideal emergence profile for each tooth



# Dual Abutment



- It is possible to take an impression at both ÿxture 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 ÿxture level impressions, the abutment selection takes place on the master model.
- For ÿxture 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	Required	Unnecessary

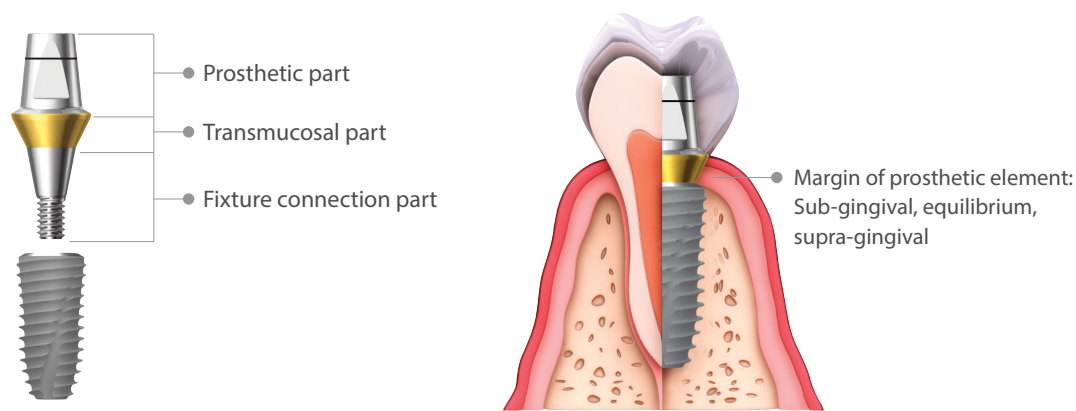
## Dual Abutment (Hex / Non-hex)

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.
  - 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°



# Dual Milling / Angled / Temporary / Direct-Casting Abutment / Metal-Casting Abutment



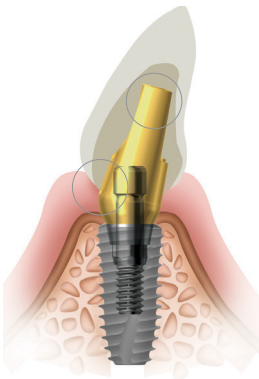
## Dual Milling Abutment

- 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.

## Angled Abutment

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



## Direct-Casting Abutment

- Excellent for either single or bridgework
- 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.
- A fixture level impression is taken, and the soft tissue contours can be supported.

# Dual Milling / Angled / Temporary / Direct-Casting Abutment / Metal-Casting Abutment



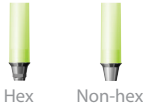

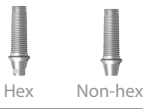
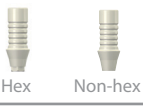
## Metal-Casting Abutment

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

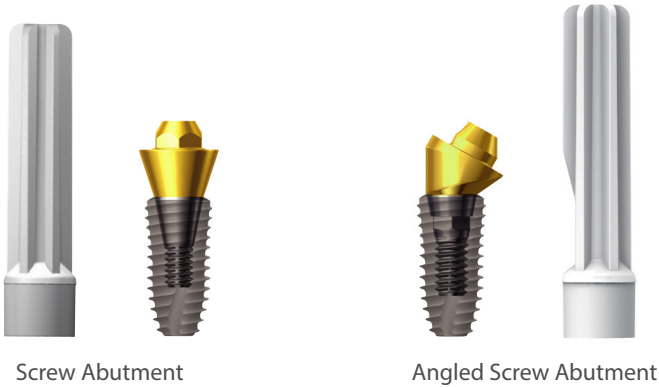
## Temporary Abutment

- 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.
- The plastic abutment comes in diameters (Ø4.5, 5.5, 6.5) with a gingival height of 2.0mm.

## Fixture Level Abutment (Hex / Non-hex)

Abutment	Diameter	G/H	Angle
Dual Milling 	Ø4.0	1.0mm	X
	Ø4.5	1.5mm	
	Ø5.5	1.5 / 2.5mm	
	Ø6.5	1.5 / 2.5 / 3.5mm	
	Ø7.5	2.5 / 3.5mm	
Angled 	Ø4.5	1.5mm 2.5mm 3.5mm	15° / 25°
	Ø5.5	1.5mm 2.5mm 3.5mm	15° / 25°
Direct-Casting Abutment 	Ø4.5	1.0mm	X
Metal-Casting Abutment 	Ø4.5	1.0mm	X
Ti-Temporary 	Ø4.5	1.0mm	X
Plastic Temporary 	Ø4.5 Ø5.5 Ø6.5	2.0mm	X

# Screw Abutment

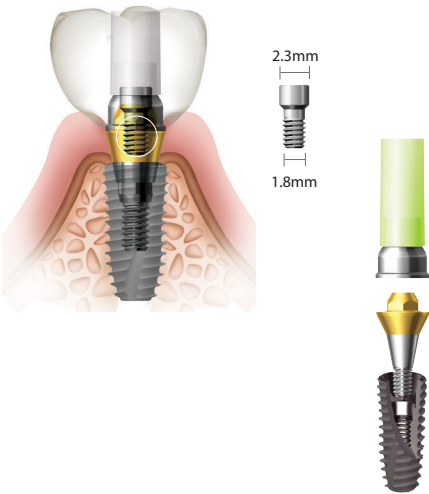


If prosthesis repair is anticipated, use of a Screw Abutment retained prosthesis enables easy retrieval.

- 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.
- 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.

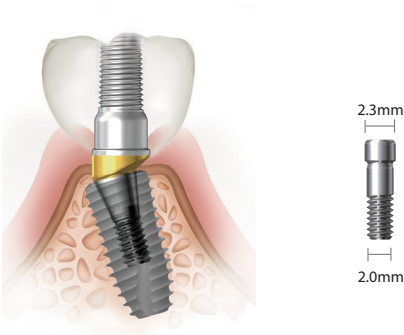


## Screw Abutment

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

Diameter	G/H	Angled
Ø4.5	1.0mm	15°
Ø5.5	1.5mm	30°



# 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

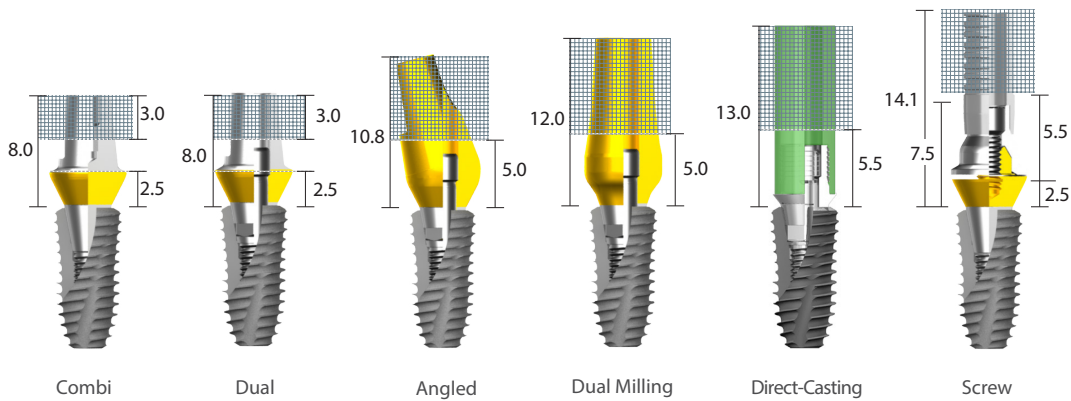
According to the case the impression can be taken at abutment or fixture level.

Fixture Level	Abutment Level
1. Dual Abutment	1. Dual Abutment
2. Dual Milling Abutment	2. Combi Abutment
3. Angled Abutment (15° / 25°)	3. Screw Abutment
4. Direct-Casting Abutment	4. Angled Screw Abutment (15° / 30°)
5. Metal-Casting Abutment	
6. Temporary Abutment (Plastic & Titanium)	

## Abutment Impression Recommendation

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 /Implantium II 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 & Dual Milling Abutment

- Required minimum abutment height: at least 5.0mm above the Fixture top

### Direct-Casting Abutment & Metal-Casting Abutment

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

### Screw Abutment

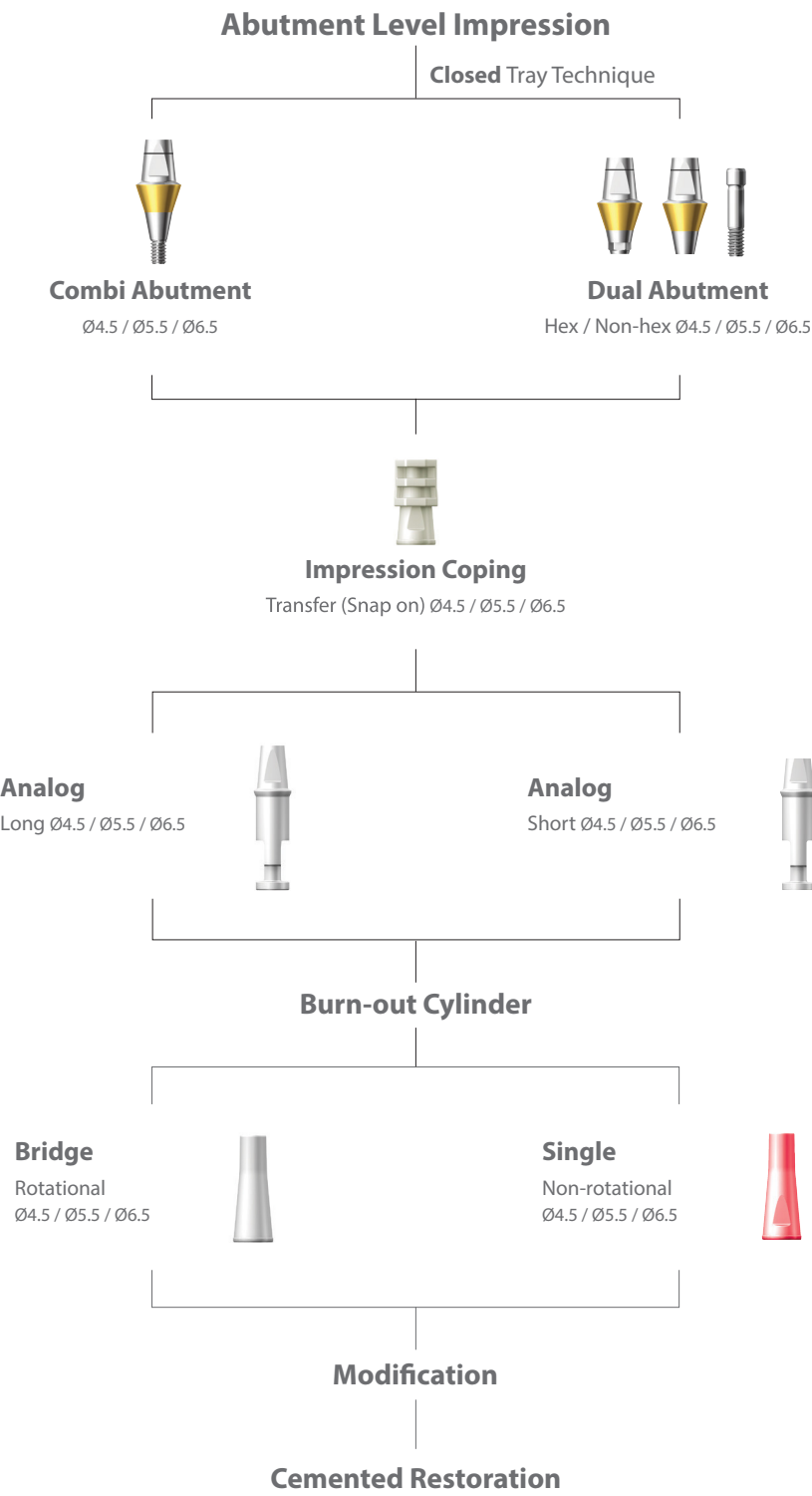
- The Screw Abutment cannot be modified, however the Casting Abutment can be modified for interarch distance, taking reduction into consideration of the height of the retaining screw.



# Prosthetic Procedure 1

Impression Technique and Restoration Selection

## Dual / Combi Abutment



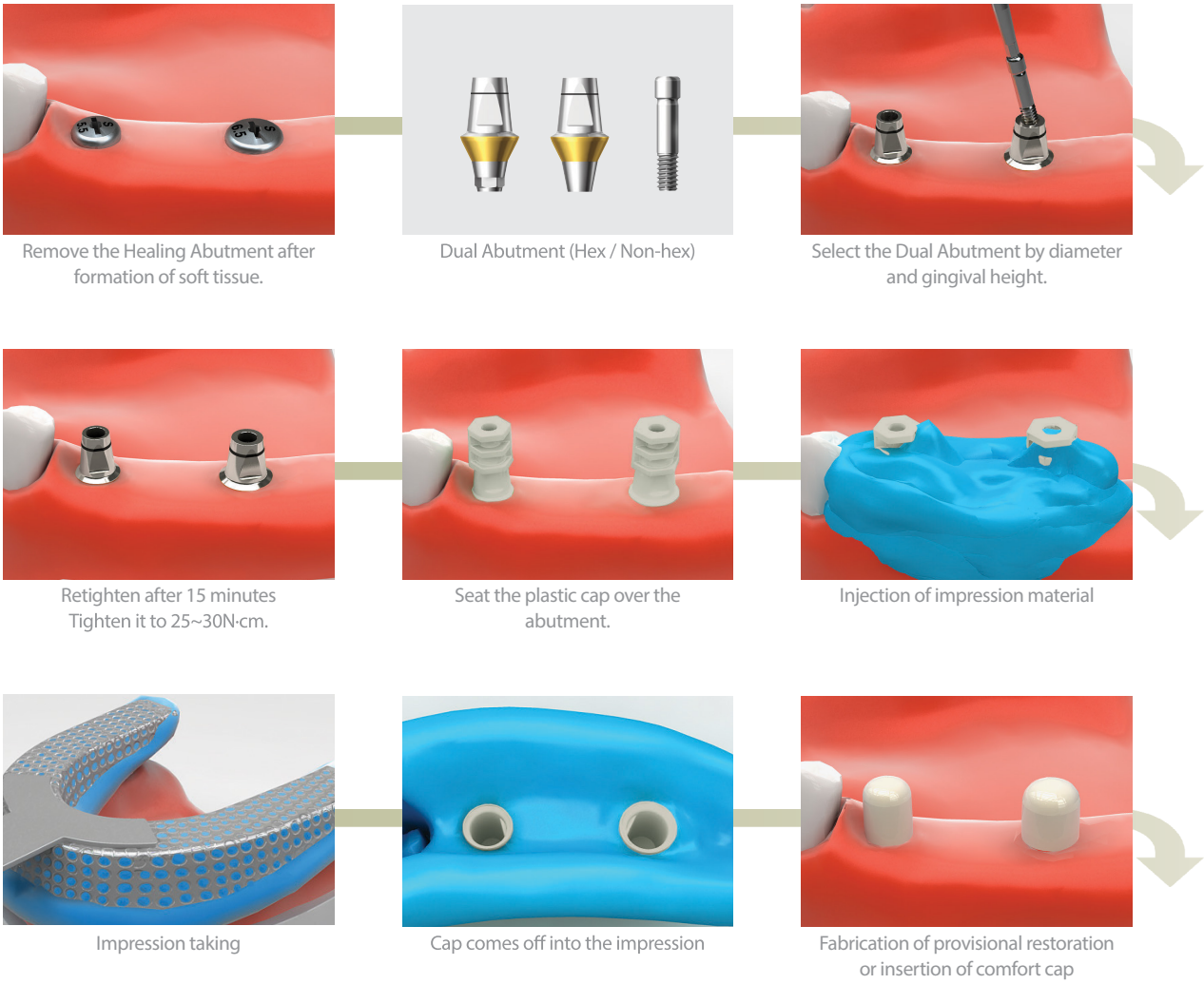
# Abutment Level- Dual Abutment

[Multiple Units]

## Clinical Procedure



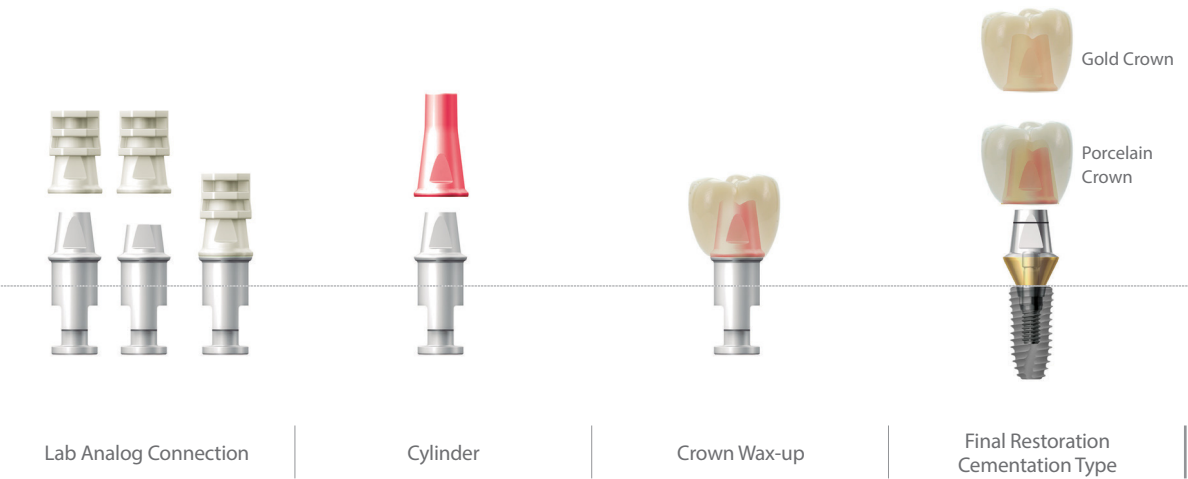
## Chairside



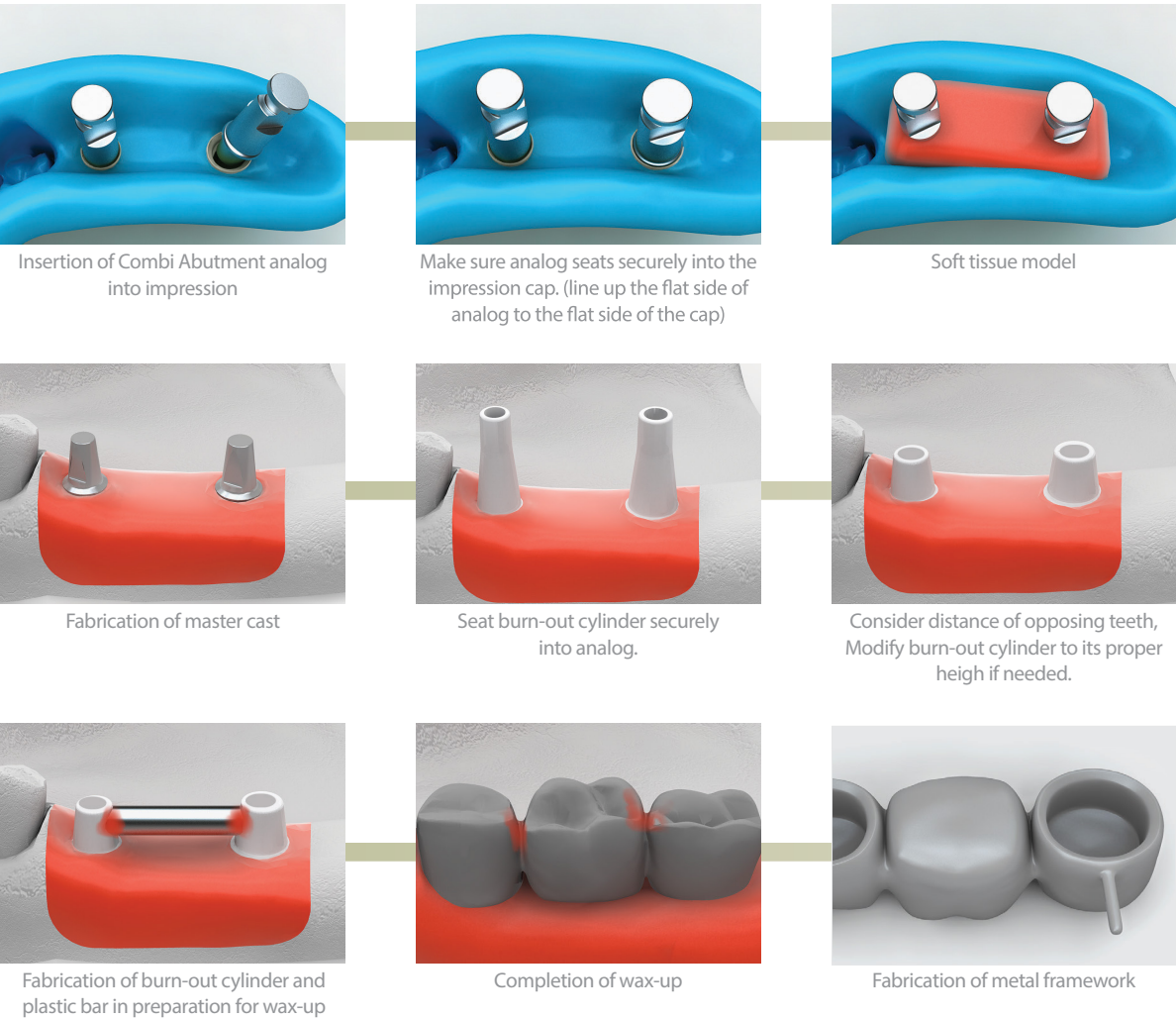
# Abutment Level- Dual Abutment

[Multiple Units]

## Laboratory Procedure

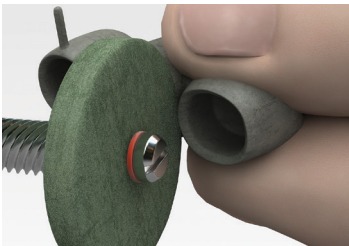


## LabSide

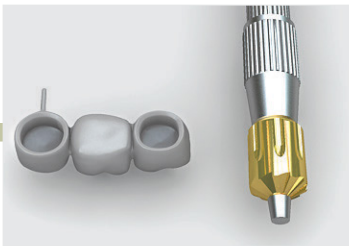


# Abutment Level- Dual Abutment

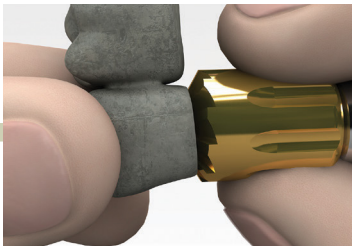
[Multiple Units]



Trimming of the extended margin by using the rubber wheel



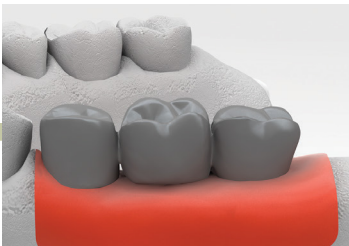
Metal framework and reamer



Reamer is used to eliminate "Lip" caused by 'snap-on' mechanism.



Metal framework after removal of "Lip"



Metal framework

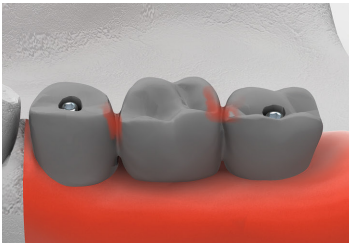


Porcelain build-up

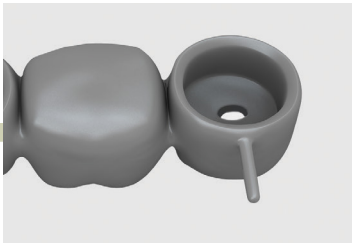
**SCRIP:** Once an access hole has been created, it can be converted to a SCRIP (Screw & Cemented Retained Prosthesis).



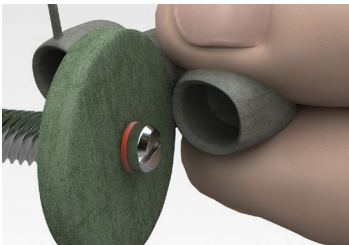
Final prosthesis



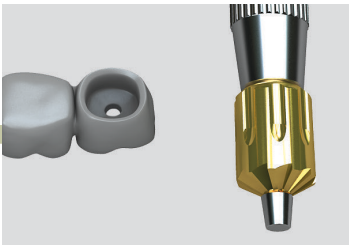
Access hole is made when burn-out cylinder is used to do the wax-up.



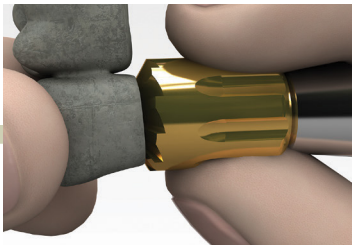
Extended margin around the metal framework due to 'snap-on' mechanism



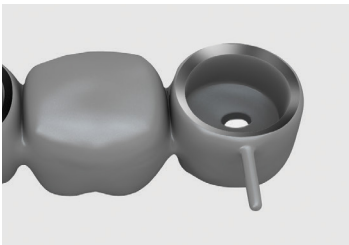
Trim extended margin by rubber wheel



Metal framework and reamer



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



Metal framework after removal of "Lip"



Metal framework



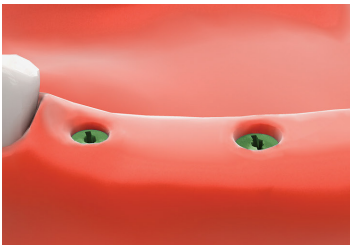
Final prosthesis



# Abutment Level- Combi Abutment

[Multiple Units]

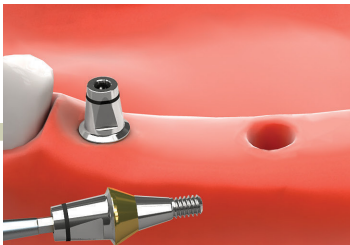
## Chairside



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.

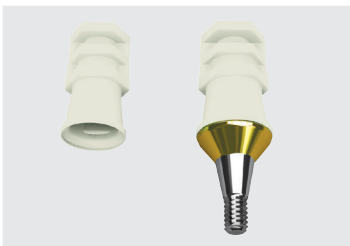
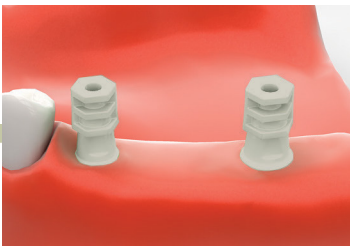
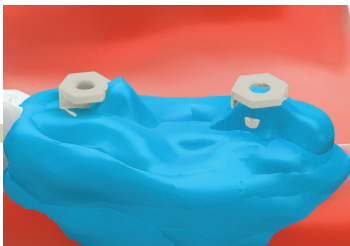


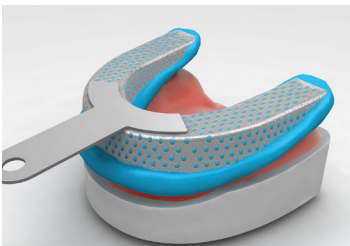
Image of combi Impression coping and abutment assembly



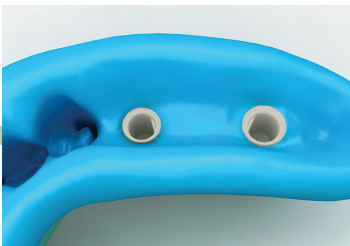
Snap-on the plastic impression coping with the same sized diameter abutment



Impression taking  
Injection of impression material



Impression taking

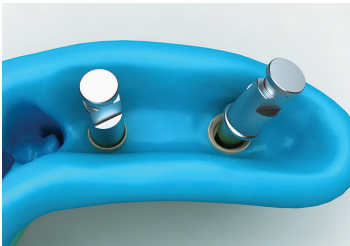


Inner-surface of impression

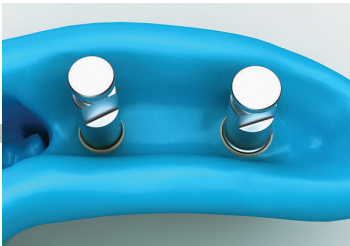


Fabrication of provisional restoration or  
insertion of comfort cap

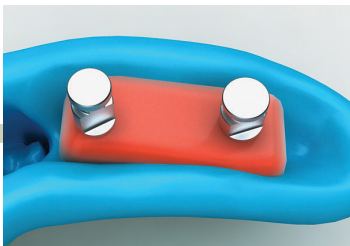
## LabSide



Seating of Lab analog



Confirm analog is secured in snap cap



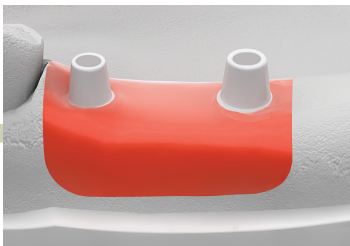
Soft tissue model



Fabrication of master cast



Placement of burn-out cylinder



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

# Abutment Level- Combi Abutment

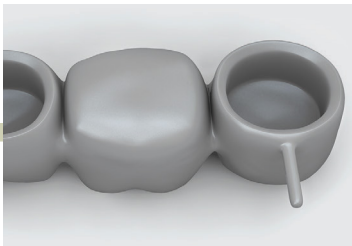
[Multiple Units]



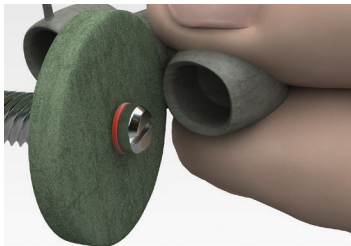
Connect the plastic bar in the middle of the trimmed burn-out cylinders to help support the resin pattern. Wax pattern may have shrinkage.



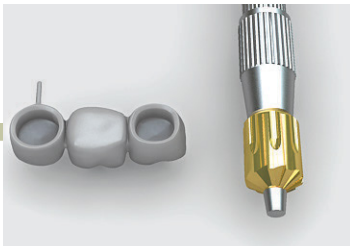
Wax-up



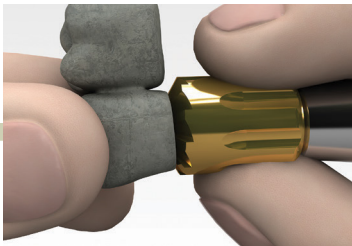
Completed framework



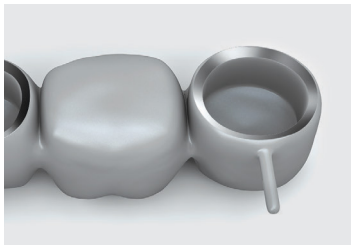
Trimming the extended margin with a rubber wheel



Metal framework and reamer



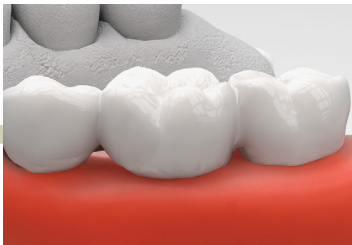
Removal of lip remnant with reamer caused by 'snap-on' mechanism



Metal Framework after removal of "Lip"



Metal coping adaptation (Completed framework)



Porcelain build-up final prosthesis

## Chairside



Insertion of final prosthesis and occlusal adjustment

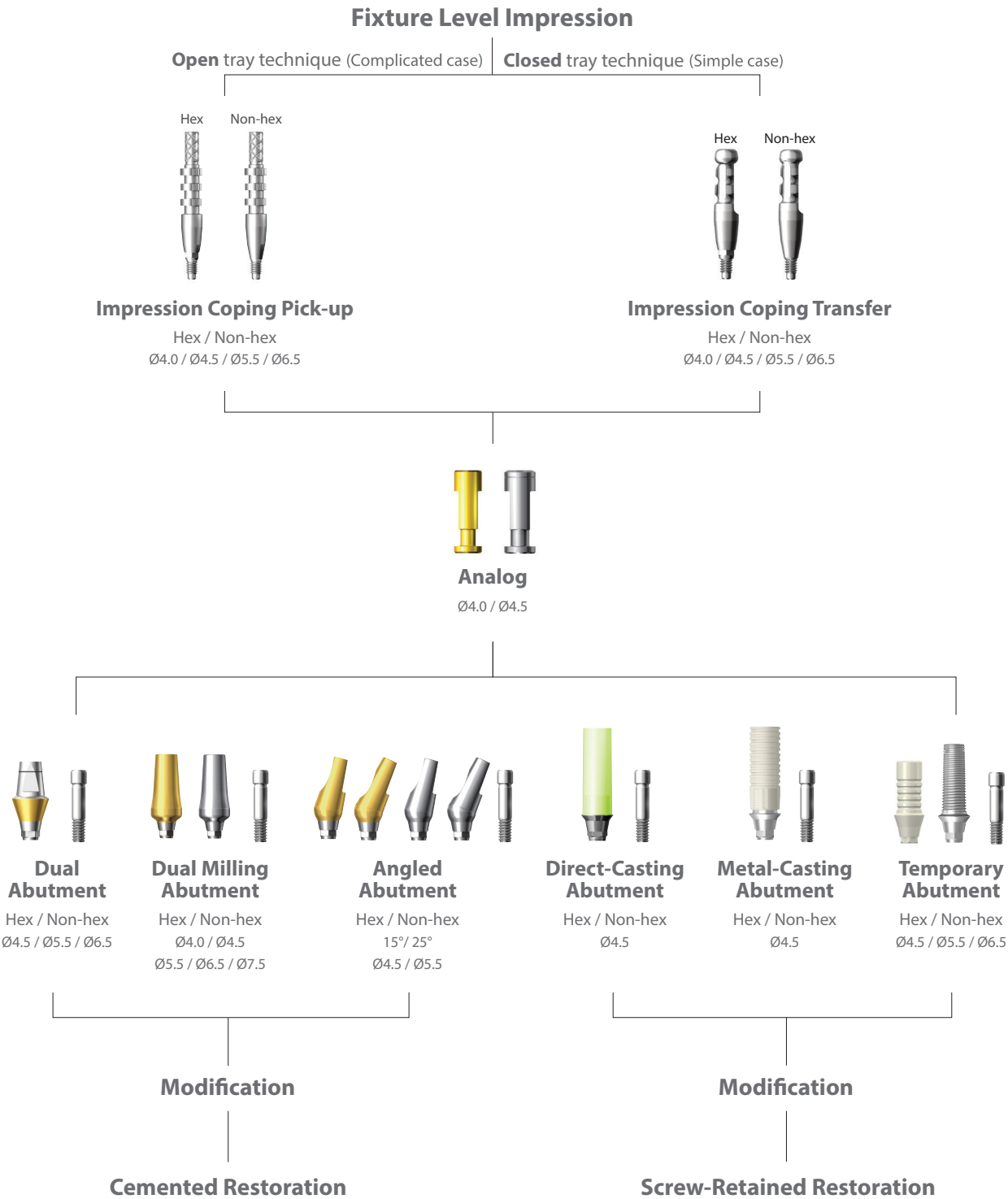
\* If the combi analog is trimmed due to limited inter-occlusal space in the lab, make a reduction jig. Then a slight modify of the abutment in the oral cavity may be necessary to the height of the jig.



# Prosthetic Procedure 2

Impression Technique and Restoration Selection

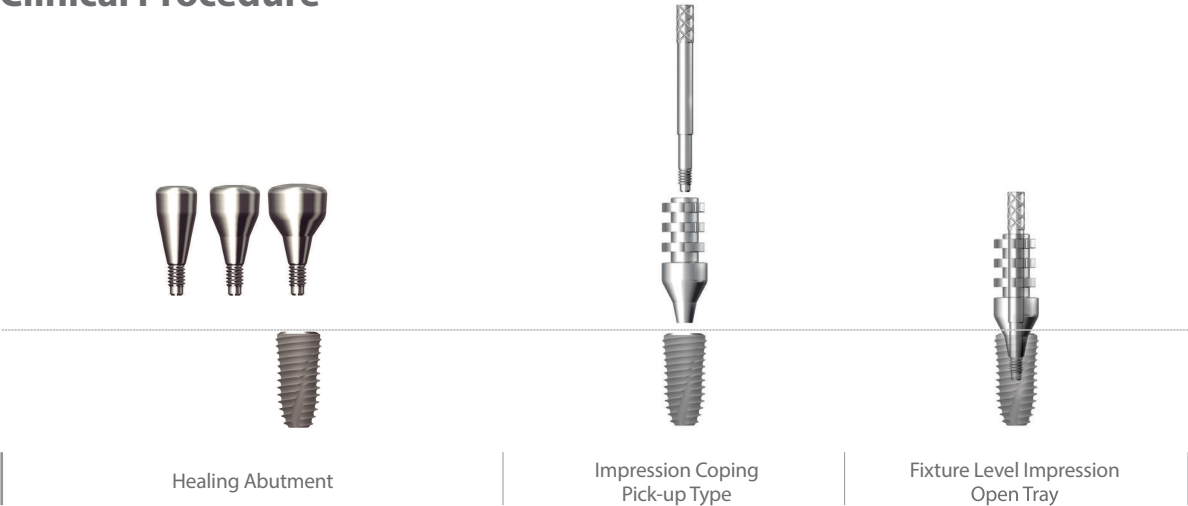
## Dual / Milling / Angled / Direct-Casting / Metal-Casting / Temporary (Plastic & Ti) Abutment



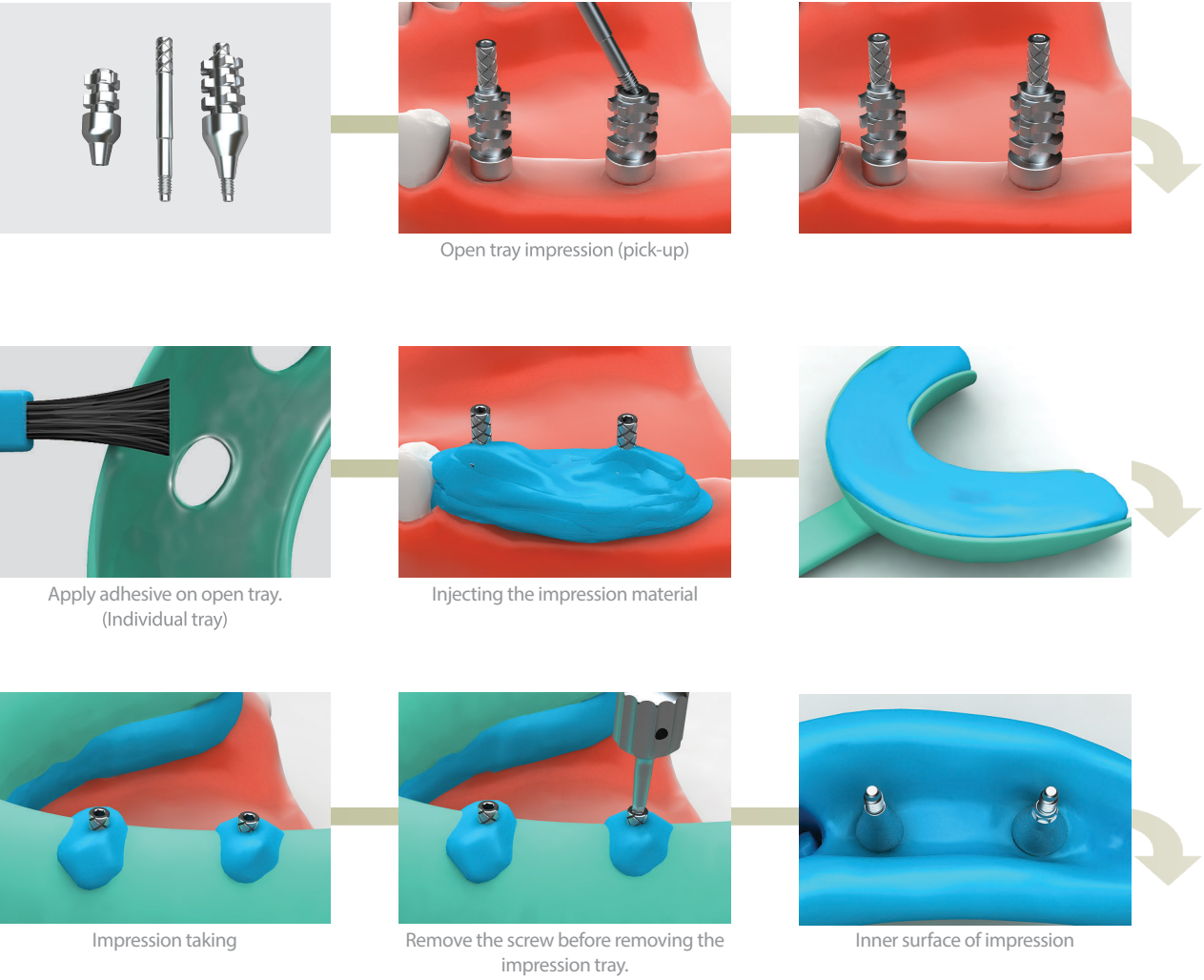
# Fixture Level [Pick-up Type]- Dual Abutment

[Multiple Units]

## Clinical Procedure



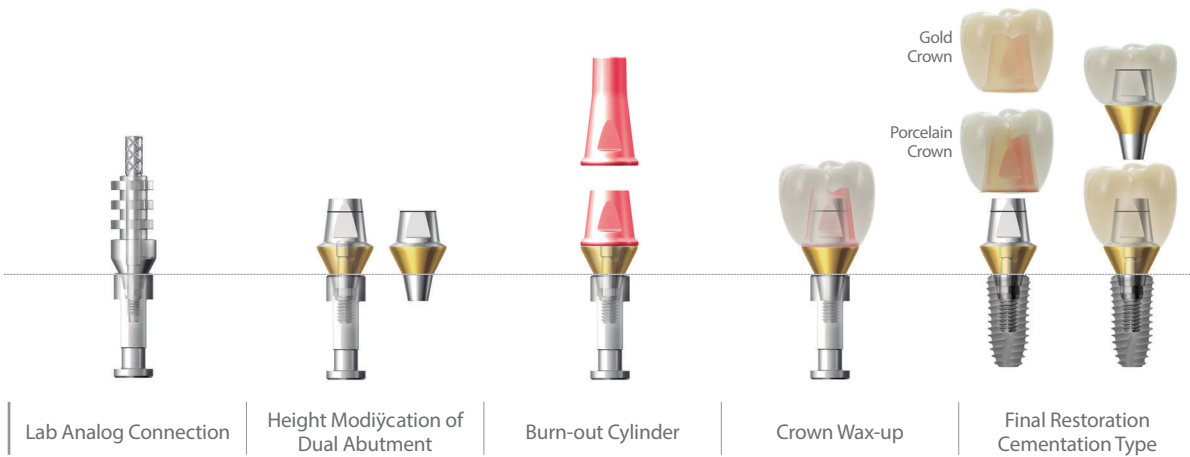
## Chairside



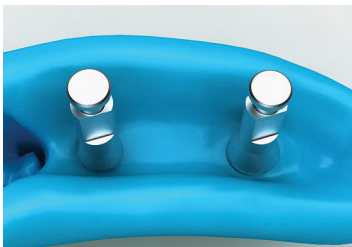
# Fixture Level [Pick-up Type]- Dual Abutment

[Multiple Units]

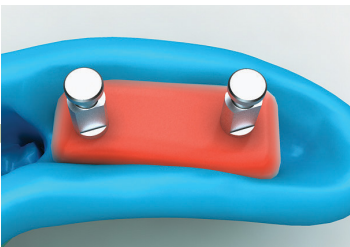
## Laboratory Procedure



## Labside



Connect lab analog with impression coping.



Soft tissue model



Fabrication of master cast



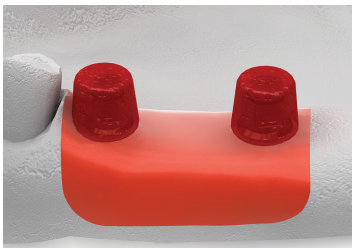
Connect a proper abutment



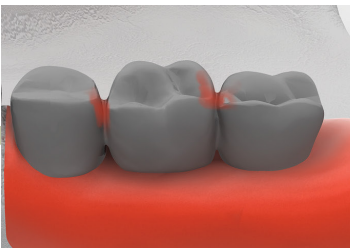
After surveying abutment milling is possible if necessary.



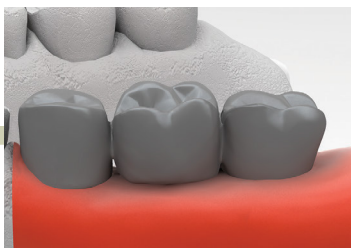
Fabrication of positioning jig



Fabrication of the cap with pattern resin



Wax-up



Metal framework

# Fixture Level [Pick-up Type]- Dual Abutment

[Multiple Units]

## Chairside



Final prosthesis



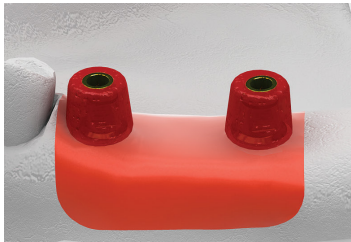
Use positioning jig to transfer the abutment in model to oral cavity then tighten it to 25~30N·cm. Retighten after 15 minutes.



Insertion of the final prosthesis and occlusal adjustment

\* 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.

## SCR- Labside



Formation of access hole with long transfer coping screw



Wax-up



Metal framework

## SCR- 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 adjustment of occlusion

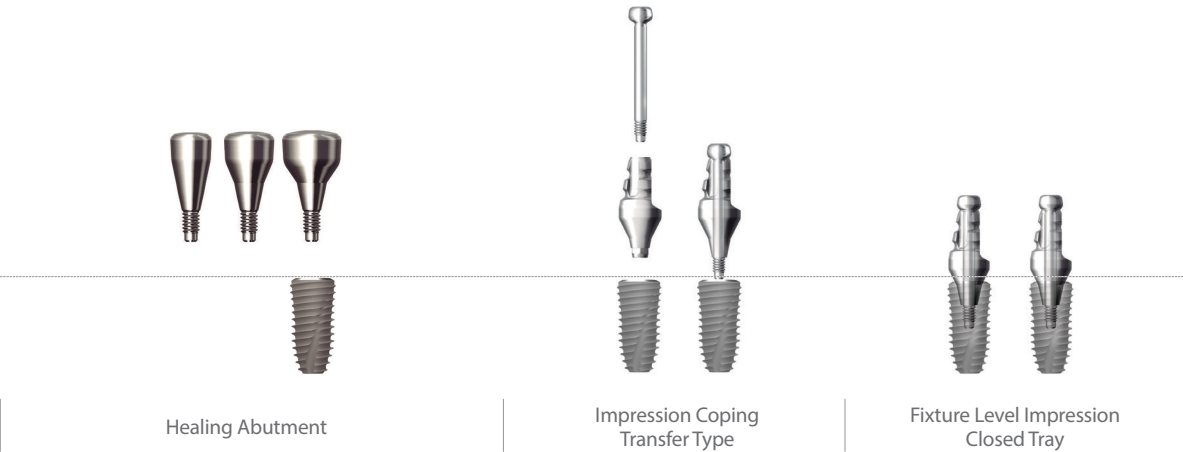
\* In the process of seating the prosthesis, the prosthesis can be rebounded by gingival tissue. In this case it is advised to apply occlusal load on the prosthesis for 10~15 minutes.



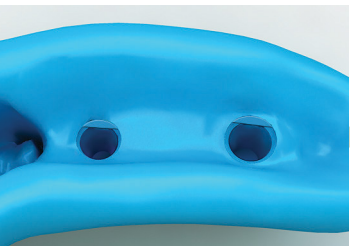
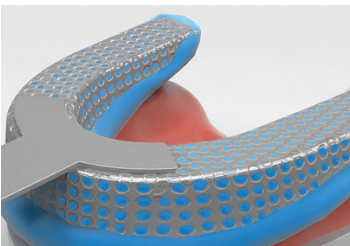
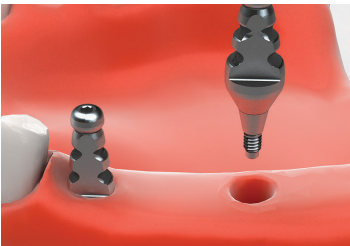
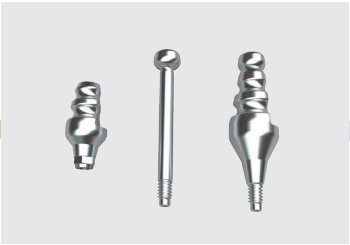
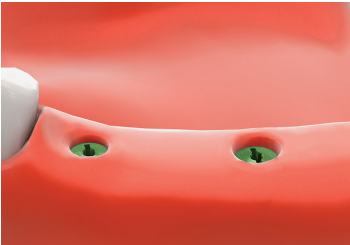
# Fixture Level [Transfer Type]- Dual Abutment

[Multiple Units]

## Clinical Procedure



## Chairside



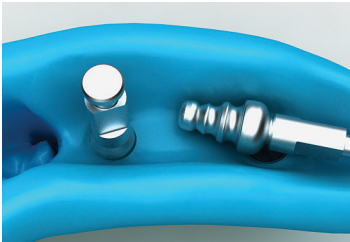
# Fixture Level [Transfer Type]- Dual Abutment

[Multiple Units]

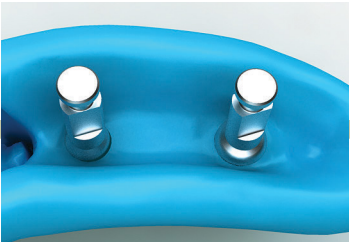
## Laboratory Procedure



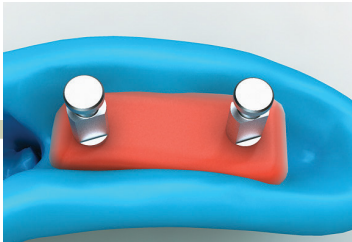
## Labside



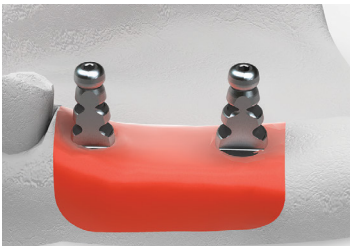
Impression coping and analog connection. And insert impression coping into the impression.



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)

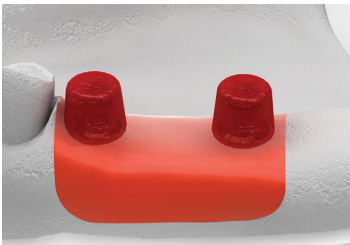


Fabrication of positioning jig

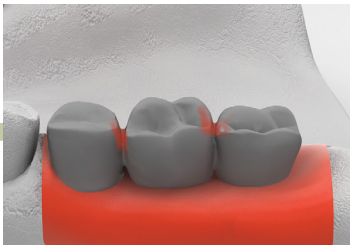


# Fixture Level [Transfer Type]- Dual Abutment

[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



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



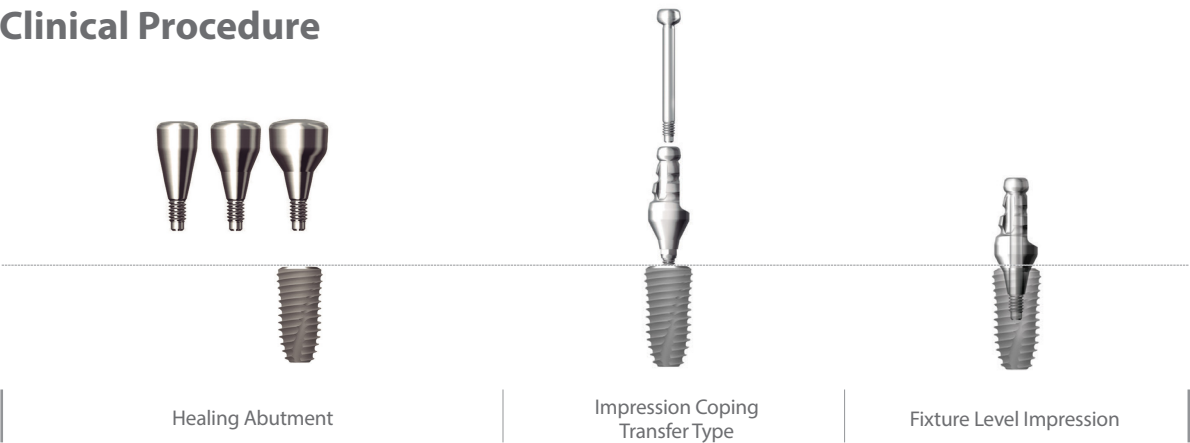
Insertion of final prosthesis and occlusal adjustment. Place wax into opening of the abutment prior to sealing with composite.

\* 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.

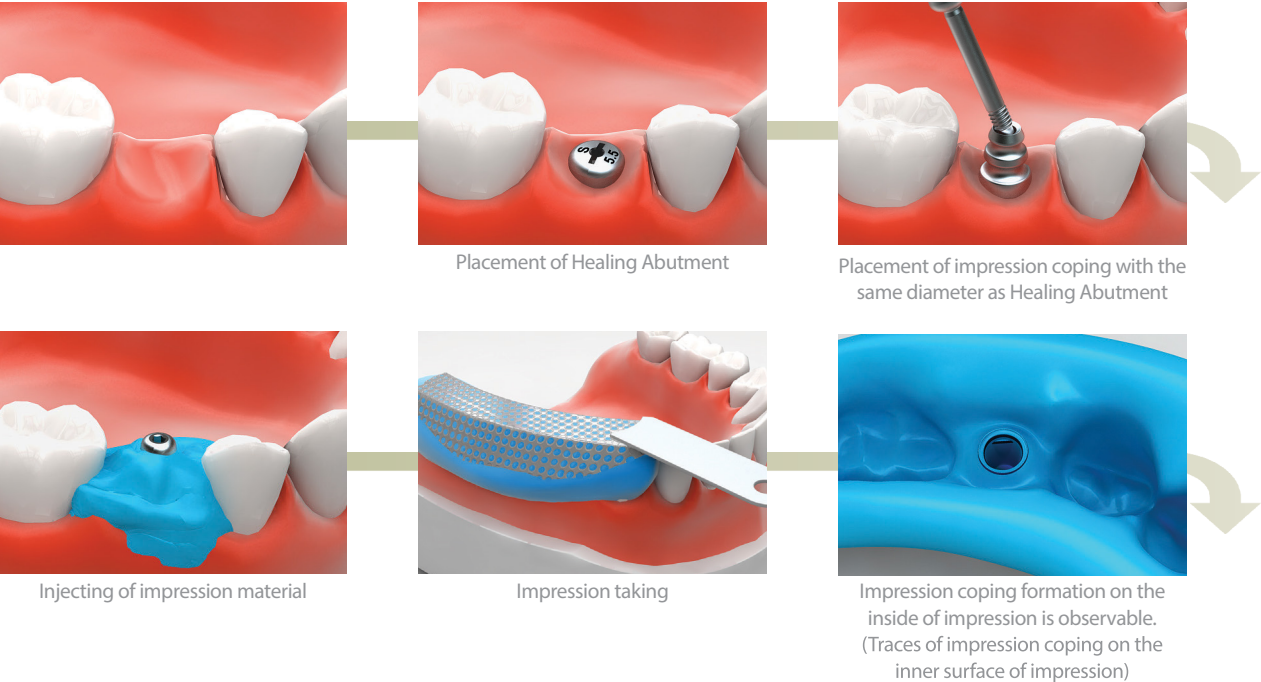
# Fixture Level [Transfer Type]- Dual Milling Abutment

[Single Unit]

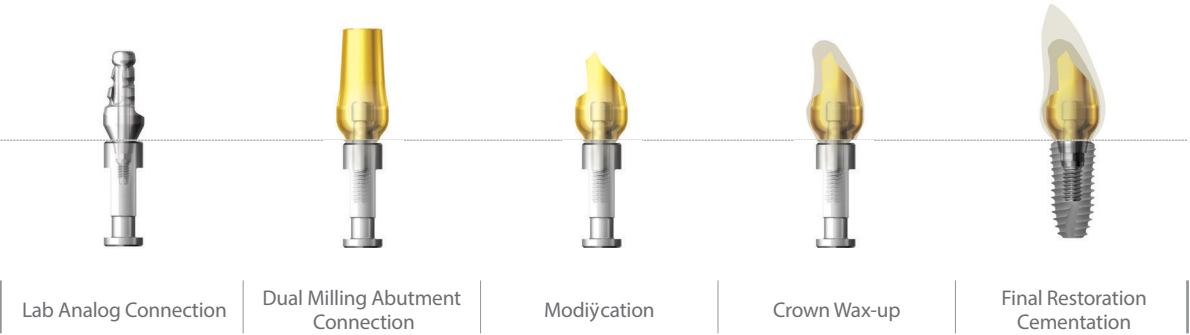
## Clinical Procedure



## Chairside



## Laboratory Procedure



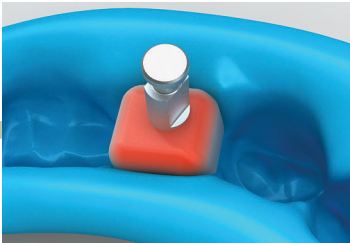
# Fixture Level [Transfer Type]- Dual Milling Abutment

[Single Unit]

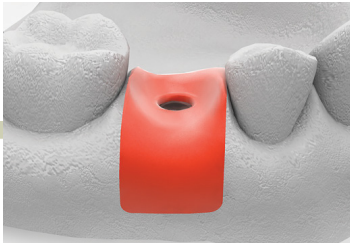
## Labside



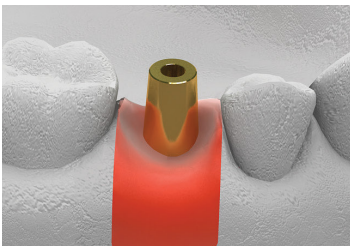
Impression coping and analog connection. And insert impression coping into the impression.



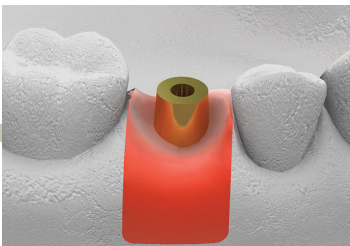
Soft tissue model



Master cast



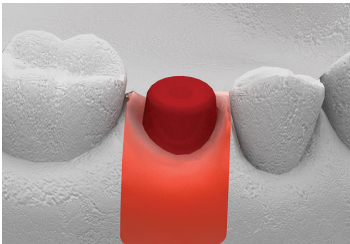
Selection of appropriate Dual Milling Abutment



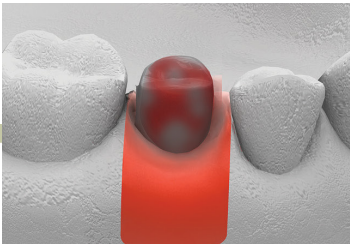
Abutment after milling process



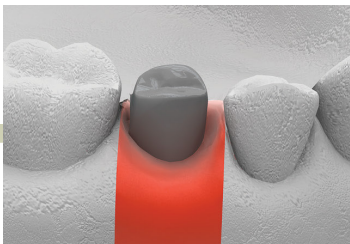
Fabrication of positioning jig



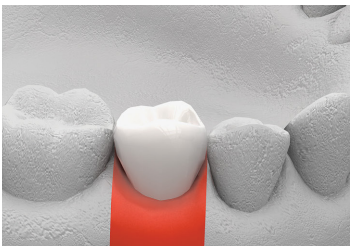
Fabrication of pattern resin cap



Completion of wax-up



Metal framework



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.



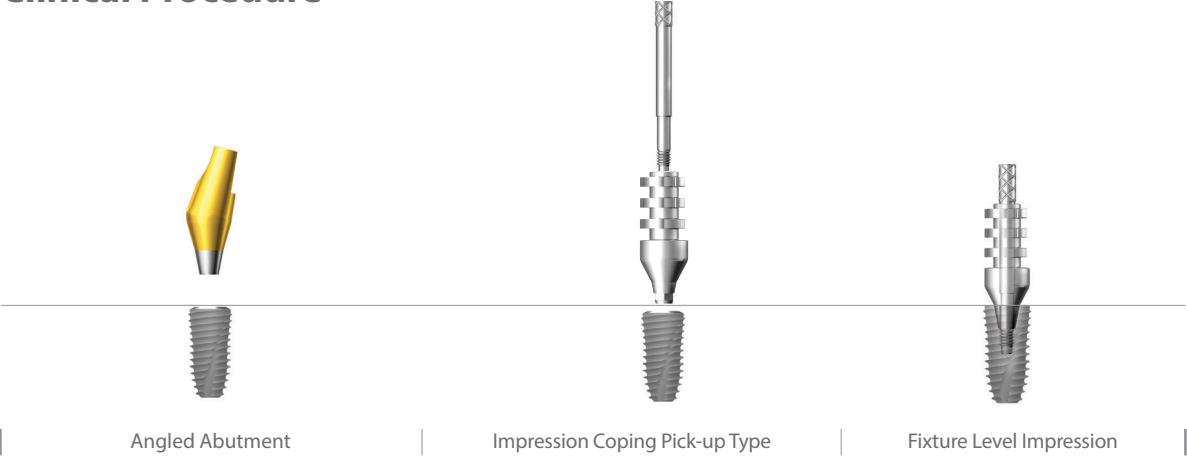
Insertion of final prosthesis and occlusal adjustment

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

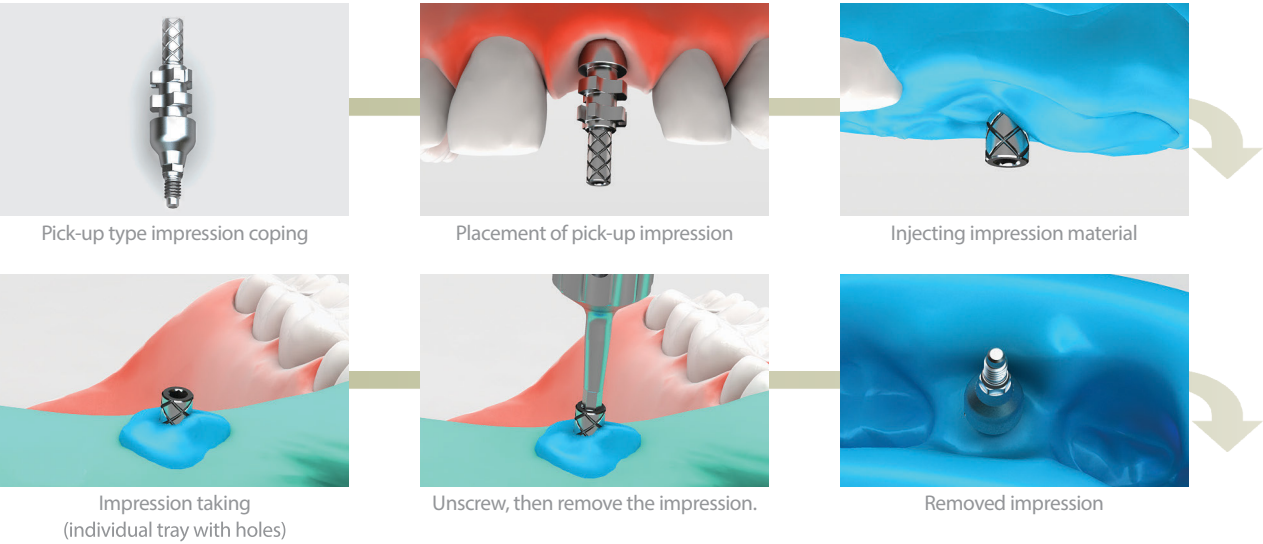
# Fixture Level [Pick-up Type]- **Angled Abutment**

[Single Unit]

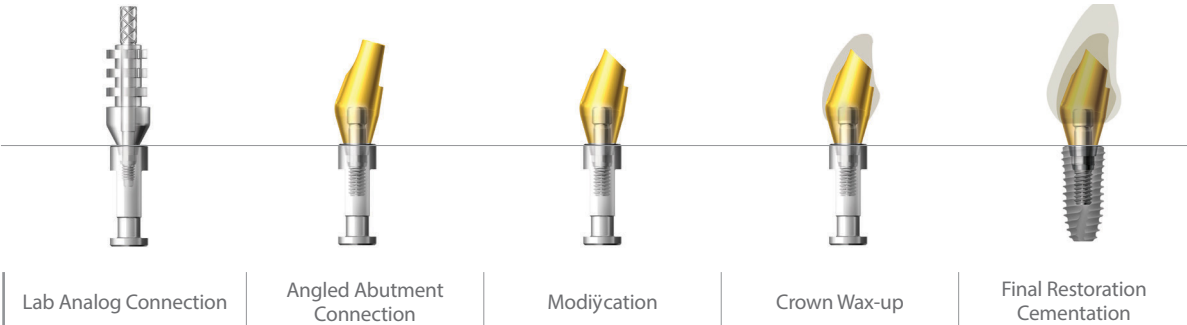
## Clinical Procedure



## Chairside



## Laboratory Procedure





# Fixture Level [Pick-up Type]- Angled Abutment

[Single Unit]

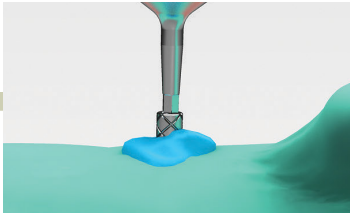
## Labside



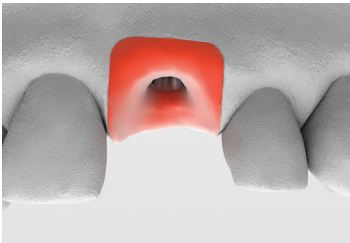
Impression coping with analog connections



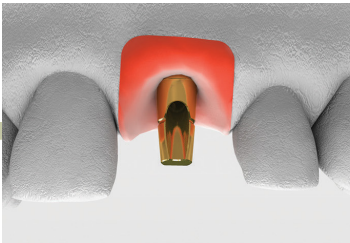
Soft tissue formation and fabrication of master model



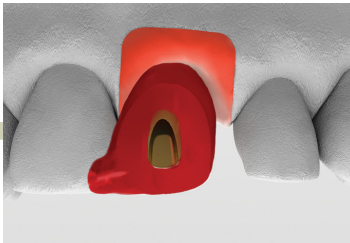
Unscrew then separate impression from the model.



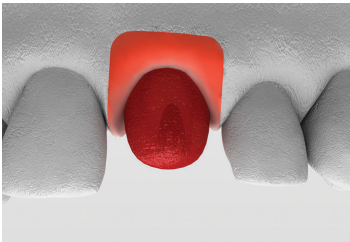
Master cast



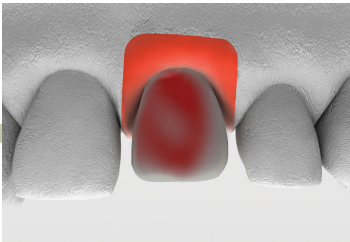
Select an Angled Abutment.



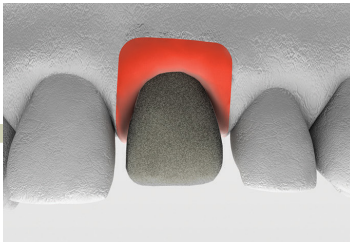
Modification of Angled Abutment & fabrication of positioning jig



Fabrication of pattern resin cap

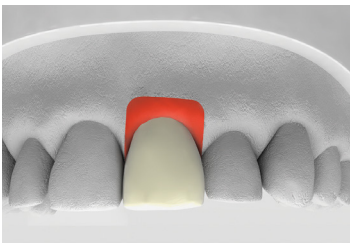


Wax-up

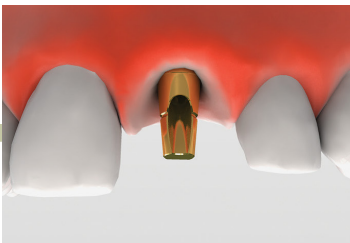


Metal or zirconia framework

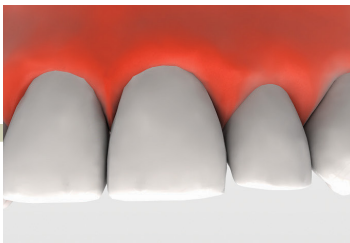
## Chairside



Final prosthesis



Insertion of the Angled Abutment using positioning jig



Insertion of final prosthesis and occlusal adjustment



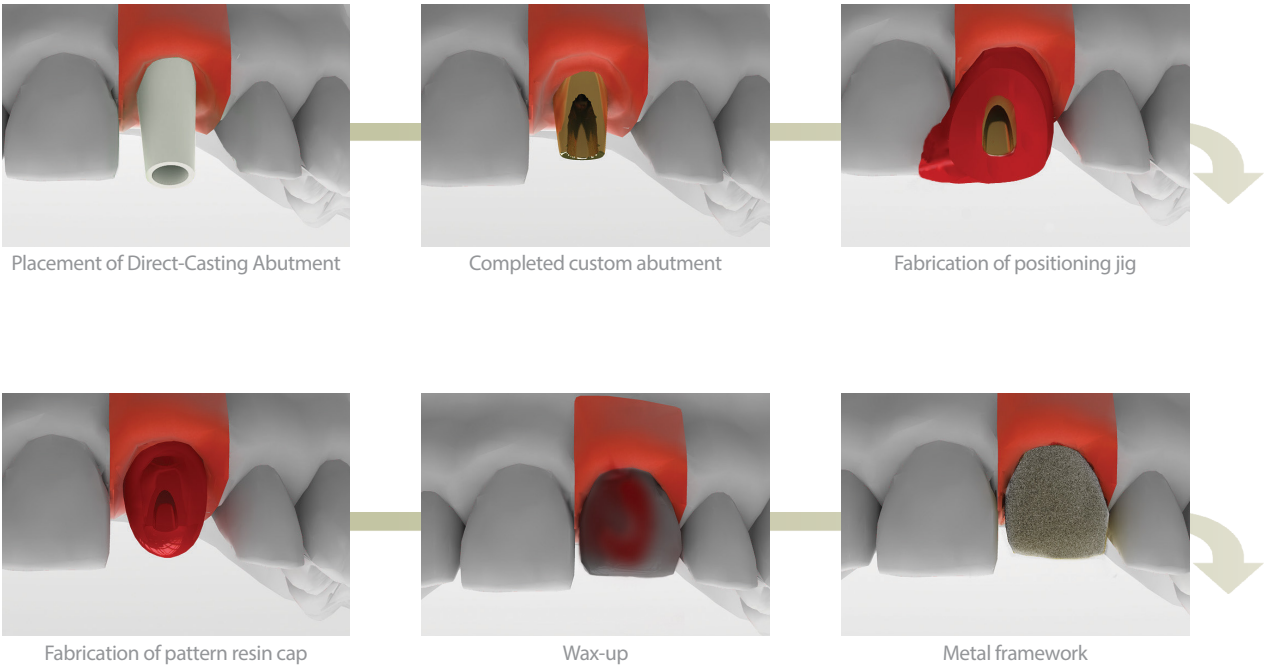
# Fixture Level- Direct-Casting Abutment

[Single Unit]

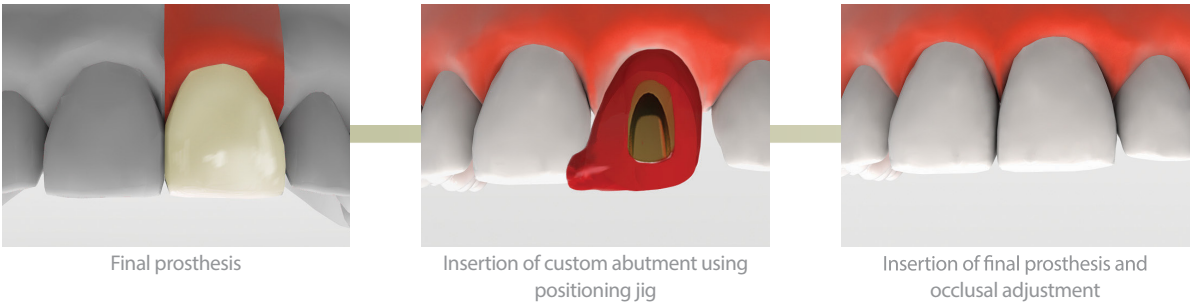
## Laboratory Procedure



## Labside



## Chairside



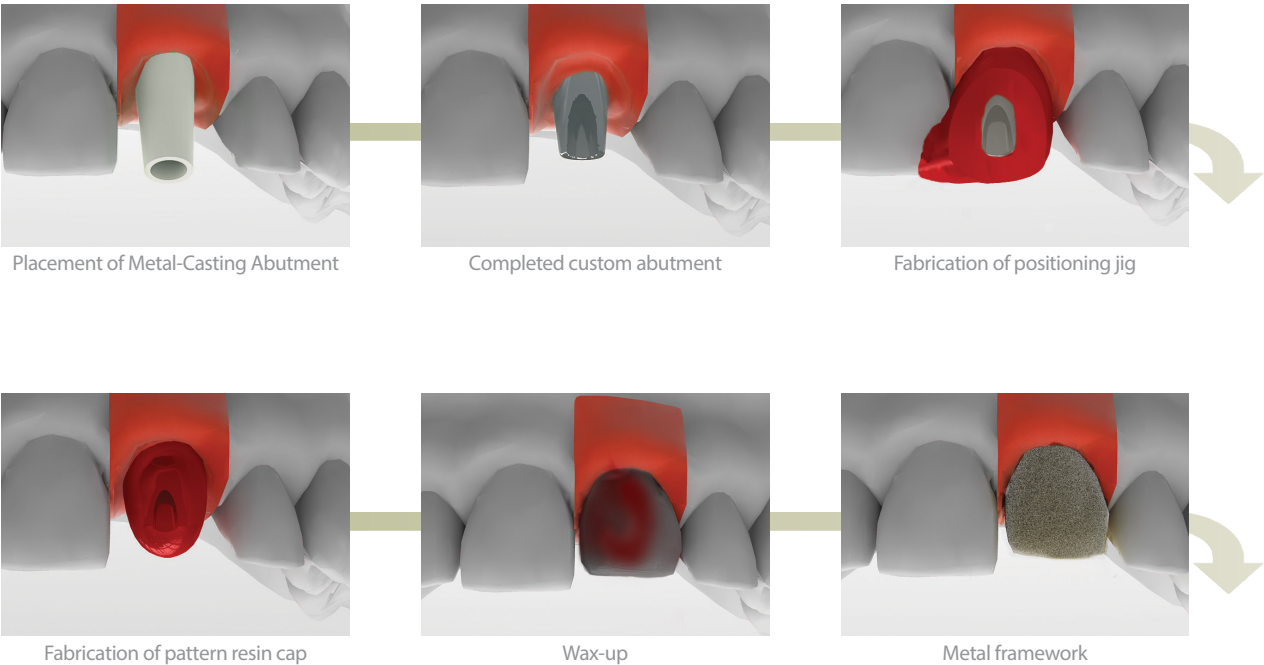
# Fixture Level- Metal-Casting Abutment

[Single Unit]

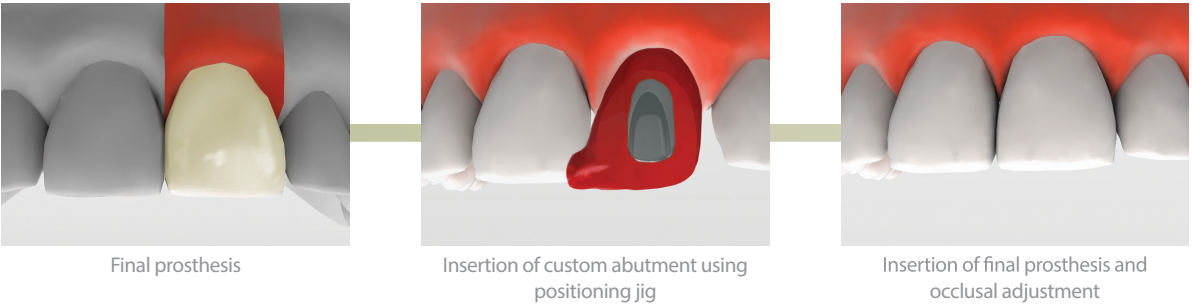
## Laboratory Procedure



## Labside

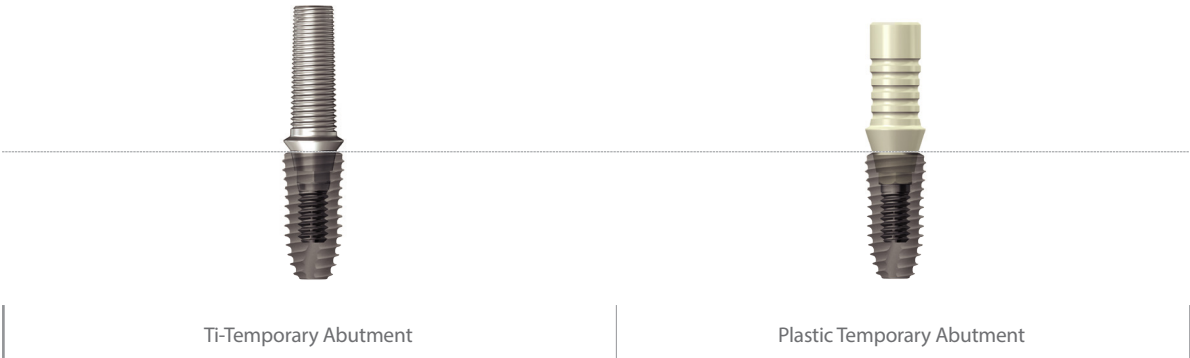


## Chairside



# Fixture Level [Pick-up Type]- Temporary Abutment

[Single Unit]



<Using Ti Abutment>



<Using Plastic Abutment>



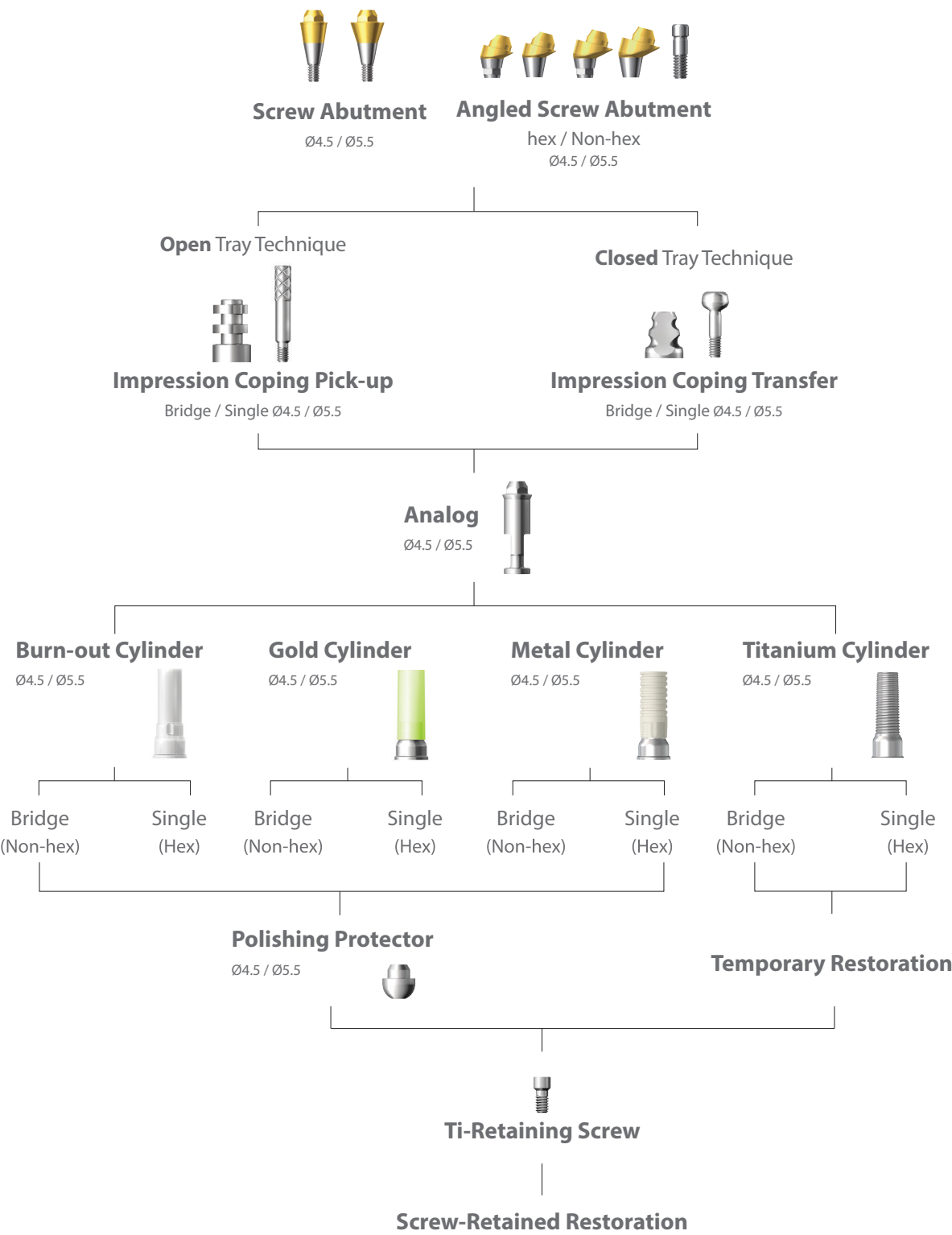
Considering the opposing teeth before seating the Temporary Abutment, trim off the abutment as needed and complete the Temporary Abutment prosthesis with direct resin.

# Prosthetic Procedure 3

Impression Technique and Restoration Selection

## Screw Abutment

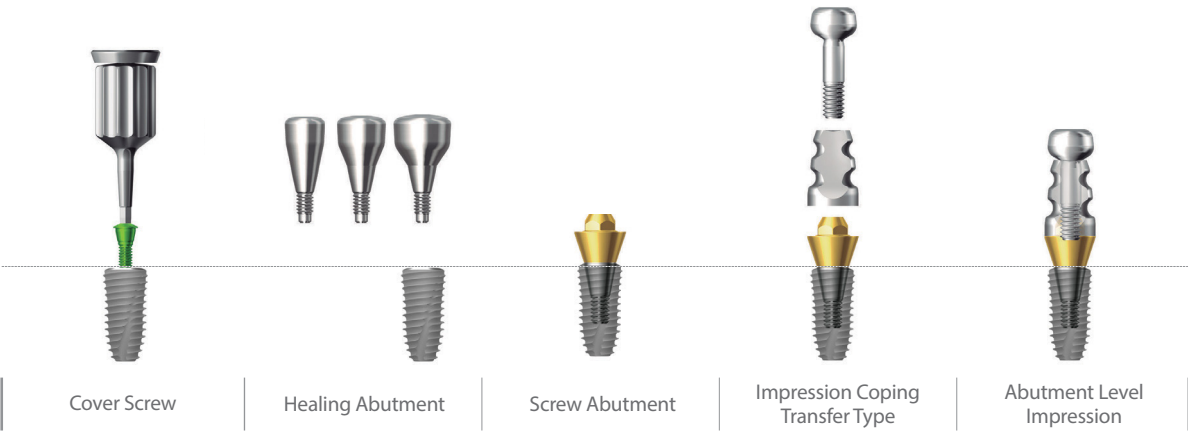
### Abutment Level Impression



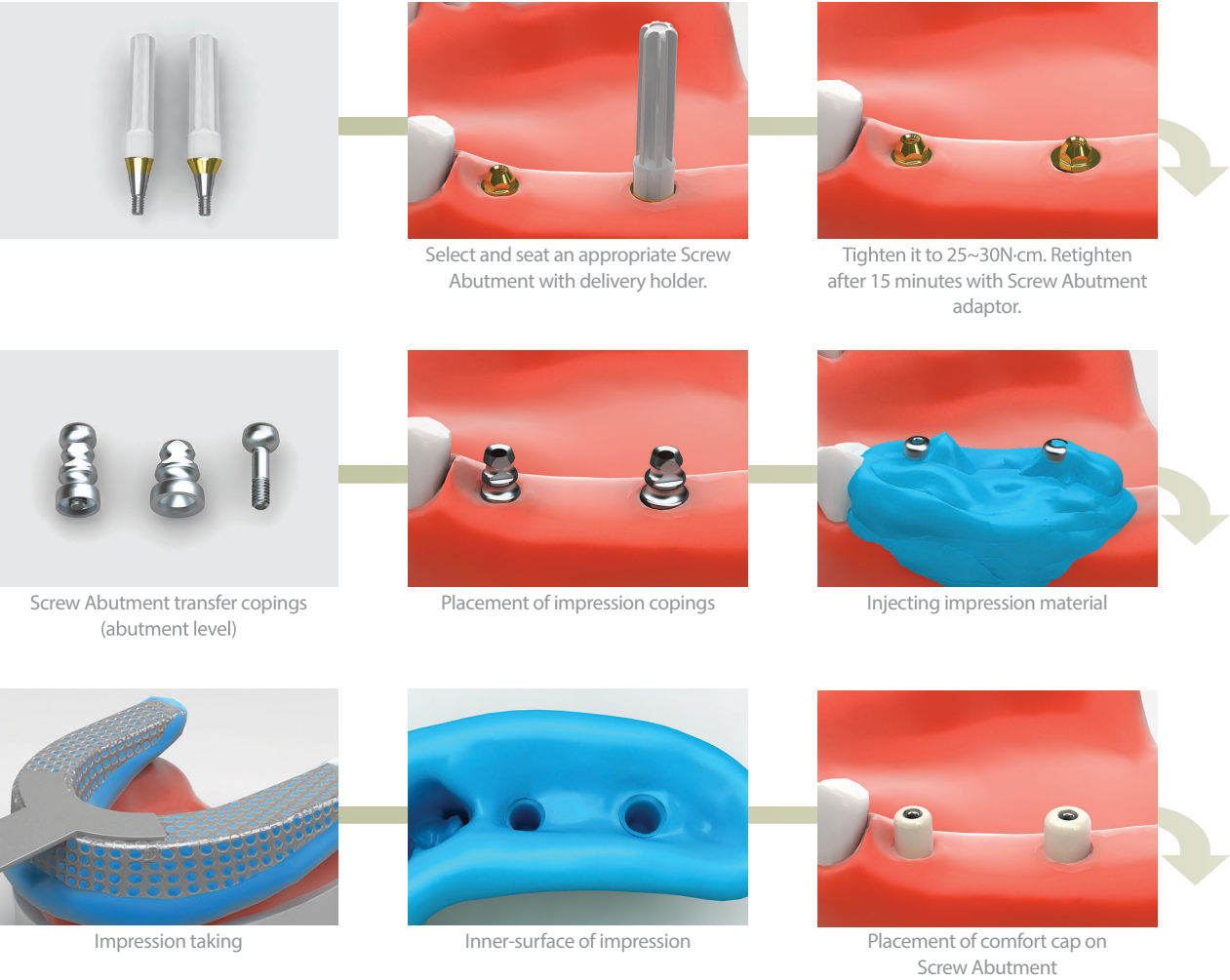
# Abutment Level [Transfer Type]- Screw Abutment

[Multiple Units]

## Clinical Procedure



## Chairside





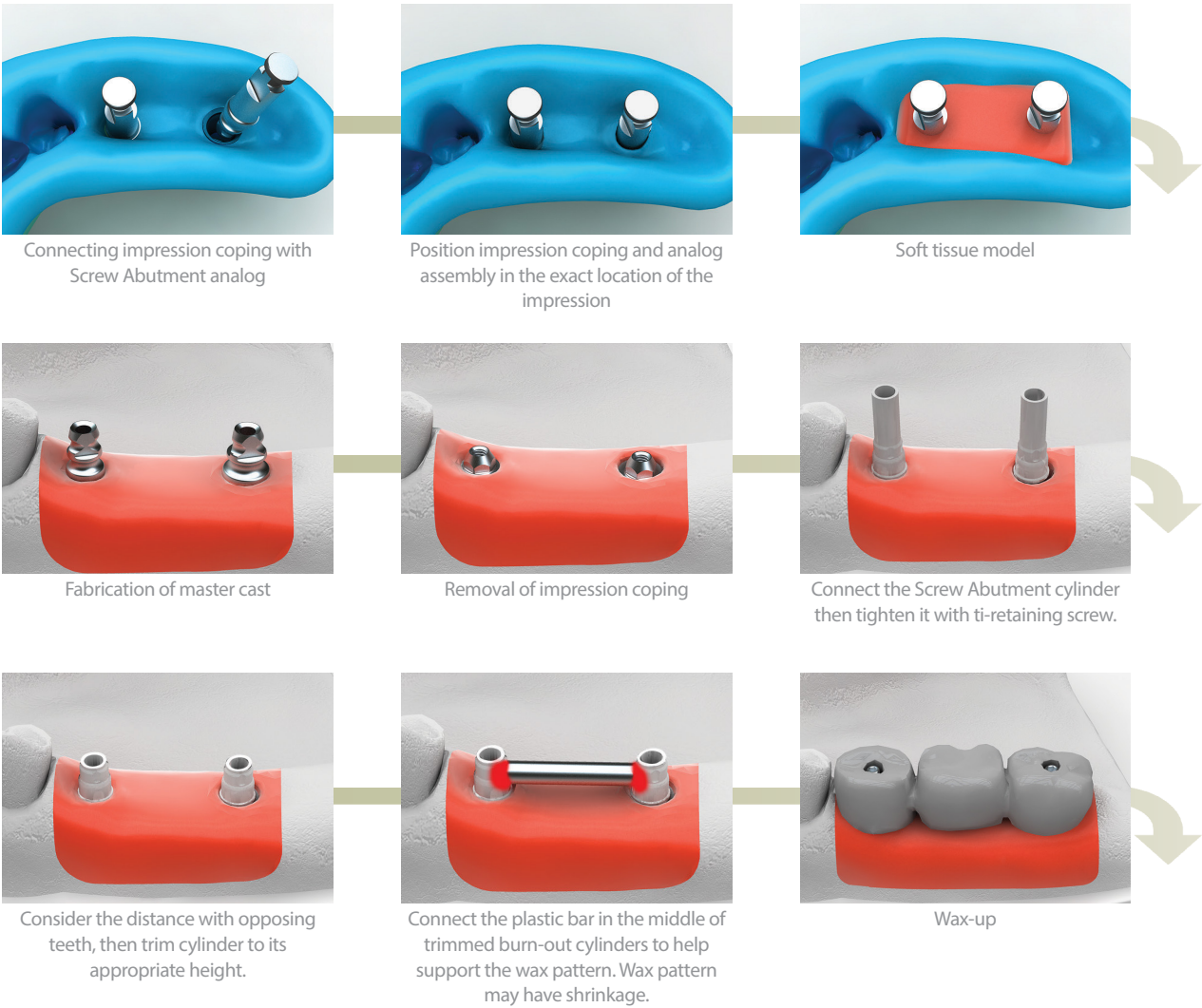
# Abutment Level [Transfer Type]- Screw Abutment

[Multiple Units]

## Laboratory Procedure



## Labside

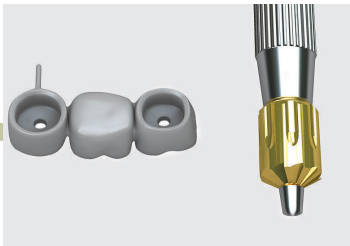


# Abutment Level [Transfer Type]- Screw Abutment

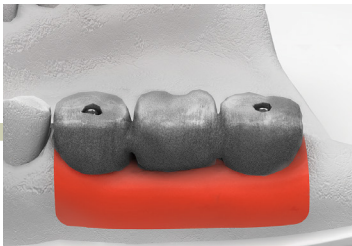
[Multiple Units]



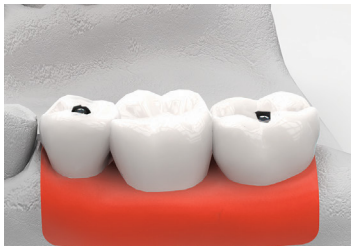
Metal framework



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 (10N-cm).

# Cementation Repair Method (SCRCP)

[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 loosening 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  
oral cavity.



Tighten the prosthesis with  
25~30N-cm by a screw driver.  
\* It is recommended that the abutment screw is  
retightened after 15 minutes.



Fill the access hole with cotton.



Fill the access hole with resin.



Final prosthesis

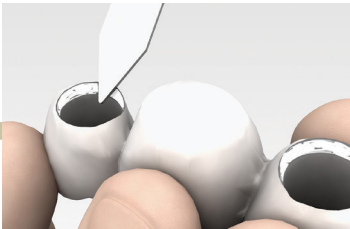
# Cementation Repair Method (SCRP)

[Screw & Cement Retained Prosthesis]

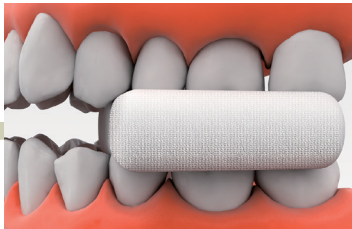
## Prosthesis Separation from Abutment due to Cement Loss



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



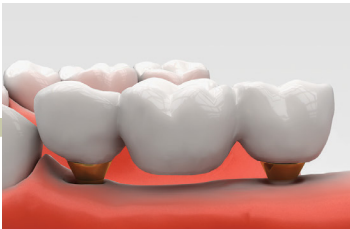
Apply cement to the prosthesis.



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.

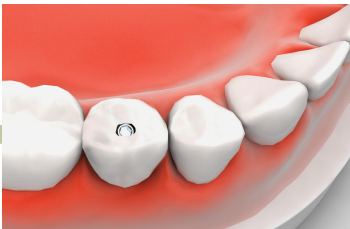


Tighten the prosthesis with 25~30N·cm with a screw driver.

## Adding to the Interproximal Contact Surface due to Prosthesis Loosening



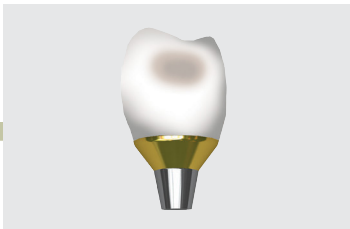
Prosthesis loosening due to contact loosening



Form access hole using bur



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



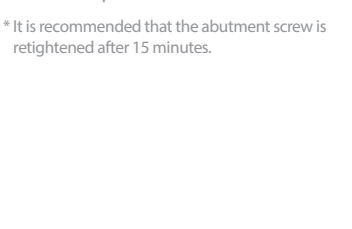
Contact adding with resin on the prepared under space.



Insert the prosthesis in the oral cavity and screw it in. Afterwards, perform light curing, then polish the contact area.



Position the prosthesis in the mouth and tighten the screw with 25~30N·cm, then fill up the access hole.



\* 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



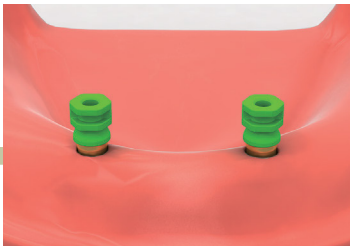


# Positioner

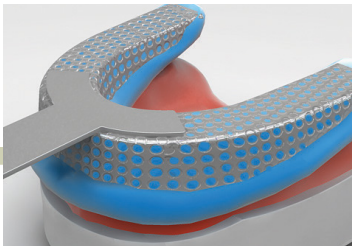
## Chairside



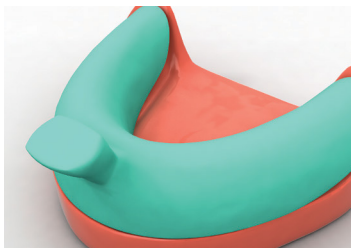
Connect the Positioner Abutment onto the fixture.



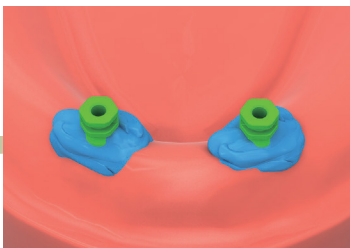
Affix the impression coping on the Positioner Abutment.



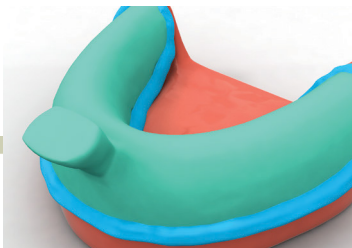
Take Impression for the production of individual tray.



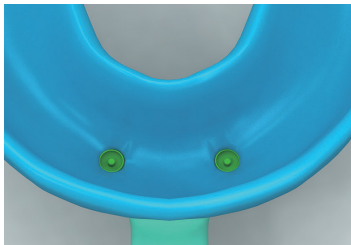
Produce the individual tray for denture impression.



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.

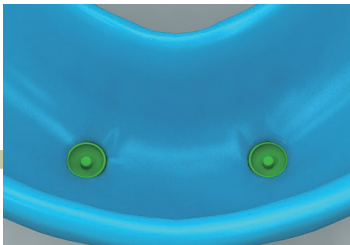
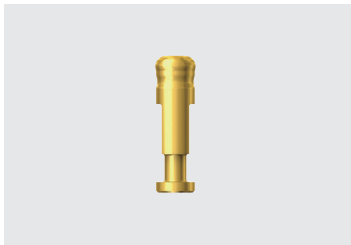
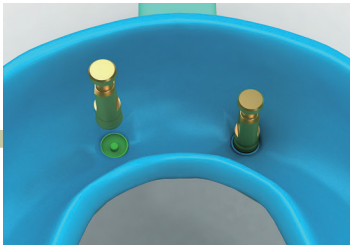


Image of the set final impression (with impression coping)

## Labside



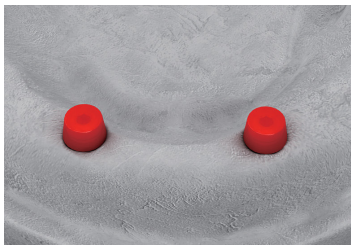
Positioner Analog



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

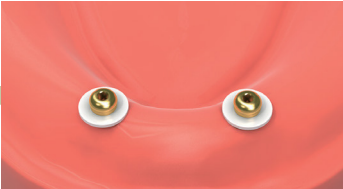
# Positioner

## Case 1

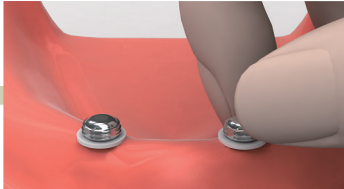
## Chairside



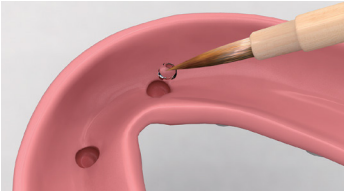
Secure spaces for the female sockets.



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



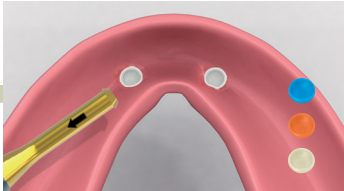
Connect the metal socket onto the Positioner Abutment.



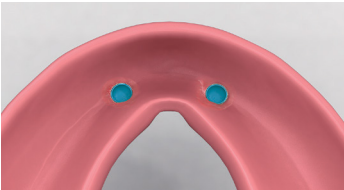
Apply a small amount of resin into the space created for the metal socket.



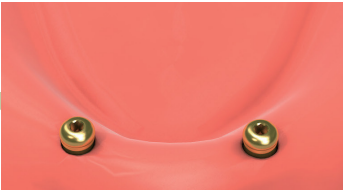
Position the denture in the mouth and wait until the resin is completely set.



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 1000gf).



Remove the denture after the resin is fully set. Image of the denture with the metal socket.



Remove the block out spacer from the patient's mouth.



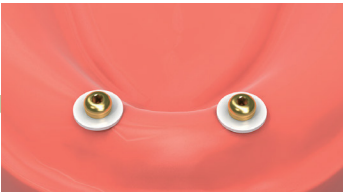
After polishing, the overdenture is completed.

## Case 2

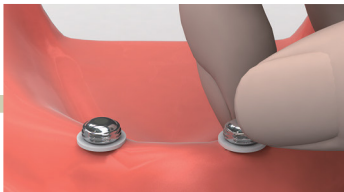
## Chairside



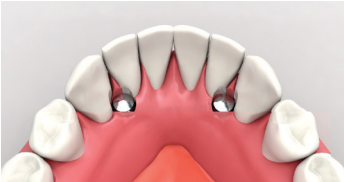
Create holes for the placement of the metal sockets.



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



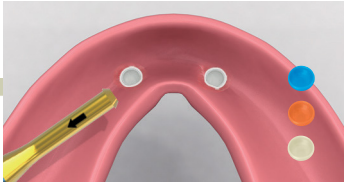
Connect the metal socket onto the Positioner Abutment.



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.

# Ball Attachment

## Case 1

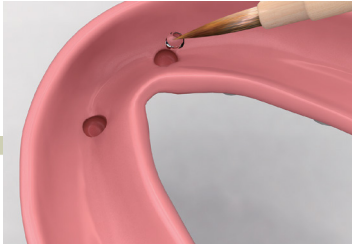


Secure spaces for the female sockets.

## Chairside



Connect the female sockets to the Mini Ball Abutments in the intraoral.



Apply small amount of the resin into the secured area.



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



Female sockets are placed in the denture.

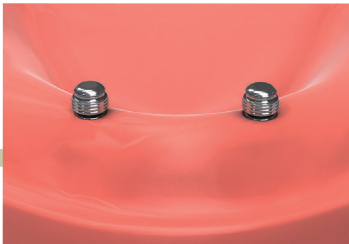


After polishing, the overdenture is completed.

## Case 2



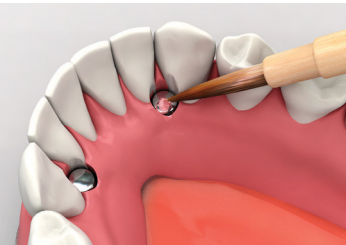
Create holes for the placement of the female sockets.



Connect the female sockets to the Mini Ball Abutments in the intraoral.



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.



Place the female sockets.



Apply resin around the female sockets.

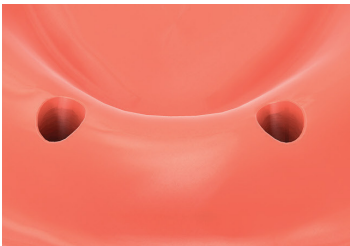


After polishing, the overdenture is completed.

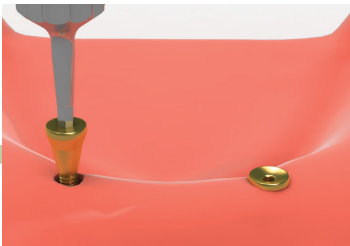


# Magnetic Attachment

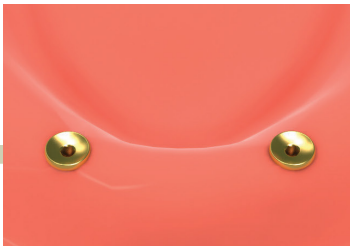
## Chairside



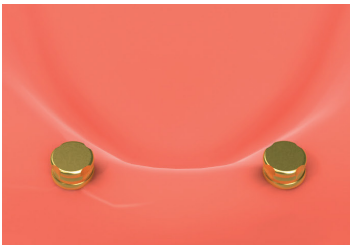
After Healing Abutment removal



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.



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

## Case 1



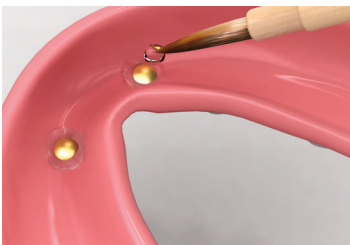
Apply resin on the divot of the denture's inner surface.



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

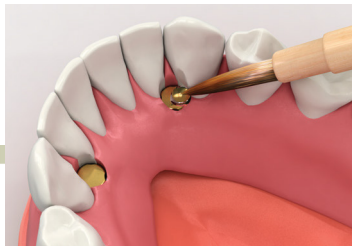
## Case 2



Create holes for the placement of the magnets.



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.



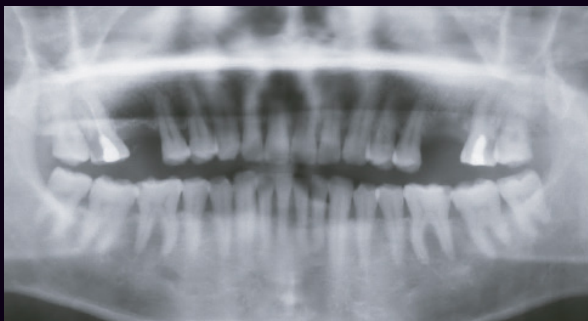
Add the resin around the magnets.



After polishing, the overdenture is completed.



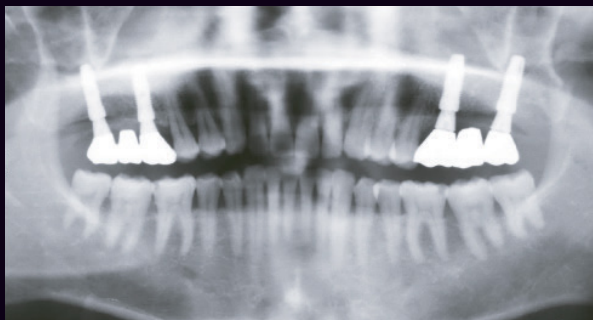
Over \_\_\_\_\_  
**22** Years  
of Long  
Term Data



**Pre-op** 2001.11.10



**Implantation** 2001.11.28



**Final prosthesis** 2002.05.19

## Simple yet Predictable

22 years of Consistent Implant Design with S.L.A. (Sandblasting with Large Grid & Acid Etching)  
Proven Study of Excellent Bone-to-Implant Contact (BIC)

*Reference: Myron Nevins, DDS, et al., Clinical & Histological Evaluations of SLA Dental Implants  
Int J Periodontics Restorative Dent 2017;37:175-181. doi:10.11607/prd.3131*

# Dentium

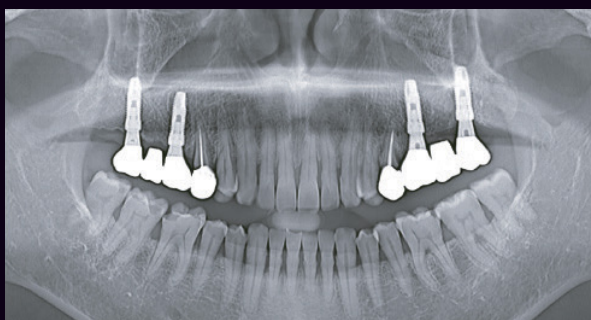
## Long Term Clinical Data



**4 Year Follow-up** 2005.05.23



**11 Year Follow-up** 2013.01.17



**20 Year Follow-up** 2021.04.14

## Efficiency through Simplicity

One Prosthetic Connection for all Dentium (Implantium & SuperLine) Implant System  
One Abutment Screw Fits All Dentium (Implantium & SuperLine) Abutments & Fixture Platform



