

SuperLine
Product / Manual Catalog

SuperLine
Product / Manual Catalog
2018

Dentium
For Dentists By Dentists

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

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SPMC-1805 [Rev.0]

Dentium
For Dentists By Dentists

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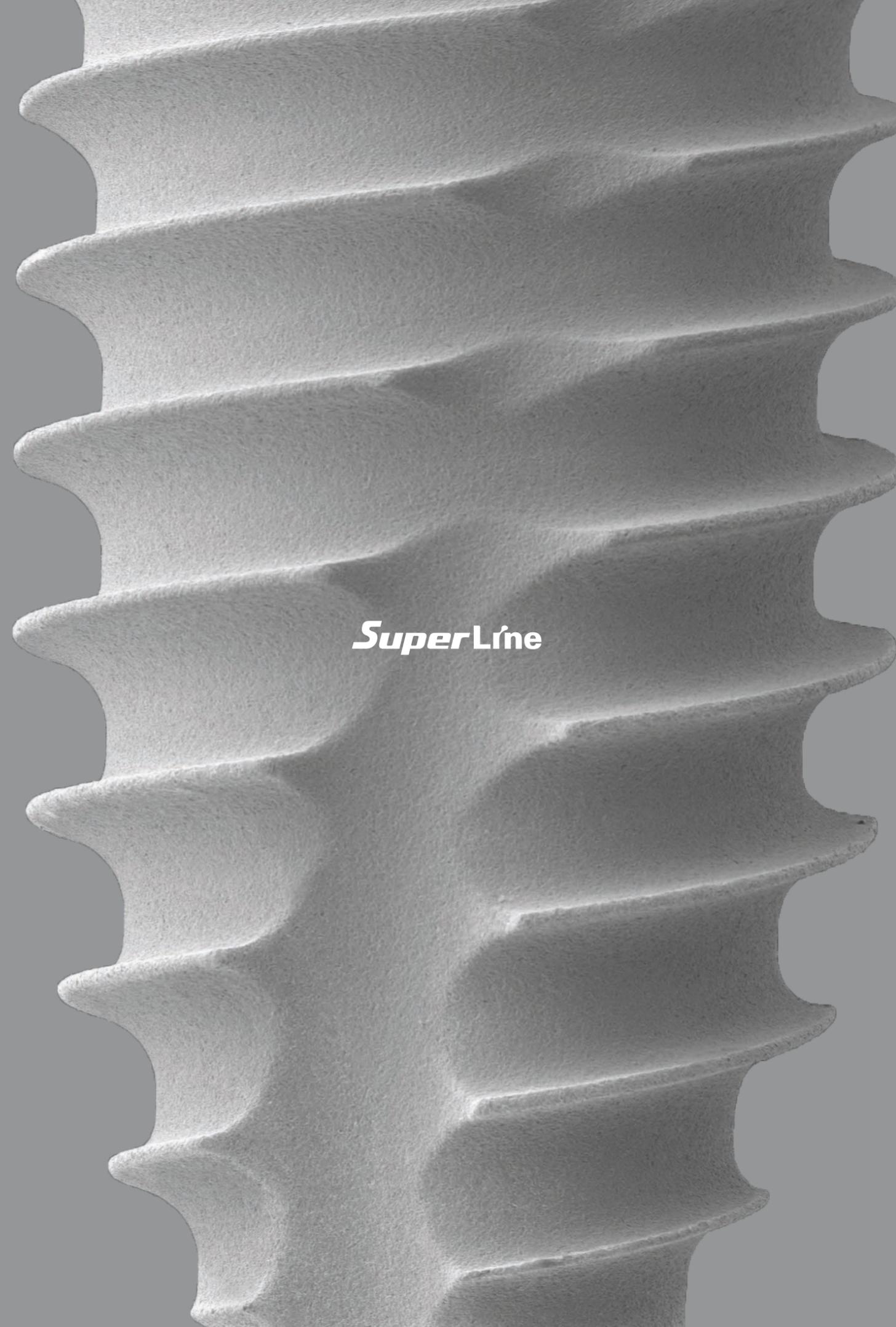
S.L.A. Surface

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

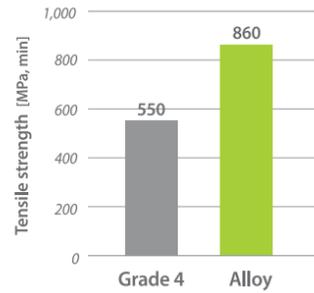


SuperLine

SuperLine Characteristics

Joint stability & Improved strength for zirconia crown

· Abutment material: Grade 4 \rightarrow Alloy

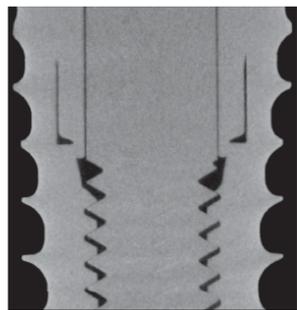


· Long hex design: Improved recognition

Improved soft tissue management

- Concave abutment design
- Non-coating

Improved wall thickness



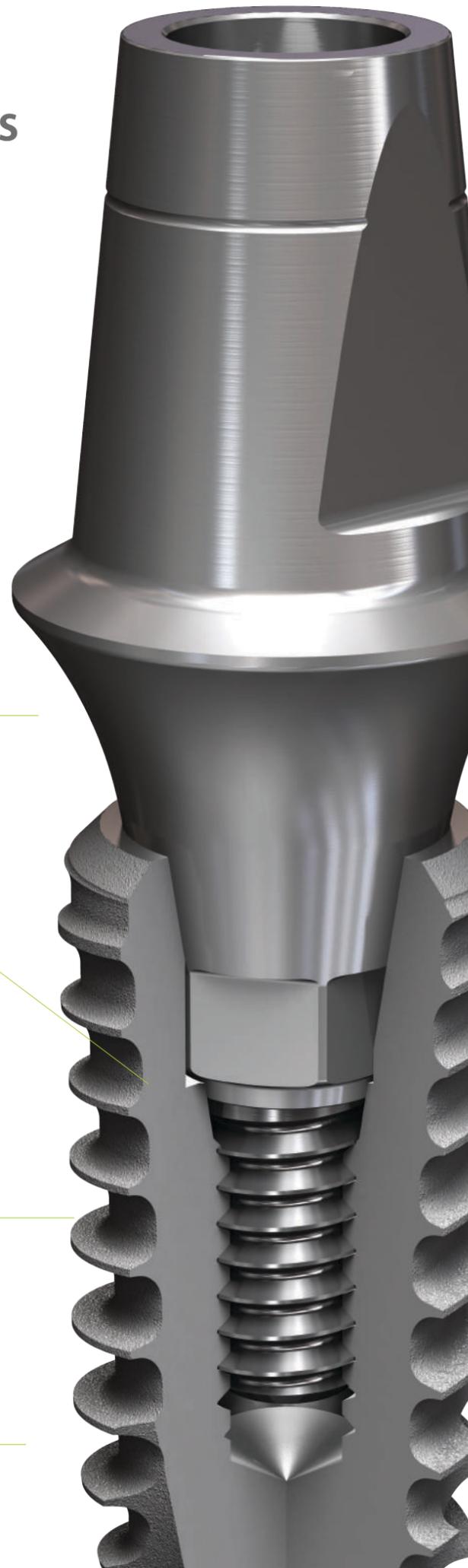
Double thread & Tapered design



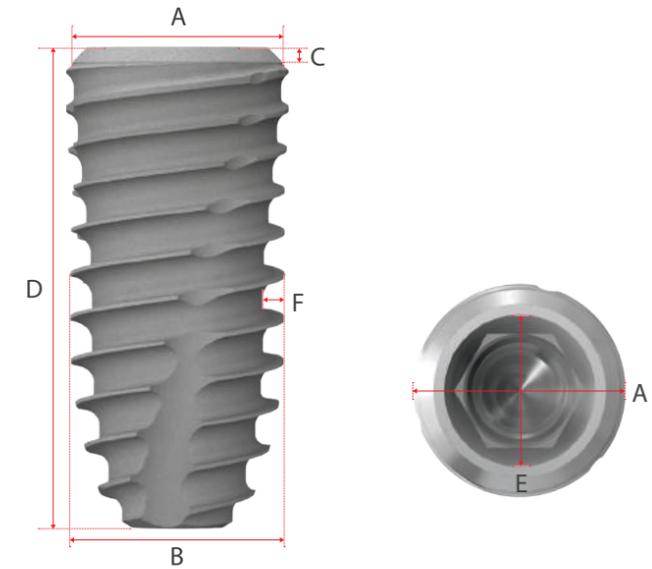
Double threaded tapered body design may provide good success rate in immediate loading cases.

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

Increased thread height and sharper



SuperLine Fixture Specifications



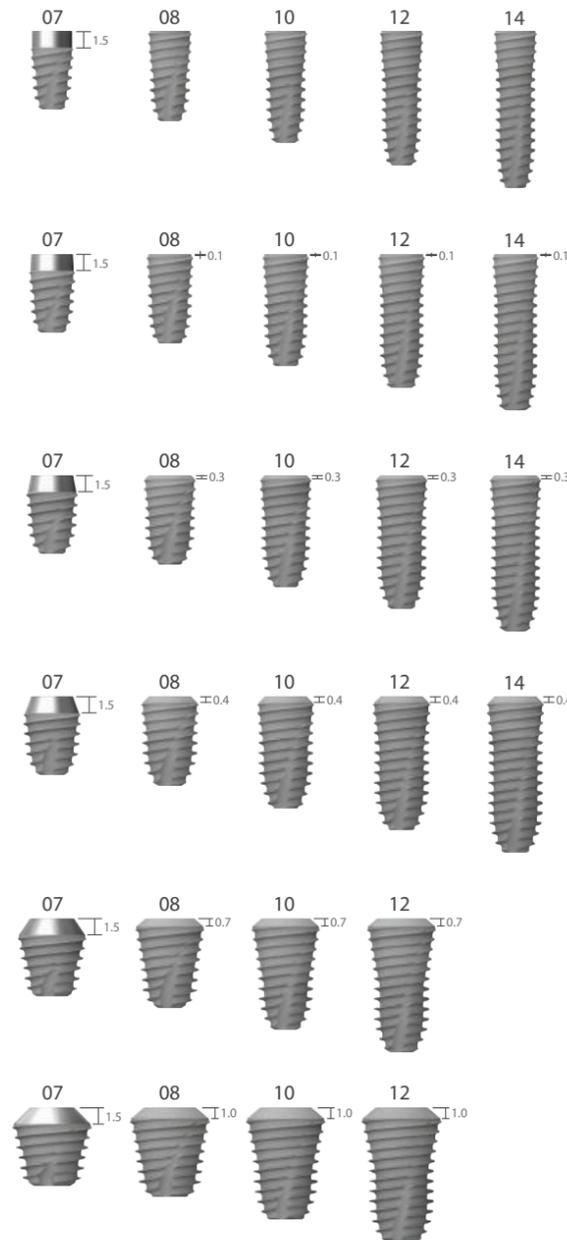
| Fixture (Mount Free) | | | | | | | | |
|----------------------|-----------------------|-------------------------|----------|----------|-------|--------|--------|-----|
| A | Platform Diameter(Ø) | 3.6 | 4.0 | 4.4 | 4.9 | 6.0 | 7.0 | |
| B | Body Diameter(Ø) | 3.6 | 4.0 | 4.5 | 5.0 | 5.0 | 5.8 | |
|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

SuperLine Fixture

· Cover screw is not included in the package

| Platform | Body | L | Art. No. |
|----------|-------------|-------|-------------|
| Ø 3.6 | Ø 3.6 | 7 | FX 36 07 SW |
| | | 8 | FX 36 08 SW |
| | | 10 | FX 36 10 SW |
| | | 12 | FX 36 12 SW |
| | | 14 | FX 36 14 SW |
| Ø 4.0 | Ø 4.0 | 7 | FX 40 07 SW |
| | | 8 | FX 40 08 SW |
| | | 10 | FX 40 10 SW |
| | | 12 | FX 40 12 SW |
| | | 14 | FX 40 14 SW |
| Ø 4.4 | Ø 4.5 | 7 | FX 45 07 SW |
| | | 8 | FX 45 08 SW |
| | | 10 | FX 45 10 SW |
| | | 12 | FX 45 12 SW |
| | | 14 | FX 45 14 SW |
| Ø 4.9 | Ø 5.0 | 7 | FX 50 07 SW |
| | | 8 | FX 50 08 SW |
| | | 10 | FX 50 10 SW |
| | | 12 | FX 50 12 SW |
| | | 14 | FX 50 14 SW |
| Ø 6.0 | Ø 5.0 | 7 | FX 60 07 SW |
| | | 8 | FX 60 08 SW |
| | | 10 | FX 60 10 SW |
| | | 12 | FX 60 12 SW |
| | | Ø 7.0 | Ø 5.8 |
| 8 | FX 70 08 SW | | |
| 10 | FX 70 10 SW | | |
| 12 | FX 70 12 SW | | |

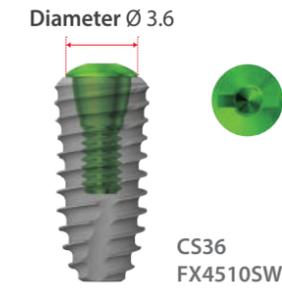
Unit: mm, Scale 1.5 : 1



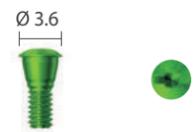
Cover Screw

Unit: mm, Scale 1.5 : 1

- Single use only
- Must sterilize prior to use



| Color | Diameter | Art. No. |
|-------|----------|----------|
| Green | Ø 3.6 | CS 36 |



※ Hex driver: Use no more than 5N-cm of torque when screwing a cover screw to a fixture.
If hex is worn, slot on the head of the product can be used to rotate it.

GBR Healing Abutment

Unit: mm, Scale 1.5 : 1



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



※ Note: To prevent damage to the Implant driver or fixture, do not over torque during fixture insertion.

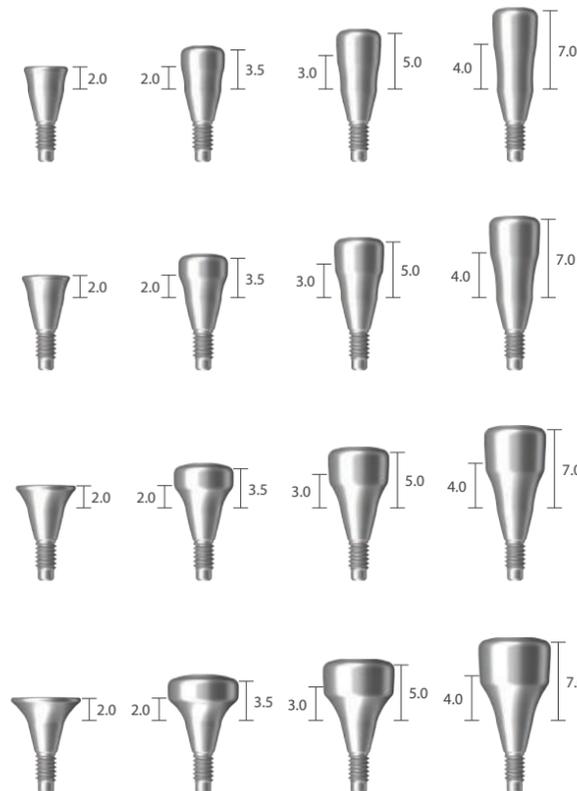
※ Hex driver: Use no more than 10N-cm of torque when screwing a healing abutment to a fixture.
If hex is worn, slot on the head of the product can be used to rotate it.

Healing Abutment

Unit: mm, Scale 1.5 : 1



| Diameter | G/H | H | Art. No. |
|----------|-----|-----|----------------|
| Ø 4.0 | 2.0 | 2.0 | HAB 40 20 20 E |
| | 2.0 | 3.5 | HAB 40 20 35 E |
| | 3.0 | 5.0 | HAB 40 30 50 E |
| | 4.0 | 7.0 | HAB 40 40 70 E |
| Ø 4.5 | 2.0 | 2.0 | HAB 45 20 20 E |
| | 2.0 | 3.5 | HAB 45 20 35 E |
| | 3.0 | 5.0 | HAB 45 30 50 E |
| | 4.0 | 7.0 | HAB 45 40 70 E |
| Ø 5.5 | 2.0 | 2.0 | HAB 55 20 20 E |
| | 2.0 | 3.5 | HAB 55 20 35 E |
| | 3.0 | 5.0 | HAB 55 30 50 E |
| | 4.0 | 7.0 | HAB 55 40 70 E |
| Ø 6.5 | 2.0 | 2.0 | HAB 65 20 20 E |
| | 2.0 | 3.5 | HAB 65 20 35 E |
| | 3.0 | 5.0 | HAB 65 30 50 E |
| | 4.0 | 7.0 | HAB 65 40 70 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.

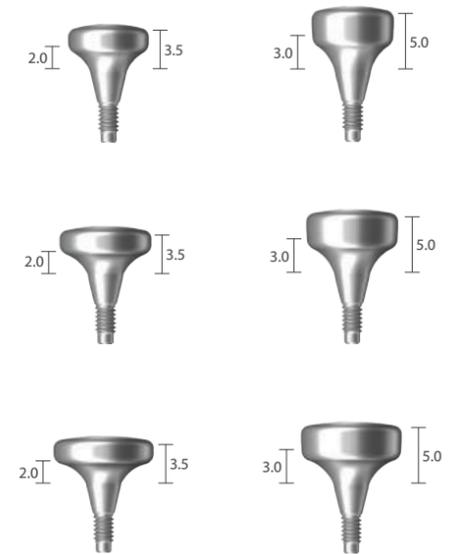
Healing Abutment

Unit: mm, Scale 1.5 : 1

| Diameter | G/H | H | Art. No. |
|----------|-----|-----|----------------|
| Ø 7.5 | 2.0 | 3.5 | HAB 75 20 35 E |
| | 3.0 | 5.0 | HAB 75 30 50 E |

| Diameter | G/H | H | Art. No. |
|----------|-----|-----|----------------|
| Ø 8.5 | 2.0 | 3.5 | HAB 85 20 35 E |
| | 3.0 | 5.0 | HAB 85 30 50 E |

| Diameter | G/H | H | Art. No. |
|----------|-----|-----|----------------|
| Ø 9.5 | 2.0 | 3.5 | HAB 95 20 35 E |
| | 3.0 | 5.0 | HAB 95 30 50 E |

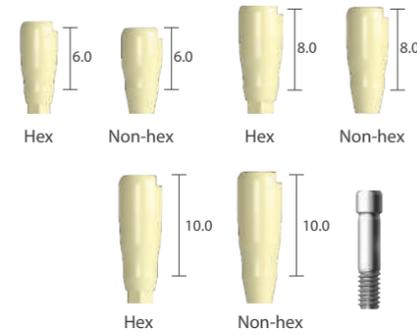


※ Hex driver: Use no more than 10N-cm of torque when screwing a healing abutment to a fixture.
If hex is worn, slot on the head of the product can be used to rotate it.

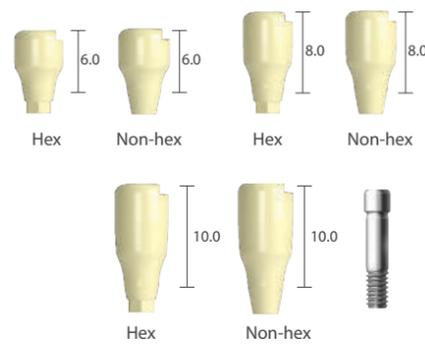
IOS Healing Abutment

Unit: mm, Scale 1.5 : 1

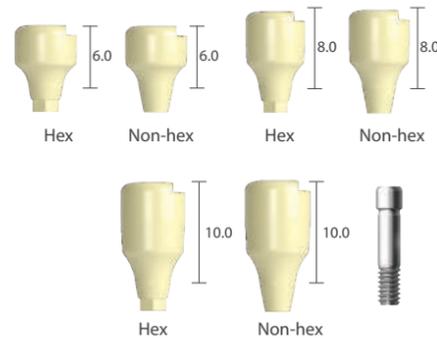
| Diameter | G/H | Type | Art. No. |
|----------|------|---------|--------------|
| Ø 4.0 | 6.0 | Hex | IHAB 40 06 H |
| | 6.0 | Non-hex | IHAB 40 06 N |
| | 8.0 | Hex | IHAB 40 08 H |
| | 8.0 | Non-hex | IHAB 40 08 N |
| | 10.0 | Hex | IHAB 40 10 H |
| | 10.0 | Non-hex | IHAB 40 10 N |



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



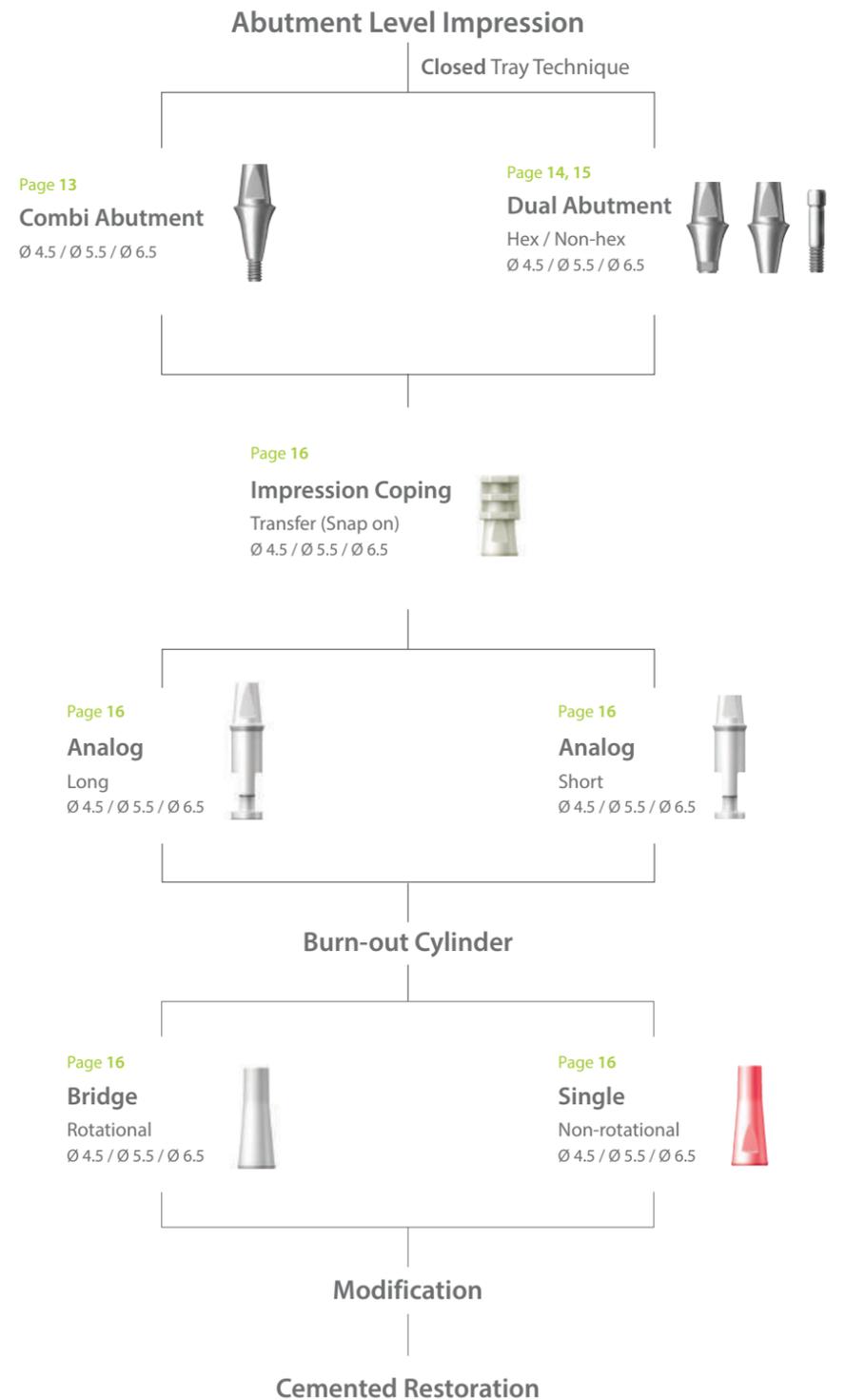
| Diameter | G/H | Type | Art. No. |
|----------|------|---------|--------------|
| Ø 6.0 | 6.0 | Hex | IHAB 60 06 H |
| | 6.0 | Non-hex | IHAB 60 06 N |
| | 8.0 | Hex | IHAB 60 08 H |
| | 8.0 | Non-hex | IHAB 60 08 N |
| | 10.0 | Hex | IHAB 60 10 H |
| | 10.0 | Non-hex | IHAB 60 10 N |



Prosthetic Procedure 1

Impression Technique and Restoration Selection

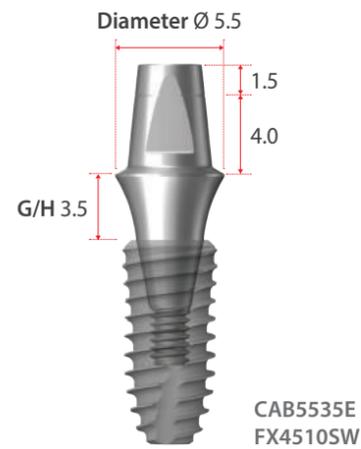
Dual / Combi Abutment



※ 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.

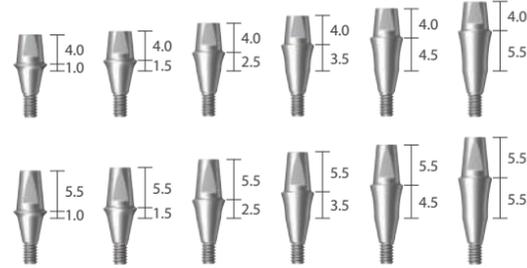
Combi Abutment

Unit: mm, Scale 1 : 1

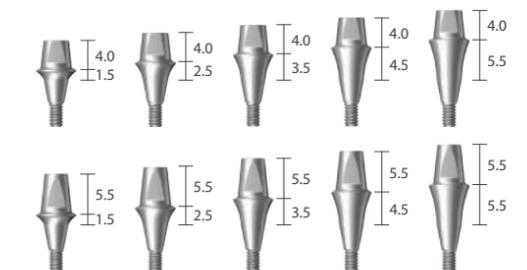


CAB5535E
FX4510SW

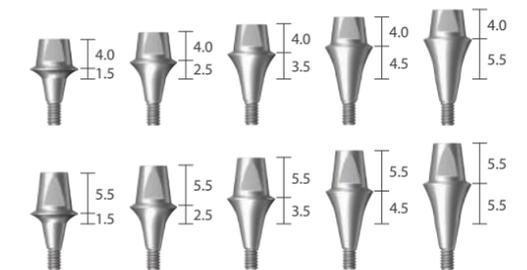
| Diameter | G/H | Type | Art. No. | Type | Art. No. |
|----------|-----|-------|--------------|------|-------------|
| Ø 4.5 | 1.0 | Short | CAB 45 10 SE | Long | CAB 45 10 E |
| | 1.5 | | CAB 45 15 SE | | CAB 45 15 E |
| | 2.5 | | CAB 45 25 SE | | CAB 45 25 E |
| | 3.5 | | CAB 45 35 SE | | CAB 45 35 E |
| | 4.5 | | CAB 45 45 SE | | CAB 45 45 E |
| | 5.5 | | CAB 45 55 SE | | CAB 45 55 E |



| | | | | | |
|-------|-----|-------|--------------|------|-------------|
| Ø 5.5 | 1.5 | Short | CAB 55 15 SE | Long | CAB 55 15 E |
| | 2.5 | | CAB 55 25 SE | | CAB 55 25 E |
| | 3.5 | | CAB 55 35 SE | | CAB 55 35 E |
| | 4.5 | | CAB 55 45 SE | | CAB 55 45 E |
| | 5.5 | | CAB 55 55 SE | | CAB 55 55 E |



| | | | | | |
|-------|-----|-------|--------------|------|-------------|
| Ø 6.5 | 1.5 | Short | CAB 65 15 SE | Long | CAB 65 15 E |
| | 2.5 | | CAB 65 25 SE | | CAB 65 25 E |
| | 3.5 | | CAB 65 35 SE | | CAB 65 35 E |
| | 4.5 | | CAB 65 45 SE | | CAB 65 45 E |
| | 5.5 | | CAB 65 55 SE | | CAB 65 55 E |

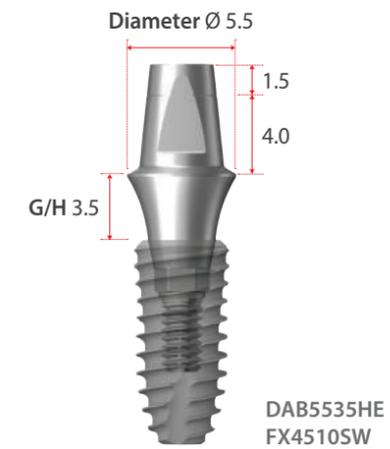


※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the combi abutment with fixture.

Dual Abutment_Hex

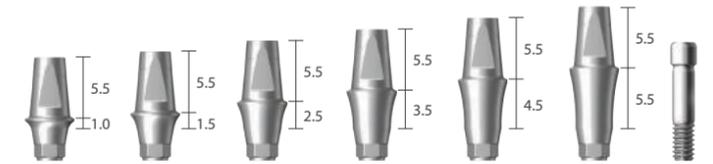
Unit: mm, Scale 1.5 : 1

· Abutment screw is included

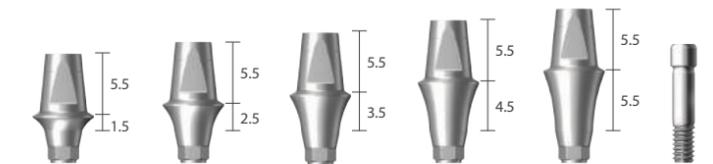


DAB5535HE
FX4510SW

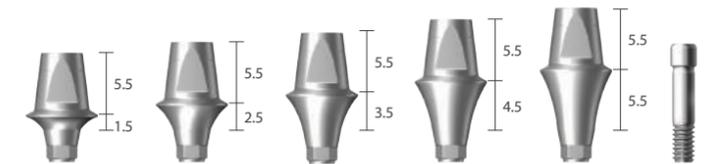
| Diameter | G/H | Art. No. |
|----------|-----|--------------|
| Ø 4.5 | 1.0 | DAB 45 10 HE |
| | 1.5 | DAB 45 15 HE |
| | 2.5 | DAB 45 25 HE |
| | 3.5 | DAB 45 35 HE |
| | 4.5 | DAB 45 45 HE |
| | 5.5 | DAB 45 55 HE |



| | | |
|-------|-----|--------------|
| Ø 5.5 | 1.5 | DAB 55 15 HE |
| | 2.5 | DAB 55 25 HE |
| | 3.5 | DAB 55 35 HE |
| | 4.5 | DAB 55 45 HE |
| | 5.5 | DAB 55 55 HE |



| | | |
|-------|-----|--------------|
| Ø 6.5 | 1.5 | DAB 65 15 HE |
| | 2.5 | DAB 65 25 HE |
| | 3.5 | DAB 65 35 HE |
| | 4.5 | DAB 65 45 HE |
| | 5.5 | DAB 65 55 HE |

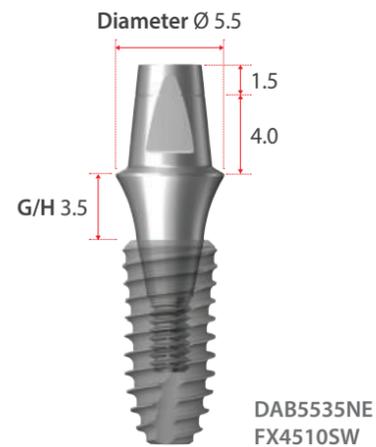


※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the dual abutment with fixture.

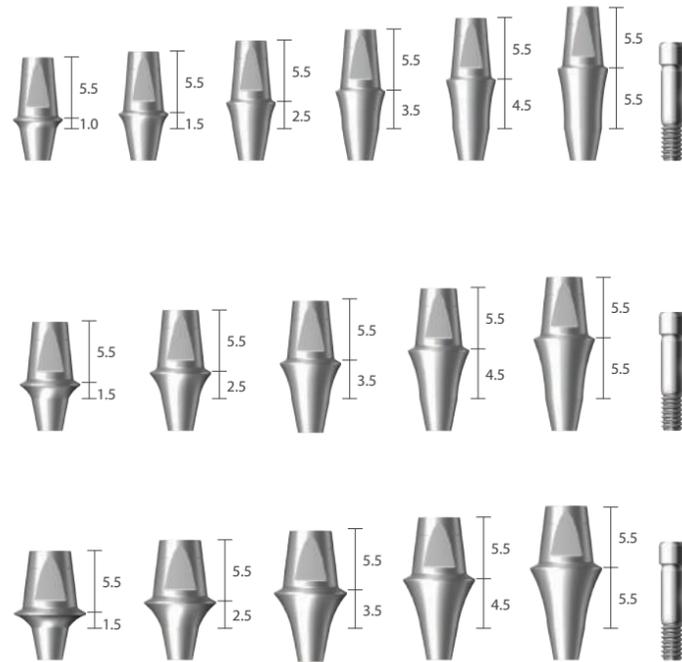
Dual Abutment_Non-hex

Unit: mm, Scale 1.5 : 1

· Abutment screw is included



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

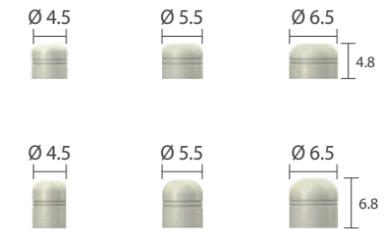


Abutment Level Impression Components

Unit: mm, Scale 1 : 1

Comfort Cap | Snap on

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



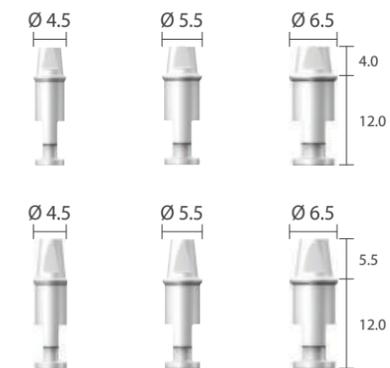
Impression Coping

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



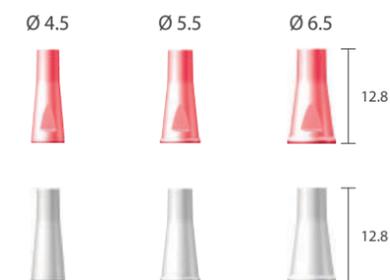
Lab Analog

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



Burn-out Cylinder

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



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

Restorative Kit



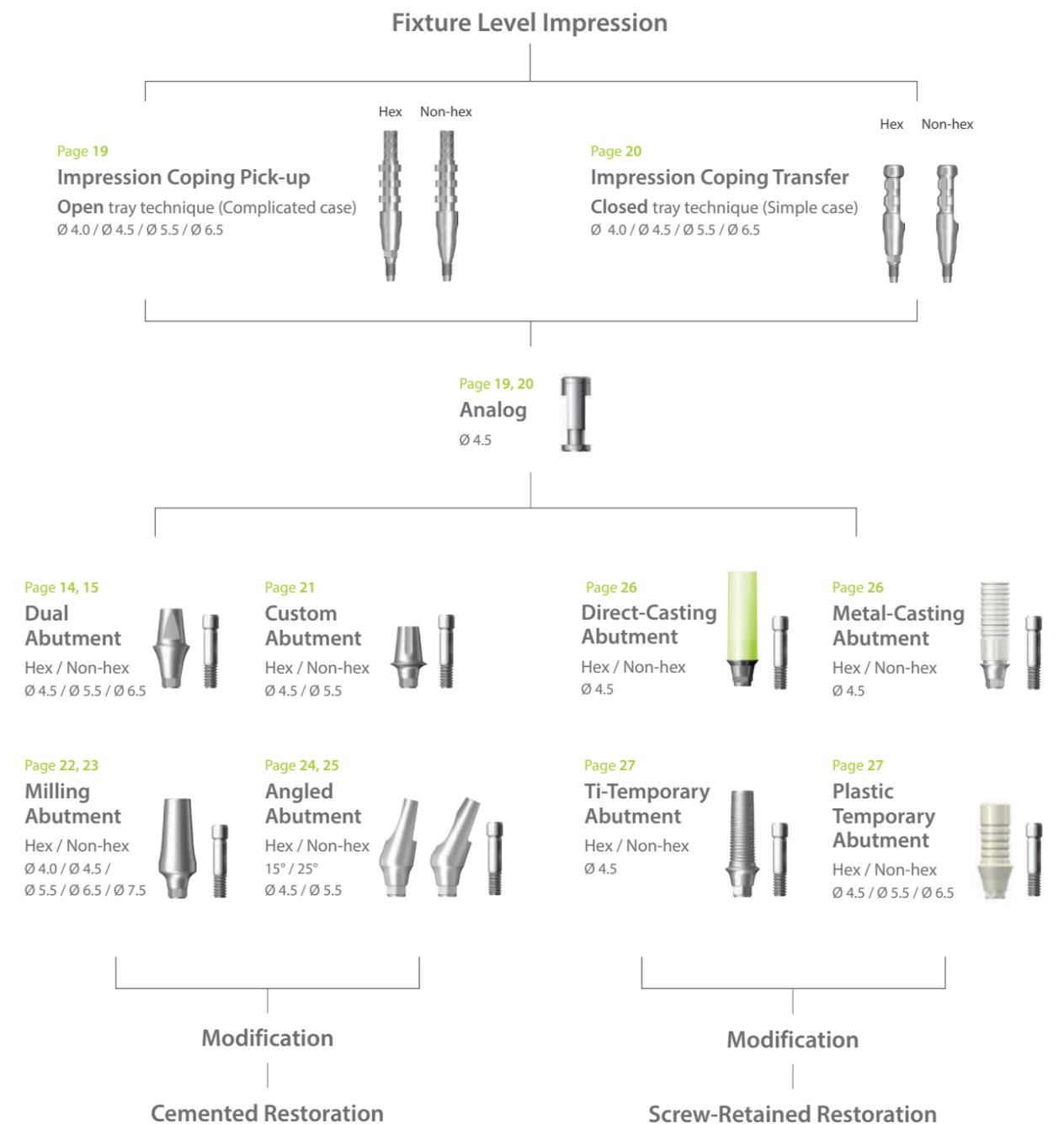
Combi & Dual Abutment

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

Prosthetic Procedure 2

Impression Technique and Restoration Selection

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



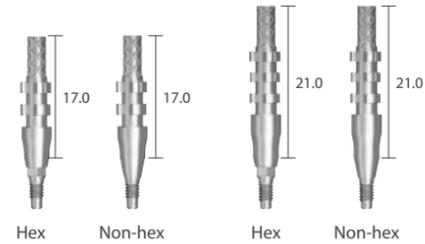
Fixture Level Impression Components

Unit: mm, Scale 1 : 1

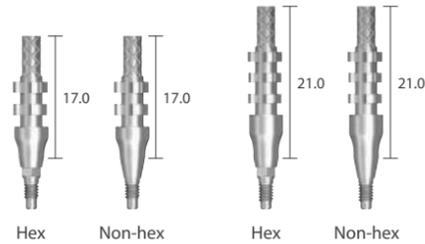
· Impression coping screw is included with Impression coping.

Impression Coping Pick-up

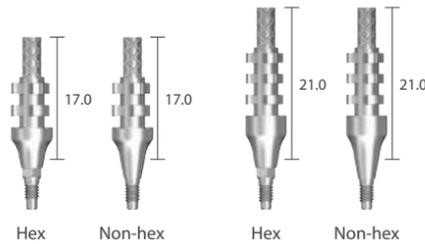
| Diameter | Size | Type | Art. No. |
|----------|-------|---------|--------------|
| Ø 4.0 | Short | Hex | DPU 40 11 HE |
| | Short | Non-hex | DPU 40 11 NE |
| | Long | Hex | DPU 40 15 HE |
| | Long | Non-hex | DPU 40 15 NE |



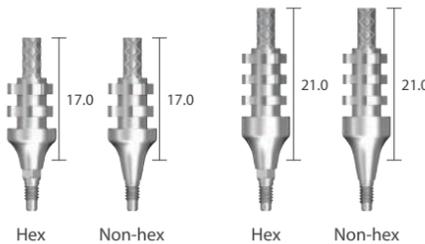
| | | | |
|-------|-------|---------|--------------|
| Ø 4.5 | Short | Hex | DPU 45 11 HE |
| | Short | Non-hex | DPU 45 11 NE |
| | Long | Hex | DPU 45 15 HE |
| | Long | Non-hex | DPU 45 15 NE |



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

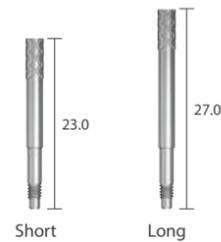


| | | | |
|-------|-------|---------|--------------|
| Ø 6.5 | Short | Hex | DPU 65 11 HE |
| | Short | Non-hex | DPU 65 11 NE |
| | Long | Hex | DPU 65 15 HE |
| | Long | Non-hex | DPU 65 15 NE |



Impression Coping Transfer Screw

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



Analog

| Diameter | L | Art. No. |
|----------|------|----------|
| Ø 4.5 | 12.0 | DANSE |



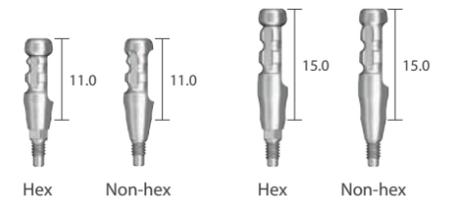
Fixture Level Impression Components

Unit: mm, Scale 1 : 1

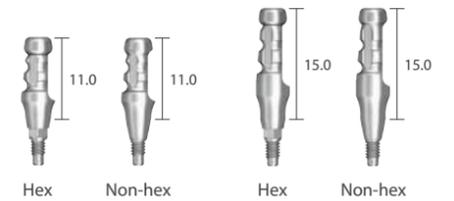
· Impression coping screw is included with Impression coping.

Impression Coping Transfer

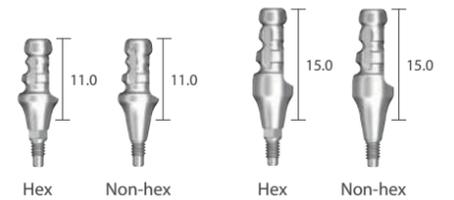
| Diameter | Size | Type | Art. No. |
|----------|-------|---------|--------------|
| Ø 4.0 | Short | Hex | DTF 40 11 HE |
| | Short | Non-hex | DTF 40 11 NE |
| | Long | Hex | DTF 40 15 HE |
| | Long | Non-hex | DTF 40 15 NE |



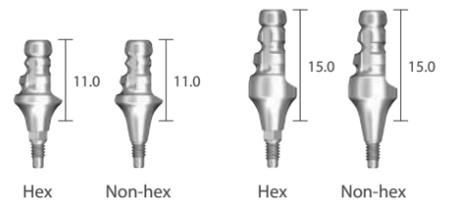
| | | | |
|-------|-------|---------|--------------|
| Ø 4.5 | Short | Hex | DTF 45 11 HE |
| | Short | Non-hex | DTF 45 11 NE |
| | Long | Hex | DTF 45 15 HE |
| | Long | Non-hex | DTF 45 15 NE |



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

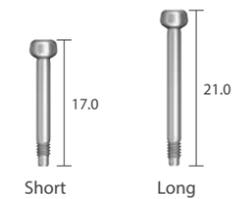


| | | | |
|-------|-------|---------|--------------|
| Ø 6.5 | Short | Hex | DTF 65 11 HE |
| | Short | Non-hex | DTF 65 11 NE |
| | Long | Hex | DTF 65 15 HE |
| | Long | Non-hex | DTF 65 15 NE |



Impression Coping Transfer Screw

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



Analog

| Diameter | L | Art. No. |
|----------|------|----------|
| Ø 4.5 | 12.0 | DANSE |



Custom Abutment

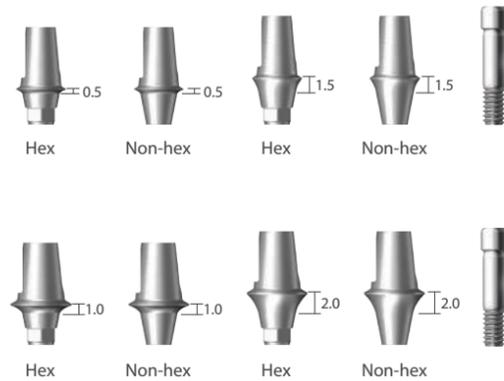
Unit: mm, Scale 1.5 : 1

· Abutment screw is included.



CDAB5510HE
FX4510SW

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

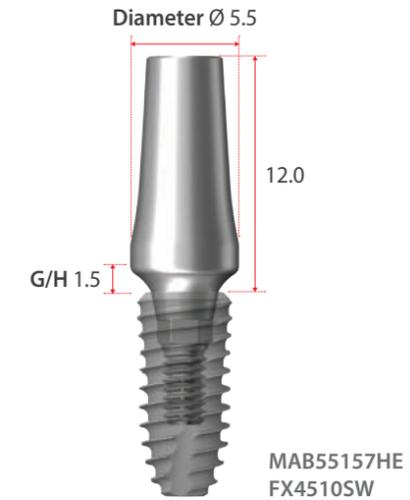


※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the custom abutment with fixture.

Milling Abutment

Unit: mm, Scale 1.5 : 1

· Abutment screw is included.

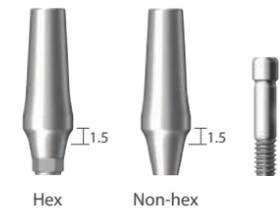


MAB55157HE
FX4510SW

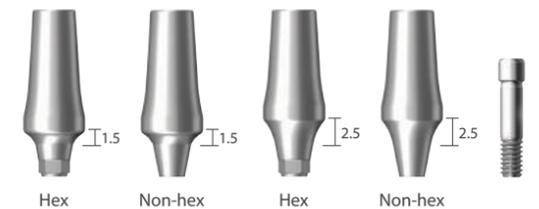
| Diameter | G/H | Type | Art. No. |
|----------|-----|---------|---------------|
| Ø 4.0 | 1.0 | Hex | MAB 40 105 HE |
| | 1.0 | Non-hex | MAB 40 105 NE |



| 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 |



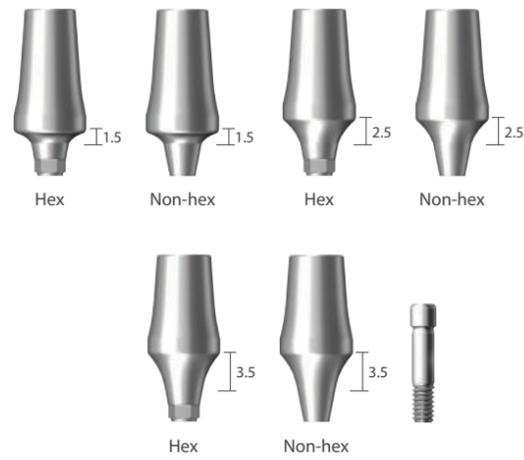
※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the milling abutment with fixture.

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 |

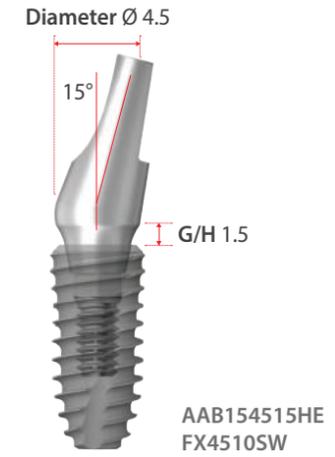


※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the milling abutment with fixture.

Angled Abutment_15°

· Abutment screw is included.

Unit: mm, Scale 1.5 : 1



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



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

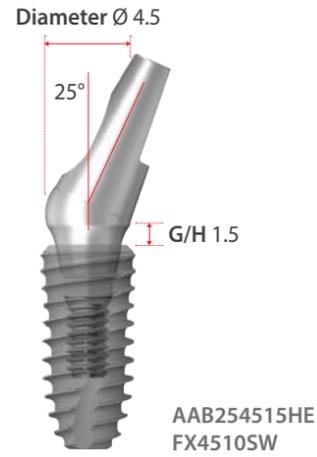


※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the angled abutment with fixture.

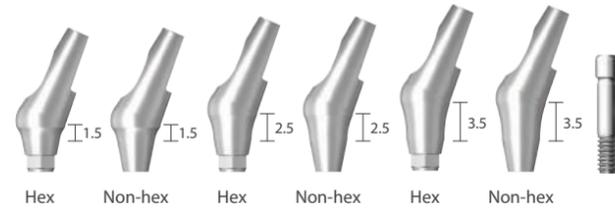
Angled Abutment_25°

Unit: mm, Scale 1.5 : 1

• Abutment screw is included.



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



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

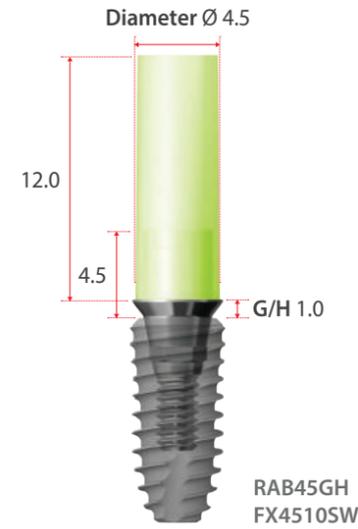


※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the angled abutment with fixture.

Direct-Casting Abutment

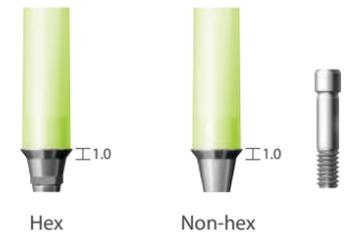
Unit: mm, Scale 1.5 : 1

• Abutment screw is included.



Gold

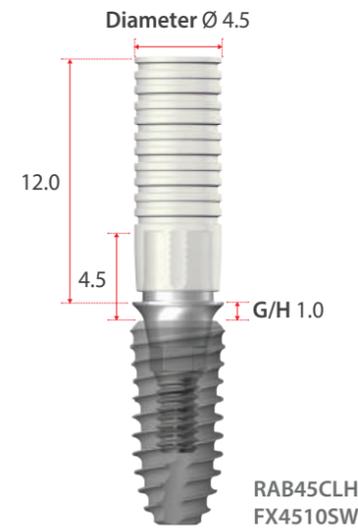
| Diameter | G/H | Type | Art. No. |
|----------|-----|---------|-----------|
| Ø 4.5 | 1.0 | Hex | RAB 45 GH |
| | | Non-hex | RAB 45 GN |



Metal-Casting Abutment

Unit: mm, Scale 1.5 : 1

• Abutment screw is included.



Co-Cr

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

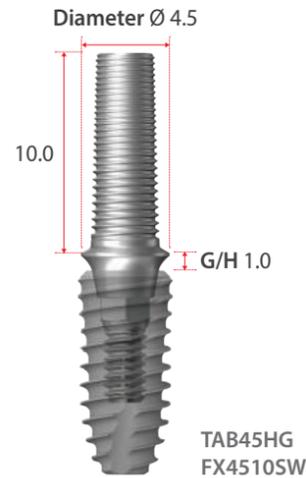


※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the direct casting/metal casting abutment with fixture.

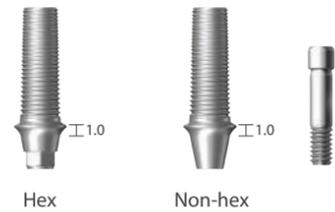
Ti-Temporary Abutment

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 |



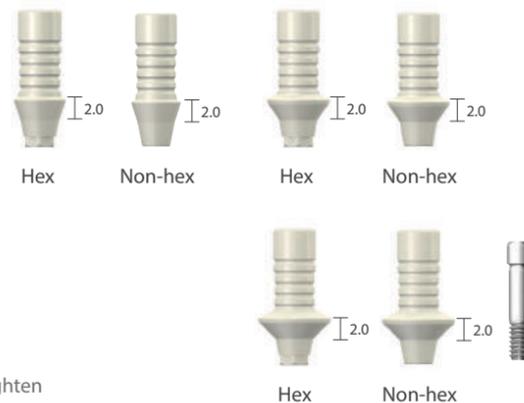
Plastic Temporary Abutment

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 |

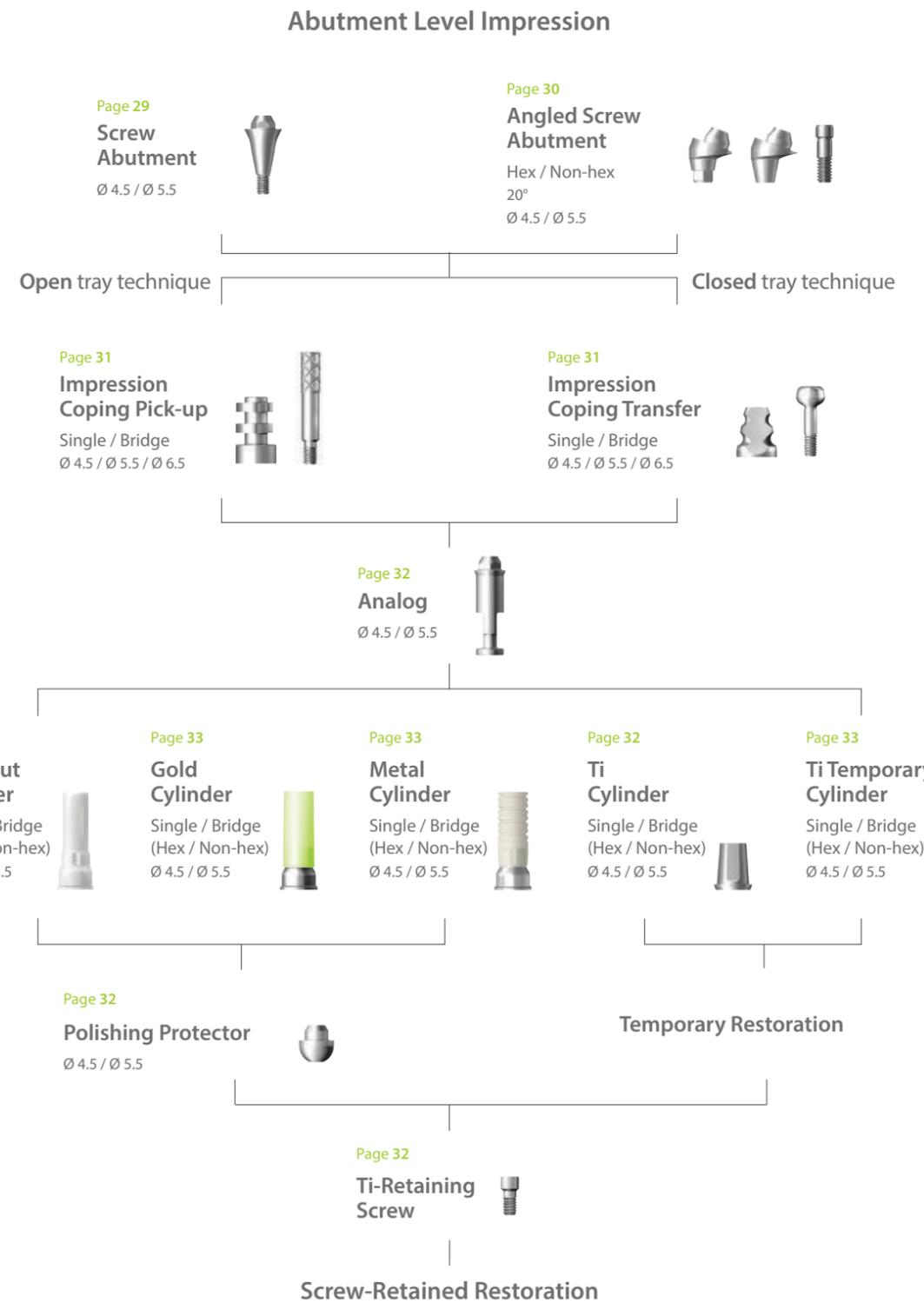


※ Note: It is recommended to keep the torque level at 25~30 N-cm to tighten the temporary abutment with fixture.

Prosthetic Procedure 3

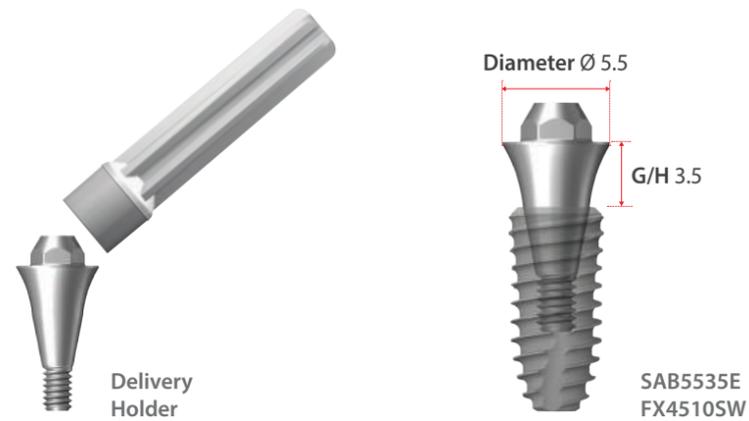
Impression Technique and Restoration Selection

Screw Abutment

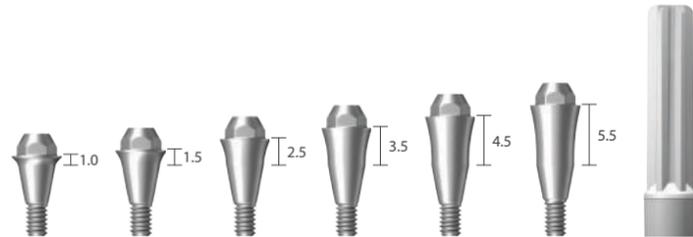


Screw Abutment

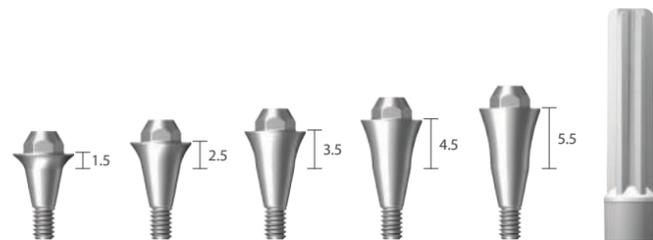
Unit: mm, Scale 1.5 : 1



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



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

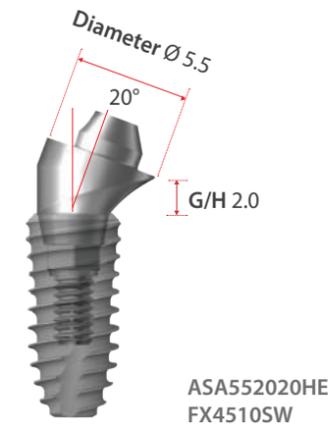


※ Note: It is recommended to keep the torque level at 25~30 N-cm to tighten the screw abutment with fixture.

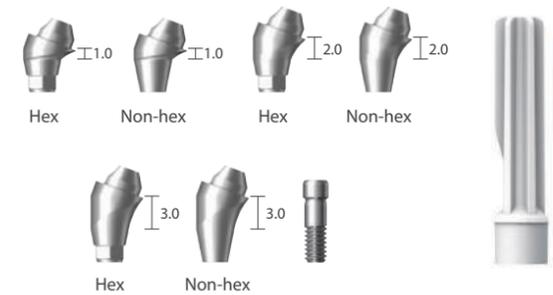
Angled Screw Abutment

Unit: mm, Scale 1.5 : 1

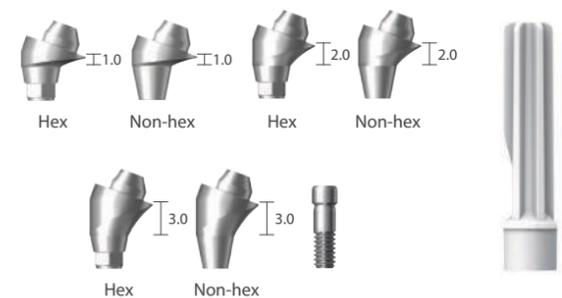
· Abutment screw is included.



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



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



Angled Screw Abutment Screw

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



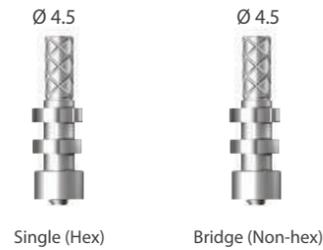
※ Note: It is recommended to keep the torque level at 25~30 N-cm to tighten the angled screw abutment with fixture.

Screw Abutment Impression Components

Unit: mm, Scale 1.5 : 1

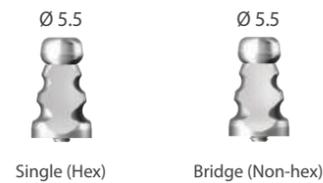
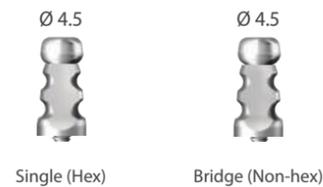
Impression Coping Pick-up

| Diameter | Type | | Art. No. |
|----------|--------|---------|-----------|
| Ø 4.5 | Single | Hex | SPU 45 SL |
| | Bridge | Non-hex | SPU 45 BL |
| Ø 5.5 | Single | Hex | SPU 55 SL |
| | Bridge | Non-hex | SPU 55 BL |



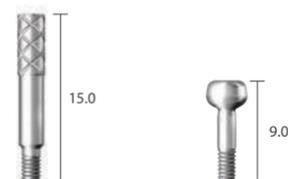
Impression Coping Transfer

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



Impression Coping Screw

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



Screw Abutment Impression Components

Unit: mm, Scale 1.5 : 1

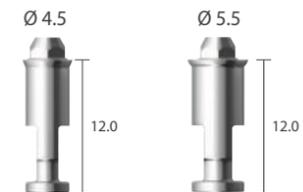
Comfort Cap

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



Analog

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



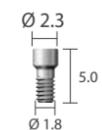
Polishing Protector

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



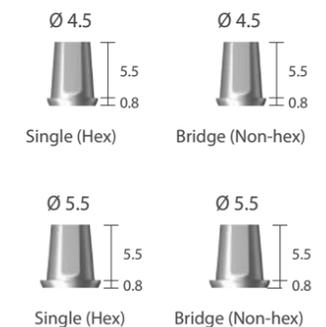
Ti-Retaining Screw

| Diameter | L | Art. No. |
|----------|-----|----------|
| Ø 2.3 | 5.0 | SRS 18 T |



Ti-Cylinder

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

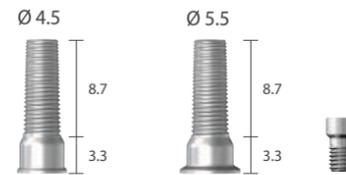


Screw Abutment Impression Components

Unit: mm, Scale 1.5 : 1

Ti-Temporary Cylinder

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



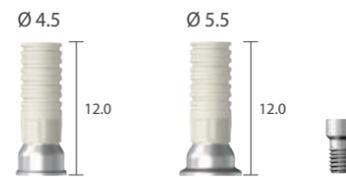
Gold Cylinder

| Diameter | Type | | Art. No. |
|----------|--------|---------|-----------|
| Ø 4.5 | Single | Hex | SGC 45 SL |
| | Bridge | Non-hex | SGC 45 BL |
| Ø 5.5 | Single | Hex | SGC 55 SL |
| | Bridge | Non-hex | SGC 55 BL |



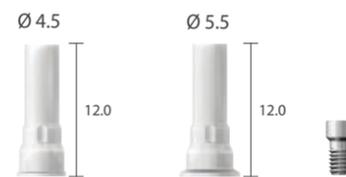
Metal Cylinder | Co-Cr

| Diameter | Type | | Art. No. |
|----------|--------|---------|------------|
| Ø 4.5 | Single | Hex | SGC 45 CSL |
| | Bridge | Non-hex | SGC 45 CBL |
| Ø 5.5 | Single | Hex | SGC 55 CSL |
| | Bridge | Non-hex | SGC 55 CBL |



Burn-out Cylinder

| Diameter | Type | | Art. No. |
|----------|--------|---------|-----------|
| Ø 4.5 | Single | Hex | SBC 45 SL |
| | Bridge | Non-hex | SBC 45 BL |
| Ø 5.5 | Single | Hex | SBC 55 SL |
| | Bridge | Non-hex | SBC 55 BL |



Prosthetic Procedure 4

Impression Technique and Restoration Type

Overdenture Procedure

Positioner / Mini Ball / Magnetic Attachment

Page 35

Positioner Abutment
Ø 3.5



Page 36

Mini Ball Abutment
Ø 3.5



Page 38, 39

Magnetic Implant Keeper
Dome type / Flat type
Ø 4.5 / Ø 5.5



Abutment Level Impression

Page 35

Positioner Impression Coping
Ø 4.5



Page 37

Mini Ball Impression Coping
Ø 3.5



Page 35

Positioner Analog
Ø 3.5



Page 37

Mini Ball Analog
Ø 3.5



Page 36

Block Out Spacer
Ø 6.5



Page 37

Socket Spacer
Ø 4.05 / Ø 4.85



Page 36

Positioner Socket
Metal / Plastic



Page 37

Mini Ball Female Socket / O-ring
Ø 4.05 / Ø 4.85



Page 38, 39

Magnetic Assay
Dome type / Flat type
Ø 4.5 / Ø 5.5



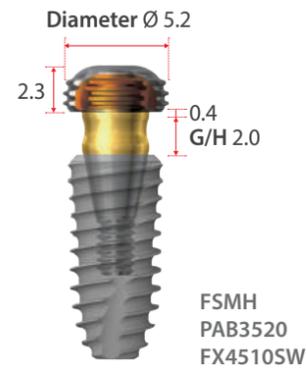
Positioner Attachment
for Overdenture

Mini Ball and Socket Attachment
for Overdenture

Magnetic Attachment
for Overdenture

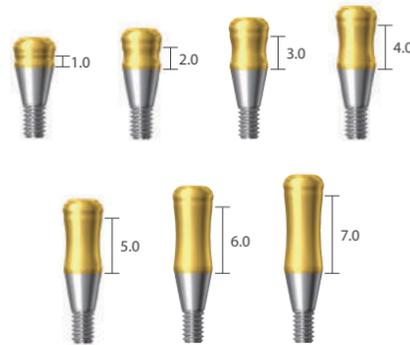
Positioner

Unit: mm, Scale 1.5 : 1



Positioner Abutment

| Diameter | G/H | Art. No. |
|----------|-----|-----------|
| Ø 3.5 | 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

| Diameter | L | Art. No. |
|----------|-----|----------|
| Ø 4.5 | 4.5 | PIC |



Positioner Analog

| Diameter | L | Art. No. |
|----------|------|----------|
| Ø 3.5 | 12.4 | PAN |



Positioner

Unit: mm, Scale 1.5 : 1

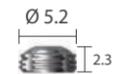
Positioner Socket Set

| Type | Art. No. |
|----------------------|----------|
| Tilting type ±10° | FSMHS |
| Non Tilting type ±5° | FSMHSN |



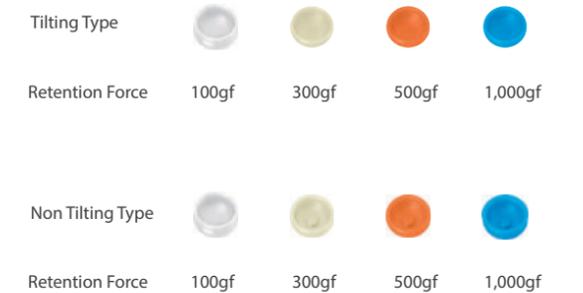
Positioner Metal Socket

| Diameter | H | Art. No. |
|----------|-----|----------|
| Ø 5.2 | 2.3 | FSMH |



Positioner Abutment

| Type | Application | Art. No. | |
|----------------------|-------------|----------|-------|
| Tilting type ±10° | Blue | 1,000gf | MSHP |
| | Orange | 500gf | MSMP |
| | Ivory | 300gf | MSLP |
| | White | 100gf | MSOP |
| Non tilting type ±5° | Blue | 1,000gf | MSHPN |
| | Orange | 500gf | MSMPN |
| | Ivory | 300gf | MSLPN |
| | White | 100gf | MSOPN |



Positioner Block Out Spacer

| Diameter | H | Art. No. |
|----------|-----|----------|
| Ø 6.5 | 0.5 | FSMH |



Positioner Core Tool

| |
|------|
| XPCT |
|------|



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

Mini Ball Attachment

Unit: mm, Scale 1.5 : 1



BPF3
BAB352018
FX4510SW

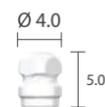
Mini Ball Abutment

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



Mini Ball Impression Coping

| Diameter | L | Art. No. |
|----------|-----|----------|
| Ø 4.0 | 5.0 | GICA |



Mini Ball Analog

| Diameter | Art. No. |
|----------|----------|
| Ø 3.5 | BANL |



Socket Spacer

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



Female Socket

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



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

Magnetic Attachment_Dome Type

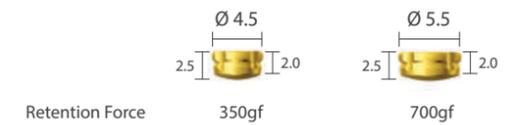
Unit: mm, Scale 1.5 : 1



MGT4520D
MKP4520D
FX4510SW

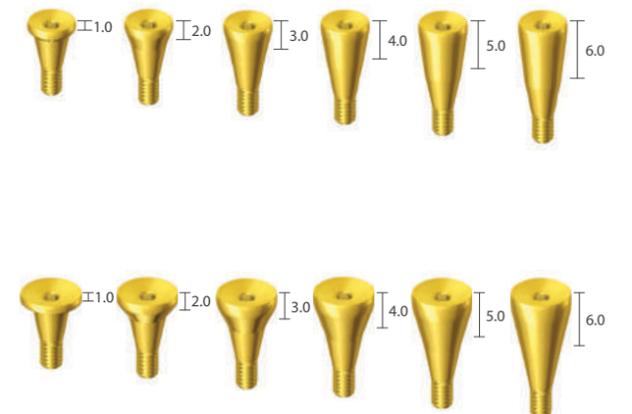
Magnetic Assay

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



Implant Keeper Diameter

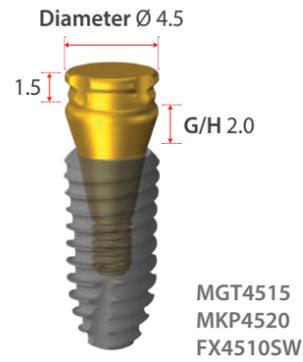
| Diameter | G/H | Art. No. |
|----------|-----|-------------|
| Ø 4.5 | 1.0 | MKP 45 10 D |
| | 2.0 | MKP 45 20 D |
| | 3.0 | MKP 45 30 D |
| | 4.0 | MKP 45 40 D |
| | 5.0 | MKP 45 50 D |
| | 6.0 | MKP 45 60 D |
| Ø 5.5 | 1.0 | MKP 55 10 D |
| | 2.0 | MKP 55 20 D |
| | 3.0 | MKP 55 30 D |
| | 4.0 |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



※ Note: 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 1.5 : 1



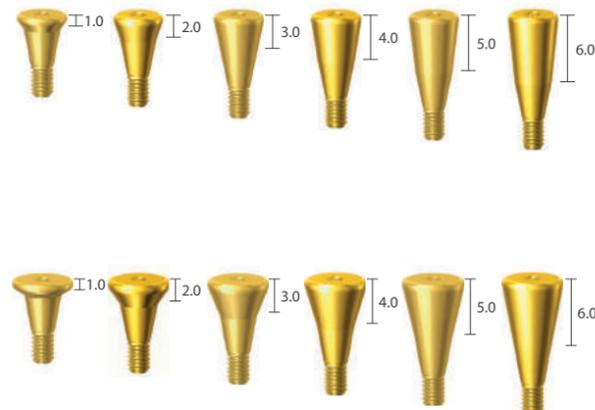
Magnetic Assay

| Application | Diameter | H | Art. No. |
|-------------|----------|-----|-----------|
| MKP 45 | Ø 4.5 | 1.5 | MGT 45 15 |
| | Ø 4.5 | 2.0 | MGT 45 20 |
| MKP 55 | Ø 5.5 | 1.5 | MGT 55 15 |
| | Ø 5.5 | 2.0 | MGT 55 20 |

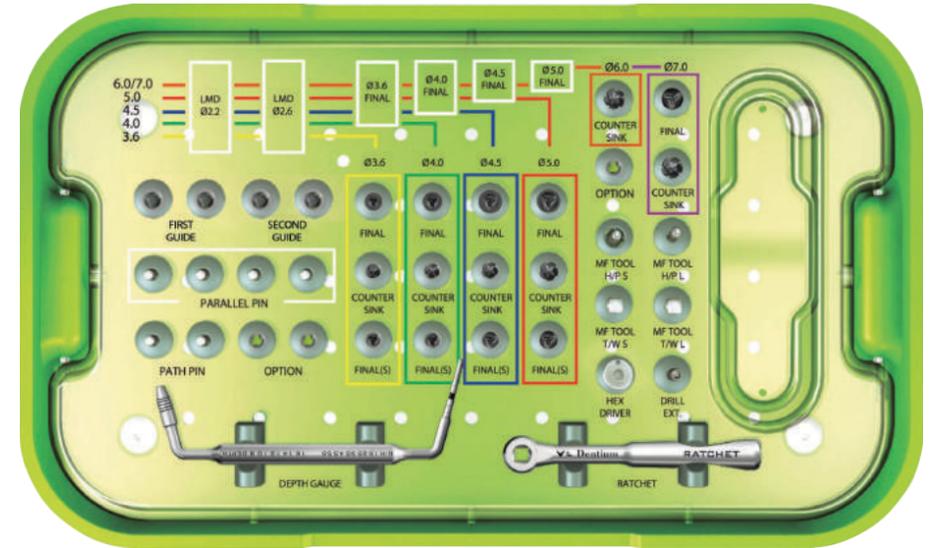


Implant Keeper Diameter

| Diameter | G/H | Art. No. |
|----------|-----|-----------|
| Ø 4.5 | 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 |
| Ø 5.5 | 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 |



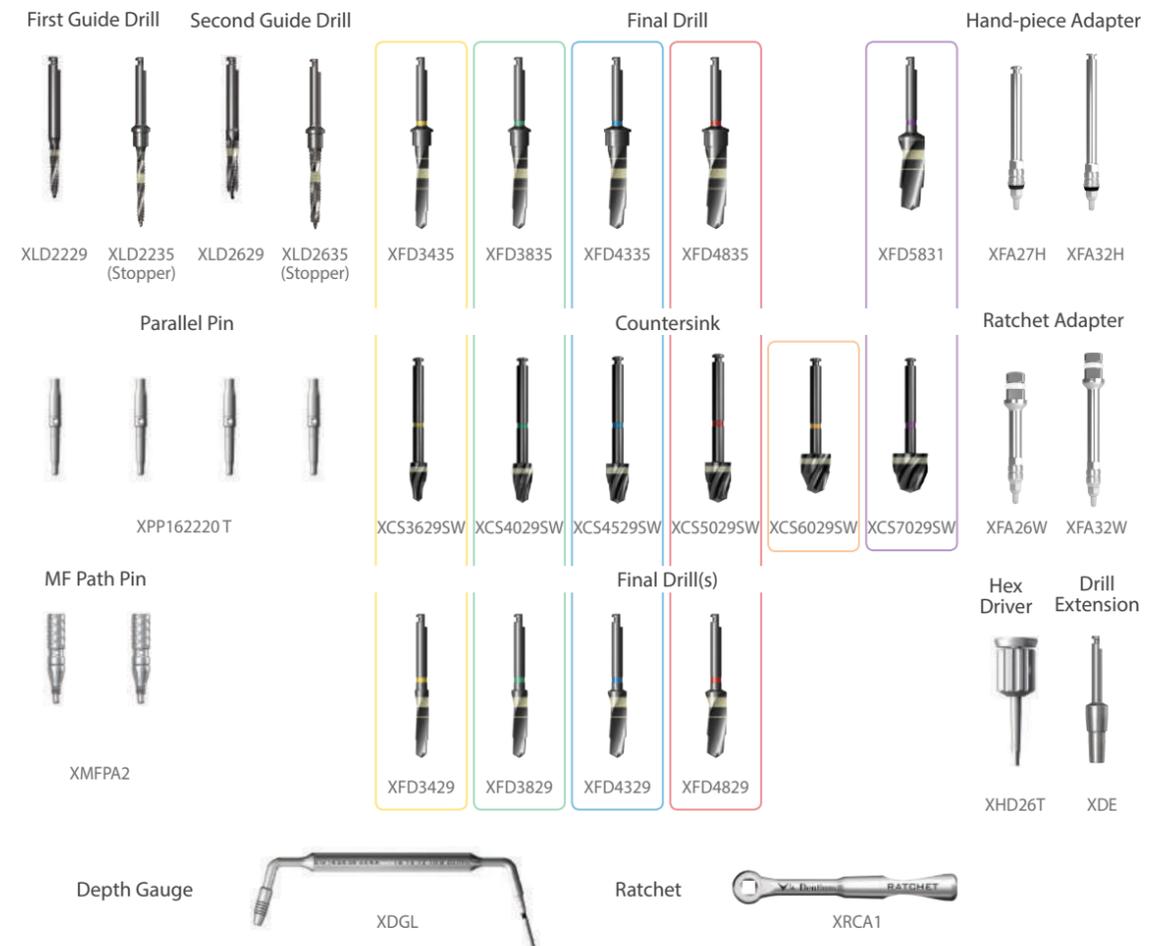
Surgical Kit_Full



SuperLine Surgical Full Kit

UXNF

Kit Includes

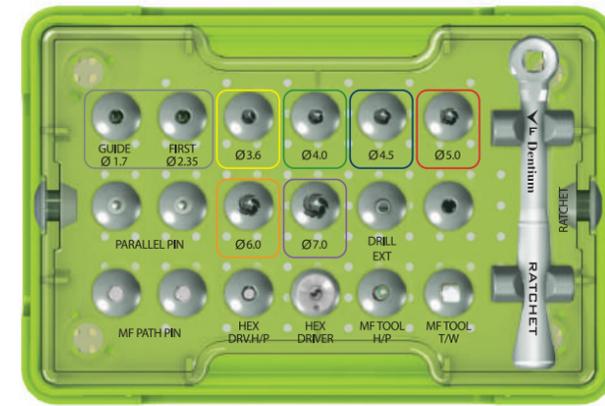


※ Note: It is recommended to keep the torque level at 25~30 N·cm to tighten the magnetic abutment with fixture.

Surgical Kit_Standard



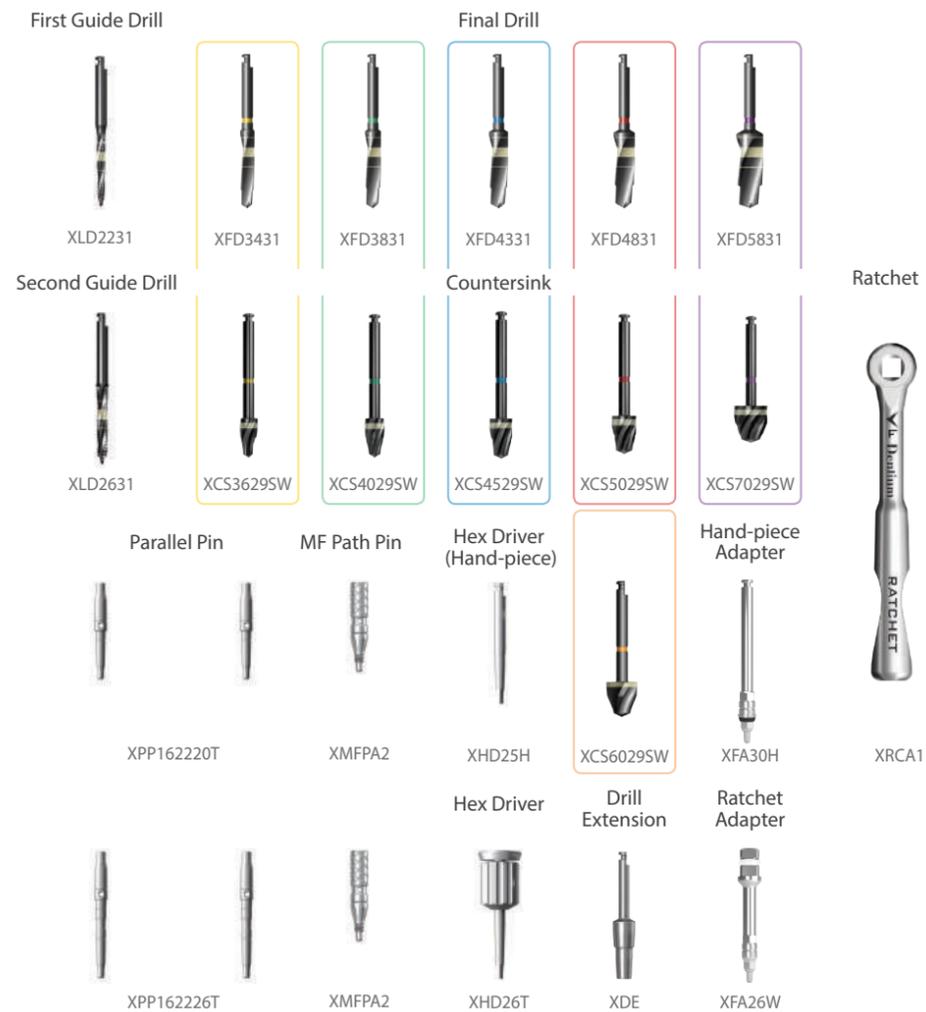
Surgical Kit_Short Implant



SuperLine Surgical Standard Kit

UXNS

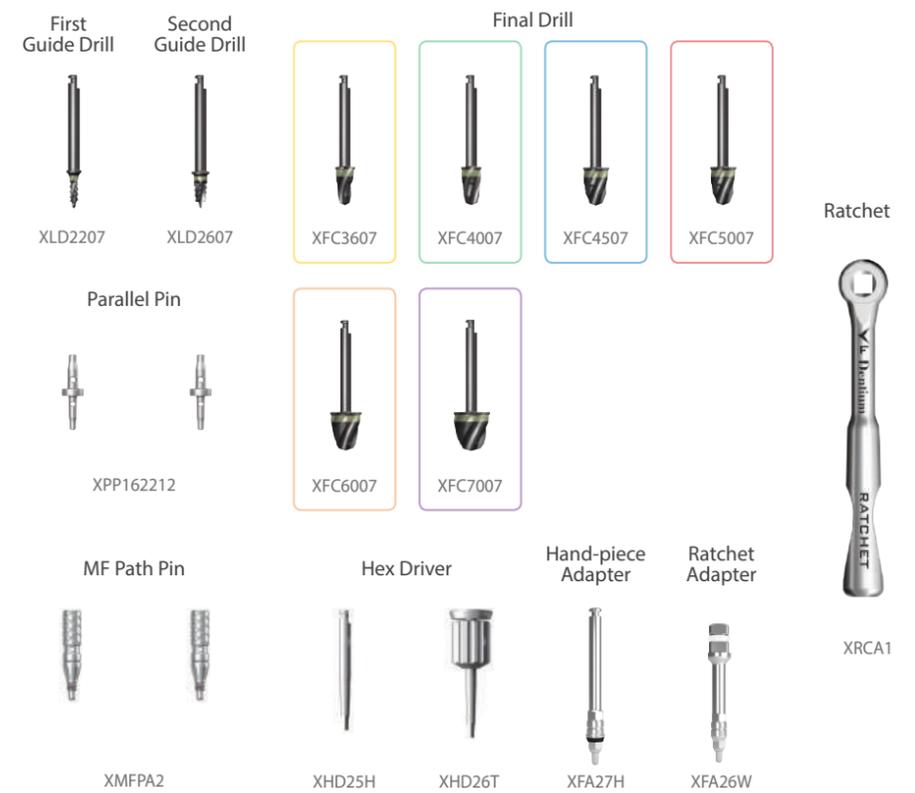
Kit Includes



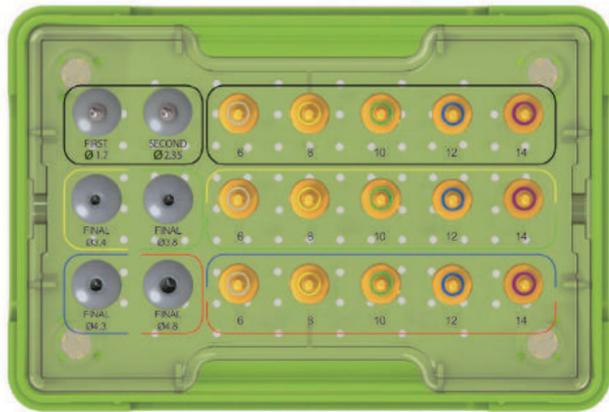
SuperLine Short Implant Surgical Kit

XSIK

Kit Includes



Drill Stopper Kit



Drill Stopper Kit

XDS

Kit Includes

| | |
|---|--|
| <p>Guide Drill Stopper First Second</p> <p>XLD2235 XLD2635</p> | <p>Stopper - First Guide Drill, Second Guide Drill</p> <p>XLDST06 XLDST08 XLDST10 XLDST12 XLDST14</p> |
| <p>Final Drill Stopper 34 38</p> <p>XFD3435 XFD3835</p> | <p>Stopper - Final Drill / 34, 38</p> <p>XFDST06 XFDST08 XFDST10 XFDST12 XFDST14</p> |
| <p>Final Drill Stopper 43 48</p> <p>XFD4335 XFD4835</p> | <p>Stopper - Final Drill / 43, 48</p> <p>XFDST06L XFDST08L XFDST10L XFDST12L XFDST14L</p> |

Surgical Instruments

Unit: mm, Scale 1 : 1

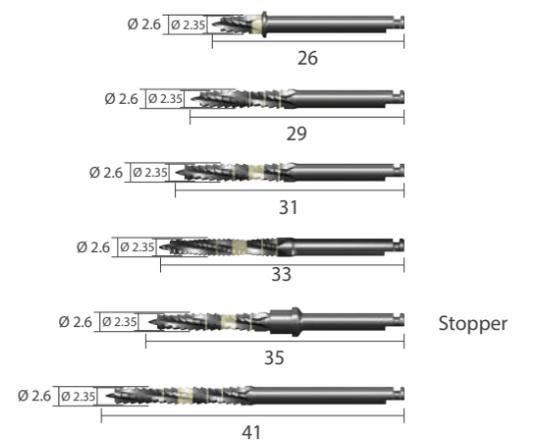
First Guide Drill

| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 2.2 | 26 | XLD 22 07 |
| | 29 | XLD 22 29 |
| | 31 | XLD 22 31 |
| | 33 | XLD 22 33 |
| | 35 | XLD 22 35 |
| | 41 | XLD 22 41 |



Second Guide Drill

| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 2.6 | 26 | XLD 26 07 |
| | 29 | XLD 26 29 |
| | 31 | XLD 26 31 |
| | 33 | XLD 26 33 |
| | 35 | XLD 26 35 |
| | 41 | XLD 26 41 |



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

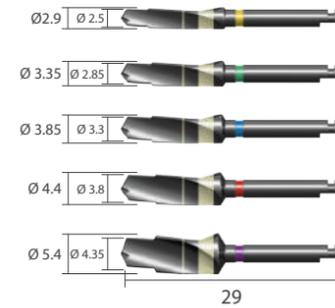
Surgical Instruments

Unit: mm, Scale 1 : 1

Final Drill



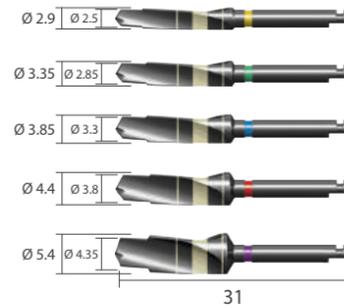
| Diameter | L | Art. No. |
|----------|----|--------------|
| Ø 2.9 | 29 | XFD 34 29 |
| Ø 3.35 | | XFD 38 29 |
| Ø 3.85 | | XFD 43 29 |
| Ø 4.4 | | XFD 48 29 |
| Ø 5.4 | | XFD 58 29 SW |



Final Drill



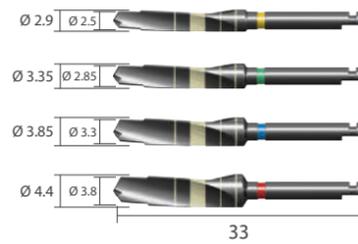
| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 2.9 | 31 | XFD 34 31 |
| Ø 3.35 | | XFD 38 31 |
| Ø 3.85 | | XFD 43 31 |
| Ø 4.4 | | XFD 48 31 |
| Ø 5.4 | | XFD 58 31 |



Final Drill



| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 2.9 | 33 | XFD 34 33 |
| Ø 3.35 | | XFD 38 33 |
| Ø 3.85 | | XFD 43 33 |
| Ø 4.4 | | XFD 48 33 |



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

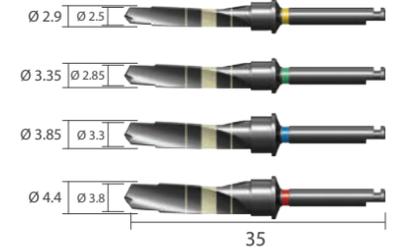
Surgical Instruments

Unit: mm, Scale 1 : 1

Final Drill I Stopper



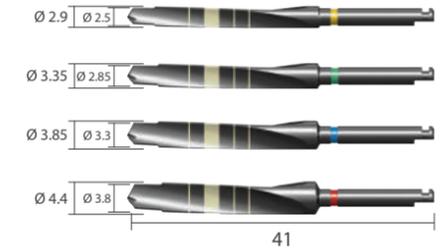
| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 2.9 | 35 | XFD 34 35 |
| Ø 3.35 | | XFD 38 35 |
| Ø 3.85 | | XFD 43 35 |
| Ø 4.4 | | XFD 48 35 |



Final Drill



| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 2.9 | 41 | XFD 34 41 |
| Ø 3.35 | | XFD 38 41 |
| Ø 3.85 | | XFD 43 41 |
| Ø 4.4 | | XFD 48 41 |



Harvest Drill I Stopper



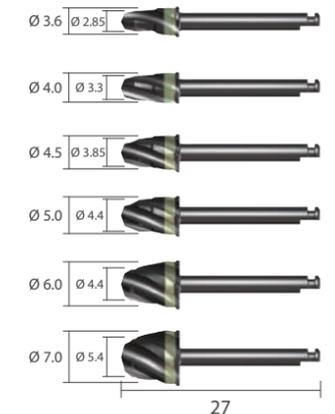
| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 2.85 | 35 | XFH 34 35 |
| Ø 3.3 | | XFH 38 35 |
| Ø 3.85 | | XFH 43 35 |
| Ø 4.4 | | XFH 48 35 |



Final Drill I For Short Drill



| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 3.6 | 27 | XFC 36 07 |
| Ø 4.0 | | XFC 40 07 |
| Ø 4.5 | | XFC 45 07 |
| Ø 5.0 | | XFC 50 07 |
| Ø 6.0 | | XFC 60 07 |
| Ø 7.0 | | XFC 70 07 |



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

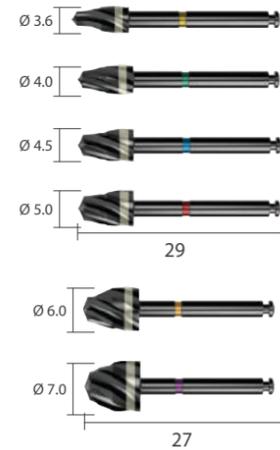
Surgical Instruments

Unit: mm, Scale 1 : 1

Countersink



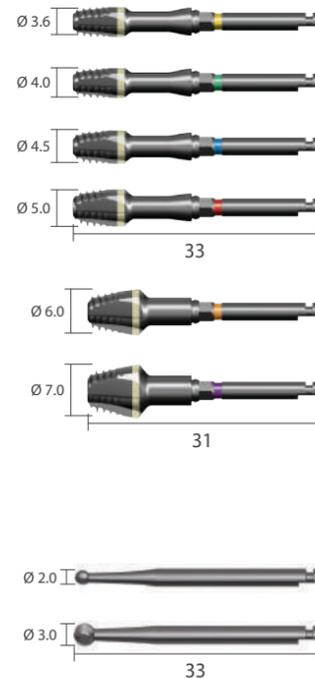
| Diameter | L | Art. No. |
|----------|----|--------------|
| Ø 3.6 | 29 | XCS 36 29 SW |
| Ø 4.0 | 29 | XCS 40 29 SW |
| Ø 4.5 | 29 | XCS 45 29 SW |
| Ø 5.0 | 29 | XCS 50 29 SW |
| Ø 6.0 | 27 | XCS 60 29 SW |
| Ø 7.0 | 27 | XCS 70 29 SW |



Condensing Drill



| Diameter | L | Art. No. |
|----------|----|-----------|
| Ø 3.6 | 33 | XCD 36 33 |
| Ø 4.0 | 33 | XCD 40 33 |
| Ø 4.5 | 33 | XCD 45 33 |
| Ø 5.0 | 33 | XCD 50 33 |
| Ø 6.0 | 31 | XCD 60 31 |
| Ø 7.0 | 31 | XCD 70 31 |



Round Bur

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

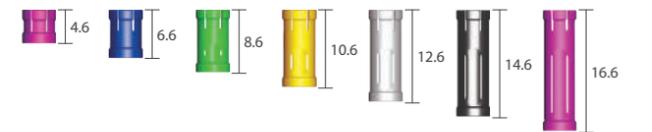
※ Note: 1. Countersink Drill & Round Bur speed 1,000rpm, 30~45 N-cm with irrigation
2. Condensing Drill speed 20~60rpm, 30~45 N-cm with irrigation

Surgical Instruments

Unit: mm, Scale 1 : 1

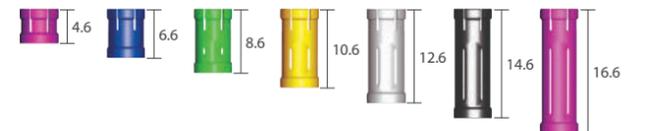
Stopper I For first guide drill, second guide drill

| Diameter | Drilling Depth | L | Art. No. |
|----------|----------------|------|----------|
| Ø 4.45 | 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 I For final drill 3435, 3835

| Diameter | Drilling Depth | L | Art. No. |
|----------|----------------|------|----------|
| Ø 5.14 | 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 I For final drill 4335, 4835

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

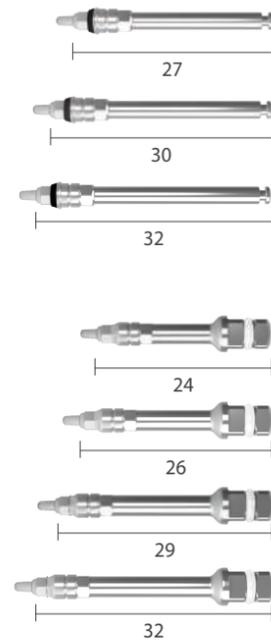


Surgical Instruments

Unit: mm, Scale 1 : 1

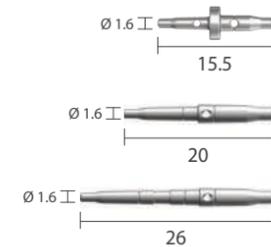
Adapter | Hex 2.5mm

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



Parallel Pin | For first guide drill, second guide drill

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



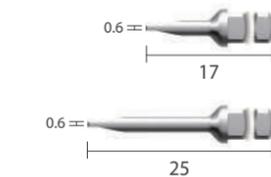
Path Pin

| Diameter | L | Art. No. |
|----------|------|----------|
| Ø 1.6 | 18.6 | XMFP A 2 |



Slot Driver

| Type | L | Art. No. |
|---------|----|----------|
| Ratchet | 17 | SDA 17 R |
| | 25 | SDA 25 R |

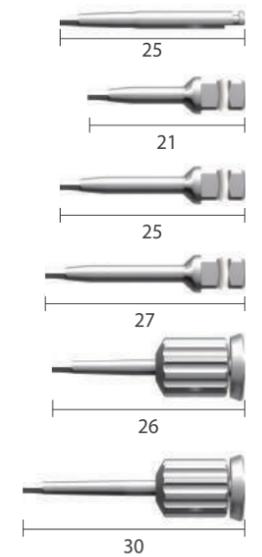


Surgical Instruments

Unit: mm, Scale 1 : 1

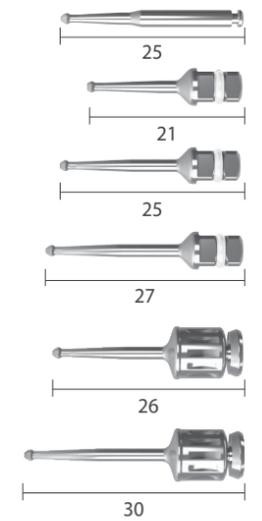
Hex Driver | Hex 1.28mm

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



Angled Hex Driver

| Type | L | Art. No. |
|------------|----|----------|
| Hand-piece | 25 | XAD 25 H |
| | 21 | XAD 21 W |
| Ratchet | 25 | XAD 25 W |
| | 27 | XAD 27 W |
| Manual | 26 | XAD 26 T |
| | 30 | XAD 30 T |



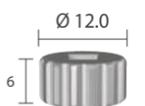
Drill Extension

| Diameter | L | Art. No. |
|----------|----|----------|
| Ø 3.0 | 26 | XDE |



Driver

| Type | Diameter | Art. No. |
|--------|----------|----------|
| Manual | Ø 12.0 | XHDHT |

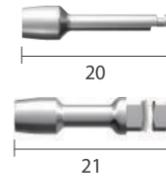


Surgical Instruments

Unit: mm, Scale 1 : 1

Screw & Ball Abutment Adapter

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



Mini Ball Abutment Adapter

| Type | L | Art. No. |
|---------|----|-----------|
| Ratchet | 21 | IPST 21 W |



Ratchet

Scale 0.7 : 1

XRCA 1



Torque Wrench

Scale 0.7 : 1

XNTW



Depth Gauge

Scale 0.7 : 1

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.

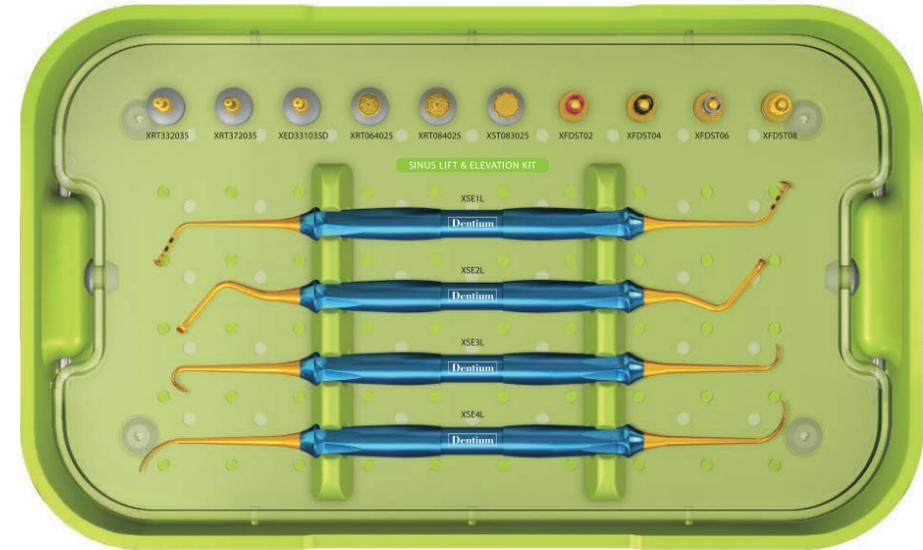


Tissue Punch

| Diameter | L | Art. No. |
|----------|----|----------|
| Ø 4.0 | 27 | XTS 40 |



DASK



Dentium Advanced Sinus Kit

DASK

Kit Includes



Sinus Elevation Instrument



Sinus Bur Kit



Sinus Bur Kit

SDK

Kit Includes

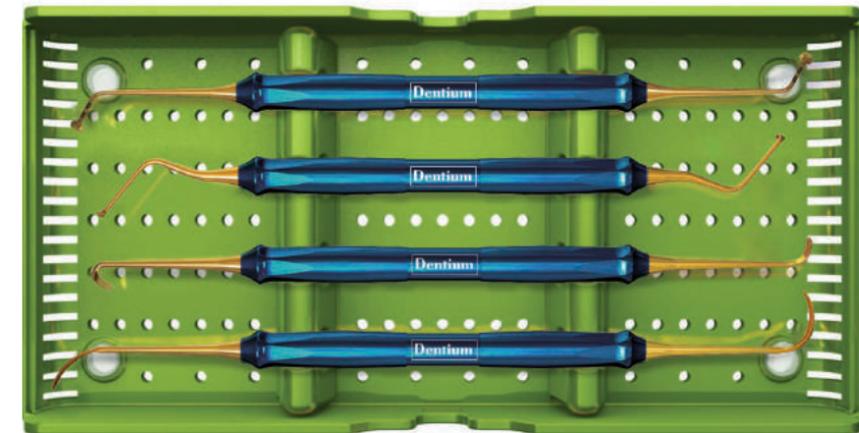
DASK Drill



Stopper



Sinus Kit



Sinus Bur Kit

XSKL

Kit Includes

Sinus Elevation Instrument



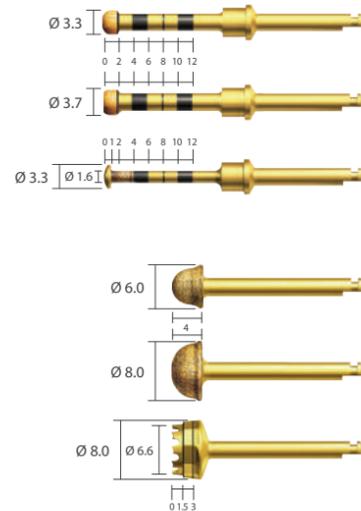
DASK / Sinus Bur Kit

Unit: mm, Scale 1 : 1

DASK Drill

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

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



Stopper | For XRT332035, XRT372035, XED331035D

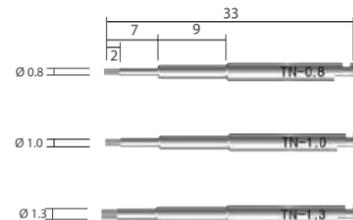
| Diameter | Drilling Depth | L | Art. No. |
|----------|----------------|------|----------|
| Ø 5.14 | 08 | 10.6 | XFDST 08 |
| | 06 | 12.6 | XFDST 06 |
| | 04 | 14.6 | XFDST 04 |
| | 02 | 16.6 | XFDST 02 |



TN Brush

TN Brush

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



Osteotome Kit

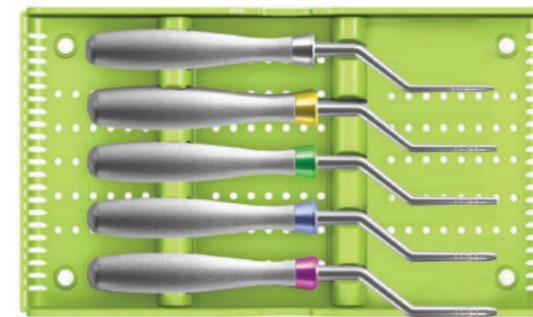
Unit: mm, Scale 1 : 1

Osteotome

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



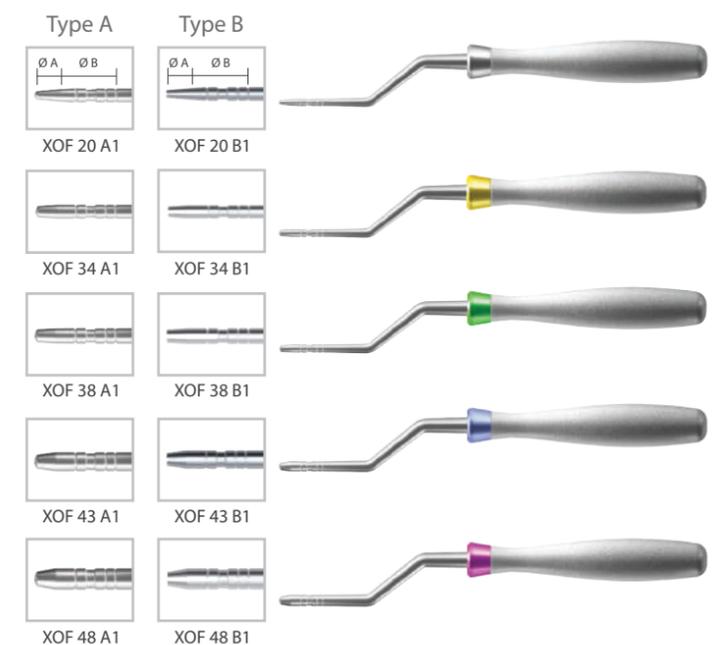
Osteotome Kit



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

Osteotome | Final drill type | Scale 0.4 : 1

| Type | Ø A | Ø B | Art. No. |
|---------------------|-------|-------|-----------|
| Type A (Convex) | Ø 1.7 | Ø 2.8 | XOF 20 A1 |
| | Ø 2.3 | Ø 2.8 | XOF 34 A1 |
| | Ø 2.7 | Ø 3.2 | XOF 38 A1 |
| | Ø 2.8 | Ø 3.8 | XOF 43 A1 |
| | Ø 3.0 | Ø 4.3 | XOF 48 A1 |
| Type B (Concave) | Ø 1.7 | Ø 2.8 | XOF 20 B1 |
| | Ø 2.3 | Ø 2.8 | XOF 34 B1 |
| | Ø 2.7 | Ø 3.2 | XOF 38 B1 |
| | Ø 2.8 | Ø 3.8 | XOF 43 B1 |
| | Ø 3.0 | Ø 4.3 | XOF 48 B1 |

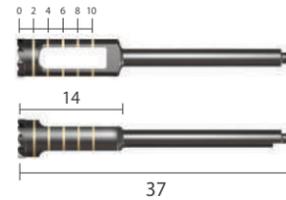


Trephine Kit

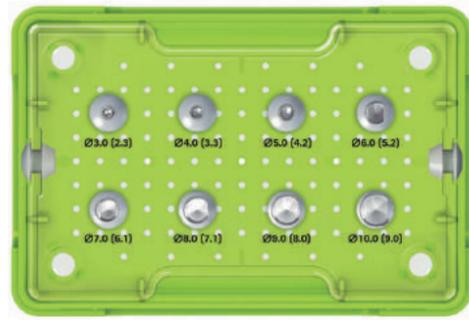
Trephine Bur

- 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

Unit: mm, Scale 1 : 1



Trephine Kit



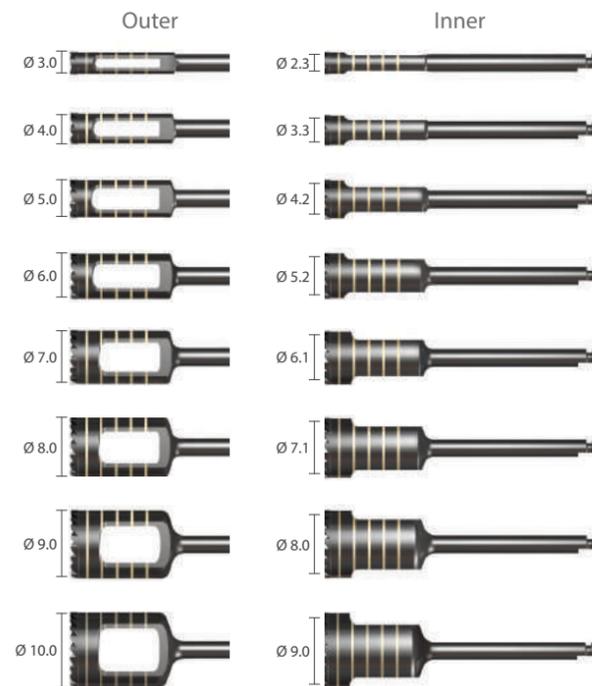
XIT

Kit Includes

| | | | |
|-----------|-----------|-----------|-----------|
| XTP 24 03 | XTP 34 04 | XTP 44 05 | XTP 54 06 |
| XTP 64 07 | XTP 74 08 | XTP 84 09 | XTP 94 10 |

Trephine Bur

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

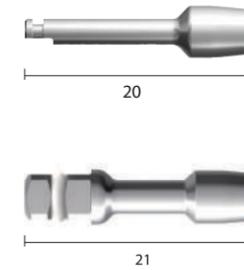


Instrument

Unit: mm, Scale 1 : 1.5

Adapter For screw abutment

| Type | Art. No. |
|---------------|----------|
| Hand-piece | XMAA1 |
| Torque Wrench | XMA 21W |



Screw Drill

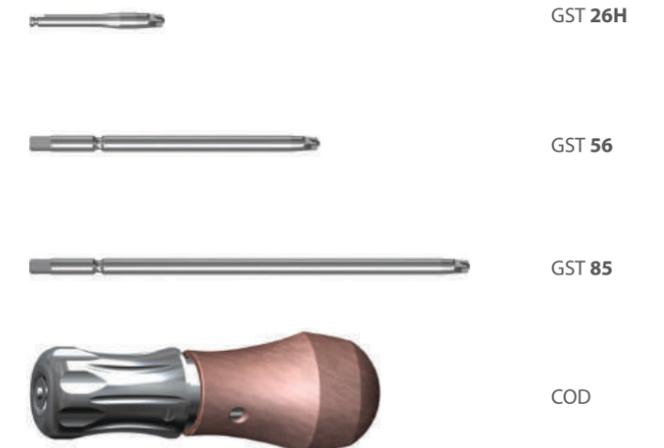
| Diameter | Art. No. |
|----------|----------|
| Ø1.2 | GMD 1228 |



Membrane screw insertion tool

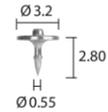
[Unit: mm, Scale 1 : 0.7]

| Art. No. |
|----------|
| GST26H |
| GST56 |
| GST85 |
| COD |

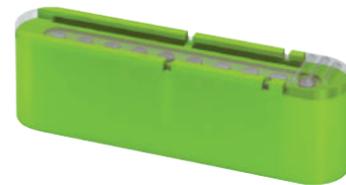


Membrane Pins

Unit: mm, Scale 1 : 2



| L | Art. No. |
|------|----------|
| 2.80 | GMT3225 |



Pin case | Pin 10ea included



| L | Art. No. |
|-------|----------|
| 125.0 | GMNT |



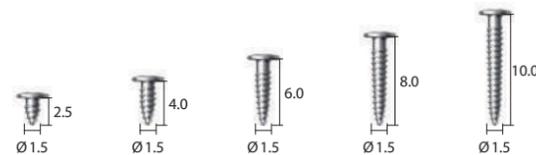
Membrane Pin with insertion tool

Membrane Screws

Unit: mm, Scale 1 : 2

Screw

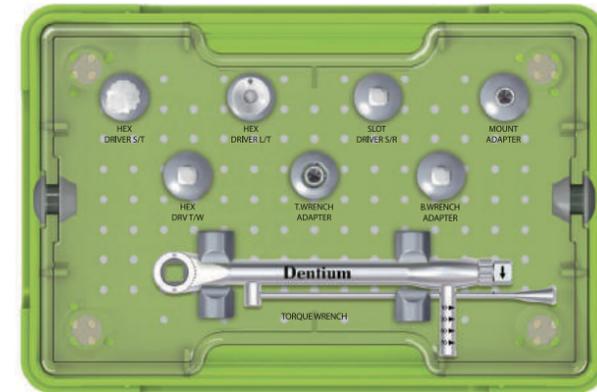
| L | Art. No. |
|------|-----------|
| 2.5 | GSC 15 02 |
| 4.0 | GSC 15 04 |
| 6.0 | GSC 15 06 |
| 8.0 | GSC 15 08 |
| 10.0 | GSC 15 10 |



Screw case | Screw 10ea included

Prosthetic Kit

Unit: mm, Scale 1 : 1



XIP

Hex Driver

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



Adapter

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



Slot Driver

SDA 25 R



Torque Wrench

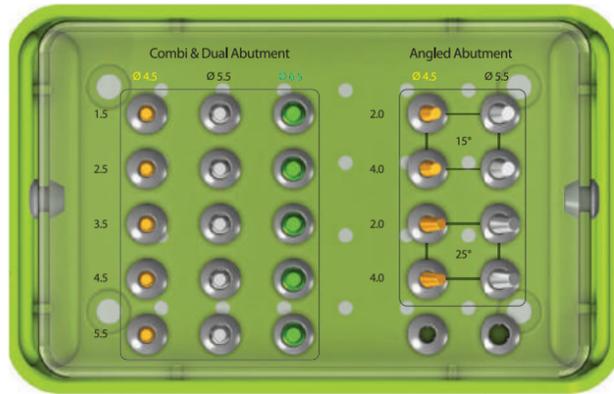
Scale 0.7 : 1

XNTW



Planning Kit

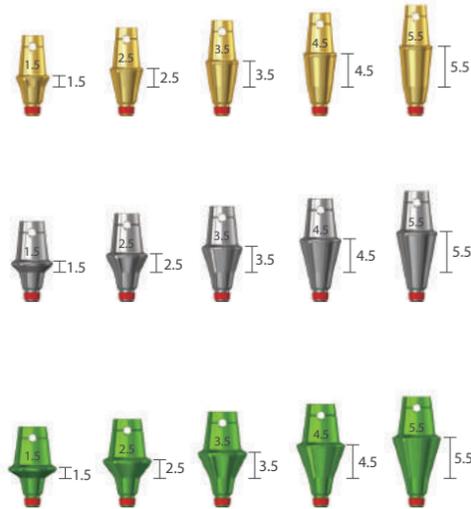
Unit: mm, Scale 1 : 1



XPK

For Combi & Dual Abutment

| Diameter | G/H | Art. No. |
|----------|-----|------------|
| Ø 4.5 | 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 |
| Ø 5.5 | 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 |
| Ø 6.5 | 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 |



For Angled Abutment

| Angled | Diameter | G/H | Art. No. |
|--------|----------|-----|---------------|
| 15° | Ø 4.5 | 2.0 | PAAB 15 45 20 |
| | | 4.0 | PAAB 15 45 40 |
| | Ø 5.5 | 2.0 | PAAB 15 55 20 |
| | | 4.0 | PAAB 15 55 40 |
| 25° | Ø 4.5 | 2.0 | PAAB 25 45 20 |
| | | 4.0 | PAAB 25 45 40 |
| | Ø 5.5 | 2.0 | PAAB 25 55 20 |
| | | 4.0 | PAAB25 55 40 |

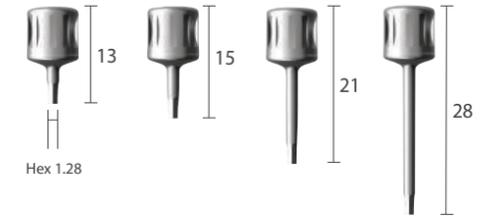


Prosthetic and Laboratory Instrument

Unit: mm, Scale 1 : 1

Hex Driver

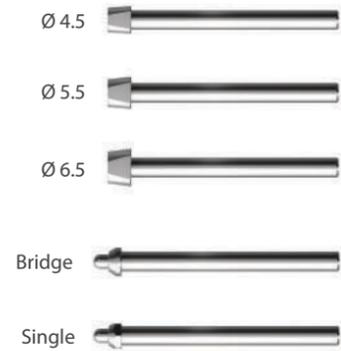
| Hex | L | Art. No. |
|------|----|----------|
| 1.28 | 13 | XHD 13 |
| | 15 | XHD 15 |
| | 21 | XHD 21 |
| | 28 | XHD 28 |



Reamer Guide

| Application | Diameter | Art. No. |
|-----------------------|----------|----------|
| Combi / Dual Abutment | Ø 4.5 | CRG 45 L |
| | Ø 5.5 | CRG 55 L |
| | Ø 6.5 | CRG 65 L |

| Application | Type | Art. No. |
|----------------|--------|----------|
| Screw Abutment | Bridge | SRG BL |
| | Single | SRG SL |



Reamer Handle

Scale 0.5 : 1

| |
|-----|
| CRH |
|-----|



Hand Wrench

| |
|-----|
| XHW |
|-----|



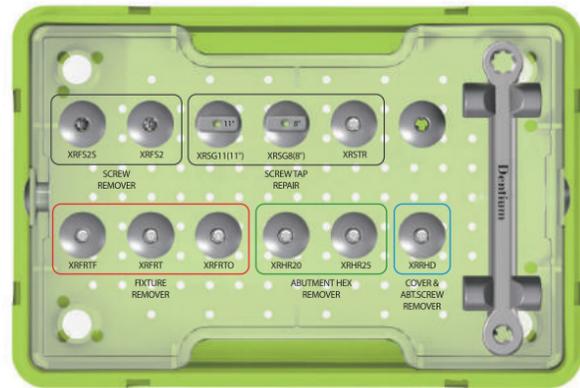
Reamer

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



Help Kit

Unit: mm, Scale 1 : 1



XIH

Screw Remover

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

Screw Tap Repair

| Type | Art. No. |
|-----------|----------|
| Tap | XRSTR |
| 11° Guide | XRSG 11 |
| 8° Guide | XRSG 8 |

Fixture Remover

| Type | Art. No. |
|------|----------|
| - | XRFRF |
| 11° | XRFRTF |
| 8° | XRFRTO |

Abutment Hex Remover

| L | Art. No. |
|----|----------|
| 20 | XRHR 20 |
| 25 | XRHR 25 |

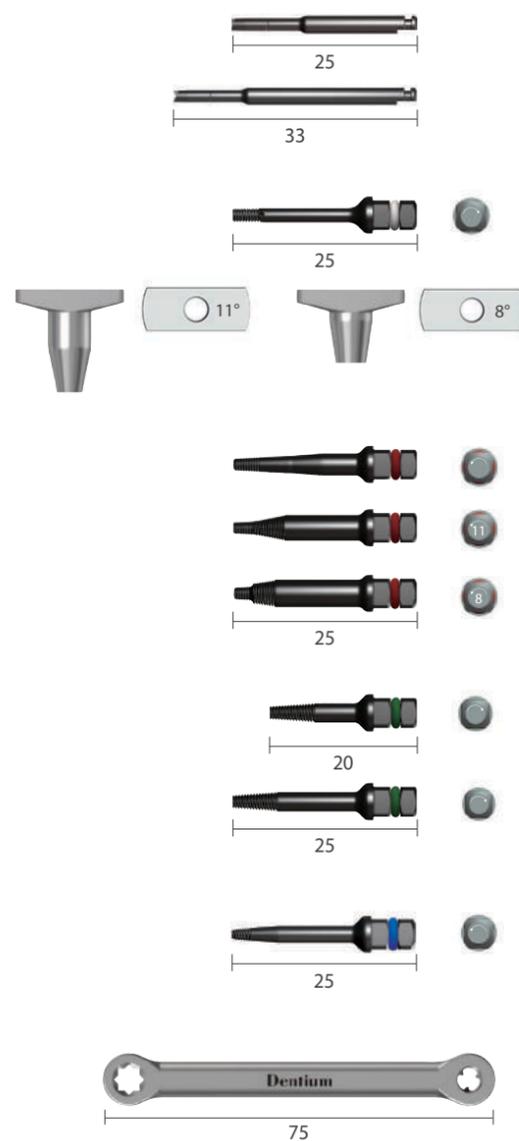
Cover & Abutment Screw Remover

| L | Art. No. |
|----|----------|
| 25 | XRRHD |

Wrench

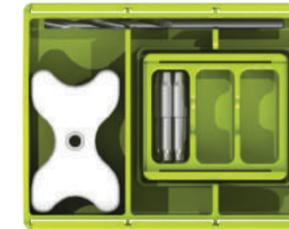
Scale 1 : 0.7

XRFRW



Polymer Guide Kit

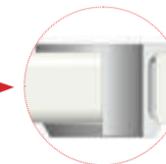
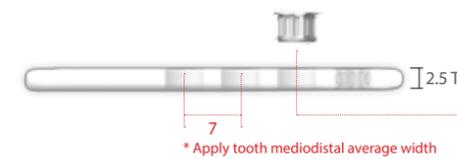
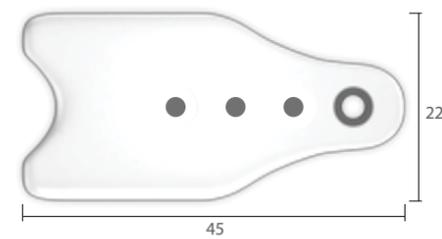
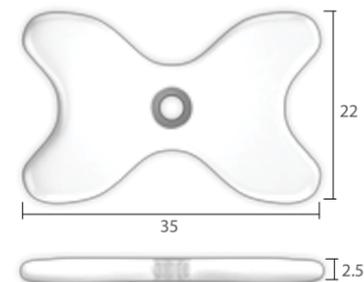
Unit: mm, Scale 1 : 1



PGSSK



PGSCK



* 1 fixed Sleeve + 3 additional Sleeve Hole

Single Standard (5ea)

| T | Art. No. |
|-----|-------------|
| 2.5 | XSG 34 35 S |

Cantilever Multi-Ready (5ea)

| T | Art. No. |
|-----|-------------|
| 2.5 | XSG 34 45 C |

· Stone Drill



XGD 23 60 (1ea)

· Guide Pin



XGP 34 23 S (5ea)

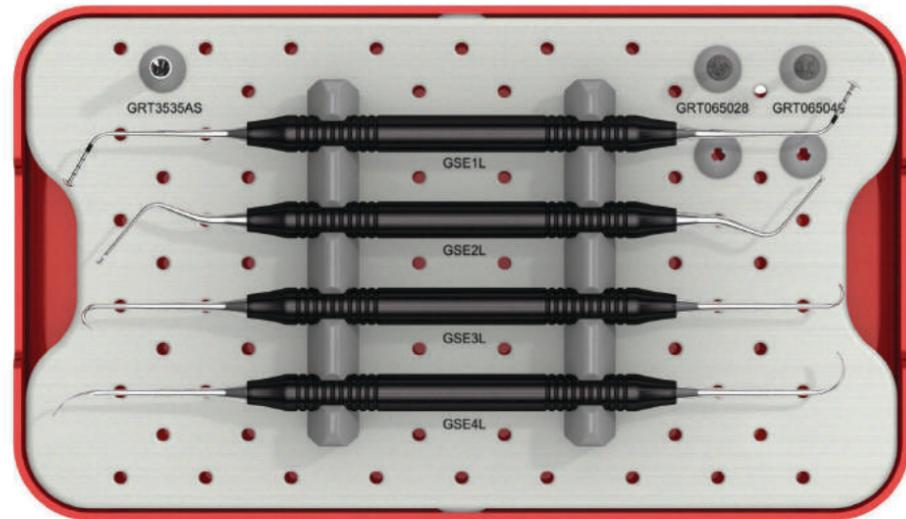
· Additional Metal Sleeve (for Cantilever Multi-Ready)



XPGS 34 25 A (5ea)

Sinus Kit

Unit: mm, Scale 1 : 1



GSEK

Crestal Drill

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



Lateral Drill

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

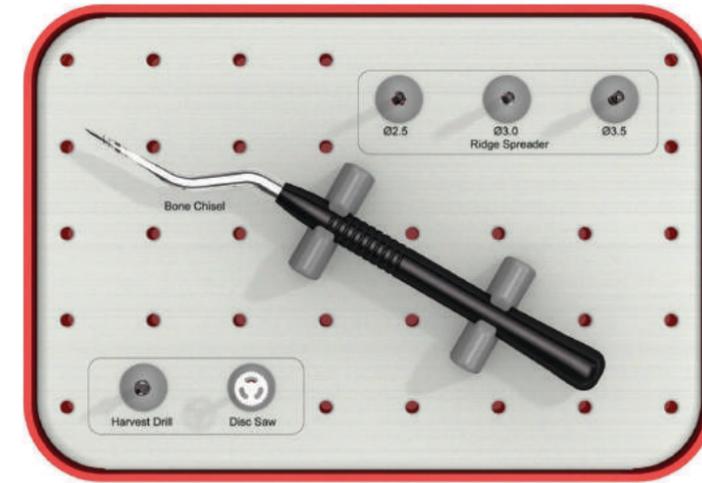


Sinus Curette Scale 1 : 2 / mm



Ridge Expander Kit

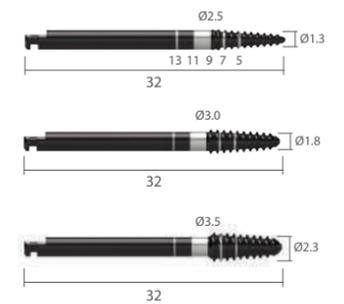
Unit: mm, Scale 1 : 1



GREK

Ridge Spreader

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



Harvest Drill

| Diameter | L | Art No. |
|----------|----|-----------|
| Ø3.0 | 29 | GHD 30 29 |



Disc Saw

| Diameter | L | Art No. |
|----------|----|-----------|
| Ø8.0 | 25 | GDS 80 25 |



Bone Chisel

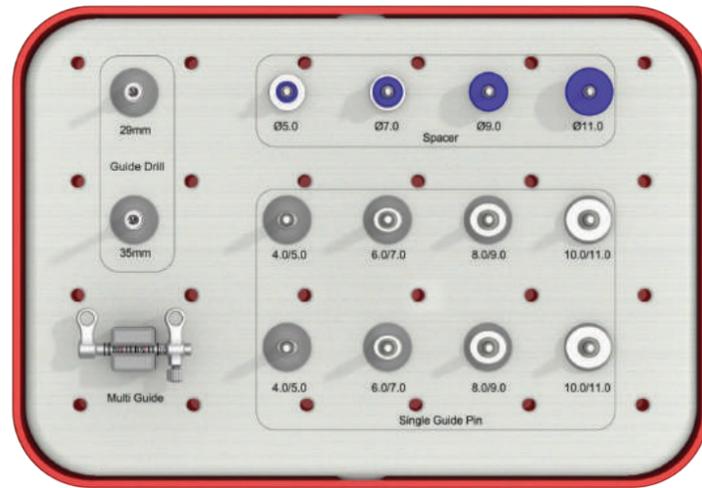
| Art No. | GBC 18 45 13 |
|---------|--------------|
|---------|--------------|



5
7
9
11
13

Implant Guide Kit

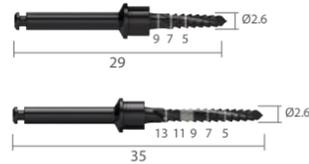
Unit: mm, Scale 1 : 1



GIGK

Guide Drill

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



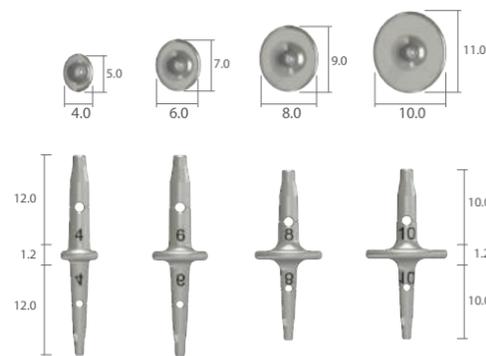
Spacer

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



Single Guide Pin

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



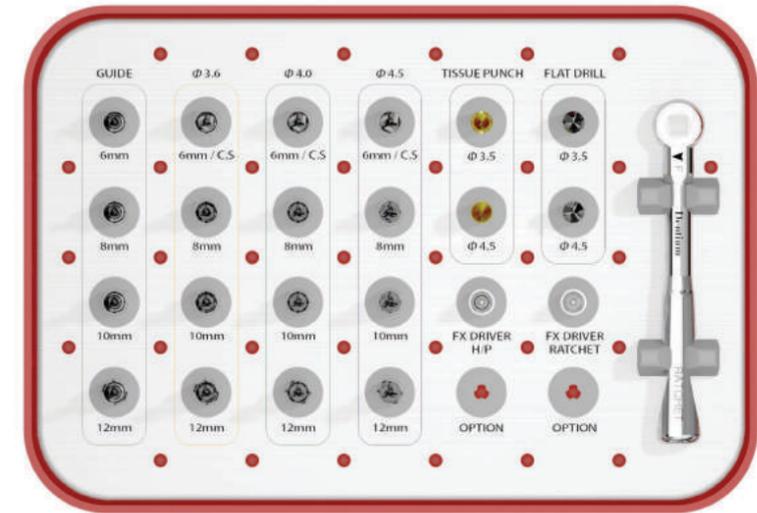
Multi Guide

| Art No. | Art No. |
|---------|---------|
| | GMG2 |



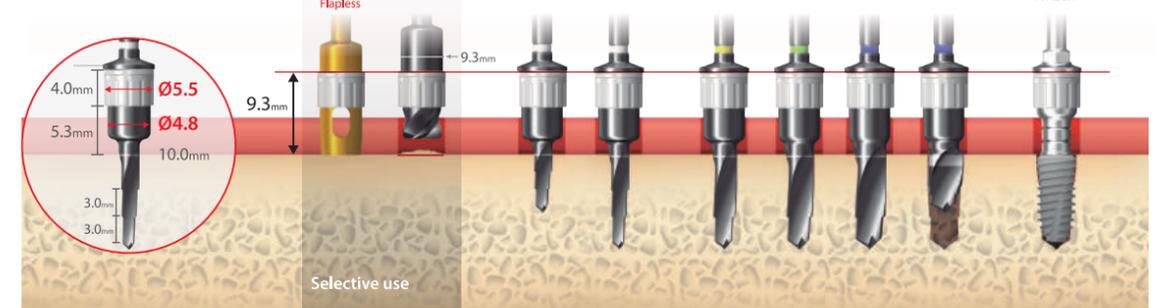
Digital Full Kit

Unit: mm, Scale 1 : 1

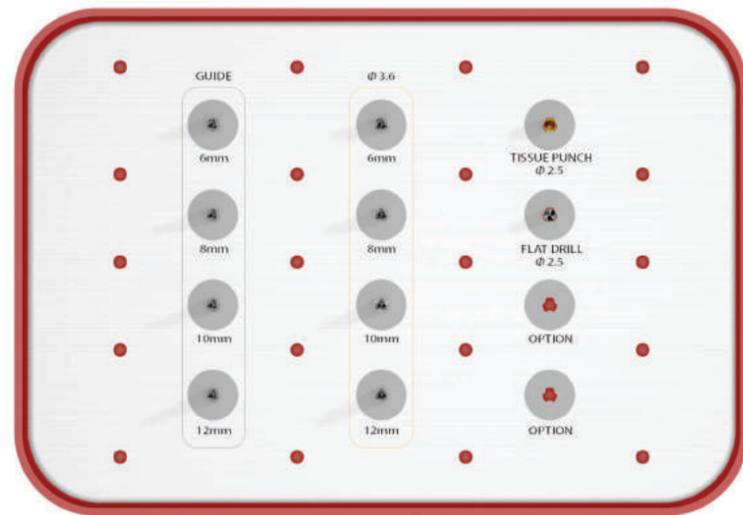


XGSFK

SuperLine FX4510SW Guided drilling Sequence



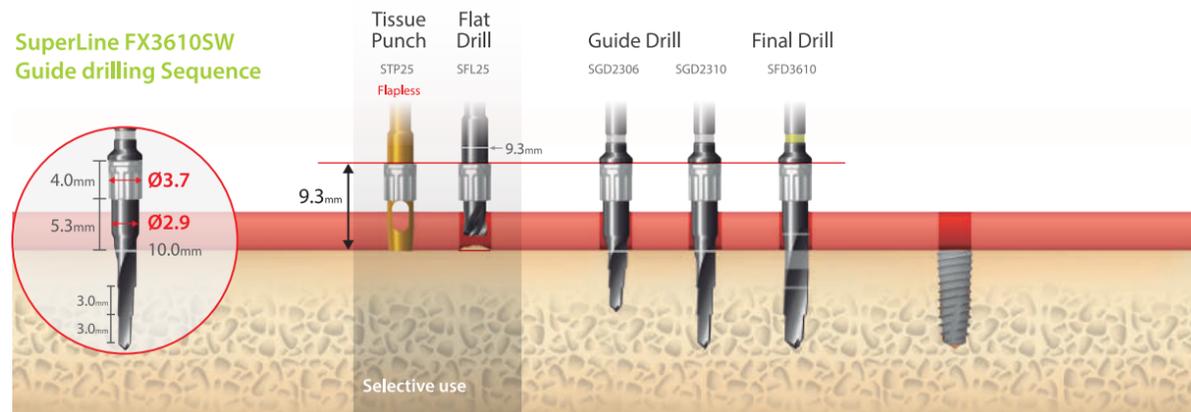
Digital Simple Kit



Unit: mm, Scale 1 : 1

XGSSK

SuperLine FX3610SW Guide drilling Sequence

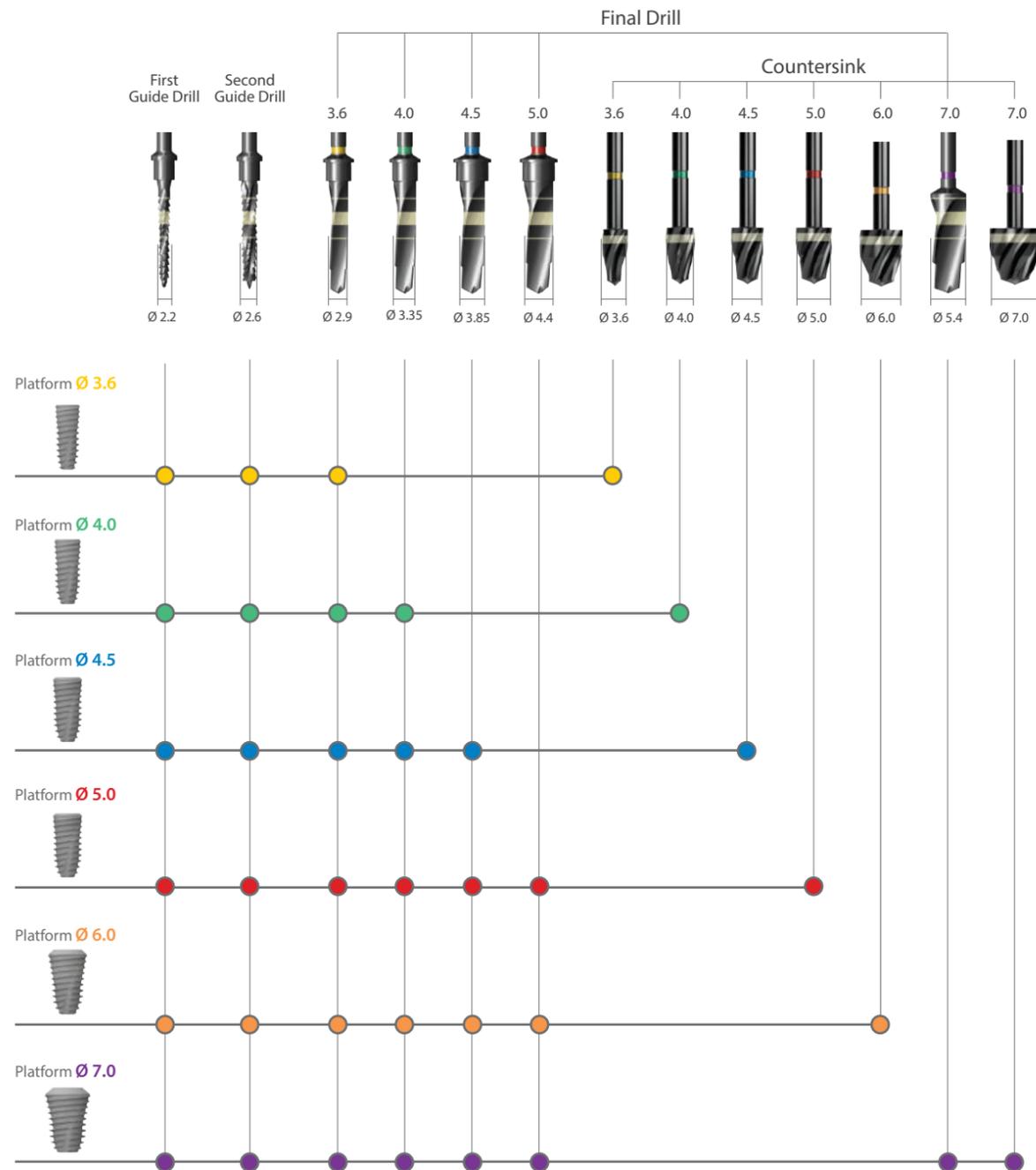


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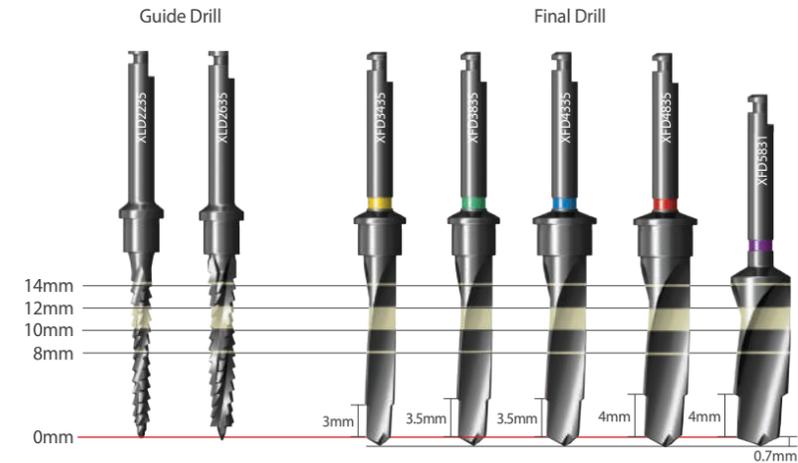
Surgical Drill Sequence I

Drilling Sequence Guide (Final Drill)



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

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



Determination of Fixture Top Level

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

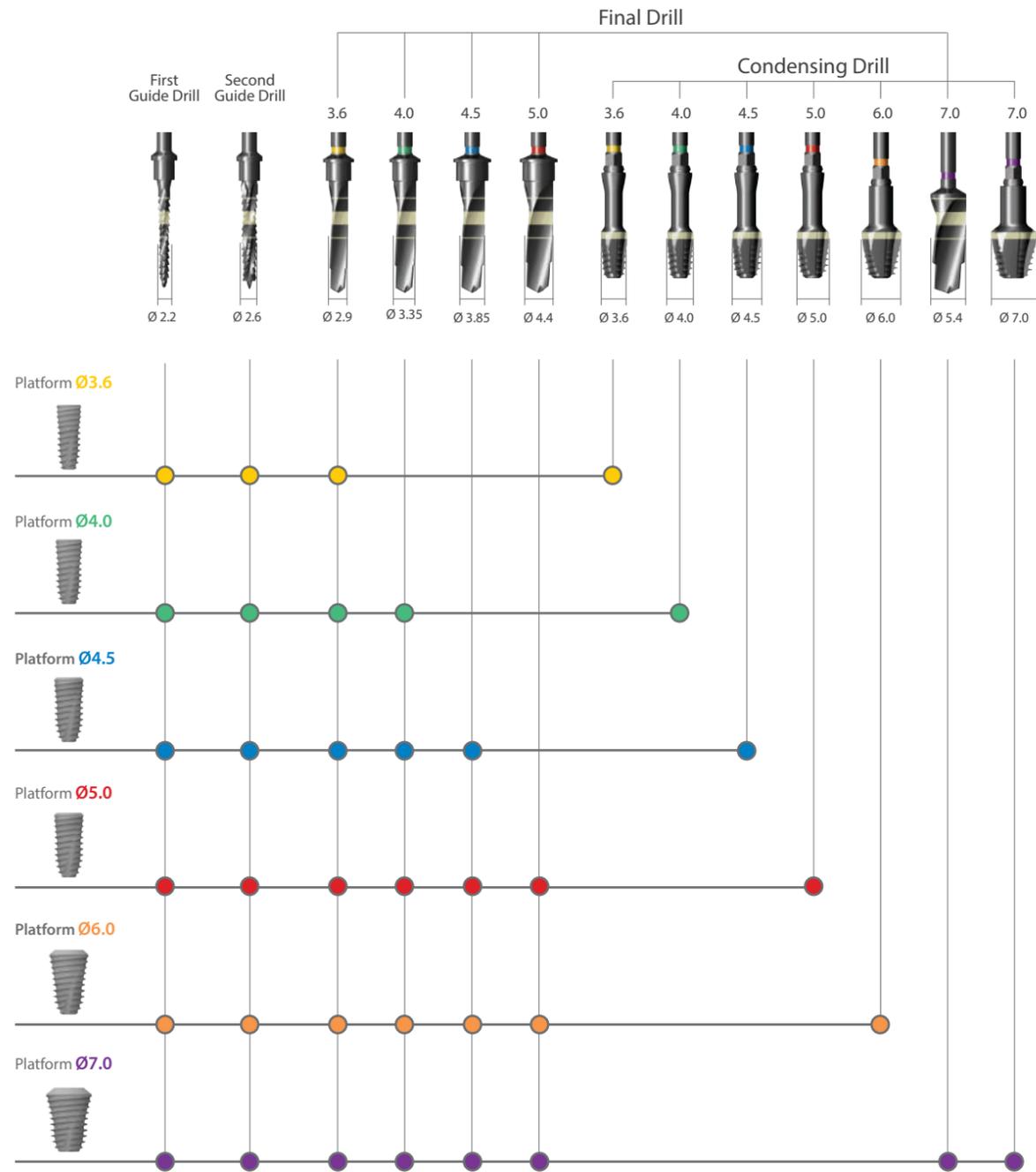


Depth Indication

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

Surgical Drill Sequence II

Drilling Sequence Guide (Condensing Drill)



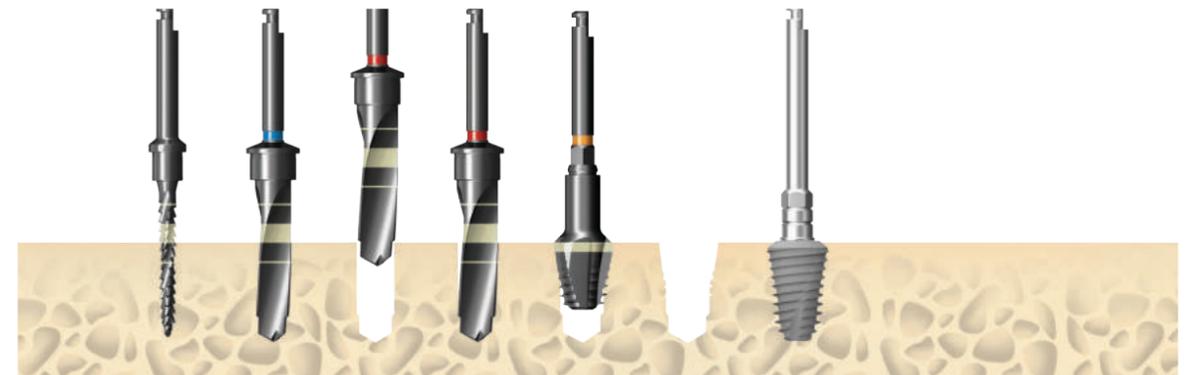
Condensing Drill

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

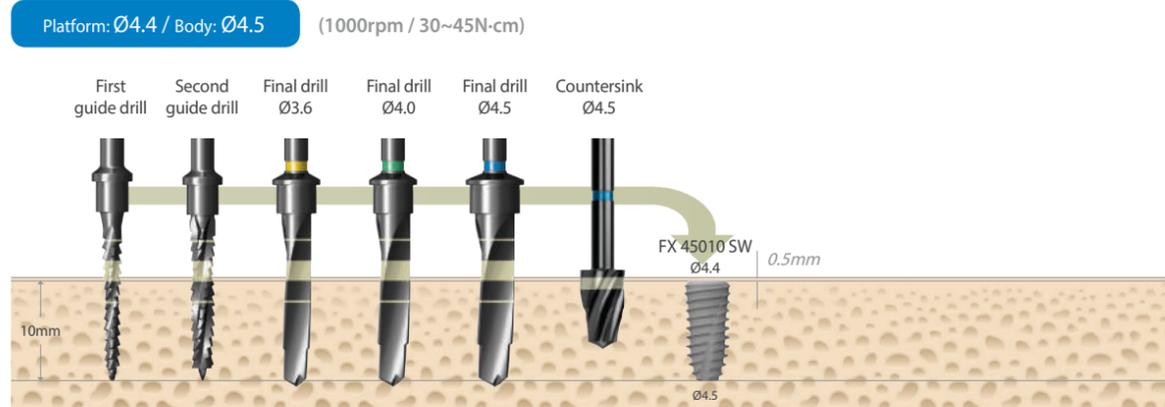
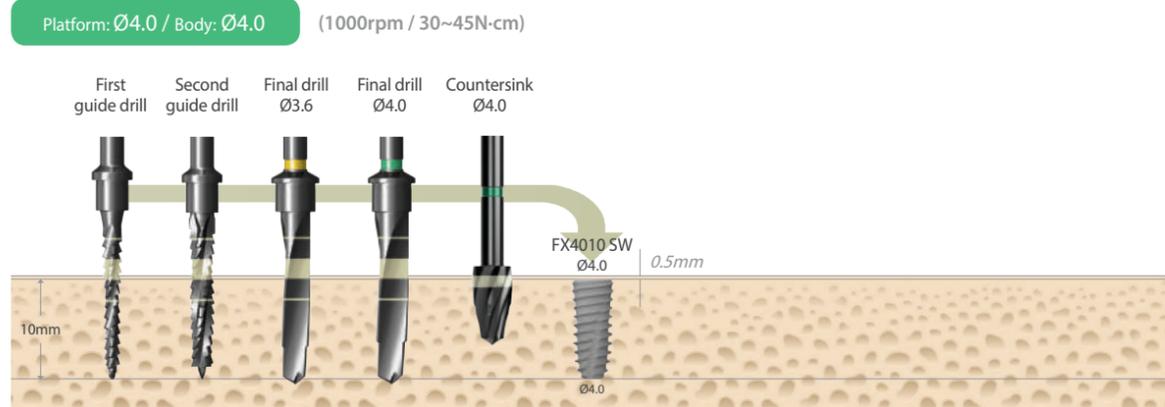
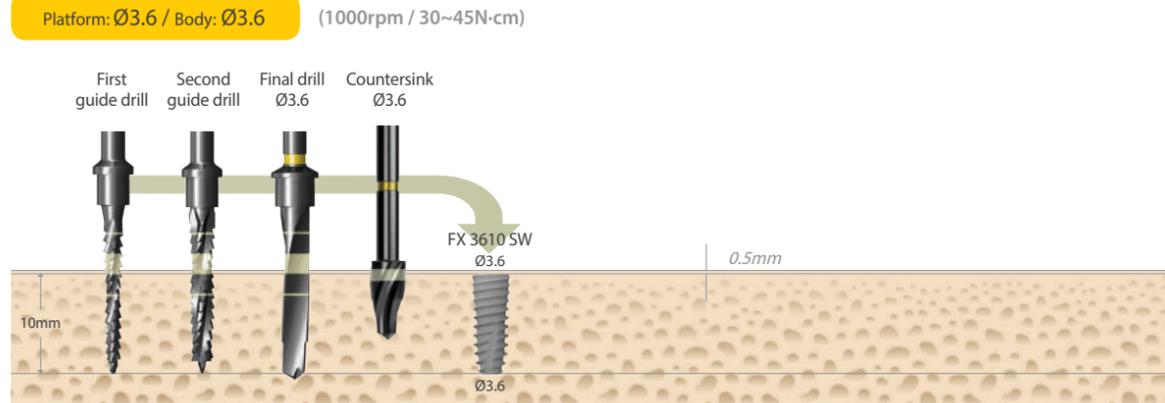


Early loading with precise tap drill

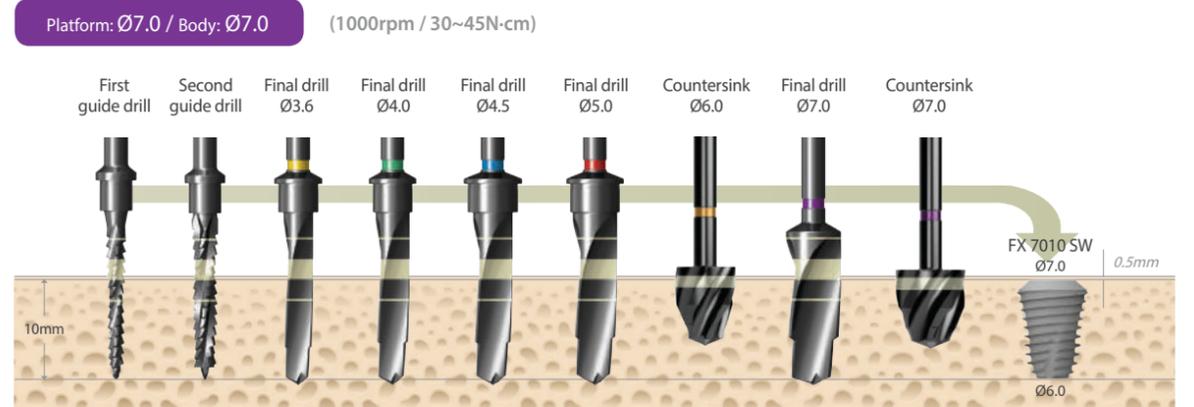
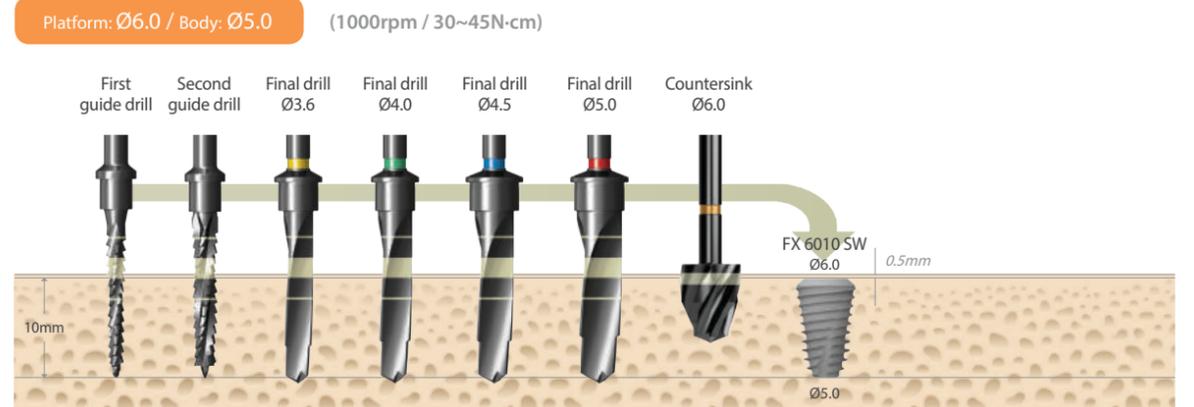
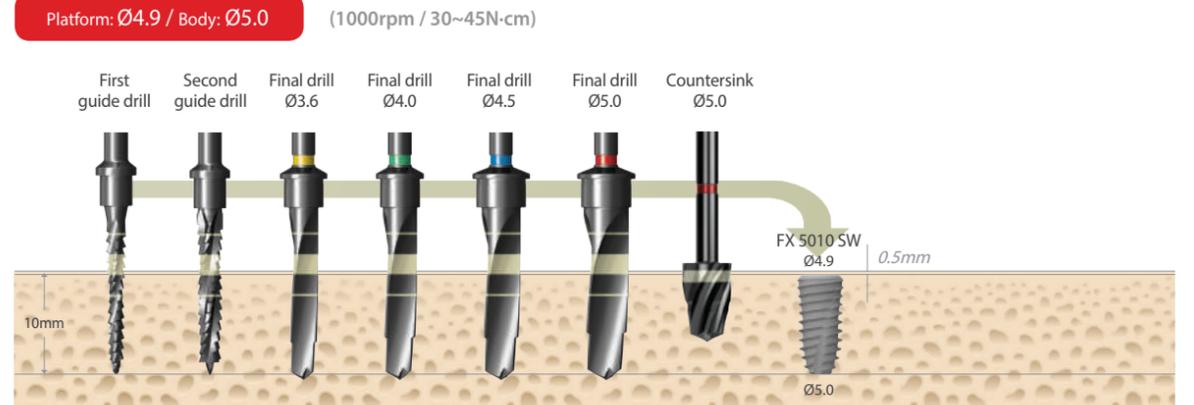
- Tap drills for exquisite surgery to enable early loading.
- Smooth and precise surgery with tap drill in type 1~2 bone
- 4mm of tapping depth for optimum torque control.



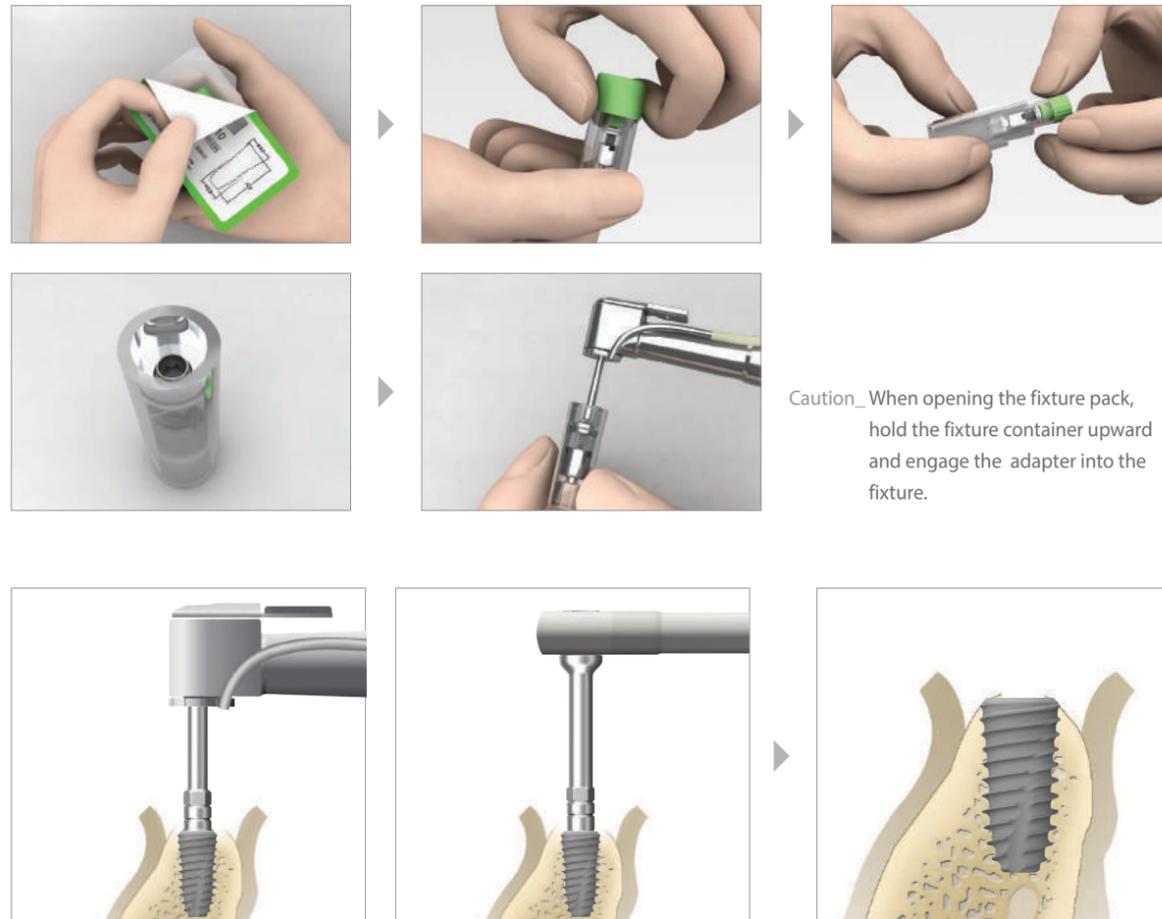
Drilling Depth Guide



Drilling Depth Guide



Fixture Connection



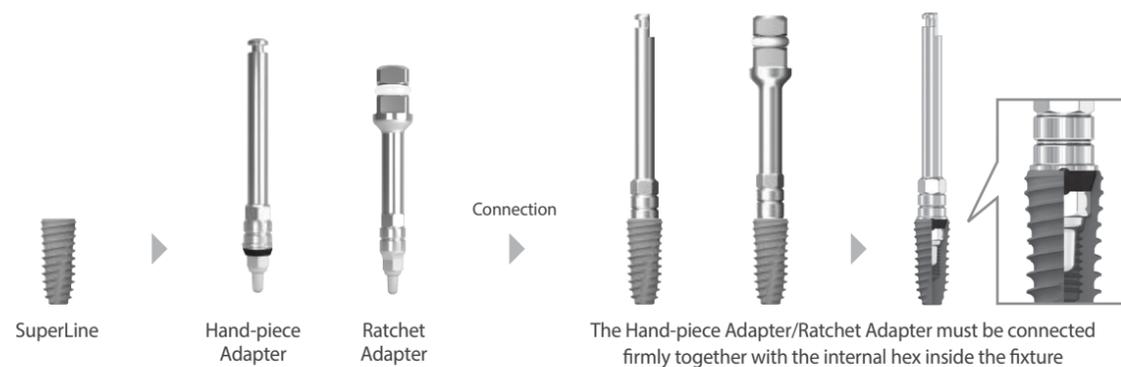
Caution_ When opening the fixture pack, hold the fixture container upward and engage the adapter into the fixture.



By hand-piece
20rpm / 35 N-cm

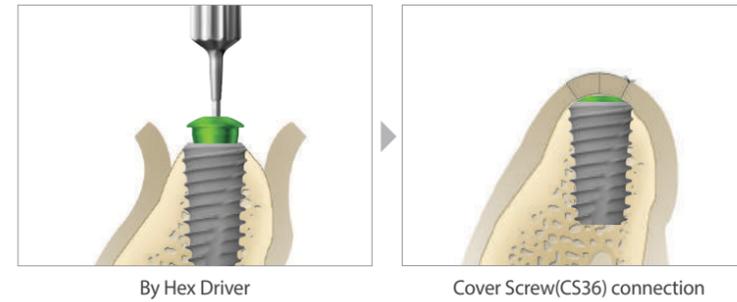
By ratchet

Directions Using the Hand-piece / Ratchet Adapter



Installation Procedure & Warnings

Cover Screw



By Hex Driver

Cover Screw(CS36) connection

Healing Abutment



By Hex Driver

Healing Abutment connection

Healing Abutment (HAB402020L) connection in thin gingiva

Warnings

- Dental Implant surgery and restoration involve complex dental procedures. Appropriate and adequate training in proper technique is strongly recommended prior to use.
- Improper medical examination and/or treatment plan can result in implant failure and/or loss of supportive bone.
 - Improper initial stability and/or excessive occlusal forces during healing period may lead to 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.

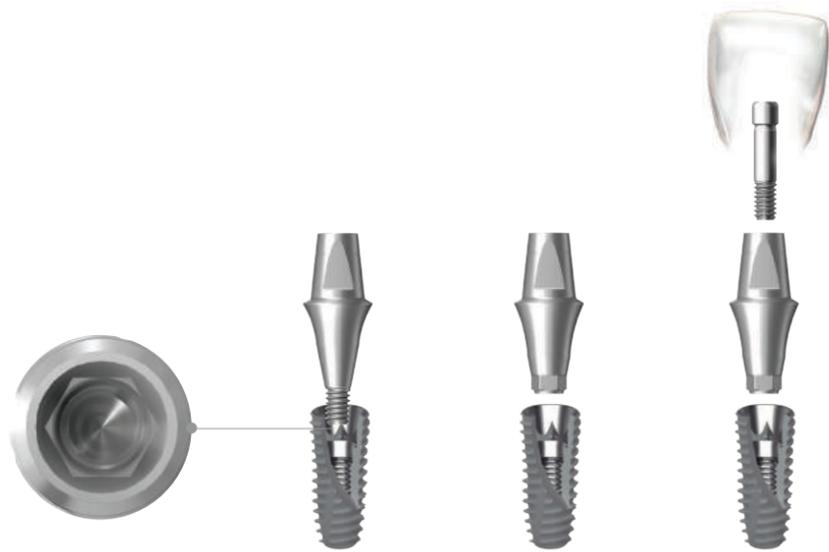
All autoclaves/sterilizers should be regularly validated, maintained and checked in accordance with EN 285/EN 13060, EN ISO 17665, ANSI AAMI ST79 to ensure compliance with these and related standards. Make sure packaging is suitable for steam sterilization.

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

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)

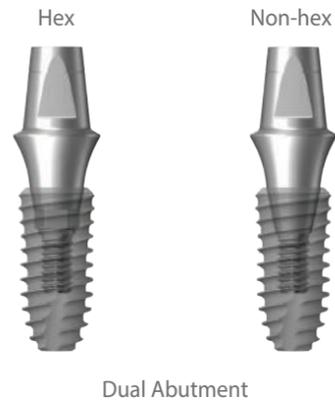
- | | | |
|---|-------|---------------------------------|
| · Dual Abutment | _____ | Abutment level |
| · Combi Abutment | | |
| · Dual Abutment | _____ | Fixture level |
| · Dual Milling Abutment | | |
| · Angled Abutment (15°/25°) | | |
| · Direct-Casting Abutment | | |
| · Metal-Casting Abutment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

Types of Abutment

| One-Piece | Two-Pieces | |
|--|--|--|
|  Combi Abutment |  Hex Non-hex Dual Abutment |  Hex Non-hex Milling Abutment |
|  Screw Abutment |  (15°) Hex Non-hex Angled Abutment |  Custom Abutment |
|  (20°) Hex Non-hex Angled Screw Abutment |  (25°) Hex Non-hex Angled Abutment |  Hex Non-hex Direct-Casting Abutment |
|  Cylinder |  Hex Non-hex Metal-Casting Abutment |  Titanium Plastic Hex Non-hex Hex Non-hex Temporary Abutment |
| 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.

Dual Abutment



- It is possible to take an impression at both fixture level and abutment level. (A Dual Abutment may be interchangeable with a Combi Abutment)
- For abutment level impressions, the same prosthetic procedures apply to both Dual and Combi Abutments.
- For fixture level impressions, the abutment selection takes place on the master model.
- For fixture level impressions, a precise positioning jig for abutment may be required.
- Either hex or non-hex abutments may be used, according to operator's preference.

* If a cement retained restoration requires retrieval, cutting a hole in the occlusal surface would allow access to the screw to permit removal.

Hex / Non-hex

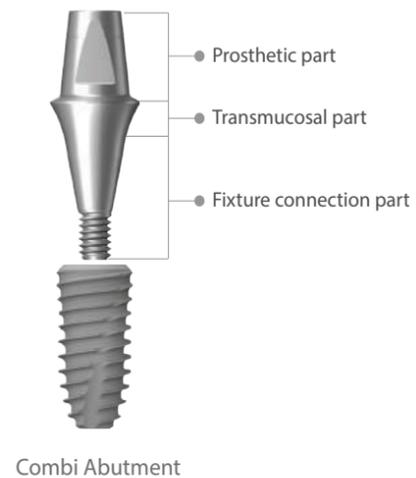
| | Hex | Non-hex |
|-----------------|-------------|-------------|
| Positioning Jig | Unnecessary | Required |
| Radiograph | Unnecessary | Unnecessary |

Dual Abutment Line Up (Hex / Non-hex)

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



Combi Abutment



- The Combi Abutment is used when the implant position is optimal.
- If the abutment selection is made in the mouth, gauge the thickness of mucosa with the depth gauge to measure the gingival height thus allowing the appropriate abutment height.
- The Impression is taken with the snap cap.
- When using the Combi Abutment, it remains in the mouth after the impression is taken. (Do not remove or change its position)
- Tighten abutment screw to 25 - 35 N-cm. (retighten again before seating final prosthesis).

* If the Combi Abutment is too long it can be adjusted 1.5mm to the bottom of the laser mark on the vertical stack of the abutment. The Combi Abutment has a short analog for the 1.5mm adjustment.

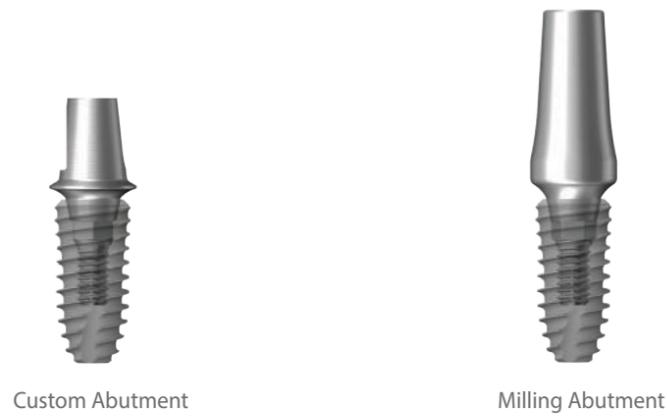
* A resin jig can be made to record the reduction if reduced more the 1.5mm.

Combi Abutment Line Up

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



Custom / Milling Abutment



Custom Abutment

Milling Abutment

Custom Abutment

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

| Diameter | G/H | Type |
|----------|--------------|---------------|
| Ø4.5 | 0.5mm, 1.5mm | Hex / Non-hex |
| Ø5.5 | 1.0mm, 2.0mm | |



Milling Abutment

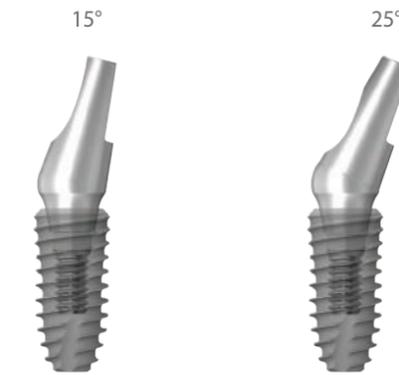
- Impression is taken at fixture level.
- When using a non-hex abutment a precise seating jig should be used.
- Either hex or non-hex abutments may be used, according to operators preference.

* If a cement retained restoration requires retrieval, cutting a hole in the occlusal surface would allow access to the screw for removal.

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



Angled Abutment

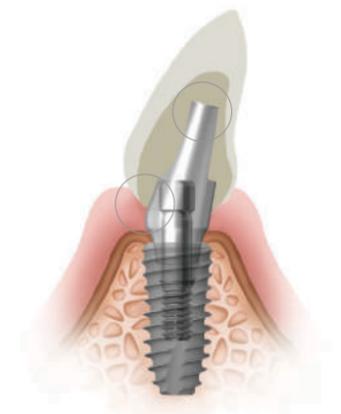


Angled Abutment

- 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.

Angled Abutment Line Up

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



Direct-Casting / Metal-Casting Abutment



Direct-Casting Abutment



Metal-Casting Abutment

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.

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



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.

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



Temporary Abutment



Ti-Temporary Abutment



Plastic Temporary Abutment

Temporary Abutment

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

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

Screw Abutment



Screw Abutment



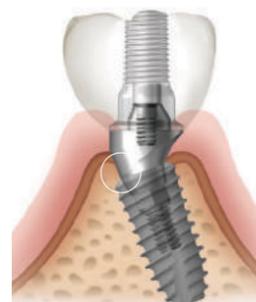
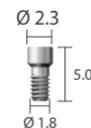
Angled Screw Abutment

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 Line Up

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

Angled Screw Abutment Line Up

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

Points to Consider in Abutment Selection

Considerations in Selecting an Abutment

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

Impression of Implant

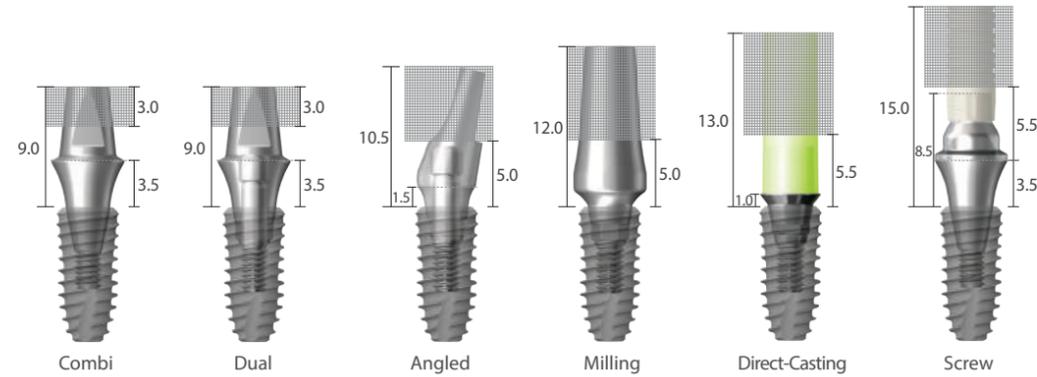
According to the case the impression can be taken at abutment or fixture level.

| 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 (20°) |
| 5. Metal-Casting Abutment | |
| 6. Temporary Abutment (Plastic & Titanium) | |

Abutment Impression Recommendation

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

Minimum Height Requirement for SuperLine Prosthetic Abutment



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

Maximum Amount of Reduction Allotted for SuperLine

Combi Abutment

- Eliminate 3.0mm from the top level Combi Abutment (laser marking:1.5mm)
- Caution _ Damage may be caused to the screw if the abutment is reduced to less than 2.5mm above the gingival height.

Dual Abutment

- Preparation of the abutment top is possible as follows.

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

Angled Abutment & Milling Abutment

- Preparation of the abutment top is possible as follows.

Direct-Casting Abutment & Metal-Casting Abutment

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

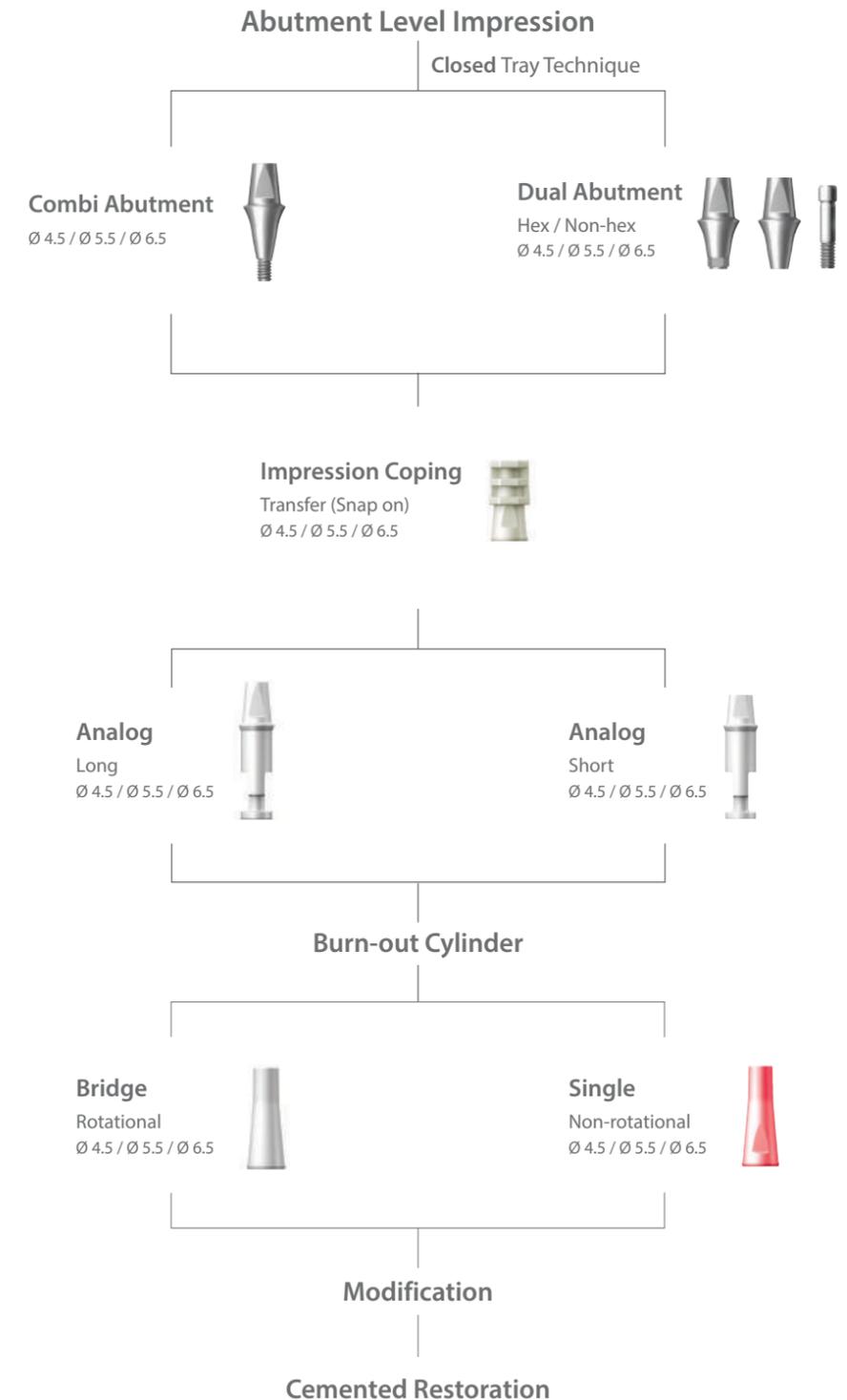
Direct-Casting Abutment & Metal-Casting Abutment

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

Prosthetic Procedure 1

Impression Technique and Restoration Selection

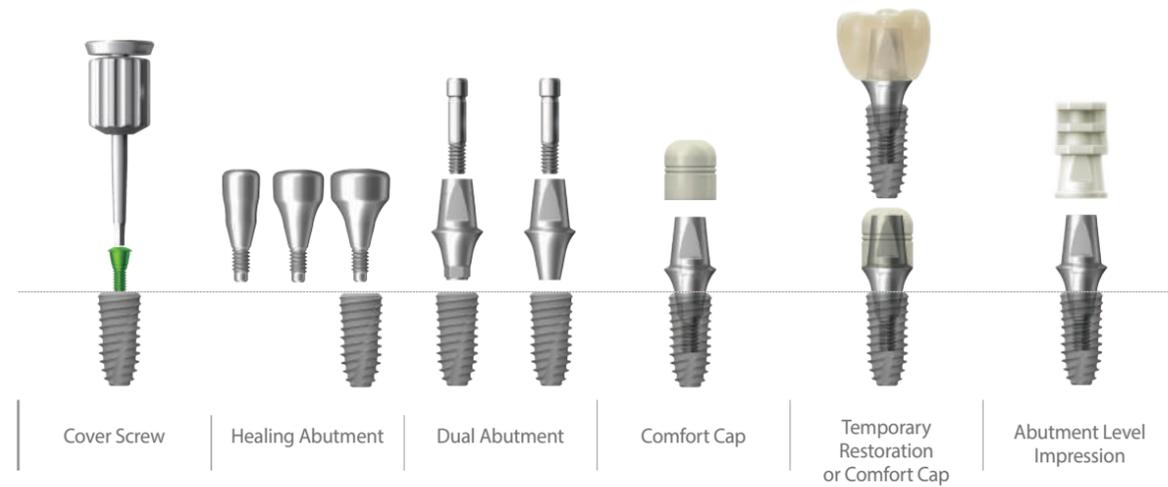
Dual / Combi Abutment



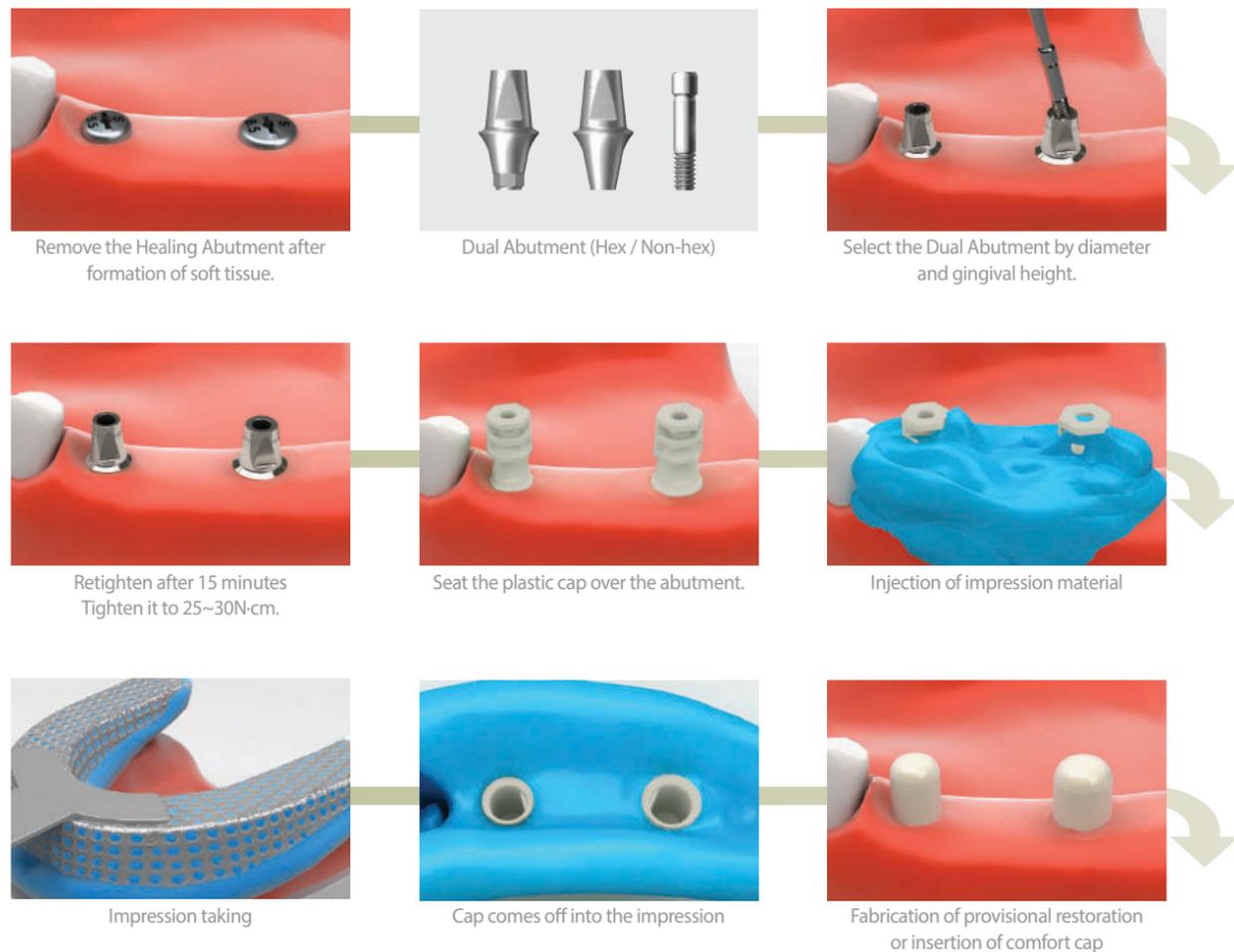
Abutment Level_Dual Abutment

[Multiple Units]

Clinical Procedure



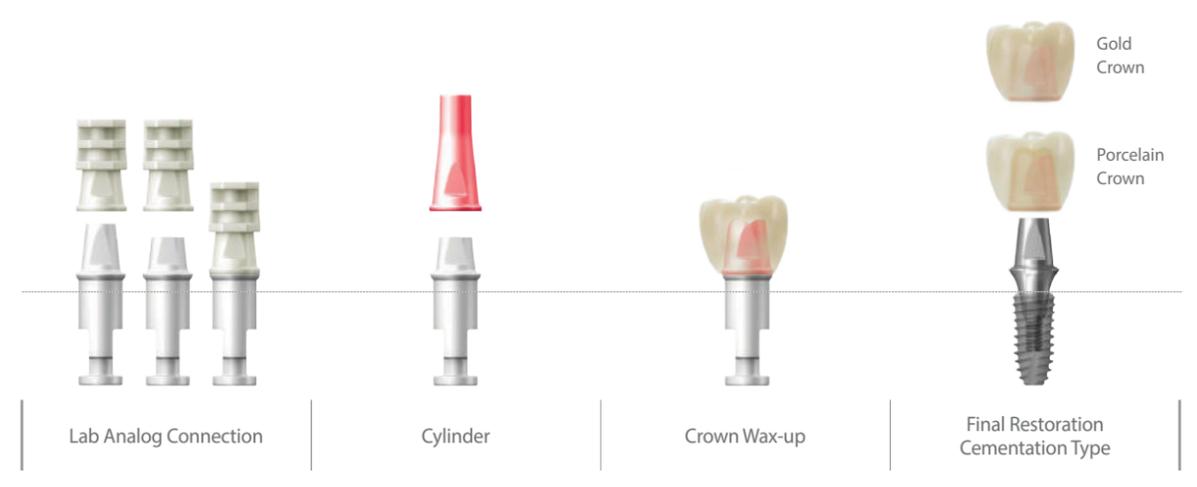
Chairside



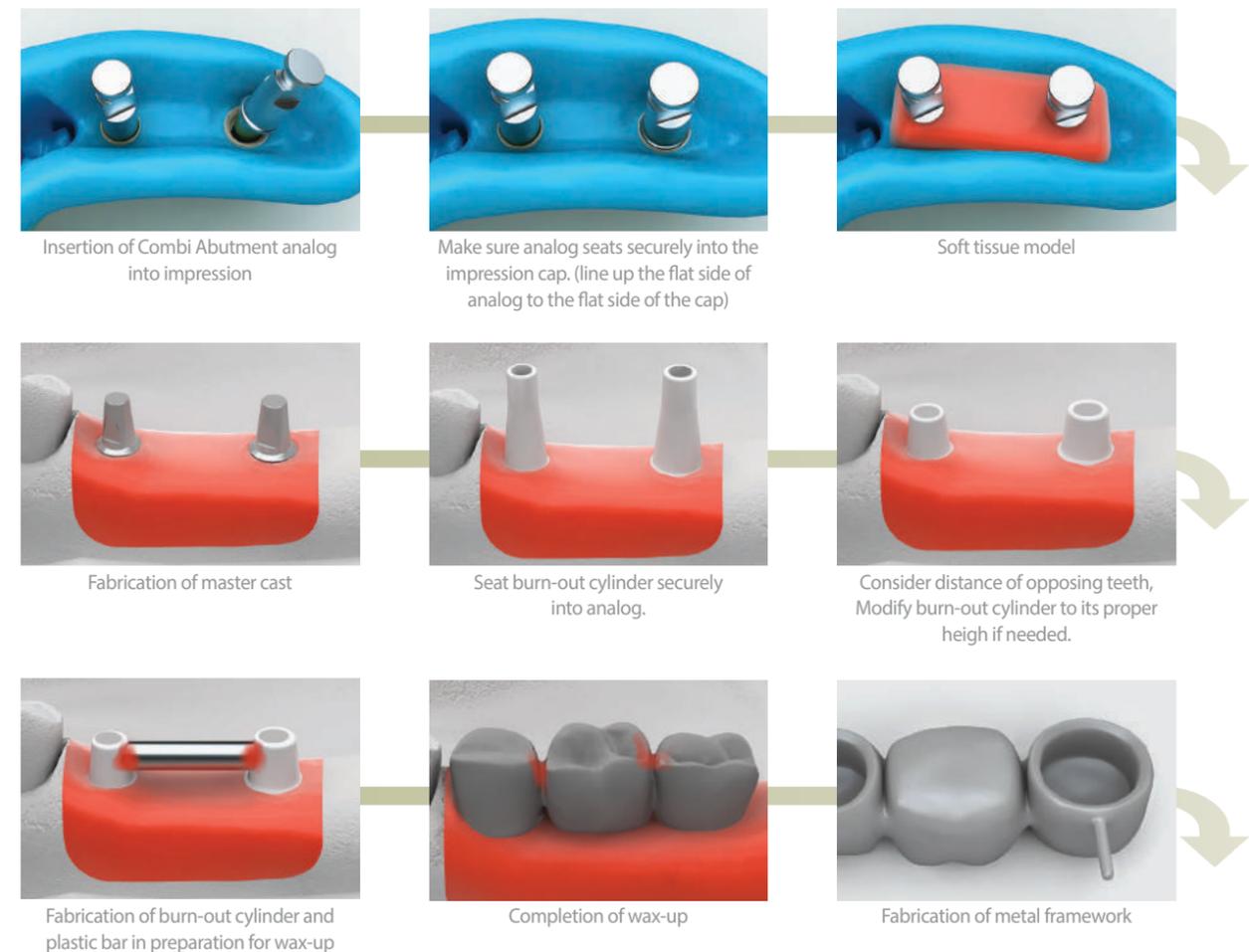
Abutment Level_Dual Abutment

[Multiple Units]

Clinical Procedure

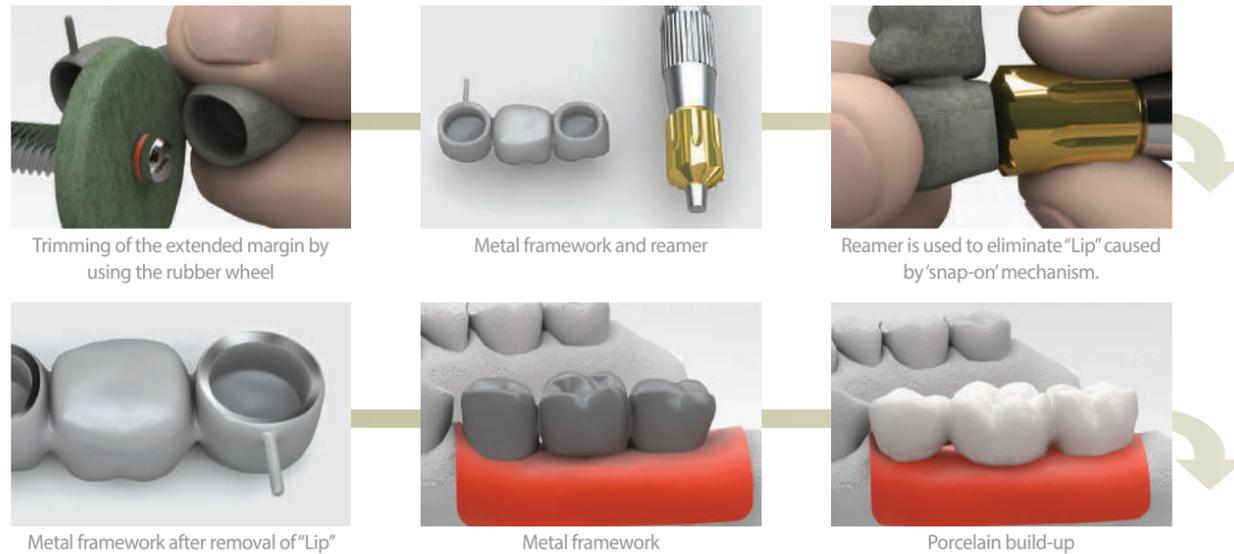


LabSide

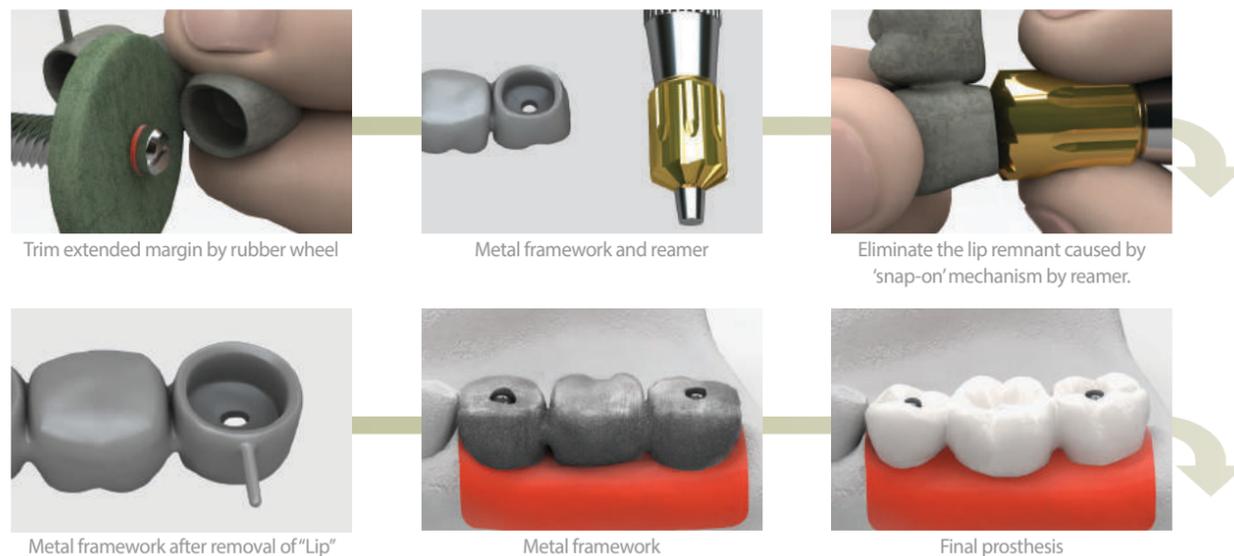


Abutment Level_Dual Abutment

[Multiple Units]

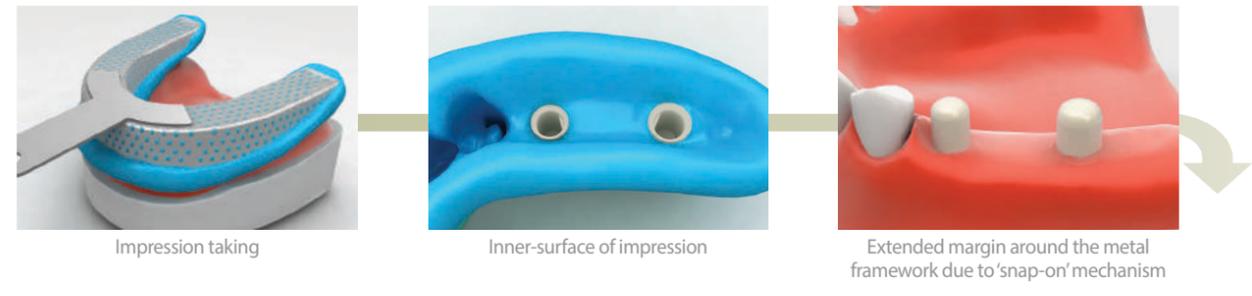
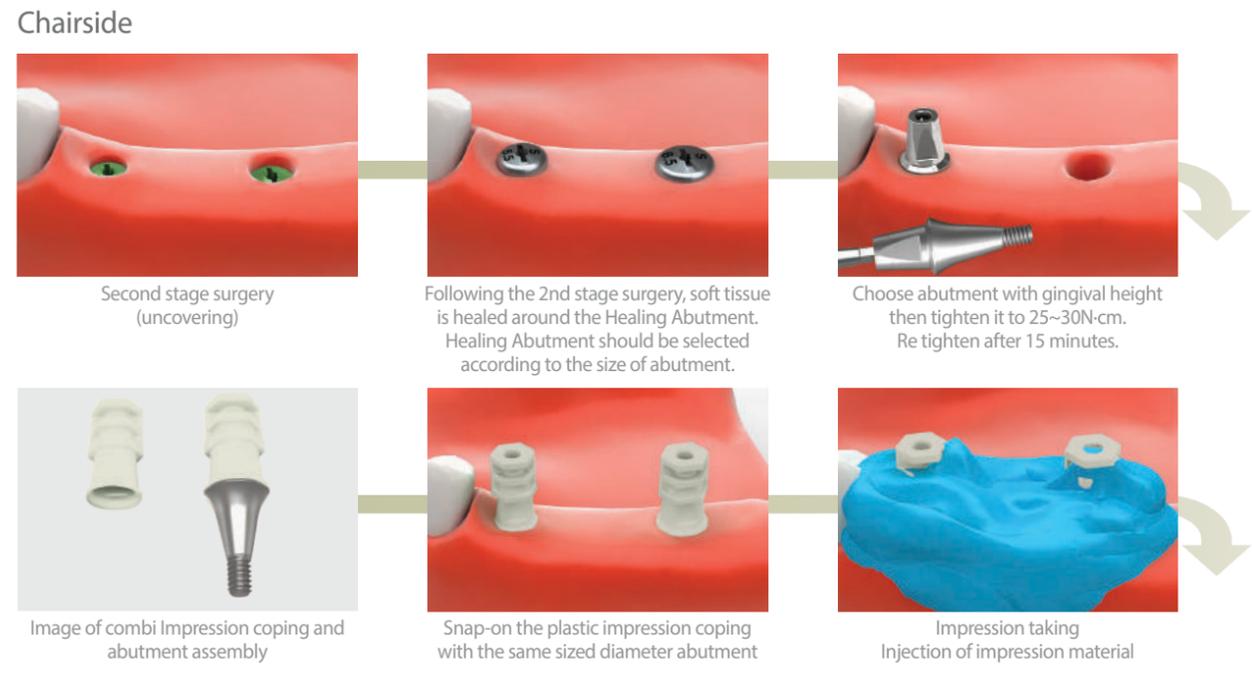


SCRIP: Once an access hole has been created, it can be converted to a SCRIP (Screw & Cemented Retained Prosthesis).



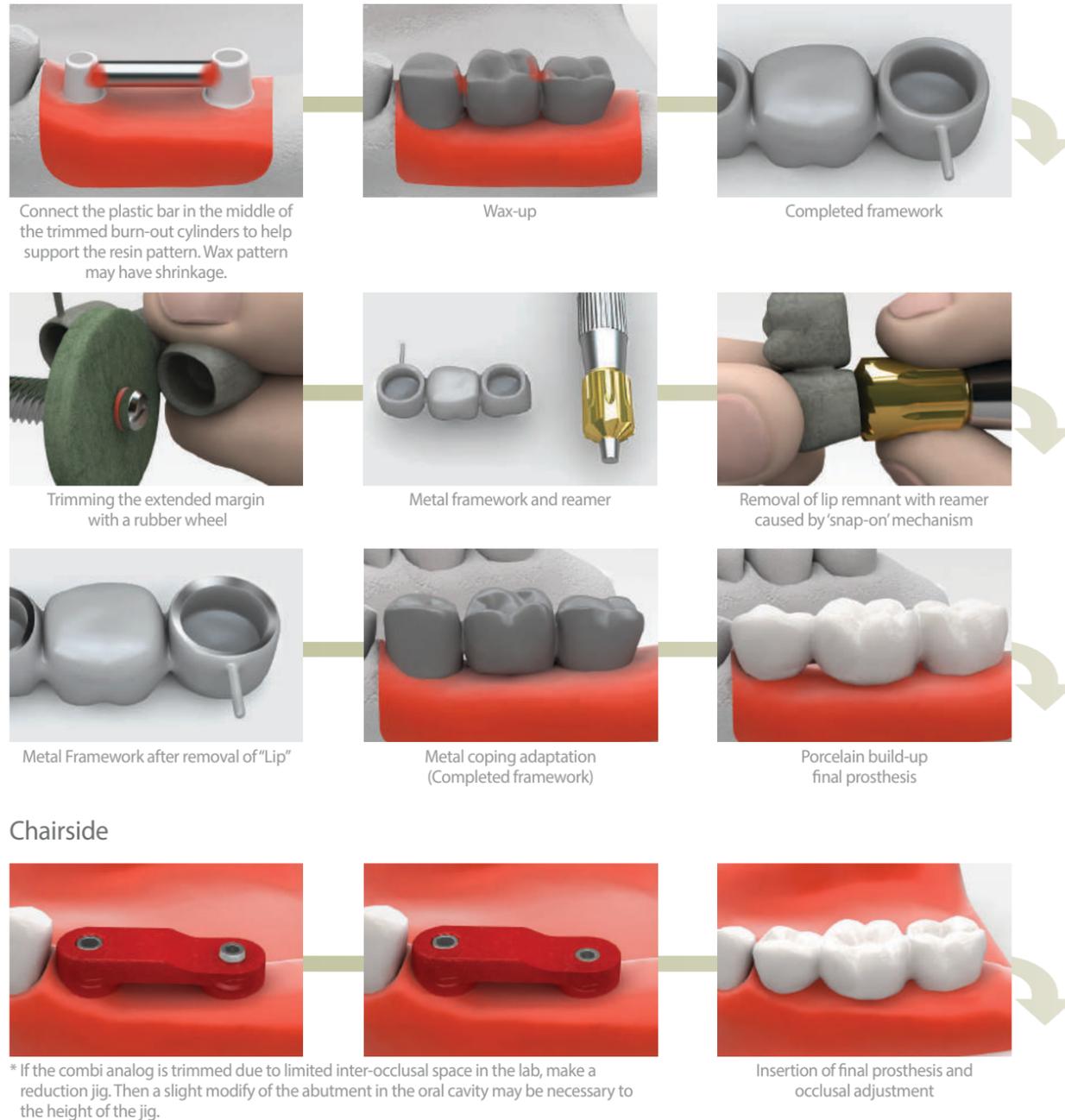
Abutment Level_Combi Abutment

[Multiple Units]



Abutment Level_Combi Abutment

[Multiple Units]



Chairside

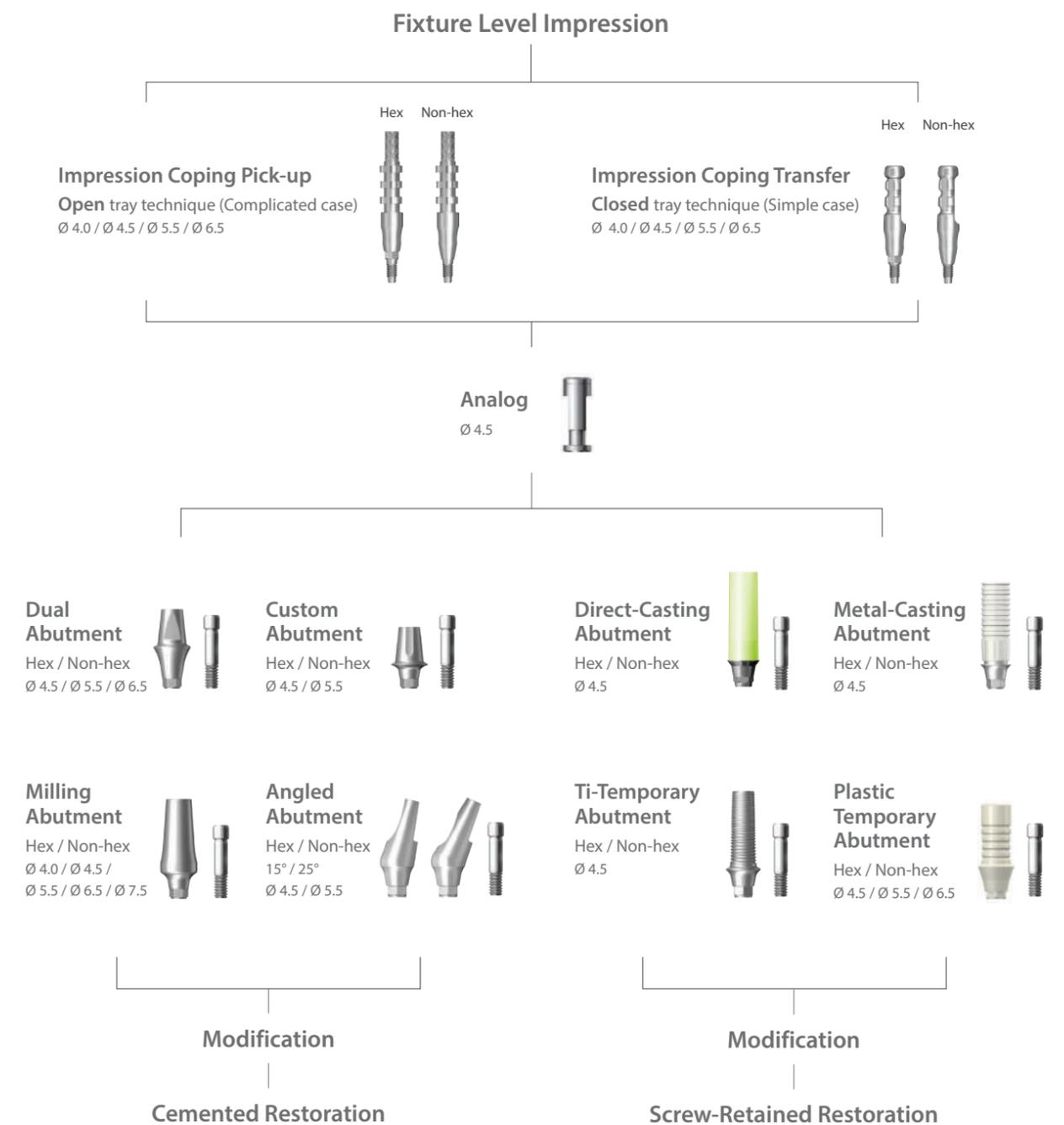


* If the combi analog is trimmed due to limited inter-occlusal space in the lab, make a reduction jig. Then a slight modify of the abutment in the oral cavity may be necessary to the height of the jig.

Prosthetic Procedure 2

Impression Technique and Restoration Selection

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



Fixture Level [Pick-up Type]_Dual Abutment

[Multiple Units]

Clinical Procedure

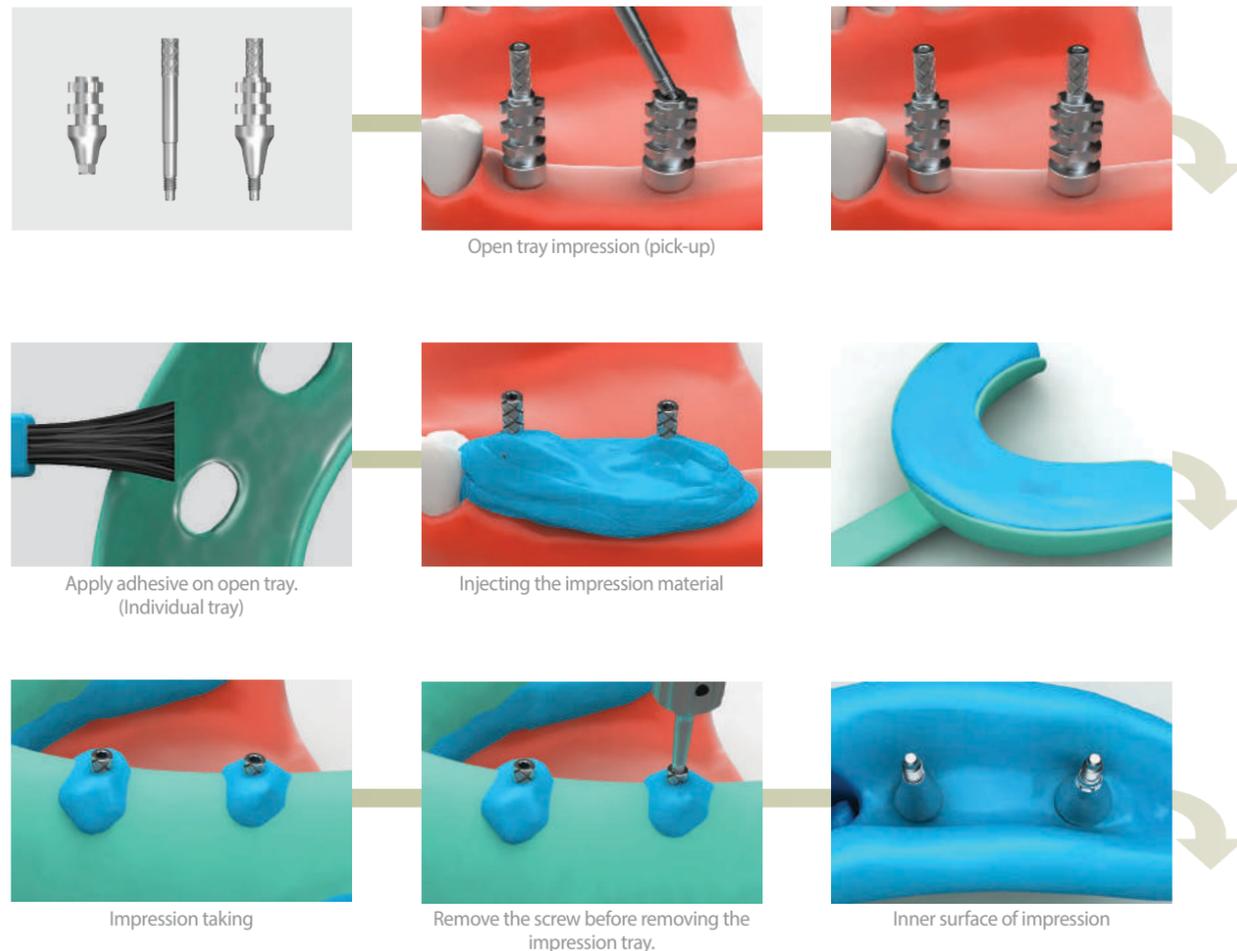


Healing Abutment

Impression Coping Pick-up Type

Fixture Level Impression Open Tray

LabSide



Open tray impression (pick-up)

Apply adhesive on open tray. (Individual tray)

Injecting the impression material

Impression taking

Remove the screw before removing the impression tray.

Inner surface of impression

Fixture Level [Pick-up Type]_Dual Abutment

[Multiple Units]

Clinical Procedure



Lab Analog Connection

Height Modification of Dual Abutment

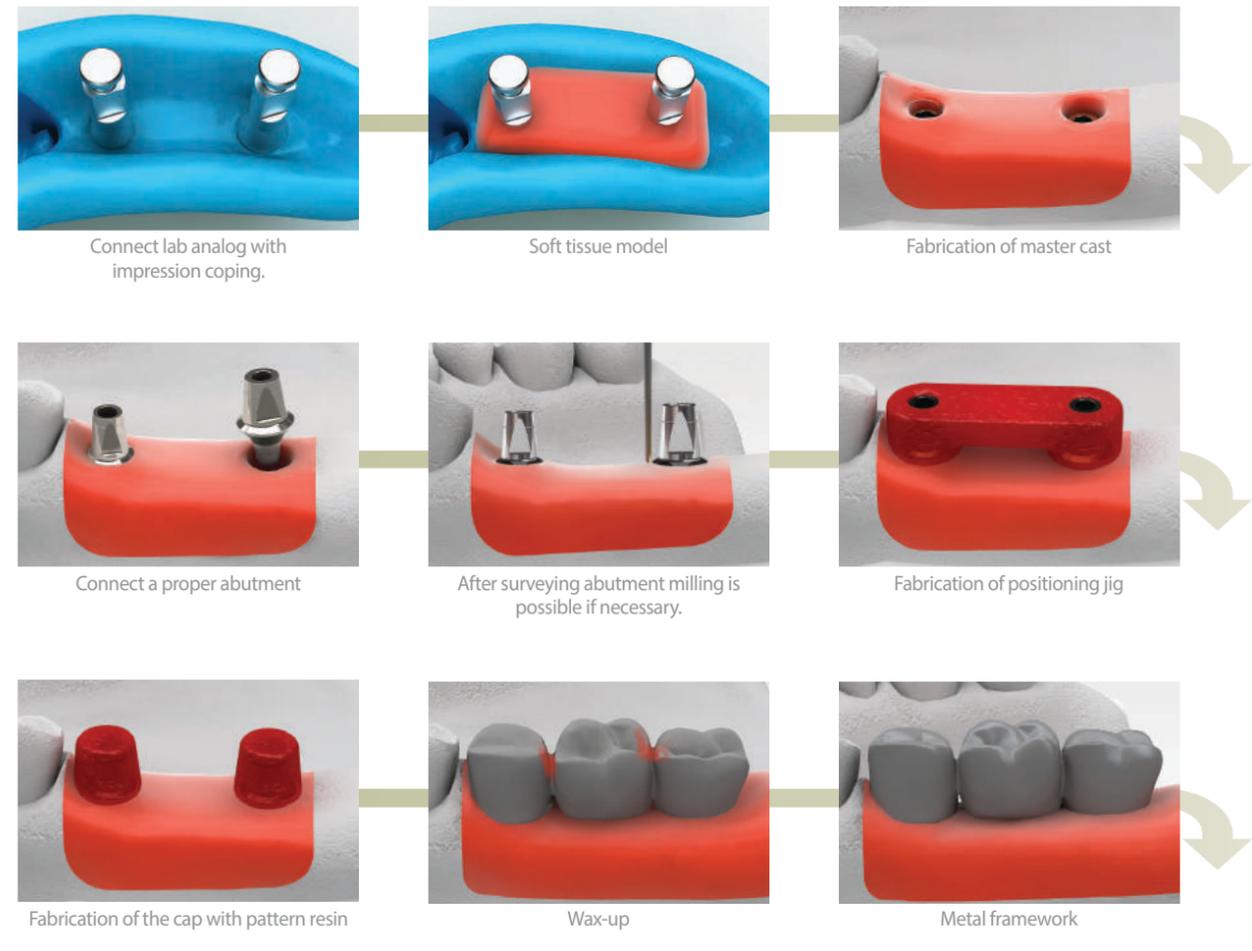
Burn-out Cylinder

Crown Wax-up

Final Restoration Cementation Type

Gold Crown
Porcelain Crown

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.

SCRP- Labside



Formation of access hole with long transfer coping screw



Wax-up



Metal framework

SCRP- Chairside



Final prosthesis



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



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



Second stage surgery (Uncovering)



Soft tissue formed around Healing Abutment



Transfer type impression coping



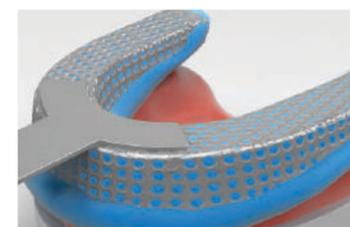
Seating the impression coping which has the same diameter as Healing Abutment



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



Injection of impression material



Impression taking

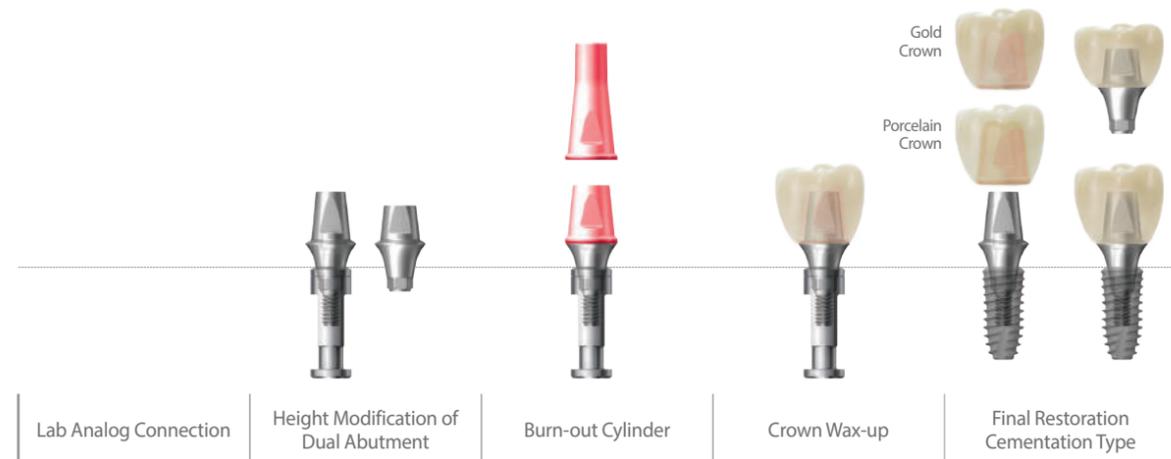


Inner surface of the impression

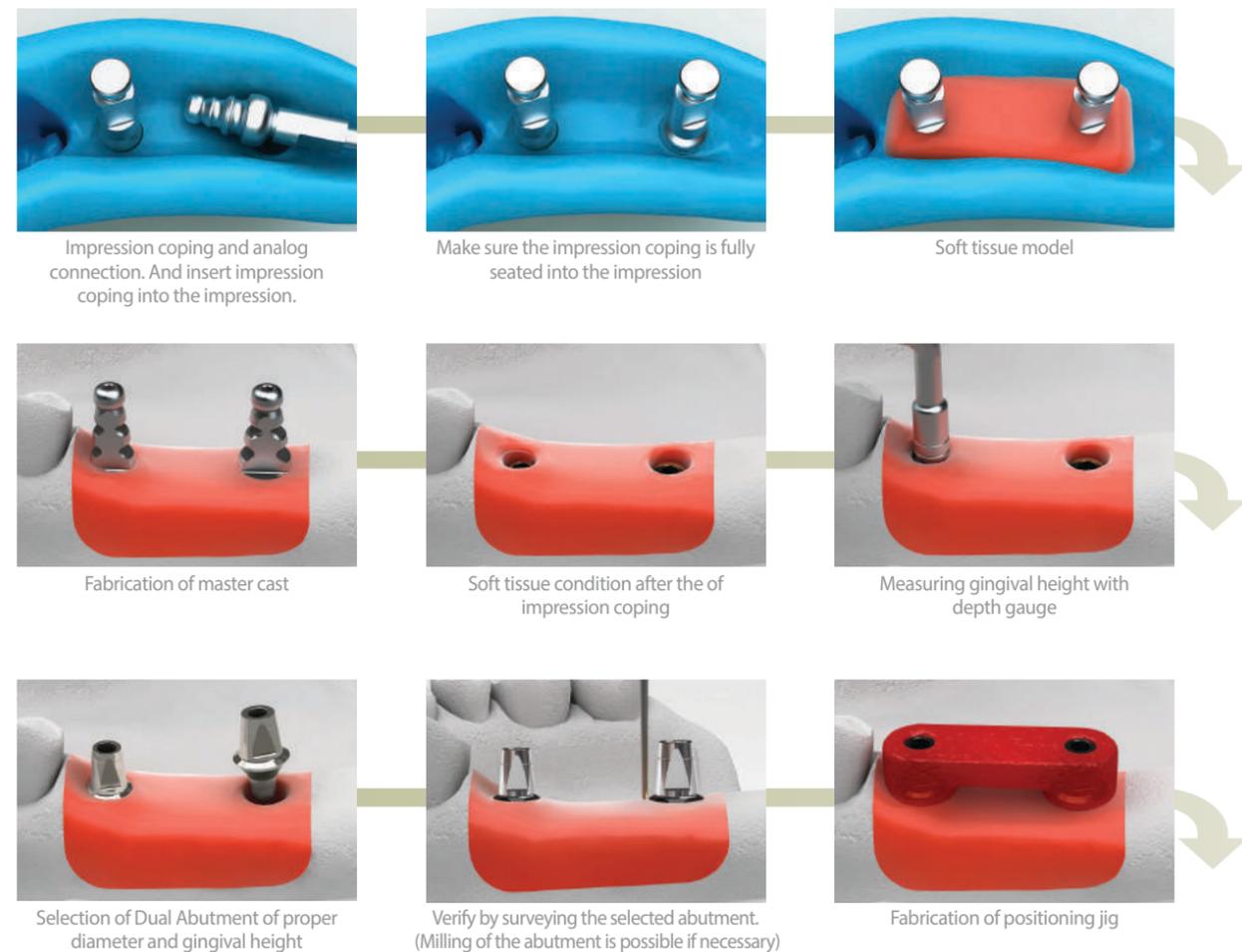
Fixture Level [Transfer Type]_Dual Abutment

[Multiple Units]

Clinical Procedure



LabSide



Fixture Level [Transfer Type]_Dual Abutment

[Multiple Units]



Chairside



SCR- Labside



SCR- Chairside



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

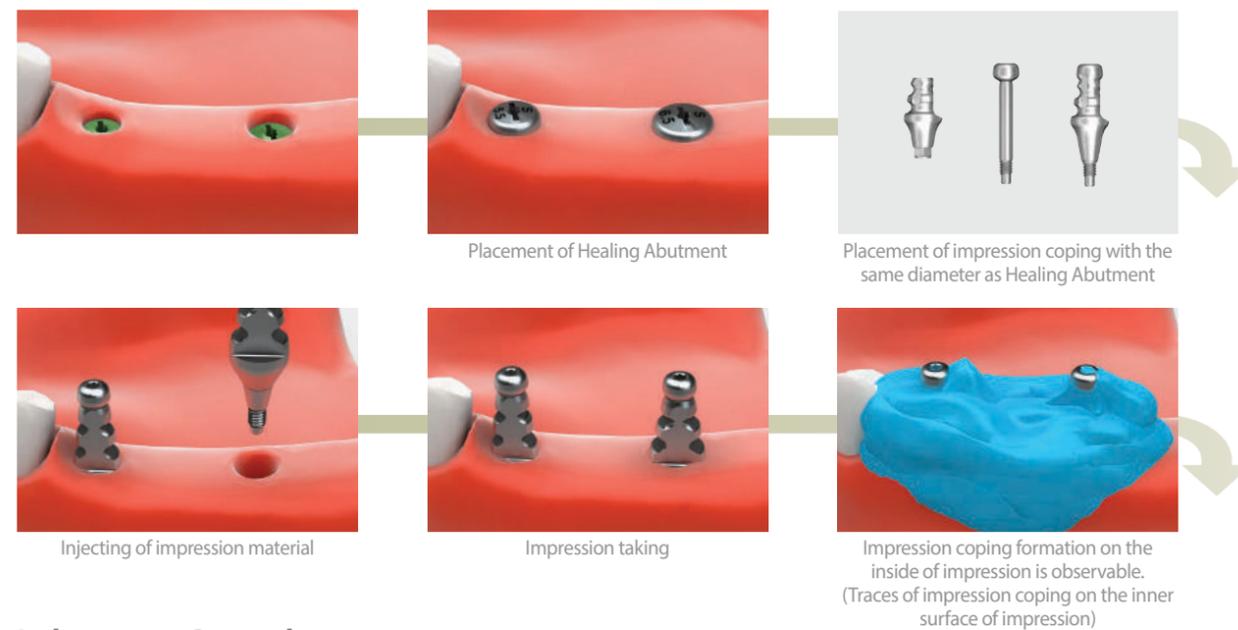
Fixture Level [Transfer Type]_Milling Abutment

[Single Unit]

Clinical Procedure



Chairside



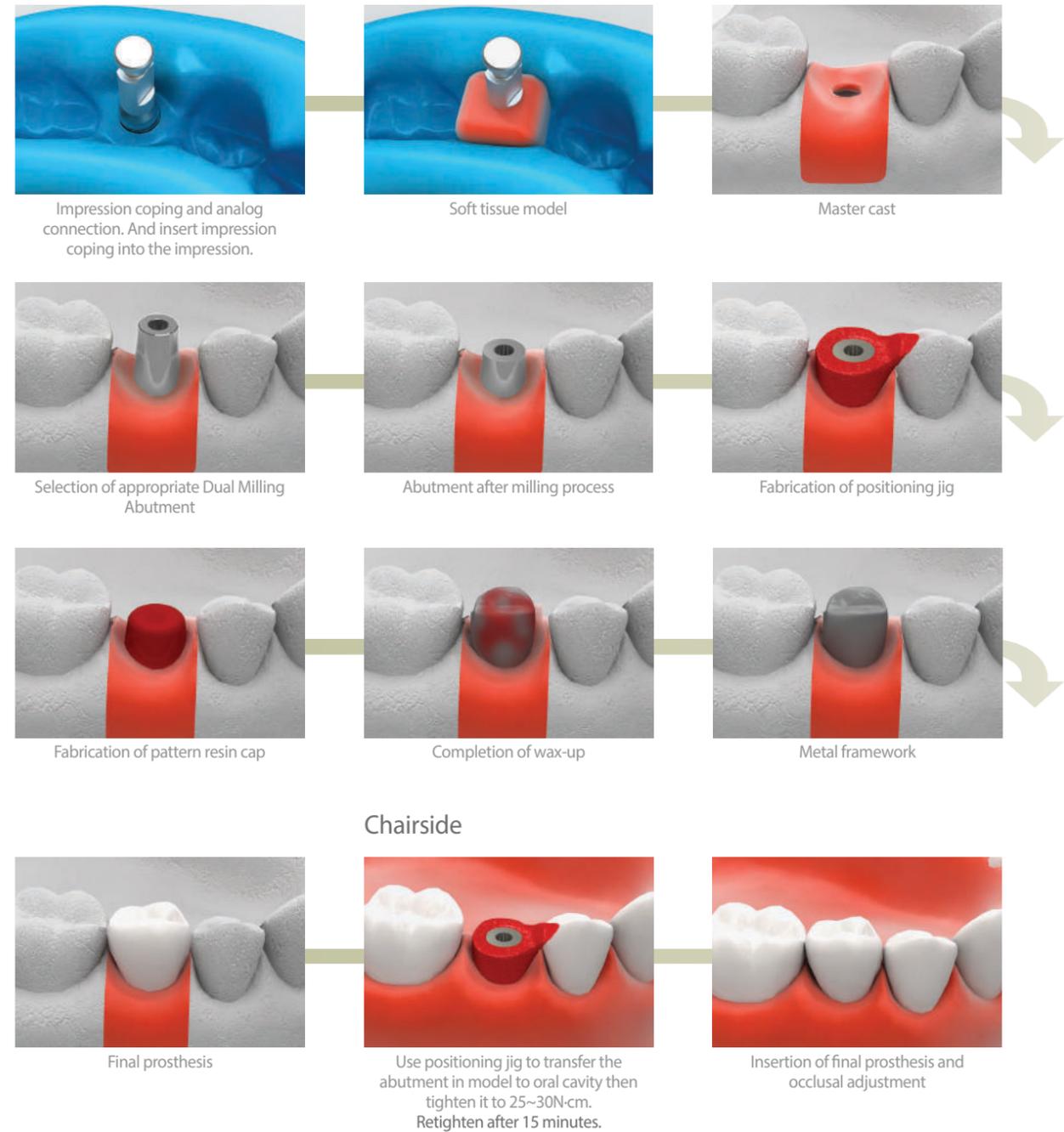
Laboratory Procedure



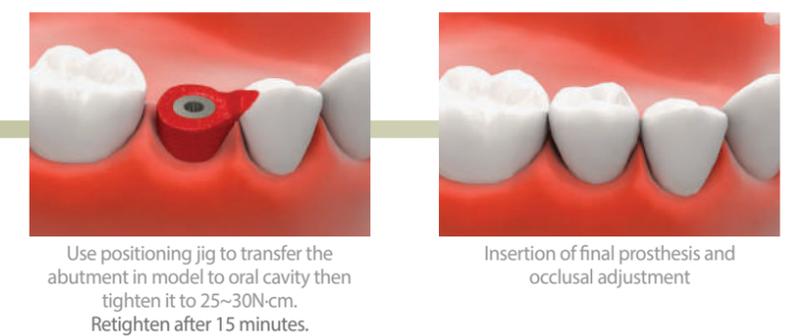
Fixture Level [Transfer Type]_Milling Abutment

[Single Unit]

Labside



Chairside



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

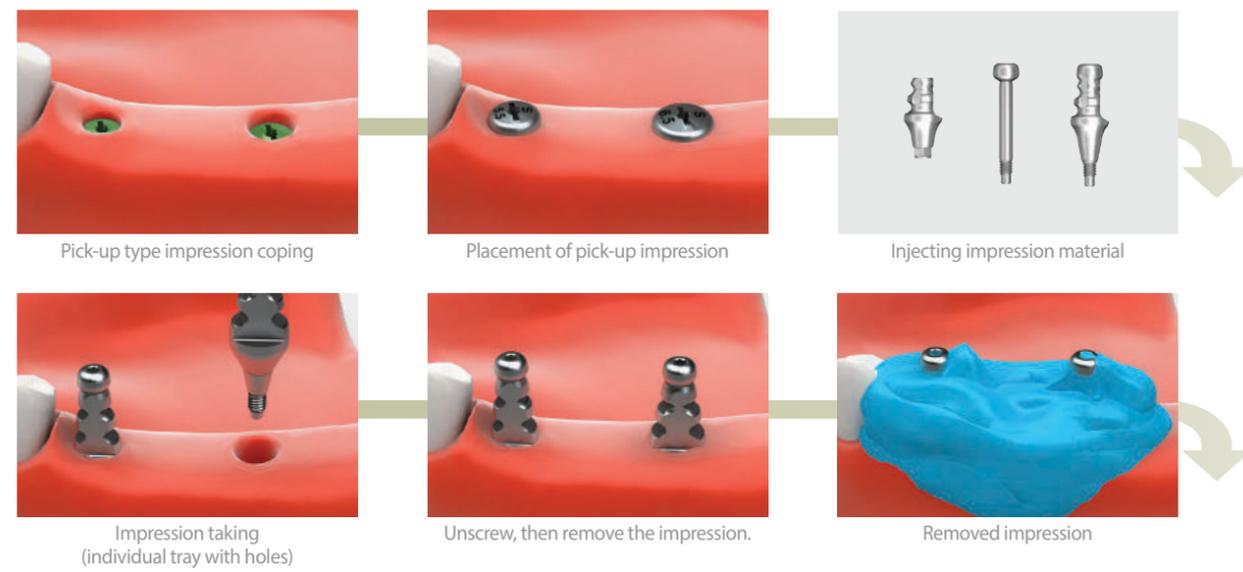
Fixture Level [Pick-up Type]_Angled Abutment

[Single Unit]

Clinical Procedure



Chairside



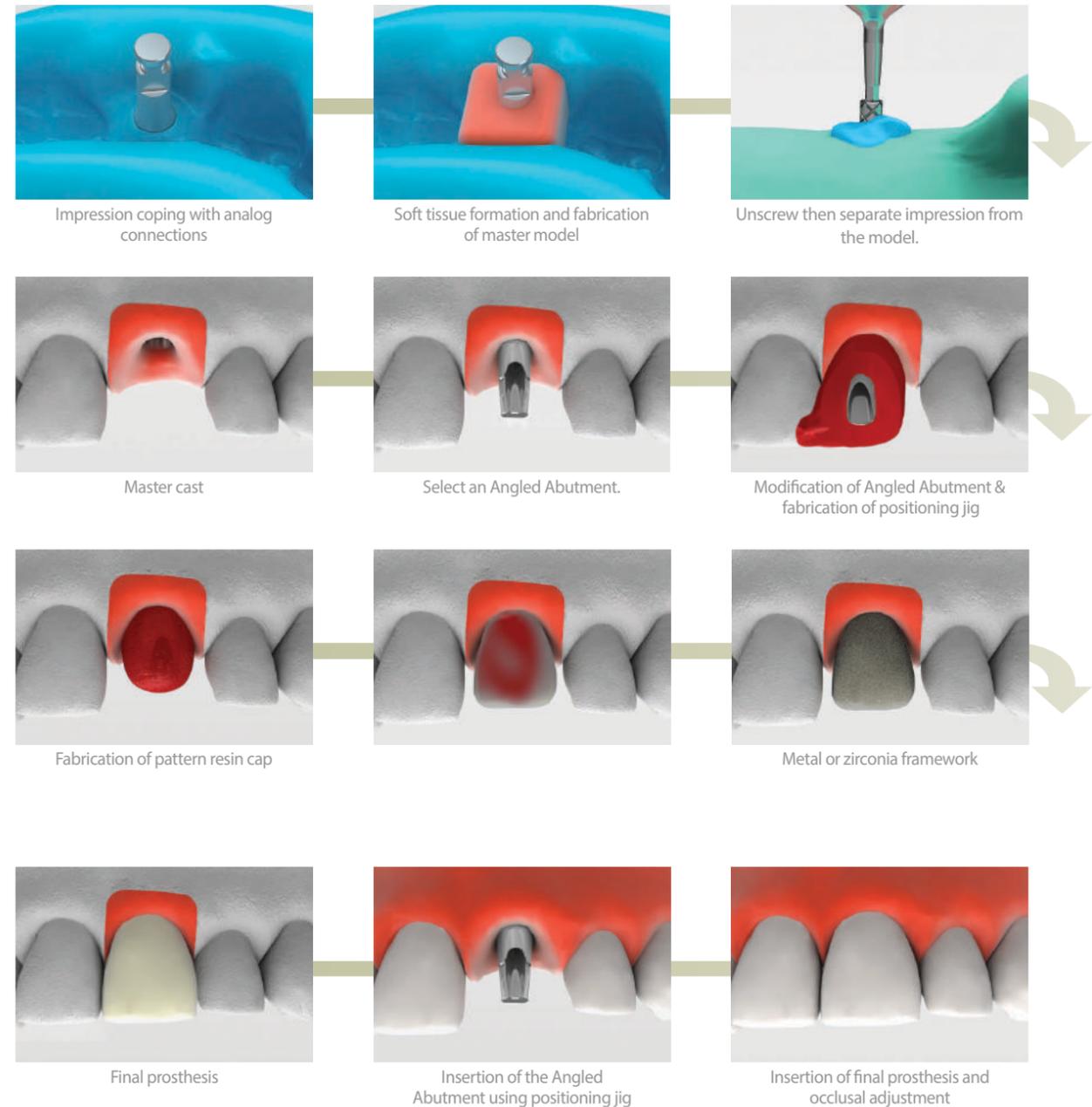
Laboratory Procedure



Fixture Level [Pick-up Type]_Angled Abutment

[Single Unit]

Labside



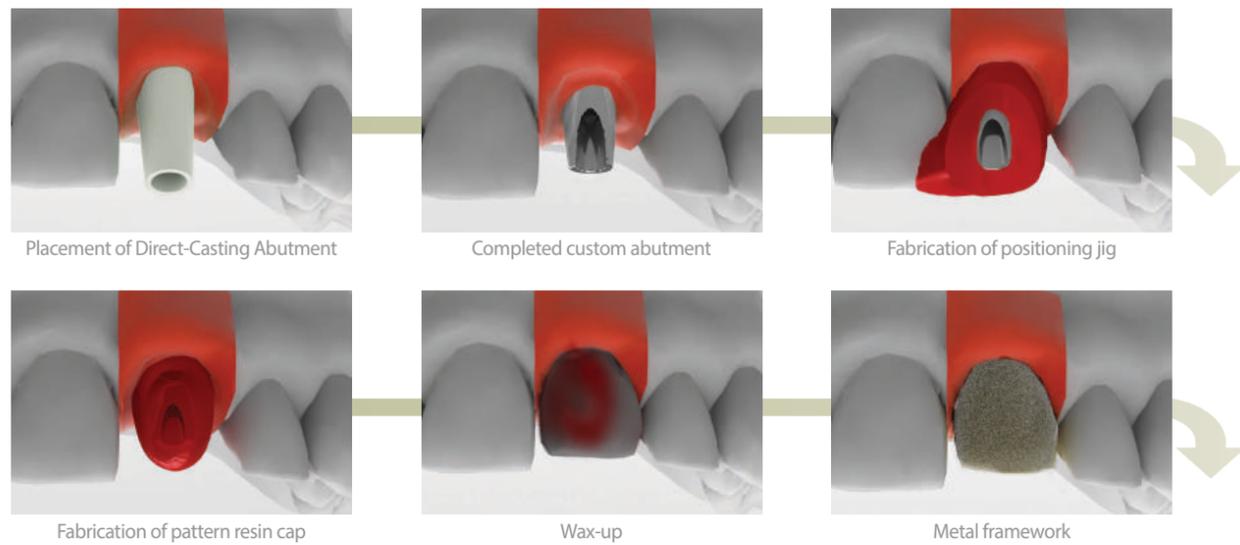
Fixture Level_Direct-Casting Abutment

[Single Unit]

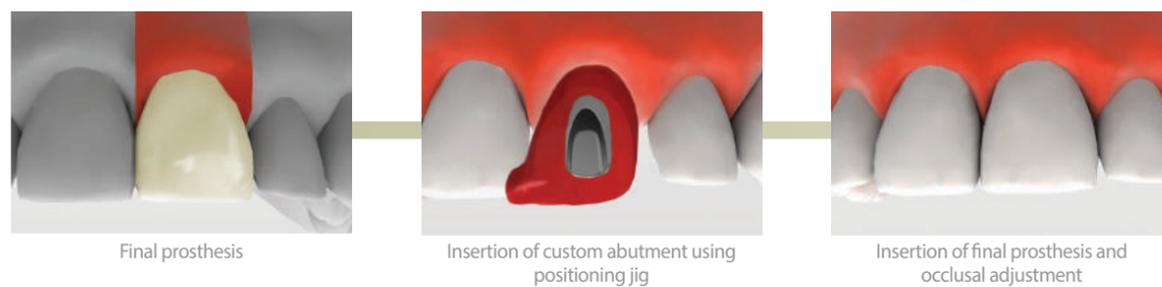
Laboratory Procedure



LabSide



Chairside



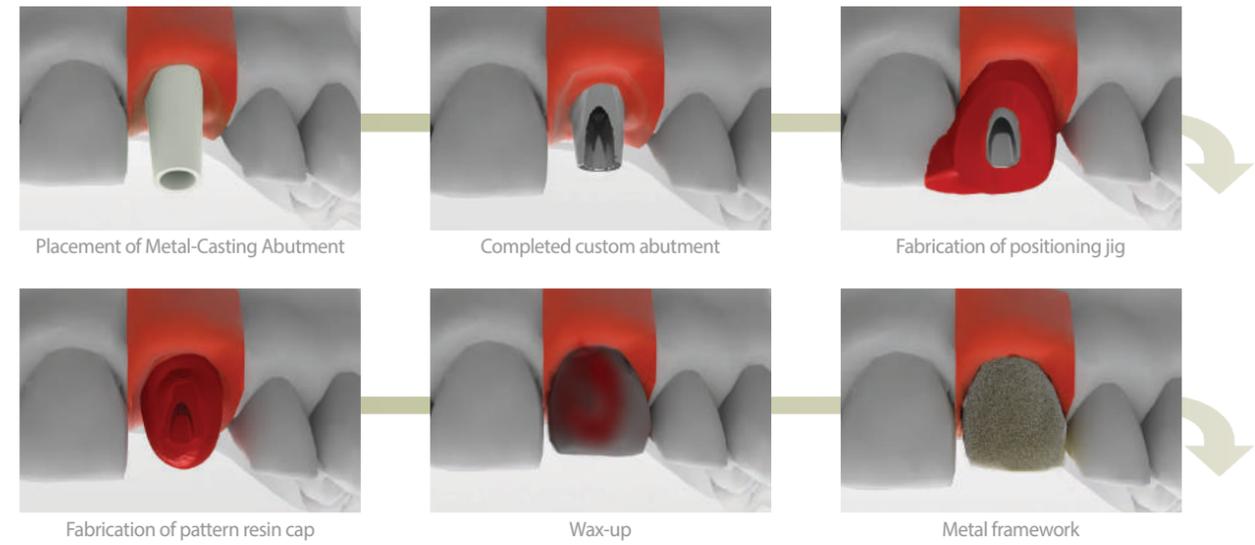
Fixture Level_Metal-Casting Abutment

[Single Unit]

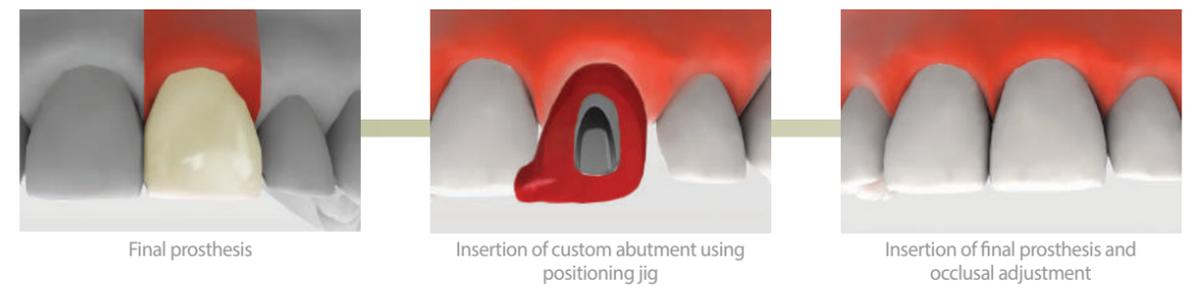
Laboratory Procedure



LabSide

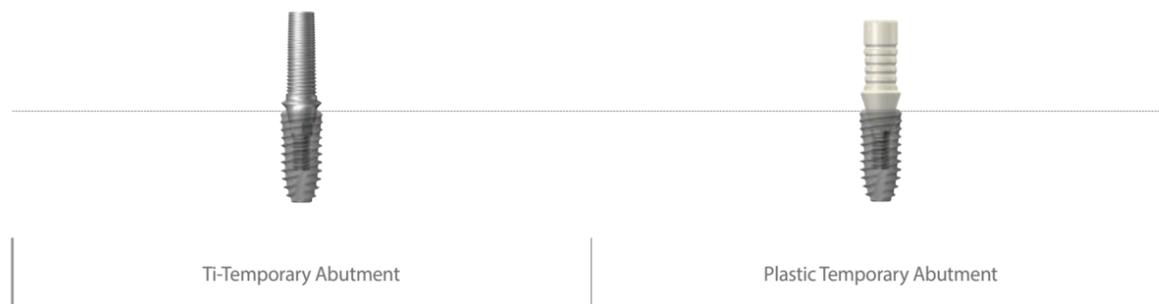


Chairside



Fixture Level [Pick-up Type] Temporary Abutment

[Single Unit]



<Using Ti Abutment>



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

<Using Plastic Abutment>

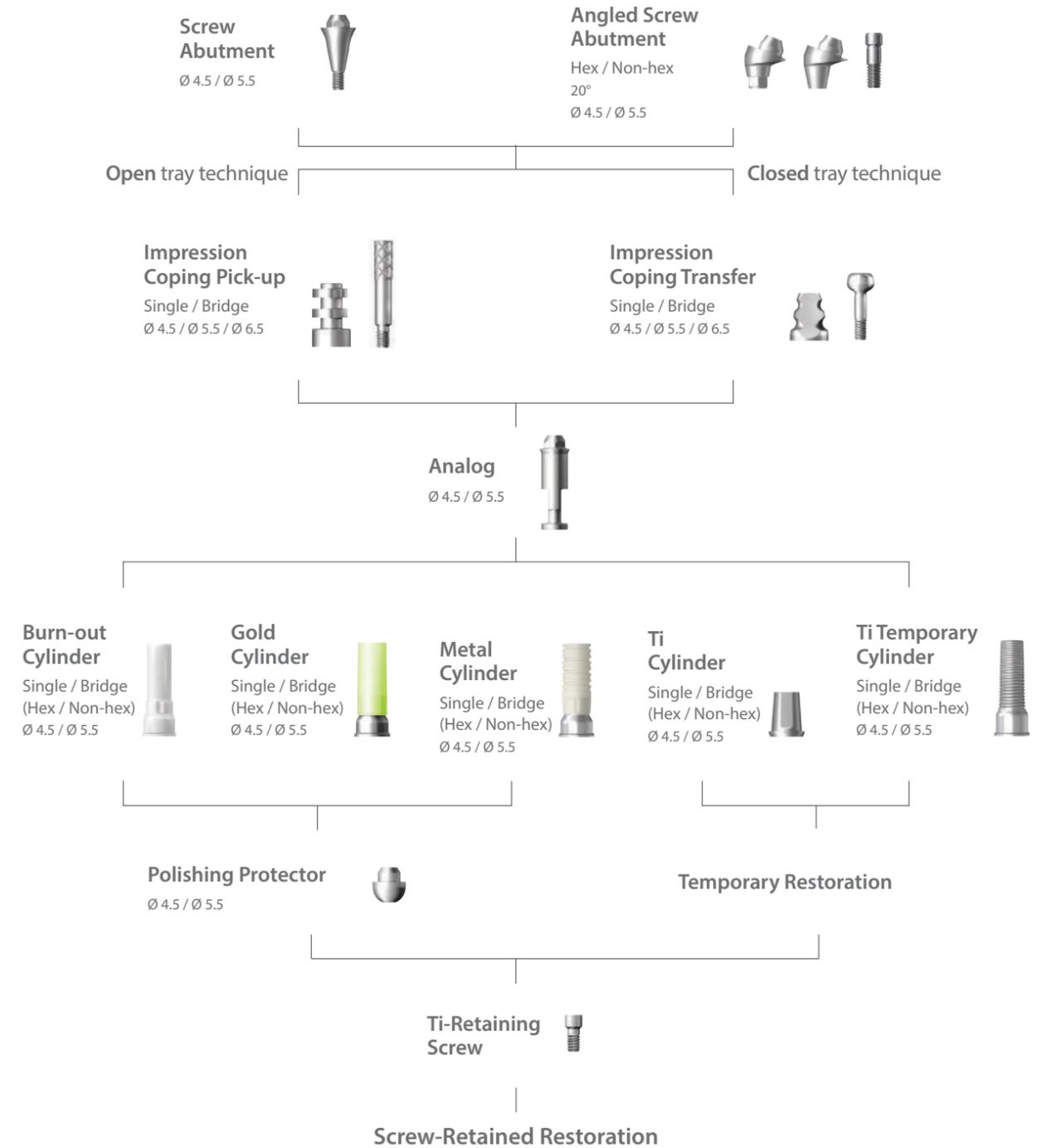


Prosthetic Procedure 3

Impression Technique and Restoration Selection

Screw Abutment

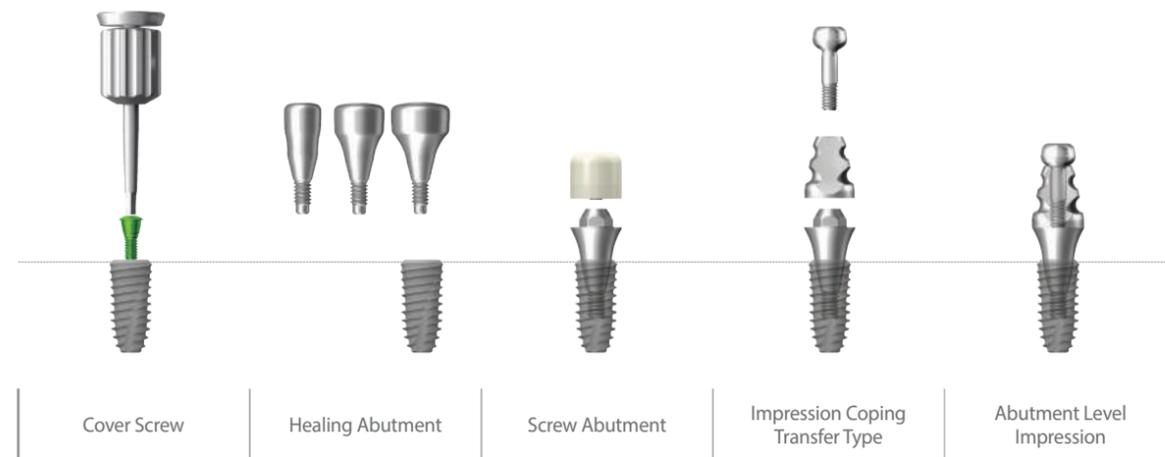
Abutment Level Impression



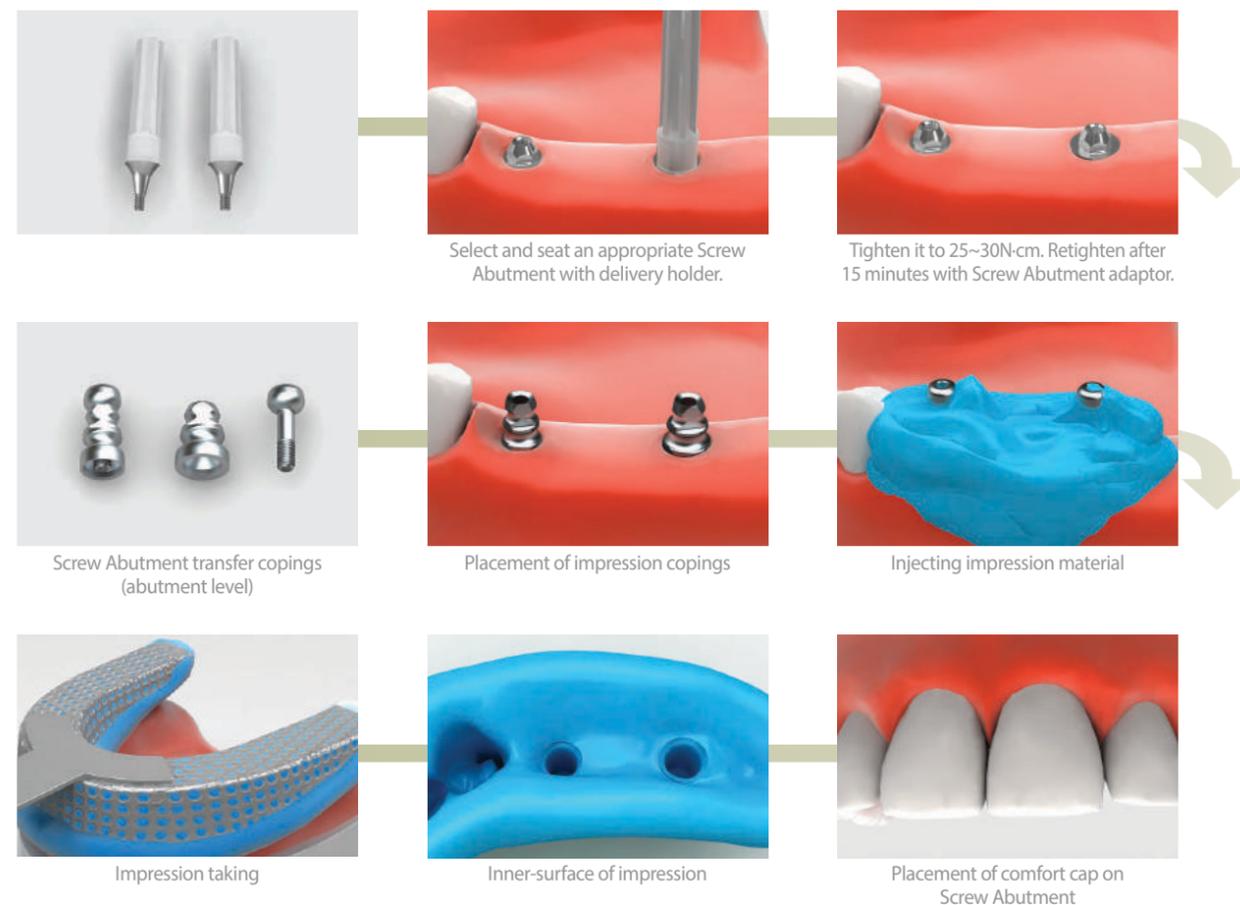
Abutment Level [Transfer Type]_Screw Abutment

[Multiple Units]

Clinical Procedure



LabSide



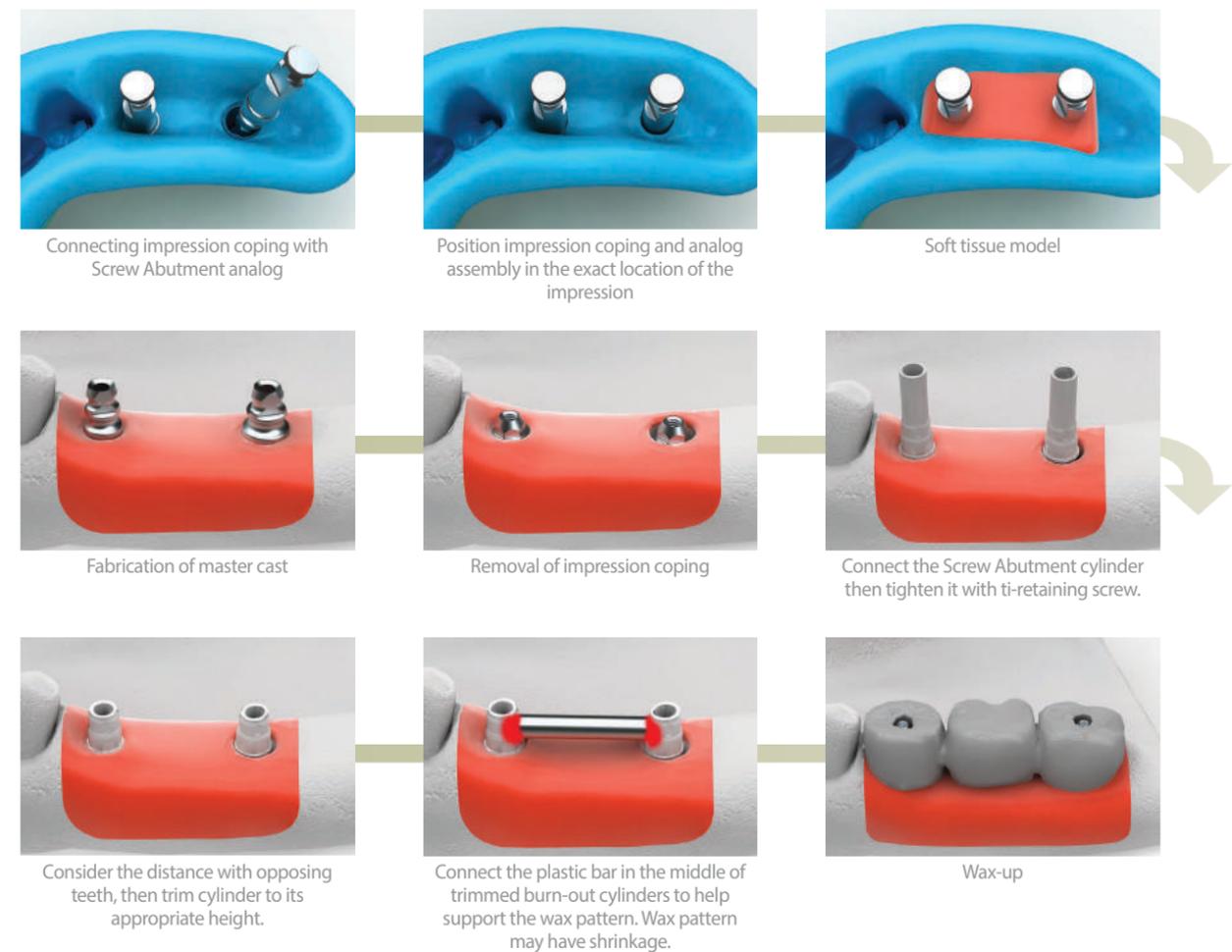
Abutment Level [Transfer Type]_Screw Abutment

[Multiple Units]

Laboratory Procedure

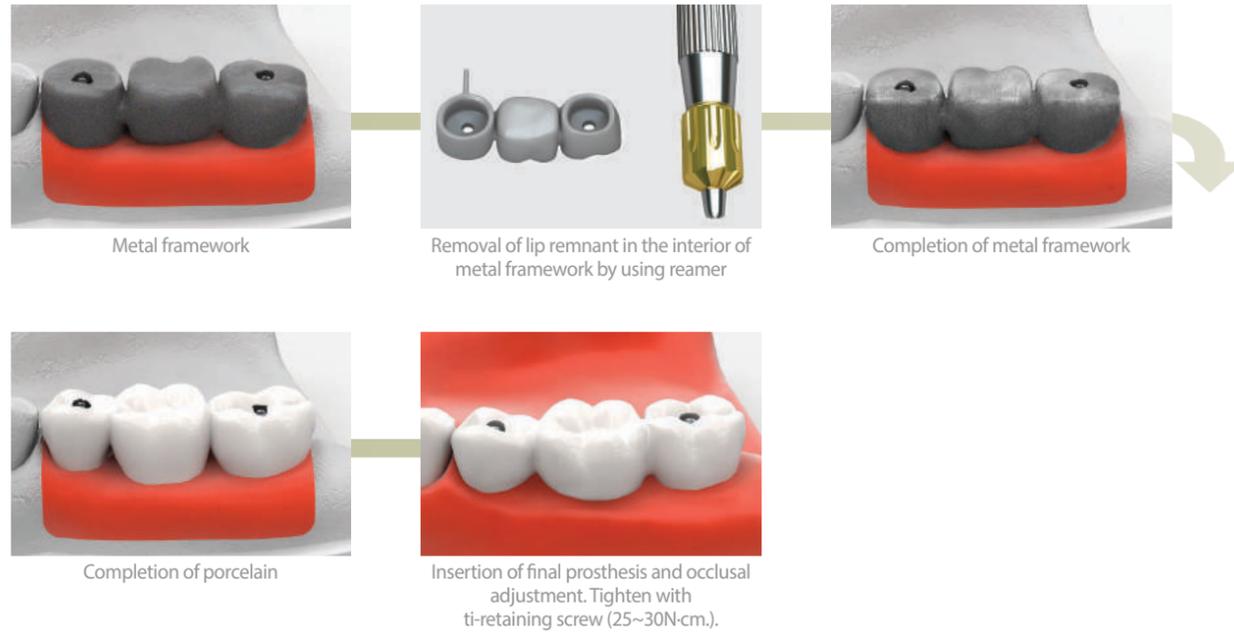


LabSide



Abutment Level [Transfer Type]_Screw Abutment

[Multiple Units]



Cementation Repair Method (SCRP)

[Screw & Cement Retained Prosthesis]

In Light of Implant Prosthesis:

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

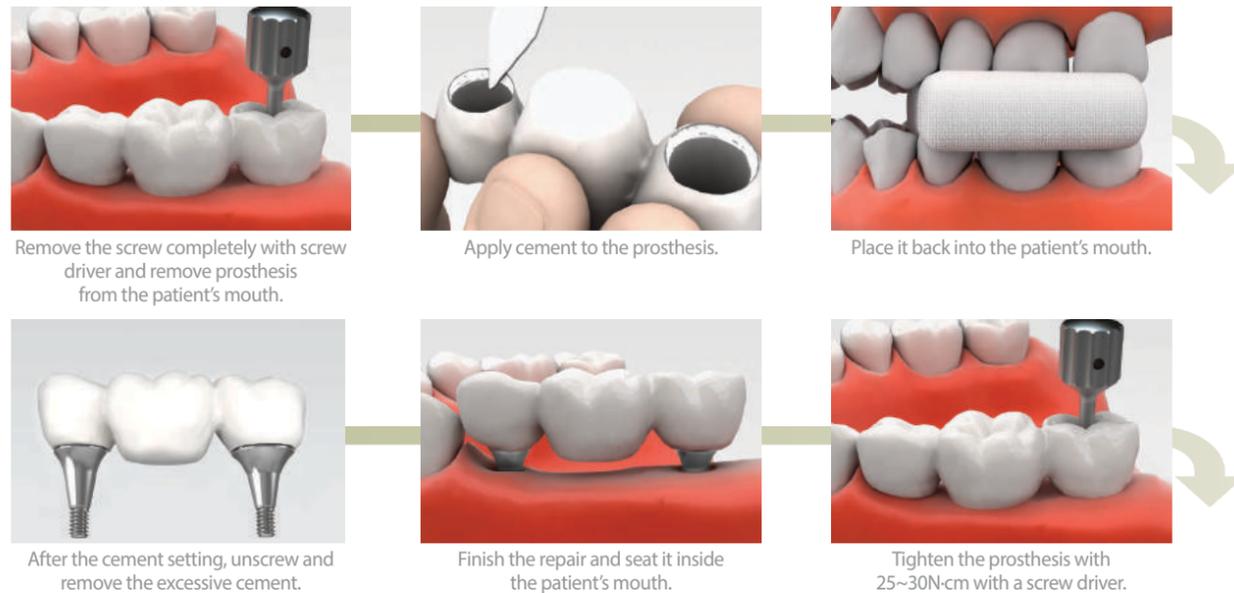
In Case of Screw Loosening or when Prosthesis Repair is Needed



Cementation Repair Method (SCRIP)

[Screw & Cement Retained Prosthesis]

Prosthesis Separation from Abutment due to Cement Loss



Adding to the Interproximal Contact Surface due to Prosthesis Loosening



Prosthetic Procedure 4

Impression Technique and Restoration Type

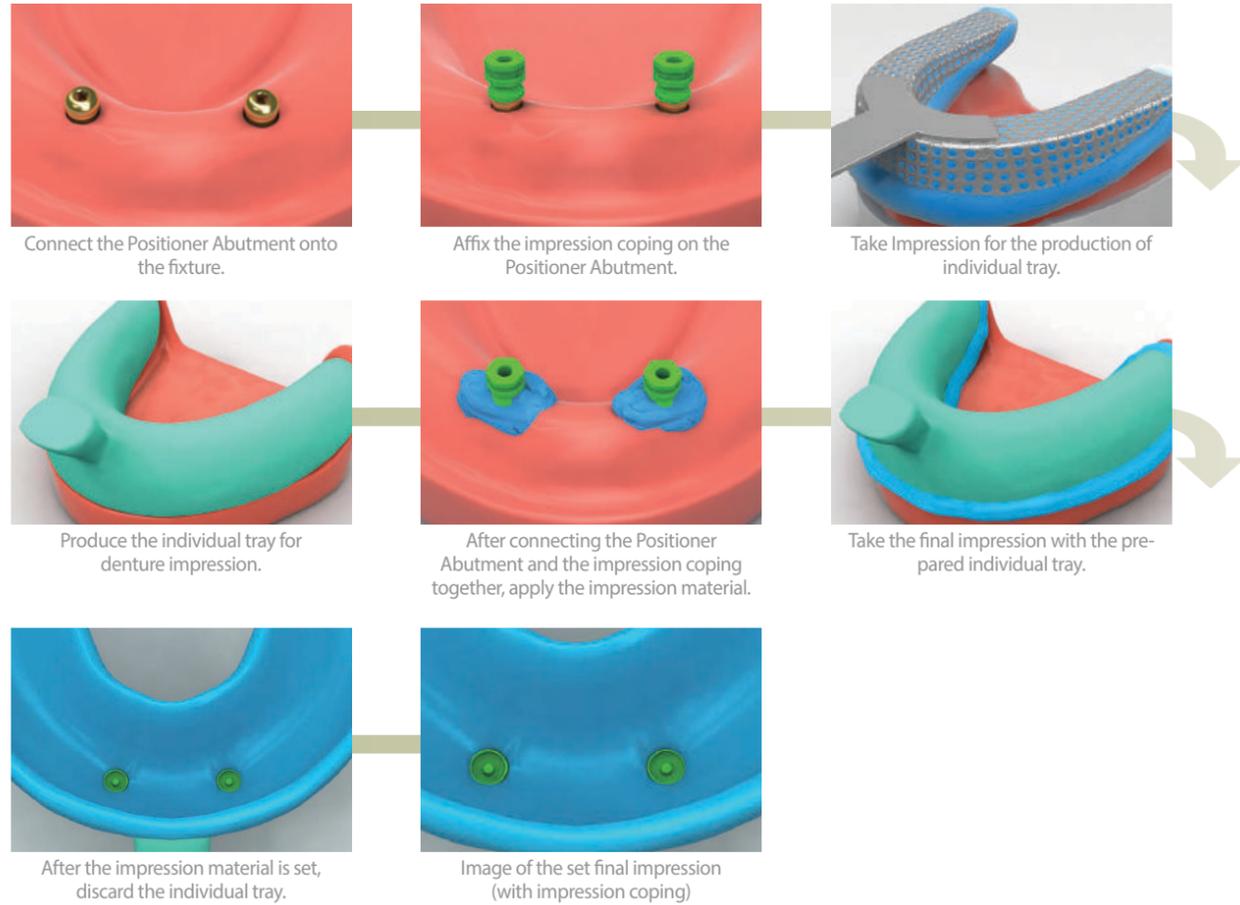
Overdenture Procedure

Positioner / Mini Ball / Magnetic Attachment

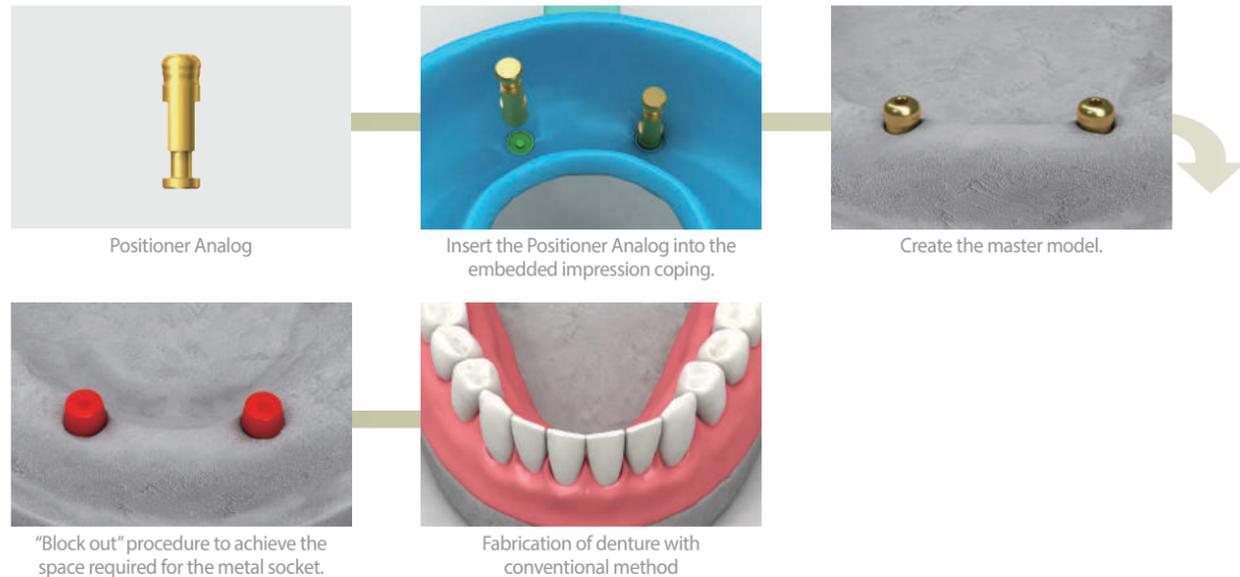
| | | |
|--|--|---|
| <p>Positioner Abutment Ø 3.5</p>  | <p>Mini Ball Abutment Ø 3.5</p>  | <p>Magnetic Implant Keeper Dome type / Flat type Ø 4.5 / Ø 5.5</p>  |
| Abutment Level Impression | | |
| <p>Positioner Impression Coping Ø 4.5</p>  | <p>Mini Ball Impression Coping Ø 3.5</p>  | |
| <p>Positioner Analog Ø 3.5</p>  | <p>Mini Ball Analog Ø 3.5</p>  | |
| <p>Block Out Spacer Ø 6.5</p>  | <p>Socket Spacer Ø 4.05 / Ø 4.85</p>  | |
| <p>Positioner Socket Metal / Plastic</p>  | <p>Mini Ball Female Socket / O-ring Ø 4.05 / Ø 4.85</p>  | <p>Magnetic Assay Dome type / Flat type Ø 4.5 / Ø 5.5</p>  |
| Positioner Attachment for Overdenture | Mini Ball and Socket Attachment for Overdenture | Magnetic Attachment for Overdenture |

Positioner

Chairside



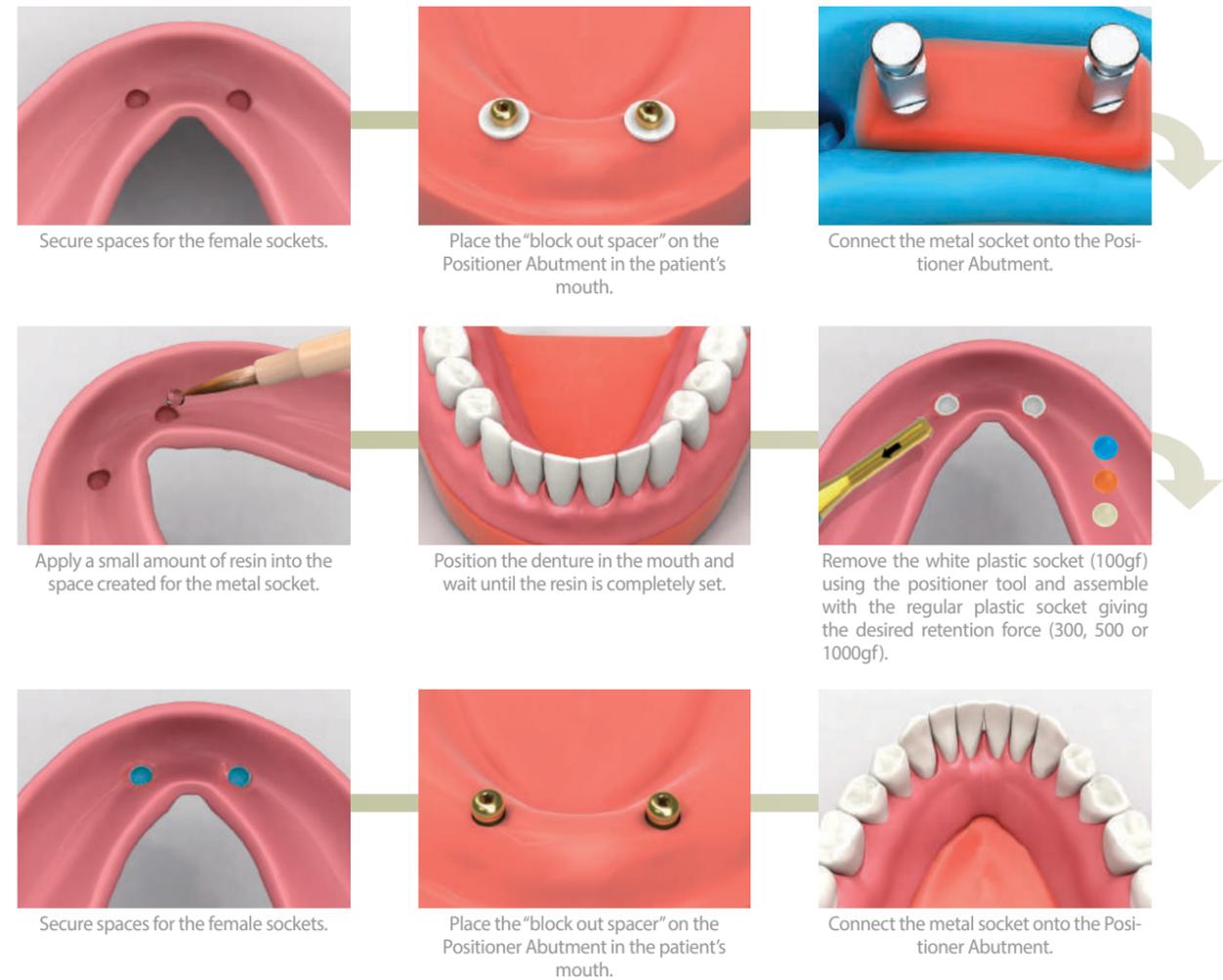
Labside



Positioner

Case 1

Chairside



Positioner

Case 1

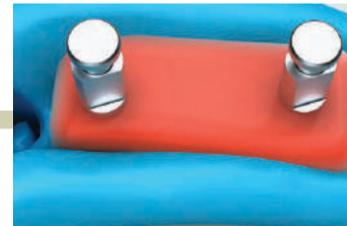
Chairside



Create holes for the placement of the metal sockets.



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



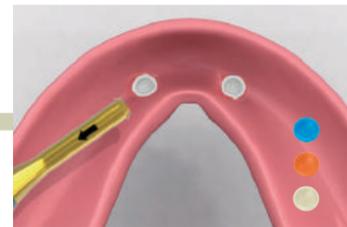
Connect the metal socket onto the Positioner Abutment.



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



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



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



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



Apply resin around the metal socket.



After polishing, the overdenture is completed.

Mini Ball Attachment

Case 1

Chairside



Secure spaces for the female sockets.



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



Apply small amount of the resin into the secured area.



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



Female sockets are placed in the denture.



After polishing, the overdenture is completed.

Case 2

Chairside



Create holes for placement of female sockets.



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



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



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



Female sockets are placed in the denture.



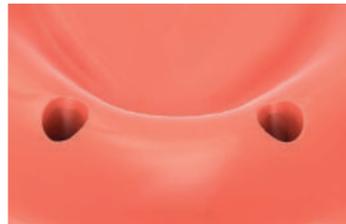
Apply resin around the female sockets.



After polishing, the overdenture is completed.

Magnetic Attachment

Chairside



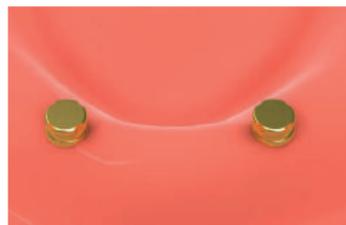
After Healing Abutment removal



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.



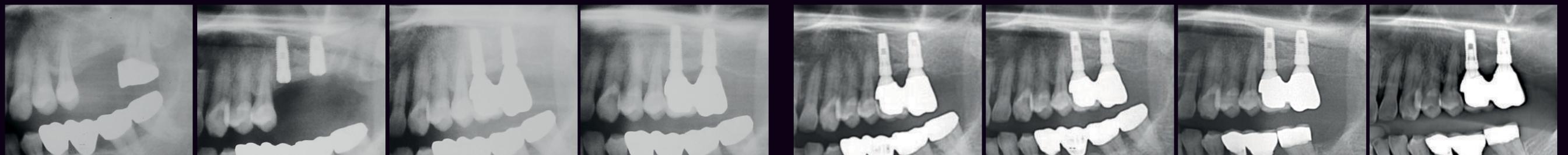
After polishing, the overdenture is completed.

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For Dentists By Dentists

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OVER A **DECADE** OF
COMMITMENT TO
THE **BEST PRODUCTS**
FOR DENTISTS AND
PATIENTS



06. 20. 2002
Pre-op

07. 02. 2002
Post-op

11. 29. 2002
Final Prosthesis

06. 02. 2004
1 Years 2 months

11. 15. 2007
5 Years

07. 24. 2009
6 Years 8 months

05. 23. 2012
9 Years 6 months

11. 25. 2017
15 Years