

DIO^o IMPLANT SYSTEM

Introduction Vision, Product Distinctions, DIO Fixture Diagram

Implant System SM System, Internal System, External System, ProTem/Secure System, Surgical Kits

Dental Products Implant Surgical Devices, Handpiece, Sterilizer, Dental Materials, Toothpaste

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Vision



"DIO IMPLANTS, leading the way to tomorrow's future."

In 1983, DIO established itself through customer centric thinking and cutting edge development to create a dynamic product offering that include: dental implants, dental equipment, dental practices, toothpaste, and surgical stent businesses.

DIO has continued to grow and develop these products and businesses interests to establish their presence in the domestic market and beyond to over 60 countries; DIO is listed on the Korean Stock Exchange and is poised to become a world leader in its field

DIO's product development focuses on the customer needs and satisfaction. DIO's development philosophy is based upon the principle of customer centric thinking: our customers are our business partners. Through this partnership we will become a global leader by utilizing the best in cutting edge technology and best in human resources, DIO will always be in "THE BUSINESS OF HUMAN HEALTH AND HAPPINESS."



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SM-Submerged / Extra Wide

| | |
|-------------------------------------|-----|
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| (Submerged, Extra Wide) | |
| BioTite-H, Extra Wide-H | 018 |
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External System

SM-External / FSN / FTN

| | |
|--------------------------------------|-----|
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Internal System

SM-Internal / IFI / PSI

| | |
|--------------------------------------|-----|
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ProTem/Secure System

Post / Ball Type

| | |
|---|-----|
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Surgical Kits

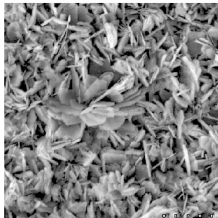
| | |
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| | |
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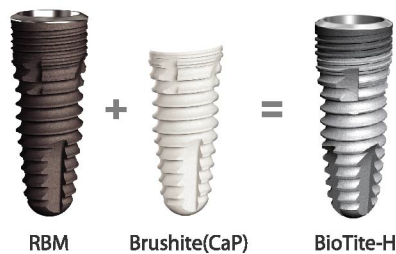
Product Distinctions

1 Brushite (CaP) Coating



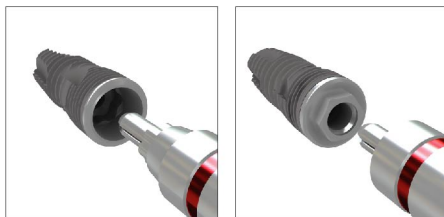
Created from a calcium and phosphate solution, the external surface of the implant is treated via electrochemical process which allows the Brushite Coating provides an ultrathin $15 \pm 5\mu\text{m}$ surface that is also highly bio-compatible.

Brushite's increased calcium concentration promotes the speed of formation of new tissue. Brushite's organic environment supports melting and fine absorption. 6-12 weeks after implant placement, the coating remains intact and secure. Brushite's regenerative environment is conducive to fine absorption.



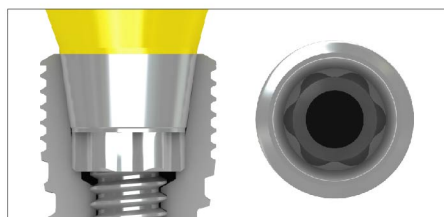
- Early and/ or Immediately loading
- Higher success rate regardless of bone type
- Sinus elevation
- Low bone density whereby predicted micromotion
- Higher rate of bone implant contact(Brushite 73%, RBM 50%)

2 No-mount system



- The No-Mount System alleviates the pain and hassle of mount disassembly during surgery.
- The direct path connection increases accuracy by enacting an exact fit, resulting in an overall reduction in surgical time.

3 Torx Connection(Internal)

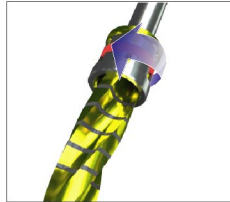


Traditional internal structures capacity has a tendency for torque loss due to fatigue. Our Torx Connection consistently provides resistance fatigue against higher torque provided by its design and structure.

| Company | DIO | "A" | "B" | "C" | "D" | "E" | "F" |
|----------------------|--------------|------|-------|------|------|------|------|
| Maximum Torque (Ncm) | 112,8 (Torx) | 91,7 | 107,9 | 49,1 | 75,5 | 58,9 | 68,7 |

Product Distinctions

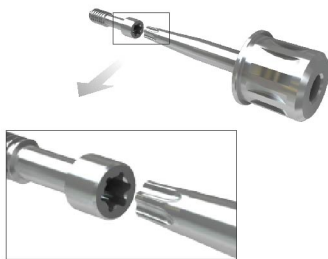
4 Rotation Stopper



■ Narrow
 ■ Regular
 ■ Wide

Rotation stopper provides smooth and simple mounting operation. Rotation stopper increases control during surgery and reduces instrument related bone damage.

5 Torx Abutment Screw

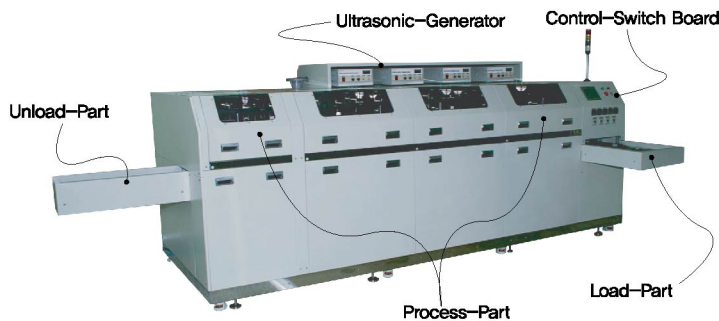


Traditional Hex configuration abutment screws have an average tolerance of 35 Ncm. Additional torque can subject to screw to distortion. DIO Torx Abutment screws have much high maximum tolerances and still remain undistorted after unscrewing.

Torx & Hex Abutment Screw maximum tolerances

| DIO Torx Abutment Screw | | Hex Screw |
|-------------------------|---|---|
| Narrow Dia. 1,3 | Max. 60–65 Ncm Screw fracture occurs Screw removal possible | Max. 43–46 Ncm Hex wears and tears Screw removal difficult. |
| Regular Dia. 1,5 | 80–85 Ncm Screw fracture occurs Screw removal possible | |

6 Cleansing System



Ultrasonic Vacuum Cleanser, the vacuum drier function coupled with the ultrasonic cleaning function provides residue free surfaces from your products as well as superior safety.

Defective implant cleansers in the operating area can result in contamination and infection. DIO Implant is dedicated to maintaining the quality of its ultrasonic cleanser.

Analysis of foreign substances on fixture by company.

| Company | Package Contents | Foreign Contents |
|---------|------------------|--|
| DIO | 3EA | C, O, Ti |
| "A" | 3EA | C, O, S, Ca, Ti |
| "B" | 3EA | C, O, S, Si, Fe, Mg, Cl, Ca, Zn, P, Ca, Al, Ti |
| "C" | 3EA | C, O, S, Si, Ca, Zn, Na, K, Mo, Al, Ti |

DIO Fixture Diagram

(Unit : mm)

| SM System | | Internal System | | |
|-----------------------------|-----------------------|-----------------|-----------------------------|-----|
| SM-Submerged | SM-Extra-Wide | SM-Internal | IFI | PSI |
| <p>L : 8 / 10 / 12 / 14</p> | <p>L : 6 / 8 / 10</p> | | <p>L : 8 / 10 / 12 / 14</p> | |
| <p>L : 8 / 10 / 12 / 14</p> | <p>L : 6 / 8 / 10</p> | | <p>L : 8 / 10 / 12 / 14</p> | |
| <p>L : 8 / 10 / 12 / 14</p> | <p>L : 6 / 8 / 10</p> | | <p>L : 8 / 10 / 12 / 14</p> | |
| | | | <p>L : 8 / 10 / 12 / 14</p> | |

DIO Fixture Diagram

(Unit : mm)

| External System | | | ProTem/Secure System | |
|--|---|---|----------------------------|----------------------------|
| SM-External | FTN | FSN | Post | Ball |
| <p>Hex 2.4 0.5 Ø3.5 Ø3.8 L Ø2.4 Ø3.3</p> | <p>Hex 2.4 0.75 Ø3.5 L-0.4 Ø2.25 Ø3.3</p> | <p>Hex 2.4 0.75 Ø3.5 L-0.4 Ø2.8 Ø3.3</p> | <p>Ø2.0 Ø0.9 L</p> | <p>Ø2.0 Ø0.9 L</p> |
| L : 8 / 10 / 12 / 14 | L : 7 / 8.5 / 10 / 11.5 / 13 / 15 | | L : 10 / 12 / 14 | |
| <p>Hex 2.7 0.5 Ø4.1 Ø4.5 L Ø3.1 Ø4.0</p> | <p>Hex 2.7 0.75 Ø4.1 L-0.4 Ø3.0 Ø4.0</p> | <p>Hex 2.7 0.75 Ø4.1 L-0.4 Ø3.25 Ø4.0</p> | <p>Ø2.5 Ø1.5 L</p> | <p>Ø2.5 Ø1.5 L</p> |
| L : 8 / 10 / 12 / 14 | L : 7 / 8.5 / 10 / 11.5 / 13 / 15 | | L : 10 / 12 / 14 | |
| <p>Hex 3.4 0.5 Ø5.1 Ø5.3 L Ø4.0 Ø4.8</p> | <p>Hex 3.4 0.75 Ø5.1 L-0.4 Ø4.0 Ø5.0</p> | <p>Hex 3.4 0.75 Ø5.1 L-0.4 Ø3.85 Ø5.0</p> | <p>Ø3.0 Ø1.5 L</p> | <p>Ø3.0 Ø1.5 L</p> |
| L : 8 / 10 / 12 / 14 | L : 7 / 8.5 / 10 / 11.5 / 13 / 15 | | L : 10 / 12 / 14 / 16 | |
| | <p>Hex 2.7 0.75 Ø5.0 L-0.4 Ø4.8 Ø5.0</p> | <p>Hex 2.7 0.75 Ø5.0 L-0.4 Ø3.85 Ø5.0</p> | | |
| | L : 8.5 / 10 / 11.5 / 13 / 15 | | | |



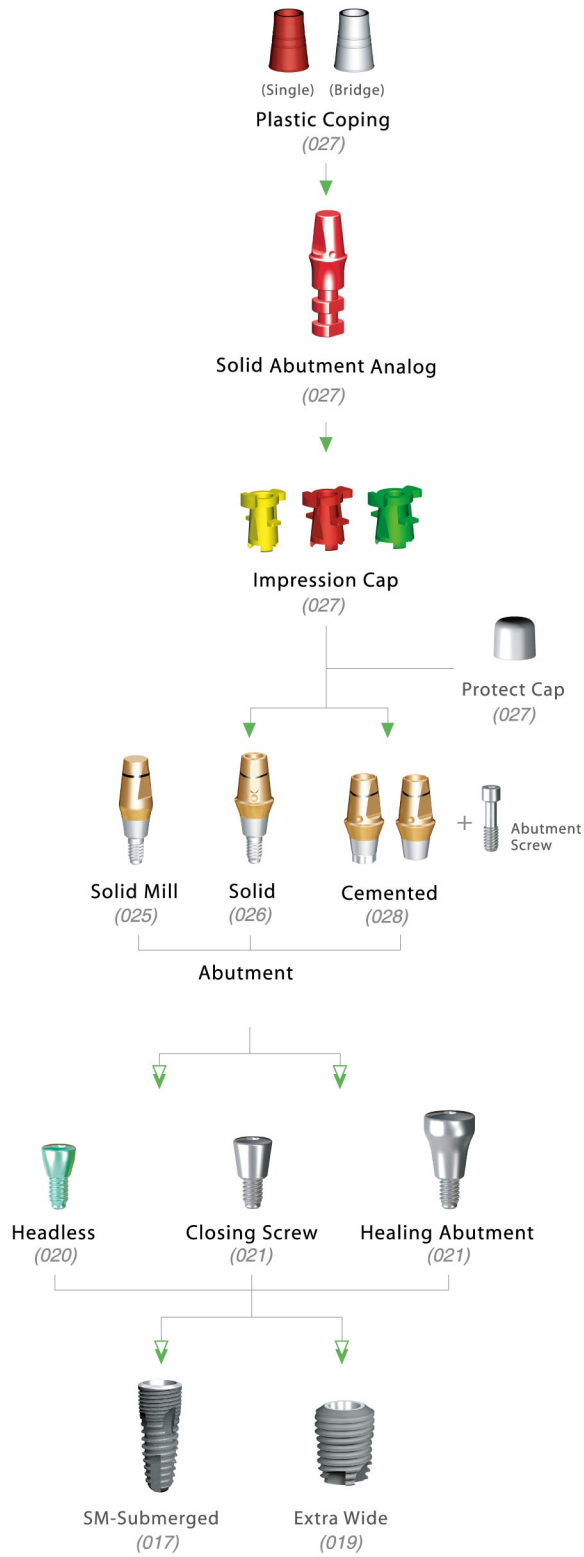
SM

SM Implant System SM-Submerged / Extra Wide



| | |
|-------------------------------------|-----|
| System Flowchart | 014 |
| Implants/Healing Abutments | 017 |
| (Submerged, Extra Wide) | |
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| Surgical Kit | |
| Master Surgical Kit | 036 |
| SM/SM Int. Surgical Kit | 037 |
| Site Preparation (SM) | 044 |
| SM Extra Wide Surgical Kit | 045 |
| Site Preparation (Extra Wide) | 045 |

SM System Flowchart
 Cement-Retained Restorations - Solid Abutment

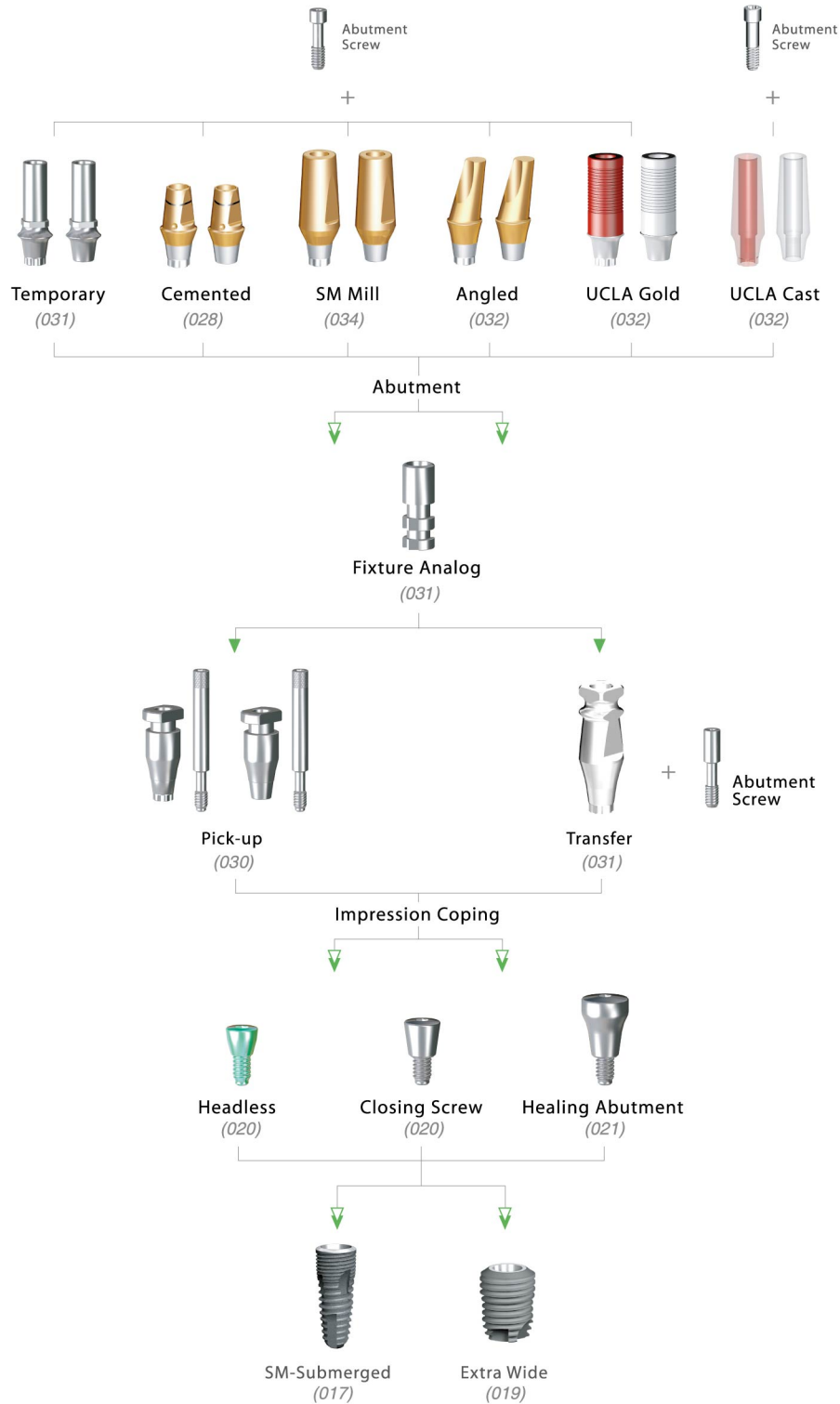


SM System Flowchart

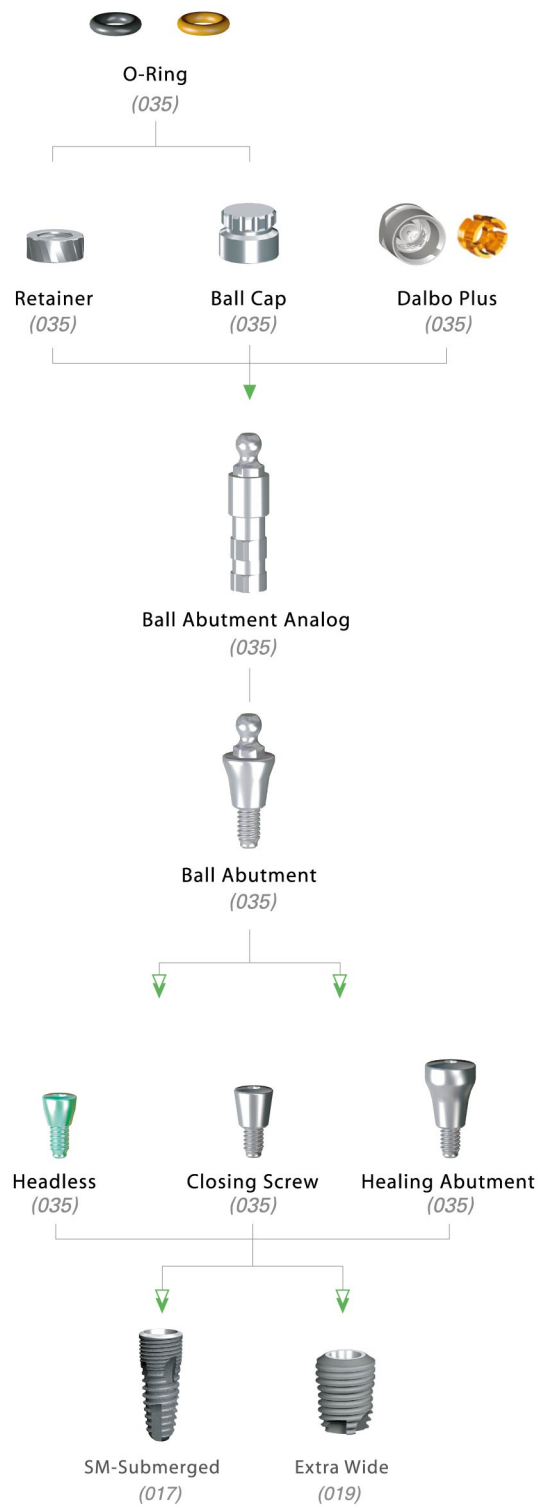
Cement-Retained Restorations - Cemented Abutment

Cement-Retained Restorations - Angled Abutment

Screw-Retained Restorations - UCLA Abutment



SM System Flowchart
 Overdenture-Retained Restorations - Ball Abutment



SM-Submerged Fixture

N N R R W

› Internal Torx Connection

Superior to Hex internal connection
More fixture and driver contact
No distortion with high torque

› Morse Taper

Abutment is easier to insert along the internal
8° morse tapered surface
Due to the wider fixture and abutment contact,
free from screw loosening

› Platform Switching

"Platform Switching" technique is applied to the design
of the implants and abutments to reduce cretal bone loss

› Double Thread

Secure initial seating prevents cortical bone loss

› Root Form Design

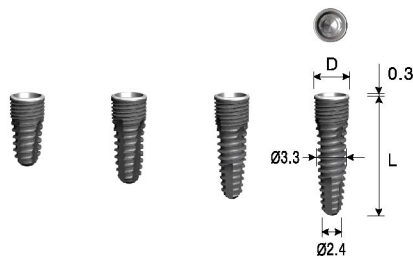
Root form design enables excellent stability
Reduces possibility of touching adjacent teeth root
during implant insertion

› Self Tapping

Advanced thread and apex design enable easy self tapping
and excellent initial stability in extraction sockets



Narrow



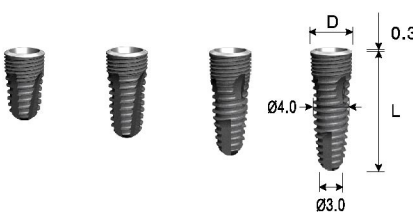
| L \ D | Ø3.8 |
|-------|----------|
| 8 | SFN 3808 |
| 10 | SFN 3810 |
| 12 | SFN 3812 |
| 14 | SFN 3814 |

Narrow



| L \ D | Ø4.1 |
|-------|----------|
| 8 | SFN 4108 |
| 10 | SFN 4110 |
| 12 | SFN 4112 |
| 14 | SFN 4114 |

Regular



| L \ D | Ø4.5 |
|-------|----------|
| 8 | SFR 4508 |
| 10 | SFR 4510 |
| 12 | SFR 4512 |
| 14 | SFR 4514 |

Regular



| L \ D | Ø5.0 |
|-------|----------|
| 8 | SFR 5008 |
| 10 | SFR 5010 |
| 12 | SFR 5012 |
| 14 | SFR 5014 |

Wide



| L \ D | Ø5.3 |
|-------|----------|
| 8 | SFW 5308 |
| 10 | SFW 5310 |
| 12 | SFW 5312 |
| 14 | SFW 5314 |

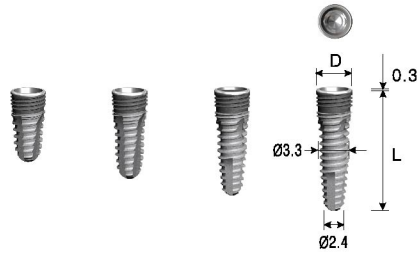
Length: 8 10 12 14

SM-Submerged Fixture

N N R R W

Brushite(CaP)
Coated
"BioTite-H"

Narrow



| L \ D | Ø3.8 |
|-------|-----------|
| 8 | SFN 3808H |
| 10 | SFN 3810H |
| 12 | SFN 3812H |
| 14 | SFN 3814H |

Narrow



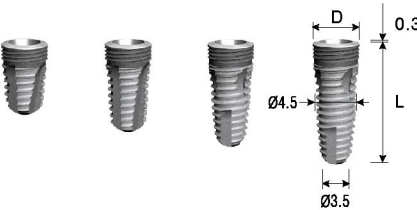
| L \ D | Ø4.1 |
|-------|-----------|
| 8 | SFN 4108H |
| 10 | SFN 4110H |
| 12 | SFN 4112H |
| 14 | SFN 4114H |

Regular



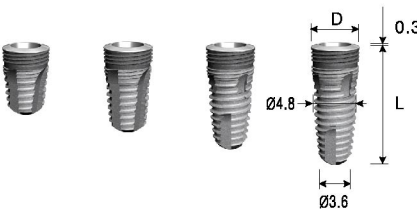
| L \ D | Ø4.5 |
|-------|-----------|
| 8 | SFR 4508H |
| 10 | SFR 4510H |
| 12 | SFR 4512H |
| 14 | SFR 4514H |

Regular



| L \ D | Ø5.0 |
|-------|-----------|
| 8 | SFR 5008H |
| 10 | SFR 5010H |
| 12 | SFR 5012H |
| 14 | SFR 5014H |

Wide



| L \ D | Ø5.3 |
|-------|-----------|
| 8 | SFW 5308H |
| 10 | SFW 5310H |
| 12 | SFW 5312H |
| 14 | SFW 5314H |

Length: 8 10 12 14

SM-Extra Wide Fixture

› Tapered Design

Early loading possible in the initial seating
 Minimized bone heating
 Screw pitch: 0,8mm, Thread height: 0,5mm

› Internal Torx Connection

Superior to Hex internal connection
 More fixture and driver contact
 No distortion with high torque

› No-mount System

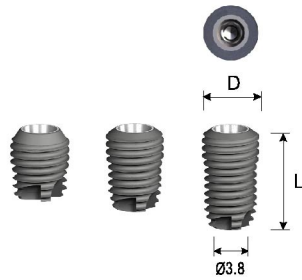
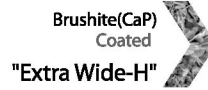
Does not require disassembling of mounts during surgical operations
 Increases convenience and decreases time of surgical operation

› Convenient Compatibility System

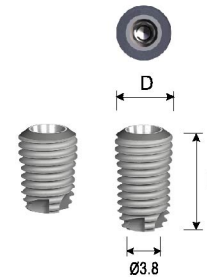
Compatible with the SM Submerge Implant

› Platform Switching

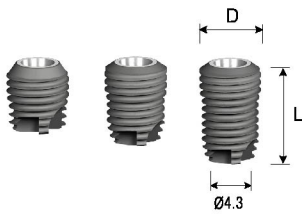
"Platform Switching" technique is applied to the design of the implants and abutments to reduce cretal bone loss



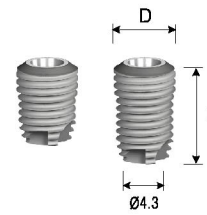
| L \ D | Ø5.9 |
|-------|---------|
| 6 | MX 5906 |
| 8 | MX 5908 |
| 10 | MX 5910 |



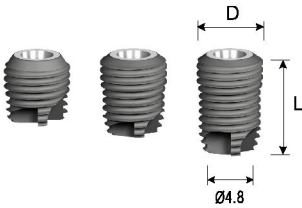
| L \ D | Ø5.9 |
|-------|----------|
| 6 | - |
| 8 | MX 5908B |
| 10 | MX 5910B |



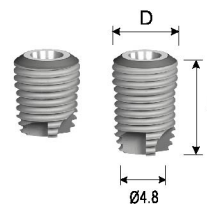
| L \ D | Ø6.4 |
|-------|---------|
| 6 | MX 6406 |
| 8 | MX 6408 |
| 10 | MX 6410 |



| L \ D | Ø6.4 |
|-------|----------|
| 6 | - |
| 8 | MX 6408B |
| 10 | MX 6410B |



| L \ D | Ø6.9 |
|-------|---------|
| 6 | MX 6906 |
| 8 | MX 6908 |
| 10 | MX 6910 |



| L \ D | Ø6.9 |
|-------|----------|
| 6 | - |
| 8 | MX 6908B |
| 10 | MX 6910B |

Length: 6 8 10

Length: 8 10

Headless / Closing Screw

N R W

Headless



| Fixture | Ø3.8 | Ø4.1 | Ø4.5 | Ø5.0 | Ø5.3 |
|---------|----------|------|------|----------|------|
| Code | SSC 3106 | | | SSC 3506 | |

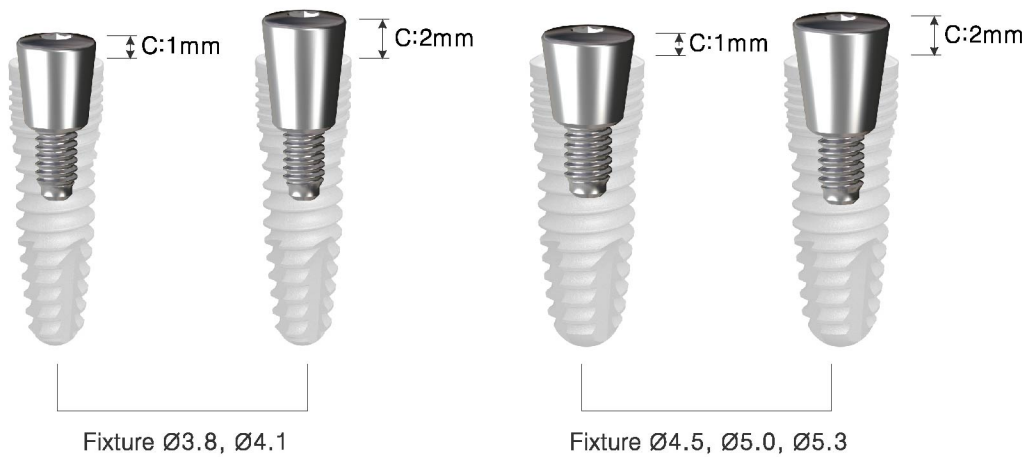
- Color coded fixtures for easy identification
Ø3.8, Ø4.1: Blue / Ø4.5, Ø5.0, Ø5.3: Green
- Uses 1,2 Hex Driver
- Package Contents: Headless
- Tightening Torque: 5-8 Ncm

Closing Screw



| C | Fixture | Ø3.8 | Ø4.1 | Ø4.5 | Ø5.0 | Ø5.3 |
|---|---------|----------|------|----------|------|------|
| 1 | | SSC 3110 | | SSC 3510 | | |
| 2 | | SSC 3120 | | SSC 3520 | | |

- Closing screw used in case of placing implant deeper then bone level
- Uses 1,2 Hex Driver
- Package Contents: Closing Screw
- Tightening Torque: 5-8 Ncm



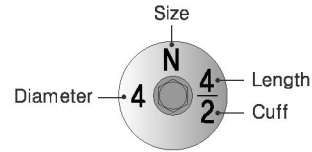
Healing Abutment

N R

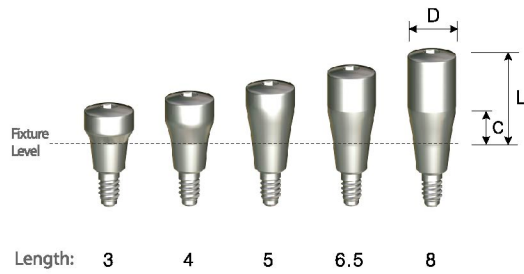
Healing Abutment

- Uses 1,2 Hex Driver
- Package Contents: Healing Abutment
- Tightening Torque: 5-8 Ncm

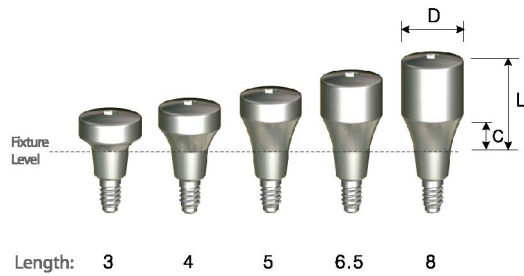
* Laser Marking



Narrow

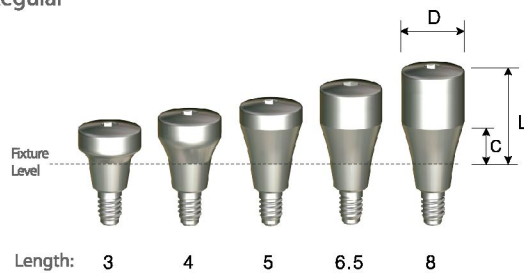


| D | | Ø4.1 | | |
|-------|-----------|-----------|-----------|--|
| L \ C | 1 | 2 | 3 | |
| 3 | SAHN 4113 | - | - | |
| 4 | - | SAHN 4124 | - | |
| 5 | - | - | SAHN 4135 | |
| 6.5 | - | - | SAHN 4136 | |
| 8 | - | - | SAHN 4138 | |



| D | | Ø5.2 | | |
|-------|-----------|-----------|-----------|--|
| L \ C | 1 | 2 | 3 | |
| 3 | SAHN 5213 | - | - | |
| 4 | - | SAHN 5224 | - | |
| 5 | - | - | SAHN 5235 | |
| 6.5 | - | - | SAHN 5236 | |
| 8 | - | - | SAHN 5238 | |

Regular

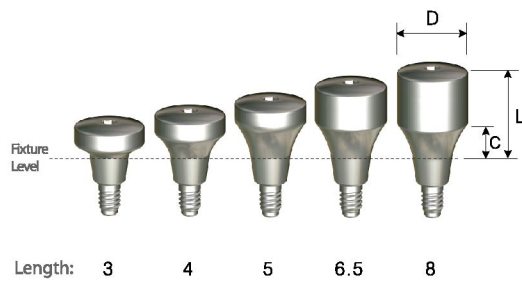


| D | | Ø5.2 | | |
|-------|----------|----------|----------|--|
| L \ C | 1 | 2 | 3 | |
| 3 | SAH 5213 | - | - | |
| 4 | - | SAH 5224 | - | |
| 5 | - | - | SAH 5235 | |
| 6.5 | - | - | SAH 5236 | |
| 8 | - | - | SAH 5238 | |

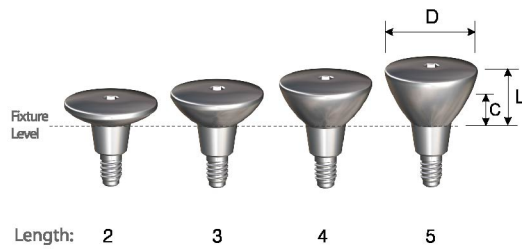
Healing Abutment

W

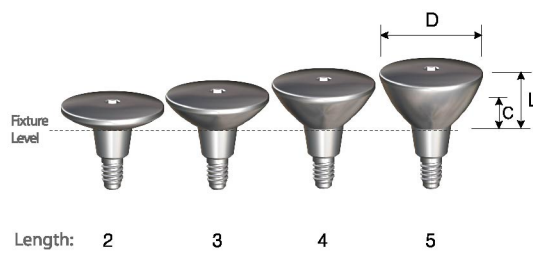
Wide



| D | Ø6.2 | | |
|-------|----------|----------|----------|
| L \ C | 1 | 2 | 3 |
| 3 | SAH 6213 | - | - |
| 4 | - | SAH 6224 | - |
| 5 | - | - | SAH 6235 |
| 6.5 | - | - | SAH 6236 |
| 8 | - | - | SAH 6238 |



| D | Ø8.2 | | | |
|-------|----------|----------|----------|----------|
| L \ C | 1 | 2 | 3 | 4 |
| 2 | SAH 8212 | - | - | - |
| 3 | - | SAH 8223 | - | - |
| 4 | - | - | SAH 8234 | - |
| 5 | - | - | - | SAH 8245 |



| D | Ø9.2 | | | |
|-------|----------|----------|----------|----------|
| L \ C | 1 | 2 | 3 | 4 |
| 2 | SAH 9212 | - | - | - |
| 3 | - | SAH 9223 | - | - |
| 4 | - | - | SAH 9234 | - |
| 5 | - | - | - | SAH 9245 |

Abutments for SM Implant System



Ball
(035)



UCLA Cast
(033)



UCLA Gold
(033)



SM Mill
(034)



Angled
(032)



Cemented
(028)



Solid Mill
(025)

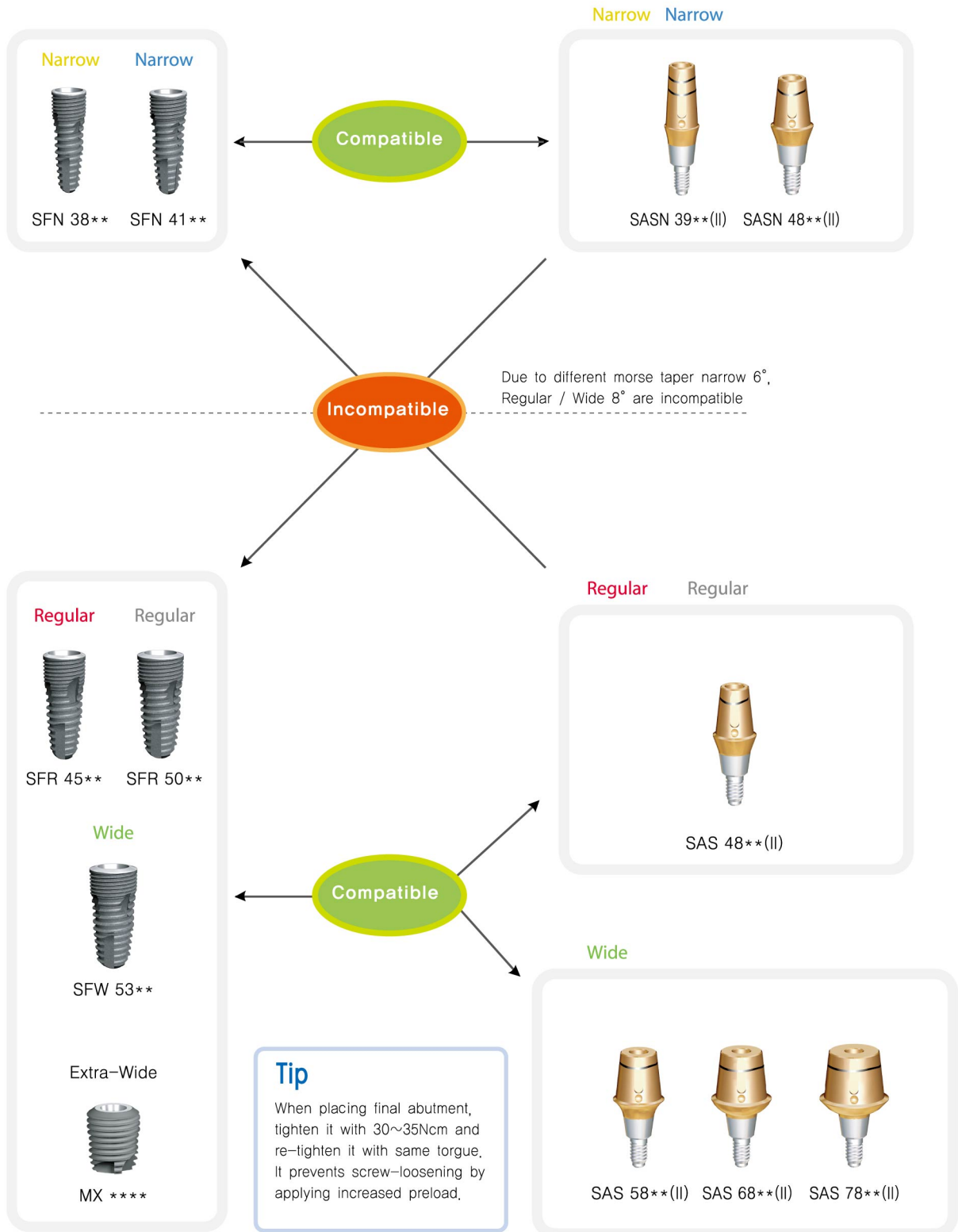


Solid
(026)



Fixture

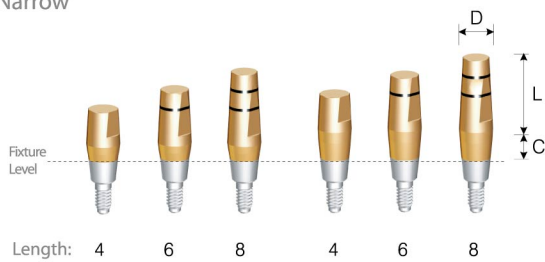
Abutment Selection Guide



Solid Mill Abutment

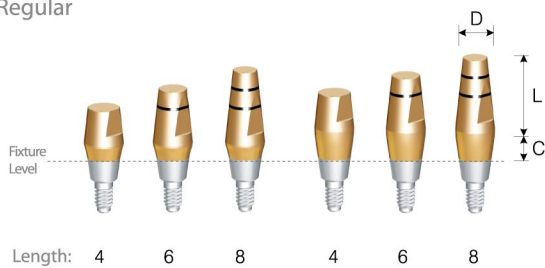
- Used for standard cement type prosthetic fabrication
- Useful in specialized prosthetics and custom abutments
- Single body abutment and screw construction
- Secure tapered connection construction
- Aesthetically designed gold coloring
- Prosthetic rotation prevention
- Uses Ø3,9, Ø4,8, Ø5,8: Solid Abutment Driver
- Package Contents: Abutment
- Tightening Torque: 35 Ncm

Narrow



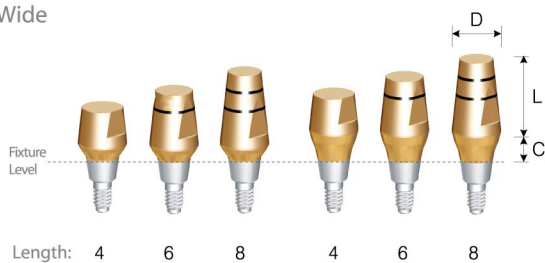
| C | L \ D | Ø3.6 |
|-----|-------|----------|
| 1.5 | 4 | SAS 3614 |
| | 6 | SAS 3616 |
| | 8 | SAS 3618 |
| 3 | 4 | SAS 3634 |
| | 6 | SAS 3636 |
| | 8 | SAS 3638 |

Regular



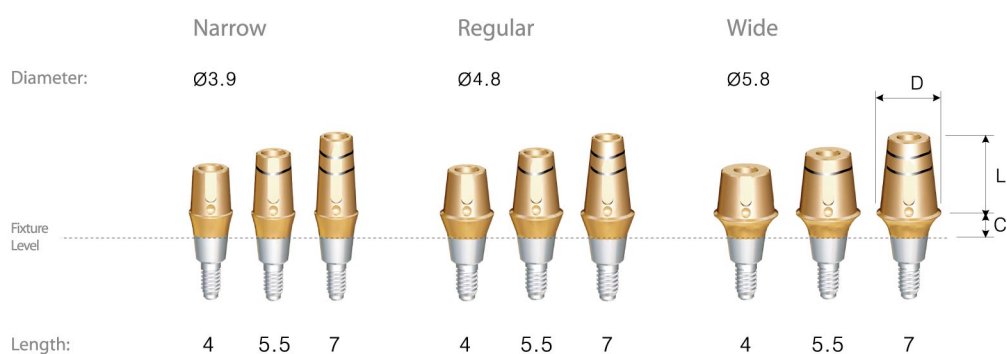
| C | L \ D | Ø4.2 |
|-----|-------|----------|
| 1.5 | 4 | SAS 4214 |
| | 6 | SAS 4216 |
| | 8 | SAS 4218 |
| 3 | 4 | SAS 4234 |
| | 6 | SAS 4236 |
| | 8 | SAS 4238 |

Wide



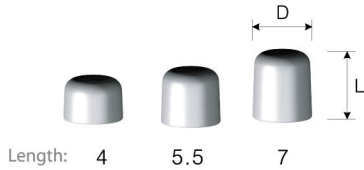
| C | L \ D | Ø5.2 |
|-----|-------|----------|
| 1.5 | 4 | SAS 5214 |
| | 6 | SAS 5216 |
| | 8 | SAS 5218 |
| 3 | 4 | SAS 5234 |
| | 6 | SAS 5236 |
| | 8 | SAS 5238 |

Solid Abutment



| L | C | D | Narrow | | | | | |
|-----|-----|---|---------------|---------------|--------------|--------------|--------------|--------------|
| | | | Ø3.9 | Ø4.8 | Ø4.8 | Ø5.8 | Ø6.8 | Ø7.8 |
| 4 | 1 | | SASN 3914(II) | SASN 4814(II) | SAS 4814(II) | SAS 5814(II) | SAS 6814(II) | SAS 7814(II) |
| | 2 | | SASN 3924(II) | SASN 4824(II) | SAS 4824(II) | SAS 5824(II) | SAS 6824(II) | SAS 7824(II) |
| | 3 | | SASN 3934(II) | SASN 4834(II) | SAS 4834(II) | SAS 5834(II) | SAS 6834(II) | SAS 7834(II) |
| | 4.5 | | SASN 3944(II) | SASN 4844(II) | SAS 4844(II) | SAS 5844(II) | SAS 6844(II) | SAS 7844(II) |
| | 6 | | SASN 3964(II) | SASN 4864(II) | SAS 4864(II) | SAS 5864(II) | SAS 6864(II) | SAS 7864(II) |
| 5.5 | 1 | | SASN 3915(II) | SASN 4815(II) | SAS 4815(II) | SAS 5815(II) | SAS 6815(II) | SAS 7815(II) |
| | 2 | | SASN 3925(II) | SASN 4825(II) | SAS 4825(II) | SAS 5825(II) | SAS 6825(II) | SAS 7825(II) |
| | 3 | | SASN 3935(II) | SASN 4835(II) | SAS 4835(II) | SAS 5835(II) | SAS 6835(II) | SAS 7835(II) |
| | 4.5 | | SASN 3945(II) | SASN 4845(II) | SAS 4845(II) | SAS 5845(II) | SAS 6845(II) | SAS 7845(II) |
| | 6 | | SASN 3965(II) | SASN 4865(II) | SAS 4865(II) | SAS 5865(II) | SAS 6865(II) | SAS 7865(II) |
| 7 | 1 | | SASN 3917(II) | SASN 4817(II) | SAS 4817(II) | SAS 5817(II) | SAS 6817(II) | SAS 7817(II) |
| | 2 | | SASN 3927(II) | SASN 4827(II) | SAS 4827(II) | SAS 5827(II) | SAS 6827(II) | SAS 7827(II) |
| | 3 | | SASN 3937(II) | SASN 4837(II) | SAS 4837(II) | SAS 5837(II) | SAS 6837(II) | SAS 7837(II) |
| | 4.5 | | SASN 3947(II) | SASN 4847(II) | SAS 4847(II) | SAS 5847(II) | SAS 6847(II) | SAS 7847(II) |
| | 6 | | SASN 3967(II) | SASN 4867(II) | SAS 4867(II) | SAS 5867(II) | SAS 6867(II) | SAS 7867(II) |

Protect Cap



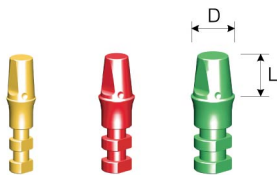
| L \ D | Ø3.9 | Ø4.8 | Ø5.8 | Ø6.8 | Ø7.8 |
|-------|---------------|---------------|---------------|---------------|---------------|
| 4 | SASC 3904(II) | SASC 4804(II) | SASC 5804(II) | SASC 6804(II) | SASC 7804(II) |
| 5.5 | SASC 3905(II) | SASC 4805(II) | SASC 5805(II) | SASC 6805(II) | SASC 7805(II) |
| 7 | SASC 3907(II) | SASC 4807(II) | SASC 5807(II) | SASC 6807(II) | SASC 7807(II) |

Impression Cap



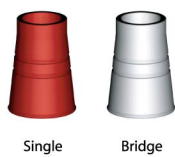
| L \ D | Ø3.9 | Ø4.8 | Ø5.8 | Ø6.8 | Ø7.8 |
|-------|---------------|---------------|---------------|---------------|---------------|
| 10 | SASI 3910(II) | SASI 4810(II) | SASI 5810(II) | SASI 6810(II) | SASI 7810(II) |

Solid Abutment Analog



| L \ D | Ø3.9 | Ø4.8 | Ø5.8 | Ø6.8 | Ø7.8 |
|-------|---------------|---------------|---------------|---------------|---------------|
| 4 | SASA 3904(II) | SASA 4804(II) | SASA 5804(II) | SASA 6804(II) | SASA 7804(II) |
| 5.5 | SASA 3905(II) | SASA 4805(II) | SASA 5805(II) | SASA 6805(II) | SASA 7805(II) |
| 7 | SASA 3907(II) | SASA 4807(II) | SASA 5807(II) | SASA 6807(II) | SASA 7807(II) |

Plastic Coping

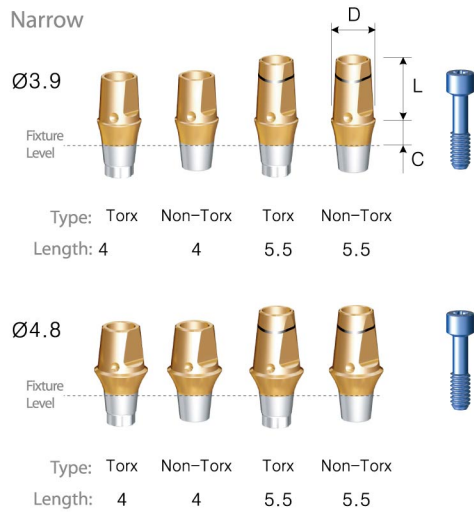


| L \ D | Ø3.9 | Ø4.8 | Ø5.8 | Ø6.8 | Ø7.8 |
|-------|----------------|----------------|----------------|----------------|----------------|
| 10 | SASP 3910S(II) | SASP 4810S(II) | SASP 5810S(II) | SASP 6810S(II) | SASP 7810S(II) |
| | SASP 3910B(II) | SASP 4810B(II) | SASP 5810B(II) | SASP 6810B(II) | SASP 7810B(II) |

Cemented Abutment

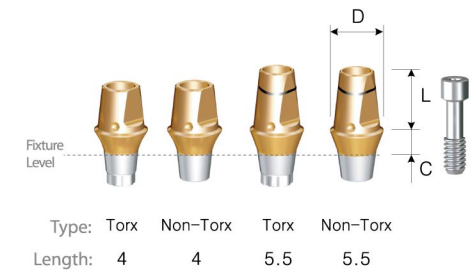


Narrow



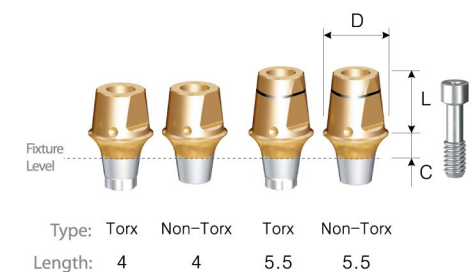
| D | | Ø3.9 | | Ø4.8 | |
|-----|------|----------------|----------------|----------------|----------------|
| L | Type | Torx | Non-Torx | Torx | Non-Torx |
| 4 | 1 | SACN 3914T(II) | SACN 3914N(II) | SACN 4814T(II) | SACN 4814N(II) |
| | 2 | SACN 3924T(II) | SACN 3924N(II) | SACN 4824T(II) | SACN 4824N(II) |
| | 3 | SACN 3934T(II) | SACN 3934N(II) | SACN 4834T(II) | SACN 4834N(II) |
| | 4.5 | SACN 3944T(II) | SACN 3944N(II) | SACN 4844T(II) | SACN 4844N(II) |
| | 6 | SACN 3964T(II) | SACN 3964N(II) | SACN 4864T(II) | SACN 4864N(II) |
| 5.5 | 1 | SACN 3915T(II) | SACN 3915N(II) | SACN 4815T(II) | SACN 4815N(II) |
| | 2 | SACN 3925T(II) | SACN 3925N(II) | SACN 4825T(II) | SACN 4825N(II) |
| | 3 | SACN 3935T(II) | SACN 3935N(II) | SACN 4835T(II) | SACN 4835N(II) |
| | 4.5 | SACN 3945T(II) | SACN 3945N(II) | SACN 4845T(II) | SACN 4845N(II) |
| | 6 | SACN 3965T(II) | SACN 3965N(II) | SACN 4865T(II) | SACN 4865N(II) |

Regular



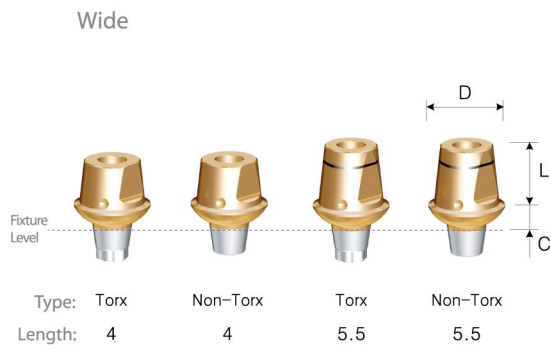
| D | | Ø4.8 | |
|-----|------|---------------|---------------|
| L | Type | Torx | Non-Torx |
| 4 | 1 | SAC 4814T(II) | SAC 4814N(II) |
| | 2 | SAC 4824T(II) | SAC 4824N(II) |
| | 3 | SAC 4834T(II) | SAC 4834N(II) |
| | 4.5 | SAC 4844T(II) | SAC 4844N(II) |
| | 6 | SAC 4864T(II) | SAC 4864N(II) |
| 5.5 | 1 | SAC 4815T(II) | SAC 4815N(II) |
| | 2 | SAC 4825T(II) | SAC 4825N(II) |
| | 3 | SAC 4835T(II) | SAC 4835N(II) |
| | 4.5 | SAC 4845T(II) | SAC 4845N(II) |
| | 6 | SAC 4865T(II) | SAC 4865N(II) |

Wide

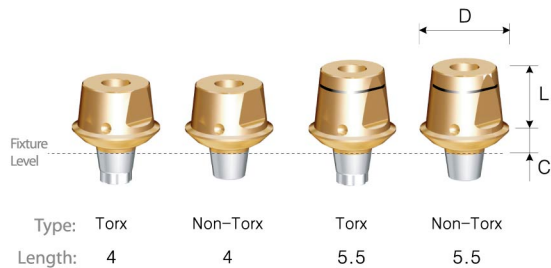


| D | | Ø5.8 | |
|-----|------|---------------|---------------|
| L | Type | Torx | Non-Torx |
| 4 | 1 | SAC 5814T(II) | SAC 5814N(II) |
| | 2 | SAC 5824T(II) | SAC 5824N(II) |
| | 3 | SAC 5834T(II) | SAC 5834N(II) |
| | 4.5 | SAC 5844T(II) | SAC 5844N(II) |
| | 6 | SAC 5864T(II) | SAC 5864N(II) |
| 5.5 | 1 | SAC 5815T(II) | SAC 5815N(II) |
| | 2 | SAC 5825T(II) | SAC 5825N(II) |
| | 3 | SAC 5835T(II) | SAC 5835N(II) |
| | 4.5 | SAC 5845T(II) | SAC 5845N(II) |
| | 6 | SAC 5865T(II) | SAC 5865N(II) |

Cemented Abutment



| D | | Ø6.8 | |
|-----|-----|---------------|---------------|
| L | C | Type | |
| | | Torx | Non-Torx |
| 4 | 1 | SAC 6814T(II) | SAC 6814N(II) |
| | 2 | SAC 6824T(II) | SAC 6824N(II) |
| | 3 | SAC 6834T(II) | SAC 6834N(II) |
| | 4.5 | SAC 6844T(II) | SAC 6844N(II) |
| | 6 | SAC 6864T(II) | SAC 6864N(II) |
| 5.5 | 1 | SAC 6815T(II) | SAC 6815N(II) |
| | 2 | SAC 6825T(II) | SAC 6825N(II) |
| | 3 | SAC 6835T(II) | SAC 6835N(II) |
| | 4.5 | SAC 6845T(II) | SAC 6845N(II) |
| | 6 | SAC 6865T(II) | SAC 6865N(II) |



| D | | Ø7.8 | |
|-----|-----|---------------|---------------|
| L | C | Type | |
| | | Torx | Non-Torx |
| 4 | 1 | SAC 7814T(II) | SAC 7814N(II) |
| | 2 | SAC 7824T(II) | SAC 7824N(II) |
| | 3 | SAC 7834T(II) | SAC 7834N(II) |
| | 4.5 | SAC 7844T(II) | SAC 7844N(II) |
| | 6 | SAC 7864T(II) | SAC 7864N(II) |
| 5.5 | 1 | SAC 7815T(II) | SAC 7815N(II) |
| | 2 | SAC 7825T(II) | SAC 7825N(II) |
| | 3 | SAC 7835T(II) | SAC 7835N(II) |
| | 4.5 | SAC 7845T(II) | SAC 7845N(II) |
| | 6 | SAC 7865T(II) | SAC 7865N(II) |

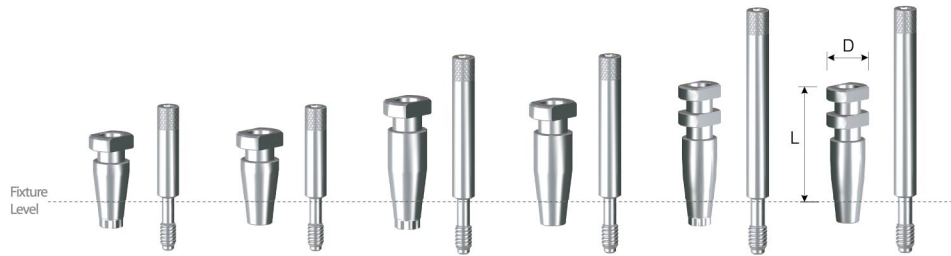
Tip As post shape of SM Cemented Abutment is same as that of Solid Abutment, taking impression using solid impression cap is possible as in cemented Abutment

Pick-up Impression Coping

- Used for pick-up impressions with custom trays
- Uses 1,2 Hex Driver
- Package Contents: Impression Coping + Guide Pin



Narrow



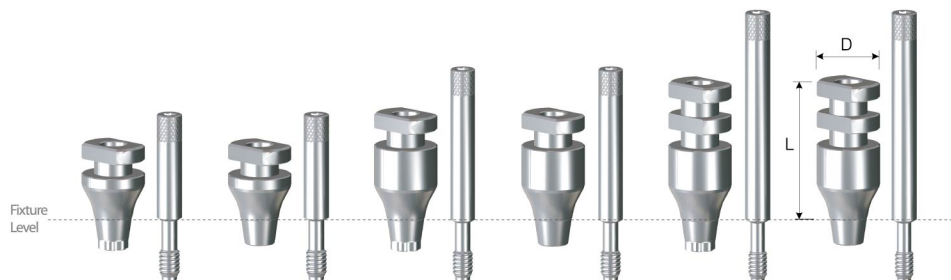
| | | | | | | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| D | Ø3.9 | | | | | |
| L | 7 | | 10 | | 13 | |
| Type | Torx | Non-Torx | Torx | Non-Torx | Torx | Non-Torx |
| Code | SIP 3907T | SIP 3907N | SIP 3910T | SIP 3910N | SIP 3913T | SIP 3913N |

Regular



| | | | | | | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| D | Ø4.8 | | | | | |
| L | 7 | | 10 | | 13 | |
| Type | Torx | Non-Torx | Torx | Non-Torx | Torx | Non-Torx |
| Code | SIP 4807T | SIP 4807N | SIP 4810T | SIP 4810N | SIP 4813T | SIP 4813N |

Wide



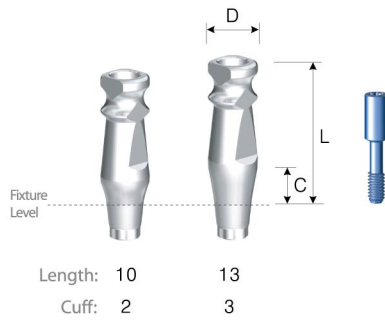
| | | | | | | |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| D | Ø5.8 | | | | | |
| L | 7 | | 10 | | 13 | |
| Type | Torx | Non-Torx | Torx | Non-Torx | Torx | Non-Torx |
| Code | SIP 5807T | SIP 5807N | SIP 5810T | SIP 5810N | SIP 5813T | SIP 5813N |

Transfer Impression Coping

- Used for Transfer Type impressions with custom trays
- Enhanced customization after impression made possible by its rectangular construction
- Two-Piece Construction
- Uses 1,7 Torx Driver
- Package Contents: Impression Coping + Screw



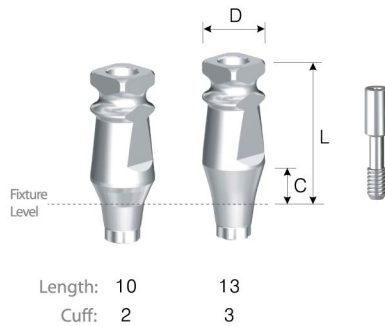
Narrow



| L | C | D | Ø4.1 |
|----|---|---|-----------|
| 10 | 2 | | SIT 4102T |
| 13 | 3 | | SIT 4103T |

Length: 10 13
 Cuff: 2 3

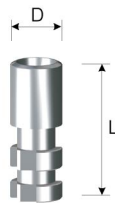
Regular Wide



| L | C | D | Ø5.2 | Ø5.2 |
|----|---|---|-----------|------|
| 10 | 2 | | SIT 5202T | |
| 13 | 3 | | SIT 5203T | |

Length: 10 13
 Cuff: 2 3

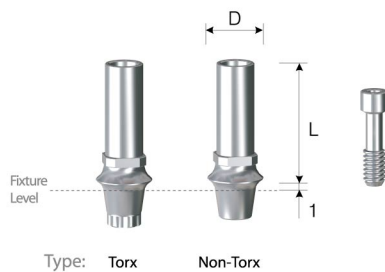
Fixture Analog



| L | D | Ø3.8 | Ø4.5 | Ø4.5 |
|----|---|----------|----------|------|
| 12 | | SAF 3812 | SAF 4512 | |

- Provides anchor point for fabricating implant prosthetics on working model.
- Package Contents: Analog

Temporary Abutment



| L | Type | D | Ø3.9 | Ø4.8 | Ø5.8 |
|----|----------|---|-----------|-----------|-----------|
| 10 | Torx | | SAT 3910T | SAT 4810T | SAT 5810T |
| | Non-Torx | | SAT 3910N | SAT 4810N | SAT 5810N |

- Used in prosthetic fabrication
- Customizable
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 30 Ncm

Restorative Products
Angled Abutment

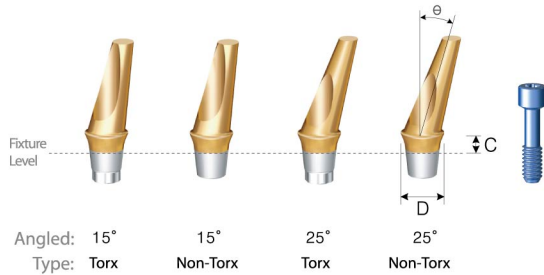


Angled Abutment

- Secure tapered connection construction
- Aesthetically designed gold coloring
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

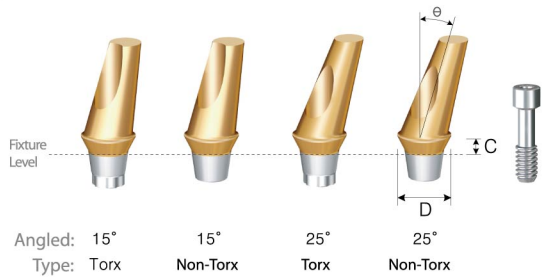


Narrow



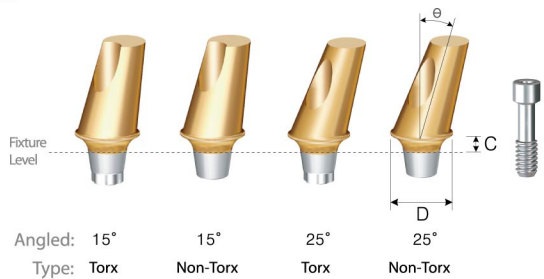
| D | | Ø3.9 | |
|-----|--------------|------------|------------|
| C | Angled Type | | |
| | 15° | 25° | |
| 1.5 | Torx(A Type) | SAA 39115A | SAA 39125A |
| | Torx(B Type) | SAA 39115B | SAA 39125B |
| | Non-Torx | SAA 39115 | SAA 39125 |
| 3 | Torx(A Type) | SAA 39315A | SAA 39325A |
| | Torx(B Type) | SAA 39315B | SAA 39325B |
| | Non-Torx | SAA 39315 | SAA 39325 |

Regular



| D | | Ø4.8 | |
|-----|--------------|------------|------------|
| C | Angled Type | | |
| | 15° | 25° | |
| 1.5 | Torx(A Type) | SAA 48115A | SAA 48125A |
| | Torx(B Type) | SAA 48115B | SAA 48125B |
| | Non-Torx | SAA 48115 | SAA 48125 |
| 3 | Torx(A Type) | SAA 48315A | SAA 48325A |
| | Torx(B Type) | SAA 48315B | SAA 48325B |
| | Non-Torx | SAA 48315 | SAA 48325 |

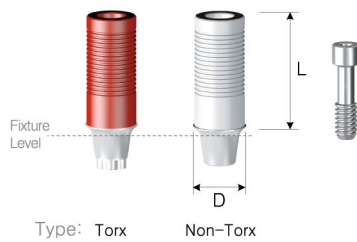
Wide



| D | | Ø5.8 | |
|-----|--------------|------------|------------|
| C | Angled Type | | |
| | 15° | 25° | |
| 1.5 | Torx(A Type) | SAA 58115A | SAA 58125A |
| | Torx(B Type) | SAA 58115B | SAA 58125B |
| | Non-Torx | SAA 58115 | SAA 58125 |
| 3 | Torx(A Type) | SAA 58315A | SAA 58325A |
| | Torx(B Type) | SAA 58315B | SAA 58325B |
| | Non-Torx | SAA 58315 | SAA 58325 |

UCLA Gold Abutment

- Used for superior aesthetics and precision
- Secure tapered connection construction
- Gold casting for ultimate customization
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

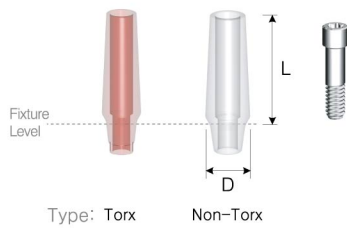


| L | D | | Ø3.9 | Ø4.8 | Ø4.8 |
|----|----------|--|-----------|-----------|------|
| | Type | | | | |
| 10 | Torx | | SAG 3910T | SAG 4810T | |
| | Non-Torx | | SAG 3910N | SAG 4810N | |

UCLA Cast Abutment

- Used for superior aesthetics and customization
- Gold casting for ultimate customization
- Less precise than the UCLA Gold Abutment
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

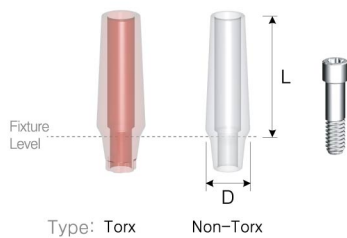
Narrow



| L | D | | Ø4.0 |
|------|----------|--|-----------|
| | Type | | |
| 11.7 | Torx | | SCA 4014T |
| | Non-Torx | | SCA 4014N |

*Screw: SSC 1808C

Regular Wide

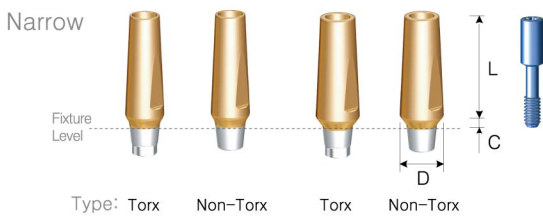


| L | D | | Ø4.5 | Ø4.5 |
|------|----------|--|-----------|------|
| | Type | | | |
| 11.7 | Torx | | SCA 4514T | |
| | Non-Torx | | SCA 4514N | |

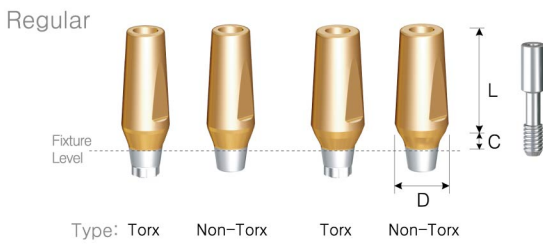
*Screw: SSC 2008C

SM Mill Abutment

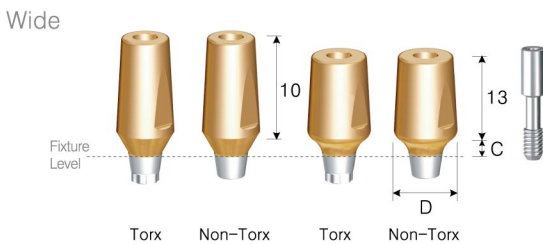
- Used for when high customization in abutment path and prosthetic margins are needed
- Secure tapered connection construction
- Aesthetically designed gold coloring
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm



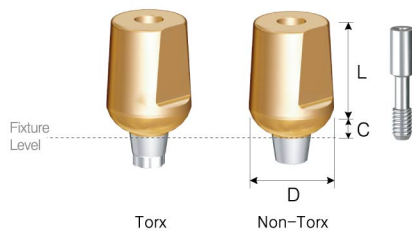
| C | L | D | | Ø4.0 | Ø4.5 |
|-----|------|----------|--|-----------|-----------|
| | | Type | | | |
| 1.2 | 10.5 | Torx | | SMA 4014T | SMA 4514T |
| | | Non-Torx | | SMA 4014N | SMA 4514N |



| C | L | D | | Ø5.0 | Ø5.5 |
|-----|----|----------|--|-----------|-----------|
| | | Type | | | |
| 2.3 | 10 | Torx | | SMA 5015T | SMA 5515T |
| | | Non-Torx | | SMA 5015N | SMA 5515N |

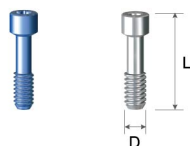


| C | L | D | | Ø6.0 | Ø6.5 |
|-----|---------|----------|--|-----------|-----------|
| | | Type | | | |
| 2.3 | 10 / 13 | Torx | | SMA 6015T | SMA 6513T |
| | | Non-Torx | | SMA 6015N | SMA 6513N |



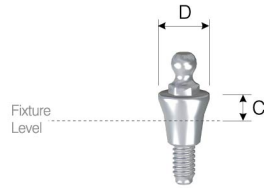
| C | L | D | | Ø7.5 |
|-----|----|----------|--|-----------|
| | | Type | | |
| 2.3 | 13 | Torx | | SMA 7513T |
| | | Non-Torx | | SMA 7513N |

Abutment Screw



| L | D | | |
|------|----------|----------|------|
| | Ø1.8 | Ø2.0 | Ø2.0 |
| 8.5 | SSC 1808 | SSC 2008 | |
| 11.5 | SSC 1812 | SSC 2012 | |

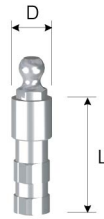
Ball Abutment



| C \ D | Ø3.9 | Ø4.5 | Ø4.5 |
|-------|----------|----------|------|
| 2 | SAB 3902 | SAB 4502 | |
| 4 | SAB 3904 | SAB 4504 | |

- Used in conjunction with ball type overdenture prosthetic fabrication
- O-Ring Types
- Black: Laboratory type
- Orange: Clinical type
- Uses O-Ring for ball retention
- Up to a 20° compensation
- Uses ball abutment driver
- Package Contents: Abutment + O-Ring
- Tightening Torque: 35 Ncm

Ball Abutment Analog



| L \ D | Ø3.5 | Ø3.5 | Ø3.5 |
|-------|-----------|------|------|
| 10 | SABA 3510 | | |

- Provides anchor point for ball abutment on working model
- Package Contents: Analog

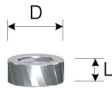
Dalbo Plus



| | Narrow | Regular | Wide |
|------|----------|---------|------|
| Code | DBPM 201 | | |

- Titanium housing with 2 stage construction
- Rated for up to 10,000 uses with minimum abrasion to the ball abutment and to the insert
- Simple and convenient retention
- Up to 20° in insertion angle flexibility
- Compatible with all DIO Implant systems

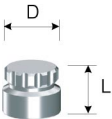
Retainer



| L \ D | Ø5.0 | Ø5.0 | Ø5.0 |
|-------|---------|------|------|
| 2 | RT 0502 | | |

- Packing Contents: Retainer + O-Ring

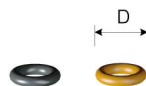
Ball Cap



| L \ D | Ø5.0 | Ø5.0 | Ø5.0 |
|-------|---------|------|------|
| 4 | BC 5004 | | |

- Superior retention and removability
- Package Contents: Ball Cap + O-Ring

O-Ring



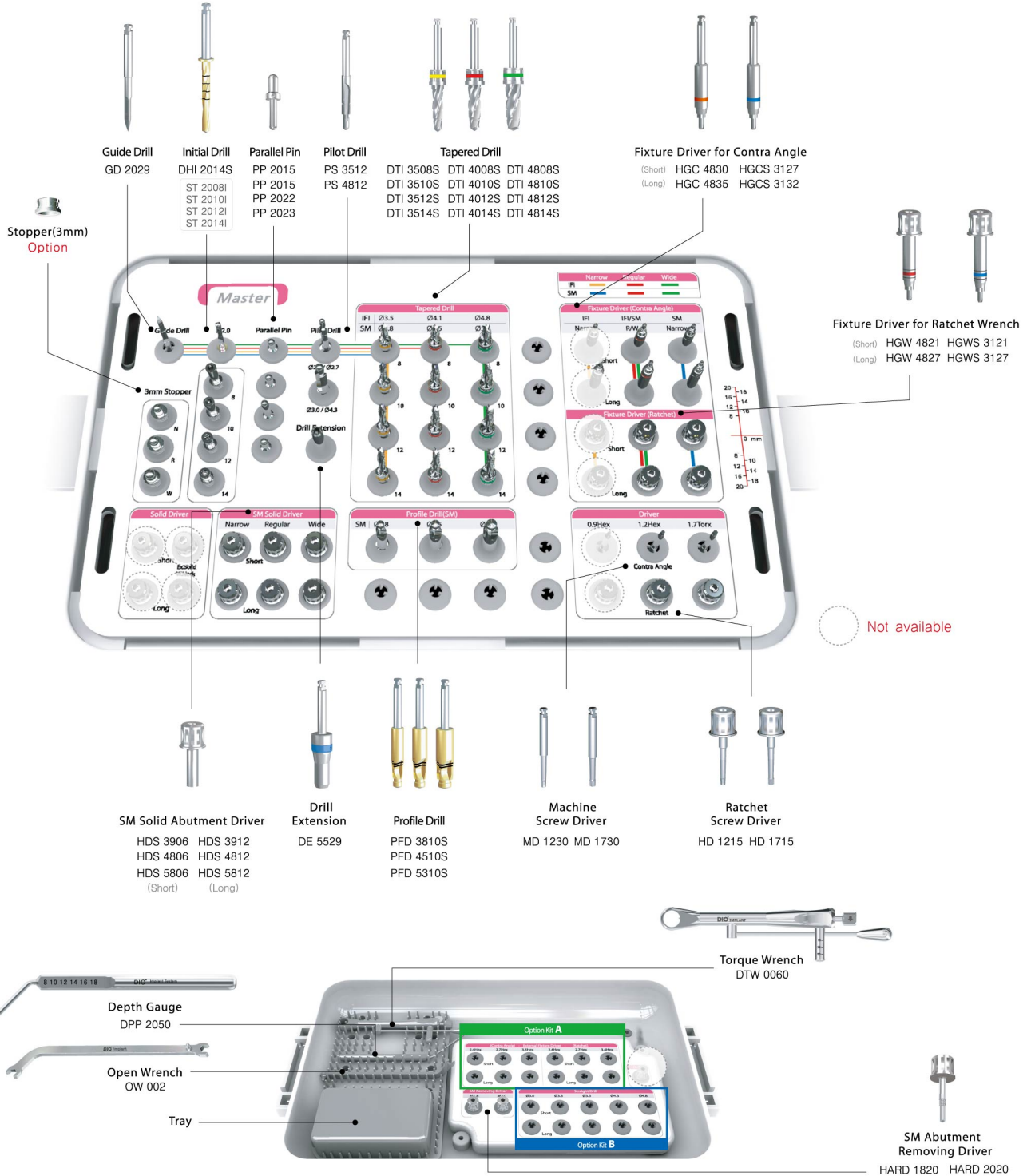
| Type \ D | Ø4.5 | Ø4.5 | Ø4.5 |
|----------|----------|------|------|
| Black | OR 0450B | | |
| Orange | OR 04500 | | |

- Black: Laboratory used for fabrications with high retention
- Orange: For clinical use(over 6 Ncm)
- Package Contents: O-Ring (1 piece)

Master Surgical Kit

SM Implant System(SM-Submerged)

SM System



Master KIT Option

| | | |
|--------------|---|---|
| Option Kit A | Fixture Driver for Contra Angle HGC 3524 HGC 4024 HGC 5024 HGC 3530 HGC 4030 HGC 5030 | Fixture Driver for Ratchet Wrench HGW 3513 HGW 4013 HGW 5013 HGW 3521 HGW 4021 HGW 5021 |
| | Option Kit B *Choose No.1(PSI) or No.2(FSN) | Straight Drill 1. For PSI Implant(Internal) SDS 3010A SDS 3310A SDS 3510A SDS 4310A SDS 4810A SDS 3014A SDS 3314A SDS 3514A SDS 4314A SDS 4814A |
| Option Kit C | Option Kit A + Option Kit B | |
| | Straight Drill 2. For FSN Implant(External) SDS 3010B SDS 3310B SDS 3510B SDS 4310B SDS 4810B SDS 3015B SDS 3315B SDS 3515B SDS 4315B SDS 4815B | |

SM / SM Int. Surgical Kit

SM Implant System (SM-Submerged)

SM System

Guide Drill
GD 2029

Initial Drill
DHI 2014S
ST 2008I
ST 2010I
ST 2012I
ST 2014I

Parallel Pin
PP 2022
PP 2023

Pilot Drill
PS 3512

Straight Drill
SDS 2714A

Tapered Drill
DTS 3808 DTS 4108 DTS 4508 DTS 5008 DTS 5308
DTS 3810 DTS 4110 DTS 4510 DTS 5010 DTS 5310
DTS 3812 DTS 4112 DTS 4512 DTS 5012 DTS 5312
DTS 3814 DTS 4114 DTS 4514 DTS 5014 DTS 5314

Fixture Driver for Contra Angle
(Short) HGCS 3127 HGC 4830
(Long) HGCS 3132 HGC 4835

Fixture Driver for Ratchet Wrench
(Short) HGWS 3121A HGW 4821A
(Long) HGWS 3127A HGW 4827A

Removing
M1.8 (Narrow)
M2.0 (RW)

SM Solid Driver
Narrow Regular Wide
Short Long

Tap Drill
Ø2.8 Ø4.1 Ø4.5 Ø5.0 Ø5.3

Driver
1.2Hex 1.7Torx
Contra Ratchet

Abutment Removing Driver
HARD 1815A
HARD 2015A

Solid Abutment Driver
HDS 3906A HDS 3912A
HDS 4806A HDS 4812A
HDS 5806A HDS 5812A

Tap Drill
TPS 3812
TPS 4112
TPS 4512
TPS 5012
TPS 5312

Machine Screw Driver
MD 1230 MD 1730

Ratchet Screw Driver
HD 1215A HD 1715A

DPI 2050
Depth Gauge

OW 002
Open Wrench

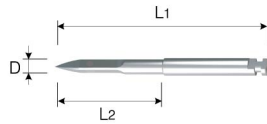
DRW 0050
Ratchet Wrench

Tray

Surgical Instruments

SM Implant System(SM-Submerged)

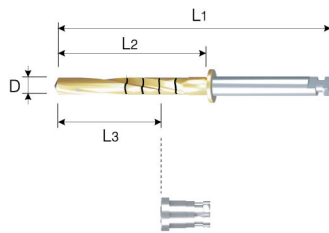
Guide Drill



| L1/L2 | D | |
|-------|---|---------|
| | | Ø2.0 |
| 25/11 | | GD 2025 |
| 29/15 | | GD 2029 |

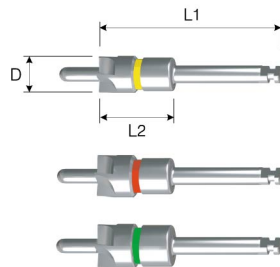
- Used for drilling initial hole in bone tissue
- Bone density ascertainable during drilling

Initial Drill



| | |
|------|-----------|
| D | Ø2.0 |
| L1 | 33 |
| L2 | 18 |
| Code | DHI 2014S |
| L3 | Stopper |
| 8 | ST 2008I |
| 10 | ST 2010I |
| 12 | ST 2012I |
| 14 | ST 2014I |

Bone Planer



| L1/L2 | D | Ø4.95 | Ø5.65 | Ø5.9 |
|---------|---|---------|---------|---------|
| 24.5/10 | | BP 5010 | BP 5710 | BP 5910 |

- Creates a flat surface on bone
- Extracts desired bone with bone planer after initial drilling
- Handpiece speed: 400-600 rpm

Drill Extension



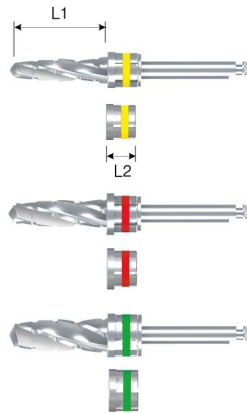
| L | Code |
|------|---------|
| 29.7 | DE 5529 |

- Provides extra length for drills used with handpieces
- Connects to the flat surface of the drill shank

Surgical Instruments

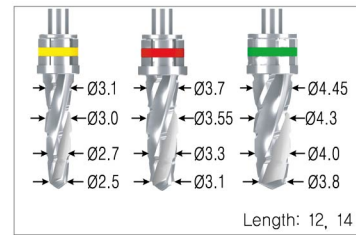
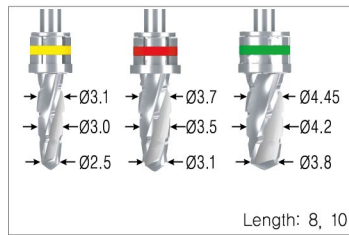
SM Implant System(SM-Submerged)

Tapered Drill

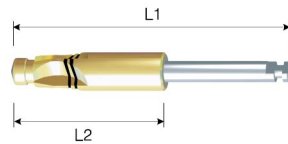


| L1 | Fixture Dia. | Ø3.5 | Ø4.0 | Ø4.8 |
|----|--------------|-----------|-----------|-----------|
| 8 | | DTI 3508S | DTI 4008S | DTI 4808S |
| 10 | | DTI 3510S | DTI 4010S | DTI 4810S |
| 12 | | DTI 3512S | DTI 4012S | DTI 4812S |
| 14 | | DTI 3514S | DTI 4014S | DTI 4814S |

| L2 | Stopper | | |
|----|----------|----------|----------|
| 4 | ST 3500I | ST 4000I | ST 4800I |
| 3 | ST 3501I | ST 4001I | ST 4801I |

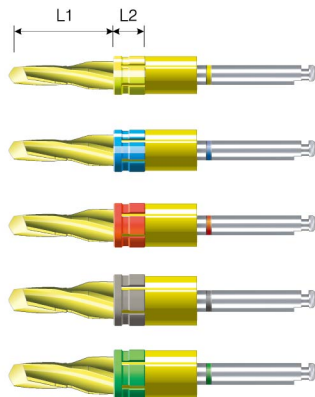


Profile Drill



| L1/L2 | Fixture Dia. | Ø3.8 | Ø4.5 | Ø5.3 |
|-----------|--------------|-----------|-----------|-----------|
| 26.3/12.3 | | PFD 3805S | PFD 4505S | PFD 5305S |
| 31.3/17.3 | | PFD 3810S | PFD 4510S | PFD 5310S |
| 36.3/22.3 | | PFD 3815S | PFD 4515S | PFD 5315S |

SM Tapered Drill



| L1 | Fixture Dia. | Ø3.8 | Ø4.1 | Ø4.5 | Ø5.0 | Ø5.3 |
|----|--------------|----------|----------|----------|----------|----------|
| 8 | | DTS 3808 | DTS 4108 | DTS 4508 | DTS 5008 | DTS 5308 |
| 10 | | DTS 3810 | DTS 4110 | DTS 4510 | DTS 5010 | DTS 5310 |
| 12 | | DTS 3812 | DTS 4112 | DTS 4512 | DTS 5012 | DTS 5312 |
| 14 | | DTS 3814 | DTS 4114 | DTS 4514 | DTS 5014 | DTS 5314 |

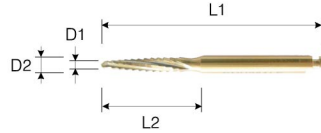
| L2 | Stopper | | | | |
|----|---------|---------|---------|---------|---------|
| 4 | ST 3804 | ST 4104 | ST 4504 | ST 5004 | ST 5304 |
| 3 | ST 3803 | ST 4103 | ST 4503 | ST 5003 | ST 5303 |

-SM Tapered Drill(Tapered+Profile drill)

Surgical Instruments

SM Implant System(SM-Submerged)

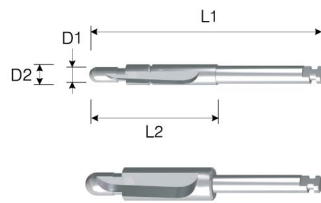
Lindemann Drill



| | | |
|-------|-------|-----------|
| L1/L2 | D1/D2 | Ø1.4/Ø2.0 |
| 30/14 | | RMH 2014S |

- Provides drill direction adjustment
- Useful in site preparation and ridge reduction in extractions

Pilot Drill

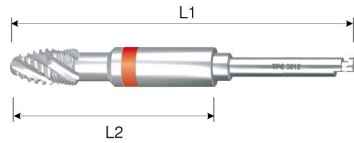


| | | |
|-------|-------|-----------|
| L1/L2 | D1/D2 | Ø2.0/Ø2.7 |
| 31/17 | | PS 3512 |

| | | |
|-------|-------|-----------|
| L1/L2 | D1/D2 | Ø3.0/Ø4.3 |
| 31/17 | | PS 4812 |

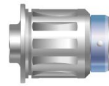
- Creates a path for drilling hole
- Creates accurate guide holes for the next step in surgical extraction

Tap Drill



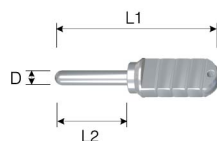
| L1/L2 | Fixture Dia. | Ø3.8 | Ø4.1 | Ø4.5 | Ø5.0 | Ø5.3 |
|-----------|--------------|----------|----------|----------|----------|----------|
| 36.2/20.2 | | TPS 3812 | TPS 4112 | TPS 4512 | TPS 5012 | TPS 5312 |
| 41.2/25.2 | | TPS 3817 | TPS 4117 | TPS 4517 | TPS 5017 | TPS 5317 |

Ratchet Adapter



| | |
|------|---------|
| Code | RA 8011 |
|------|---------|

Positioning Guide



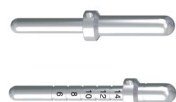
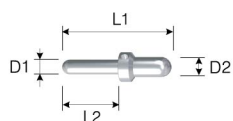
| | | |
|-------|---|---------|
| L1/L2 | D | Ø2.0 |
| 22/10 | | PG 0050 |

- Marks space between fixtures
- Used after initial drilling

Surgical Instruments

SM Implant System(SM-Submerged)

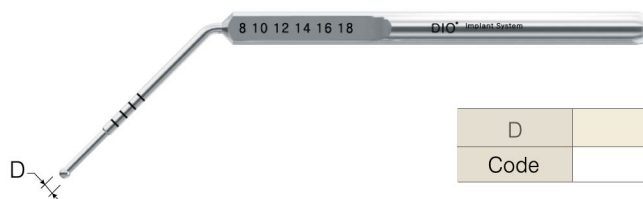
Parallel Pin



| L1/L2 | D1/D2 |
|-------|-----------|
| | Ø2.0/Ø2.7 |
| 15/8 | PP 2015 |
| 22/10 | PP 2022 |
| 23/16 | PP 2023 |

- Provides location and direction of site preparation
- Drill site depth survey
- Package Contents: Available as a part of a set or individual packaging

Depth Gauge



| | |
|------|----------|
| D | Ø2.0 |
| Code | DPP 2050 |

Torque Wrench



| | |
|------|----------|
| Code | DTW 0060 |
|------|----------|

- Used in fixture implantation or screw repair
- Torque values (0, 15, 35, 50 Ncm) laser etched into the handle
- Convenient disassembly for easy cleaning

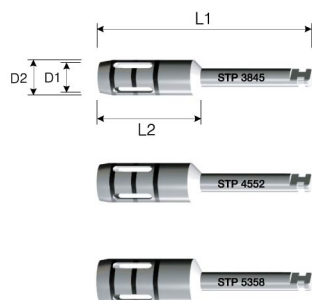
Open Wrench



| | |
|------|--------|
| Code | OW 002 |
|------|--------|

- Used in removing mounts from weak bone tissue
- 30° neck angle for maximum comfort and ease of use

Tissue Punch



| L1/L2 | D1/D2 |
|-------|-------------------------|
| | Ø3.8(Inner)/Ø4.5(Outer) |
| 27/13 | STP 3845 |

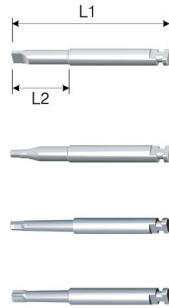
| L1/L2 | D1/D2 |
|-------|-------------------------|
| | Ø4.5(Inner)/Ø5.2(Outer) |
| 27/13 | STP 4552 |

| L1/L2 | D1/D2 |
|-------|-------------------------|
| | Ø5.3(Inner)/Ø5.8(Outer) |
| 27/13 | STP 5358 |

Surgical Instruments

SM Implant System(SM-Submerged)

Machine Screw Driver



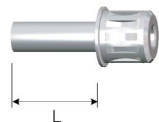
| Type | L1/L2 | Code |
|----------|-------|---------|
| 0.5 Slot | 22/8 | MD 0522 |
| | 30/16 | MD 0530 |
| 0.9 Hex | 22/8 | MD 0922 |
| | 30/16 | MD 0930 |
| 1.2 Hex | 22/8 | MD 1222 |
| | 30/16 | MD 1230 |
| 1.7 Torx | 22/8 | MD 1722 |
| | 30/16 | MD 1730 |

Ratchet Screw Driver



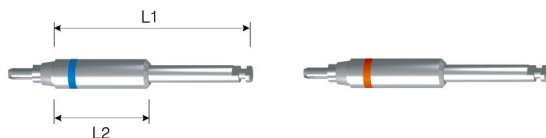
| Type | L | Code |
|----------|----|---------|
| 0.5 Slot | 10 | HD 0510 |
| | 15 | HD 0515 |
| 0.9 Hex | 10 | HD 0910 |
| | 15 | HD 0915 |
| | 20 | HD 0920 |
| 1.2 Hex | 5 | HD 1205 |
| | 10 | HD 1210 |
| | 15 | HD 1215 |
| 1.7 Torx | 20 | HD 1220 |
| | 10 | HD 1710 |
| | 15 | HD 1715 |
| | 20 | HD 1720 |

Ball Abutment Driver



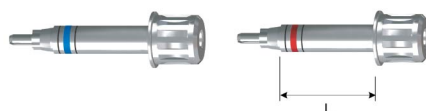
| L | Code |
|----|---------|
| 6 | HD 2406 |
| 12 | HD 2412 |

Fixture Driver for Contra Angle



| L1/L2 \ D | Ø3.8 | Ø4.5 / Ø5.3 |
|-----------|-----------|-------------|
| 21/6.9 | HGCS 3121 | HGC 4824 |
| 27/12.9 | HGCS 3127 | HGC 4830 |
| 32/17.9 | HGCS 3132 | HGC 4835 |

Fixture Driver for Ratchet Wrench

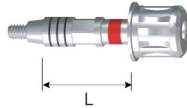


| L \ D | Ø3.8 | Ø4.5 / Ø5.3 |
|-------|-----------|-------------|
| 6 | HGWS 3113 | HGW 4813 |
| 14 | HGWS 3121 | HGW 4821 |
| 20 | HGWS 3127 | HGW 4827 |

Surgical Instruments

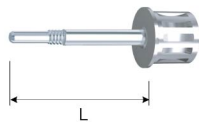
SM Implant System(SM-Submerged)

Fixture Mount Driver



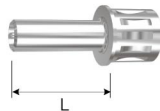
| L \ Type | M1.8 | M2.0 |
|----------|-----------|-----------|
| 18 | HMDI 1818 | HMDI 2018 |
| 23 | HMDI 1823 | HMDI 2023 |

Abutment Removing Driver



| L \ Type | M1.8 | M2.0 |
|----------|-----------|-----------|
| 15 | HARD 1815 | HARD 2015 |
| 20 | HARD 1820 | HARD 2020 |

Solid Abutment Driver



| L \ D | Ø3.9 | Ø4.8 | Ø5.8 |
|-------|----------|----------|----------|
| 6 | HDS 3906 | HDS 4806 | HDS 5806 |
| 12 | HDS 3912 | HDS 4812 | HDS 5812 |

Reamer Set



Reamer Cutter



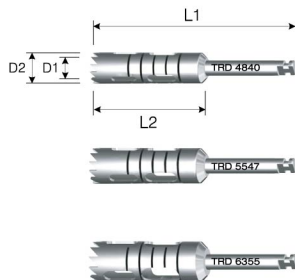
| Code | SRC 39 | SRC 48 | SRC 58 |
|------|--------|--------|--------|
| | | | |

Reamer Pin



| D | Ø3.5 | Ø4 | Ø5 |
|------|--------|--------|--------|
| Code | SRP 39 | SRP 48 | SRP 58 |

Trepine Drill



| L1/L2 \ D1/D2 | Ø4.0(Inner)/Ø4.8(Outer) |
|---------------|-------------------------|
| 32/18 | TRD 4840 |

| L1/L2 \ D1/D2 | Ø4.7(Inner)/Ø5.5(Outer) |
|---------------|-------------------------|
| 32/18 | TRD 5547 |

| L1/L2 \ D1/D2 | Ø5.5(Inner)/Ø6.3(Outer) |
|---------------|-------------------------|
| 32/18 | TRD 6355 |

Ratchet Wrench

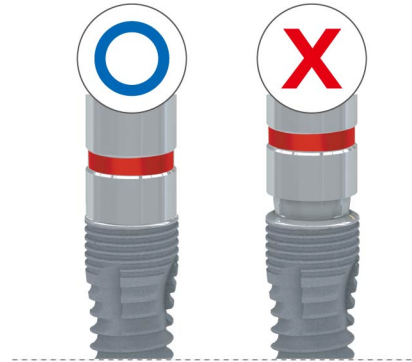


| Code | DRW 050 |
|------|---------|
| | |

Site Preparation

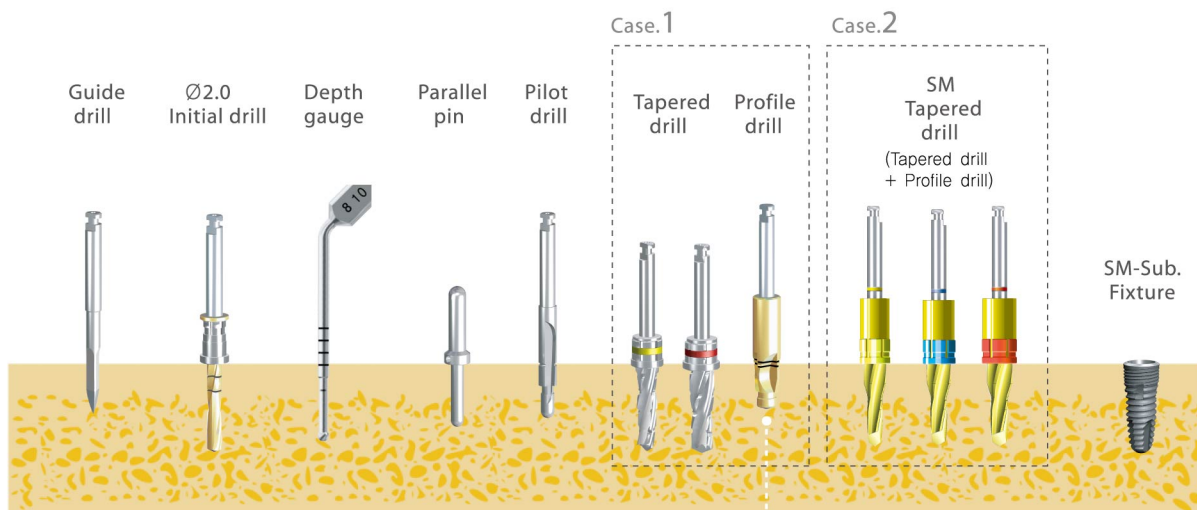
Fixture Driver

Instructions for proper fixture driver use
Remove driver from fixture only after adhesion



Site Preparation

SM-Submerged Fixture / Ø4.5mm(Length: 10mm)

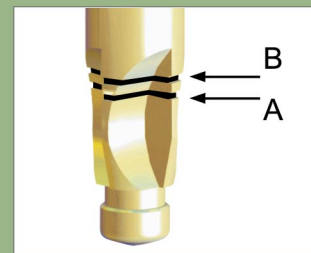


Profile drill

Used to shape top of fixture (Straight & Taper shape)

Insertion depth: Drilling depth is determined by bone tissue
Drills up to B depth in case of D1/D2 bone.
Tap drill is recommended in cases where the D1 bone tissue is resistant.
Drills up to A depth in case of D2/D3 bone.
Profile drill is not recommended in cases where the D4 bone tissue is weak.

This drill is designed to prevent excess torque.
Implant depth is adjustable.



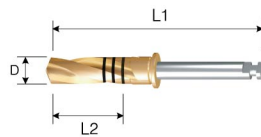
SM Extra-Wide Surgical Kit

SM Implant System(Extra-Wide)



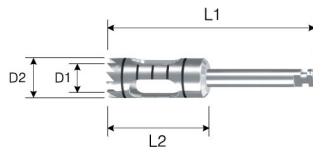
SM System

Straight Drill



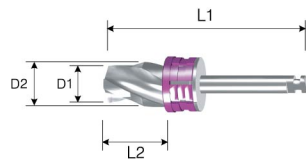
| L1/L2 | D | |
|-------|------|-----------|
| 29/10 | Ø4.8 | SDS 4810R |

Trepine Drill



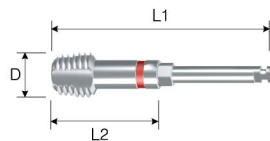
| L1/L2 | D1/D2 | Inner Diameter/Outer Diameter | | |
|-------|-------|-------------------------------|-----------|-----------|
| 27/13 | | Ø3.9/Ø4.7 | Ø4.4/Ø5.2 | Ø4.9/Ø5.7 |
| | | TRD 4739 | TRD 5244 | TRD 5749 |

Final Drill



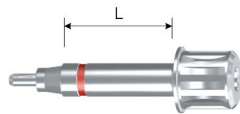
| L1/L2 | D1/D2 | Ø4.5/Ø5.4 | Ø5/Ø5.9 | Ø5.5/Ø6.4 |
|-------|-------|-----------|----------|-----------|
| 25/6 | | RTD 5406 | RTD 5906 | RTD 6406 |
| 27/8 | | RTD 5408 | RTD 5908 | RTD 6408 |
| 29/10 | | RTD 5410 | RTD 5910 | RTD 6410 |

Tap Drill



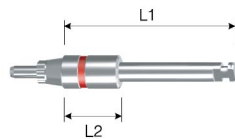
| L1/L2 | D | 5.9 | 6.4 | 6.9 |
|---------|---|----------|----------|----------|
| 31.1/15 | | TPR 5915 | TPR 6415 | TPR 6915 |

Fixture Driver
for Ratchet Wrench



| L | | |
|----|--|----------|
| 6 | | HGW 4813 |
| 14 | | HGW 4821 |
| 20 | | HGW 4827 |

Fixture Driver
for Contra Angle



| L1/L2 | | |
|---------|--|----------|
| 21/6.9 | | HGC 4824 |
| 27/12.9 | | HGC 4830 |
| 32/17.9 | | HGC 4835 |

Site Preparation

SM-Extra-Wide Fixture / Ø6.4mm(Length: 8mm)

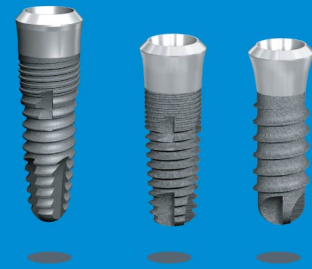




Int.

Internal Implant System

SM-Internal / IFI / PSI

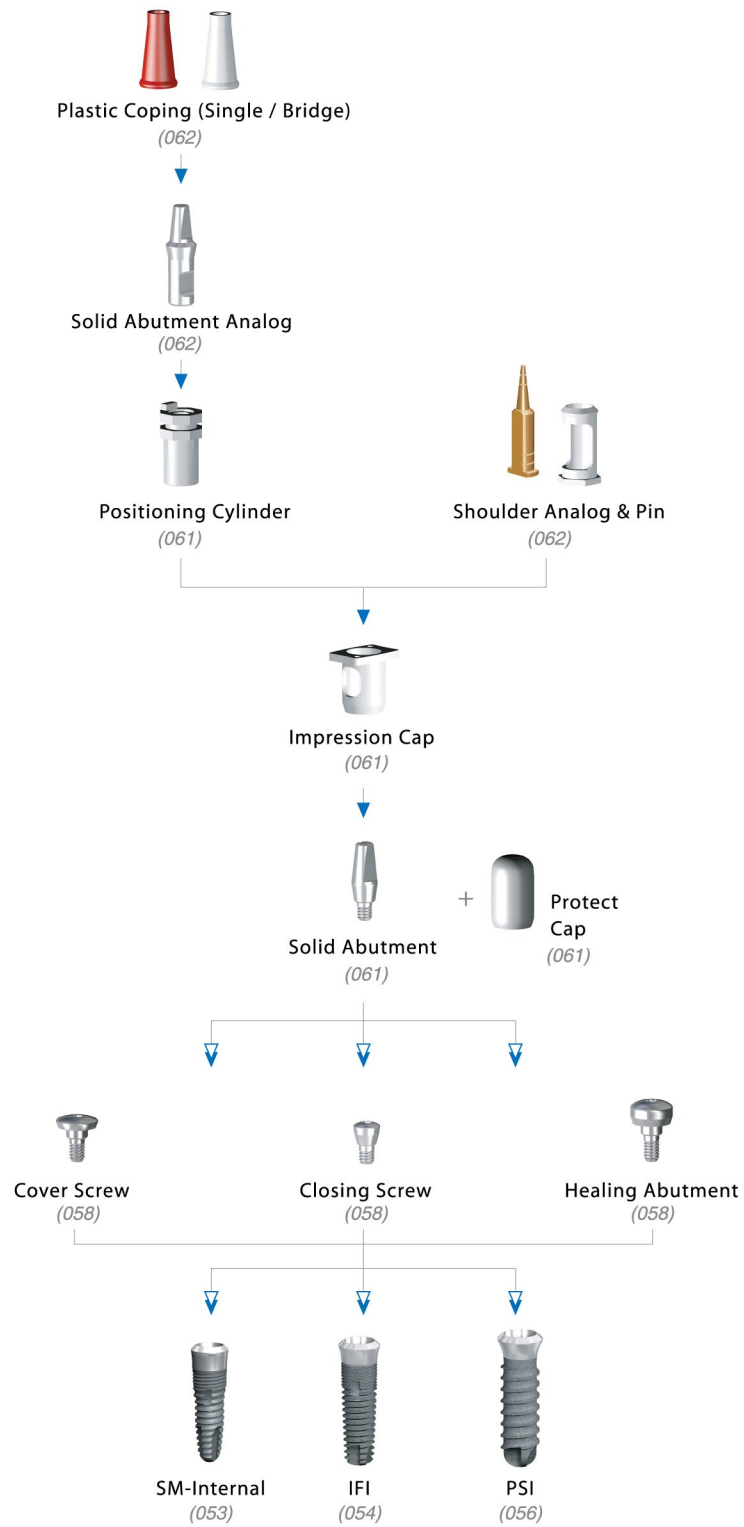


| | |
|--------------------------------------|-----|
| System Flowchart | 048 |
| Implants/Healing Abutments | 053 |
| (SM-Internal, IFI, PSI) | |
| Restorative Products | 061 |
| Surgical Kit | |
| Master Surgical Kit | 072 |
| SM / SM Int.Surgical Kit | 073 |
| Site Preparation (SM-Internal) | 079 |
| IFI/SM Surgical Kit | 080 |
| PSI Surgical Kit | 081 |
| Site Preparation (IFI) | 087 |
| Site Preparation (PSI) | 087 |

DIO IMPLANT SYSTEM

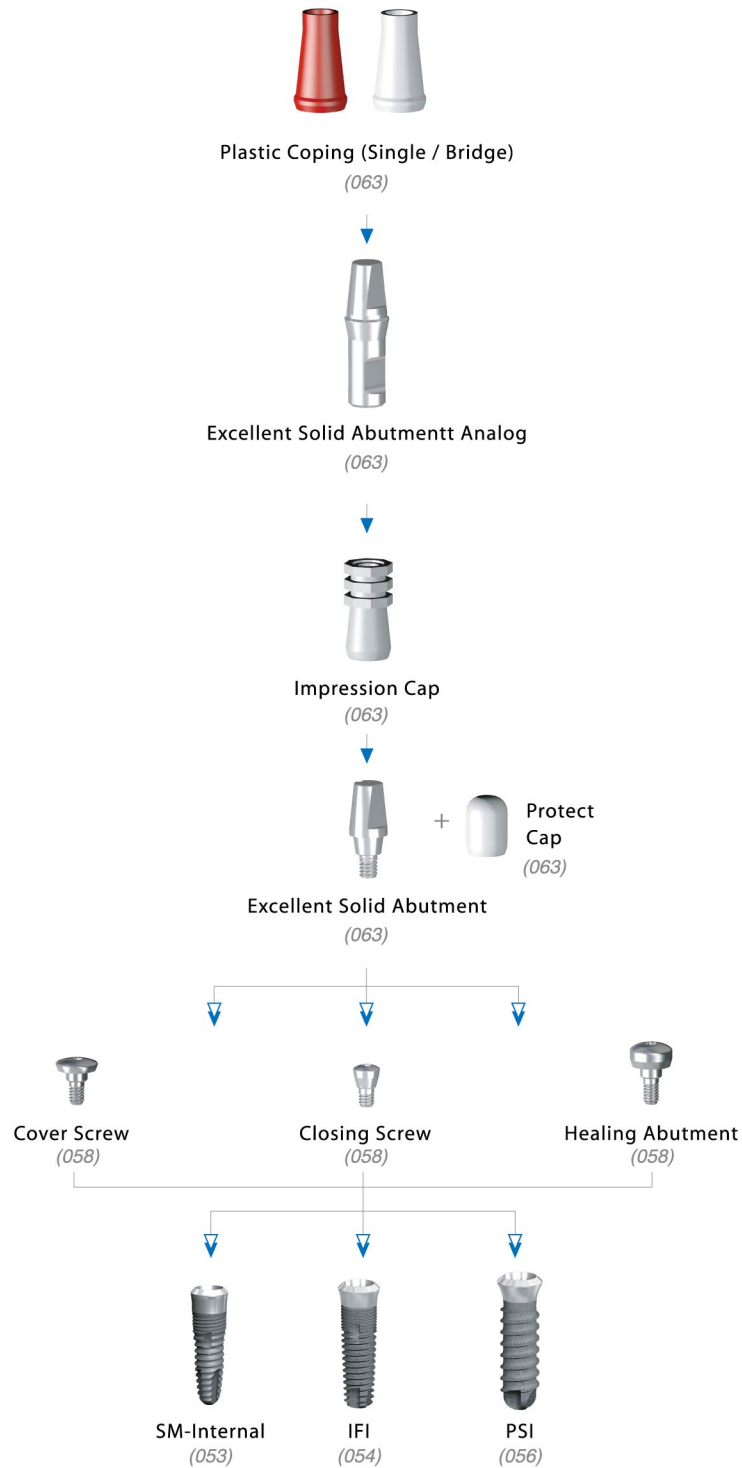
www.dioimplant.com

Internal System Flowchart
Cement-Retained Restorations - Solid Abutment

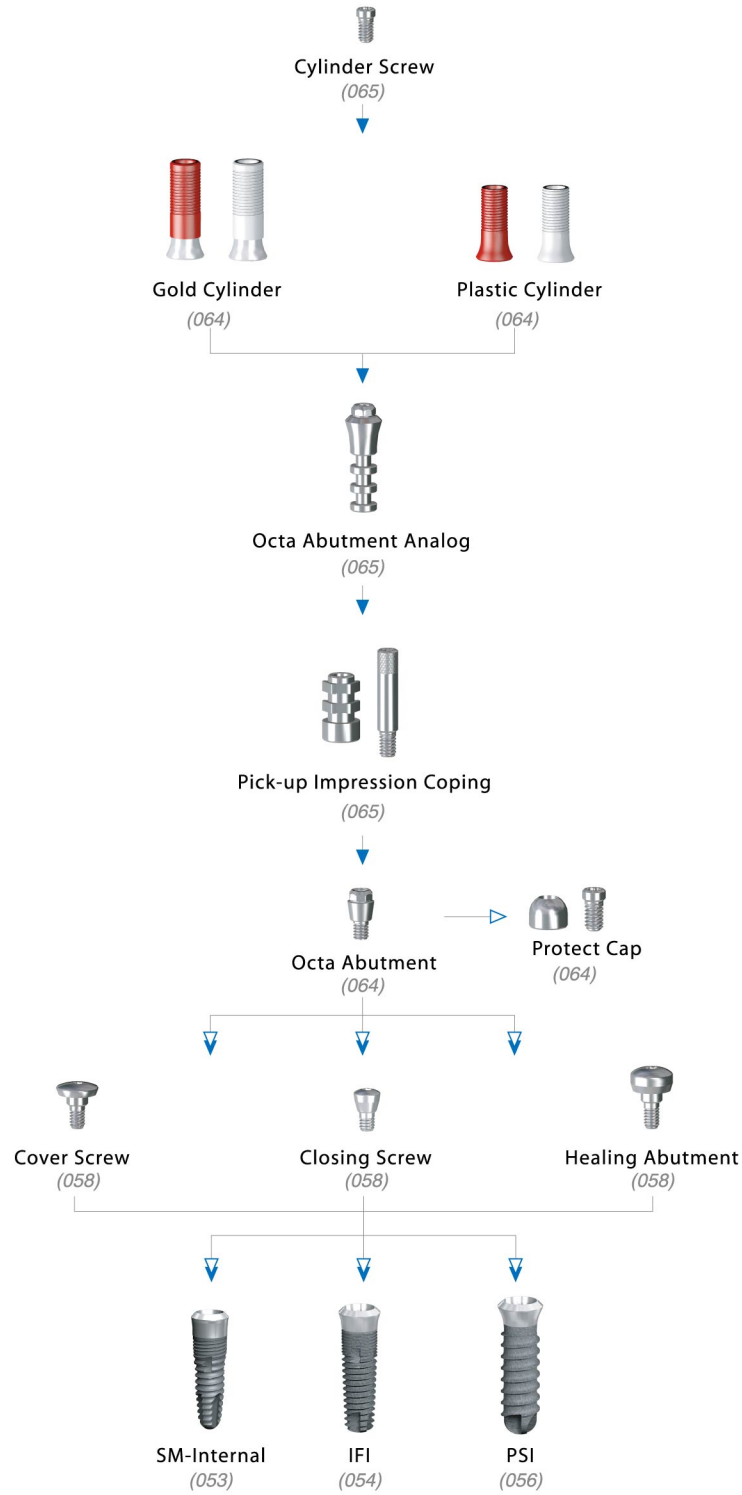


Internal System Flowchart

Cement-Retained Restorations - Excellent Solid Abutment

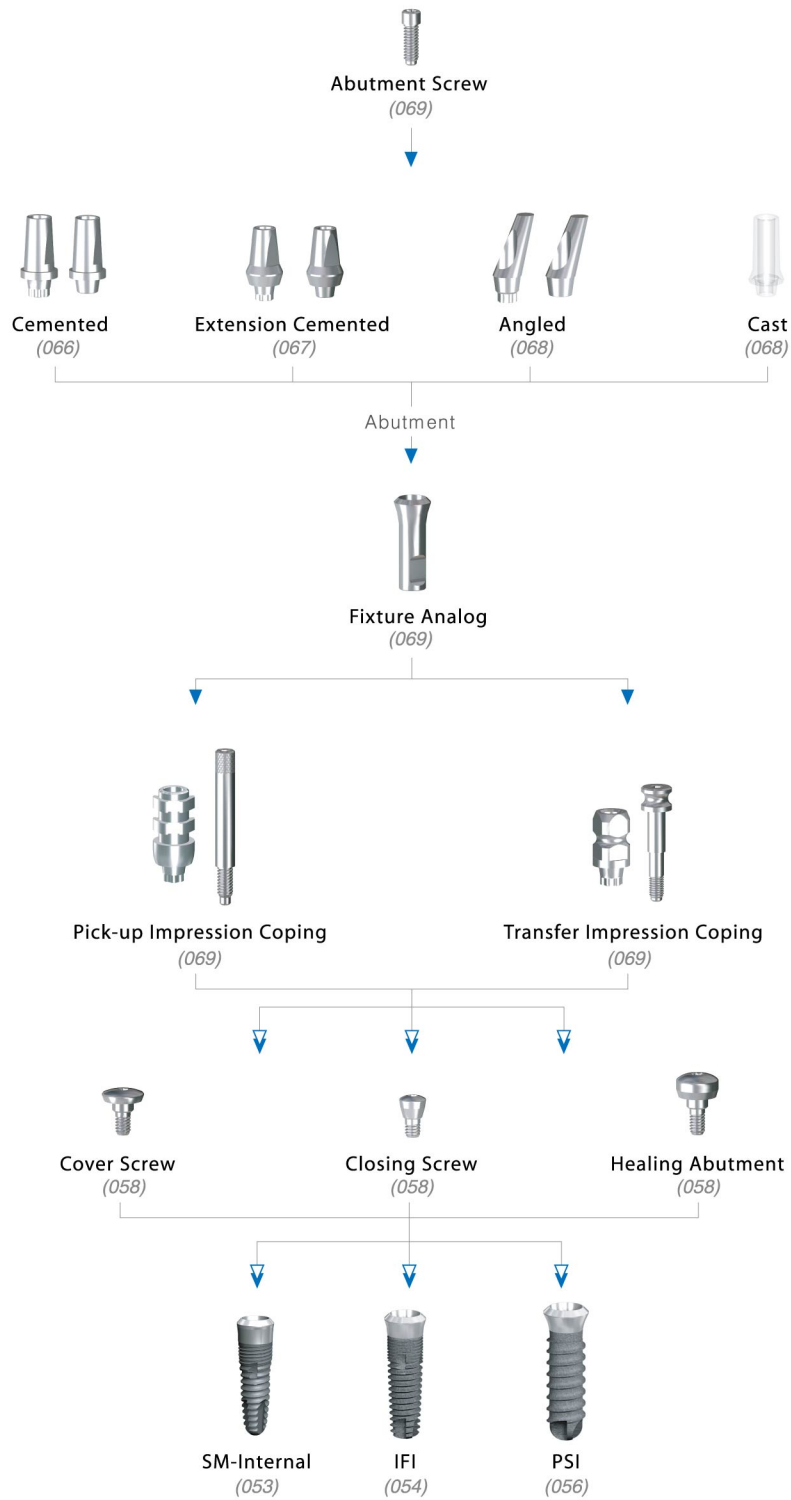


Internal System Flowchart
Screw-Retained Restorations - Octa Abutment



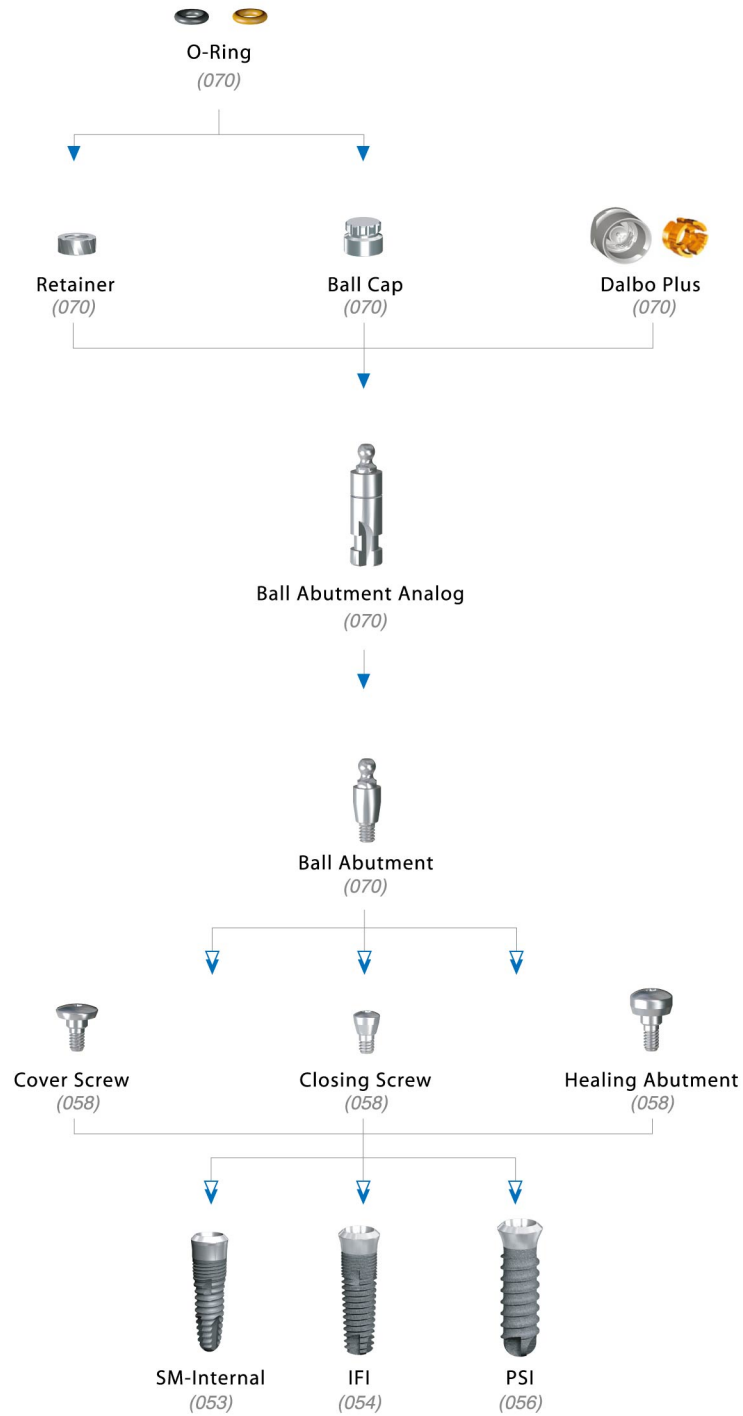
Internal System Flowchart

Cement-Retained Restorations - Cemented Abutment
Cement-Retained Restorations - Extension Cemented Abutment
Cement-Retained Restorations - Angled Abutment



Internal System Flowchart

Overdenture-Retained Restorations - Ball Abutment



› Internal Torx Connection

Superior to Hex internal connection
More fixture and driver contact
No distortion with high torque

› Morse Taper

Convenient abutment insertion
Wide abutment contact area
High resistance to unscrewing

› Double Thread

Secure initial seating prevents cortical bone loss

› Root Form Design

Root form design enables excellent stability
Reduces possibility of touching adjacent teeth root during implant insertion

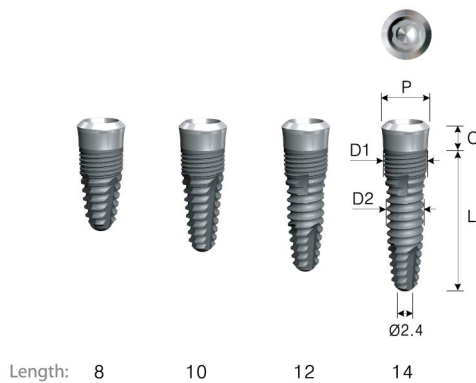
› Self Tapping

Advanced thread and apex design enable easy self tapping and excellent initial stability in extraction sockets

› Surface

Biocompatible RBM

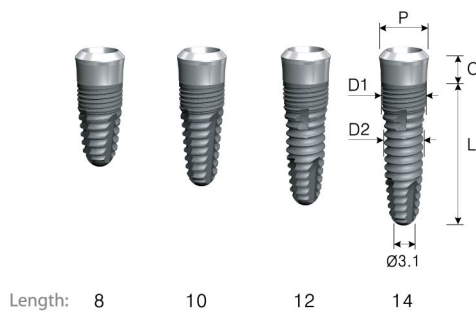
Narrow Platform Ø4.8



| D | D1:Ø3.8 D2:Ø3.3 |
|-------|-----------------|
| L \ C | 2 |
| 8 | SIFN 3808 |
| 10 | SIFN 3810 |
| 12 | SIFN 3812 |
| 14 | SIFN 3814 |

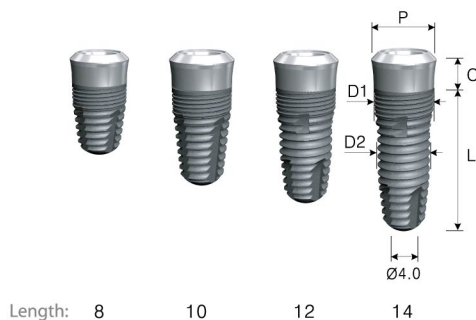
*Abutment and components are compatible with Regular size implant

Regular Platform Ø4.8



| D | D1:Ø4.5 D2:Ø4.0 |
|-------|-----------------|
| L \ C | 2 |
| 8 | SIFR 4508 |
| 10 | SIFR 4510 |
| 12 | SIFR 4512 |
| 14 | SIFR 4514 |

Wide neck Platform Ø6.5



| D | D1:Ø5.3 D2:Ø4.8 |
|-------|-----------------|
| L \ C | 2 |
| 8 | SIFW 5308N |
| 10 | SIFW 5310N |
| 12 | SIFW 5312N |
| 14 | SIFW 5314N |

Internal IFI Fixture

N R

Internal Torx Connection

Superior to Hex internal connection
More fixture and driver contact
No distortion with high torque

Morse Taper

Convenient abutment insertion
Wide abutment contact area
High resistance to unscrewing

Double Thread

Secure initial seating prevents cortical bone loss

Root Form Design

Root form design enables excellent stability
Reduces possibility of touching adjacent teeth
root during implant insertion

Self Tapping

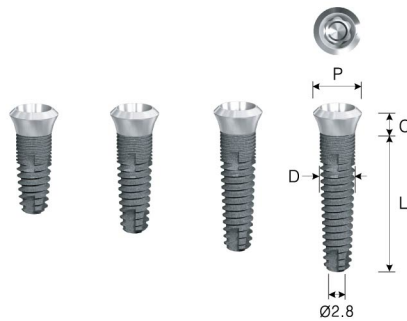
Advanced thread and apex design enable easy
self tapping and excellent initial stability
in extraction sockets

Surface

Biocompatible RBM

Narrow

Platform Ø4.8

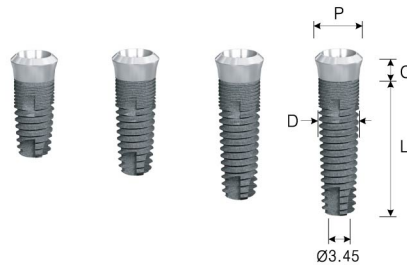


Length: 8 10 12 14

| D | Ø3.5 |
|-------|------------|
| L \ C | 1.8 |
| 8 | IFI 3508PM |
| 10 | IFI 3510PM |
| 12 | IFI 3512PM |
| 14 | IFI 3514PM |

Regular

Platform Ø4.8



Length: 8 10 12 14

| D | Ø4.1 |
|-------|------------|
| L \ C | 1.8 |
| 8 | IFI 4008PM |
| 10 | IFI 4010PM |
| 12 | IFI 4012PM |
| 14 | IFI 4014PM |



Length: 8 10 12 14

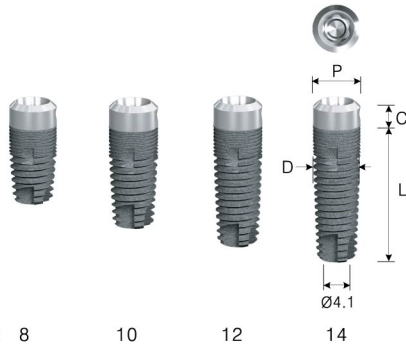
| D | Ø4.1 |
|-------|-----------|
| L \ C | 2.8 |
| 8 | IFI 4008M |
| 10 | IFI 4010M |
| 12 | IFI 4012M |
| 14 | IFI 4014M |

Internal IFI Fixture



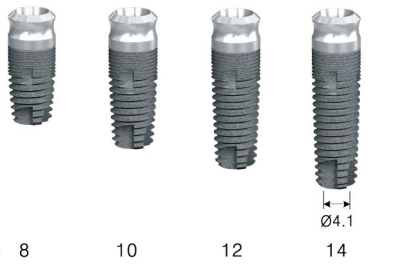
Wide

Platform $\text{\O}4.8$



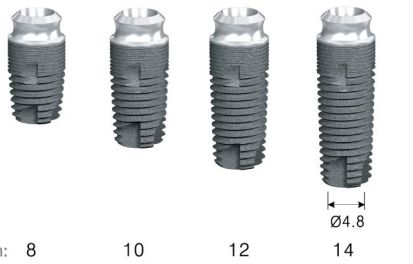
Length: 8 10 12 14

| D | $\text{\O}4.8$ |
|-------|----------------|
| L \ C | 1.8 |
| 8 | IFI 4808PM |
| 10 | IFI 4810PM |
| 12 | IFI 4812PM |
| 14 | IFI 4814PM |



Length: 8 10 12 14

| D | $\text{\O}4.8$ |
|-------|----------------|
| L \ C | 2.8 |
| 8 | IFI 4808M |
| 10 | IFI 4810M |
| 12 | IFI 4812M |
| 14 | IFI 4814M |

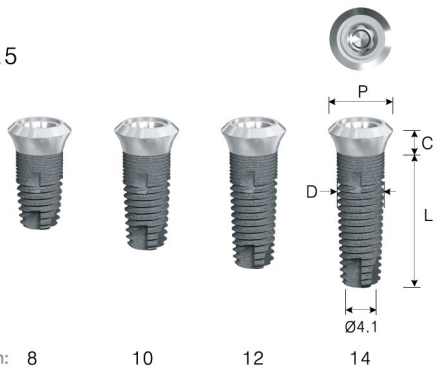


Length: 8 10 12 14

| D | $\text{\O}5.5$ |
|-------|----------------|
| L \ C | 2 |
| 8 | IFI 5508PM |
| 10 | IFI 5510PM |
| 12 | IFI 5512PM |
| 14 | IFI 5514PM |

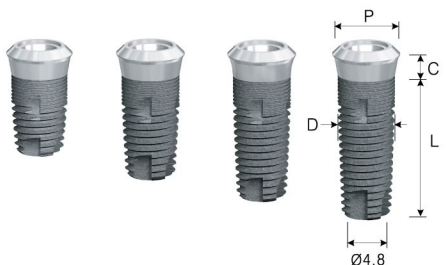
Wide Neck

Platform $\text{\O}6.5$



Length: 8 10 12 14

| D | $\text{\O}4.8$ |
|-------|----------------|
| L \ C | 2 |
| 8 | IFI 6508PM |
| 10 | IFI 6510PM |
| 12 | IFI 6512PM |
| 14 | IFI 6514PM |



Length: 8 10 12 14

| D | $\text{\O}5.5$ |
|-------|----------------|
| L \ C | 2 |
| 8 | IFI 6508PMR |
| 10 | IFI 6510PMR |
| 12 | IFI 6512PMR |
| 14 | IFI 6514PMR |

Internal System

Internal PSI Fixture



Internal Torx Connection

- Superior to Hex internal connection
- More fixture and driver contact
- No distortion with high torque

Surface

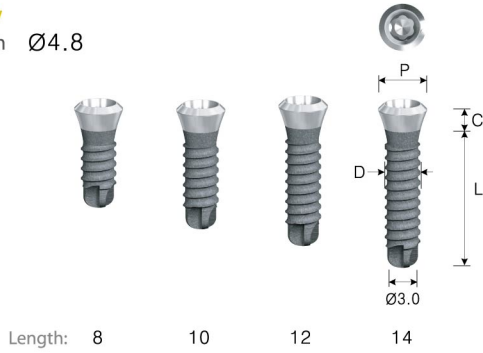
Biocompatible RBM

Morse Taper

- Convenient abutment insertion
- Wide abutment contact area
- High resistance to unscrewing

Narrow

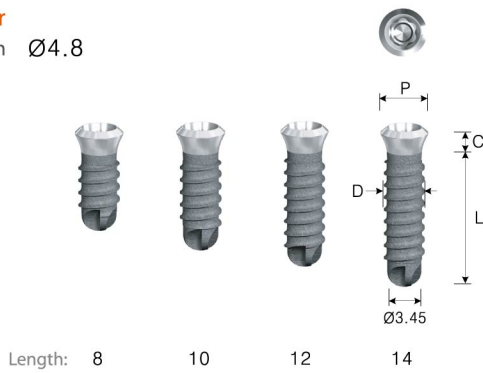
Platform Ø4.8



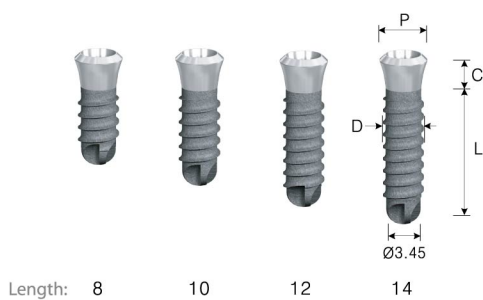
| D | Ø3.5 |
|-------|-----------|
| L \ C | 1.8 |
| 8 | PSI 3508P |
| 10 | PSI 3510P |
| 12 | PSI 3512P |
| 14 | PSI 3514P |

Regular

Platform Ø4.8



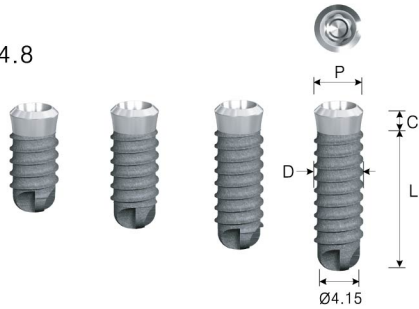
| D | Ø4.1 |
|-------|-----------|
| L \ C | 1.8 |
| 8 | PSI 4008P |
| 10 | PSI 4010P |
| 12 | PSI 4012P |
| 14 | PSI 4014P |



| D | Ø4.1 |
|-------|----------|
| L \ C | 2.8 |
| 8 | PSI 4008 |
| 10 | PSI 4010 |
| 12 | PSI 4012 |
| 14 | PSI 4014 |

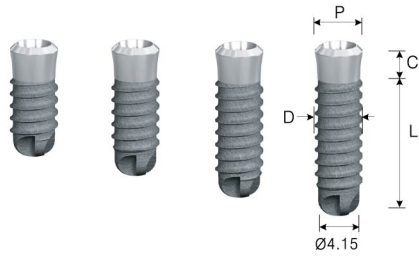
Wide

Platform Ø4.8



Length: 8 10 12 14

| D | Ø4.8 |
|-------|-----------|
| L \ C | 1.8 |
| 8 | PSI 4808P |
| 10 | PSI 4810P |
| 12 | PSI 4812P |
| 14 | PSI 4814P |

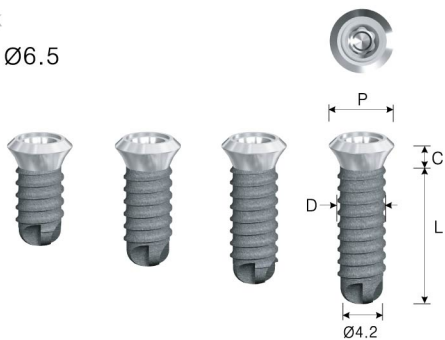


Length: 8 10 12 14

| D | Ø4.8 |
|-------|----------|
| L \ C | 2.8 |
| 8 | PSI 4808 |
| 10 | PSI 4810 |
| 12 | PSI 4812 |
| 14 | PSI 4814 |

Wide Neck

Platform Ø6.5



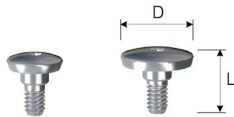
Length: 8 10 12 14

| D | Ø4.8 |
|-------|-----------|
| L \ C | 2 |
| 8 | PSI 6508P |
| 10 | PSI 6510P |
| 12 | PSI 6512P |
| 14 | PSI 6514P |

Cover Screw / Closing Screw / Healing Abutment



Cover Screw



| P \ D | Ø5.5 | Ø5.5 | Ø5.5 | Ø7.0 |
|-------|------------|------|------|------------|
| Ø4.8 | AHI 48602H | | | - |
| Ø6.5 | - | | | AHI 65702H |

- Uses 1,2 hex driver
- Package Contents: Cover Screw
- Tightening Torque: 5-8 Ncm

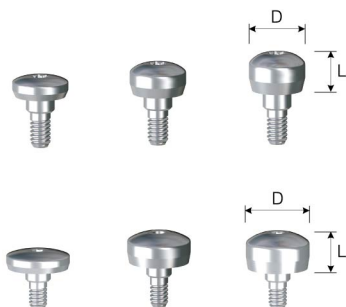
Closing Screw



| D | Code |
|------|------------|
| Ø3.5 | CHI 4800NH |

- Used in instances of restrictive and/or insufficient spaces
- Uses 1,2 hex driver
- Package Contents: Closing Screw
- Tightening Torque: 5-8 Ncm

Healing Abutment



| P | L \ D | Ø5.5 | Ø5.5 | Ø5.5 | Ø7.0 |
|------|-------|------------|------|------|------------|
| Ø4.8 | 2 | AHI 48602H | | | - |
| | 3 | AHI 48603H | | | - |
| | 4 | AHI 48604H | | | - |
| Ø6.5 | 2 | - | | | AHI 65702H |
| | 3 | - | | | AHI 65703H |
| | 4 | - | | | AHI 65704H |

- Uses 1,2 hex driver
- Package Contents: Healing Abutment
- Tightening Torque: 5-8 Ncm

Abutments for Internal Implant System



Octa
(064)



Cylinder
(064)



Cast
(068)



Fixture



Solid
(061)



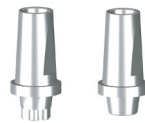
Ball
(070)



Excellent Solid
(063)



Angled
(068)



Cemented
(066)



**Extension
Cemented**
(067)

Abutment Selection Guide



Narrow



IFI 35**



PSI 35**

| | |
|---|---|
| Regular | Wide |
|  |  |
| IFI 40** | IFI 48** |
|  |  |
| PSI 40** | PSI 48** |
| <hr/> | |
| Narrow | Regular |
|  |  |
| SIFN 38** | SIFR 45** |

Compatible

Compatible

Compatible



AMI 350**



AEI 350**



AAI 350**N*



AMI 4835*



AMI 483*EX



CAI 4812N



ACI 48302



ABI 4835*



AMI 480**



AEI 480**



AAI 350***

※Wide neck excluded

Solid Abutment

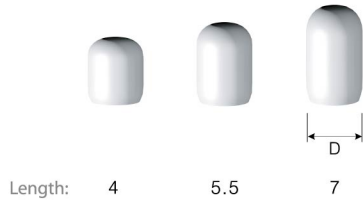


Length: 4 5.5 7

| Fixture Platform | Ø4.8 | | | Ø6.5 |
|------------------|-----------|------|------|-----------|
| L \ D | Ø3.5 | Ø3.5 | Ø3.5 | Ø4.3 |
| 4 | AMI 48354 | | | AMI 65434 |
| 5.5 | AMI 48355 | | | AMI 65435 |
| 7 | AMI 48357 | | | - |

- Used for standard cement type prosthetic fabrication
- Single body abutment and screw construction
- Secure 8° Morse tapered connection construction
- Prosthetic rotation prevention
- Uses Ø3,5 solid abutment driver
- Uses Ø4,3 solid abutment driver
- Package Contents: Abutment + Protect Cap
- Tightening Torque: 35 Ncm

Protect Cap



Length: 4 5.5 7

| Fixture Platform | Ø4.8 | | | Ø6.5 |
|------------------|-----------|------|------|-----------|
| L \ D | Ø5.5 | Ø5.5 | Ø5.5 | Ø7.5 |
| 4 | HMI 48554 | | | HMI 65704 |
| 5.5 | HMI 48555 | | | HMI 65705 |
| 7 | HMI 48557 | | | - |

- Protects the abutment and keeps foreign particles to a minimum
- Keeps the place of future prosthetic
- Convenient locking mechanism

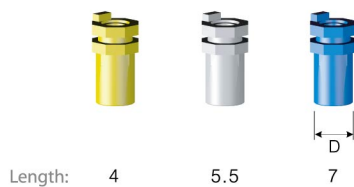
Impression Cap



| Fixture Platform | Ø4.8 | | | Ø6.5 |
|------------------|-----------|------|------|-----------|
| L \ D | Ø5.7 | Ø5.7 | Ø5.7 | Ø7.2 |
| 8 | IPI 48001 | | | IPI 65001 |

- Used for making impression with solid abutments
- Used in conjunction with solid positioning cylinder
- Convenient locking mechanism
- Package Contents: Impression Cap

Positioning Cylinder

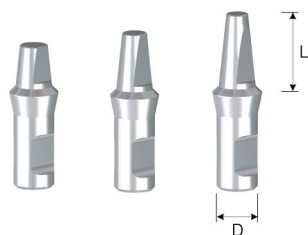


Length: 4 5.5 7

| Fixture Platform | Ø4.8 | | | Ø6.5 |
|------------------|------------|------|------|------------|
| L \ D | Ø4.5 | Ø4.5 | Ø4.5 | Ø6.0 |
| 4 | IPI 48002Y | | | IPI 65002Y |
| 5.5 | IPI 48002G | | | IPI 65002G |
| 7 | IPI 48002B | | | - |

- Used for making impression with solid abutments
- Used in conjunction with solid impression cap
- Simple color coding according to abutment diameter
 Length(4,0: Yellow, 5,5: Grey, 7,0: Blue)
- Package Contents: Positioning Cylinder

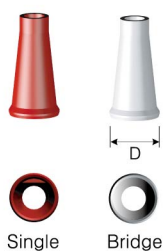
Solid Abutment Analog



| Fixture Platform | | Ø4.8 | | | Ø6.5 |
|------------------|---|------------|------|------|------------|
| L | D | Ø4.8 | Ø4.8 | Ø4.8 | Ø6.5 |
| 4 | | RMI 48004N | | | RMI 65004N |
| 5.5 | | RMI 48005N | | | RMI65005N |
| 7 | | RMI 48007N | | | - |

-Provides anchor point for fabricating implant prosthetics on working model.
 -Package Contents: Analog

Plastic Coping



| Fixture Platform | | Ø4.8 | | | Ø6.5 | |
|------------------|--------|------|------------|------|------|------------|
| L | Type | D | Ø5.0 | Ø5.0 | Ø5.0 | Ø6.7 |
| 10 | Single | | IPI 48004 | | | IPI 65004 |
| | Bridge | | IPI 48004N | | | IPI 65004N |

-Provides a framework for prosthetic for use with Solid Lab Analog
 -Simple color coding according to type of prosthetic
 Single: Red Bridge: White
 -Determine margin using Reamer after casting prosthetic
 -Package Contents: Plastic Coping

Shoulder Analog & Pin



| Fixture Platform | | Ø4.8 | | |
|------------------|---|-----------|------|------|
| L | D | Ø4.8 | Ø4.8 | Ø4.8 |
| 5.5 | | RMI 48001 | | |

-Provides impression for model work in event of missing solid abutment
 -Provides a platform for fixture fabrication
 -Used in solid shoulder analog construction
 -Package Contents: Shoulder Analog + Pin

Excellent Solid Abutment



| L | Fixture Platform | Ø4.8 | Ø4.8 | Ø4.8 |
|-----|------------------|------|-------------|------|
| 4 | | | AMI 48434EX | |
| 5.5 | | | AMI 48435EX | |
| 7 | | | AMI 48437EX | |

Protect Cap



| L | Fixture Platform | Ø4.8 | Ø4.8 | Ø4.8 |
|-----|------------------|------|-------------|------|
| 4 | | | HMI 48554EX | |
| 5.5 | | | HMI 48555EX | |
| 7 | | | HMI 48557EX | |

Impression Cap



| L | Fixture Platform | Ø4.8 | Ø4.8 | Ø4.8 |
|----|------------------|------|--------------|------|
| 12 | | | IPI 48002YEX | |
| | | | IPI 48002GEX | |
| | | | IPI 48002BEX | |

Excellent Solid Abutment Analog



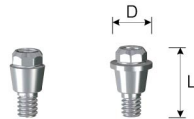
| L | Fixture Platform | Ø4.8 | Ø4.8 | Ø4.8 |
|-----|------------------|------|-------------|------|
| 4 | | | RMI 48004EX | |
| 5.5 | | | RMI 48005EX | |
| 7 | | | RMI 48007EX | |

Plastic Coping



| L | Fixture Platform | Ø4.8 | Ø4.8 | Ø4.8 |
|----|------------------|------|--------------|------|
| 12 | | | IPI 48004EX | |
| | | | IPI 48004NEX | |

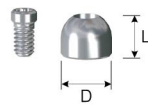
Octa Abutment



| Fixture Platform | | Ø4.8 | | | Ø6.5 |
|------------------|---|-----------|------|------|-----------|
| L | D | Ø3.5 | Ø3.5 | Ø3.5 | Ø4.3 |
| 5.5 | | ACI 48302 | | | - |
| 7 | | - | | | ACI 65302 |

- Used in case of crossed path or screw corrosion prevention
- Uses Octa Abutment Driver
- Package Contents: Octa Abutment
- Tightening Torque: 35 Ncm

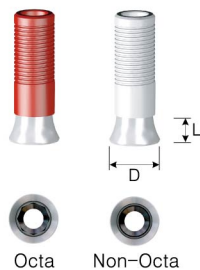
Protect Cap



| Fixture Platform | | Ø4.8 | | | Ø6.5 |
|------------------|---|-----------|------|------|-----------|
| L | D | Ø5.0 | Ø5.0 | Ø5.0 | Ø7.0 |
| 4 | | HCI 48504 | | | HCI 65704 |

- Protects the Octa abutment and keeps foreign particles to a minimum
- Uses 1,7 Torx Driver
- Package Contents: Protect Cap + Cylinder Screw
- Tightening Torque: 20 Ncm

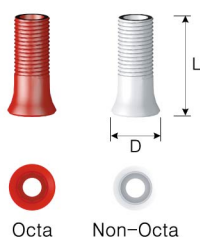
Gold Cylinder



| Fixture Platform | | Ø4.8 | | |
|------------------|----------|------------|------|------|
| L | Type \ D | Ø5.5 | Ø5.5 | Ø5.5 |
| 4 | Octa | AGI 48504 | | |
| | Non-Octa | AGI 48504N | | |

- Enables custom fabrication using the best quality dental gold alloy
- Cylinder Melting Point: 1400°C–1500°C (depending on casting machine)
- Uses 1,7 Torx Driver
- Package Contents: Gold Cylinder + Cylinder Screw
- Tightening Torque: 20 Ncm

Plastic Cylinder



| Fixture Platform | | Ø4.8 | | | Ø6.5 |
|------------------|----------|------------|------|------|------------|
| L | Type \ D | Ø5.0 | Ø5.0 | Ø5.0 | Ø7.0 |
| 10 | Octa | API 48514 | | | API 65714 |
| | Non-Octa | API 48514N | | | API 65714N |

- Enables custom fabrication using dental gold alloy
- Less precise than the gold cylinder
- Uses 1,7 Torx Driver
- Package Contents: Plastic Cylinder + Cylinder Screw
- Tightening Torque: 20 Ncm

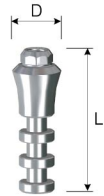
Pick-up Impression Coping



| Fixture Platform | | Ø4.8 | | | Ø6.5 |
|------------------|----------|-----------|------|------|------------|
| L | Type | Ø5.5 | Ø5.5 | Ø5.5 | Ø7.5 |
| | D | | | | |
| 10 | Octa | IPI48610 | | | IPI 65710 |
| | Non-Octa | IPI48610N | | | IPI 65710N |

- Used for pick-up impressions with custom trays
- Minimizes distortion
- Uses 1,2 Hex Driver
- Package Contents: Impression Coping + Guide Pin

Octa Abutment Analog



| Fixture Platform | | Ø4.8 | | | Ø6.5 |
|------------------|---|-----------|------|------|-----------|
| L | D | Ø5.0 | Ø5.0 | Ø5.0 | Ø6.5 |
| | | | | | |
| 14 | | RCI 48014 | | | RCI 65014 |

- Provides anchor point for fabricating Octa Abutment configuration
- Package Contents: Octa Abutment Analog

Cylinder Screw



| Code | STI 2004 |
|------|----------|
| | |

Cemented Abutment

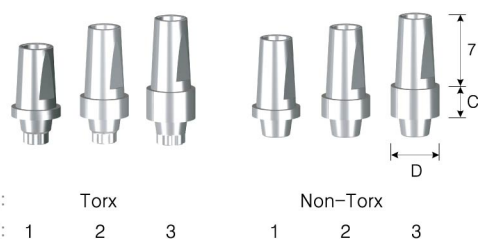
- Used in cases of abutment path adjustment and where customization is needed
- Used for standard cement type prosthetic fabrication
- Secure 8° Morse tapered connection construction
- Prosthetic rotation prevention
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm



Narrow

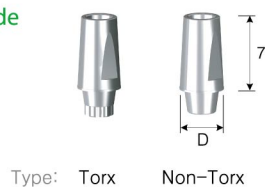


| D | Ø4.3 | |
|----------|-----------|------------|
| C \ Type | Torx | Non-Torx |
| 0 | AMI 35007 | AMI 48007N |

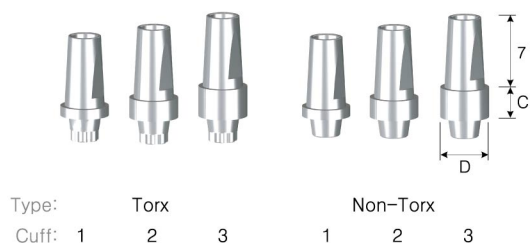


| D | Ø4.8 | |
|----------|-----------|------------|
| C \ Type | Torx | Non-Torx |
| 1 | AMI 35017 | AMI 48017N |
| 2 | AMI 35027 | AMI 48027N |
| 3 | AMI 35037 | AMI 48037N |

Regular / Wide



| D | Ø4.3 | Ø4.3 |
|----------|-----------|------------|
| C \ Type | Torx | Non-Torx |
| 0 | AMI 48007 | AMI 48007N |



| D | Ø4.8 | Ø4.8 |
|----------|-----------|------------|
| C \ Type | Torx | Non-Torx |
| 1 | AMI 48017 | AMI 48017N |
| 2 | AMI 48027 | AMI 48027N |
| 3 | AMI 48037 | AMI 48037N |

Wide Neck



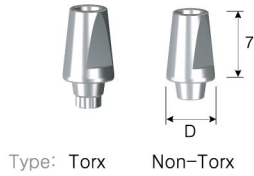
| D | Ø6.5 | |
|----------|-----------|------------|
| L \ Type | Torx | Non-Torx |
| 4 | AMI 65004 | AMI 65004N |
| 5 | AMI 65005 | AMI 65005N |

Extension Cemented Abutment

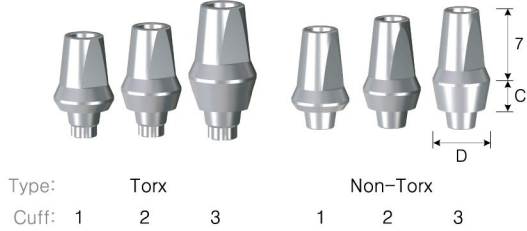
- Used in cases of abutment path adjustment and where customization is needed
- Used for standard cement type prosthetic fabrication
- Secure 8° Morse tapered connection construction
- Prosthetic rotation prevention
- Uses 1.7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm



Narrow

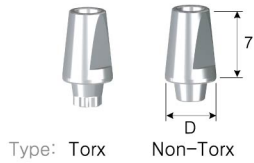


| D | Ø5.0 | |
|----------|-----------|------------|
| C \ Type | Torx | Non-Torx |
| 0 | AEI 35007 | AEI 48007N |

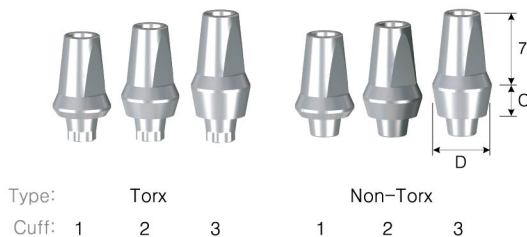


| D | Ø5.8 | |
|----------|-----------|------------|
| C \ Type | Torx | Non-Torx |
| 1 | AEI 35017 | AEI 48017N |
| 2 | AEI 35027 | AEI 48027N |
| 3 | AEI 35037 | AEI 48037N |

Regular / Wide



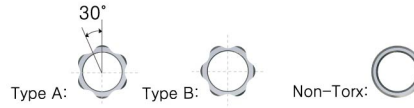
| D | Ø5.0 | Ø5.0 |
|----------|-----------|------------|
| C \ Type | Torx | Non-Torx |
| 0 | AEI 48007 | AEI 48007N |



| D | Ø5.8 | Ø5.8 |
|----------|-----------|------------|
| C \ Type | Torx | Non-Torx |
| 1 | AEI 48017 | AEI 48017N |
| 2 | AEI 48027 | AEI 48027N |
| 3 | AEI 48037 | AEI 48037N |

Angled Abutment

- Used in cases where prosthetic path adjustment is necessary
- Secure 8° Morse tapered connection construction
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm



Narrow



| D | Ø3.5 | |
|---------------|-------------|-------------|
| Type \ Angled | 15° | 25° |
| Torx A | AAI 35015NA | AAI 35025NA |
| Torx B | AAI 35015NB | AAI 35025NB |
| Non-Torx | AAI 35015 | AAI 35025 |

Regular / Wide



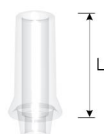
| D | Ø3.5 | Ø3.5 |
|---------------|------------|------------|
| Type \ Angled | 15° | 25° |
| Torx A | AAI 35015A | AAI 35025A |
| Torx B | AAI 35015B | AAI 35025B |
| Non-Torx | AAI 35015 | AAI 35025 |

Wide neck



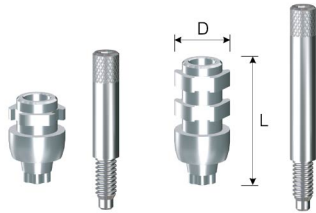
| D | Ø4.3 | |
|---------------|------------|------------|
| Type \ Angled | 15° | 20° |
| Torx A | AAI 43015A | AAI 43020A |
| Torx B | AAI 43015B | AAI 43020B |
| Non-Torx | AAI 43015 | AAI 43020 |

Cast Abutment



| Fixture Platform | Ø4.8 | |
|------------------|-----------|--|
| Type \ L | 10 | |
| Non-Torx | CAI 4812N | |

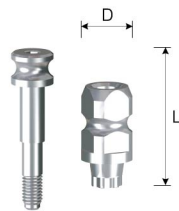
Pick-up Impression Coping



| L \ D | Ø5.5 | Ø5.5 | Ø5.5 | Ø6.5 |
|-------|-----------|-----------|------|-----------|
| 8 | IPI 35008 | IPI 48008 | | |
| 12 | IPI 35012 | IPI 48012 | | IPI 65012 |

- Used for pick-up impressions with custom trays
- Minimizes distortion
- Long and short compositions available
- Used 1,2 Hex Driver
- Package Contents: Impression Coping + Guide Pin

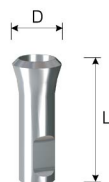
Transfer Impression Coping



| L \ D | Ø5.0 | Ø5.0 | Ø5.0 |
|-------|-----------|-----------|------|
| 10 | ITI 35010 | ITI 48010 | |

- Used for Transfer Type impressions with custom trays
- Popular three sided construction used in impressions
- Torx Type Two-Piece Construction
- Uses 1,2 hex driver
- Package Contents: Impression Coping + Guide Pin (Hex)

Fixture Analog



| L \ D | Ø4.8 | Ø4.8 | Ø4.8 | Ø6.5 |
|-------|-----------|-----------|-----------|------|
| 12 | RMI 35012 | RMI 48012 | RMI 65012 | |

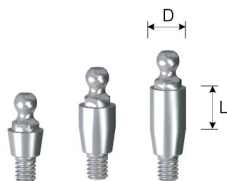
- Provides anchor point for fixtures
- Package Contents: Analog

Abutment Screw



| | |
|------|----------|
| Code | STN 2008 |
|------|----------|

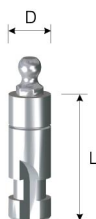
Ball Abutment



| Fixture Platform | | Ø4.8 | | |
|------------------|--|-----------|------|------|
| L \ D | | Ø3.5 | Ø3.5 | Ø3.5 |
| 0 | | ABI 48350 | | |
| 2 | | ABI 48352 | | |
| 4 | | ABI 48354 | | |

- Used in conjunction with ball type overdenture prosthetic fabrication
- O-Ring Types
- Black: Laboratory type
- Orange: Clinical type
- Simple O-Ring retention
- Up to a 20° compensation
- Uses ball abutment driver
- Package Contents: Abutment + O-Ring
- Tightening Torque: 35 Ncm

Ball Abutment Analog



| Fixture Platform | | Ø4.8 | | |
|------------------|--|-----------|------|------|
| L \ D | | Ø4.1 | Ø4.1 | Ø4.1 |
| 12 | | RBN 40412 | | |

- Provides anchor point for ball abutment on working model
- Package Contents: Analog

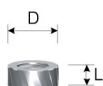
Dalbo Plus



| | Narrow | Regular | Wide |
|------|----------|---------|------|
| Code | DBPM 201 | | |

- Titanium housing with 2 stage construction
- Rated for up to 10,000 uses with minimum abrasion to the ball abutment and to the insert
- Simple and convenient retention
- Up to 20° in insertion angle flexibility
- Compatible with all DIO Implant systems

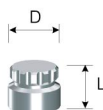
Retainer



| | Narrow | Regular | Wide |
|-------|---------|---------|------|
| L \ D | Ø5.0 | | |
| 2 | RT 0502 | | |

- Package Contents: Retainer + O-Ring

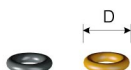
Ball Cap



| | Narrow | Regular | Wide |
|-------|---------|---------|------|
| L \ D | Ø5.0 | | |
| 4 | BC 5004 | | |

- Superior retention and removability
- Package Contents: Ball Cap + O-Ring

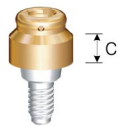
O-Ring



| | Narrow | Regular | Wide |
|----------|----------|---------|------|
| Type \ D | Ø4.5 | | |
| Black | OR 0450B | | |
| Orange | OR 0450O | | |

- Black: Laboratory use for high retention
- Orange: For clinical use (over 6 Ncm)
- Package Contents: O-Ring (1 piece)

Locator



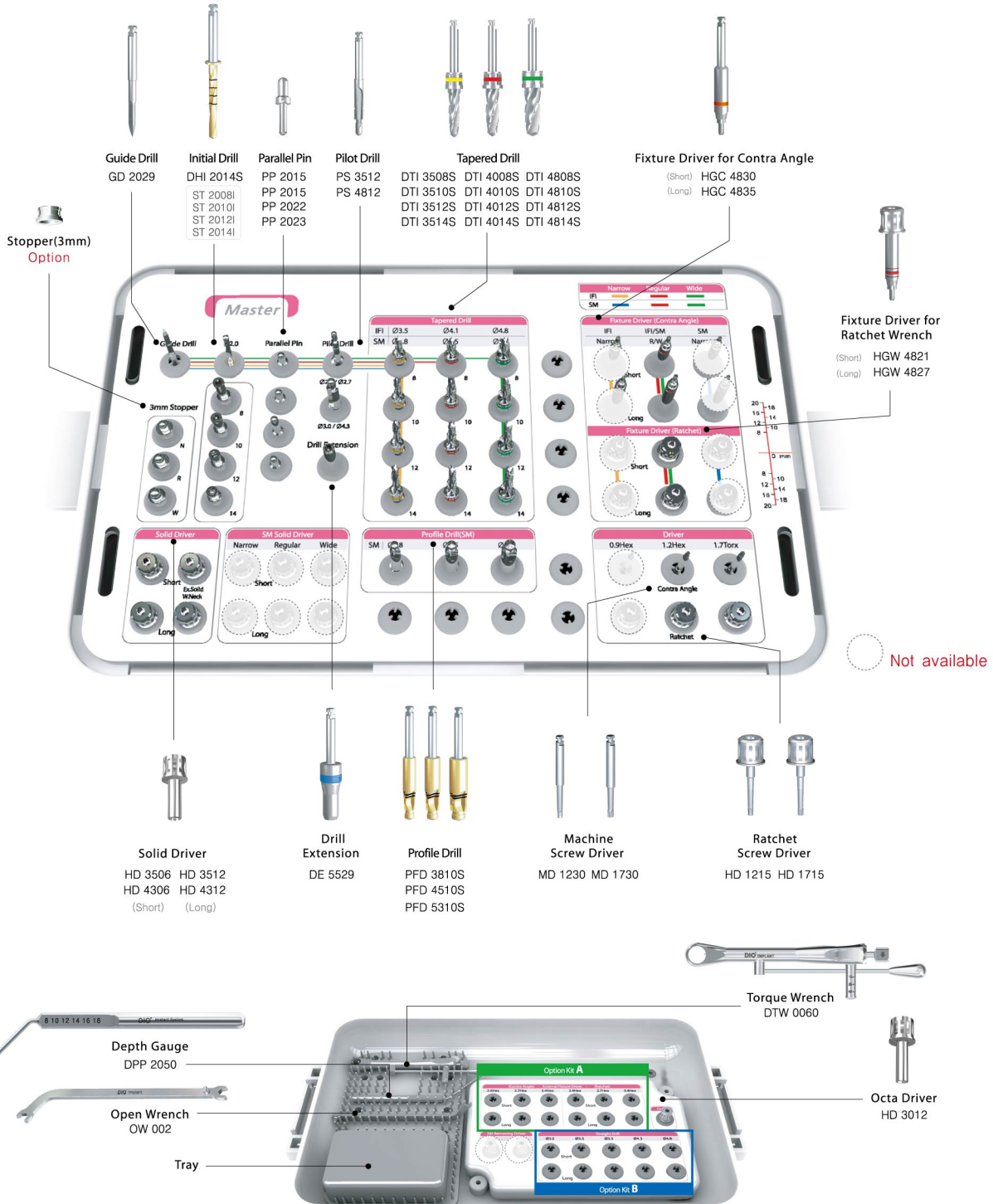
| Fixture Platform | Ø4.8 | | | | | |
|------------------|----------|----------|----------|----------|----------|----------|
| Cuff | 0.73 | 2 | 3 | 4 | 5 | 6 |
| Code | LOC 8950 | LOC 8951 | LOC 8952 | LOC 8953 | LOC 8954 | LOC 8955 |

- Angled male adjustable even under extreme abutment angle (up to 40°)
- Lowest perpendicular angle
- Simple and precise denture mounting
- Wide variety of males: Great retention

Master Surgical Kit

SM Implant System(SM-Internal)

Internal System

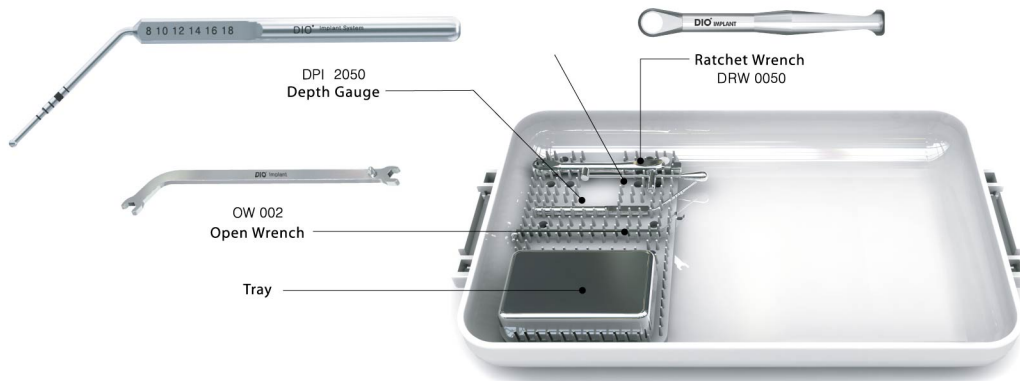
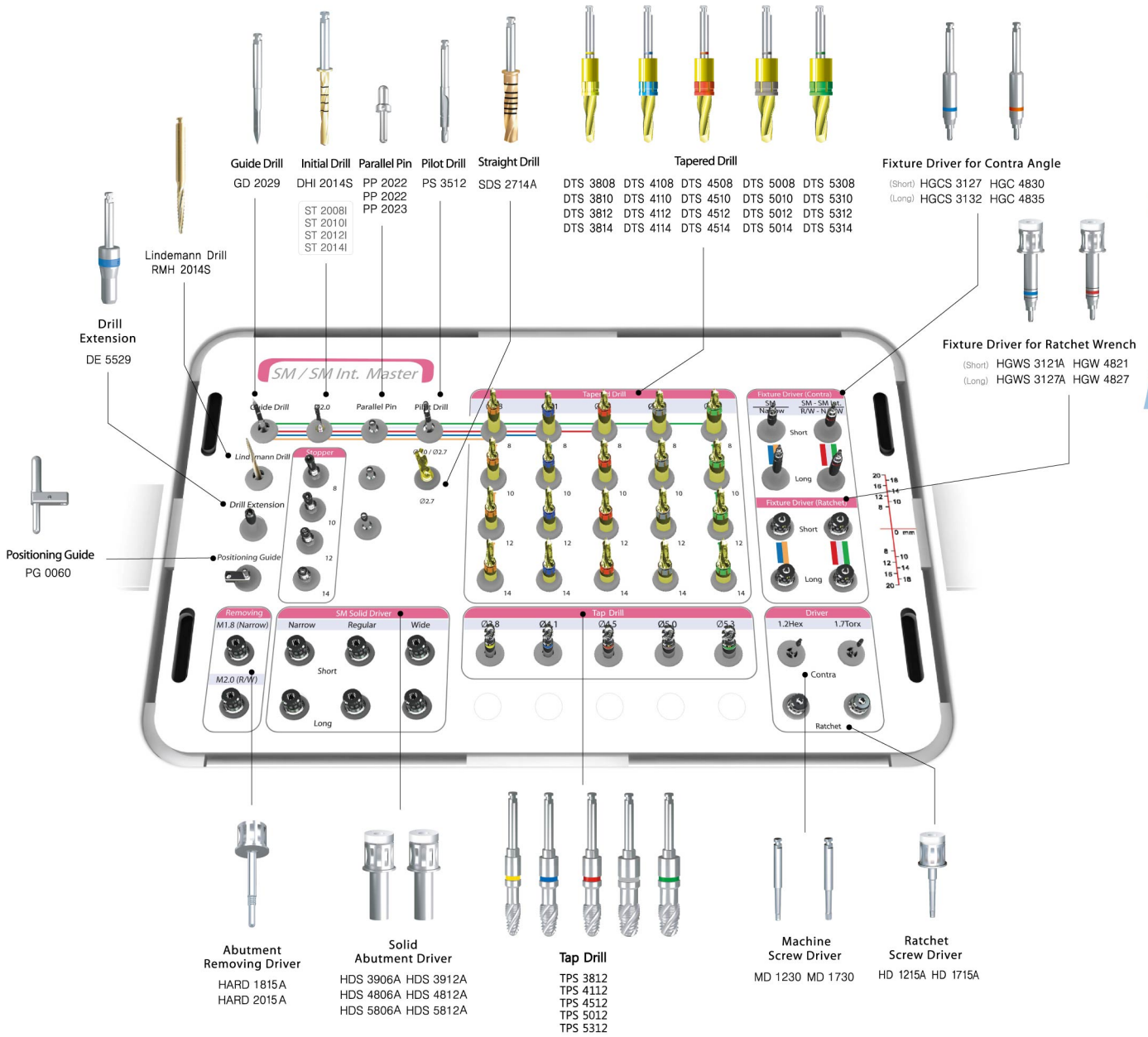


Master KIT Option

| | Fixture Driver for Contra Angle | Fixture Driver for Ratchet Wrench |
|---|--|--|
| Option Kit A | HGC 3524 HGC 4024 HGC 5024 HGC 3530 HGC 4030 HGC 5030 | HGW 3513 HGW 4013 HGW 5013 HGW 3521 HGW 4021 HGW 5021 |
| Option Kit B *Choose No.1(PSI) or No.2(FSN) | Straight Drill 1. For PSI Implant(Internal) SDS 3010A SDS 3310A SDS 3510A SDS 4310A SDS 4810A SDS 3014A SDS 3314A SDS 3514A SDS 4314A SDS 4814A | Straight Drill 2. For FSN Implant(External) SDS 3010B SDS 3310B SDS 3510B SDS 4310B SDS 4810B SDS 3015B SDS 3315B SDS 3515B SDS 4315B SDS 4815B |
| Option Kit C | Option Kit A + Option Kit B | |

SM / SM Int. Surgical Kit

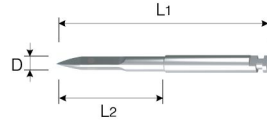
SM Implant System(SM-Internal)



Surgical Instruments

SM Implant System(SM-Internal)

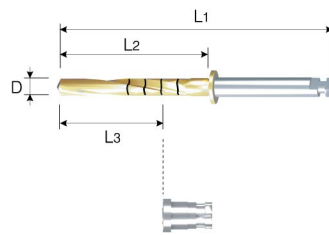
Guide Drill



| L1/L2 | D | |
|-------|------|---------|
| 25/11 | Ø2.0 | GD 2025 |
| 29/15 | Ø2.0 | GD 2029 |

- Used for drilling initial hole in bone tissue
- Bone density ascertainable during drilling

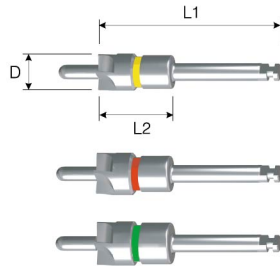
Initial Drill



| D | Ø2.0 |
|------|-----------|
| L1 | 33 |
| L2 | 18 |
| Code | DHI 2014S |
| L3 | Stopper |
| 8 | ST 2008I |
| 10 | ST 2010I |
| 12 | ST 2012I |
| 14 | ST 2014I |

- L2 Laser marked

Bone Planer



| L1/L2 | D | Ø4.95 | Ø5.65 | Ø5.9 |
|---------|---------|---------|---------|------|
| 24.5/10 | BP 5010 | BP 5710 | BP 5910 | |

- Creates a flat surface on bone
- Extracts desired bone with bone planer after initial drilling
- Handpiece speed: 400-600 rpm

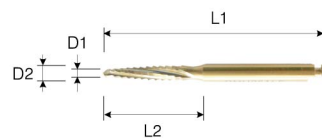
Drill Extension



| L | Solid |
|------|---------|
| 29.7 | DE 5529 |

- Provides extra length for drills used with handpieces
- Connects to the flat surface of the drill shank

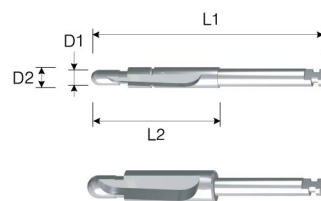
Lindemann Drill



| L1/L2 | D1/D2 | Ø1.4/Ø2.0 |
|-------|-------|-----------|
| 30/14 | | RMH 2014S |

- Provides drill direction adjustment
- Useful in site preparation and ridge reduction in extractions

Pilot Drill



| L1/L2 | D1/D2 | Ø2.0/Ø2.7 |
|-------|-------|-----------|
| 31/17 | | PS 3512 |

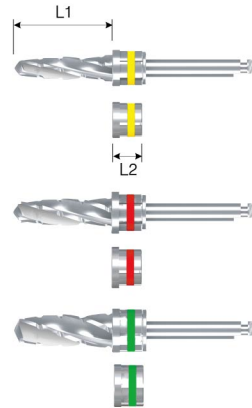
| L1/L2 | D1/D2 | Ø3.0/Ø4.3 |
|-------|-------|-----------|
| 31/17 | | PS 4812 |

- Creates a path for drilling hole
- Creates accurate guide holes for the next step in surgical extraction

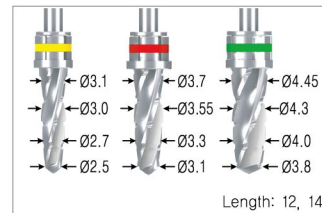
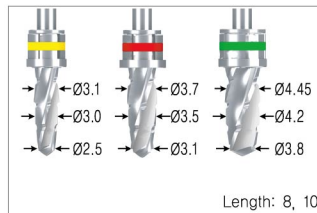
Surgical Instruments

SM Implant System(SM-Internal)

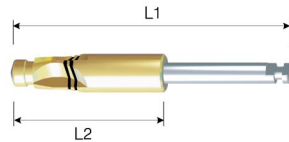
Tapered Drill



| L1 \ Fixture Dia. | Ø3.5 | Ø4.0 | Ø4.8 |
|-------------------|-----------|-----------|-----------|
| 8 | DTI 3508S | DTI 4008S | DTI 4808S |
| 10 | DTI 3510S | DTI 4010S | DTI 4810S |
| 12 | DTI 3512S | DTI 4012S | DTI 4812S |
| 14 | DTI 3514S | DTI 4014S | DTI 4814S |
| L2 | Stopper | | |
| 4 | ST 3500I | ST 4000I | ST 4800I |
| 3 | ST 3501I | ST 4001I | ST 4801I |

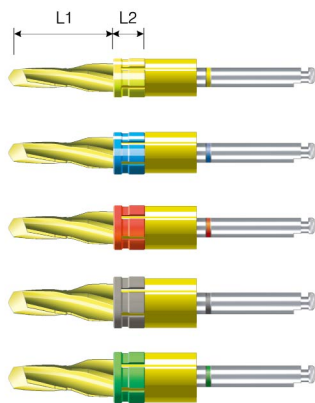


Profile Drill



| L1/L2 \ Fixture Dia. | Ø3.8 | Ø4.5 | Ø5.3 |
|----------------------|-----------|-----------|-----------|
| 26.3/12.3 | PFD 3805S | PFD 4505S | PFD 5305S |
| 31.3/17.3 | PFD 3810S | PFD 4510S | PFD 5310S |
| 36.3/22.3 | PFD 3815S | PFD 4515S | PFD 5315S |

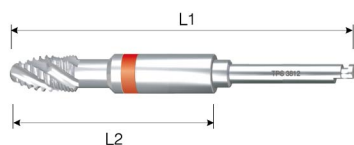
SM Tapered Drill



| L1 \ Fixture Dia. | Ø3.8 | Ø4.1 | Ø4.5 | Ø5.0 | Ø5.3 |
|-------------------|----------|----------|----------|----------|----------|
| 8 | DTS 3808 | DTS 4108 | DTS 4508 | DTS 5008 | DTS 5308 |
| 10 | DTS 3810 | DTS 4110 | DTS 4510 | DTS 5010 | DTS 5310 |
| 12 | DTS 3812 | DTS 4112 | DTS 4512 | DTS 5012 | DTS 5312 |
| 14 | DTS 3814 | DTS 4114 | DTS 4514 | DTS 5014 | DTS 5314 |
| L2 | Stopper | | | | |
| 4 | ST 3804 | ST 4104 | ST 4504 | ST 5004 | ST 5304 |
| 3 | ST 3803 | ST 4103 | ST 4503 | ST 5003 | ST 5303 |

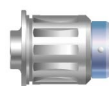
-SM Tapered Drill(Tapered drill + Profile drill)

Tap Drill



| L1/L2 \ Fixture Dia. | Ø3.8 | Ø4.1 | Ø4.5 | Ø5.0 | Ø5.3 |
|----------------------|----------|----------|----------|----------|----------|
| 36.2/20.2 | TPS 3812 | TPS 4112 | TPS 4512 | TPS 5012 | TPS 5312 |
| 41.2/25.2 | TPS 3817 | TPS 4117 | TPS 4517 | TPS 5017 | TPS 5317 |

Ratchet Adapter

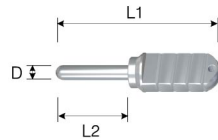


| | |
|------|---------|
| Code | RA 8011 |
|------|---------|

Surgical Instruments

SM Implant System(SM-Internal)

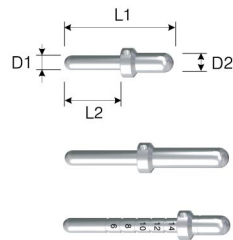
Positioning Guide



| L | D | |
|---|---|---------|
| | | Ø2.0 |
| 7 | | PG 0060 |

- Marks space between fixtures
- Used after initial drilling

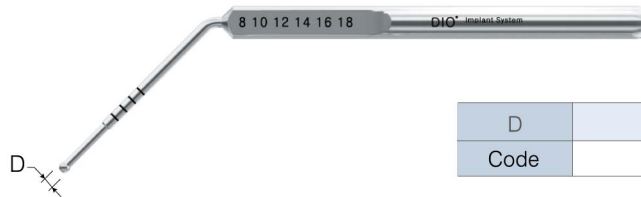
Parallel Pin



| L1/L2 | D1/D2 | |
|-------|-------|-----------|
| | | Ø2.0/Ø2.7 |
| 15/8 | | PP 2015 |
| 22/10 | | PP 2022 |
| 23/16 | | PP 2023 |

- Provides location and direction of site preparation
- Indicates the diameter of abutment and height of its collar
- Drill site depth survey
- Package Contents: Available as a part of a set or individual packaging

Depth Gauge



| D | |
|------|----------|
| | Ø2.0 |
| Code | DPP 2050 |

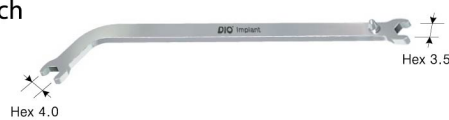
Torque Wrench



| Code | |
|------|----------|
| | DTW 0060 |

- Used in fixture implantation or screw repair
- Torque values (0, 15, 35, 50 Ncm) laser etched into the handle
- Convenient disassembly for easy cleaning

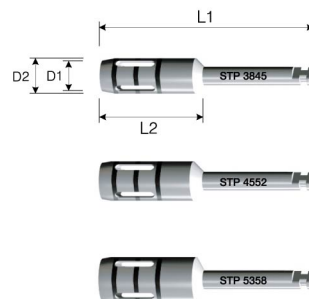
Open Wrench



| Code | |
|------|--------|
| | OW 002 |

- Used in removing mounts from weak bone tissue
- 30° neck angle for maximum comfort and ease of use

Tissue Punch



| L1/L2 | D1/D2 | |
|-------|-------|-------------------------|
| | | Ø3.8(Inner)/Ø4.5(Outer) |
| 27/13 | | STP 3845 |

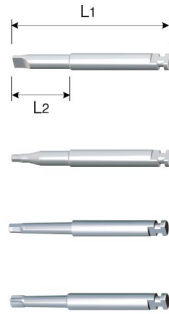
| L1/L2 | D1/D2 | |
|-------|-------|-------------------------|
| | | Ø4.5(Inner)/Ø5.2(Outer) |
| 27/13 | | STP 4552 |

| L1/L2 | D1/D2 | |
|-------|-------|-------------------------|
| | | Ø5.3(Inner)/Ø5.8(Outer) |
| 27/13 | | STP 5358 |

Surgical Instruments

SM Implant System(SM-Internal)

Machine Screw Driver



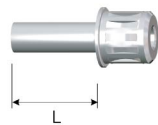
| Type | L1/L2 | Code |
|----------|-------|---------|
| 0.5 Slot | 22/8 | MD 0522 |
| | 30/16 | MD 0530 |
| 0.9 Hex | 22/8 | MD 0922 |
| | 30/16 | MD 0930 |
| 1.2 Hex | 22/8 | MD 1222 |
| | 30/16 | MD 1230 |
| 1.7 Torx | 22/8 | MD 1722 |
| | 30/16 | MD 1730 |

Ratchet Screw Driver



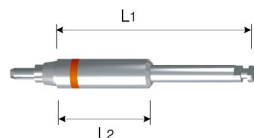
| Type | L | Code |
|----------|----|---------|
| 0.5 Slot | 10 | HD 0510 |
| | 15 | HD 0515 |
| 0.9 Hex | 10 | HD 0910 |
| | 15 | HD 0915 |
| | 20 | HD 0920 |
| 1.2 Hex | 5 | HD 1205 |
| | 10 | HD 1210 |
| | 15 | HD 1215 |
| 1.7 Torx | 20 | HD 1220 |
| | 10 | HD 1710 |
| | 15 | HD 1715 |
| | 20 | HD 1720 |

Ball Abutment Driver



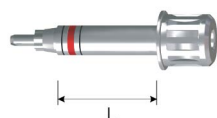
| L | Code |
|----|---------|
| 6 | HD 2406 |
| 12 | HD 2412 |

Fixture Driver for Contra Angle



| L1/L2 | Code |
|---------|----------|
| 21/6.9 | HGC 4824 |
| 27/12.9 | HGC 4830 |
| 32/17.9 | HGC 4835 |

Fixture Driver for Ratchet Wrench

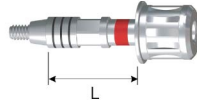


| L | Code |
|----|----------|
| 6 | HGW 4813 |
| 14 | HGW 4821 |
| 20 | HGW 4827 |

Surgical Instruments

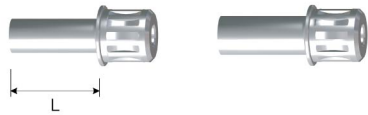
SM Implant System(SM-Internal)

Fixture Mount Driver



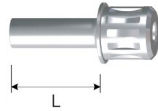
| L \ Type | M2.0 |
|----------|-----------|
| 18 | HMDI 2018 |
| 23 | HMDI 2023 |

Solid Abutment Driver



| L \ D | Ø3.5 | Ø4.3 |
|-------|---------|---------|
| 6 | HD 3506 | HD 4306 |
| 12 | HD 3512 | HD 4312 |

Octa Abutment Driver



| Type | L | Code |
|----------|----|---------|
| 3.0 Octa | 6 | HD 3006 |
| | 12 | HD 3012 |

Reamer Set



Reamer Cutter



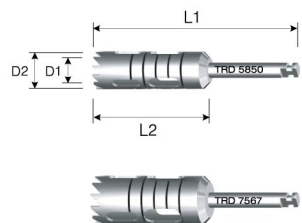
| | |
|------|--------|
| Code | IRC 76 |
|------|--------|

Reamer Pin



| D | Ø3.4 | Ø4 |
|------|--------|--------|
| Code | IRP 48 | IRP 65 |

Trephine Drill



| L1/L2 \ D1/D2 | Ø5.0(Inner)/Ø5.8(Outer) |
|---------------|-------------------------|
| 32/18 | TRD 5850 |

| L1/L2 \ D1/D2 | Ø6.7(Inner)/Ø7.5(Outer) |
|---------------|-------------------------|
| 32/18 | TRD 7567 |

Ratcher Wrench

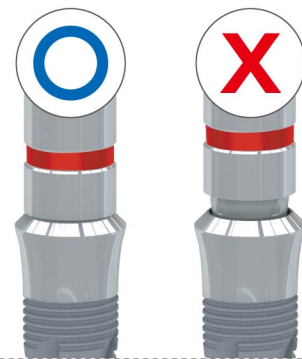


| | |
|------|---------|
| Code | DRW 050 |
|------|---------|

Site Preparation

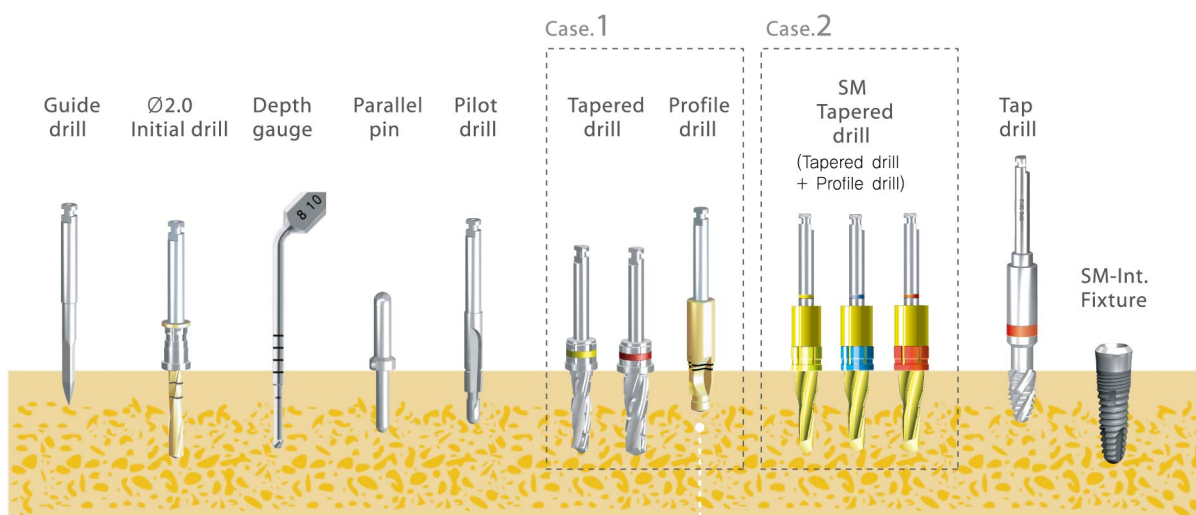
Fixture Driver

Instructions for proper fixture driver use
Remove driver from fixture only after adhesion



Site Preparation

SM-Internal Fixture / $\varnothing 4.5\text{mm}$ (Length: 12mm)

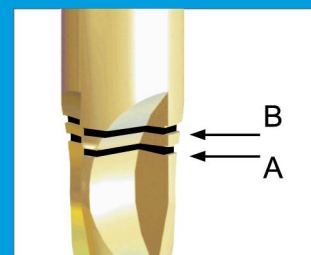


Profile drill

Used to shape top of fixture (Straight & Taper shape)

Insertion depth: Drilling depth is determined by bone tissue.
Drills up to B depth in case of D1/D2 bone.
Tap drill is recommended in cases where the D1 bone tissue is resistant.
Drills up to A depth in case of D2/D3 bone.
Profile drill is not recommended in cases where the D4 bone tissue is weak.

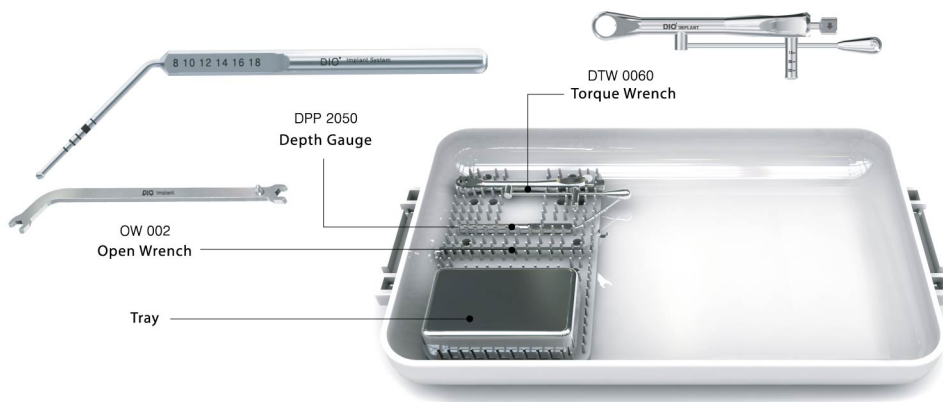
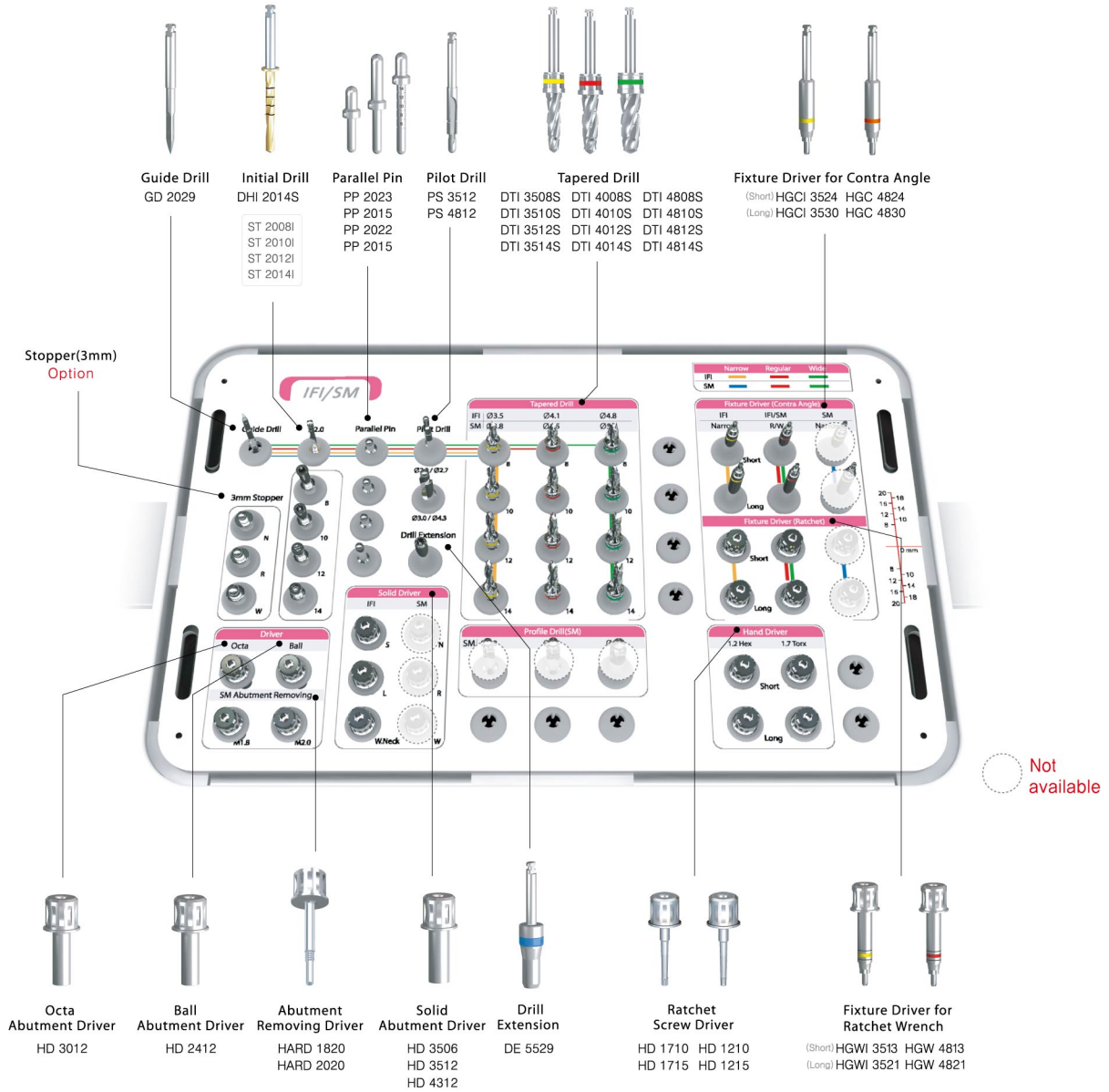
This drill is designed to prevent excess torque.
Implant depth is adjustable



IFI/SM Surgical Kit

Internal Implant System (IFI/SM)

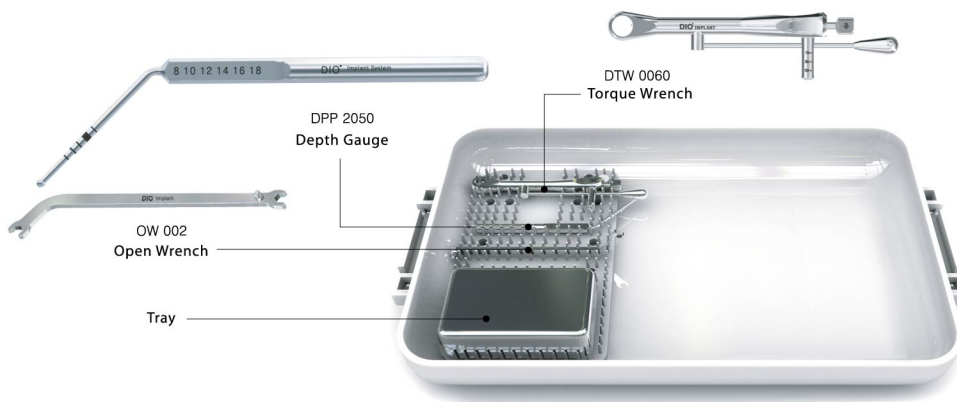
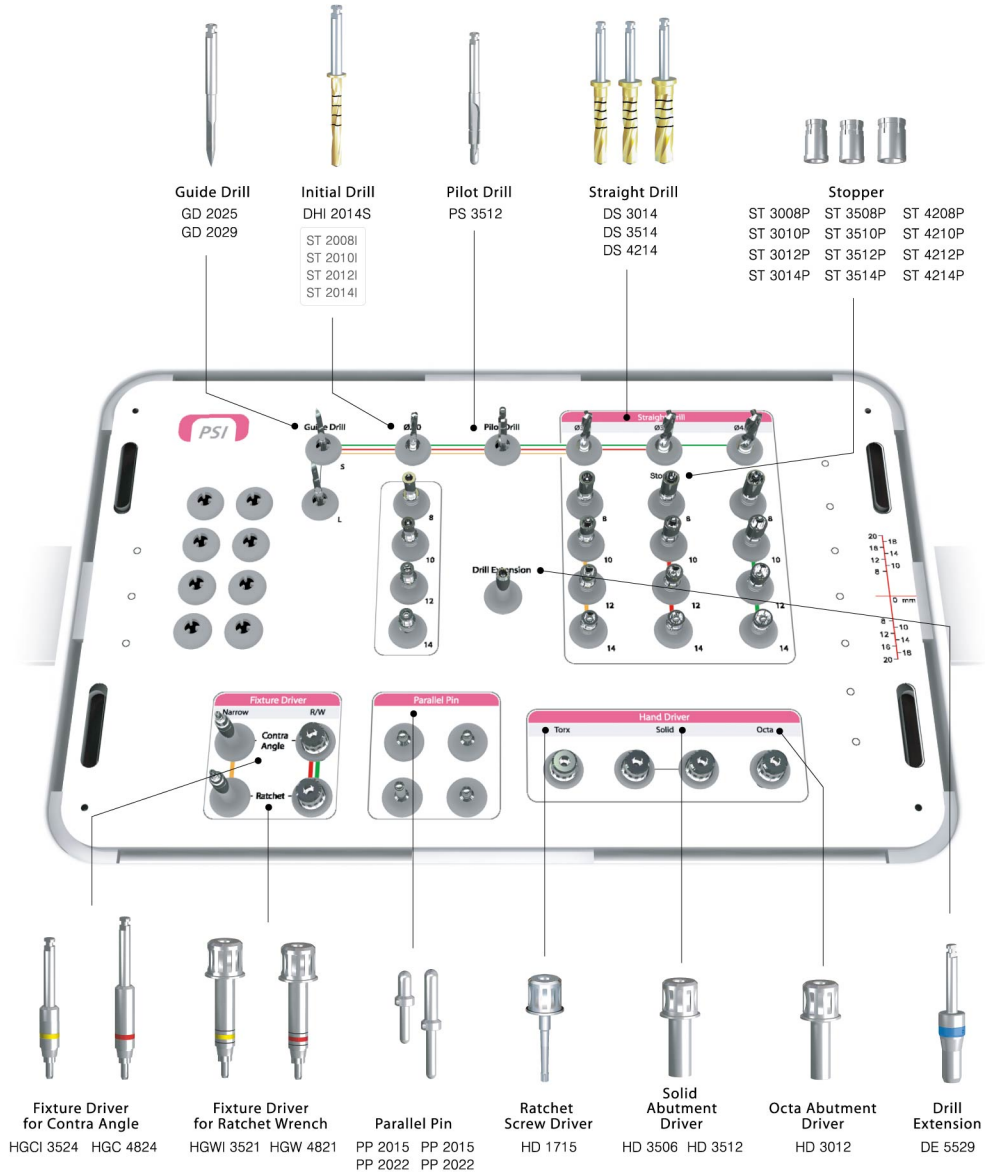
Internal System



PSI Surgical Kit

Internal Implant System(PSI)

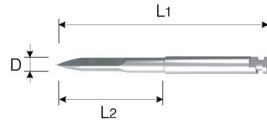
Internal System



Surgical Instruments

Internal Implant System (IFI/PSI)

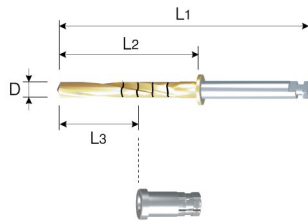
Guide Drill



| L1/L2 | D | |
|-------|---|---------|
| | | Ø2.0 |
| 25/11 | | GD 2025 |
| 29/15 | | GD 2029 |

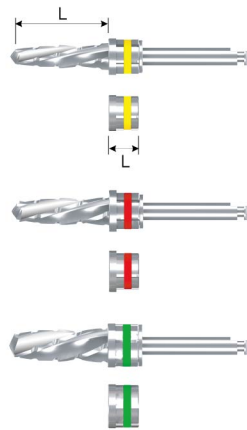
-Used for drilling initial hole in bone tissue
-Bone density ascertainable during drilling

Initial Drill



| | |
|------|-----------|
| D | Ø2.0 |
| L1 | 33.2 |
| L2 | 18 |
| Code | DHI 2014S |
| L3 | Stopper |
| 8 | ST 2008I |
| 10 | ST 2010I |
| 12 | ST 2012I |
| 14 | ST 2014I |

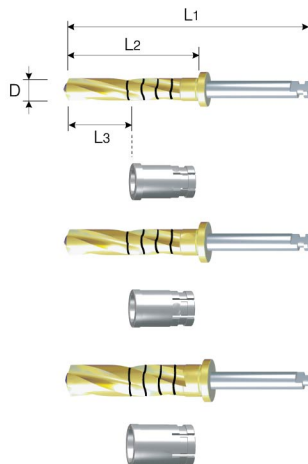
Tapered Drill



| L | Fixture Dia. | Ø3.5 | Ø4.0 | Ø4.8 |
|----|--------------|-----------|-----------|-----------|
| 8 | | DTI 3508S | DTI 4008S | DTI 4808S |
| 10 | | DTI 3510S | DTI 4010S | DTI 4810S |
| 12 | | DTI 3512S | DTI 4012S | DTI 4812S |
| 14 | | DTI 3514S | DTI 4014S | DTI 4814S |
| L | | Stopper | | |
| 4 | | ST 3500I | ST 4000I | ST 4800I |
| 3 | | ST 3501I | ST 4001I | ST 4801I |

*For use with IFI

Straight Drill



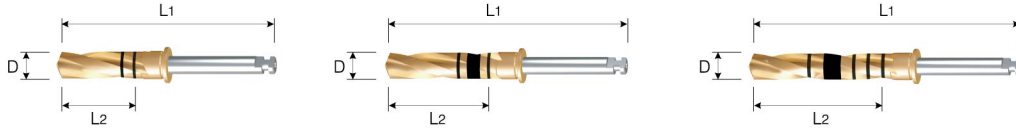
| | | | |
|------|----------|----------|----------|
| Code | DS 3014 | DS 3514 | DS 4214 |
| D | Ø3.0 | Ø3.5 | Ø4.2 |
| L1 | 33 | | |
| L2 | 18 | | |
| L3 | Stopper | | |
| 8 | ST 3008P | ST 3508P | ST 4208P |
| 10 | ST 3010P | ST 3510P | ST 4210P |
| 12 | ST 3012P | ST 3512P | ST 4212P |
| 14 | ST 3014P | ST 3514P | ST 4214P |

*For use with PSI

Surgical Instruments

Internal Implant System (IFI/PSI)

Straight Drill



| L1/L2 \ D | Ø2.7 | Ø3.0 | Ø3.3 | Ø3.5 | Ø3.8 | Ø4.3 | Ø4.8 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 24.5/10 | SDS 2710A | SDS 3010A | SDS 3310A | SDS 3510A | SDS 3810A | SDS 4310A | SDS 4810A |
| 28.5/14 | SDS 2714A | SDS 3014A | SDS 3314A | SDS 3514A | SDS 3814A | SDS 4314A | SDS 4814A |
| 32.5/18 | SDS 2718A | SDS 3018A | SDS 3318A | SDS 3518A | SDS 3818A | SDS 4318A | SDS 4818A |

* For use with PSI

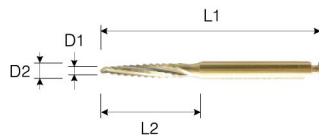
Drill Extension



| L | Code |
|------|---------|
| 29.7 | DE 5529 |

- Provides extra length for drills used with handpieces
- Connects to the flat surface of the drill shank

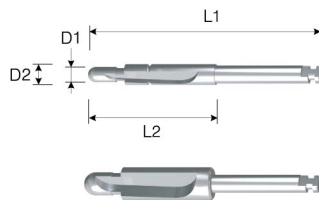
Lindemann Drill



| L1/L2 \ D1/D2 | Ø1.4/Ø2.0 |
|---------------|-----------|
| 30/14 | RMH 2014S |

- Provides drill direction adjustment
- Useful in site preparation and ridge reduction in extractions

Pilot Drill

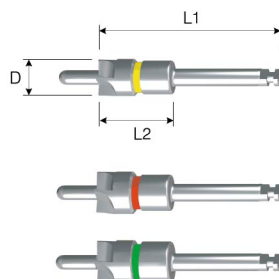


| L1/L2 \ D1/D2 | Ø2.0/Ø2.7 |
|---------------|-----------|
| 31/17 | PS 3512 |

| L1/L2 \ D1/D2 | Ø3.0/Ø4.3 |
|---------------|-----------|
| 31/17 | PS 4812 |

- Creates a path for drilling hole
- Creates accurate guide holes for the next step in surgical extraction

Bone Planer



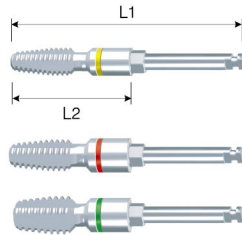
| L1/L2 \ D | Ø4.95 | Ø5.65 | Ø5.9 |
|-----------|---------|---------|---------|
| 24.5/10 | BP 5010 | BP 5710 | BP 5910 |

- Creates a flat surface on bone
- Extracts desired bone with bone planer after initial drilling
- Handpiece speed: 400–600 rpm

Surgical Instruments

Internal Implant System (IFI/PSI)

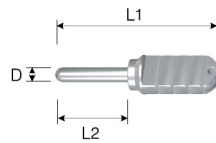
Tap Drill



| L1/L2 | Fixture Dia. | Ø3.5 | Ø4.0 | Ø4.8 |
|-------|--------------|----------|----------|----------|
| 35/19 | | TPI 3512 | TPI 4012 | TPI 4812 |
| 40/24 | | TPI 3517 | TPI 4017 | TPI 4817 |

*For use with IFI Fixture Tap

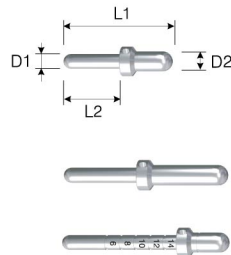
Positioning Guide



| L1/L2 | D | Ø2.0 |
|-------|---|---------|
| 22/10 | | PG 0050 |

- Marks space between fixtures
- Used after initial drilling

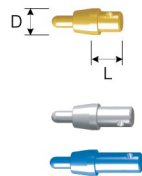
Parallel Pin



| L1/L2 | D1/D2 | Ø2.0/Ø2.7 |
|-------|-------|-----------|
| 15/8 | | PP 2015 |
| 22/10 | | PP 2022 |
| 23/16 | | PP 2023 |

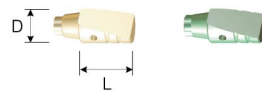
- Provides location and direction of site preparation
- Indicates the diameter of abutment and height of its collar
- Drill site depth survey
- Package Contents: Available as a part of a set or individual packaging

Path Pin



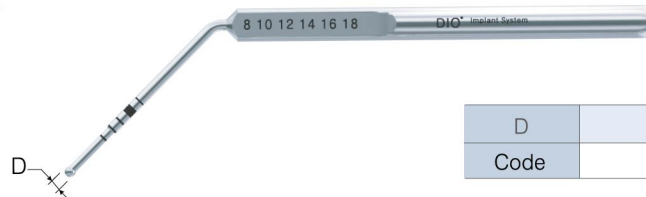
| L | D | Ø3.5 |
|-----|---|----------|
| 4 | | PPI 3540 |
| 5.5 | | PPI 3555 |
| 7 | | PPI 3570 |

Angle Path Pin



| L | D | Ø3.5 |
|-----|---|----------------------|
| 6.2 | | AAN 015 AAW 015 |

Depth Gauge



| D | Ø2.0 |
|------|----------|
| Code | DPP 2050 |

Torque Wrench



| Code | DTW 0060 |
|------|----------|
|------|----------|

- Used in fixture implantation or screw repair
- Torque values (0, 15, 35, 50 Ncm) laser etched into the handle
- Convenient disassembly for easy cleaning

Surgical Instruments

Internal Implant System (IFI/PSI)

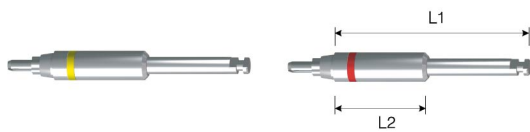
Open Wrench



| Code | OW 002 |
|------|--------|
|------|--------|

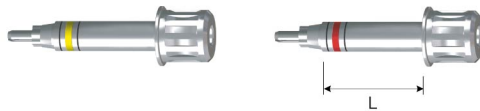
- Used in removing mounts from weak bone tissue
- 30° neck angle for maximum comfort and ease of use

Fixture Driver for Contra Angle



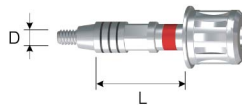
| L1/L2 | Code | |
|---------|-----------|----------|
| 21/6.7 | HGCI 3524 | HGC 4824 |
| 27/12.7 | HGCI 3530 | HGC 4830 |
| 32/17.7 | HGCI 3535 | HGC 4835 |

Fixture Driver for Ratchet Wrench



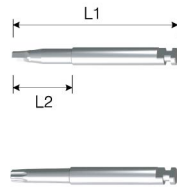
| L | Code | |
|------|-----------|----------|
| 6.2 | HGWI 3513 | HGW 4813 |
| 14.2 | HGWI 3521 | HGW 4821 |
| 20.2 | HGWI 3527 | HGW 4827 |

Fixture Mount Driver



| L | D | Ø2.0 |
|----|---|-----------|
| 12 | | HMDI 2012 |
| 18 | | HMDI 2018 |
| 23 | | HMDI 2023 |

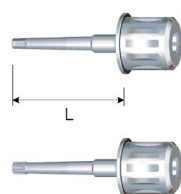
Machine Screw Driver



| Type | L1/L2 | Code |
|----------|-------|---------|
| 1.2 Hex | 19/5 | MD 1219 |
| | 22/8 | MD 1222 |
| | 30/16 | MD 1230 |
| 1.7 Torx | 19/5 | MD 1719 |
| | 22/8 | MD 1722 |
| | 30/16 | MD 1730 |

- Machine mounted screw driver
- No tip holding

Ratchet Screw Driver



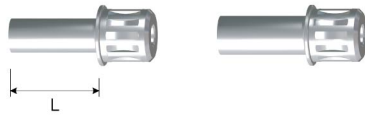
| Type | L | Code |
|----------|----|---------|
| 1.2 Hex | 5 | HD 1205 |
| | 10 | HD 1210 |
| | 15 | HD 1215 |
| | 20 | HD 1220 |
| 1.7 Torx | 10 | HD 1710 |
| | 15 | HD 1715 |
| | 20 | HD 1720 |

- Torque adjusting driver

Surgical Instruments

Internal Implant System (IFI/PSI)

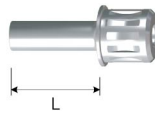
Solid Abutment Driver



| L \ D | Ø3.5 | Ø4.3 |
|-------|---------|---------|
| 6 | HD 3506 | HD 4306 |
| 12 | HD 3512 | HD 4312 |

-For use with solid abutments
 -Torque confirmed only after driver is firmly engaged with the solid abutment groove

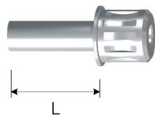
Octa Abutment Driver



| Type | L | Code |
|----------|----|---------|
| 3.0 Octa | 6 | HD 3006 |
| | 12 | HD 3012 |

-For use with Octa Abutment

Ball Abutment Driver



| Type | L | Code |
|-------------|----|---------|
| Int. 2.4Hex | 6 | HD 2406 |
| | 12 | HD 2412 |

-For use with Ball Abutment

Reamer Set



Reamer Cutter



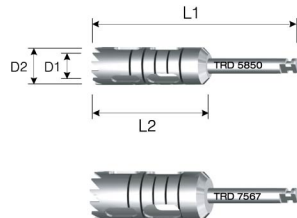
| Code | IRC 76 |
|------|--------|
|------|--------|

Reamer Pin



| D | Ø3.4 | Ø4 |
|------|--------|--------|
| Code | IRP 48 | IRP 65 |

Trepine Drill



| L1/L2 \ D1/D2 | Ø5.0 (Inner)/Ø5.8 (Outer) |
|---------------|---------------------------|
| 32/18 | TRD 5850 |

| L1/L2 \ D1/D2 | Ø6.7 (Inner)/Ø7.5 (Outer) |
|---------------|---------------------------|
| 32/18 | TRD 7567 |

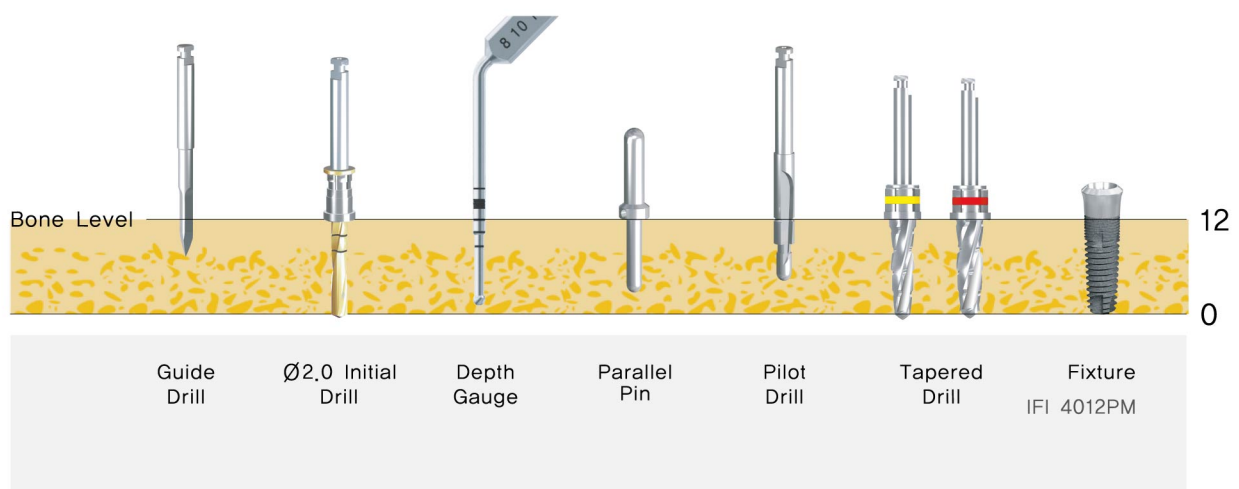
Ratcher Wrench



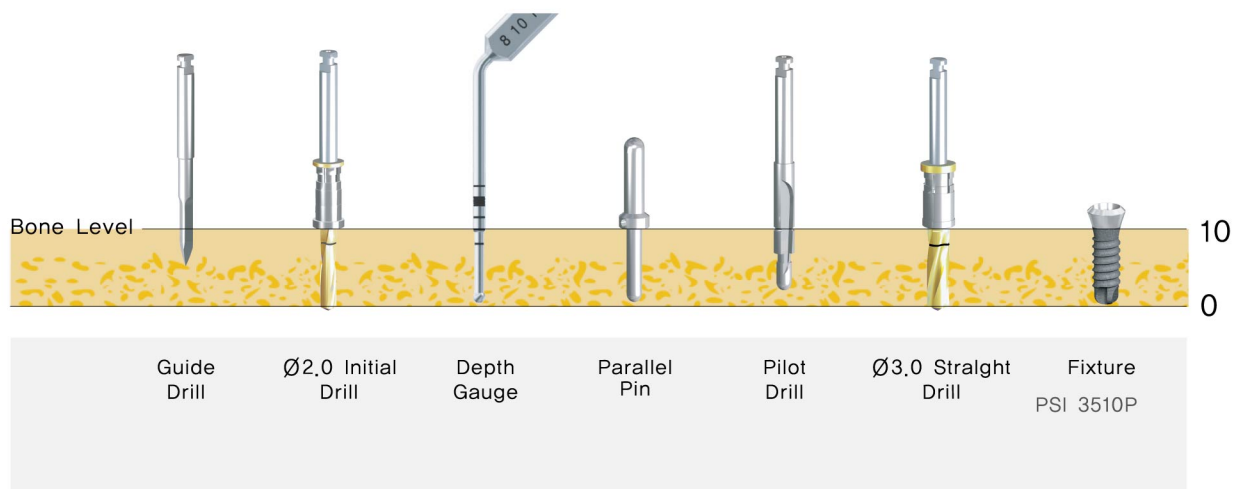
| Code | DRW 050 |
|------|---------|
|------|---------|

Site Preparation

IFI Fixture / Ø4.1mm(Length: 12mm)



PSI Fixture / Ø3.5mm(Length: 10mm)





Ext.

External Implant System

SM-External / FSN / FTN



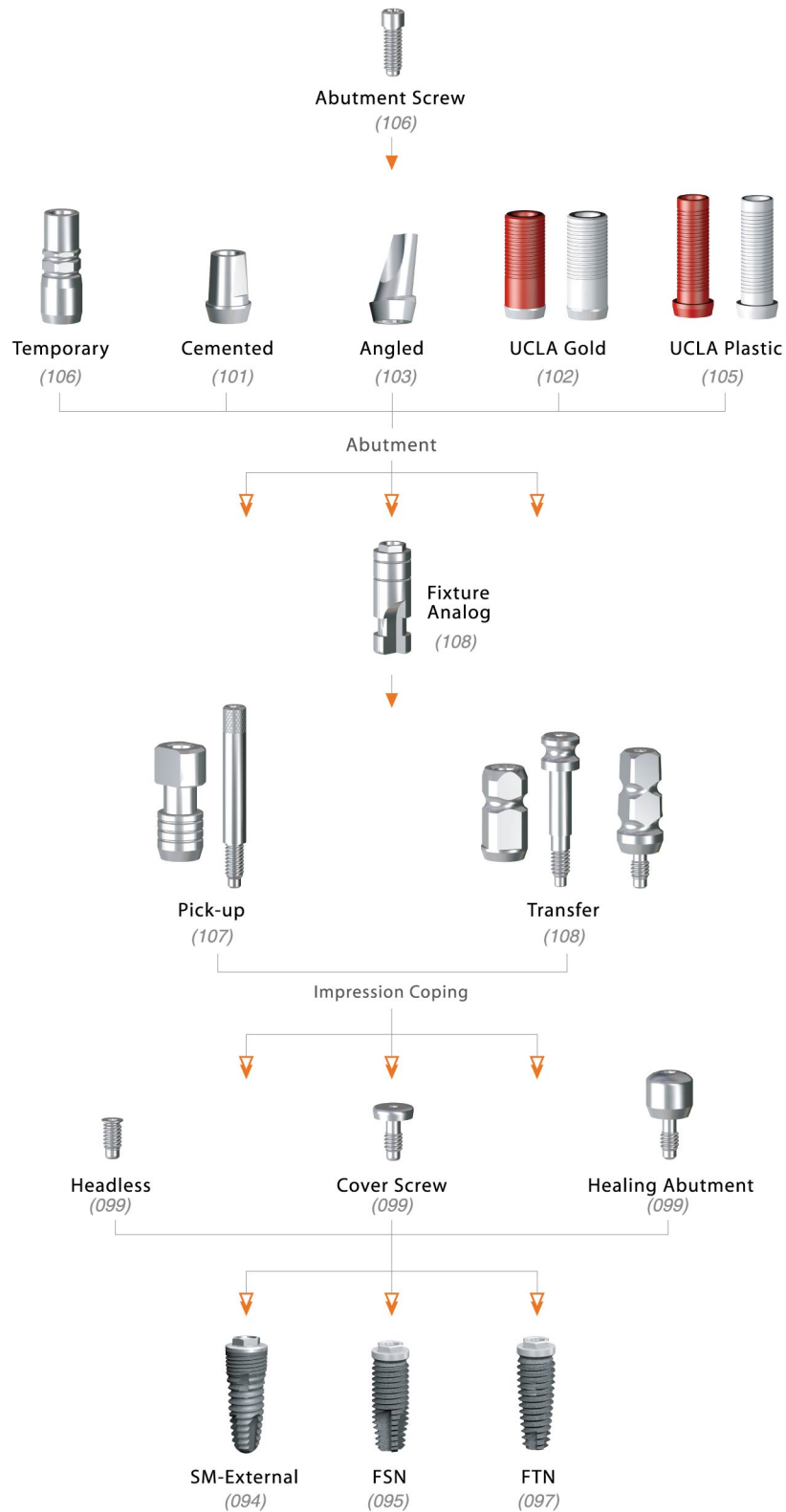
| | |
|--------------------------------------|-----|
| System Flowchart | 090 |
| Implants/Healing Abutments | 094 |
| (SM-External, FSN, FTN) | |
| Restorative Products | 099 |
| Surgical Kit | |
| Master Surgical Kit | 115 |
| Site Preparation (SM-External) | 121 |
| FSN Surgical Kit | 122 |
| FTN Surgical Kit | 123 |
| Site Preparation (FSN) | 129 |
| Site Preparation (FTN) | 129 |

DIO IMPLANT SYSTEM

www.dioimplant.com

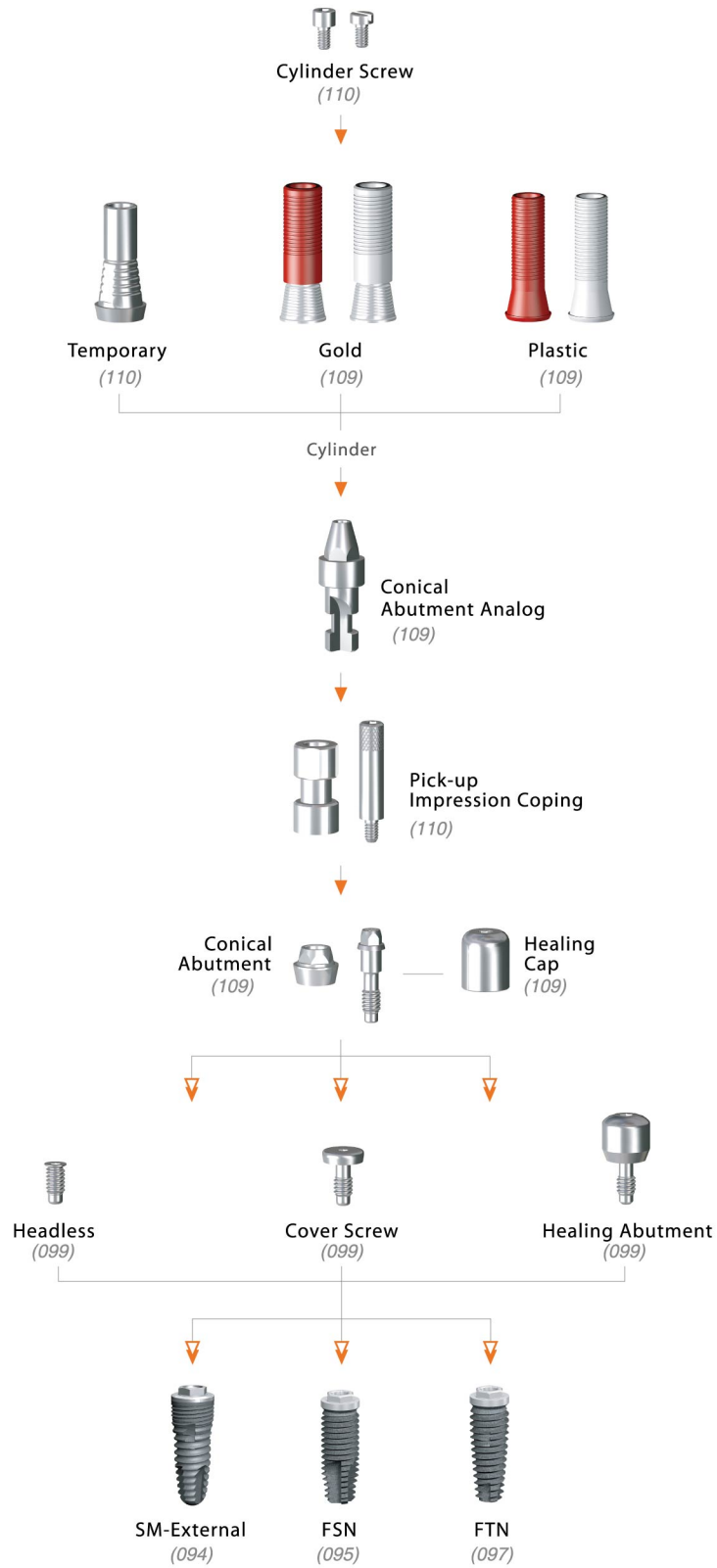
External System Flowchart

Cement-Retained Restorations - Cemented Abutment
Cement-Retained Restorations - Angled Abutment
Screw-Retained Restorations - UCLA Abutment

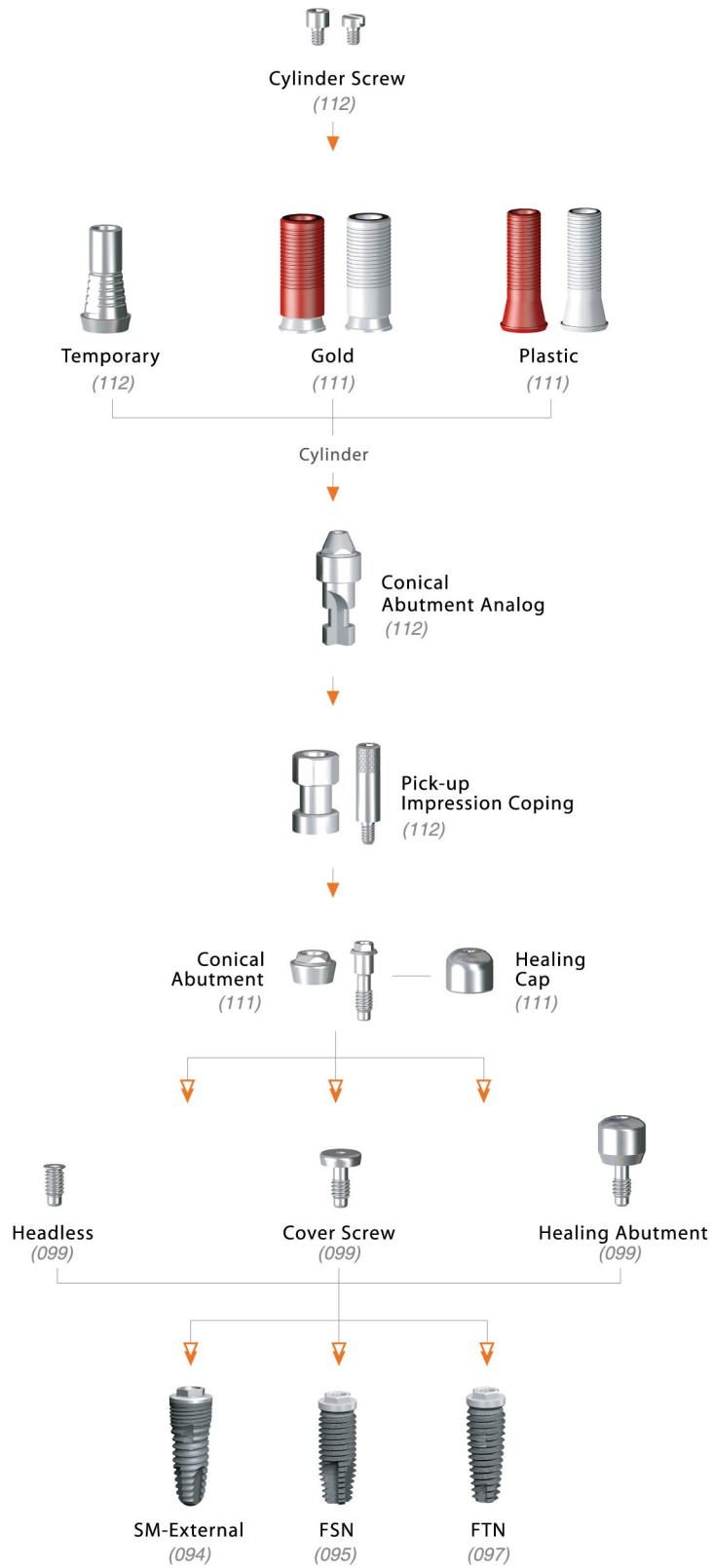


External System Flowchart

Screw-Retained Restorations - Conical Abutment(Long)

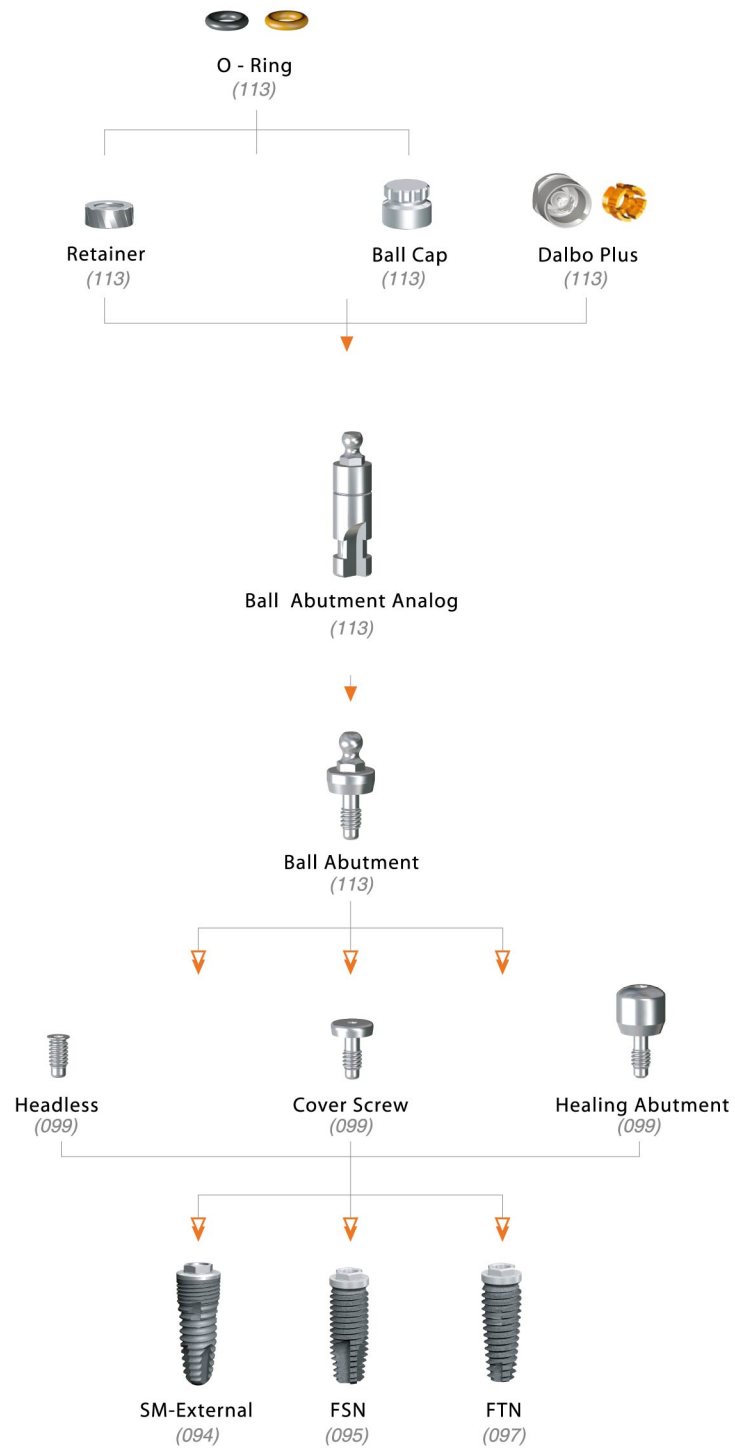


External System Flowchart
 Screw-Retained Restorations - Conical Abutment(Short)



External System Flowchart

Overdenture-Retained Restorations - Ball Abutment



External System

SM-External Fixture

N R W

› External Hex Connection Submerged Type Implant

› Platform Switching

"Platform Switching" technique is applied to the design of the implants and abutments to reduce cretal bone loss

› Double Thread

Secure initial seating prevents cortical bone loss

› Root Form Design

Root form design enables excellent stability
Reduces possibility of touching adjacent teeth root during implant insertion

› Self Tapping

Advanced thread and apex design enable easy self tapping and excellent initial stability in extraction sockets

› Surface

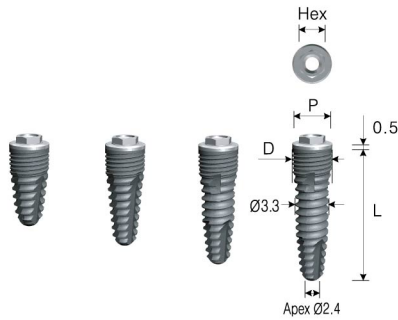
Biocompatible RBM

› Compatibility with other external systems

100% compatible with: FTN, FSN abutment products

Narrow

Platform Ø3.5

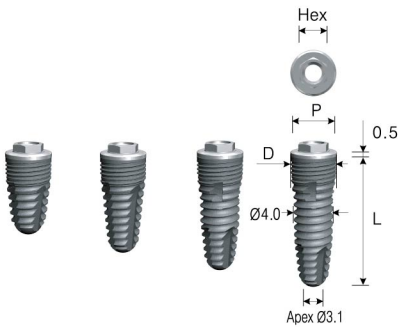


Length: 8 10 12 14

| Hex | 2.4 |
|-------|-----------|
| L \ D | Ø3.8 |
| 8 | SEFN 3808 |
| 10 | SEFN 3810 |
| 12 | SEFN 3812 |
| 14 | SEFN 3814 |

Regular

Platform Ø4.1

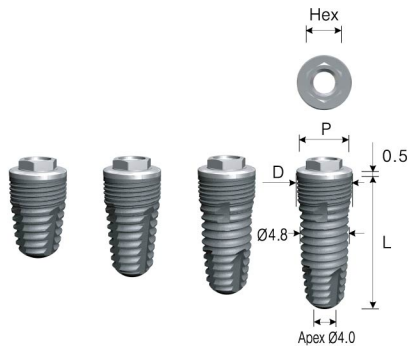


Length: 8 10 12 14

| Hex | 2.7 |
|-------|-----------|
| L \ D | Ø4.5 |
| 8 | SEFR 4508 |
| 10 | SEFR 4510 |
| 12 | SEFR 4512 |
| 14 | SEFR 4514 |

Wide

Platform Ø5.1



Length: 8 10 12 14

| Hex | 3.4 |
|-------|-----------|
| L \ D | Ø5.3 |
| 8 | SEFW 5308 |
| 10 | SEFW 5310 |
| 12 | SEFW 5312 |
| 14 | SEFW 5314 |

External FSN Fixture



External Hex Connection Submerged Type Implant

Body Design

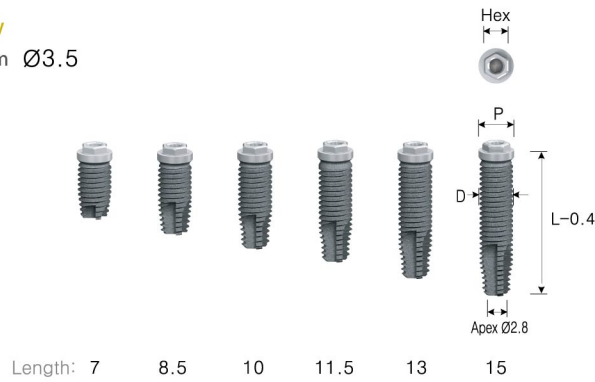
Straight design enables excellent initial stability
Reduces possibility of touching adjacent teeth root during implant insertion

Surface

Biocompatible RBM

Narrow

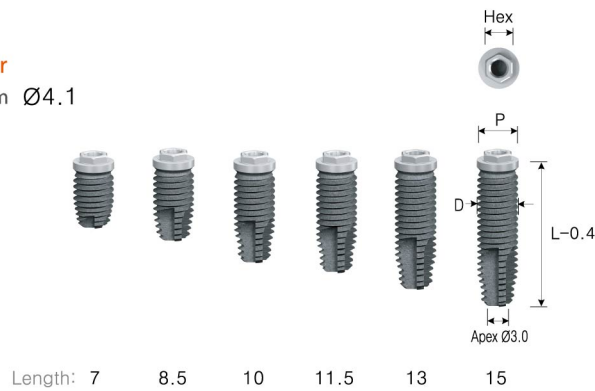
Platform Ø3.5



| Hex | 2.4 |
|-------|-----------|
| L \ D | Ø3.3 |
| 7 | FSN 3307B |
| 8.5 | FSN 3308B |
| 10 | FSN 3310B |
| 11.5 | FSN 3311B |
| 13 | FSN 3313B |
| 15 | FSN 3315B |

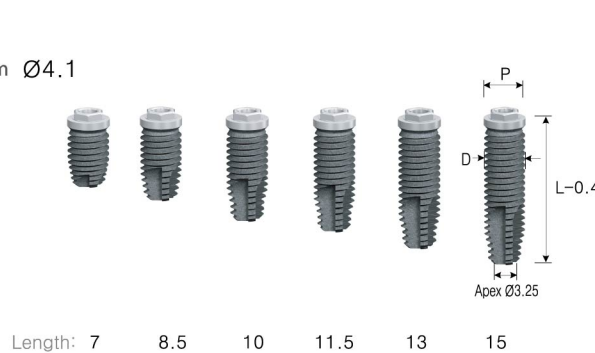
Regular

Platform Ø4.1



| Hex | 2.7 |
|-------|-----------|
| L \ D | Ø3.75 |
| 7 | FSN 3707B |
| 8.5 | FSN 3708B |
| 10 | FSN 3710B |
| 11.5 | FSN 3711B |
| 13 | FSN 3713B |
| 15 | FSN 3715B |

Platform Ø4.1



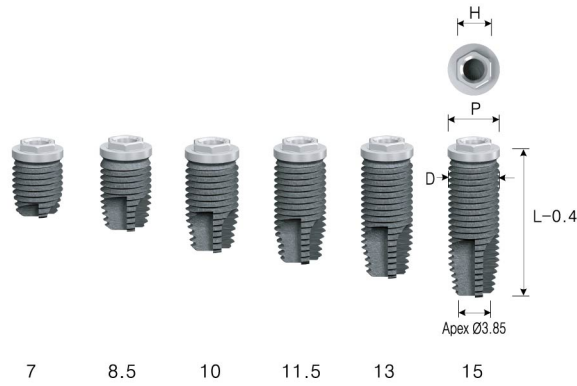
| Hex | 2.7 |
|-------|-----------|
| L \ D | Ø4.0 |
| 7 | FSN 4007B |
| 8.5 | FSN 4008B |
| 10 | FSN 4010B |
| 11.5 | FSN 4011B |
| 13 | FSN 4013B |
| 15 | FSN 4015B |

External FSN Fixture

W T-W

Wide

Platform Ø5.1



| Hex | | 3.4 |
|-------|--|-----------|
| L \ D | | Ø5.0 |
| 7 | | FSN 5007B |
| 8.5 | | FSN 5008B |
| 10 | | FSN 5010B |
| 11.5 | | FSN 5011B |
| 13 | | FSN 5013B |
| 15 | | FSN 5015B |

Platform Ø5.1



| Hex | | 3.4 |
|-------|--|-----------|
| L \ D | | Ø5.5 |
| 7 | | - |
| 8.5 | | FSN 5508B |
| 10 | | FSN 5510B |
| 11.5 | | FSN 5511B |
| 13 | | FSN 5513B |
| 15 | | FSN 5515B |

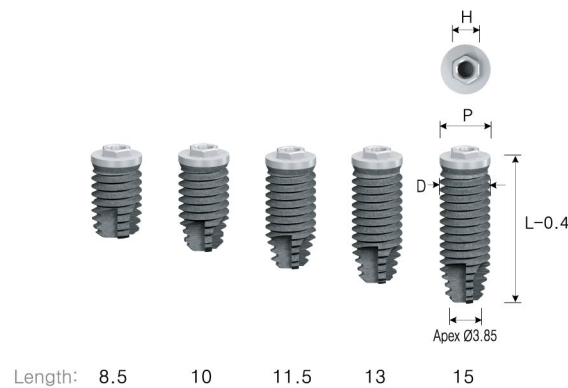
Platform Ø5.1



| Hex | | 3.4 |
|-------|--|-----------|
| L \ D | | Ø6.0 |
| 7 | | - |
| 8.5 | | FSN 6008B |
| 10 | | FSN 6010B |
| 11.5 | | FSN 6011B |
| 13 | | FSN 6013B |
| 15 | | FSN 6015B |

T-Wide

Platform Ø5.0



| Hex | | 2.7 |
|-------|--|-----------|
| L \ D | | Ø5.0 |
| 8.5 | | FST 5008B |
| 10 | | FST 5010B |
| 11.5 | | FST 5011B |
| 13 | | FST 5013B |
| 15 | | FST 5015B |

External FTN Fixture



External Hex Connection Submerged Type Implant

Body Design

Root form design enables excellent initial stability
Reduces possibility of touching adjacent teeth root during implant insertion

Self Tapping

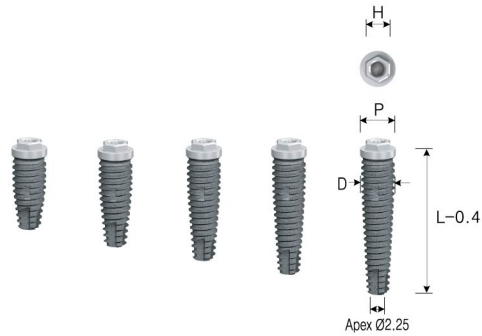
Advanced thread and apex design enable easy self tapping and excellent initial stability in extraction sockets

Surface

Biocompatible RBM

Narrow

Platform $\varnothing 3.5$

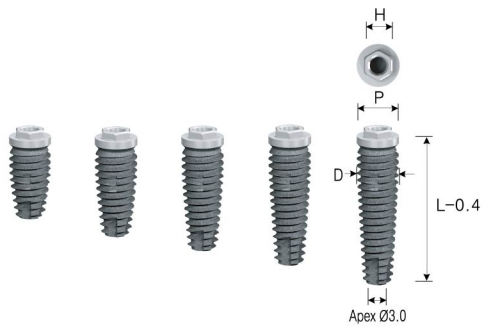


Length: 8.5 10 11.5 13 15

| Hex | 2.4 |
|-------|-------------------|
| L \ D | $\varnothing 3.3$ |
| 8.5 | FTN 3308B |
| 10 | FTN 3310B |
| 11.5 | FTN 3311B |
| 13 | FTN 3313B |
| 15 | FTN 3315B |

Regular

Platform $\varnothing 4.1$



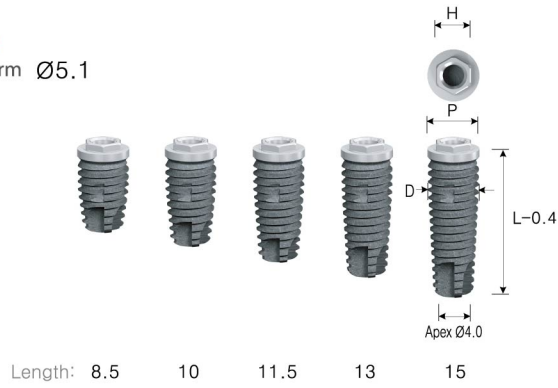
Length: 8.5 10 11.5 13 15

| Hex | 2.7 |
|-------|-------------------|
| L \ D | $\varnothing 4.0$ |
| 8.5 | FTN 4008B |
| 10 | FTN 4010B |
| 11.5 | FTN 4011B |
| 13 | FTN 4013B |
| 15 | FTN 4015B |

External FTN Fixture

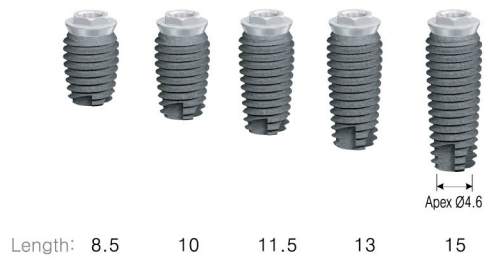
W T-W

Wide Platform Ø5.1



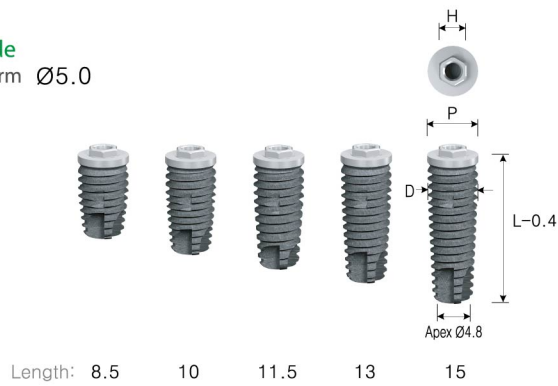
| Hex | | 3.4 |
|-------|-----------|-----|
| L \ D | Ø5.0 | |
| 8.5 | FTN 5008B | |
| 10 | FTN 5010B | |
| 11.5 | FTN 5011B | |
| 13 | FTN 5013B | |
| 15 | FTN 5015B | |

Platform Ø5.1



| Hex | | 3.4 |
|-------|-----------|-----|
| L \ D | Ø5.5 | |
| 8.5 | FTN 5508B | |
| 10 | FTN 5510B | |
| 11.5 | FTN 5511B | |
| 13 | FTN 5513B | |
| 15 | FTN 5515B | |

T-Wide Platform Ø5.0

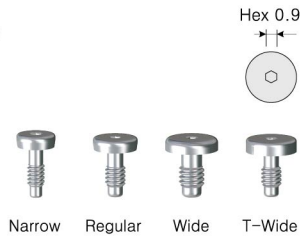


| Hex | | 2.7 |
|-------|-----------|-----|
| L \ D | Ø5.0 | |
| 8.5 | FTT 5008B | |
| 10 | FTT 5010B | |
| 11.5 | FTT 5011B | |
| 13 | FTT 5013B | |
| 15 | FTT 5015B | |

Cover Screw / Headless / Healing Abutment

N R W T-W

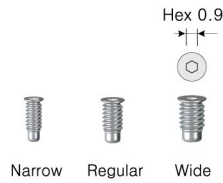
Cover Screw



| Platform | Ø3.5 | Ø4.1 | Ø5.1 | Ø5.0 |
|----------|----------|----------|----------|----------|
| Code | CHN 3501 | CHN 4001 | CHN 5001 | CHT 5001 |

- Uses 0,9 Hex Driver
- Package Contents: Cover Screw
- Tightening Torque: 5-8 Ncm

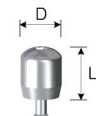
Headless



| Code | CHN 3500N | CHN 4000N | CHN 5000N |
|------|-----------|-----------|-----------|
|------|-----------|-----------|-----------|

- For use in restrictive spaces and difficulty closing sutures in gingiva
- Uses 0,9 Hex Driver
- Compatible with Regular and T-Wide
- Package Contents: Headless
- Tightening Torque: 5-8 Ncm

Hex 1.2



Narrow

Regular

Regular

Wide

T-Wide

Healing Abutment

| Platform | Ø3.5 | Ø4.1 | Ø5.1 | Ø5.0 | |
|----------|-----------|-----------|-----------|-----------|-----------|
| L \ D | Ø4.0 | Ø5.0 | Ø6.0 | Ø6.0 | |
| 2 | AHN 35402 | AHN 40502 | AHN 40602 | AHN 50602 | AHT 50602 |
| 3 | AHN 35403 | AHN 40503 | AHN 40603 | AHN 50603 | AHT 50603 |
| 4 | AHN 35404 | AHN 40504 | AHN 40604 | AHN 50604 | AHT 50604 |
| 5 | AHN 35405 | AHN 40505 | AHN 40605 | AHN 50605 | AHT 50605 |
| 6 | AHN 35406 | AHN 40506 | AHN 40606 | AHN 50606 | AHT 50606 |
| 8 | AHN 35408 | AHN 40508 | AHN 40608 | AHN 50608 | AHT 50608 |

- Packing Contents: Healing Abutment
- Tightening Torque: 5~8Ncm
- Uses 1,2Hex Driver

Abutments for External Implant System



Ball Abutment
(113)



Gold Cylinder (Long)
(109)



Conical Abutment (Long)
(109)



Gold Cylinder (Short)
(111)



Conical Abutment (Short)
(111)



UCLA Plastic Abutment
(105)



UCLA Gold Abutment
(104)



Cemented Abutment
(100)



Angled Abutment
(103)

Cemented Abutment

- Used in fabricating standard cement type prosthesis
- Taper Body Design for precise connection with prosthetic
- Prosthetic rotation prevention
- Uses 1.7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

Narrow

Platform Ø3.5



| C | D | Ø4.0 | |
|---|-----|-----------|------------|
| | | Type | |
| | | Hex | Non-Hex |
| 1 | 4 | AMN 35415 | AMN 35415N |
| | 5.5 | AMN 35416 | AMN 35416N |
| | 7 | AMN 35418 | AMN 35418N |
| 2 | 4 | AMN 35426 | AMN 35426N |
| | 5.5 | AMN 35427 | AMN 35427N |
| | 7 | AMN 35429 | AMN 35429N |
| 3 | 4 | AMN 35437 | AMN 35437N |
| | 5.5 | AMN 35438 | AMN 35438N |
| | 7 | AMN 35430 | AMN 35430N |
| 4 | 4 | AMN 35448 | AMN 35448N |
| | 5.5 | AMN 35449 | AMN 35449N |
| | 7 | AMN 35441 | AMN 35441N |

Regular

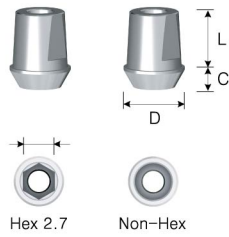
Platform Ø4.1



| C | D | Ø5.0 | |
|---|-----|-----------|------------|
| | | Type | |
| | | Hex | Non-Hex |
| 1 | 4 | AMN 40515 | AMN 40515N |
| | 5.5 | AMN 40516 | AMN 40516N |
| | 7 | AMN 40518 | AMN 40518N |
| 2 | 4 | AMN 40526 | AMN 40526N |
| | 5.5 | AMN 40527 | AMN 40527N |
| | 7 | AMN 40529 | AMN 40529N |
| 3 | 4 | AMN 40537 | AMN 40537N |
| | 5.5 | AMN 40538 | AMN 40538N |
| | 7 | AMN 40530 | AMN 40530N |
| 4 | 4 | AMN 40548 | AMN 40548N |
| | 5.5 | AMN 40549 | AMN 40549N |
| | 7 | AMN 40541 | AMN 40541N |

Regular

Platform Ø4.1



| C | D | | Ø6.0 | |
|---|-----|------|-----------|------------|
| | L | Type | Hex | Non-Hex |
| 1 | 4 | | AMN 40615 | AMN 40615N |
| | 5.5 | | AMN 40616 | AMN 40616N |
| | 7 | | AMN 40618 | AMN 40618N |
| 2 | 4 | | AMN 40626 | AMN 40626N |
| | 5.5 | | AMN 40627 | AMN 40627N |
| | 7 | | AMN 40629 | AMN 40629N |
| 3 | 4 | | AMN 40637 | AMN 40637N |
| | 5.5 | | AMN 40638 | AMN 40638N |
| | 7 | | AMN 40630 | AMN 40630N |
| 4 | 4 | | AMN 40648 | AMN 40648N |
| | 5.5 | | AMN 40649 | AMN 40649N |
| | 7 | | AMN 40641 | AMN 40641N |

Wide

Platform Ø5.1



| C | D | | Ø6.0 | |
|---|-----|------|-----------|------------|
| | L | Type | Hex | Non-Hex |
| 1 | 4 | | AMN 50615 | AMN 50615N |
| | 5.5 | | AMN 50616 | AMN 50616N |
| | 7 | | AMN 50618 | AMN 50618N |
| 2 | 4 | | AMN 50626 | AMN 50626N |
| | 5.5 | | AMN 50627 | AMN 50627N |
| | 7 | | AMN 50629 | AMN 50629N |
| 3 | 4 | | AMN 50637 | AMN 50637N |
| | 5.5 | | AMN 50638 | AMN 50638N |
| | 7 | | AMN 50630 | AMN 50630N |
| 4 | 4 | | AMN 50648 | AMN 50648N |
| | 5.5 | | AMN 50649 | AMN 50649N |
| | 7 | | AMN 50641 | AMN 50641N |

T-Wide

Platform Ø5.0



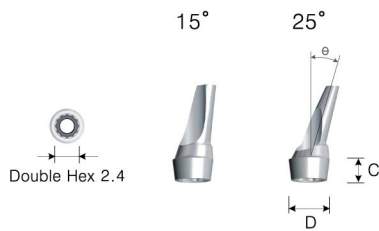
| C | D | | Ø6.0 | |
|---|-----|------|-----------|------------|
| | L | Type | Hex | Non-Hex |
| 1 | 4 | | AMT 50615 | AMT 50615N |
| | 5.5 | | AMT 50616 | AMT 50616N |
| | 7 | | AMT 50618 | AMT 50618N |
| 2 | 4 | | AMT 50626 | AMT 50626N |
| | 5.5 | | AMT 50627 | AMT 50627N |
| | 7 | | AMT 50629 | AMT 50629N |
| 3 | 4 | | AMT 50637 | AMT 50637N |
| | 5.5 | | AMT 50638 | AMT 50638N |
| | 7 | | AMT 50630 | AMT 50630N |
| 4 | 4 | | AMT 50648 | AMT 50648N |
| | 5.5 | | AMT 50649 | AMT 50649N |
| | 7 | | AMT 50641 | AMT 50641N |

Angled Abutment

- For use in situations where prosthetic path needs adjustment
- Double Hex connection provides abutment adjustment control
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

Narrow

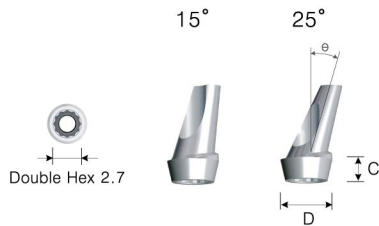
Platform Ø3.5



| Angle | C \ D | Ø4.0 |
|-------|-------|-----------|
| 15° | 2 | AAN 35215 |
| | 4 | AAN 35415 |
| 25° | 2 | AAN 35225 |
| | 4 | AAN 35425 |

Regular

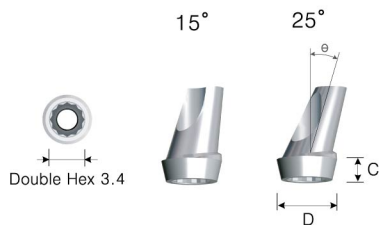
Platform Ø4.1



| Angle | C \ D | Ø5.0 |
|-------|-------|-----------|
| 15° | 2 | AAN 40215 |
| | 4 | AAN 40415 |
| 25° | 2 | AAN 40225 |
| | 4 | AAN 40425 |

Wide

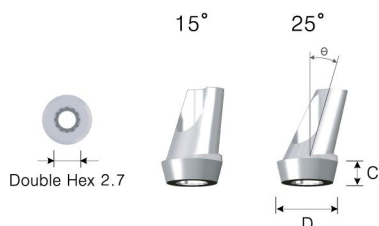
Platform Ø5.1



| Angle | C \ D | Ø6.0 |
|-------|-------|-----------|
| 15° | 2 | AAN 50215 |
| | 4 | AAN 50415 |
| 25° | 2 | AAN 50225 |
| | 4 | AAN 50425 |

T-Wide

Platform Ø5.0



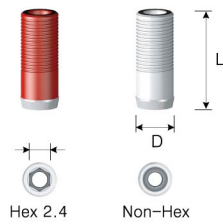
| Angle | C \ D | Ø6.0 |
|-------|-------|-----------|
| 15° | 2 | AAT 50215 |
| | 4 | AAT 50415 |
| 25° | 2 | AAT 50225 |
| | 4 | AAT 50425 |

UCLA Gold Abutment

- Used for superior aesthetics and precision
- Gold casting for ultimate customization
- Abutment Melting Point: 1400-1450°C (results may vary by casting machine)
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

Narrow

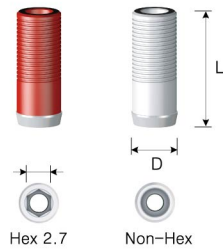
Platform Ø3.5



| | |
|----------|------------|
| D | Ø4.0 |
| Type \ L | 11 |
| Hex | AGN 35414 |
| Non-Hex | AGN 35414N |

Regular

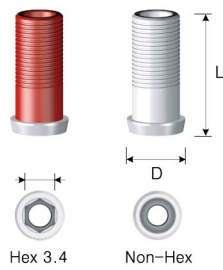
Platform Ø4.1



| | |
|----------|------------|
| D | Ø4.5 |
| Type \ L | 11 |
| Hex | AGN 40514 |
| Non-Hex | AGN 40514N |

Wide

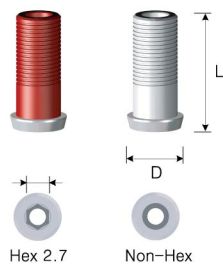
Platform Ø5.1



| | |
|----------|------------|
| D | Ø5.5 |
| Type \ L | 11 |
| Hex | AGN 50614 |
| Non-Hex | AGN 50614N |

T-Wide

Platform Ø5.0



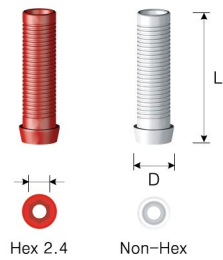
| | |
|----------|------------|
| D | Ø5.5 |
| Type \ L | 10 |
| Hex | AGT 50614 |
| Non-Hex | AGT 50614N |

UCLA Plastic Abutment

- Used for superior aesthetics and customization
- Gold casting for ultimate customization
- Less precise than the UCLA Gold Abutment
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

Narrow

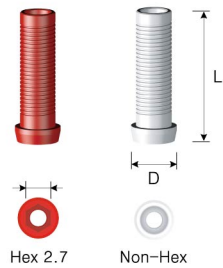
Platform Ø3.5



| | |
|----------|------------|
| D | Ø4.0 |
| Type \ L | 13 |
| Hex | APN 35413 |
| Non-Hex | APN 35413N |

Regular

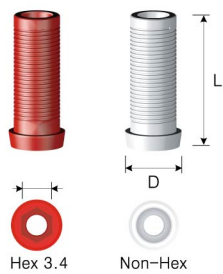
Platform Ø4.1



| | |
|----------|------------|
| D | Ø4.5 |
| Type \ L | 13 |
| Hex | APN 40513 |
| Non-Hex | APN 40513N |

Wide

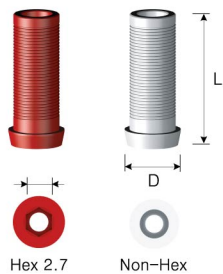
Platform Ø5.1



| | |
|----------|------------|
| D | Ø5.5 |
| Type \ L | 13 |
| Hex | APN 50613 |
| Non-Hex | APN 50613N |

T-Wide

Platform Ø5.0



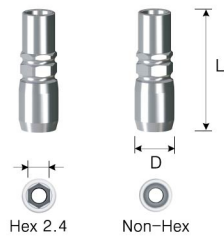
| | |
|----------|------------|
| D | Ø5.5 |
| Type \ L | 13 |
| Hex | APT 50613 |
| Non-Hex | APT 50613N |

Temporary Abutment

- Used for fabricating temporary prosthetics
- Simple customization
- Minimizes restriction while in use
- Uses 1,7 Torx Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

Narrow

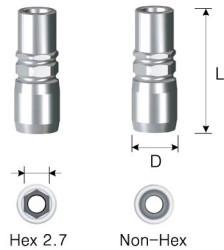
Platform Ø3.5



| | |
|----------|------------|
| D | Ø4.0 |
| Type \ L | 12 |
| Hex | TMN 35412 |
| Non-Hex | TMN 35412N |

Regular

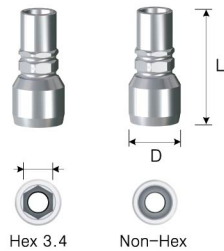
Platform Ø4.1



| | |
|----------|------------|
| D | Ø4.5 |
| Type \ L | 12 |
| Hex | TMN 40512 |
| Non-Hex | TMN 40512N |

Wide

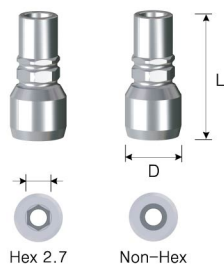
Platform Ø5.1



| | |
|----------|------------|
| D | Ø5.5 |
| Type \ L | 12 |
| Hex | TMN 50612 |
| Non-Hex | TMN 50612N |

T-Wide

Platform Ø5.0



| | |
|----------|------------|
| D | Ø5.5 |
| Type \ L | 12 |
| Hex | TMT 50612 |
| Non-Hex | TMT 50612N |

Abutment Screw



| | | | |
|------|----------|----------|----------|
| Code | STN 1608 | STN 2008 | STN 2508 |
|------|----------|----------|----------|

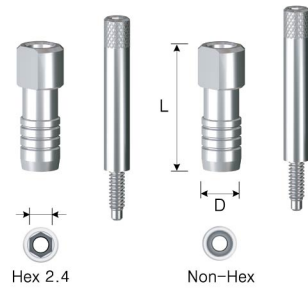
*T-Wide: STN 2008

Pick-up Impression Coping

- Used for pick-up impressions with custom trays
- Minimizes distortion
- Long and short compositions available
- Uses 1,2 Hex Driver
- Package Contents: Impression Coping Body + Guide Pin

Narrow

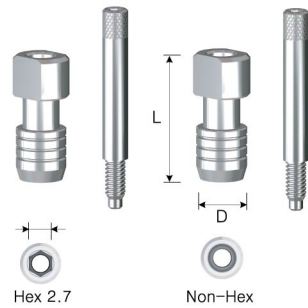
Platform Ø3.5



| D | Ø3.8 | |
|----------|-----------|------------|
| Type \ L | 8 | 12 |
| Hex | IPN 3508 | IPN 35412 |
| Non-Hex | IPN 3508N | IPN 35412N |

Regular

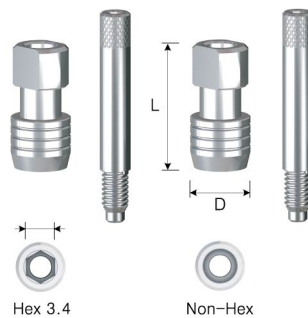
Platform Ø4.1



| D | Ø4.8 | |
|----------|-----------|------------|
| Type \ L | 8 | 12 |
| Hex | IPN 4008 | IPN 40512 |
| Non-Hex | IPN 4008N | IPN 40512N |

Wide

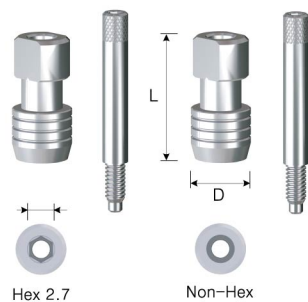
Platform Ø5.1



| D | Ø5.8 | |
|----------|-----------|------------|
| Type \ L | 8 | 12 |
| Hex | IPN 5008 | IPN 50612 |
| Non-Hex | IPN 5008N | IPN 50612N |

T-Wide

Platform Ø5.0



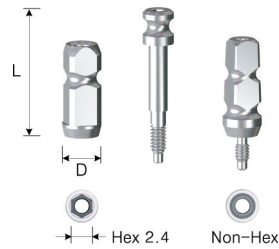
| D | Ø5.8 | |
|----------|-----------|------------|
| Type \ L | 8 | 12 |
| Hex | IPT 5008 | IPT 50612 |
| Non-Hex | IPT 5008N | IPT 50612N |

Transfer Impression Coping

-Used for Transfer Type impressions with custom trays
 -Hex Type, two-piece construction; Non-Hex Type, one-piece construction
 -Package Contents: Impression Coping Body + Guide Pin (Hex); Impression Coping (Non-Hex)

Narrow

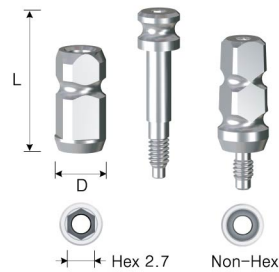
Platform Ø3.5



| D | | Ø3.8 | |
|---------|---|------------|-----------|
| Type | L | 13 | 11 |
| Hex | | ITN 35412H | - |
| Non-Hex | | - | ITN 35412 |

Regular

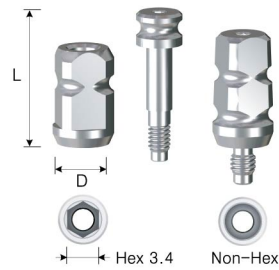
Platform Ø4.1



| D | | Ø5.0 | |
|---------|---|------------|-----------|
| Type | L | 13 | 11 |
| Hex | | ITN 40512H | - |
| Non-Hex | | - | ITN 40512 |

Wide

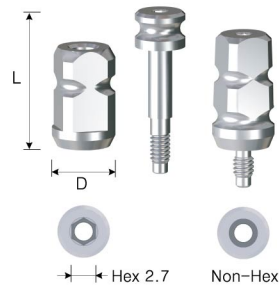
Platform Ø5.1



| D | | Ø6.0 | |
|---------|---|------------|-----------|
| Type | L | 12 | 11 |
| Hex | | ITN 50612H | - |
| Non-Hex | | - | ITN 50612 |

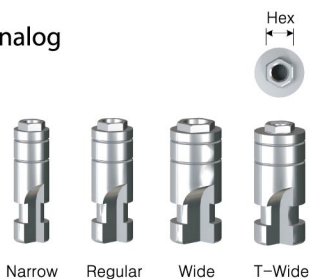
T-Wide

Platform Ø5.0



| D | | Ø6.0 | |
|---------|---|------------|-----------|
| Type | L | 9.5 | 11 |
| Hex | | ITT 50612H | - |
| Non-Hex | | - | ITT 50612 |

Fixture Analog

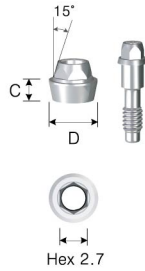


| Platform | 3.5 | 4.1 | 5.1 | 5.0 |
|----------|-----------|-----------|-----------|-----------|
| Hex | 2.4 | 2.7 | 3.4 | 2.7 |
| Code | RMN 35312 | RMN 40412 | RMN 50512 | RMT 50512 |

-Provides anchor point for fixtures
 -Package Contents: Analog

Conical Abutment

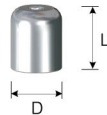
Platform Ø4.1



| C \ D | Ø4.8 |
|-------|-----------|
| 1 | ACN 40513 |
| 2 | ACN 40524 |
| 3 | ACN 40535 |
| 4 | ACN 40546 |

- Maintains screw and prosthetic aesthetics
- For fabrication of prosthetic on cylinder after abutment has been placed
- Up to 30° path angle
- Uses 2,0 Internal Conical Abutment Driver
- Package Contents: Abutment + Abutment Screw
- Tightening Torque: 35 Ncm

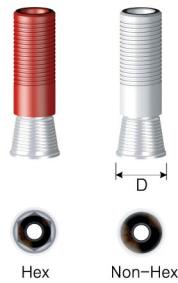
Healing Cap



| L \ D | Ø4.8 |
|-------|-----------|
| 6 | HCN 40506 |

- Protects the Conical Abutment and promotes patient healing
- Uses 1,2 Hex Driver
- Package Contents: Healing Cap
- Tightening Torque: 20 Ncm

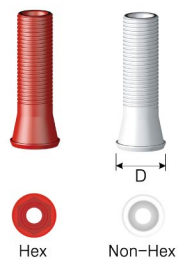
Gold Cylinder



| Type \ D | Ø5.0 |
|----------|------------|
| Hex | AGN 40506 |
| Non-Hex | AGN 40506N |

- Cast in premium gold alloy after customization
- Cylinder melting point: 1400-1450° C (may vary with casting machine)
- Uses 1,2 Hex Driver
- Package Contents: Cylinder + Cylinder Screw
- Tightening Torque: 20 Ncm

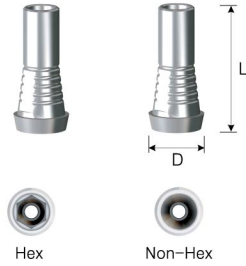
Plastic Cylinder



| Type \ D | Ø5.0 |
|----------|------------|
| Hex | APN 40514 |
| Non-Hex | APN 40514N |

- Cast in premium gold alloy after customization
- Less precise than the gold cylinder
- Uses 1,2 Hex Driver
- Package Contents: Cylinder + Cylinder Screw
- Tightening Torque: 20 Ncm

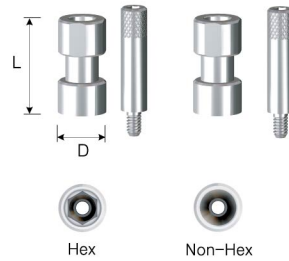
Temporary Cylinder



| | | |
|----------|-----------|------------|
| D | Ø5.4 | |
| L \ Type | Hex | Non-Hex |
| 12 | TCN 40512 | TCN 40512N |

- For fabricating temporary prosthetics on top of Conical Abutments
- Simple customization
- Minimizes restriction while in use
- Uses 1,2 Hex Driver
- Package Contents: Cylinder + Cylinder Screw
- Tightening Torque: 20 Ncm

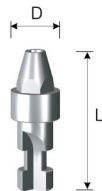
Pick-up Impression Coping



| | | |
|----------|-----------|------------|
| D | Ø4.8 | |
| L \ Type | Hex | Non-Hex |
| 9.4 | IPN 40510 | IPN 40510N |

- Create final impression of Conical Abutment on impression coping
- For use with pick-up type custom trays
- Package Contents: Impression Coping + Guide Pin

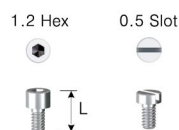
Conical Abutment Analog



| | |
|-------|-----------|
| L \ D | Ø4.8 |
| 14 | RCN 40414 |

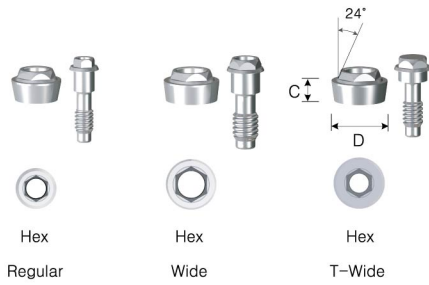
- Provides anchor point for Conical Abutment
- Package Contents: Analog

Cylinder Screw



| | | |
|----------|----------|----------|
| L \ Type | 1.2 Hex | 0.5 Slot |
| 4.3 | SHN 1404 | - |
| 3.7 | - | SSN 1404 |

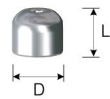
Conical Abutment



| D | Ø4.8 | Ø5.5 | |
|---------|-----------|-----------|-----------|
| C / F/P | Ø4.1 | Ø5.1 | Ø5.0 |
| 1 | ACN 40512 | ACN 50612 | ACT 50612 |
| 2 | ACN 40523 | ACN 50623 | ACT 50623 |
| 3 | ACN 40534 | ACN 50634 | ACT 50634 |
| 4 | ACN 40545 | ACN 50645 | ACT 50645 |

- For fabricating temporary prosthetics on top of Conical Abutments
- Simple customization
- Minimizes restriction while in use
- Uses 1,2 Hex Driver
- Package Contents: Cylinder + Cylinder Screw
- Tightening Torque: 35Ncm

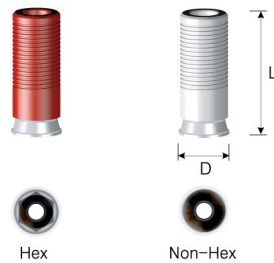
Healing Cap



| L / D | Ø5.0 | Ø5.8 |
|-------|-----------|-----------|
| 4.5 | HCN 40504 | - |
| 4.6 | - | HCN 50604 |

- Create final impression of Conical Abutment on impression coping
- For use with pick-up type custom trays
- Package Contents: Impression Coping + Guide Pin

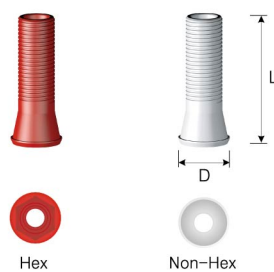
Gold Cylinder



| D | Ø5.0 | Ø6.0 |
|----------|------------|------------|
| Type / L | 12 | 12 |
| Hex | AGN 40504 | AGN 50604 |
| Non-Hex | AGN 40504N | AGN 50604N |

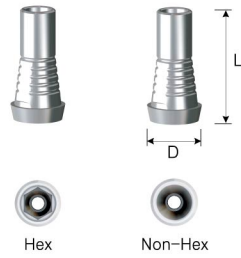
- Provides anchor point for Conical Abutment
- Package Contents: Analog

Plastic Cylinder



| D | Ø5.0 | Ø6.0 |
|----------|-------------|------------|
| Type / L | 13 | 13 |
| Hex | APN 40514S | APN 50614 |
| Non-Hex | APN 40514SN | APN 50614N |

Temporary Cylinder



| D | Ø5.4 | Ø6.0 |
|----------|------------|------------|
| Type \ L | 11 | 11 |
| Hex | TCN 40511 | TCN 50611 |
| Non-Hex | TCN 40511N | TCN 50611N |

- For fabricating temporary prosthetics on top of Conical Abutments
- Simple customization
- Minimizes restriction while in use
- Uses 1,2 Hex Driver
- Package Contents: Cylinder + Cylinder Screw
- Tightening Torque: 20 Ncm

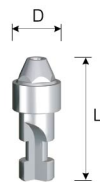
Pick-up Impression Coping



| D | Ø4.8 | Ø5.5 |
|----------|------------|------------|
| Type \ L | 8.0 | 8.0 |
| Hex | IPN 40508 | IPN 50608 |
| Non-Hex | IPN 40508N | IPN 50608N |

- Create final impression of Conical Abutment on impression coping
- For use with pick-up type custom trays
- Package Contents: Impression Coping + Guide Pin

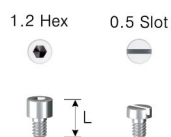
Conical Abutment Analog



| L \ D | Ø4.8 | Ø5.5 |
|-------|-----------|-----------|
| 12 | RCN 40412 | RCN 50512 |

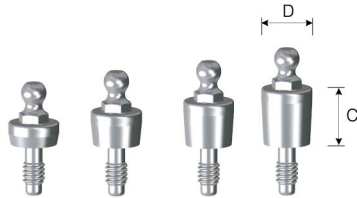
- Provides anchor point for Conical Abutment
- Package Contents: Analog

Cylinder Screw



| L \ Type | M1.4 | M2.0 |
|----------|----------|----------|
| 4.3 | SHN 1403 | SHN 2003 |
| 3.7 | SSN 1403 | SSN 2003 |

Ball Abutment



| C \ D | Ø4.5 |
|-------|-----------|
| 2 | ABN 40502 |
| 3 | ABN 40503 |
| 4 | ABN 40504 |
| 5 | ABN 40505 |

- Used in conjunction with ball type overdenture prosthetic fabrication
- O-Ring Types
 - Black: Laboratory type
 - Orange: Clinical type
- Uses O-Ring for ball retention
- Up to a 20° compensation
- Uses ball abutment driver
- Package Contents: Abutment + O-Ring
- Tightening Torque: 30 Ncm

Ball Abutment Analog



| L \ D | Ø4.1 |
|-------|-----------|
| 12 | RBN 40412 |

- Provides anchor point for ball abutment on working model
- Package Contents: Analog

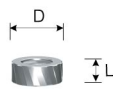
Dalbo Plus



| | Regular |
|------|----------|
| Code | DBPM 201 |

- Titanium housing with 2 stage construction
- Rated for up to 10,000 uses with minimum abrasion to the ball abutment and to the insert
- Simple and convenient retention
- Up to 20° in insertion angle flexibility
- Compatible with all DIO Implant systems

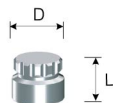
Retainer



| L \ D | Ø5.0 |
|-------|---------|
| 2 | RT 0502 |

- Package Contents: Retainer + O-Ring

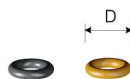
Ball Cap



| L \ D | Ø5.0 |
|-------|---------|
| 4 | BC 5004 |

- Superior retention and removability
- Package Contents: Ball Cap + O-Ring

O-Ring



| Type \ D | Ø4.5 |
|----------|----------|
| Black | OR 0450B |
| Orange | OR 0450O |

- Black: Laboratory used for fabrications with high retention
- Orange: For clinical use (over 6 Ncm)
- Package Contents: O-Ring (1 piece)

Locator

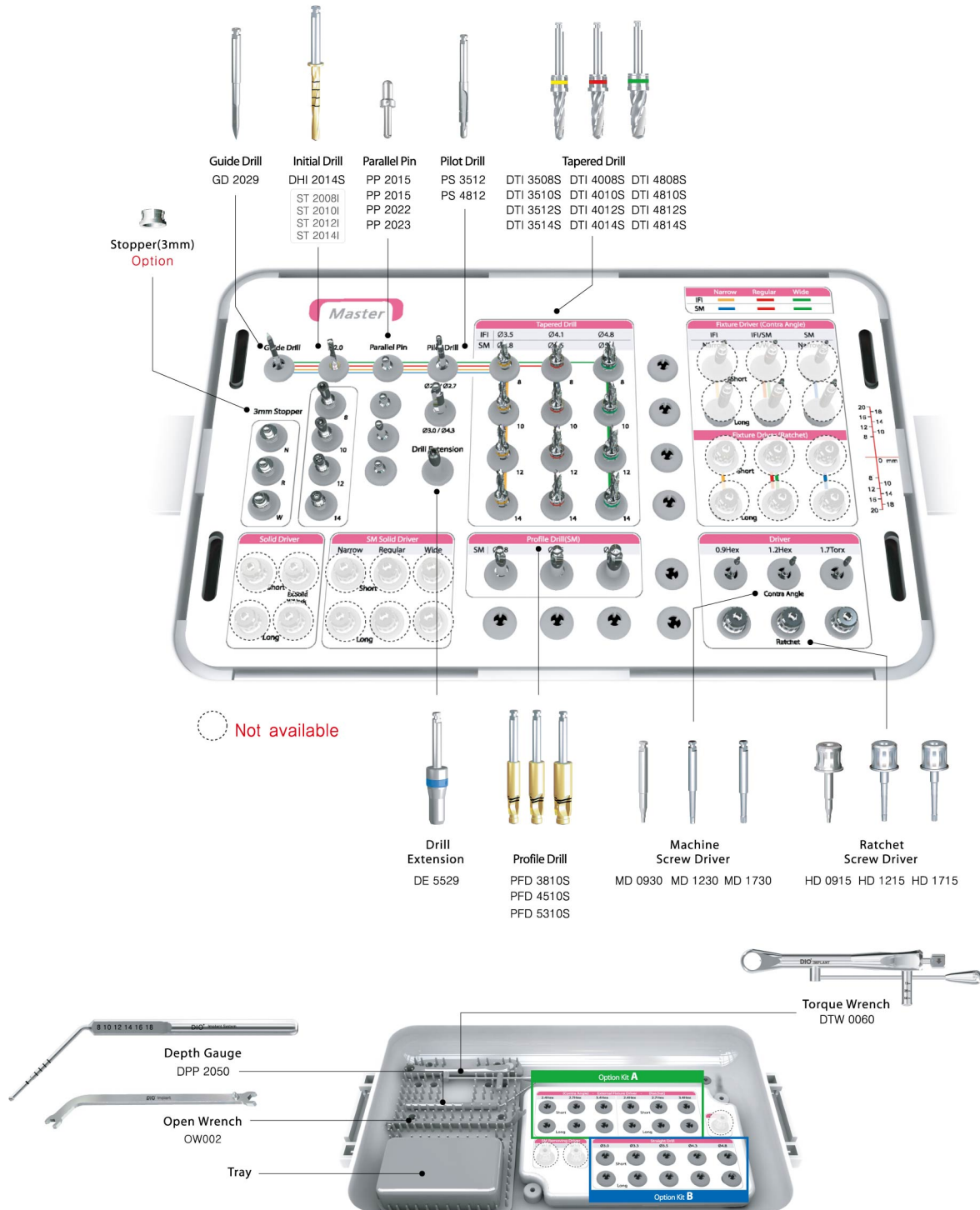


| Cuff \ D | Narrow | Regular | Wide/T-Wide |
|----------|----------|----------|-------------|
| 0.73 | LOC 8105 | LOC 8681 | LOC 8825 |
| 2 | LOC 8106 | LOC 8682 | LOC 8826 |
| 3 | LOC 8107 | LOC 8683 | LOC 8827 |
| 4 | LOC 8108 | LOC 8684 | LOC 8828 |
| 5 | LOC 8109 | LOC 8696 | LOC 8829 |

- Angled male adjustable even under extreme abutment angle (up to 40°)
- Lowest perpendicular angle
- Simple and precise denture mounting
- Wide variety of males; Great retention

Master Surgical Kit

SM Implant System(SM-External)



External System

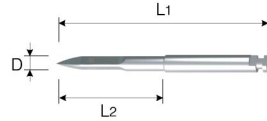
Master KIT Option

| | | |
|---|--|--|
| Option Kit A | Fixture Driver for Contra Angle | Fixture Driver for Ratchet Wrench |
| | HGC 3524 HGC 4024 HGC 5024 HGC 3530 HGC 4030 HGC 5030 | HGW 3513 HGW 4013 HGW 5013 HGW 3521 HGW 4021 HGW 5021 |
| Option Kit B *Choose No.1(PSI) or No.2(FSN) | Straight Drill 1. For PSI Implant(Internal) | Straight Drill 2. For FSN Implant(External) |
| | SDS 3010A SDS 3310A SDS 3510A SDS 4310A SDS 4810A SDS 3014A SDS 3314A SDS 3514A SDS 4314A SDS 4814A | SDS 3010B SDS 3310B SDS 3510B SDS 4310B SDS 4810B SDS 3015B SDS 3315B SDS 3515B SDS 4315B SDS 4815B |
| Option Kit C | Option Kit A + Option Kit B | |

Surgical Instruments

SM Implant System(SM-External)

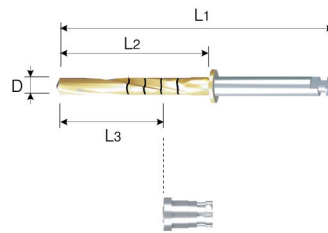
Guide Drill



| L1/L2 | D | |
|-------|---|---------|
| | | Ø2.0 |
| 25/11 | | GD 2025 |
| 29/15 | | GD 2029 |

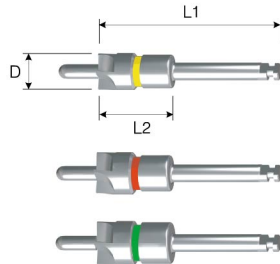
- Used for drilling initial hole in bone tissue
- Bone density ascertainable during drilling

Initial Drill



| | |
|------|-----------|
| D | Ø2.0 |
| L1 | 33.2 |
| L2 | 18 |
| Code | DHI 2014S |
| L3 | Stopper |
| 8 | ST 2008I |
| 10 | ST 2010I |
| 12 | ST 2012I |
| 14 | ST 2014I |

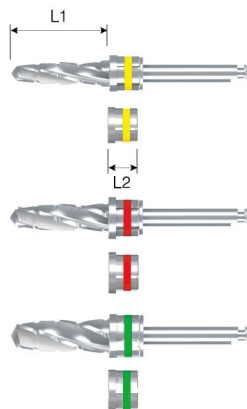
Bone Planer



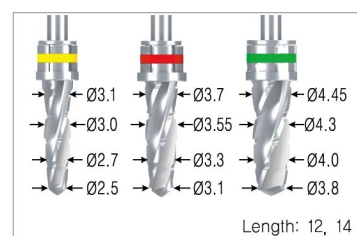
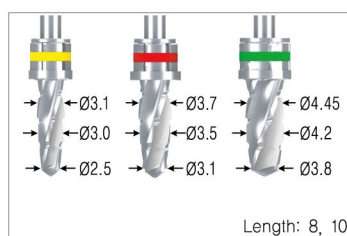
| L1/L2 | D | Ø4.95 | Ø5.65 | Ø5.9 |
|---------|---|---------|---------|---------|
| 24.5/10 | | BP 5010 | BP 5710 | BP 5910 |

- Creates a flat surface on bone
- Extracts desired bone with bone planer after initial drilling
- Handpiece speed: 400-600 rpm

Tapered Drill



| L1 | Fixture Dia. | Ø3.5 | Ø4.0 | Ø4.8 |
|----|--------------|-----------|-----------|-----------|
| 8 | | DTI 3508S | DTI 4008S | DTI 4808S |
| 10 | | DTI 3510S | DTI 4010S | DTI 4810S |
| 12 | | DTI 3512S | DTI 4012S | DTI 4812S |
| 14 | | DTI 3514S | DTI 4014S | DTI 4814S |
| L2 | | Stopper | | |
| 4 | | ST 3500I | ST 4000I | ST 4800I |
| 3 | | ST 3501I | ST 4001I | ST 4801I |



Surgical Instruments

SM Implant System(SM-External)

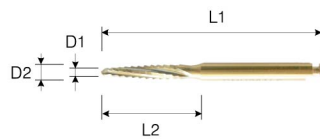
Drill Extension



| | |
|------|---------|
| L | Solid |
| 29.7 | DE 5529 |

- Provides extra length for drills used with handpieces
- Connects to the flat surface of the drill shank
- Resolves excess torque

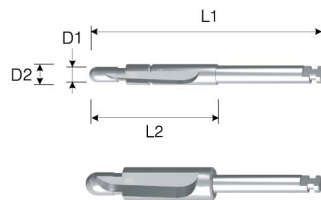
Lindemann Drill



| | | |
|-------|-------|-----------|
| L1/L2 | D1/D2 | Ø1.4/Ø2.0 |
| 30/14 | | RMH 2014S |

- Provides drill direction adjustment
- Useful in site preparation and ridge reduction in extractions

Pilot Drill

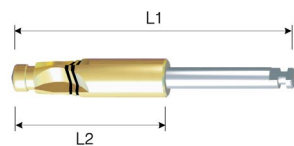


| | | |
|-------|-------|-----------|
| L1/L2 | D1/D2 | Ø2.0/Ø2.7 |
| 31/17 | | PS 3512 |

| | | |
|-------|-------|-----------|
| L1/L2 | D1/D2 | Ø3.0/Ø4.3 |
| 31/17 | | PS 4812 |

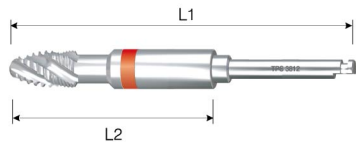
- Creates a path for drilling hole
- Creates accurate guide holes for the next step in surgical extraction

Profile Drill



| | | | | |
|-----------|--------------|-----------|-----------|-----------|
| L1/L2 | Fixture Dia. | Ø3.8 | Ø4.5 | Ø5.3 |
| 26.3/12.3 | | PFD 3805S | PFD 4505S | PFD 5305S |
| 31.3/17.3 | | PFD 3810S | PFD 4510S | PFD 5310S |
| 36.3/22.3 | | PFD 3815S | PFD 4515S | PFD 5315S |

Tap Drill



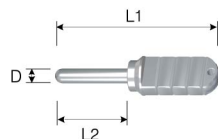
| | | | | | | |
|-----------|--------------|----------|----------|----------|----------|----------|
| L1/L2 | Fixture Dia. | Ø3.8 | Ø4.1 | Ø4.5 | Ø5.0 | Ø5.3 |
| 36.2/20.2 | | TPS 3812 | TPS 4112 | TPS 4512 | TPS 5012 | TPS 5312 |
| 41.2/25.2 | | TPS 3817 | TPS 4117 | TPS 4517 | TPS 5017 | TPS 5317 |

Tap Adapter



| | | |
|---|-----|-----------|
| L | 5 | TAPA 3011 |
| | 9.5 | TAPA 3016 |

Positioning Guide



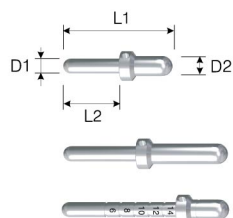
| | | |
|-------|---|---------|
| L1/L2 | D | Ø2.0 |
| 22/10 | | PG 0050 |

- Marks space between fixtures
- Used after initial drilling

Surgical Instruments

SM Implant System(SM-External)

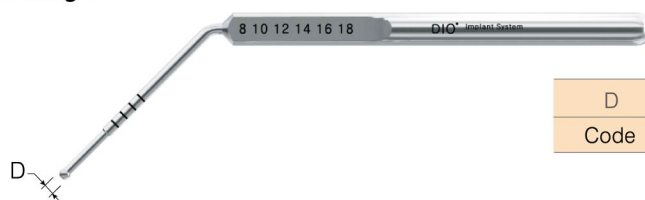
Parallel Pin



| L1/L2 | D1/D2 | |
|-------|-------|-----------|
| | | Ø2.0/Ø2.7 |
| 15/8 | | PP 2015 |
| 22/10 | | PP 2022 |
| 23/16 | | PP 2023 |

- Provides location and direction of site preparation
- Indicates the diameter of abutment and height of its collar
- Drill site depth survey
- Package Contents: Available as a part of a set or individual packaging

Depth Gauge



| | |
|------|----------|
| D | Ø2.0 |
| Code | DPP 2050 |

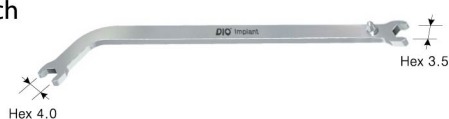
Torque Wrench



| | |
|------|----------|
| Code | DTW 0060 |
|------|----------|

- Used in fixture implantation or screw repair
- Torque values (0, 15, 35, 50 Ncm) laser etched into the handle
- Convenient disassembly for easy cleaning

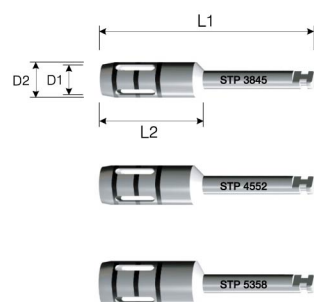
Open Wrench



| | |
|------|--------|
| Code | OW 002 |
|------|--------|

- Used in removing mounts from weak bone tissue
- 30° neck angle for maximum comfort and ease of use

Tissue Punch

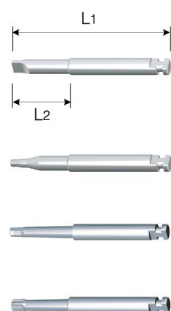


| L1/L2 | D1/D2 | |
|-------|-------|-------------------------|
| | | Ø3.8(Inner)/Ø4.5(Outer) |
| 27/13 | | STP 3845 |

| L1/L2 | D1/D2 | |
|-------|-------|-------------------------|
| | | Ø4.5(Inner)/Ø5.2(Outer) |
| 27/13 | | STP 4552 |

| L1/L2 | D1/D2 | |
|-------|-------|-------------------------|
| | | Ø5.3(Inner)/Ø5.8(Outer) |
| 27/13 | | STP 5358 |

Machine Screw Driver



| Type | L1/L2 | Code |
|----------|-------|---------|
| 0.5 Slot | 22/8 | MD 0522 |
| | 30/16 | MD 0530 |
| 0.9 Hex | 22/8 | MD 0922 |
| | 30/16 | MD 0930 |
| 1.2 Hex | 22/8 | MD 1222 |
| | 30/16 | MD 1230 |
| 1.7 Torx | 22/8 | MD 1722 |
| | 30/16 | MD 1730 |

Surgical Instruments

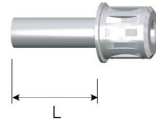
SM Implant System(SM-External)

Ratchet Screw Driver



| Type | L | Code |
|----------|----|---------|
| 0.5 Slot | 10 | HD 0510 |
| | 15 | HD 0515 |
| 0.9 Hex | 10 | HD 0910 |
| | 15 | HD 0915 |
| | 20 | HD 0920 |
| 1.2 Hex | 5 | HD 1205 |
| | 10 | HD 1210 |
| | 15 | HD 1215 |
| | 20 | HD 1220 |
| 1.7 Torx | 10 | HD 1710 |
| | 15 | HD 1715 |
| | 20 | HD 1720 |

Ball Abutment Driver



| L | Code |
|----|---------|
| 6 | HD 2406 |
| 12 | HD 2412 |

Fixture Driver for Contra Angle



| Hex | 2.4 | 2.7 | 3.4 |
|-----------|----------|----------|----------|
| L1/L2 \ D | Ø3.5 | Ø4.1 | Ø5.0 |
| 24/10 | HGC 3524 | HGC 4024 | HGC 5024 |
| 30/16 | HGC 3530 | HGC 4030 | HGC 5030 |
| 35/21 | HGC 3535 | HGC 4035 | HGC 5035 |

Fixture Driver for Ratchet Wrench



| Hex | 2.4 | 2.7 | 3.4 |
|-------|----------|----------|----------|
| L \ D | Ø3.5 | Ø4.1 | Ø5.0 |
| 7 | HGW 3513 | HGW 4013 | HGW 5013 |
| 15 | HGW 3521 | HGW 4021 | HGW 5021 |
| 19 | HGW 3525 | HGW 4025 | HGW 5025 |

Surgical Instruments

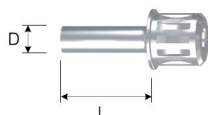
SM Implant System(SM-External)

Fixture Mount Driver



| Hex | 2.4 | 2.7 | 3.4 |
|-------|----------|----------|----------|
| L \ D | Ø3.5 | Ø4.1 | Ø5.0 |
| 12 | HMD 3512 | HMD 4012 | HMD 5012 |
| 18 | HMD 3518 | HMD 4018 | HMD 5018 |
| 23 | HMD 3523 | HMD 4023 | HMD 5023 |

Ratchet Conical Abutment Screw Driver



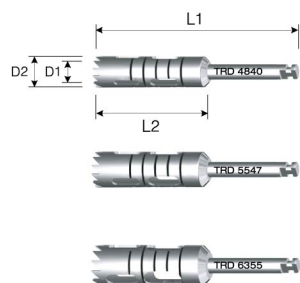
| L \ D | 2.0 Int. Hex | 2.7 Int. Hex |
|-------|--------------|--------------|
| 12 | HD 2012 | HD 2712 |

Path Pin



| L \ D | Ø3.5 | Ø4.0 | Ø5.1 |
|-------|----------|----------|----------|
| 9 | PPE 3509 | PPE 4009 | PPE 5009 |

Trepine Drill



| L1/L2 \ D1/D2 | Ø4.0(Inner)/Ø4.8(Outer) |
|---------------|-------------------------|
| 32/18 | TRD 4840 |

| L1/L2 \ D1/D2 | Ø4.7(Inner)/Ø5.5(Outer) |
|---------------|-------------------------|
| 32/18 | TRD 5547 |

| L1/L2 \ D1/D2 | Ø5.5(Inner)/Ø6.3(Outer) |
|---------------|-------------------------|
| 32/18 | TRD 6355 |

Ratchet Wrench

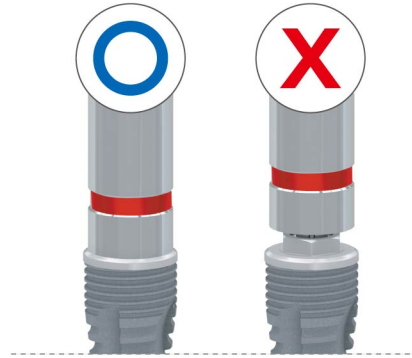


| | |
|------|---------|
| Code | DRW 050 |
|------|---------|

Site Preparation

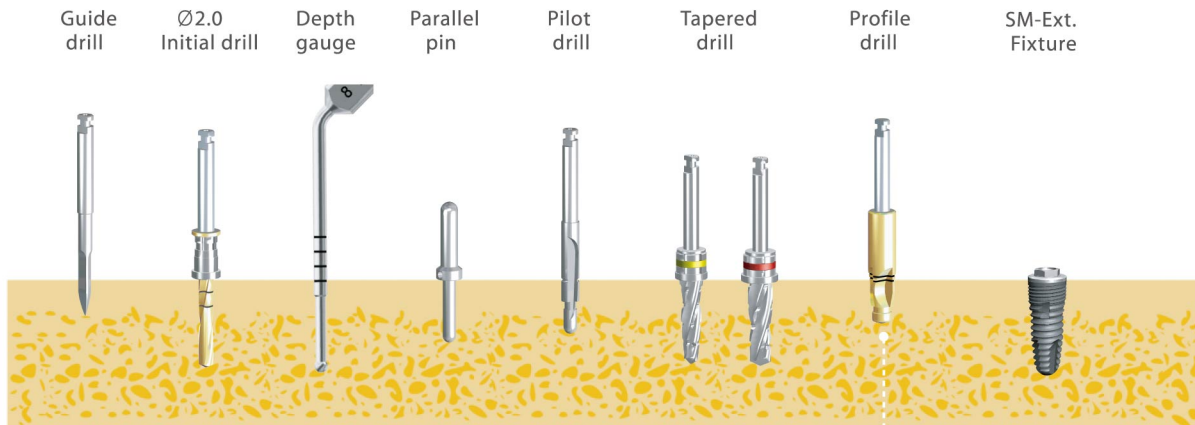
Fixture Driver

Instructions for proper fixture driver use
Remove driver from fixture only after adhesion



Site Preparation

SM-External Fixture / Ø4.5mm(Length: 12mm)

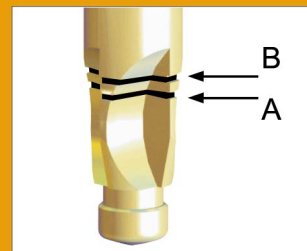


Profile drill

Used to shape top of fixture (Straight & Taper shape)

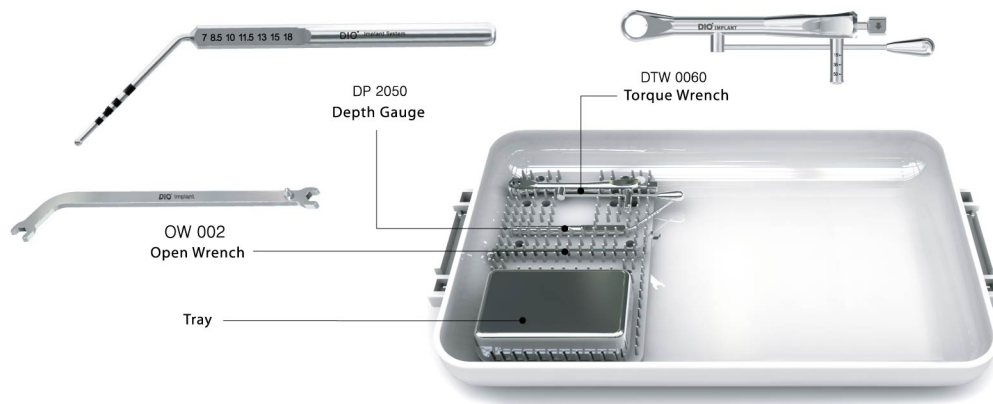
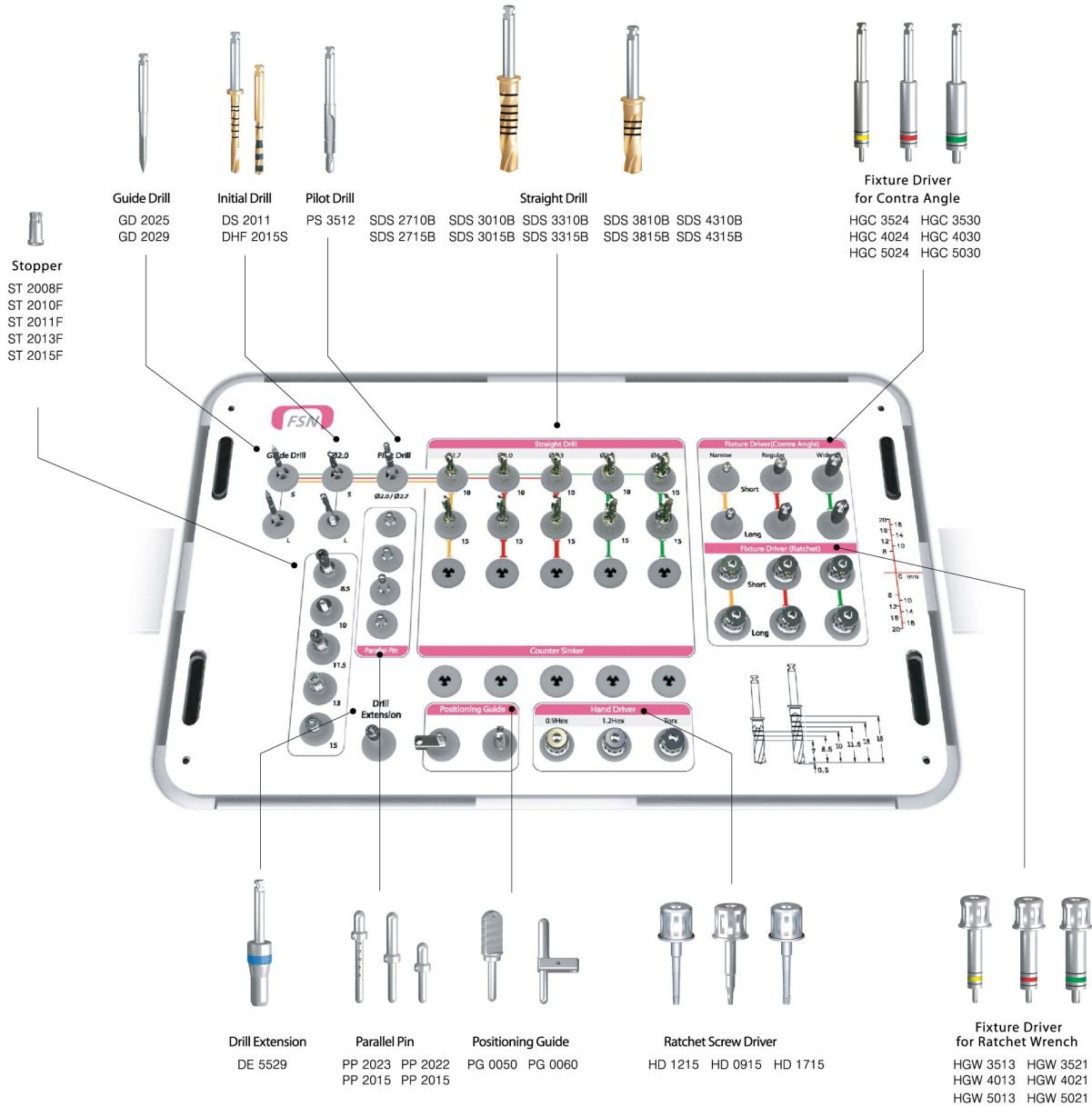
Insertion depth: Drilling depth is determined by bone tissue.
Drills up to B depth in case of D1/D2 bone.
Tap drill is recommended in cases where the D1 bone tissue is resistant.
Drills up to A depth in case of D2/D3 bone.
Profile drill is not recommended in cases where the D4 bone tissue is weak.

This drill is designed to prevent excess torque
Implant depth is adjustable



FSN Surgical Kit

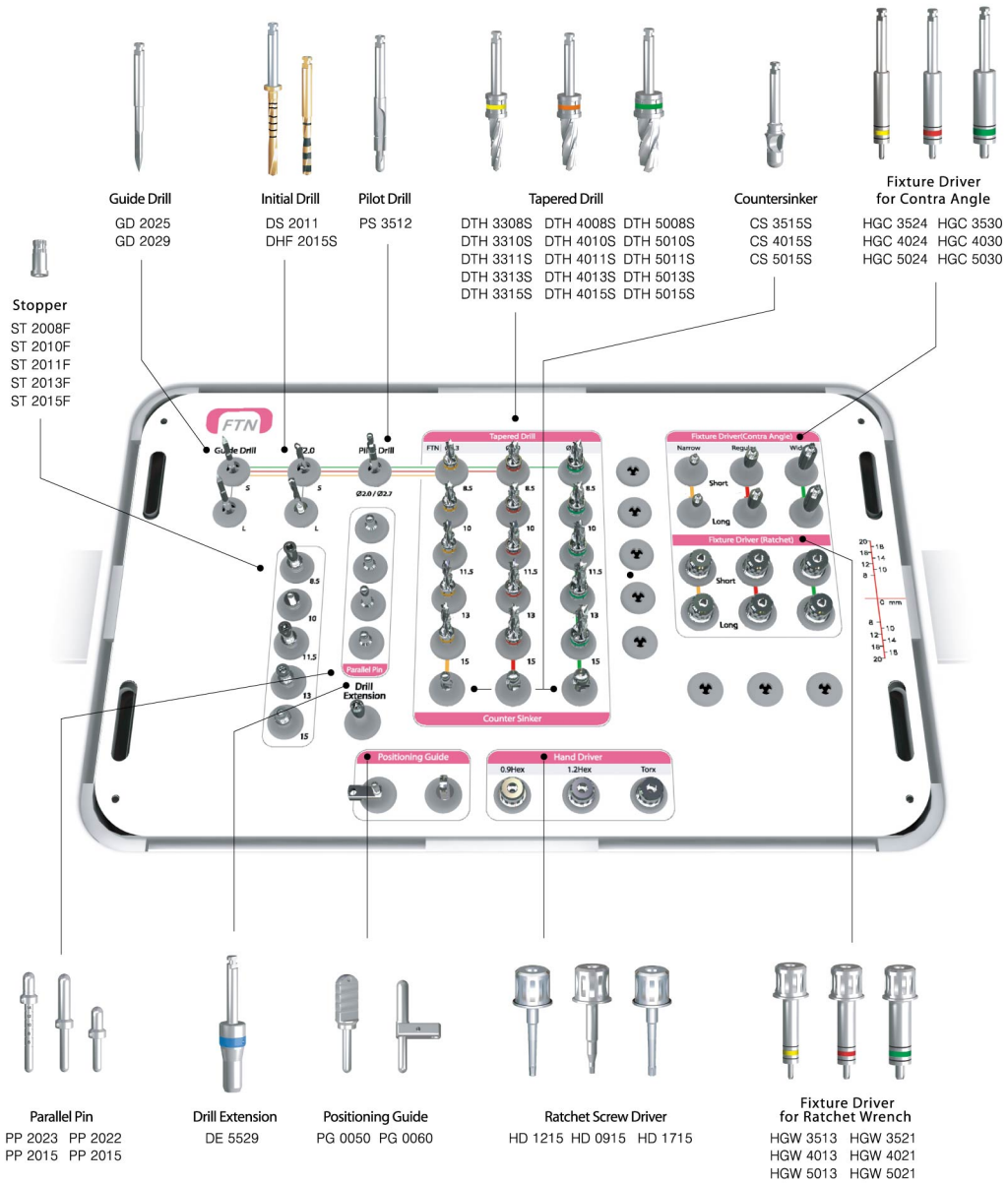
External Implant System(FSN)



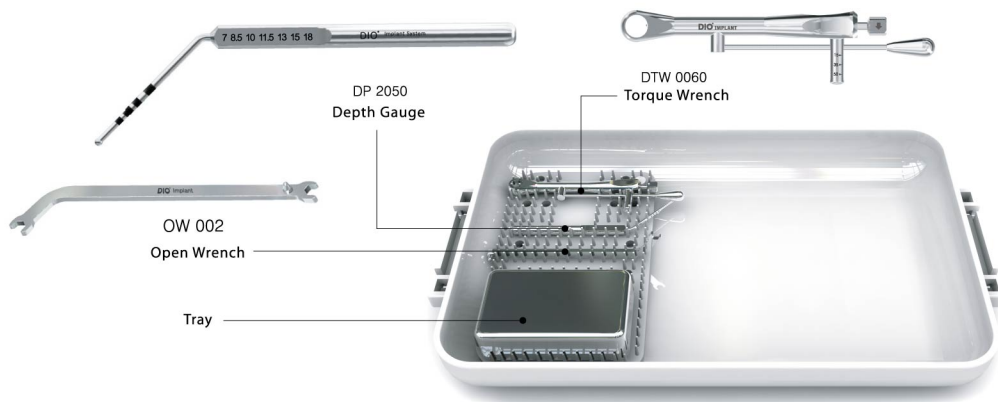
External System

FTN Surgical Kit

External Implant System(FTN)



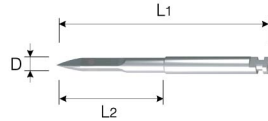
External System



Surgical Instruments

External Implant System(FSN/FTN)

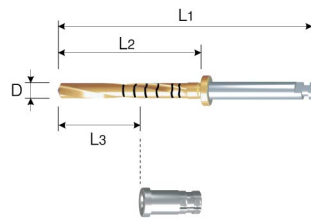
Guide Drill



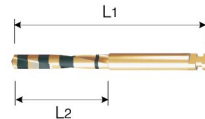
| L1/L2 | D | |
|-------|------|---------|
| 25/11 | Ø2.0 | GD 2025 |
| 29/15 | Ø2.0 | GD 2029 |

- Used for drilling initial hole in bone tissue
- Bone density ascertainable during drilling

Initial Drill

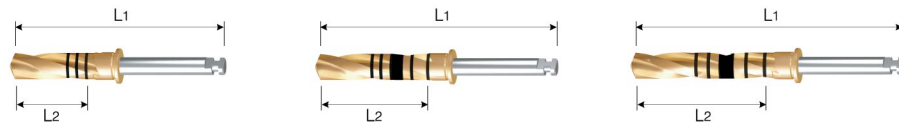


| | |
|------|-----------|
| D | Ø2.0 |
| L1 | 34 |
| L2 | 19 |
| Code | DHF 2015S |
| L3 | Stopper |
| 8.5 | ST 2008F |
| 10 | ST 2010F |
| 11.5 | ST 2011F |
| 13 | ST 2013F |
| 15 | ST 2015F |



| L1/L2 | D | |
|---------|------|---------|
| 27.5/13 | Ø2.0 | DS 2011 |

Straight Drill FSN



| L1/L2 | D | Ø2.7 | Ø3.0 | Ø3.3 | Ø3.5 | Ø3.8 | Ø4.3 | Ø4.8 |
|-------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 24/10 | | SDS 2710B | SDS 3010B | SDS 3310B | SDS 3510B | SDS 3810B | SDS 4310B | SDS 4810B |
| 29/15 | | SDS 2715B | SDS 3015B | SDS 3315B | SDS 3515B | SDS 3815B | SDS 4315B | SDS 4815B |
| 32/18 | | SDS 2718B | SDS 3018B | SDS 3318B | SDS 3518B | SDS 3818B | SDS 4318B | SDS 4818B |

Tapered Drill FTN



| L1 | Code | | |
|------|-----------|-----------|-----------|
| 8.7 | DTH 3308S | DTH 4008S | DTH 5008S |
| 10.2 | DTH 3310S | DTH 4010S | DTH 5010S |
| 11.7 | DTH 3311S | DTH 4011S | DTH 5011S |
| 13.2 | DTH 3313S | DTH 4013S | DTH 5013S |
| 15.2 | DTH 3315S | DTH 4015S | DTH 5015S |
| L2 | Stopper | | |
| 4 | ST 3300F | ST 4000F | ST 5000F |

Surgical Instruments

External Implant System(FSN/FTN)

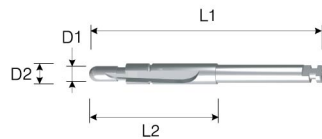
Drill Extension



| L | Code |
|----|---------|
| 29 | DE 5529 |

- Provides extra length for drills used with handpieces
- Connects to the flat surface of the drill shank
- Resolves excess torque

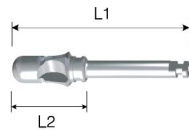
Pilot Drill



| L1/L2 | D1/D2 | Code |
|-------|-------|----------------------|
| 31/17 | | Ø2.0/Ø2.7 PS 3512 |

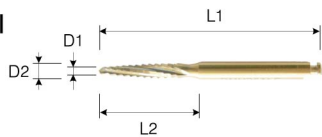
- Creates a path for drilling hole
- Creates accurate guide holes for the next step in surgical extraction

Countersinker



| L1/L2 | Code | | |
|-------|----------|----------|----------|
| 24/10 | CS 3510S | CS 4010S | CS 5010S |
| 29/15 | CS 3515S | CS 4015S | CS 5015S |
| 34/20 | CS 3520S | CS 4020S | CS 5020S |

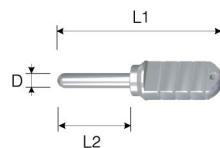
Lindemann Drill



| L1/L2 | D1/D2 | Code |
|-------|-------|------------------------|
| 30/14 | | Ø1.4/Ø2.0 RMH 2014S |

- Provides drill direction adjustment
- Useful in site preparation and ridge reduction in extractions

Positioning Guide



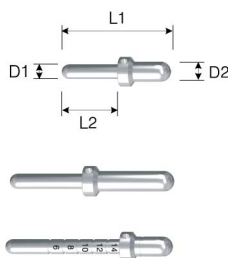
| L1/L2 | D | Code |
|-------|------|---------|
| 22/10 | Ø2.0 | PG 0050 |



| L | D | Code |
|---|------|---------|
| 7 | Ø2.0 | PG 0060 |

- Marks space between fixtures
- Used after initial drilling

Parallel Pin



| L1/L2 | D1/D2 | Code |
|-------|-------|----------------------|
| 15/8 | | Ø2.0/Ø2.7 PP 2015 |
| 22/10 | | PP 2022 |
| 23/16 | | PP 2023 |

- Provides location and direction of site preparation
- Indicates the diameter of abutment and height of its collar
- Drill site depth survey
- Package Contents: Available as a part of a set or individual packaging

Surgical Instruments

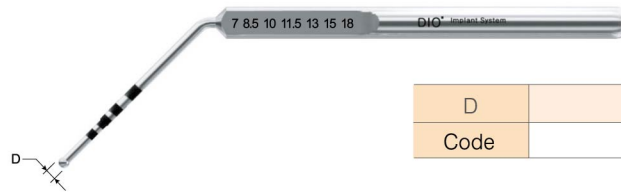
External Implant System(FSN/FTN)

Path Pin



| L \ D | Ø3.5 | Ø4.0 | Ø5.1 |
|-------|----------|----------|----------|
| 9 | PPE 3509 | PPE 4009 | PPE 5009 |

Depth Gauge



| | |
|------|---------|
| D | Ø2.0 |
| Code | DP 2050 |

Torque Wrench



| | |
|------|----------|
| Code | DTW 0060 |
|------|----------|

- Used in fixture implantation or screw repair
- Torque values (0, 15, 35, 50 Ncm) laser etched into the handle
- Convenient disassembly for easy cleaning

Open Wrench



| | |
|------|--------|
| Code | OW 002 |
|------|--------|

- Used in removing mounts from weak bone tissue
- 30° neck angle for maximum comfort and ease of use

Fixture Driver for Contra Angle



| Hex | 2.4 | 2.7 | 3.4 |
|-----------|----------|----------|----------|
| L1/L2 \ D | Ø3.5 | Ø4.1 | Ø5.0 |
| 24/10 | HGC 3524 | HGC 4024 | HGC 5024 |
| 30/16 | HGC 3530 | HGC 4030 | HGC 5030 |
| 35/21 | HGC 3535 | HGC 4035 | HGC 5035 |

Surgical Instruments

External Implant System(FSN/FTN)

Fixture Driver for Ratchet Wrench



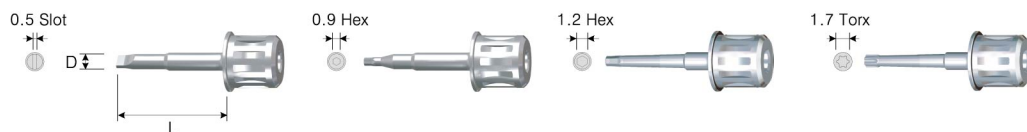
| Hex | 2.4 | 2.7 | 3.4 |
|-------|----------|----------|----------|
| L \ D | Ø3.5 | Ø4.1 | Ø5.0 |
| 7 | HGW 3513 | HGW 4013 | HGW 5013 |
| 15 | HGW 3521 | HGW 4021 | HGW 5021 |
| 19 | HGW 3525 | HGW 4025 | HGW 5025 |

Fixture Mount Driver



| Hex | 2.4 | 2.7 | 3.4 |
|-------|----------|----------|----------|
| L \ D | Ø3.5 | Ø4.1 | Ø5.0 |
| 12 | HMD 3512 | HMD 4012 | HMD 5012 |
| 18 | HMD 3518 | HMD 4018 | HMD 5018 |
| 23 | HMD 3523 | HMD 4023 | HMD 5023 |

Ratchet Screw Driver

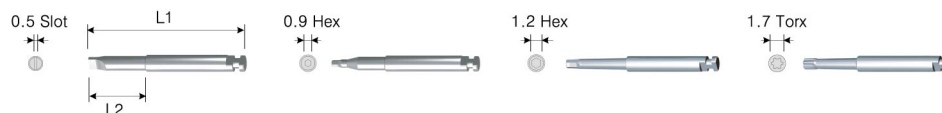


| L \ Type | 0.5 Slot | 0.9 Hex | 1.2 Hex | 1.7 Torx |
|----------|----------|---------|---------|----------|
| 5 | - | - | HD 1205 | - |
| 10 | HD 0510 | HD 0910 | HD 1210 | HD 1710 |
| 15 | HD 0515 | HD 0915 | HD 1215 | HD 1715 |
| 20 | - | HD 0920 | HD 1220 | HD 1720 |

Surgical Instruments

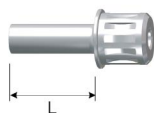
External Implant System(FSN/FTN)

Machine Screw Driver



| L1/L2 | Type | 0.5 Slot | 0.9 Hex | 1.2 Hex | 1.7 Torx |
|-------|------|----------|---------|---------|----------|
| 22/8 | | MD 0522 | MD 0922 | MD 1222 | MD 1722 |
| 30/16 | | MD 0530 | MD 0930 | MD 1230 | MD 1730 |

Conical Abutment Screw Driver



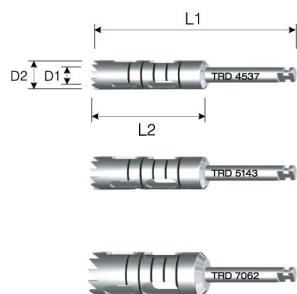
| L | D | 2.0 Int. Hex | 2.7 Int. Hex |
|----|---|--------------|--------------|
| 12 | | HD 2012 | HD 2712 |

Ball Abutment Driver



| L | Type | Int. 2.4 Hex |
|----|------|--------------|
| 6 | | HD 2406 |
| 12 | | HD 2412 |

Trephine Drill



| L1/L2 | D1/D2 | Ø4.0(Inner)/Ø4.8(Outer) |
|-------|-------|-------------------------|
| 32/18 | | TRD 4840 |

| L1/L2 | D1/D2 | Ø4.7(Inner)/Ø5.5(Outer) |
|-------|-------|-------------------------|
| 32/18 | | TRD 5143 |

| L1/L2 | D1/D2 | Ø5.5(Inner)/Ø6.3(Outer) |
|-------|-------|-------------------------|
| 32/18 | | TRD 7062 |

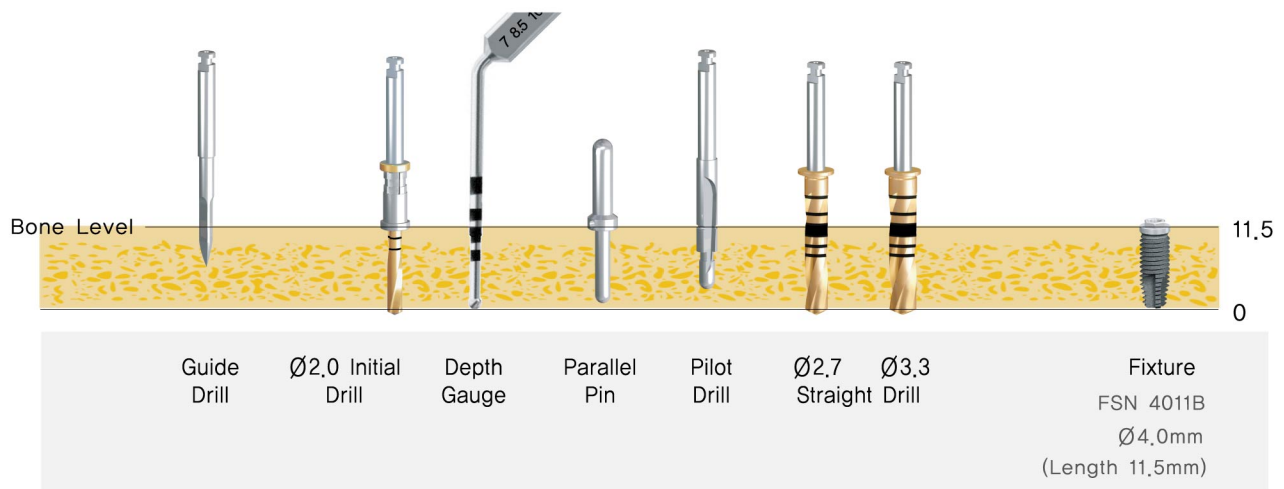
Ratchet Wrench



| Code | DRW 050 |
|------|---------|
|------|---------|

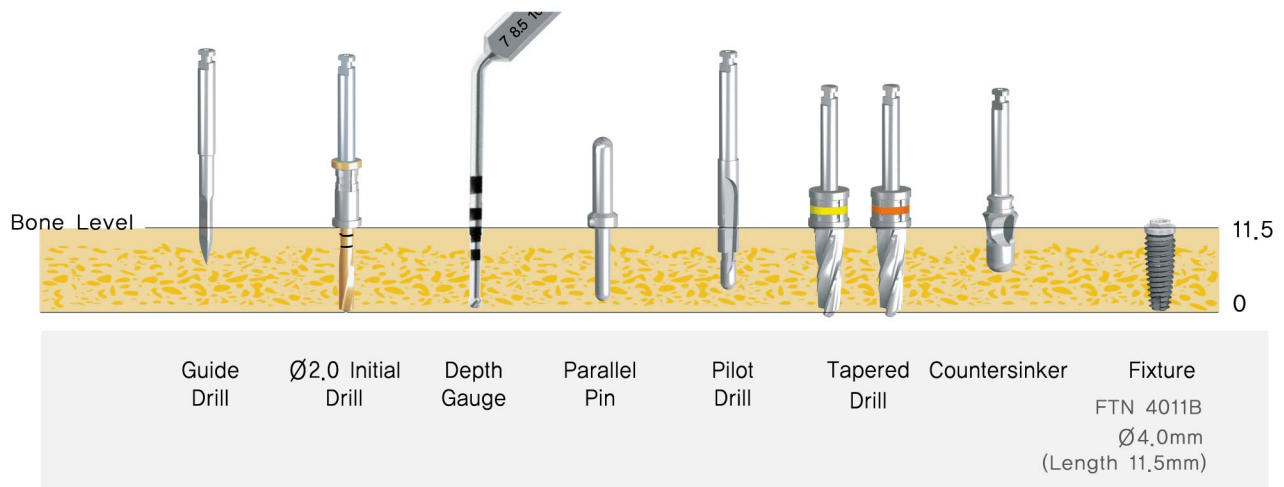
Site Preparation

FSN Fixture



External System

FTN Fixture

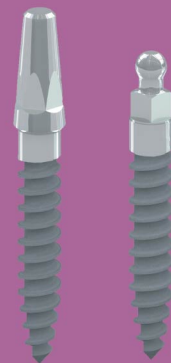




ProTem/Secure

Protem/Secure Implant System

Post / Ball Type

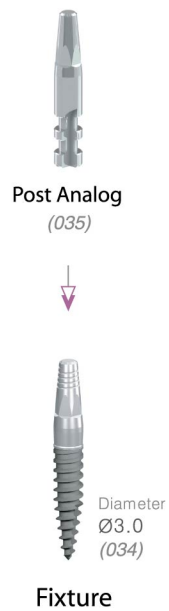
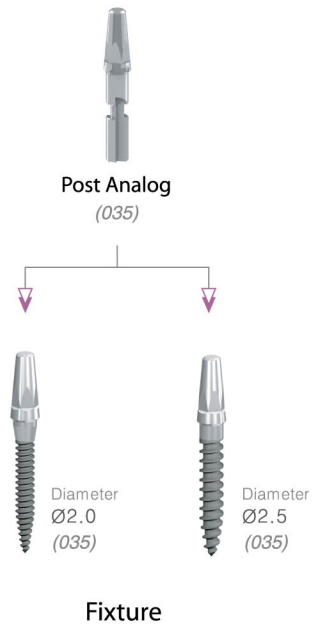


| | |
|---|-----|
| System Flowchart | 132 |
| Post Type | 134 |
| ProTem/Secure-H(Post) | 135 |
| Ball Type | 136 |
| ProTem/Secure-H(Ball) | 136 |
| Surgical Kit | |
| ProTem/Secure Surgical Kit / Site Preparation | 138 |
| Surgical Instruments | 138 |

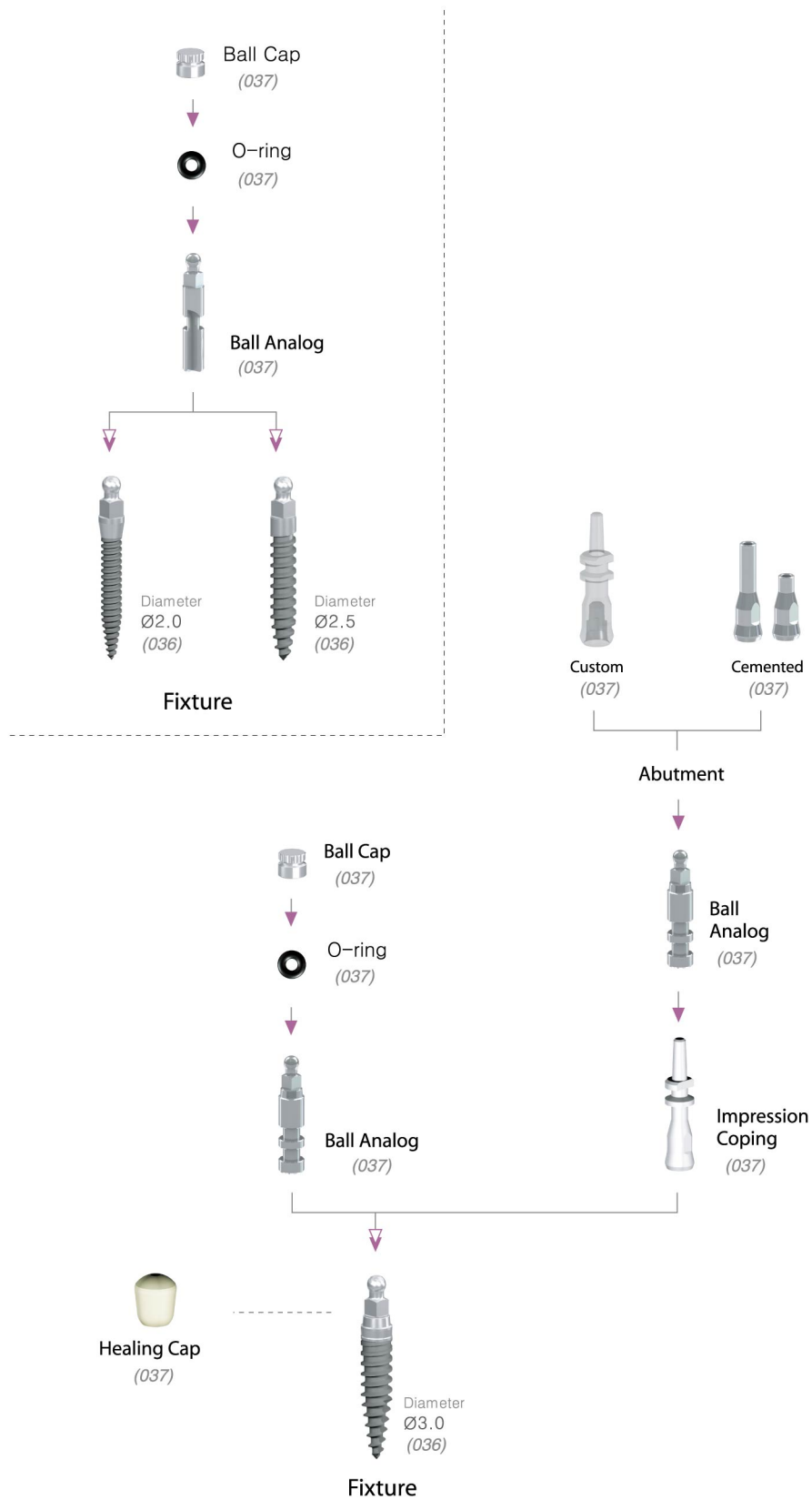
DIO IMPLANT SYSTEM

www.dioimplant.com

ProTem/Secure(Post) System Flowchart



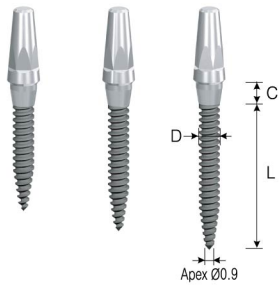
ProTem/Secure(Ball) System Flowchart



ProTem/Secure(Post) Fixture

- › Suitable for narrow spaces on the upper mandible
- › Single body Fixture and Abutment designed to withhold the stress of mastication
- › Highly bio-compatible RBM/Brushite(CaP) surface
- › Optimal abutment size and form to ensure successful implantation
- › Self-Tapping body design for secure initial entry and firm gripping power

*Secure Fixture is exported to the USA and is an FDA approved product

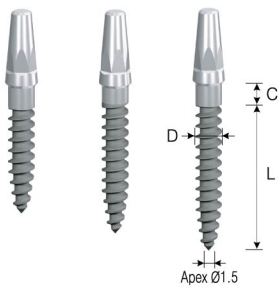


Length: 10

12

14

| Diameter | Ø2.0 | |
|----------|-----------|-----------|
| Pitch | 0.6 | |
| L \ C | 2 | 4 |
| 10 | MFP 20210 | MFP 20410 |
| 12 | MFP 20212 | MFP 20412 |
| 14 | MFP 20214 | MFP 20414 |

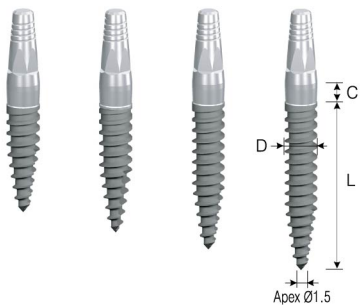


Length: 10

12

14

| Diameter | Ø2.5 | |
|----------|-----------|-----------|
| Pitch | 1 | |
| L \ C | 2 | 4 |
| 10 | MFP 25210 | MFP 25410 |
| 12 | MFP 25212 | MFP 25412 |
| 14 | MFP 25214 | MFP 25414 |



Length: 10

12

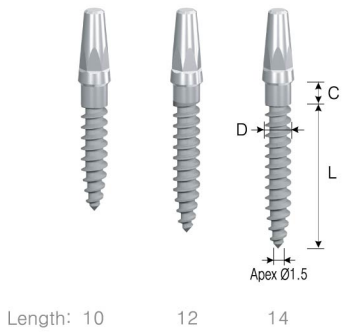
14

16

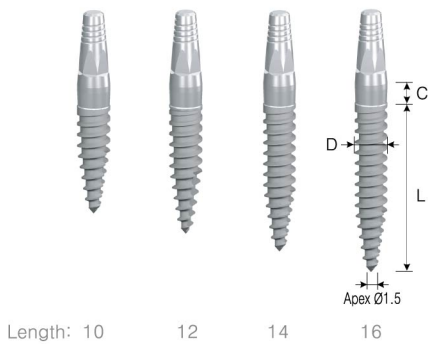
| Diameter | Ø3.0 | |
|----------|------------|------------|
| Pitch | 1 | |
| L \ C | 2 | 4 |
| 10 | MFP 30210A | MFP 30410A |
| 12 | MFP 30212A | MFP 30412A |
| 14 | MFP 30214A | MFP 30414A |
| 16 | MFP 30216A | MFP 30416A |

ProTem/Secure(Post) Fixture

Brushite(CaP)
Coated
"ProTem/Secure-H"

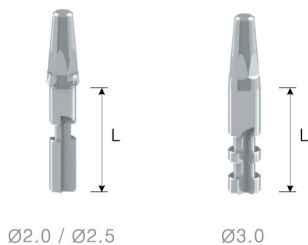


| Diameter | Ø2.5 | |
|----------|------------|------------|
| Pitch | 1 | |
| L \ C | 2 | 4 |
| 10 | MFP 25210H | MFP 25410H |
| 12 | MFP 25212H | MFP 25412H |
| 14 | MFP 25214H | MFP 25414H |



| Diameter | Ø3.0 | |
|----------|-------------|-------------|
| Pitch | 1 | |
| L \ C | 2 | 4 |
| 10 | MFP 30210AH | MFP 30410AH |
| 12 | MFP 30212AH | MFP 30412AH |
| 14 | MFP 30214AH | MFP 30414AH |
| 16 | MFP 30216AH | MFP 30416AH |

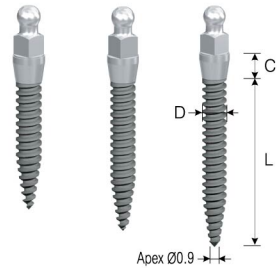
Post Analog



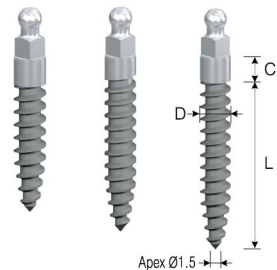
| L \ Fixture Dia. | Ø2.0 / Ø2.5 | Ø3.0 |
|------------------|-------------|----------|
| 10 | MAP 3010 | MAP 3017 |

- Provides anchor point for fabricating ProTem/Secure Implant Post
- Package Contents: Analog

ProTem/Secure(Ball) Fixture

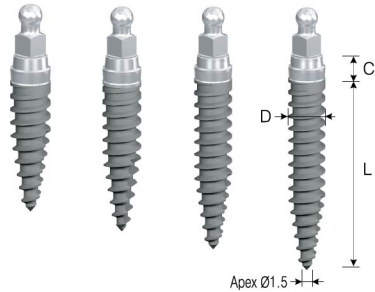


| Diameter | Ø2.0 | |
|----------|-----------|-----------|
| Pitch | 0.6 | |
| L \ C | 2 | 4 |
| 10 | MFB 20210 | MFB 20410 |
| 12 | MFB 20212 | MFB 20412 |
| 14 | MFB 20214 | MFB 20414 |



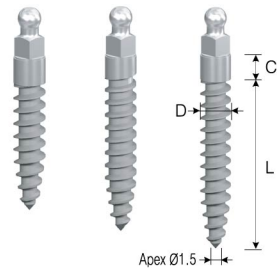
| Diameter | Ø2.5 | |
|----------|-----------|-----------|
| Pitch | 1 | |
| L \ C | 2 | 4 |
| 10 | MFB 25210 | MFB 25410 |
| 12 | MFB 25212 | MFB 25412 |
| 14 | MFB 25214 | MFB 25414 |

Length: 10 12 14



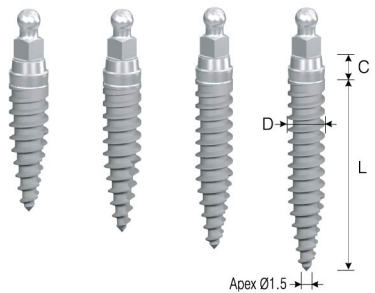
| Diameter | Ø3.0 | |
|----------|------------|------------|
| Pitch | 1 | |
| L \ C | 2 | 4 |
| 10 | MFB 30210A | MFB 30410A |
| 12 | MFB 30212A | MFB 30412A |
| 14 | MFB 30214A | MFB 30414A |
| 16 | MFB 30216A | MFB 30416A |

Length: 10 12 14 16



| Diameter | Ø2.5 | |
|----------|------------|------------|
| Pitch | 1 | |
| L \ C | 2 | 4 |
| 10 | MFB 25210H | MFB 25410H |
| 12 | MFB 25212H | MFB 25412H |
| 14 | MFB 25214H | MFB 25414H |

Length: 10 12 14



| Diameter | Ø3.0 | |
|----------|-------------|-------------|
| Pitch | 1 | |
| L \ C | 2 | 4 |
| 10 | MFB 30210AH | MFB 30410AH |
| 12 | MFB 30212AH | MFB 30412AH |
| 14 | MFB 30214AH | MFB 30414AH |
| 16 | MFB 30216AH | MFB 30416AH |

Length: 10 12 14 16

Restorative Products

ProTem/Secure(Ball)

- › Used in creating an immediate temporary system for removable prosthetics
- › Peek system healing cap and analog provides simple and convenient temporary prosthetic fabrication
- › Body designed for secure initial entry and firm gripping power
- › Optimal self-tapping thread design

Healing Cap



| L | D | |
|---|---|----------|
| | | Ø5.0 |
| 6 | | MHC 5006 |
| 8 | | MHC 5008 |

*For use with Ø3,0

Ball Cap



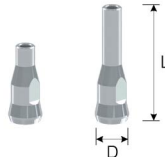
| L | D | |
|-----|---|----------|
| | | Ø3.8 |
| 3.4 | | MBC 3803 |

O-ring



| L | D | |
|---|---|---------|
| | | Ø3.4 |
| 1 | | OR 3401 |

Cemented Abutment

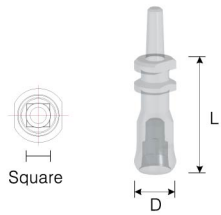


Length: 8 12

| L | D | |
|----|---|----------|
| | | Ø3.5 |
| 8 | | MCB 3508 |
| 12 | | MCB 3512 |

*For use with Ø3,0

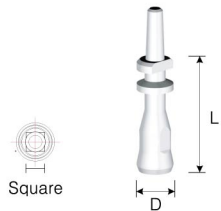
Custom Abutment



| Length | Square | D | |
|--------|--------|---|----------|
| | | | Ø4.0 |
| 11 | 1.67 | | MCA 4011 |

*For use with Ø3,0

Impression Coping



| Length | Square | D | |
|--------|--------|---|----------|
| | | | Ø3.5 |
| 11 | 1.67 | | MIC 3511 |

*For use with Ø3,0

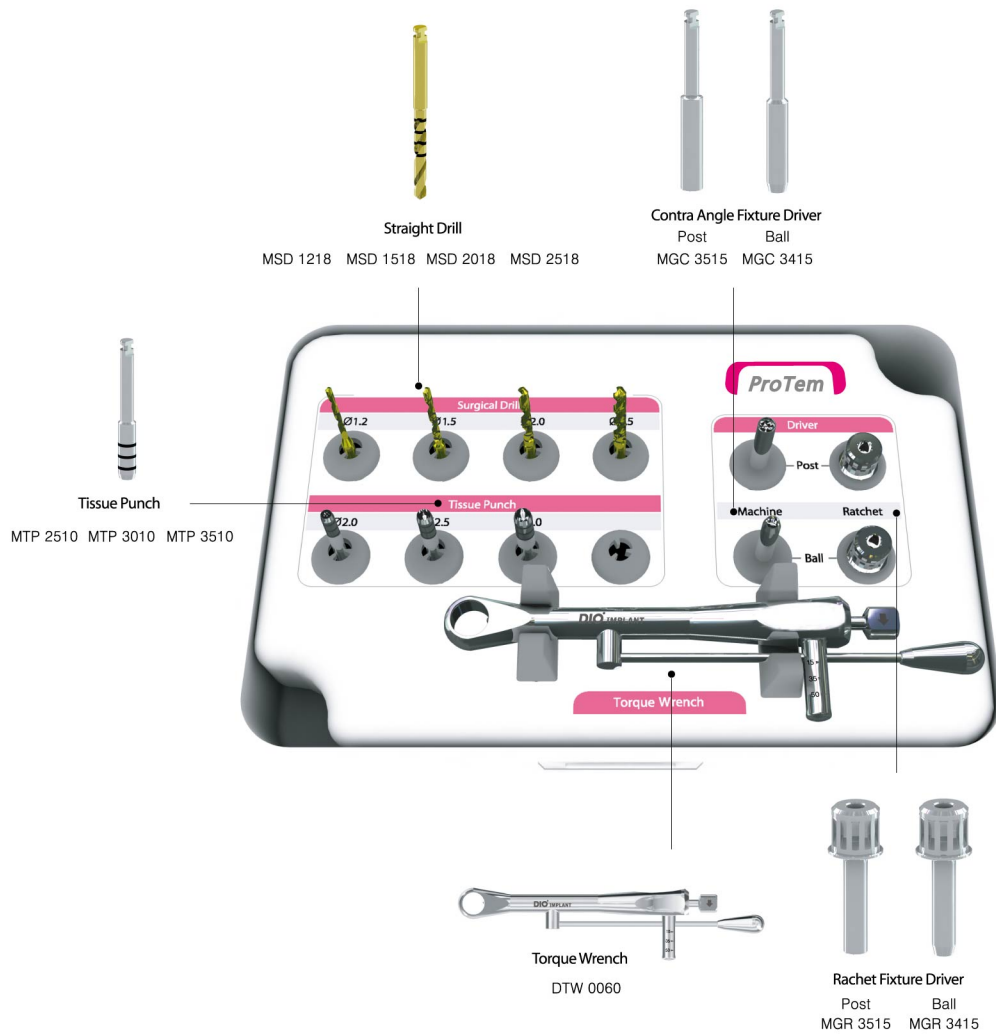
Ball Analog



Ø2.0 / Ø2.5 Ø3.0

| L | Fixture Dia. | | |
|----|--------------|-------------|---------|
| | | Ø2.0 / Ø2.5 | Ø3.0 |
| 10 | | MAB 2510 | MAB3014 |

ProTem/Secure Surgical Kit



Site Preparation

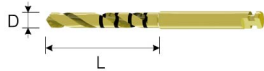
Post type / Ø3.0mm(Length: 12mm)

Ball type / Ø3.0mm(Length: 12mm)



| No. | Fixture Diameter | Pitch | Dense Bone | | Medium Bone | | Poor Bone | |
|-----|------------------|-------|------------|-----------|-------------|--------------|-----------|-----------|
| | | | Drill(Ø) | Depth(mm) | Drill(Ø) | Depth(mm) | Drill(Ø) | Depth(mm) |
| 1 | Ø2.0 | 0.6 | 1.2 | 1/2~3/4 | 1.2 | Cortical~1/2 | - | - |
| 2 | Ø2.5 | 1 | 2.0 | 1/2~3/4 | 1.5 | 1/2 | 1.5 | Cortical |
| 3 | Ø3.0 | 1 | 2.5 | 3/4~Full | 2.0~2.5 | 1/2~Full | 2.0~2.5 | 1/3~1/2 |

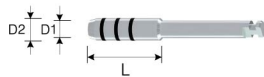
Straight Drill



| L \ D | Ø1.2 | Ø1.5 | Ø2.0 | Ø2.5 |
|-------|----------|----------|----------|----------|
| 12 | MSD 1212 | MSD 1512 | MSD 2012 | MSD 2512 |
| 18 | MSD 1218 | MSD 1518 | MSD 2018 | MSD 2518 |

-Compatible with Post type and Ball type

Tissue Punch

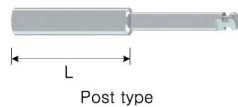


| L \ D1/D2 | Ø2.0/Ø2.5 | Ø2.5/Ø3.0 | Ø3.0/Ø3.5 |
|-----------|-----------|-----------|-----------|
| 10 | MTP 2510 | MTP 3010 | MTP 3510 |

-D1: Inner diameter; D2: Outer diameter

-Compatible with Post type and Ball type

Contra Angle Fixture Driver



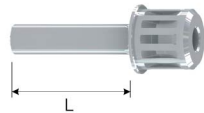
Post type



Ball type

| Type | Post type | Ball type |
|-------|-----------|-----------|
| L \ D | Ø3.5 | Ø3.4 |
| 10 | MGC 3510 | MGC 3410 |
| 15 | MGC 3515 | MGC 3415 |
| 20 | MGC 3520 | MGC 3420 |

Ratchet Fixture Driver



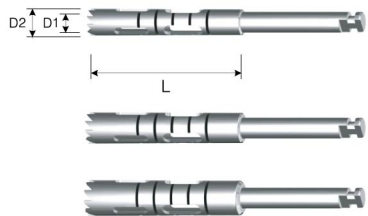
Post type



Ball type

| Type | Post type | Ball type |
|-------|-----------|-----------|
| L \ D | Ø3.5 | Ø3.4 |
| 10 | MGR 3510 | MGR 3410 |
| 15 | MGR 3515 | MGR 3415 |
| 20 | MGR 3520 | MGR 3420 |

Trephine Drill



| L \ D | D1(Inner):Ø2.2 D2(Outer):Ø3.0 |
|-------|-------------------------------|
| 18 | TRD 3022 |
| L \ D | D1(Inner):Ø2.7 D2(Outer):Ø3.5 |
| 18 | TRD 3527 |
| L \ D | D1(Inner):Ø3.2 D2(Outer):Ø4.0 |
| 18 | TRD 4032 |

Torque Wrench



| | |
|------|----------|
| Code | DTW 0060 |
|------|----------|

- Used in fixture implantation or screw repair
- Torque values (0, 15, 35, 50 Ncm) laser etched into the handle
- Convenient disassembly for easy cleaning

Surgical Kits

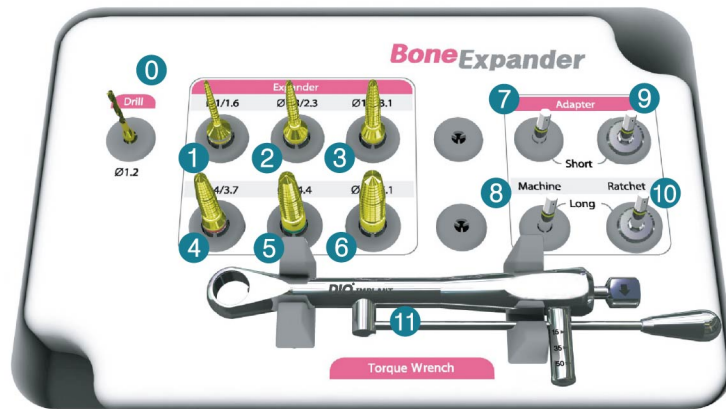
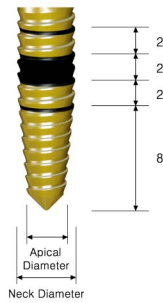
| | |
|-------------------|-----|
| Bone Expander Kit | 141 |
| Sinus Lift Kit | 142 |
| Osteotome Kit | 143 |
| Prosthetic Kit | 144 |

DIO IMPLANT SYSTEM














www.dioimplant.com

Bone Expander Kit

The bone expander kit gradually and gently expands bone tissue to access osteotomy site without bone loss, the kit increase initial safety by keeping the bone density stable.

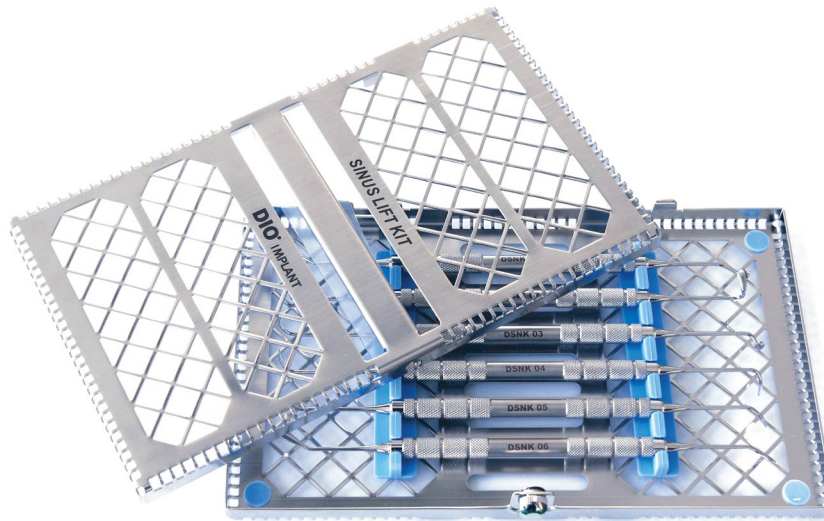


(mm)

| Description | Code | Diameter Apical / Neck | Length | Color Code |
|---|-----------|------------------------|--------|------------|
|  0 1.2mm Initial Drill | MSD 1218 | 1.2 | 16 | |
|  1 1.0/1.6mm Bone Expander | BEP 1716 | 1.0 / 1.6 | 17 | Yellow |
|  2 1.3/2.3mm Bone Expander | BEP 1723 | 1.3 / 2.3 | 17 | Yellow |
|  3 1.7/3.1mm Bone Expander | BEP 1731 | 1.7 / 3.1 | 17 | Yellow |
|  4 2.4/3.7mm Bone Expander | BEP 1737 | 2.4 / 3.7 | 17 | Red |
|  5 3.0/4.4mm Bone Expander | BEP 1744 | 3.0 / 4.4 | 17 | Green |
|  6 3.5/5.1mm Bone Expander | BEP 1751 | 3.5 / 5.1 | 17 | |
|  7 Driver(short) For Contra Angle | MHDC 2520 | | | |
|  8 Driver(long) | MHDC 2525 | | | |
|  9 Driver(short) For Ratchet Wrench | MHDR 2513 | | | |
|  10 Driver(long) | MHDR 2518 | | | |
|  11 Ratchet Wrench | DTW 0060 | | | |
|  Open Wrench | OW 002 | | | |

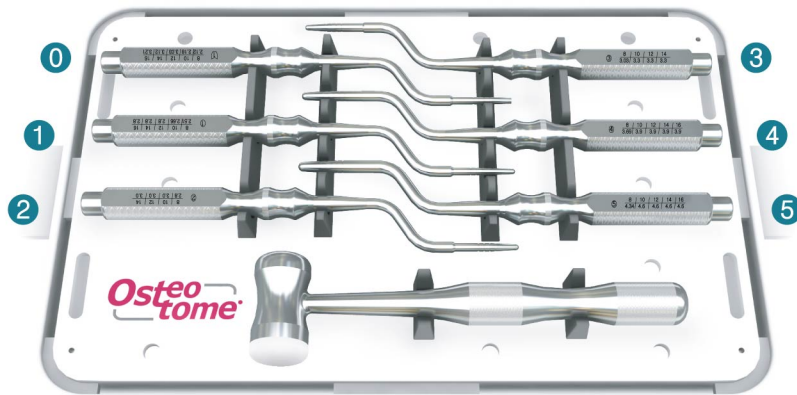
Sinus Lift Kit

Custom designed kit comprised of 6 tools used in sinus procedures



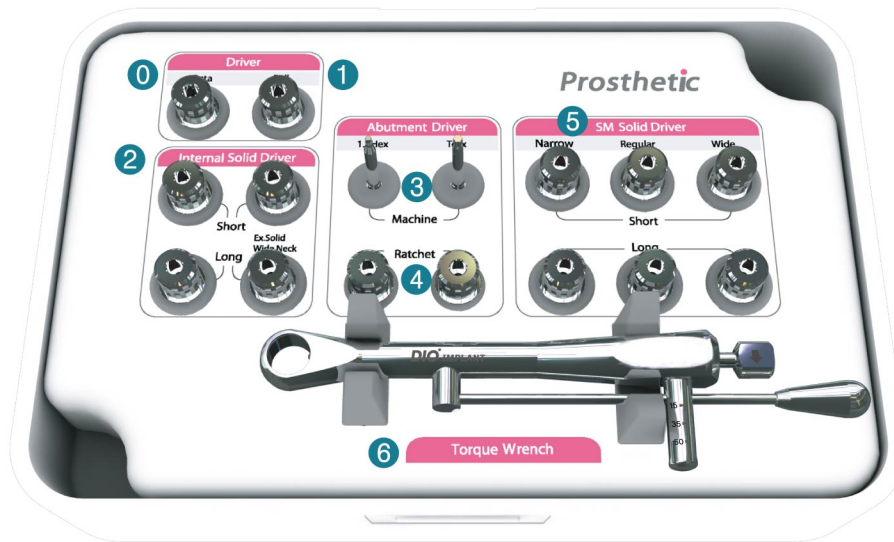
| Sinus Elevator & Membrane Lift Tips | | | Code | Description |
|-------------------------------------|--|--|---------|--------------------------|
| | | | DSNK 01 | Membrane Detach Elevator |
| | | | DSNK 02 | Membrane Elevator |
| | | | DSNK 03 | Membrane Elevator |
| | | | DSNK 04 | Membrane Elevator |
| | | | DSNK 05 | Membrane Elevator |
| | | | DSNK 06 | Bone Graft Packer |

Osteotome Kit

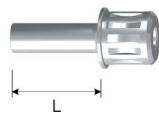


| Diameter(L) | Image | Code | Application |
|-------------|-------|----------|--|
| <p>0</p> | | OSE 2228 | SM/ IFI/ FTN Initial Drill |
| <p>1</p> | | OSL 2028 | Sinus Elevation |
| <p>2</p> | | OSL 2130 | FTN 33xxB Compaction |
| <p>3</p> | | OSL 2133 | SFN 38xx/ IFI 35xxPM Compaction |
| <p>4</p> | | OSL 3039 | SFR 45xx/ IFI 40xxM Compaction |
| <p>5</p> | | OSL 3546 | SFW 53xx/ IFI 48xxM/ FTN 50xxB Compaction |

Prosthetic Kit

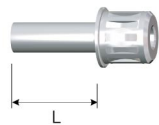


0 Octa Abutment Driver



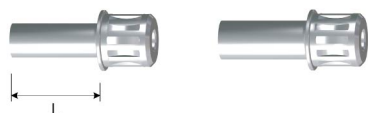
| Type | L | Code |
|----------|----|---------|
| 3.0 Octa | 12 | HD 3012 |

1 Ball Abutment Driver



| L | Code |
|----|---------|
| 12 | HD 2412 |

2 Internal Solid Abutment Driver



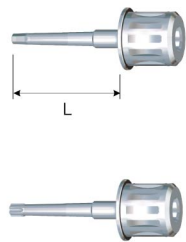
| L | Abutment Dia. | |
|----|---------------|---------|
| | Ø3.5 | Ø4.3 |
| 6 | HD 3506 | HD 4306 |
| 12 | HD 3512 | HD 4312 |

3 Machine Screw Driver



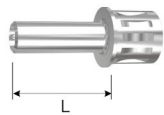
| Type | L | Code |
|----------|----|---------|
| 1.2 Hex | 30 | MD 1230 |
| 1.7 Torx | 30 | MD 1730 |

4 Ratchet Screw Driver



| Type | L | Code |
|----------|----|---------|
| 1.2 Hex | 15 | HD 1215 |
| 1.7 Torx | 15 | HD 1715 |

5 SM Solid Abutment Driver



| L \ Abutment Dia. | Ø3.9 | Ø4.8 | Ø5.8 |
|-------------------|----------|----------|----------|
| 6 | HDS 3906 | HDS 4806 | HDS 5806 |
| 12 | HDS 3912 | HDS 4812 | HDS 5812 |

6 Torque Wrench



| Code | DTW 0060 |
|------|----------|
|------|----------|

Gingival Depth Gauge



| Code | GDG 3135 |
|------|----------|
|------|----------|





Dental Products

| | |
|--------------------------------|-----|
| Implant Surgical Devices | 138 |
| DIO Surgi Cube | 150 |
| Sonic Surgeon 300 | 151 |
| Dental Materials | 152 |
| Bone Material | 152 |
| Toothpaste | 154 |

DIO IMPLANT SYSTEM

www.dioimplant.com

Implant Surgical Devices

Light Therapy OsseoPulse



■ Characteristics

Initial Stability maintaining and improving

- 2 weeks after implant insertion is Resorptive Phase, That is the time that the bone is resorbed.

Per multi center clinical trial, OsseoPulse treatment maintains and improves initial stability.

Osseointegration facilitation

- In-vitro and In-vivo test results show 58% reduction in osseointegration time, facilitating surgical area tissue healing
- LED treatment facilitating tissue healing was proven by many scientific papers.

Implant surgery period shortening, more patient turnover

- Fast osseointegration shortens the 2nd surgery period and increases patient turnover.

High end treatment

- High end service for patients for expensive implant surgery

Implant marketing

- Showing off OsseoPulse-treated patients in the clinic can promote implant-specialty image of the clinic.

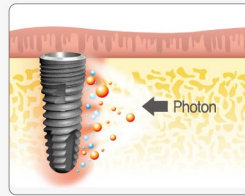
■ Osseopulse principle



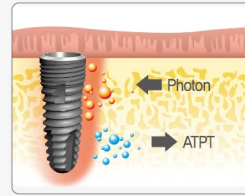
Implant insertion
Mitochondria cytochrome oxidase is a respiratory organ of the cell



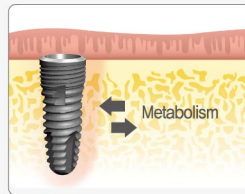
LED radiation
Radiates Osseopulse to the surgery area.



LED function 1
MCO absorbs photon from Osseopulse
MCO(Mitochondria cytochrome oxidase is a photon acceptor



LED function 2
By absorbing photon, it maximizes ATP (Adenosine triphosphate) production.



LED function 3
Increased ATP production increases metabolism, and facilitates osseointegration and wound healing

■ Manufactured by | BIOLUX(Canada)

■ Korean Distribution | DIO Implant

▶ Implant Mobility Measurement Device
Periotest M



- Periotest applications
 - Fixture Stability Measurement
 - Abutment Stability Measurement
 - Periodontium Condition Measurement
 - Occlusal Load Measurement
 - *Confirms the success/failure of prosthesis
- Features
 - Hassle free wireless tooth mobility measuring device.
 - No additional probes or adaptors needed.
 - One touch convenience.
 - Shows initial stability values after implant insertion.
 - Check the occlusal load of natural teeth as well as implants.
- Product Specifications
 - Size 197mm x 70mm x 105mm
 - Weight main unit (150g): Recharger (80g)
 - Voltage 100–240V: AC 50/60Hz: 12V DC
 - Current 800mA (max)
- Manufactured by | Medizintechnik Gulden (Germany)
- Korean Distribution | DIO Implant

▶ Surgical Engine
DIO-Anthogyr



- Features
 - Convenient touch-screen operation.
 - Real-time RPM and torque values displayed during surgery.
 - Calibration module between contra-angle and motor.
 - 3 protocol (4 step) changing and saving function.
 - ex) Protocol 1: Hard Bone
 - Protocol 2: Soft Bone
 - Protocol 3: Medium Bone
 - Flow pump – 5 step adjustment, 0 ~ 60ml/min
 - All functions controlled by foot pedal during surgery.
- Product Specifications
 - Voltage 220V, 50/60Hz
 - Speed 500–40,000rpm
 - Torque Range 7–55Ncm (up to 80Ncm with Mont Blanc handpiece)
 - Size 250mm x 205mm x 130mm
 - Contents: Engine unit, foot pedal, micromotor, handpiece, irrigation tube
- Manufactured by | Anthogyr (France)
- Korean Distribution | DIO Implant

▶ Contra-angle
Montblanc Contra-angle



- Features
 - Excellent grip and power of up to 80 N.cm
 - Head and gear can be disassembled from the body, easy component replacement, and excellent durability
- Manufactured by | Anthogyr (France)
- Korean Distribution | DIO Implant

DIO Surgi Cube



BLDC motor(0~50,000RPM)and Angle(Standard equipment 20:1) provides the optimised torque in surgery.

- RPM: 30rpm~2,500rpm(20:1 is recommended for the optimum use)
- Torque : 20:1 (5.0~55Ncm) / 32:1 (5.0 ~65Ncm)
- Gear ratio : 1:1, 20:1, 27:1, 32:1

Program memory function

- 10 programmable memories for setting Speed, Torque, Rotating Direction, Irrigation Pump



Automatic overload protection function

- If the load on the Bur is higher than set Torque, the motor is stopped automatically after 2 seconds.
- For releasing the overload function, push foot control pedal.

Actual RPM and Torque is indicated when motor is running, which makes user verify proper working condition during operation.

Ergonomic foot control pedal

- The foot control pedal is designed ergonomically to control all the functions and it provides high convenience.



Membrane touch display

Self-diagnosis function

► Control box

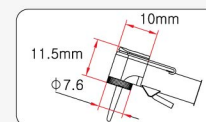
| | |
|-------------|-----------------------|
| Input | AC100-110V / 220-240V |
| Frequency | 50/60Hz |
| Output | MAX : 120W |
| Pump volume | MAX.75mL/min |
| Demensions | W205 X D210 X H136 |
| Weight | 3.3kg |



ACL(B)-411

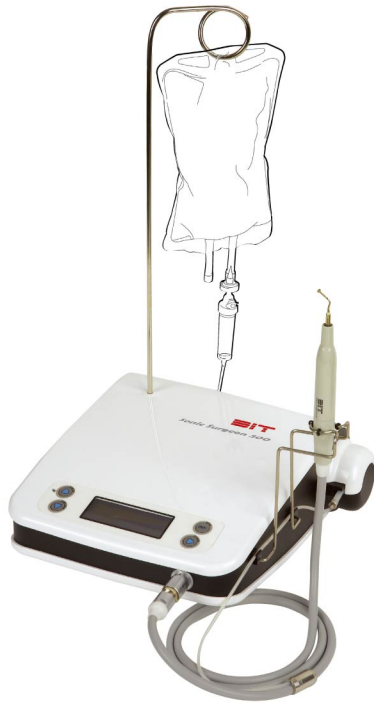
IMPLANT HANDPIECE

- Push button chuck
- Internal and external irrigation system
- Provides sufficient force at low speed (Max torque 55Ncm) : 20:1
- Ergonomic comfort grip
- ACL(B)-41 I16:1/20:1/32:1/64:1 gear ratio
- Available for various E-type motors in accordance with ISO standard.
- reasonable price and excellent performance
- 134° autoclavable



SMALL HEAD SIZE

Sonic Surgeon 300



Technical Data

| | | |
|---|---------------------|---|
| Device in accordance with Directive 93/42/EEC | | Class II a. |
| Class according to EN 60601-1 | | 1 TYPE B |
| Device for intermittent operation | | 60" ON 30" OFF |
| Input | Voltage | AC210-240V, AC95-115V |
| | Current | MAX 1A |
| | Frequency | 60/50Hz |
| Ultrasonic | Operation Frequency | 26±3kHz |
| | Output | MAX 20W |
| Delivery rate of the peristaltic pump | | Adjustable via keypad 5 delivery rate 10 to approx. 100ml/min |
| Ambient Temperature | Transport & storage | -10°C to 40°C (14°F to 104°F) |
| | Operation | 10°C to 40°C (50°F to 104°F) |
| Relative Humidity | Transport & storage | 10% to 95% |
| | Operation | 30% to 75% |

Tips

Standard Tips



Special Tips



Feature

- **Realized stable high power**
We realized more stable and optimized power base on our piezo technology about material, components design and manufacturing.
- **Provided various Tips including patented crestal approach tip**
It can be performed an sinus operation more easily and safely and can performed various an operation as Sinus Lift, Ridge expansion, Bone Harvesting, Window open and Block bone.
- **Maximized delivery quantity of saline solution**
We minimized bone heating trouble by maximizing delivery quantity of saline solution up to 100ml/min..
- **Multi-Function & ergonomics designed foot switch**
It is able to control power, delivery quantity of saline solution and operation of each function, also it is very comfortable for your foot when you operate it long time
- **Applied large sterilizing tray**
It is able to sterilize handpiece, torque wrench and Tips at the same time
- **Clean and Prickle design by black & white tone**

Dental Materials

Sterilizers

Handpiece Sterilizer Dentistar



■ Features

The only one of its kind in the world cleaning, oiling, and lubricating handpieces together with HTOS(High Temperature Oil Sterilization) method.
Preventing rust and component damage, and removing residue, thus prolonging handpiece life
Preventing cross contamination with perfect sterilization
Safe sterilizing oil use approved by FDA and MLHW with no harm to human.

■ Manufactured by | Sejin Medical (Korea)

Bone Material

Dental Materials Beta Cleaner

Beta Cleaner-*i*



■ Features

Biocompatibility consisting of high purity β -TCP
Minimized nozzle blocking due to 45 ~ 75 μ m ball shape
Perfect elimination of all inflammations in the micropores on the implant surface
Acting as bio carrier for new bone formation after getting rid of inflammation

| | |
|----------------------|-------------------------------|
| ■ INGREDIENT | β -Tricalcium Phosphate |
| ■ average grain size | 60 μ m(45~75 μ m), |
| ■ Manufactured by | DIO IMPLANT |

Beta Cleaner-*d*



■ Features

Simple surgery and immediate effect
cheaper than desensitizers on the market
Use recommended after scaling and flap surgery
Adherence of 20 ~ 45 μ m ball shaped particles to minute areas
facilitation of bone generation by high-purity β -tcp adhering to the exposed dentinal tubules

| | |
|----------------------|-------------------------------|
| ■ INGREDIENT | β -Tricalcium Phosphate |
| ■ average grain size | 35 μ m(20~45 μ m) |
| ■ Manufactured by | DIO IMPLANT |

Bone Material

Synthetic Bone Graft Substitute **Genesis-BCP**



Osteogenesis + Biphasic Calcium Phosphate

100% Synthetic Bone Substitute

Very safety

No secondary infection

High mechanical strength

Hydroxyapatite 60% + Beta-TCP 40%

| Capacity (g) \ Granules size (μ m) | 100 ~ 500 | 500 ~ 1,000 | 1,000 ~ 2,000 |
|---|--------------|----------------|------------------|
| 0.25 | BG1025 | BG5025 | BG10025 |
| 0.5 | BG1050 | BG5050 | BG10050 |
| 1 | BG10100 | BG50100 | BG100100 |

Toothpaste

DIO HAp Toothpaste



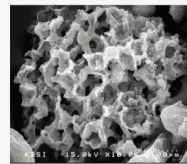
| 3,57 Oz (100g) | 0,70 Oz (20g)



DIO's premium toothpaste uses only the purest crystalline HAp (Hydroxyapatite)

FDA (USA) approved

- Strengthens enamel
- Effective teeth whitening power
- Superior cavity protection



Hydroxyapatite

Hydroxyapatite is the main component in bone composition (HAp 60%). HAp repairs and strengthens damaged tooth enamel by bonding with the tooth structure and returning the damaged enamel to its original state. HAp is biocompatible and has no adverse effects on the human body.

DIO Nano-HAp Toothfoam



| 1,76 Oz (50g) | Refill: 10,56 Oz (300g)



Nano sized HAp toothfoam can be used without a toothbrush (using a toothbrush is highly recommended), while providing superior cleaning power.

FDA (USA) approved

- Strengthens enamel
- Great for use after implant surgery and orthodontics
- Safe and effective after oral surgery



Pump 2-3 times into mouth and rinse for one minute
Rinse and brush with toothbrush

Toothpaste

➤ DIO Toothpaste for children



| 80g, For ages: 2~7



DIO children's toothpaste features HAp and superior cavity protection while providing exceptionally clean teeth.

- Superior Germ Fighting
- Effective Cavity Protection
- Clean Fresh Feeling



Mastic

Growing only on its native Greek Island of Kios, the Pistacia Lenticis tree produces a sap that not only contains properties that protect against cavities but also contain anti-microbial properties that provide superior oral protection. From Europe to the rest of the world, we will bring these wonderful properties to your toothpaste.

➤ DIO HAp PRTC Paste for Dentist



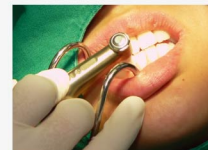
| 1.76 Oz (50g)



DIO PRTC (Professional Re-Enameling Tooth Cleaner) finishing paste provides a strong base for optimal dental health after treatment.

FDA (USA) Approved

- Alleviates tooth sensitivity
- Smoothens rough spots
- Stain prevention
- Strengthens enamel
- Eliminates white spots



Apply PRTC paste using a topical tray.
After removing tray, completely remove residual paste with 3-way syringe.

Toothpaste

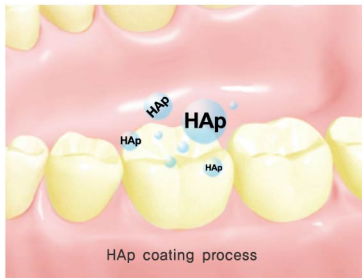
➤ DIO toothpastes alleviates tooth sensitivity

Sensitive teeth allertiation



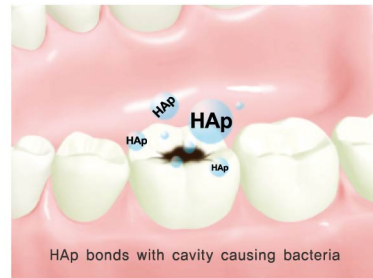
Tooth sensitivity is generally caused by micro perforations in the enamel. HAp prevents the source of problem by repairing the damaged enamel.

Effective tooth whitening



The tooth whitening tooth process does a considerable amount of damage to the tooth enamel, thereby making it susceptible to staining. HAp prevents staining by providing a protective coating, giving the enamel a chance to heal and keep the brightened properties.

Superior cavity protection



HAp gets to the root of the cause of cavities by bonding with and eliminating the source of infection. The long lasting effects protect teeth enamel and prevent the future cavities.

➤ DIO Toothpaste Clinical Studies Data

DIO tooth paste whitening effectiveness study

/ Yonsei University

This study concluded that the HAp prevented return of discoloration/staining after whitening treatment.

YUDC, Department of Conservative Dentistry
/ Yonsei University College of Dentistry 2006



Without HAp application

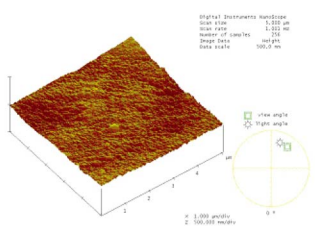


With HAp application

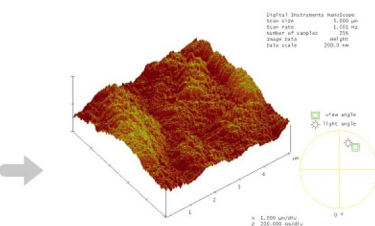
DIO Toothpaste Enamel Repair Effectiveness

/ Gun Yam University

Reference Data: Jun Nam University College of Dentistry 2006

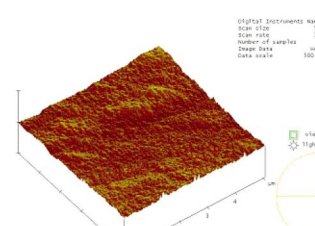


Regular Enamel Level



Enamel surface level after whitening treatment

Surface damaged due to process



Enamel surface after treatment with DIO toothpaste

Enamel returned to regular level (before whitening treatment)

Toothpaste

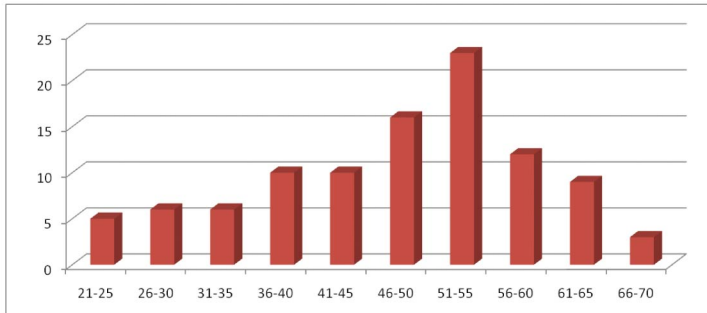
Tooth sensitivity development after periodontal procedure

/ Yonsei University Professor Jo Gyu Sung

» Comparison Study

Yonsei University College of Dentistry Hospital patients sample size: 100

Age distribution of Patients



Patients subject to cold test (using ice stick) to measure pain on visual analogue scale (0: No pain – 10: extreme pain) one week and four weeks after treatment

» Study Results

After conducting a wide variety of tests, the study concluded that toothpastes with Hydroxyapatite were more effective in reducing tooth sensitivity when compared to comparable toothpaste without HAp.

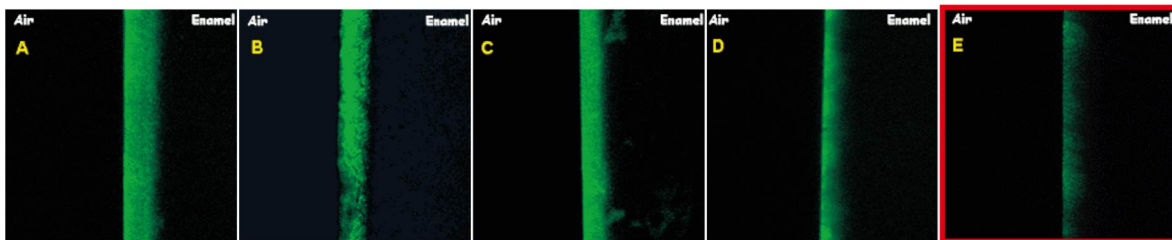
Further clinical studies are recommended to further understand the long term benefits of HAp.

DIO Toothpaste Benefits

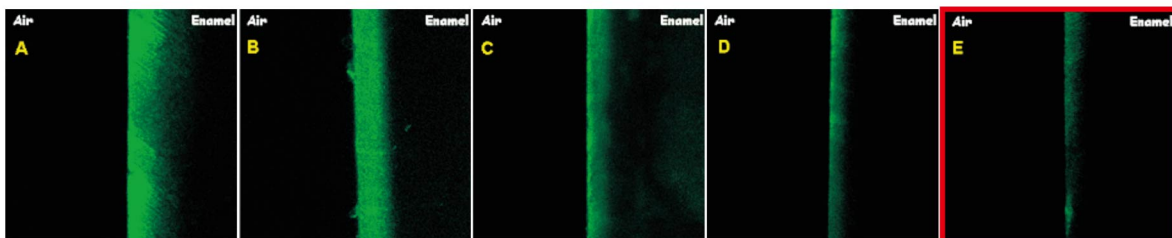
/Kyong Buk University Preventative Dentistry Professor Song Gun Bae

A: No toothpaste application
 B: Fluoride, Zylatol Toothpaste
 C: Fluoride, Glycerol Calcium Phosphate Toothpaste
 D: DIO Toothpaste
 E: DIO PRTC

Electronic Scanning Microscope Image



After 2 Weeks Utilizing CLSM for initial measurements, mineral losses of 50–60 μm were observed in the first group after the first 2 weeks. The second group observed mineral losses of more than 60 μm , however some mineral recovery was exhibited under a florescent light (but not conclusively).



After 4 Weeks All groups exhibited some mineral recovery (except for group 1), however, the outcome of groups 2–5 were successively more apparent with group 5 exhibiting the most mineral recovery. The report concludes that group 5 was clearly the most successful out of the groups tested.

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