



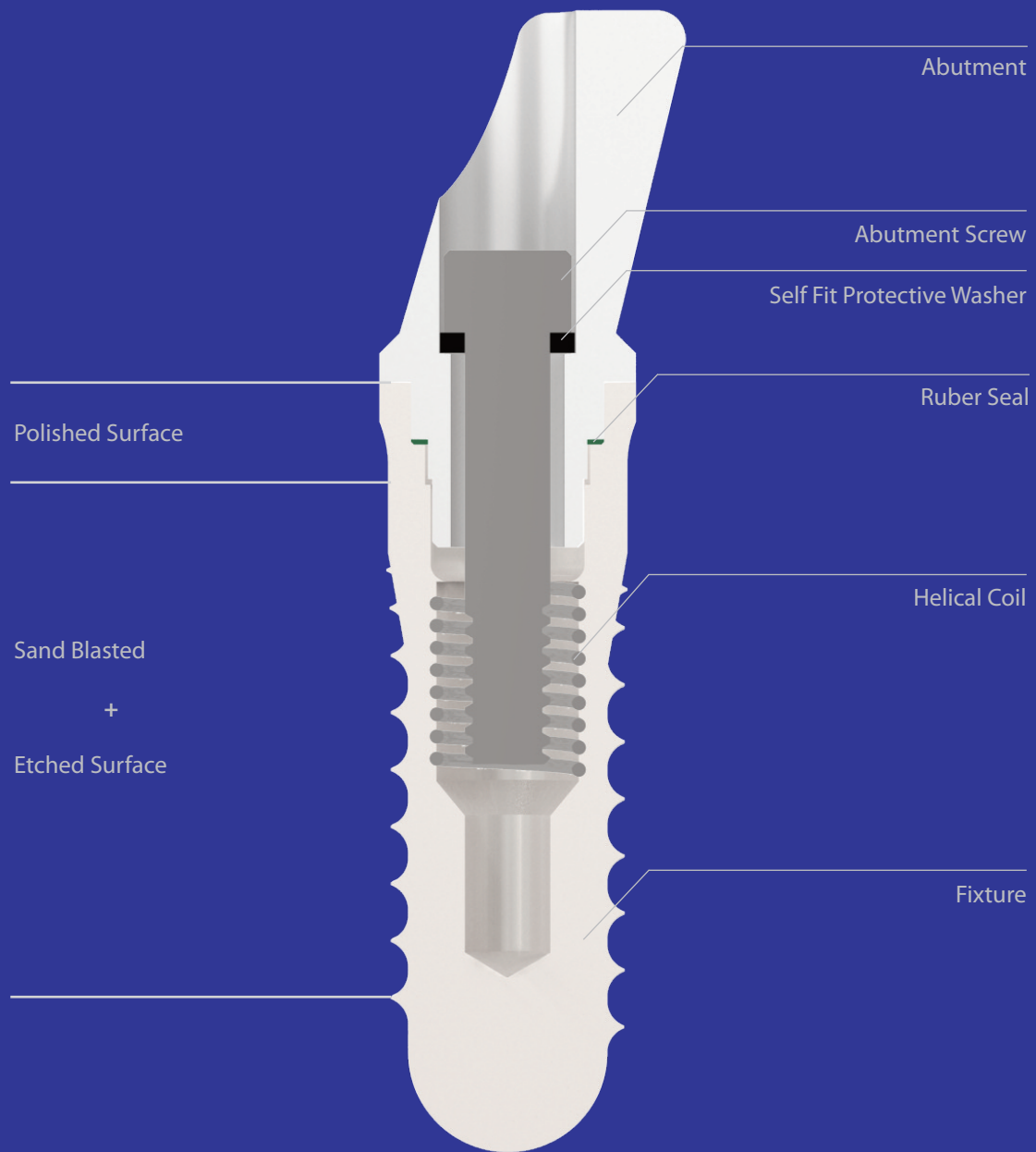
2 0 2 1
HAPPYL
PRODUCT
CATALOG

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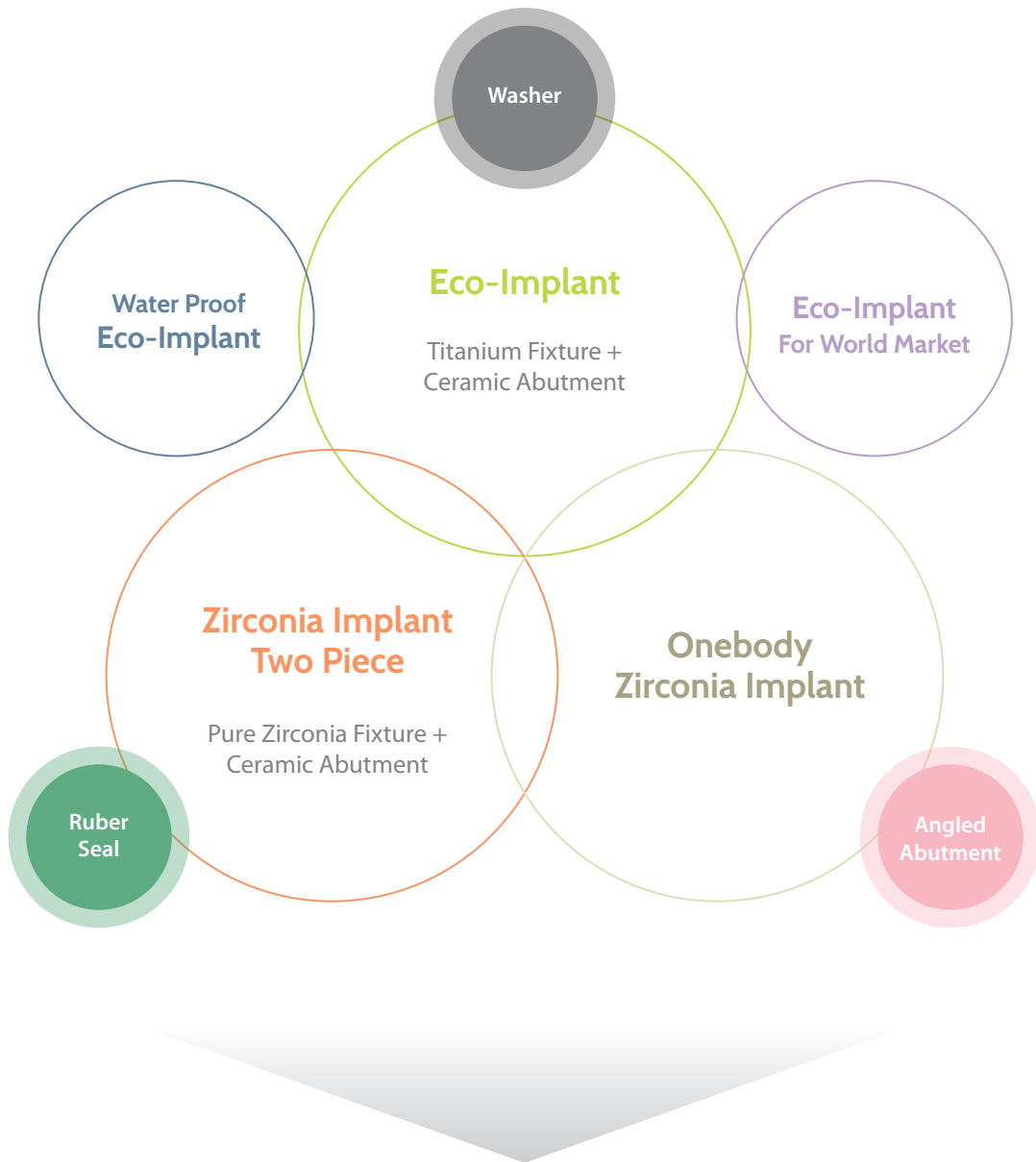
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HappyL Implant

Gum tissue-friendly material with
low plaque retention and inflammation



Increase hospital value and
increase customer satisfaction.



HappyL's three next-generation customized solutions meet the diverse needs of
our customers and deliver satisfactory results.



1

Eco-Implant

Titanium Fixture



Ceramic Abutment

1. Eco-Implant

Why Eco-Implant?

Patented Zirconia Abutment

No Crack, No screw loose

Happyl Eco-Implant revolutionized Zirconia Abutment with washer that prevents cracks and screws loosening.

A washer that prevents cracks and screws loosening is installed between the screw head and the abutment.
So, up to 45 N•cm (usually 30N•cm) of torque had no crack at abutment and 5 million fatigue tests had no screws loosening.



특허 제 10-1577163호

특허 제 10-1686300호

Patented eco- friendly surface treatment technology

Safer and Better

Implants eliminate chemical residue with patented eco-friendly surface treatment technology So Achieve better bone adhesion.

I Nanometer surface area

Nanometer- level roughness implementation increases the speed of high-quality protein adsorption, osteoporosis, and bone adhesion

I No chemical residue

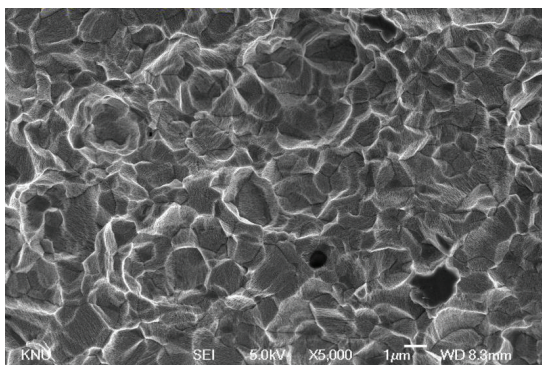
Safe surface treatment that blocks chemical surface residue with eco-friendly etching technology using hydrogen peroxide

I Excellent hydrophilicity

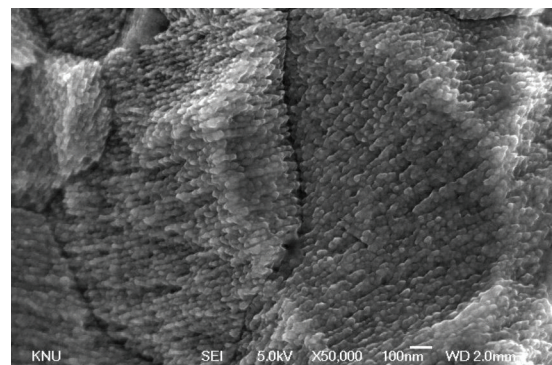
Extensive hydrophilicity on the surface, which is widely formed at nanometer levels, further promotes cell proliferation and bone cell differentiation.

I Excellent surface area compared to SLA for cell proliferation and bone fusion

Tens of nanometer-sized bumps form Nanocannels that has been opened stoma to the surface.

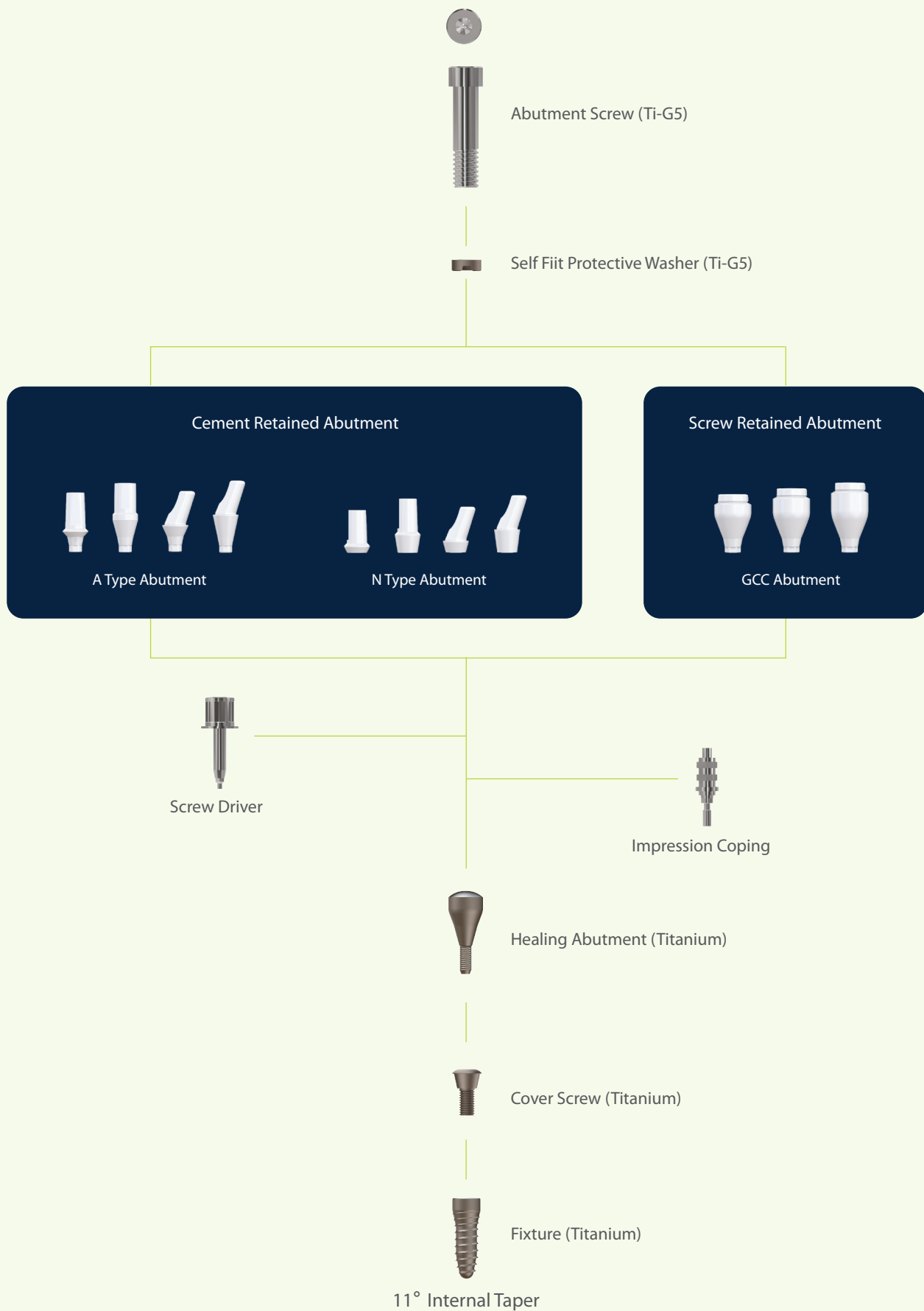


ECO Surface Treatment



Nanotexture Surface

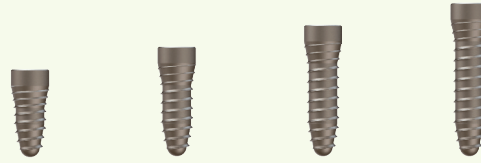
Eco-Implant System Flow Chart



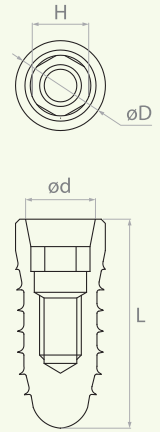
1. Eco-Implant

Bone Level Titanium Eco-Implant

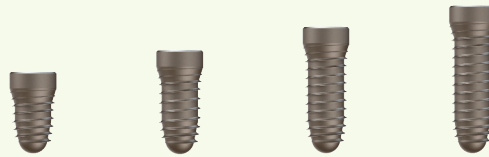
HTF3508 | HTF3510 | HTF3512 | HTF3514



| | | | | |
|-----------------|-----|-----|-----|-----|
| $\varnothing D$ | 3.5 | 3.5 | 3.5 | 3.5 |
| H | 2.1 | 2.1 | 2.1 | 2.1 |
| $\varnothing d$ | 2.8 | 2.8 | 2.8 | 2.8 |
| L | 8 | 10 | 12 | 14 |

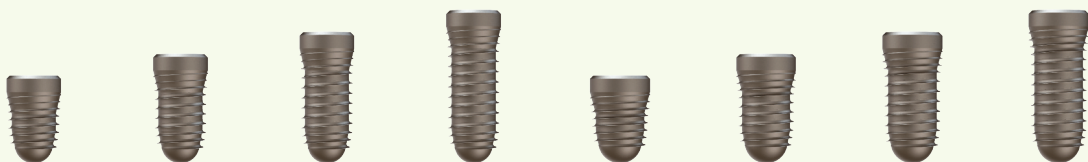


HTF4308 | HTF4310 | HTF4312 | HTF4314



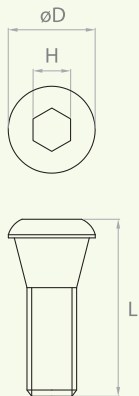
| | | | | |
|-----------------|-----|-----|-----|-----|
| $\varnothing D$ | 4.3 | 4.3 | 4.3 | 4.3 |
| H | 2.5 | 2.5 | 2.5 | 2.5 |
| $\varnothing d$ | 3.4 | 3.4 | 3.4 | 3.4 |
| L | 8 | 10 | 12 | 14 |

HTF5008 | HTF5010 | HTF5012 | HTF5014 | HTF5508 | HTF5510 | HTF5512 | HTF5514

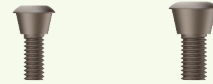


| | | | | | | | | |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| $\varnothing D$ | 5.0 | 5.0 | 5.0 | 5.0 | 5.5 | 5.5 | 5.5 | 5.5 |
| H | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| $\varnothing d$ | 3.4 | 3.4 | 3.4 | 3.4 | 4.0 | 4.0 | 4.0 | 4.0 |
| L | 8 | 10 | 12 | 14 | 8 | 10 | 12 | 14 |

Cover Screw

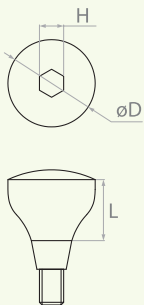


| | HTS2816 | HTS3420 |
|--|---------|---------|
|--|---------|---------|



| | | |
|-----------|------|------|
| øD | 3.25 | 3.85 |
| H | 1.2 | 1.2 |
| L | 5.7 | 5.7 |
| M | 1.6 | 2.0 |

Healing Abutment



| | H5530 | H5550 | H5570 | H6530 | H6550 | H6570 |
|--|-------|-------|-------|-------|-------|-------|
|--|-------|-------|-------|-------|-------|-------|



| | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|
| øD | 5.5 | 5.5 | 5.5 | 6.5 | 6.5 | 6.5 |
| H | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| L | 3.0 | 5.0 | 7.0 | 3.0 | 5.0 | 7.0 |
| M | 1.6 | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 |

| | H7530 | H7550 | H7570 |
|--|-------|-------|-------|
|--|-------|-------|-------|

| | | | |
|-----------|-----|-----|-----|
| øD | 7.5 | 7.5 | 7.5 |
| H | 1.2 | 1.2 | 1.2 |
| L | 3.0 | 5.0 | 7.0 |
| M | 2.0 | 2.0 | 2.0 |

1. Eco-Implant

Cement Retained Abutment (A type)



Abutment Screw (Ti-G5)



Self Fit Protective Washer (Ti-G5)

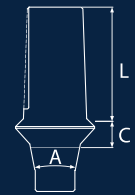
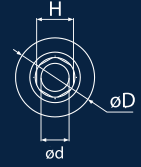
Straight Abutment

* (L: screw length가 긴것)

ZA4501A | ZA4502A | ZA4503A | ZA4504A | ZA4501AL | ZA4502AL | ZA4503AL | ZA4504AL



| | | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| øD | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| H | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| L | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| C | 1.2 | 2.2 | 3.2 | 4.2 | 1.2 | 2.2 | 3.2 | 4.2 | 4.2 |
| A | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° |
| ød | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |



ZA4601A | ZA4602A | ZA4603A | ZA4604A | ZA5501A | ZA5502A | ZA5503A | ZA5504A | ZA6501A | ZA6502A | ZA6503A | ZA6504A

| | | | | | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| øD | 4.6 | 4.6 | 4.6 | 4.6 | 5.5 | 5.5 | 5.5 | 5.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| H | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| L | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| C | 1.5 | 2.5 | 3.5 | 4.5 | 1.5 | 2.5 | 3.5 | 4.5 | 1.5 | 2.5 | 3.5 | 4.5 |
| A | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° |
| ød | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

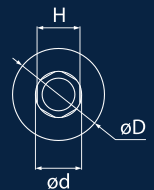
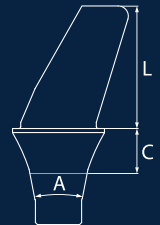
* Cuff 4.5는 프랩의 양이 클 때 사용하십시오.

Angled Abutment (post angle 20°)

ZAA4502A | ZAA4504A | ZAA4502AL | ZAA4504AL | ZAA4602A | ZAA4604A | ZAA5502A | ZAA5504A | ZAA6502A | ZAA6504A



| | | | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| øD | 4.5 | 4.5 | 4.5 | 4.5 | 4.6 | 4.6 | 5.5 | 5.5 | 6.5 | 6.5 |
| H | 2.1 | 2.1 | 2.1 | 2.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| L | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 5.5 | 5.5 | 5.5 |
| C | 2.0 | 4.0 | 2.0 | 4.0 | 2.0 | 4.0 | 2.0 | 4.0 | 2.0 | 4.0 |
| A | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° | 22° |
| ød | 1.6 | 1.6 | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |



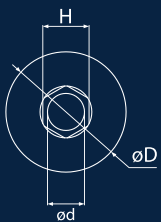
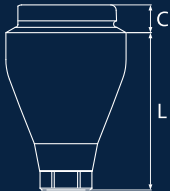
Gold Casted Ceramic Abutment (Screw Type)



Abutment Screw (Ti-G5)



Self Fit Protective Washer (Ti-G5)



| | ZA6560A | ZA6570A | ZA6580A |
|--|---------|---------|---------|
|--|---------|---------|---------|



| | | | |
|----|-----|-----|-----|
| øD | 6.5 | 6.5 | 6.5 |
| C | 1.8 | 1.8 | 1.8 |
| L | 6.0 | 7.0 | 8.0 |
| H | 2.5 | 2.5 | 2.5 |

| | ZA7560A | ZA7570A | ZA7580A | ZA8560A | ZA8570A | ZA8580A |
|--|---------|---------|---------|---------|---------|---------|
|--|---------|---------|---------|---------|---------|---------|

| | | | | | | |
|----|-----|-----|-----|-----|-----|-----|
| øD | 7.5 | 7.5 | 7.5 | 8.5 | 8.5 | 8.5 |
| C | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| L | 6.0 | 7.0 | 8.0 | 6.0 | 7.0 | 8.0 |
| H | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |

Precautions for Ceramic Abutment

1. Completely attach ceramic implants to the gypsum model to make sure that there is no movement and then preparation. A small movement can cause hexagonal crack in the abutment due to the preparation movement.
2. If the cuff is prepared, use diamond sand paper #800 or more to polishing the processing part.
3. This product has a high hardness, So it can be easily preparation using diamond tools or tools with good cutting power. (270,000 to 300,000 rpm)
4. If you have a lot of frills, you can preparation them using the diamond wheel of the bench grinder after attach them to the analog.

Precautions for GCC Abutment

1. When burn out the wax pattern, the temperature of the Furnace is not allowed to be higher than 650 degrees. If the workpiece is transported out of the furnace during gold casting, Sudden temperature changes can cause thermal shock, which can cause cracks in the abutment.
2. The gcc is 0.5mm wide of the shoulder, allowing preparation in the event of proximity and interference, so using an air-turbine(300,000 rpm) using a diamond tool is not a problem at all.
3. If gcc is prepared, the surface of the abutment must be used in the oral cavity after Mirror finishing with a diamond polishing tool to prevent plaque.
4. If you use HappyL's screw and washer with the ot her company's zirconia abutment, HappyL's washer will lose the function.

* must observe a Precautions that on the catalog

1. Eco-Implant

Cement Retained Abutment (N Type)



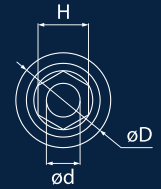
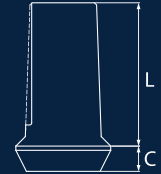
Abutment Screw (Ti-G5)



Self Fit Protective Washer (Ti-G5)

Straight Abutment

ZAN4501A | ZAN4502A | ZAN4503A | ZAN4504A



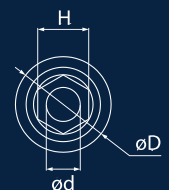
| | | | | |
|----|-----|-----|-----|-----|
| øD | 4.5 | 4.5 | 4.5 | 4.5 |
| H | 2.4 | 2.4 | 2.4 | 2.4 |
| L | 6.8 | 6.8 | 6.8 | 6.8 |
| C | 1.2 | 2.2 | 3.2 | 4.2 |
| ød | 1.6 | 1.6 | 1.6 | 1.6 |

ZAN5501A | ZAN5502A | ZAN5503A | ZAN5504A | ZAN6501A | ZAN6502A | ZAN6503A | ZAN6503A

| | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|
| øD | 5.5 | 5.5 | 5.5 | 5.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| H | 2.7 | 2.7 | 2.7 | 2.7 | 3.4 | 3.4 | 3.4 | 3.4 |
| L | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| C | 1.5 | 2.5 | 3.5 | 4.5 | 1.5 | 2.5 | 3.5 | 4.5 |
| ød | 2.0 | 2.0 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 2.5 |

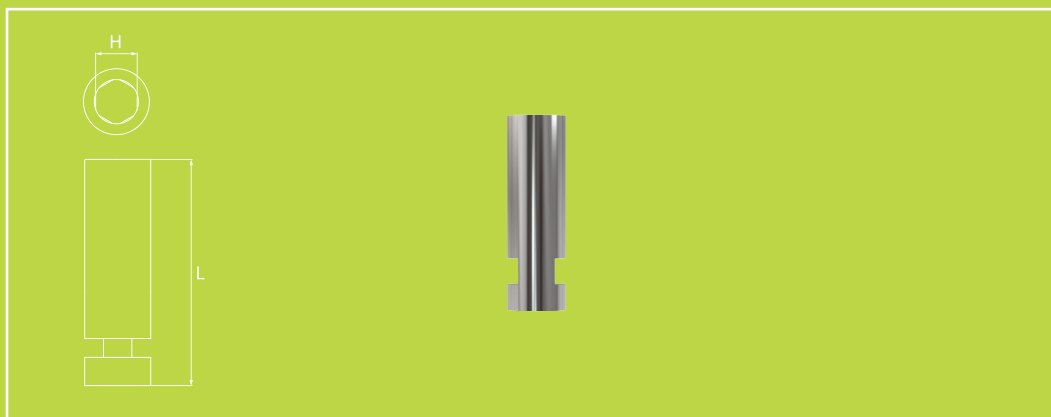
Angled Abutment (post angle 20°)

ZAN4502A | ZAN4504A | ZAN5502A | ZAN5504A | ZAN6502A | ZAN6504A



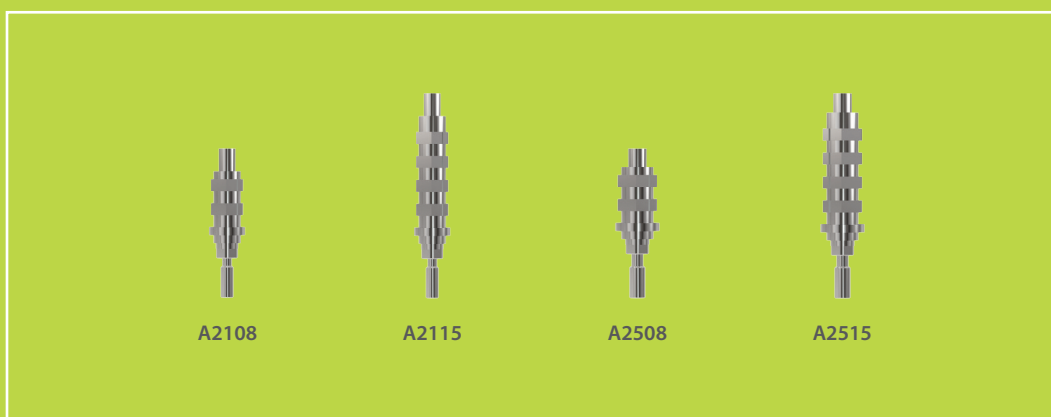
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|----|-----|-----|-----|-----|-----|-----|
| øD | 4.5 | 4.5 | 5.5 | 5.5 | 6.5 | 6.5 |
| H | 2.4 | 2.4 | 2.7 | 2.7 | 3.4 | 3.4 |
| L | 6.0 | 6.0 | 5.5 | 5.5 | 5.5 | 5.5 |
| C | 2.0 | 4.0 | 2.0 | 4.0 | 2.0 | 4.0 |
| ød | 1.6 | 1.6 | 2.0 | 2.0 | 2.5 | 2.5 |

Analog



| | FA021 | FA025 |
|---|-------|-------|
| H | 2.1 | 2.5 |
| L | 12 | 12 |

Impression Coping







A2108






A2115







A2508







A2515

Bone Level Standard Drilling Sequence

| | | | | | |
|--------------|---|---|---|---|---|
| Fix. ø3.5 |  |  |  |  |  |
| | DR23 | Pilot drill | DR30 | CS3035 | 3510 Fixture |

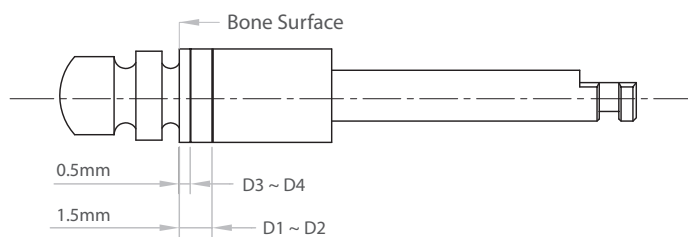
| | | | | | |
|--------------|---|---|---|---|---|
| Fix. ø4.3 |  |  |  |  |  |
| | DR23 | Pilot drill | DR36 | CS3643 | 4310 Fixture |

| | | | | | | |
|--------------|--|--|--|--|--|---|
| Fix. ø5.0 |  |  |  |  |  |  |
| | DR23 | Pilot drill | DR36 | DR41 | CS4150 | 5010 Fixture |

| | | | | | | |
|--------------|---|---|---|---|---|---|
| Fix. ø5.5 |  |  |  |  |  |  |
| | DR23 | Pilot drill | DR36 | DR46 | CS4655 | 5510 Fixture |

How to use the Cortical Drills

Keep following guide according to the bone density.
Dark line is cutting depth from bone surface.





2

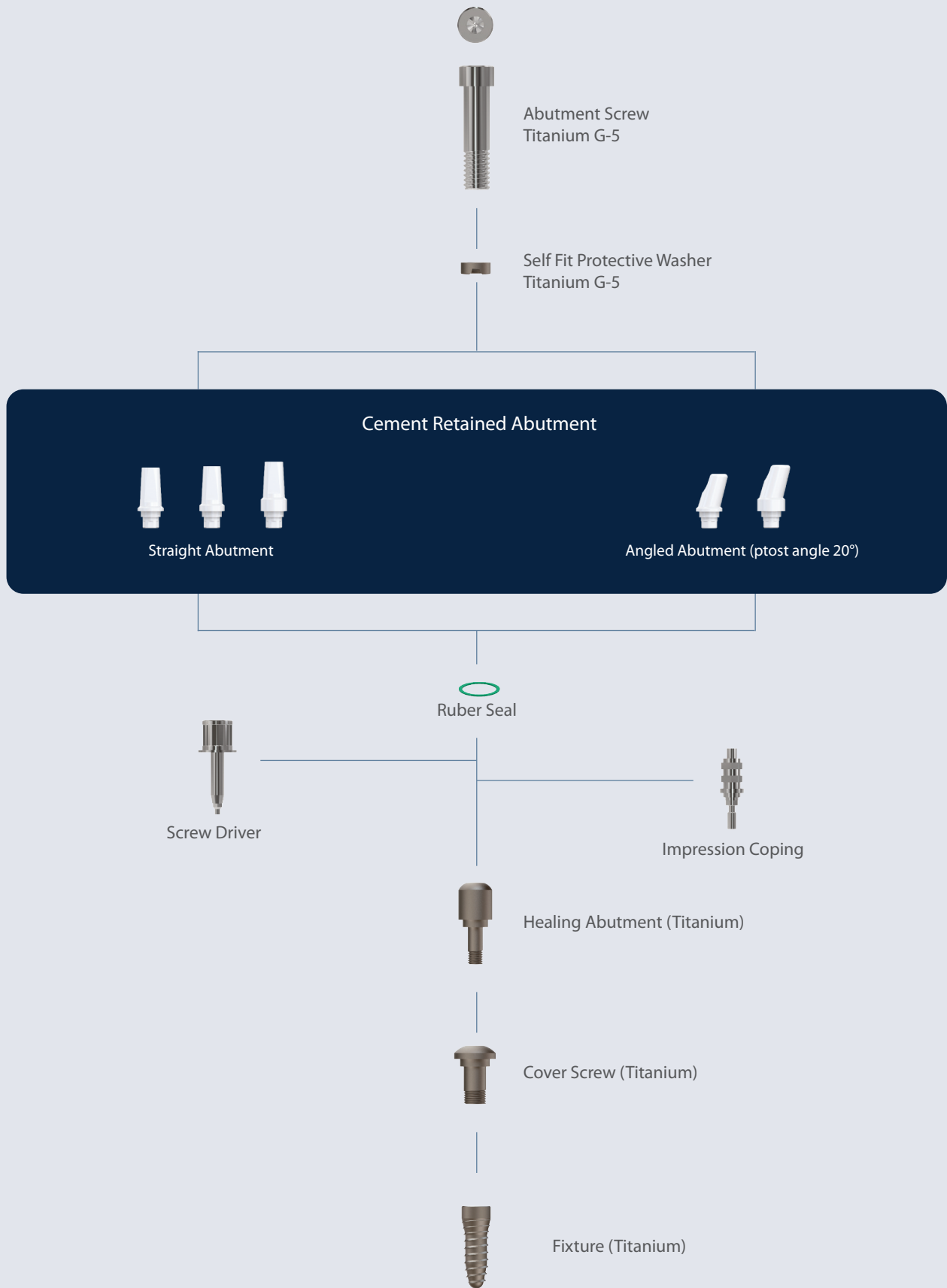
Water Proof Eco-Implant

Titanium Fixture

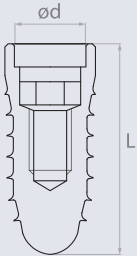
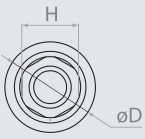


Ceramic Abutment

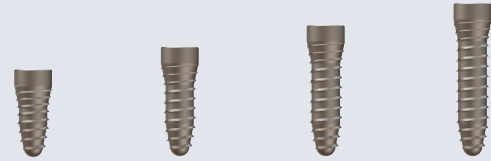
Bone Level Titanium WaterProof Eco-Implant System



Bone Level Titanium WaterProof Eco-Implant

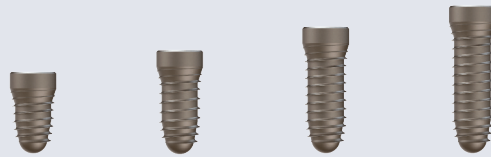


HTF3508W | HTF3510W | HTF3512W | HTF3514W



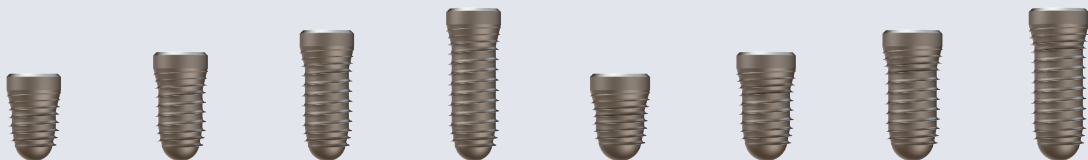
| | | | | |
|-----------|-----|-----|-----|-----|
| øD | 3.5 | 3.5 | 3.5 | 3.5 |
| H | 2.1 | 2.1 | 2.1 | 2.1 |
| ød | 2.8 | 2.8 | 2.8 | 2.8 |
| L | 8 | 10 | 12 | 14 |

HTF4308W | HTF4310W | HTF4312W | HTF4314W



| | | | | |
|-----------|-----|-----|-----|-----|
| øD | 4.3 | 4.3 | 4.3 | 4.3 |
| H | 2.7 | 2.7 | 2.7 | 2.7 |
| ød | 3.4 | 3.4 | 3.4 | 3.4 |
| L | 8 | 10 | 12 | 14 |

HTF5008W | HTF5010W | HTF5012W | HTF5014W | HTF5508W | HTF5510W | HTF5512W | HTF5514W

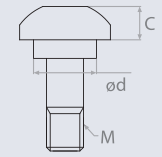
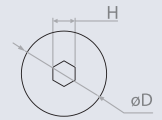


| | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|
| øD | 5.0 | 5.0 | 5.0 | 5.0 | 5.5 | 5.5 | 5.5 | 5.5 |
| H | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| ød | 3.4 | 3.4 | 3.4 | 3.4 | 4.0 | 4.0 | 4.0 | 4.0 |
| L | 8 | 10 | 12 | 14 | 8 | 10 | 12 | 14 |

2. WaterProof Eco-Implant

Cover Screw-WaterProof

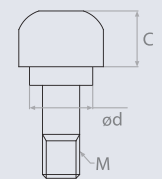
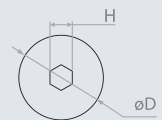
| | HTS2816W | HTS3420W | HTS4020W |
|-----------------|----------|----------|----------|
| $\varnothing D$ | 3.5 | 4.3 | 5.0 |
| H | 1.2 | 1.2 | 1.2 |
| $\varnothing d$ | 2.8 | 3.4 | 4.0 |
| C | 1.6 | 2.0 | 2.0 |
| M | 1.5 | 1.5 | 1.5 |



2. WaterProof Eco-Implant

Healing Abutment-WaterProof

| | H5530W | H5550W | H5570W |
|-----------------|--------|--------|--------|
| $\varnothing D$ | 5.5 | 5.5 | 5.5 |
| H | 1.2 | 1.2 | 1.2 |
| $\varnothing d$ | 2.8 | 2.8 | 2.8 |
| C | 3.0 | 5.0 | 7.0 |
| M | 1.6 | 1.6 | 1.6 |



| | H6530W | H6550W | H6570W | H7530W | H7550W | H7570W |
|-----------------|--------|--------|--------|--------|--------|--------|
| $\varnothing D$ | 6.5 | 6.5 | 6.5 | 7.5 | 7.5 | 7.5 |
| H | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| $\varnothing d$ | 3.4 | 3.4 | 3.4 | 4.0 | 4.0 | 4.0 |
| C | 3.0 | 5.0 | 7.0 | 3.0 | 5.0 | 7.0 |
| M | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

Bone Level WaterProof Ceramic Abutments



Abutment Screw (Ti-G5)

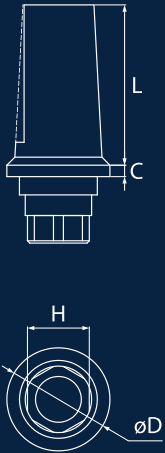


Self Fit Protective Washer (Ti-G5)



Rubber Seal

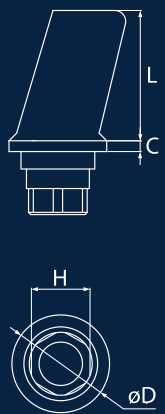
Straight Abutment



| | ZA4501AW | ZA4502AW | ZA4503AW | ZA5501AW | ZA5502AW | ZA5503AW |
|----|----------|----------|----------|----------|----------|----------|
| øD | 4.5 | 4.5 | 4.5 | 5.5 | 5.5 | 5.5 |
| C | 1.5 | 2.5 | 3.5 | 1.5 | 2.5 | 3.5 |
| L | 6.8 | 6.8 | 6.8 | 5.5 | 5.5 | 5.5 |
| H | 2.1 | 2.1 | 2.1 | 2.5 | 2.5 | 2.5 |

| | ZA6501AW | ZA6502AW | ZA6503AW |
|----|----------|----------|----------|
| øD | 6.5 | 6.5 | 6.5 |
| C | 1.5 | 2.5 | 3.5 |
| L | 5.5 | 5.5 | 5.5 |
| H | 2.5 | 2.5 | 2.5 |

Angled Abutment (ptost angle 20°)



| | ZAA4502W | ZAA4504W | ZAA5502W | ZAA5504W | ZAA6502W | ZAA6504W |
|----|----------|----------|----------|----------|----------|----------|
| øD | 4.5 | 4.5 | 5.5 | 5.5 | 6.5 | 6.5 |
| C | 2.0 | 4.0 | 2.0 | 4.0 | 2.0 | 4.0 |
| L | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| H | 2.1 | 2.1 | 2.5 | 2.5 | 2.7 | 2.7 |

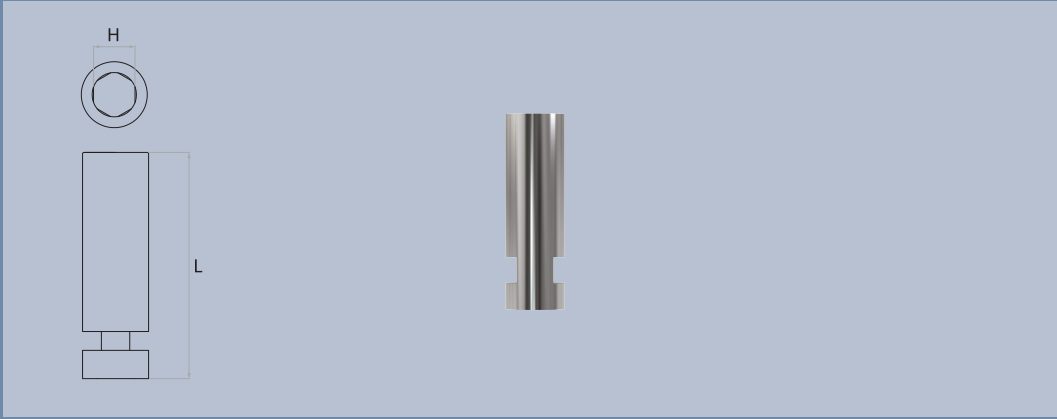
Precautions for Ceramic abutment

1. Completely attach ceramic implants to the gypsum model to make sure that there is no movement and then preparation. A small movement can cause hexagonal crack in the abutment due to the preparation movement.
2. If the cuff is preparationed, use diamond sand paper #800 or more to polishing the processing part.
3. This product has a high hardness, So it can be easily preparation using diamond tools or tools with good cutting power. (270,000 to 300,000 rpm)
4. If you have a lot of frills, you can preparation them using the diamond wheel of the bench grinder after attach them to the analog.

* must observe a Precautions that on the catalog

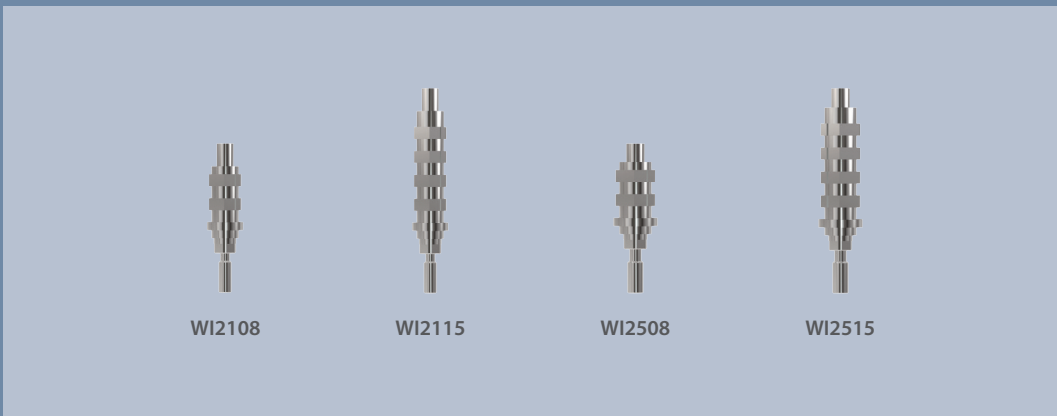
2. WaterProof Eco-Implant

Analog



| | WFA21 | WFA25 | WFA27 |
|---|-------|-------|-------|
| H | 2.1 | 2.5 | 2.7 |
| L | 12 | 12 | 12 |

Impression coping



WI2108

WI2115

WI2508

WI2515



3

Eco-Implant For World Market

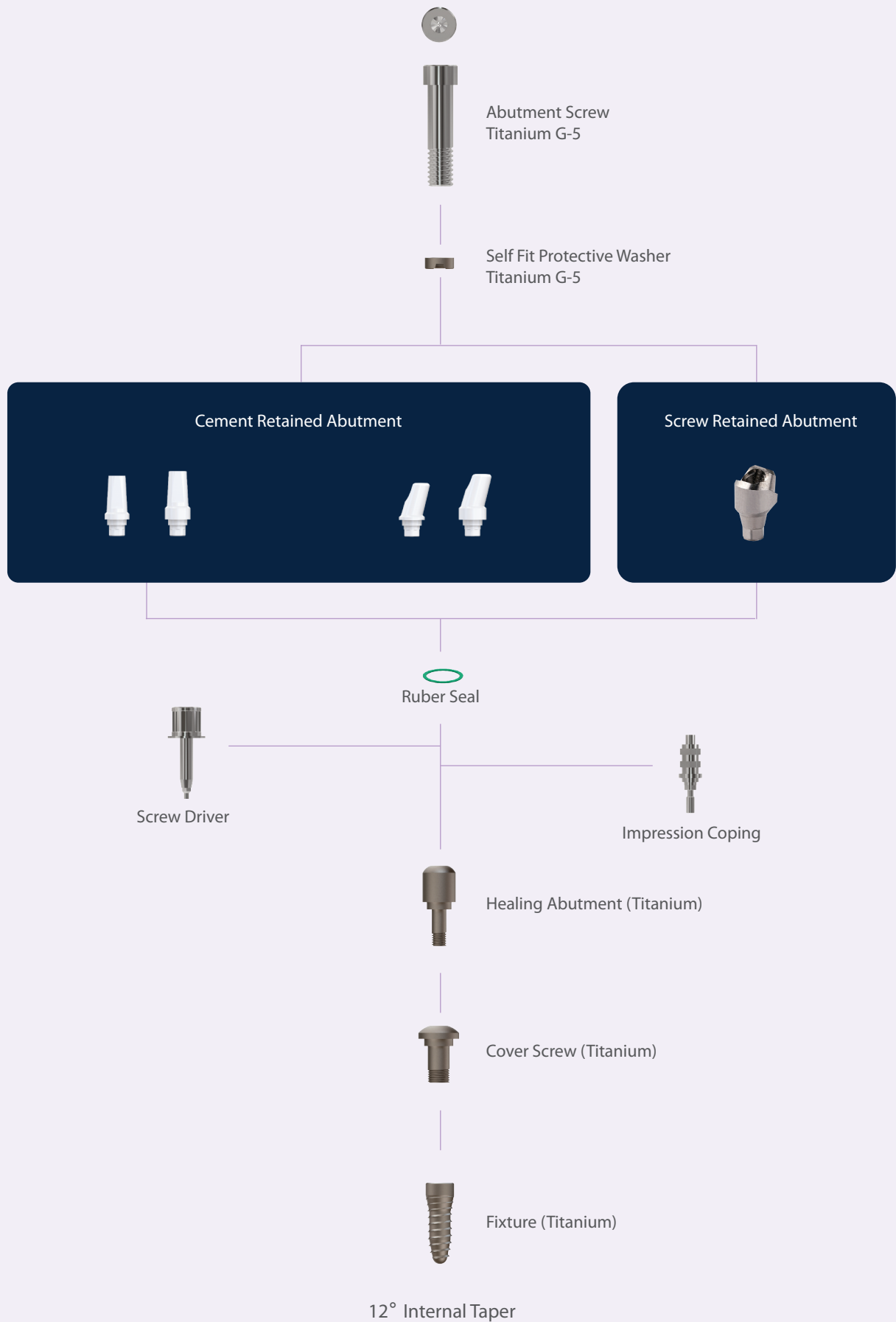
—
Titanium Fixture



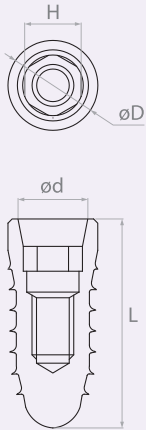
Ceramic Abutment
—



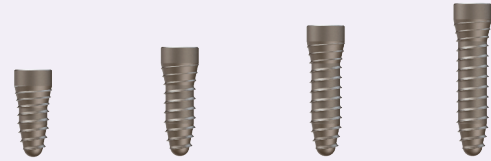
Bone Level Titanium Eco-Implant System For World Market



Bone level titanium Eco-Implant For World Market

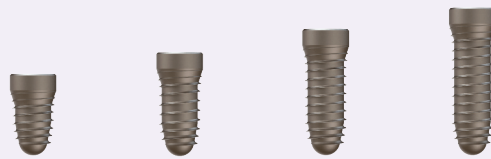


HTF3508AN | HTF3510AN | HTF3512AN | HTF3514AN



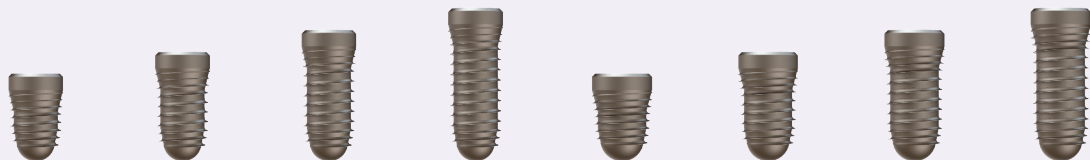
| | | | | |
|-----------------|------|------|------|------|
| $\varnothing D$ | 3.5 | 3.5 | 3.5 | 3.5 |
| H | 2.24 | 2.24 | 2.24 | 2.24 |
| $\varnothing d$ | 2.97 | 2.97 | 2.97 | 2.97 |
| L | 8 | 10 | 12 | 14 |

HTF4308AN | HTF4310AN | HTF4312AN | HTF4314AN



| | | | | |
|-----------------|------|------|------|------|
| $\varnothing D$ | 4.3 | 4.3 | 4.3 | 4.3 |
| H | 2.64 | 2.64 | 2.64 | 2.64 |
| $\varnothing d$ | 3.34 | 3.34 | 3.34 | 3.34 |
| L | 8 | 10 | 12 | 14 |

HTF5008AN | HTF5010AN | HTF5012AN | HTF5014AN | HTF5508AN | HTF5510AN | HTF5512AN | HTF5514AN

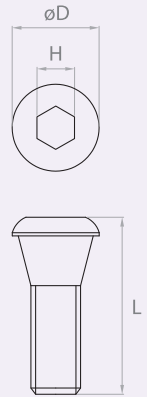


| | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|
| $\varnothing D$ | 5.0 | 5.0 | 5.0 | 5.0 | 5.5 | 5.5 | 5.5 | 5.5 |
| H | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 |
| $\varnothing d$ | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| L | 8 | 10 | 12 | 14 | 8 | 10 | 12 | 14 |

3. Eco-Implant For World Market

Cover Screw For World Market

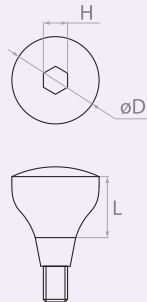
| | HTS3016 | HTS3320 | HTS4420 |
|----------|---------|---------|---------|
| ϕD | 3.3 | 4.0 | 4.8 |
| H | 1.2 | 1.2 | 1.2 |
| L | 1.6 | 2.0 | 2.0 |
| M | 1.6 | 2.0 | 2.0 |



3. Eco-Implant For World Market

Healing Abutment For World Market

| | H5535N | H5550N | H5570N | H6530N | H6550N | H6570N |
|----------|--------|--------|--------|--------|--------|--------|
| ϕD | 5.5 | 5.5 | 5.5 | 6.5 | 6.5 | 6.5 |
| H | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| L | 3.5 | 5.0 | 7.0 | 3.5 | 5.0 | 7.0 |
| M | 1.6 | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 |



| | H7030N | H7050N | H7070N | H7530N | H7550N | H7570N |
|----------|--------|--------|--------|--------|--------|--------|
| ϕD | 7.0 | 7.0 | 7.0 | 7.5 | 7.5 | 7.5 |
| H | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| L | 3.5 | 5.0 | 7.0 | 3.5 | 5.0 | 7.0 |
| M | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

Cement Retained Abutment For World Market

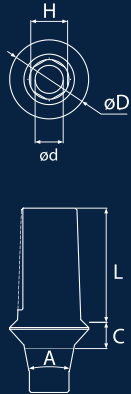


Abutment Screw (Ti-G5)



Self Fit Protective Washer (Ti-G5)

Straight Abutment



| | | | |
|-----------|-----------|-----------|-----------|
| ZAN4501AN | ZAN4502AN | ZAN4503AN | ZAN4504AN |
|-----------|-----------|-----------|-----------|

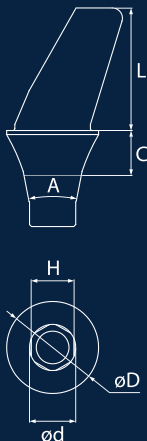


| | | | | |
|----|------|------|------|------|
| øD | 4.5 | 4.5 | 4.5 | 4.5 |
| H | 2.24 | 2.24 | 2.24 | 2.24 |
| L | 6.8 | 6.8 | 6.8 | 6.8 |
| C | 1.2 | 2.2 | 3.2 | 4.2 |
| A | 24° | 24° | 24° | 24° |
| ød | 1.6 | 1.6 | 1.6 | 1.6 |

| | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ZAN4501AN | ZAN5502AN | ZAN5503AN | ZAN5504AN | ZAN6501AN | ZAN6502AN | ZAN6503AN | ZAN6504AN |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

| | | | | | | | | |
|----|------|------|------|------|------|------|------|------|
| øD | 5.5 | 5.5 | 5.5 | 5.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| H | 2.64 | 2.64 | 2.64 | 2.64 | 3.54 | 3.54 | 3.54 | 3.54 |
| L | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 5.5 | 5.5 | 5.5 |
| C | 1.5 | 2.5 | 3.5 | 4.5 | 1.5 | 2.5 | 3.5 | 4.5 |
| A | 24° | 24° | 24° | 24° | 24° | 24° | 24° | 24° |
| ød | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

Angled Abutment (ptost angle 20°)




| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| ZAN4501AN | ZAN5502AN | ZAN5503AN | ZAN5504AN | ZAN6501AN | ZAN6504AN |
|-----------|-----------|-----------|-----------|-----------|-----------|



| | | | | | | |
|----|------|------|------|------|------|------|
| øD | 4.5 | 4.5 | 5.5 | 5.5 | 6.5 | 6.5 |
| H | 2.24 | 2.24 | 2.64 | 2.64 | 3.54 | 3.54 |
| L | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 5.5 |
| C | 2.0 | 4.0 | 2.0 | 4.0 | 2.0 | 4.0 |
| A | 24° | 24° | 24° | 24° | 24° | 24° |
| ød | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 | 2.0 |

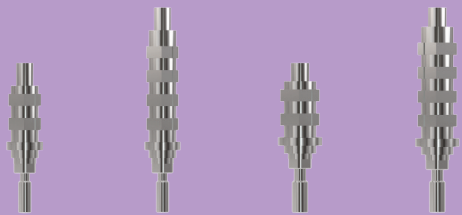
3. Eco-Implant For World Market

Analog



| | FA021N | FA025N |
|---|--------|--------|
| H | 2.1 | 2.5 |
| L | 12 | 12 |

Impression Coping



A2108N A2115N A2508N A2515N

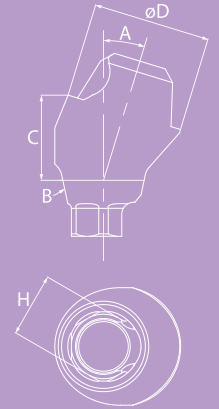
Multi Unit Abutment

MTAN2517N | MTAN2517R | MTAN2517W | MTAN3517N | MTAN3517R | MTAN3517W



— — — — —

| | | | | | | |
|----|------|------|------|------|------|------|
| øD | 4.8 | 4.8 | 5.1 | 4.8 | 4.8 | 5.1 |
| C | 2.5 | 2.5 | 2.5 | 3.5 | 3.5 | 3.5 |
| B | 12° | 12° | 12° | 12° | 12° | 12° |
| A | 17° | 17° | 17° | 17° | 17° | 17° |
| H | 2.24 | 2.64 | 3.54 | 2.24 | 2.64 | 3.54 |



— | MTAN3530N | MTAN3530R | MTAN4530N | MTAN4530R

| | | | | |
|----|------|------|------|------|
| øD | 4.8 | 4.8 | 4.8 | 4.8 |
| C | 3.5 | 3.5 | 4.5 | 4.5 |
| B | 12° | 12° | 12° | 12° |
| A | 30° | 30° | 30° | 30° |
| H | 2.24 | 2.64 | 2.24 | 2.64 |



4

Zirconia Implant

Two Piece

—

Ceramic Abutment



Pure Zirconia Fixture

—



4. Zirconia Implant - Two Piece

Why Zirconia?

Safety

- it's a Non-metallic that don't produce allergic reactions, which can be applied to everyone.
- Maintains healthier gums with fewer plaque than titanium
- Prevention of peri- implantitis

Active Trust

- Hypoallergenic, superior biocompatible material
- Various crowns available because Various abutment

Aesthetic Impression

- It has excellent aesthetic qualities with a color similar to teeth.
- No discoloration of gums compared to titanium

Continuity

- corrosion- free ceramic material
- Strong in deformation due to low elastic constants
- Better heat resistance than metal, less responsive to hot and cold.

Another Strength of Happy's Implants
**To block a bad breath and inflammation
 by blocking foreign substances**

Ruber Seal

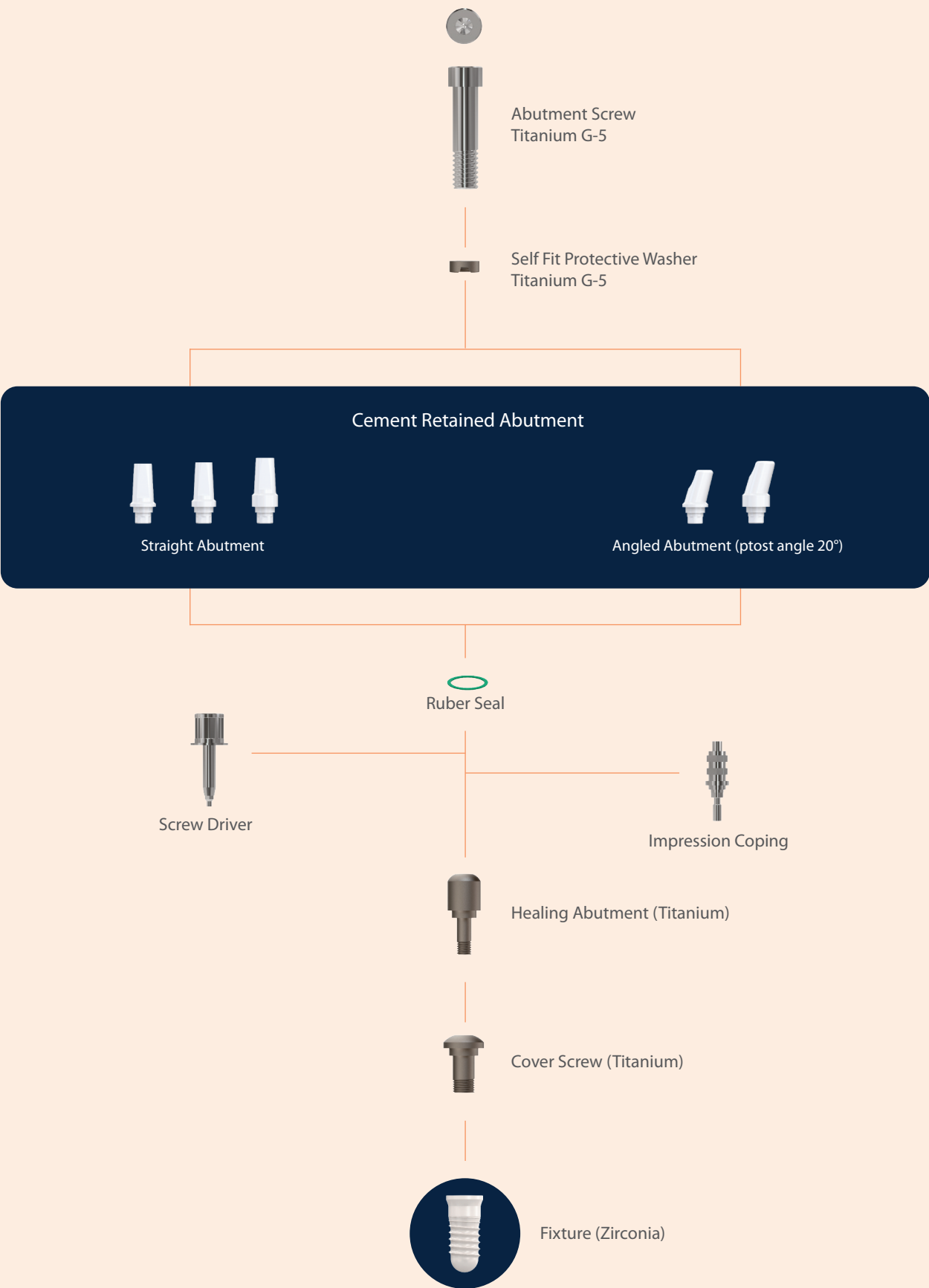
2 out of 10 implant patients have side effects
 Among them, 37% have inflammation around the implant.

(Source:Korea Consumer Resources)

- The rubber seal fills the fine gap between the abutment and the fixture to block foreign substances and maintain cleanliness inside the fixture.
- The Ruber seal has elastic that is not destroyed by impact, is the world's first developed Happy technology that keeps your gums cleaner and healthier.



Tissue Level Zirconia Implant System Flow Chart



4. Zirconia Implant - Two Piece

Tissue Level Zirconia Fixture



Abutment Screw (Ti-G5)



Self Fiit Protective Washer (Ti-G5)



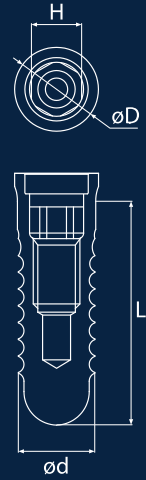
Ruber Seal

Straght Fixture

ACF4110 | ACF4112 | ACF4114 | BCF4108 | BCF4110 | BCF4112 | BCF4114



| | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|
| øD | 4.5 | 4.5 | 4.5 | 4.8 | 4.8 | 4.8 | 4.8 |
| ød | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| L | 10 | 12 | 14 | 8 | 10 | 12 | 14 |
| H | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |



CCF4808 | CCF4810 | CCF4812 | CCF4814



| | | | | |
|-----------|-----|-----|-----|-----|
| øD | 5.5 | 5.5 | 5.5 | 5.5 |
| ød | 4.8 | 4.8 | 4.8 | 4.8 |
| L | 8 | 10 | 12 | 14 |
| H | 3.0 | 3.0 | 3.0 | 3.0 |

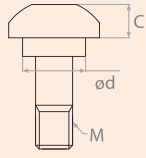
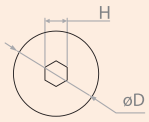
Tapered Fixture

DCF4810 | DCF4812 | DCF4814 | ECF5610 | ECF5612 | ECF5614



| | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|
| øD | 6.5 | 6.5 | 6.5 | 7.5 | 7.5 | 7.5 |
| ød | 4.8 | 4.8 | 4.8 | 5.6 | 5.6 | 5.6 |
| L | 10 | 12 | 14 | 10 | 12 | 14 |
| H | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |

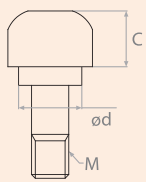
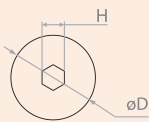
Cover Screw



| | ATS18 | BTS18 | CTS18 | DTS18 | ETS18 |
|-----------|-------|-------|-------|-------|-------|
| øD | 4.6 | 4.9 | 5.6 | 6.6 | 7.6 |
| H | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| ød | 3.4 | 3.4 | 4.0 | 4.0 | 4.0 |
| C | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| M | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

4. Zirconia Implant - Two Piece

Healing Abutment



| | ATH30 | ATH50 | BTH30 | BTH50 |
|-----------|-------|-------|-------|-------|
| øD | 4.55 | 4.55 | 4.85 | 4.85 |
| H | 1.2 | 1.2 | 1.2 | 1.2 |
| ød | 3.4 | 3.4 | 3.4 | 3.4 |
| C | 3.0 | 5.0 | 3.0 | 5.0 |
| M | 2.0 | 2.0 | 2.0 | 2.0 |

| | CTH30 | CTH50 | DTH30 | DTH50 | ETH30 | ETH50 |
|-----------|-------|-------|-------|-------|-------|-------|
| øD | 5.55 | 5.55 | 6.55 | 6.55 | 7.55 | 7.55 |
| H | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| ød | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| C | 3.0 | 5.0 | 3.0 | 5.0 | 3.0 | 5.0 |
| M | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

4. Zirconia Implant - Two Piece

Tissue Level Ceramic Cement Retained Abutment



Abutment Screw (Ti-G5)



Self Fit Protective Washer (Ti-G5)



Rubber Seal

Straight Abutment

ACS0570

ACS1070

ACS2065

BCS0570

BCS1070

BCS2065



-

-

-

 $\varnothing D$

4.5

4.5

4.5

4.8

4.8

4.8

C

0.5

1.0

2.0

0.5

1.0

2.0

L

7.0

7.0

6.5

7.0

7.0

6.5

H

2.7

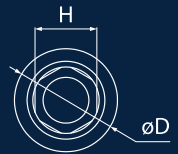
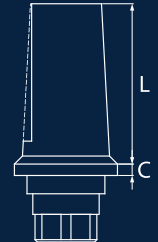
2.7

2.7

2.7

2.7

2.7



CCS0555

CCS1055

CCS2055

 $\varnothing D$

5.5

5.5

5.5

C

0.5

1.0

2.0

L

5.5

5.5

5.5

H

3.0

3.0

3.0

Angled Abutment (post angle 20°)

ACA056015

ACA206015

BCA056015

BCA206015

CCA056015

CCA206015

 $\varnothing D$

4.5

4.5

4.8

4.8

5.5

5.5

C

0.5

2.0

0.5

2.0

0.5

2.0

L

6.0

6.0

6.0

6.0

6.0

6.0

H

2.7

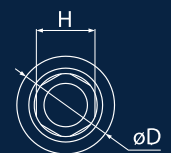
2.7

2.7

2.7

3.0

3.0

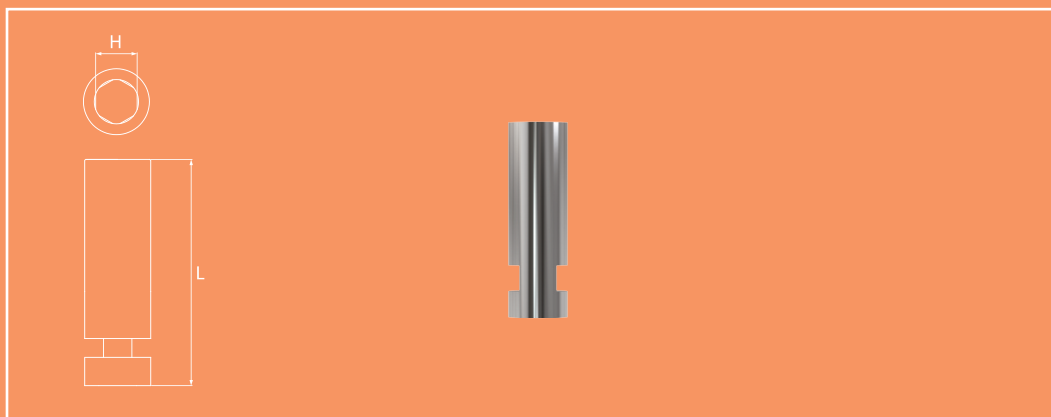


Precautions for Ceramic abutment

1. Completely attach ceramic implants to the gypsum model to make sure that there is no movement and then preparation. A small movement can cause hexagonal crack in the abutment due to the preparation movement.
2. If the cuff is preparationed, use diamond sand paper #800 or more to polishing the processing part.
3. This product has a high hardness, So it can be easily preparation using diamond tools or tools with good cutting power. (270,000 to 300,000 rpm)
4. If you have a lot of frills, you can preparation them using the diamond wheel of the bench grinder after attach them to the analog.

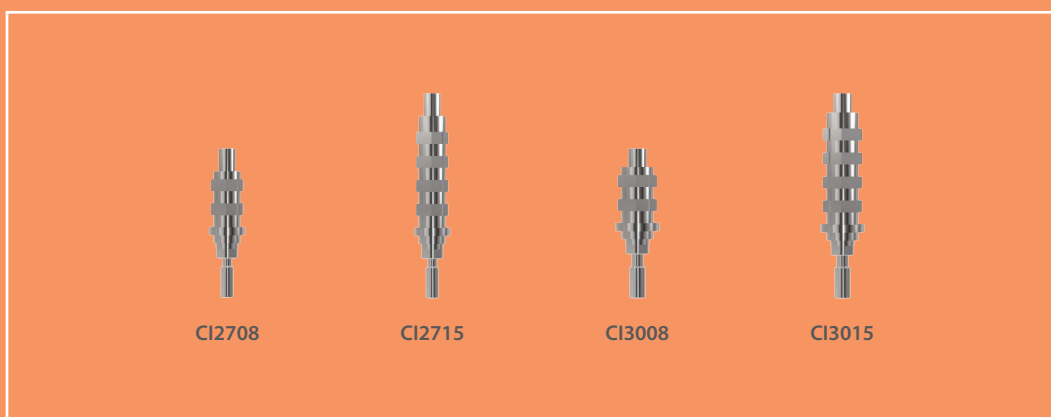
* must observe a Precautions that on the catalog

Analog



| | CFA021 | CFA025 |
|---|--------|--------|
| H | 2.7 | 3.0 |
| L | 12 | 12 |

Impression coping



CI2708

CI2715

CI3008

CI3015



5

One Body
Zirconia Implant

—
—

Why One Body Zirconia?

Pure Zirconia One Body Solution

Made of 99.5% pure zirconium,
it keeps your healthy from various side effects.

One Body Zirconia Implant



Ergonomic design

The most ideal design for ergonomically designed, inclined upper structure and teeth position



High cost-effectiveness

Quality, Cost Innovative Products with HappyL's Innovative Manufacturing Method




























Various kinds

happyL have 10 different types implant, it's extensive choice depending on individual tooth structure

5. One Body Zirconia Implant

Onebody Zirconia Implant System

| Zirconia Fixture | Lab. Analog | Zirconia Coping | Fixture Driver | |
|--|---|---|--|--|
| | | | For Wrench | For Machine |
|  LIK-10 |  LIK-10A |  LIK-10P |  LIK-10WD |  LIK-10MD |
|  LIK-13 |  LIK-13A |  LIK-13P |  LIK-13WD |  LIK-13MD |
|  UI-11 |  UI-11A |  UI-11P |  UI-11WD |  UI-11MD |
|  UI-13 |  UI-13A |  UI-13P |  UI-13WD |  UI-13MD |
|  PM-12 |  PM-12A |  PM-12P |  PM-12WD |  PM-12MD |

One Body Zirconia Implant System

| Zirconia Fixture | Lab. Analog | Zirconia Coping | Fixture Driver | |
|--|---|---|---|---|
| | | | For Wrench | For Machine |
|  PM-13 |  PM-13A |  PM-13P |  PM-13WD |  PM-13MD |
|  M-11 |  M-11A |  M-11P |  M-11WD |  M-11MD |
|  M-12 |  M-12A |  M-12P |  M-12WD |  M-12MD |
|  SUI-12 |  SUI-12A |  SUI-12P |  SUI-12WD |  SUI-12MD |
|  SUI-12L |  SUI-12LA |  SUI-12LP | — SUI-12LWD | — SUI-12LMD |



6

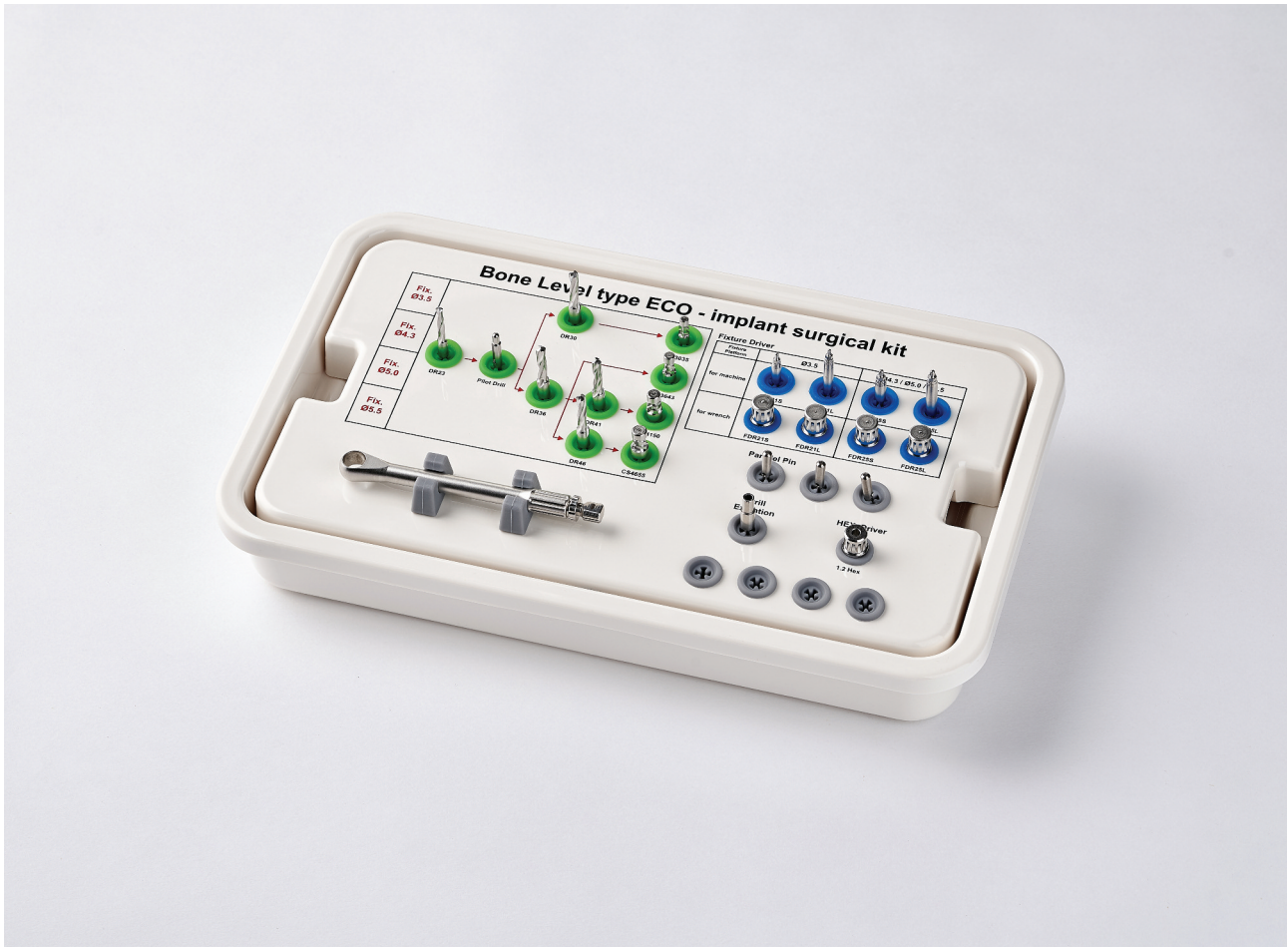
Surgical Tools

Eco-Surgical Kit

Water Proof Eco-Surgical Kit

Eco-Surgical Kit For World Market

Ceramic Implant Surgical Kit

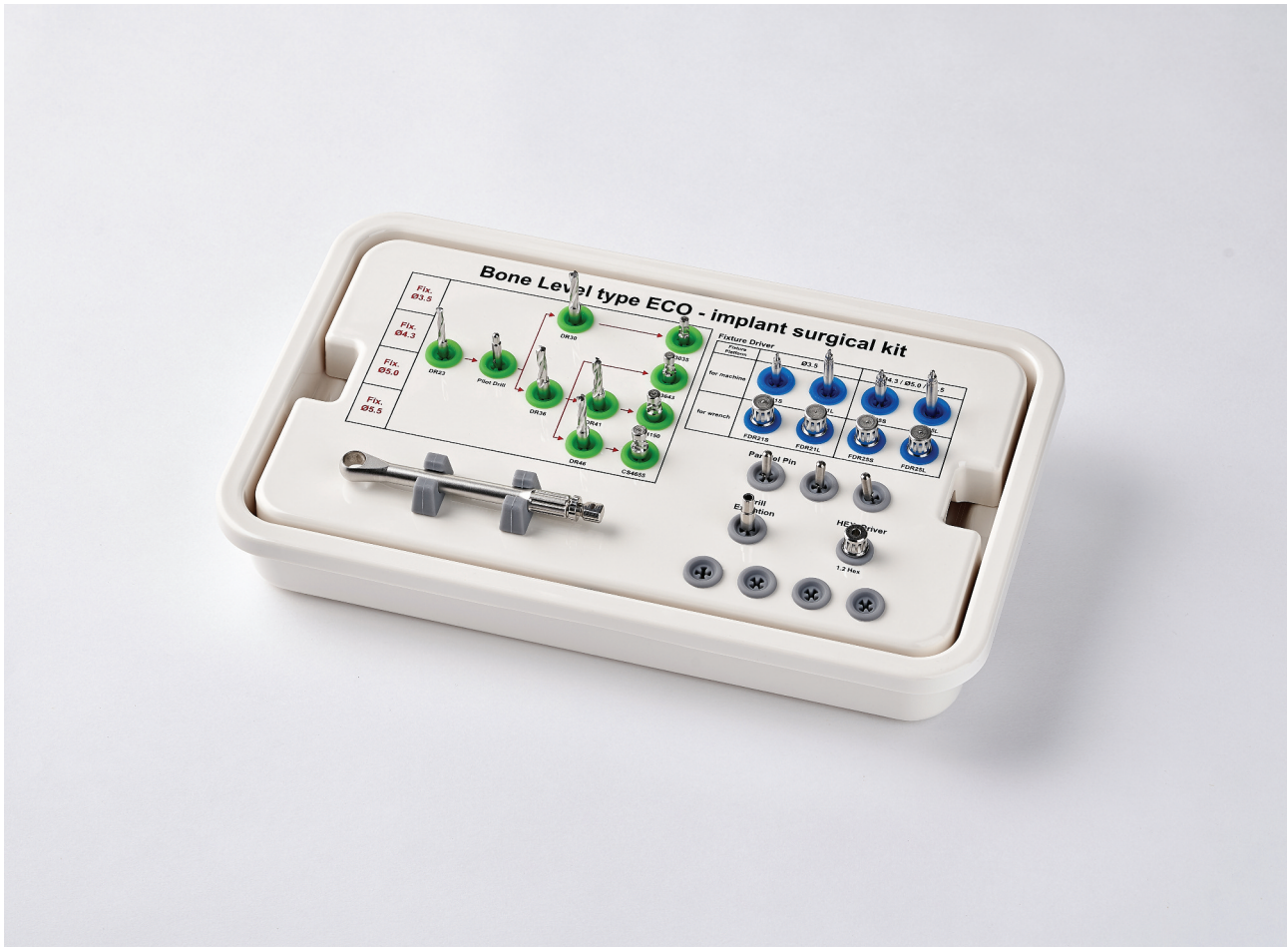


Tool List

| No. | Tool Name | Model No. | No. | Tool Name | Model No. |
|-----|----------------------|-----------|-----|----------------------------|-----------|
| 1 | Steel Drill | DR23 | 13 | Fixture Driver for Machine | FDC21S |
| 2 | Steel Drill | DR30 | 14 | Fixture Driver for Machine | FDC21L |
| 3 | Steel Drill | DR36 | 15 | Fixture Driver for Machine | FDC25S |
| 4 | Steel Drill | DR41 | 16 | Fixture Driver for Machine | FDC25L |
| 5 | Steel Drill | DR45 | 17 | Fixture Driver for Machine | FDR21S |
| 6 | Pilot Drill | PD2330 | 18 | Fixture Driver for Machine | FDR21L |
| 7 | Steel counter sinker | CS3035 | 19 | Fixture Driver for Machine | FDR25S |
| 8 | Steel counter sinker | CS3641 | 20 | Fixture Driver for Machine | FDR25L |
| 9 | Steel counter sinker | CS4150 | 21 | Drill Extension | HDX T |
| 10 | Steel counter sinker | CS4655 | 22 | Hex.Driver | HEX D12 |
| 11 | Depth gage | HDX2314 | 23 | Torque Wrench | HTW350 |
| 12 | Paraller Pin | HPP2314 | | | |

6. Surgical Tools

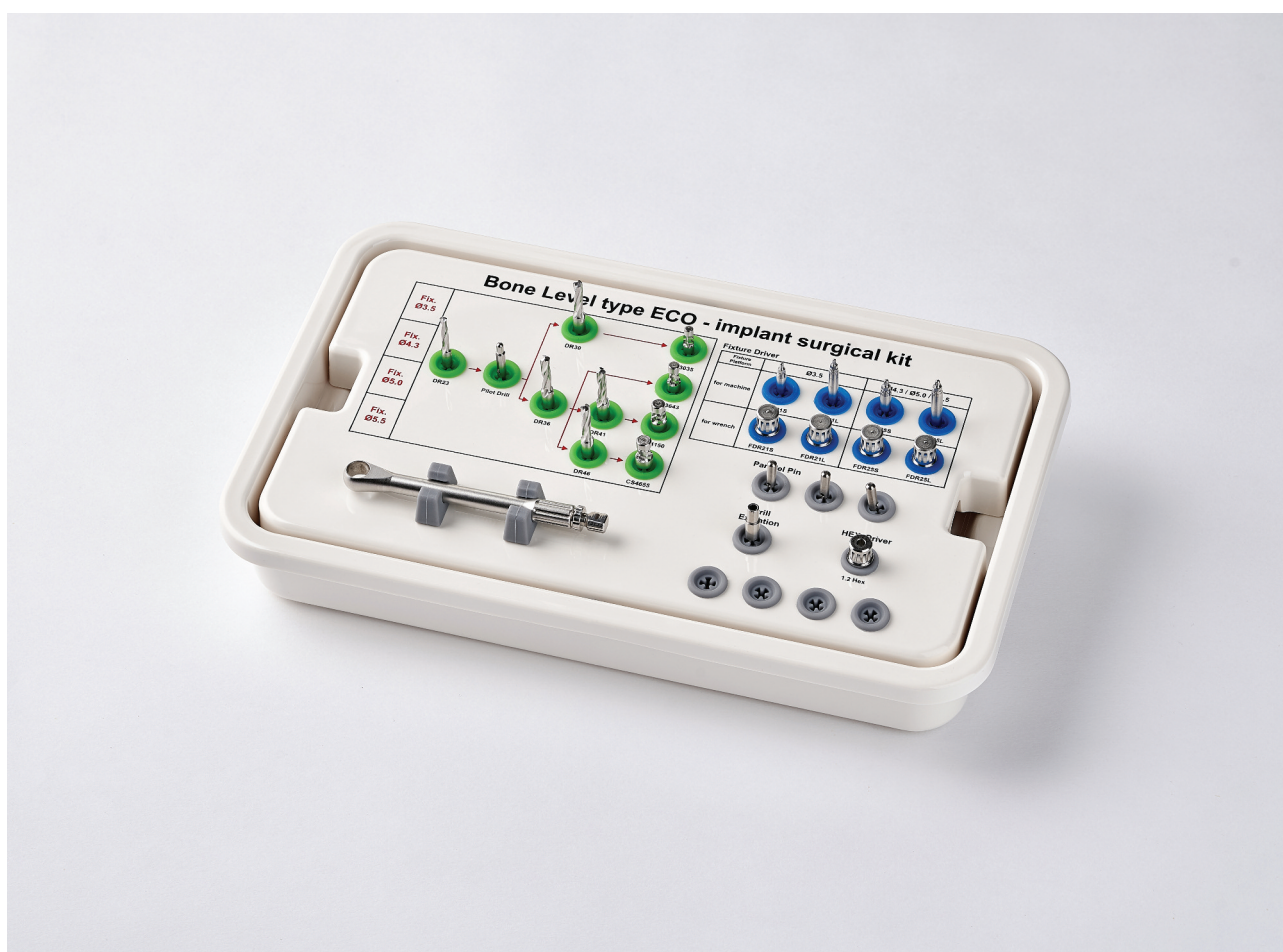
Water Proof Eco-Surgical Kit



Tool List

| No. | Tool Name | Model No. | No. | Tool Name | Model No. |
|-----|----------------------|-----------|-----|----------------------------|-----------|
| 1 | Steel Drill | DR23 | 13 | Fixture Driver for Machine | FDC21SW |
| 2 | Steel Drill | DR30 | 14 | Fixture Driver for Machine | FDC21LW |
| 3 | Steel Drill | DR36 | 15 | Fixture Driver for Machine | FDC25SW |
| 4 | Steel Drill | DR41 | 16 | Fixture Driver for Machine | FDC25LW |
| 5 | Steel Drill | DR45 | 17 | Fixture Driver for Machine | FDR21SW |
| 6 | Pilot Drill | PD2330 | 18 | Fixture Driver for Machine | FDR21LW |
| 7 | Steel counter sinker | CS3035 | 19 | Fixture Driver for Machine | FDR25SW |
| 8 | Steel counter sinker | CS3641 | 20 | Fixture Driver for Machine | FDR25LW |
| 9 | Steel counter sinker | CS4150 | 21 | Drill Extension | HDX T |
| 10 | Steel counter sinker | CS4655 | 22 | Hex.Driver | HEX D12 |
| 11 | Depth gage | HDG2314 | 23 | Torque Wrench | HTW350 |
| 12 | Paraller Pin | HPP2314 | | | |

Eco-Surgical Kit For World Market



Tool List

| No. | Tool Name | Model No. | No. | Tool Name | Model No. |
|-----|----------------------|-----------|-----|----------------------------|-----------|
| 1 | Steel Drill | DR23 | 13 | Fixture Driver for Machine | FDC21SN |
| 2 | Steel Drill | DR30 | 14 | Fixture Driver for Machine | FDC21LN |
| 3 | Steel Drill | DR36 | 15 | Fixture Driver for Machine | FDC25SN |
| 4 | Steel Drill | DR41 | 16 | Fixture Driver for Machine | FDC25LN |
| 5 | Steel Drill | DR45 | 17 | Fixture Driver for Machine | FDR21SN |
| 6 | Pilot Drill | PD2330 | 18 | Fixture Driver for Machine | FDR21LN |
| 7 | Steel counter sinker | CS3035 | 19 | Fixture Driver for Machine | FDR25SN |
| 8 | Steel counter sinker | CS3641 | 20 | Fixture Driver for Machine | FDR25LN |
| 9 | Steel counter sinker | CS4150 | 21 | Drill Extension | HDX T |
| 10 | Steel counter sinker | CS4655 | 22 | Hex.Driver | HEX D12 |
| 11 | Depth gage | HDG2314 | 23 | Torque Wrench | HTW350 |
| 12 | Paraller Pin | HPP2314 | | | |

6. Surgical Tools

Ceramic Implant Surgical Kit



Tool List

| No. | Tool Name | Model No. | No. | Tool Name | Model No. |
|-----|----------------------------|-----------|-----|----------------------------|-----------|
| 1 | Ceramic Drill | CDR230 | 12 | Fixture Driver For Machine | FDMS55 |
| 2 | Ceramic Drill | CDR300 | 13 | Fixture Driver For Machine | FDML55 |
| 3 | Ceramic Drill | CDR370 | 14 | Fixture Driver For Wrench | FDWS45 |
| 4 | Ceramic Drill | CDR420 | 15 | Fixture Driver For Wrench | FDWL45 |
| 5 | Pilot Drill | PD2330 | 16 | Fixture Driver For Wrench | FDWS55 |
| 6 | Ceramic Counter Sink | CDR3741CS | 17 | Fixture Driver For Wrench | FDWL55 |
| 7 | Ceramic Counter Sink | CDR4248CS | 18 | Depth gage | HDG2314 |
| 8 | Ceramic Counter Sink | CDR4260CS | 19 | Parallel Pin | HPP2330 |
| 9 | Ceramic Counter Sink | CDR4265CS | 20 | Drill Extension | HDX Y |
| 10 | Fixture Driver For Machine | FDMS45 | 21 | HEX, Driver(1.2) | HEX D12 |
| 11 | Fixture Driver For Machine | FDML45 | 22 | Torque Wrench | HTW350 |



Next-generation customized solutions

HappyL Implant



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