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SCAN ME

COWELL®
IMPLANT
SYSTEM

COWELL®
Implant System

More than 20 years of clinical outcomes

Cowellmedi Co., Ltd.
The pioneers in Dental Implant & E.rhBMP-2

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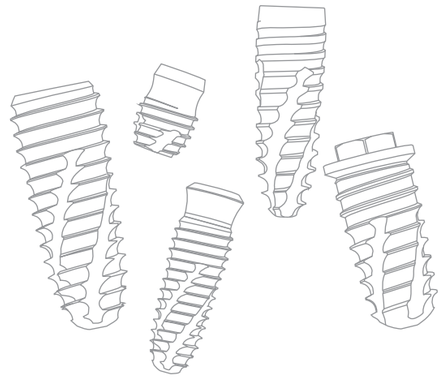


CWM
Cowellmedi Co., Ltd.
The pioneers in Dental Implant & E.rhBMP-2

Process Flow Chart

CNC Machining

Precise machining process using state of the art computer numerical control system fused to the COWELL® Class 1000, operated by world-class technical unit.

Surface Treatment

The SLA-SH® Surface treatment with biologically active materials to achieve the ideal Osseointegration.

Inspection

Absolutely accurate test and quality control system with cutting edge equipment such as optical profiling measurer, stereoscopic microscope, micrometer scope and other specialized devices for dental implant manufacturing.

Cleansing

Cleansing process by ultrasonic wave using the 3rd stilled distilled, vacuum dry and heating dry sterilization enable ultimately sterilized products and no residues are left on products.

Packing / Sterilization

Sanitarily packed products at Class 10,000 clean room are sterilized by gamma-ray using radiation isotope.

Shipping Warehouse

Finished products are sorted and stored in warehouse for immediate delivery.

COWELL® Warranty

*** For more details, visit our website at www.cowellmedi.com**

1. Guarantee beneficiary and scope

Products	Period	Conditions	Remarks
Implant	Lifetime	Replacement with equivalent Implant	The period shall begin from the sale date

2. Scope of Warranty
   1) Quality benefits
      > In case the product material or the manufacture process is flawed.
   2) Surgical benefits
      > In case implants fail to be grafted to the bone.

3. Claim Procedure
   1) In case certain faults occur after transplanting implants (procedure), the staff in charge shall be contacted within 30 days thereafter.
   2) When such contact is made, the Customer Complaint Report shall be written out, and shall be submitted together with the concerned product.

4. Exclusions from Warranty Service
   1) In case implants are transplanted onto patients with diabetics and alcohol addiction.
   2) In case implants are transplanted onto patients for whom surgical procedures are difficult to perform due to the history of systematic disease.
   3) In case implants are transplanted onto patients who depend on habitual medications.
   4) In case the procedure is not conducted according to the protocol of the COWELLMEDI.
   5) In case the procedure is not performed in compliance with biological indication : (E.g. distance between buccal wall and implant should be at least 2mm).
   6) In case the procedure is conducted using contaminated surgical devices.
   7) In case implants are transplanted onto patients who sustain or are infected with cell issue contamination.
   8) In case other materials from other companies are mix used with Implants, prosthetic parts and instruments of the COWELLMEDI.
   9) In case the result of investigation by COWELL R&D Institute, Div. of QA and QC shows the issue is not related to the products manufactured and provided by the COWELLMEDI.
   10) In case the information hereby requested, especially, product Lot no., Serial no. or X-ray photos, is missing.
   11) In case that the concerned products are not returned.
   12) In case the product is damaged due to negligence of handling.
   13) In case the product is opened and fails to remain sterilized.
   14) In case that the expiry date of the concerned product (not opened products only) is not longer than 1/4.

Package System

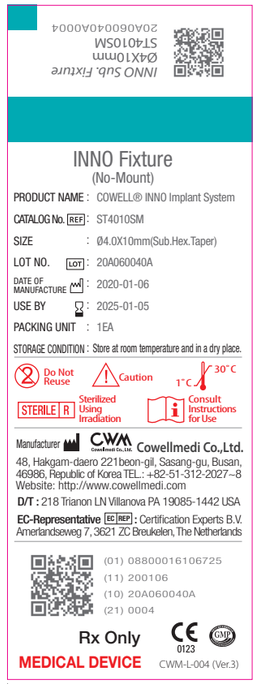
1. Color classification (Coding) by fixture type and external label marking

A. Color classification by fixture type

Fixture type	Submerged (Sub.)	Submerged Short (Sub.)	Internal (Int.)	External (Ext.)	Submerged Narrow (Sub-N.)	Mini Cement (1P-C.)	Mini Ball (1P-B.)
Package							
Connection	SUB. HEXAGON SYSTEM		INT. OCTAGON SYSTEM	EXT. HEXAGON SYSTEM	SUB-N. HEXAGON SYSTEM	MINI Plus IMPLANT SYSTEM	
	Blue		Orange	Green	Emerald	Pink	

B. External label marking and color coding by fixture diameter & fixture type

> Color coding by diameter on the external label.
> Reuse is prohibited after opening as the product is sterilized.
> After the ampule is opened, care should be taken from dropping which may cause by incomplete fastening.
> Care should be taken from infection after the product is opened and store at room temperature and in a dry place.
> Discard expired products.



* Ex.) INNO SLA-SH® Sub. Fixture (No-Mount)
Dimension : Ø4.0X10mm

Do Not Reuse | 1°C 30°C | Caution | STERILE R Sterilized Using Irradiation | Consult Instructions for Use

Fixture Type(abbr.) \ Diameter	Ø2.5	Ø3.0	Ø3.1	Ø3.3	Ø3.5	Ø4.0	Ø4.5	Ø5.0	Ø5.5	Ø6.0
	Bisque	Green	Burgundy	Orange	Yellow	Emerald	Red	Pink	Violet	Gray
Submerged (Sub.)	–	–	–	–	✓	✓	✓	✓	–	✓
Submerged Short (Sub.)	–	–	–	–	–	✓	✓	✓	✓	✓
Internal (Int.)	–	–	–	–	✓	✓	✓	✓	–	✓
External (Ext.)	–	–	–	–	✓	✓	✓	✓	–	✓
Submerged Narrow (Sub-N.)	–	–	✓	✓	–	–	–	–	–	–
Mini Cement (1P-C.)	✓	✓	–	–	–	–	–	–	–	–
Mini Ball (1P-B.)	✓	✓	–	–	–	–	–	–	–	–

2. Fixture user guide (Embedded in the packaging)

COWELL® IMPLANT SYSTEM Instructions for Use

1. Device Description
The COWELLMEDI implant system includes a variety of precision-machined fixtures manufactured from titanium. These implants are surgically inserted into a mandible (the lower jawbone) or a maxillary bone (the upper jawbone) and serve as a replacement for patient's tooth root providing a stable foundation for restoration.

2. Intended for use
To support dental prosthesis as a dental device, which is implanted into alveolar bone to recover masticatory function and give better esthetics in patients with partially or full edentulous jaws.

3. Directions for use
1) Surgery - The first stage
a. According to the patient's condition, appropriate dental cleaning operations may be performed and preventive antibiotics may be administered prior to implant operation.
b. Clean and disinfect the operative site, administer local anesthesia in the area and expose the alveolar bone by making appropriate incisions and reflecting the gingival tissues along the alveolar crest in the area from where teeth were extracted.
c. Drill into the gum in order to implant a fixture into the planned place with various dental operation tools. The speed of revolution of the drill should be adjusted by the condition of the bone and the kinds of operation tools. Saline solution should be poured onto the area so that necrosis doesn't occur by heating of the bone (The speed for all drilling should be less than 1,200 rpm).
d. Remove the external sterile package cover sheet : open the cap of the ampule: affix the Fixture Driver (in case of No-mount Fixture) or the Mount Driver (in case of Pre-mount Fixture) to the Hand-piece and connect it to the fixture : move the assembled piece to the osteotomy site for the implant using care to prevent the assembled piece from being separated or contaminated with foreign materials.
e. A fixture is implanted into the bone as planned depth by turning (25~30 rpm) a hand-piece clockwise with 15~50 N.cm torque. In event that it is hard to insert, extend width of bone by Tap Drill or Countersink (less than 1,200 rpm) in order to facilitate better implantation.
f. After finishing implantation, the treated part should be sutured by using a hex driver to connect to the Cover Screw with torque 5 N.cm to prevent the intrusion of a foreign substance in the fixture.
2) Surgery - The second stage
a. Incise gingival of upper part of fixture subsequent to bone fusion and remove Cover Screw, tighten up Healing Abutment and start gingival curing for prosthesis.
b. In general, surgery is done by a method that makes prosthesis.

4. Contraindication
The operation should be reconsidered when the patient has any of the following conditions.
a. Patient with oral infection or inflammation.
b. In the case of low quality bone which will result in an unstable implant.
c. Patients who have a drinking problem or mental disease or substance or medicine abuse.
d. Internal disease such as hematodyscrasia or diabetes and undernourishment.
e. Any patient who is not suitable for operation.

5. Warnings
Implant surgery and restoration involves complex dental procedures. For safe and effective use of the COWELLMEDI fixtures, it is strongly suggested that specialized training be undertaken since the surgical techniques required to place dental implants are highly specialized and complex procedures. Improper patient selection and technique can contribute to fixture failure and/or loss of supporting bone. the COWELLMEDI fixtures are intended for use only in the indicated applications. Dental fixtures must not be altered in any way. The use of electro-surgical instruments or lasers around metallic fixtures and their abutments is not recommended due to the risk of electric shock and/or burns. Fixture mobility, bone loss, or chronic infection may indicate fixture failure. The treatment should be done in an aseptic condition by an operator who wears an aseptic costume. If the fixture becomes contaminated by the patient's body fluids in any way, the fixture cannot be used in any other patient.

6. Precautions
The surgical techniques required to place endosseous dental fixtures require specialized and complex procedures. Formal training for placement of fixtures is recommended.
Important : Determine local anatomy and suitability of the available bone for fixture placement. Thorough screening of prospective fixture candidates must be performed. Visual inspection as well as panoramic and periapical radiographs are essential to determine anatomical landmarks, occlusal conditions, periodontal status, and adequacy of bone. Lateral cephalometric radiographs, CT scans and tomograms may also be beneficial. Adequate radiographs, direct palpation and visual inspection of the fixture site are necessary prior to treatment, planning and use of the COWELLMEDI fixtures.

7. Adverse Effects
Some of the complications (loss of fixture anchorage, prosthesis etc.) are possible occurrences after surgery. Lack of quantity or poor quality of remaining bone, infections, poor patient oral hygiene or cooperation, patient discomfort, fixture mobility, local soft tissue degeneration, and unfavorable fixture placement or alignment are some potential causes for loss of anchorage.

8. Surgical complications
The implant procedure has risk, including localized swelling, dehiscence, tenderness of short duration, edema, hematoma or bleeding. Numbness of the lower lip and chin region following lower jaw surgery, and of the tissue beside the nose following upper jaw surgery, is a possible side-effect of the surgery. Though it would most probably be of a temporary nature, in very rare cases, the numbness has been permanent. Gingival-mucosal (gum tissue) ulceration, tissue reaction or infection may occur, but generally responds to local care.

9. How to manage after implanting the Product
a. The upper jaw requires a healing period of 6~8 months depending on the bone quality and the lower jaw requires a healing period of 3~5 months depending on the bone quality. If pressures such as mastication would be applied to the fixture during the healing period, early fixation may not be obtained or osseointegration may not occur for the fixture within the healing period.
b. Once the operator clinically determines that sufficient osseointegration has been achieved, he/she should begin the stages to produce the dental prosthesis.
c. The Lot number identification tag should be attached to a patient's chart and X-ray film in order to pursue the product when needs be.
d. The operator should determine the osseointegration status of the implant through X-ray and clinical methods such as percussion and/or reverse torquing.

10. Storage / Sterilization and Handling
a. Store at room temperature and in a dry place.
b. The fixture, fixture mount and cover screw have been cleaned and sterilized by radiation (gamma irradiation) and are ready to use.
c. Product packages should be opened just before their use during operation and any product beyond the expiration date should not be used.
d. Only appropriate sterilized surgical tools made specifically for dental implants should be used during the operation.

11. Expiration date
Expiration date of the product is 5 years from manufacturing.

12. Cleaning & Sterilization
Cleaning of surgical instruments supplied non-sterile should be performed according to current dental standard practices. Select a suitable method of cleaning that removes all visible contamination from the product in sterilized and distilled water. After cleaning, package the product appropriately and then sterilized by autoclave at the minimum condition of 250°F (121°C/15 mins).

13. Caution
a. As this product is sterilized by Gamma radiation, should not be used under any circumstances if is open.
b. Every product is disposable. It should not be reused.

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CE 0123 GMP | Do Not Reuse | 1°C 30°C | Caution | STERILE R Sterilized Using Irradiation | Consult Instructions for Use

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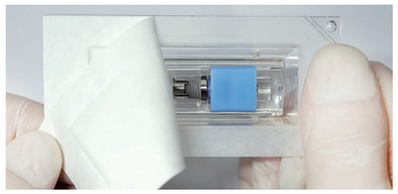
3. Fixture packaging opening and the sequence of the product extraction

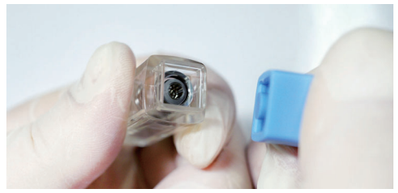
Taking out the ampule

1 To open, press the upper dotted area and take out the sterilized blister.



2 Remove the moisture-resistant paper on the back of the blister, and drop the ampule lightly on the palm of a practitioner or surgical clothes.

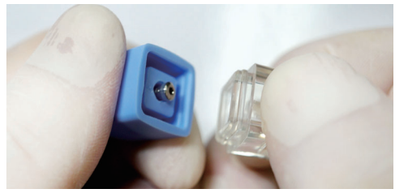
Fixture separation



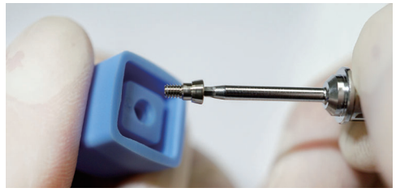
1 Hold the ampule with both hands, twist it 45°, and separate the middle part. Care should be taken so that the fixture will not fall.

2 Fasten in two ways.
1) No Mount -> Fasten the Fixture Driver.
2) Pre Mount -> Fasten the Mount Driver.

Cover Screw separation

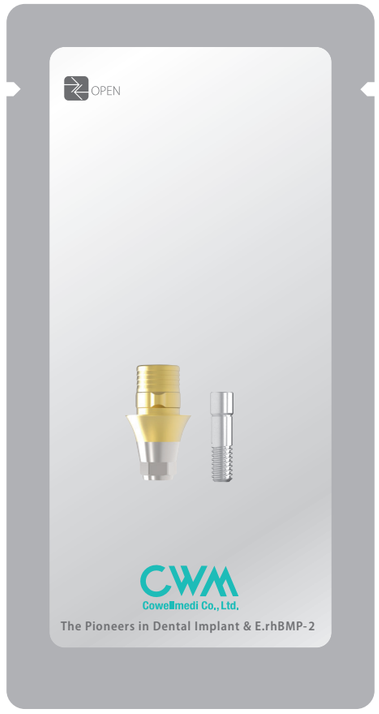


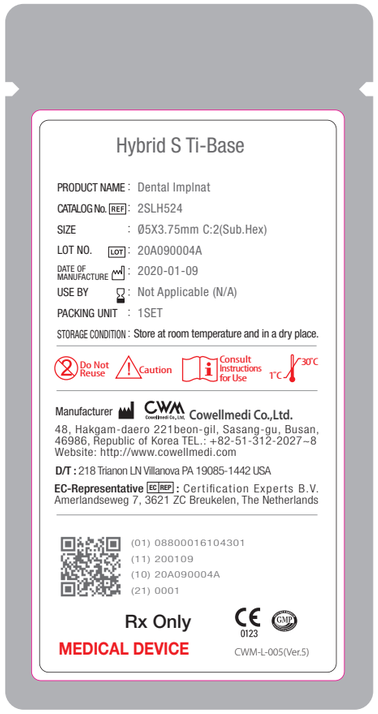
1 Separate the upper part of the ampule.



2 Fasten the Hex Driver to the Cover Screw completely. Care must be taken to prevent patient from swallowing the Cover Screw at the time of placing.

4. Abutment packaging and external label marking





5. Surgical Kit packaging and external label marking

Implant Innovation

When INNOVATION meets Dental Implant.

Experience the difference of SLA-SH®

made by "Nano/CaP soaking technology"

Superhydrophilicity, Uniform micro-surface geometry,
Maximized BIC and Acceleration of osseointegration

Aspiring for 100% perfection with SLA-SH®

by Nano/CaP soaking technology

SLA-SH® Surface Treatment

by Nano/CaP soaking technology

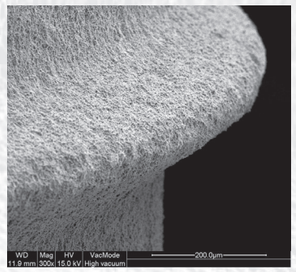
SLA-SH®:

Sandblasted, Large-grit, Acid-etched and Super-Hydrophilised

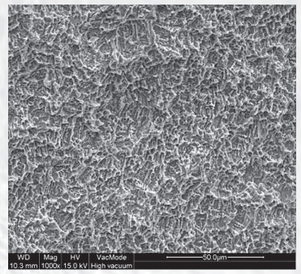
> Hydrophilicity by activation with neutralization solution & Nano/CaP soaking technology.
> Sandblasted with biocompatible grits unlike majority of other implants in market are done with Alumina.
> Macro-pore & micro-pore of Ti-oxide layer mimicking the etched enamel rod of tooth.
> Even distribution of roughness through the whole portion of implant surface.
> No destruction or alternation of the surface are caused even with torque force of 120 N.cm.
> Acceleration of osseointegration and maximization of BIC.
> The SLA-SH® is applied for all types of the COWELL® Implant Systems.

1. Evaluation using SEM (Scanning Electron Microscope) Images

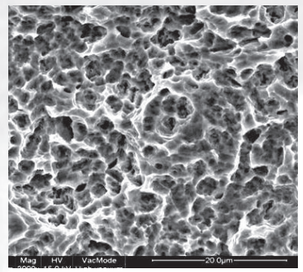
A. SLA-SH® Surface magnified X300, 1,000 and 3,000



X300

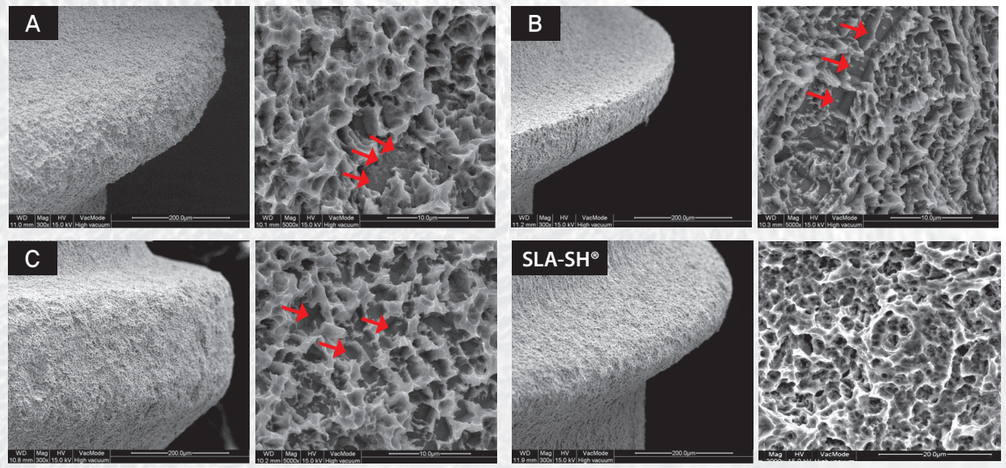


X1,000



X3,000

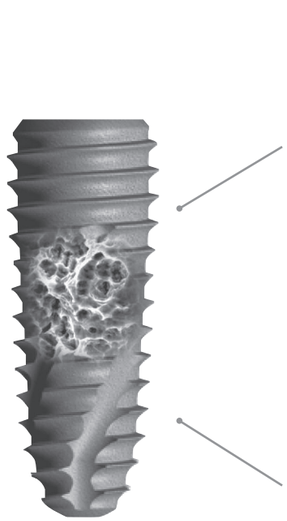
B. Comparison to other SLA treated implants currently sold in the market

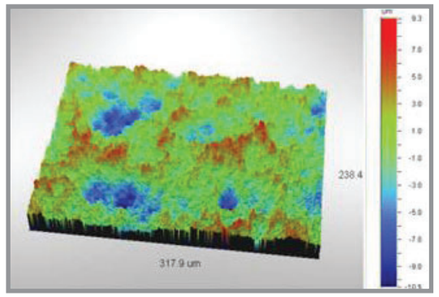


> Surface treatment patterns were observed on electron microscope photographs of 5,000 magnifications for top parts of the implants.
> Sand-blasted surface conditions were observed in the product A, B and C due to insufficient acid etching patterns in deep parts as the SLA-SH® is sandblasted with biocompatible grits with even particle size unlike others are done with alumina.
> The entire surface of the SLA-SH® treated implant showed uniform acid etching patterns. This implies that the acid etching of the SLA-SH® surface is perfect.

2. Evaluation using SSEM (Stereo Scanning Electron Microscope) 3D images

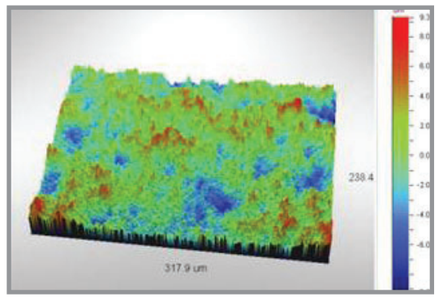
A. SLA-SH® Surface





Surface Stats
Ra : 1.80 ㎛
Rq : 2.27 ㎛
Rt : 18.49 ㎛

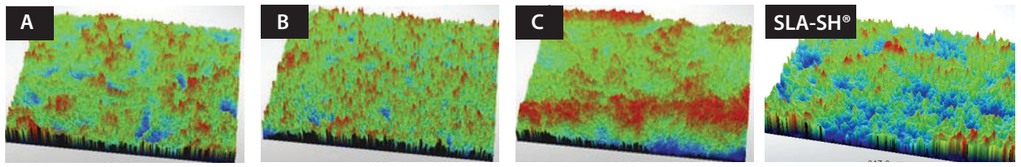
Measurement Info
Magnification : 19.93
Measurement Mode : VSI
Sampling : 496.74 nm
Array Size : 640 X 480



Surface Stats
Ra : 1.95 ㎛
Rq : 2.52 ㎛
Rt : 19.83 ㎛

Measurement Info
Magnification : 19.93
Measurement Mode : VSI
Sampling : 496.74 nm
Array Size : 640 X 480

B. Comparison to other SLA treated implants currently sold in the market



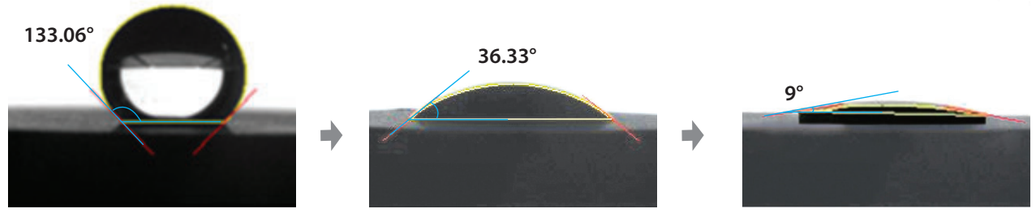
A	B	C	SLA-SH®
Upper Ra : 2.47㎛	Upper Ra : 1.07㎛	Upper Ra : 2.65㎛	Upper Ra : 1.80㎛
Lower Ra : 3.11㎛	Lower Ra : 1.13㎛	Lower Ra : 2.09㎛	Lower Ra : 1.95㎛
Deviation : 0.64㎛	Deviation : 0.06㎛	Deviation : 0.56㎛	Deviation : 0.15㎛

> Uniform distribution of Macro-pore and micro-pore.

> Roughness of the SLA-SH® showed 1.90um while the others were 1.08~3.11um.

3. The surface activity increased due to the great surface wetness

A. Contact angle measurement evaluation result for the saline solution



After SLA treatment (133.06°)

After hydrophilicity activation treatment (36.33°)

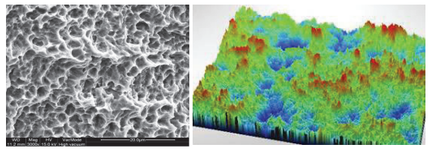
After superhydrophilicity activation treatment (9°)

After neutralization process and Nano/CaP soaking treatment, the sample became extremely hydrophilic and the surface energy increased, which facilitated expedition of osteoblast activation to be fused to the bone faster.

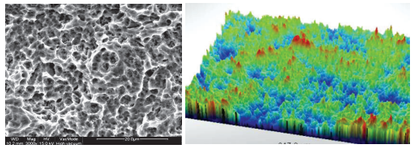
Capillarity in the actual clinical setting, which accelerated the penetration of blood.

※ **Quoted from the website of Cowellmedi Clinical Research Group (www.e-cowellmedi.com)**

B. Relation between surface wetness and roughness



After SLA treatment (Ra: 1.78㎛)



After super-hydrophilicity activation treatment (Ra: 1.90㎛)

> There was almost no difference of surface roughness and micro-geometry, and the difference of surface wetness took place in the same physicochemical properties as surface energy increased by hydrophilicity activation treatment.

C. Physicochemical alternation of surface by hydrophilicity activation treatment

Name	Start BE	Peak BE	End BE
C1s	290	284.6	280.5
O1s	535.3	530.42	525.6
Ti2p	468.1	458.78	450.4

After SLA treatment

Name	Start BE	Peak BE	End BE
C1s	290.46	284.6	284.6
O1s	538.8	533.73	529.3
Ti2p	468.2	456.76	453.4

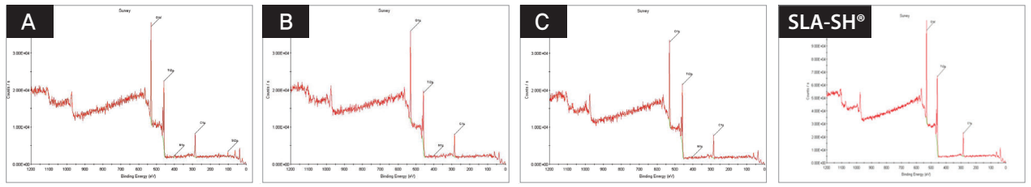
After hydrophilicity activation treatment

> Surface wetness was improved by increased surface energy of C1s, O1s and Ti2p after hydrophilicity activation treatment.

> To maintain and even to enhance surface wetness, superhydrophilicy activation treatment was carried out and contamination by carbon in the atmosphere is prevented during packing and sterilization.

4. Its safety has been proven through perfect cleaning with an automated system

A. Comparison of surface element tests through X-ray diffraction



> Cutting-edge automated system that produces the 3rd distilled water.

B. Comparison of surface element tests (X-ray Photo-electron Spectroscopy, XPS)

Unit : %

Sample	C1s	O1s	Ti2p	Si2p	N1s
A	34.12	45.05	15.11	5.24	0.47
B	31.84	46.49	15.22	4.87	1.57
C	32.19	47.58	17.58	2.65	N.D
SLA-SH®	27.19	50.81	17.61	N.D	N.D

> Quantitative analysis of each surface element found 30% carbon, 47% oxygen, 16% titanium and 4% silicon in all products.

> For the SLA-SH®, they only consisted of carbons(C1s), oxygen(O1s) and titanium(Ti2p).

> Sodium hydroxide, the main element of the alkali washing solution, combined with silicon(Si) to form water-soluble $Na_2SiO_2(OH)_2{\cdot}4H_2O$(water glass), which removed the other elements.

C. Comparison of elution tests using combustion ion chromatography

Unit : ppm

Sample	F^-	Cl^-	NO_2^-	SO_4^{2-}	Br^-	NO_3^-	PO_4^{3-}
A	N.D	0.024	0.027	0.002	N.D	0.031	N.D
B	N.D	0.027	0.019	0.002	N.D	0.030	N.D
C	N.D	0.071	0.020	N.D	N.D	0.023	N.D
SLA-SH®	N.D	N.D	N.D	N.D	N.D	0.032	N.D

> Similar ions were detected in all the products, but they are not harmful to human because their elements and quantities do not affect the human body and those have been proven in many studies.

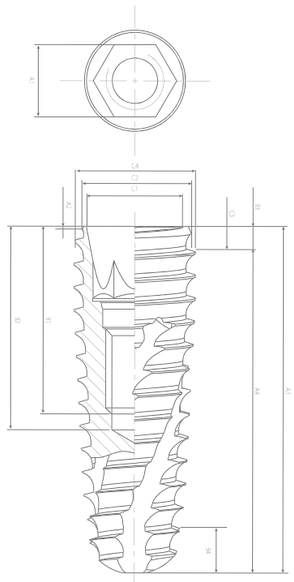
> For the SLA-SH®, no other elements except for NO_3^- were detected. Alkali washing completely removed the SO_4^{2-} and Cl^- ions of sulfuric acid and hydrochloric acid, which are used for heated acid etching because they form water-soluble salts of Na_2SO_4 and NaCl.

> No elements that interfere with osteo anagenesis were found from both the surface and elution elements, which showing that the cleansing process was perfectly carried out.

COWELL® CLASS 1000

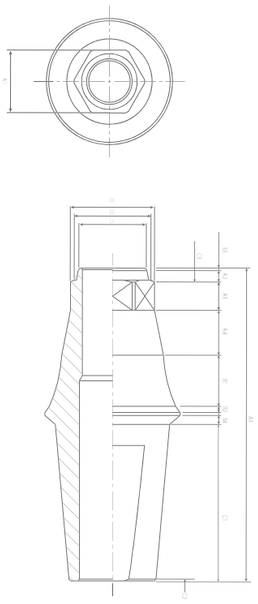
A SUBTLE DIFFERENCE MAKES THE DENTAL IMPLANT OR NOT

1. Fixture manufacturing tolerance evaluation



Evaluation Item	Manufacturing Tolerance				
Method	a. The specimen was fixed in Jig. b. Each dimensional difference of 3 inner hexagonal connection sides (Hex-1, Hex-2, Hex-3) of 5 specimens was measured.				
Used Equipment	Measuring Microscope and Jig				
Criteria	Each dimensional difference of 3 inner hexagonal sides should be no more than ±0.001mm (1.000㎛) from 2.500mm.				
Specimen	INNO SLA-SH® Submerged Fixture (5 Pieces of ST4510S)				
	#1	#2	#3	#4	#5
Hex-1	2.499	2.500	2.500	2.500	2.500
Hex-2	2.500	2.500	2.501	2.500	2.500
Hex-3	2.500	2.500	2.500	2.501	2.499
Average	2.500	2.500	2.500	2.500	2.500
Total Average	**2.500**				
Result (Pass/Fail)	**Pass**				
Manufacturing Tolerance	**No more than ±0.001mm (1.000㎛)**				

2. Prosthetic component manufacturing tolerance evaluation



Evaluation Item	Manufacturing Tolerance				
Method	a. The specimen was fixed in Micro-Measuring Instrument. b. Each dimensional difference of 3 outer hexagonal connection sides (Hex-1, Hex-2, Hex-3) of 5 specimens was measured.				
Used Equipment	Micro-Measuring Instrument				
Criteria	Each dimensional difference of 3 outer hexagonal connection sides should be no more than ±0.001mm (1.000㎛) from 2.490mm.				
Specimen	INNO SLA-SH® Sub. Cemented Abutment (5 Pieces of 2SCH4515)				
	#1	#2	#3	#4	#5
Hex-1	2.489	2.490	2.490	2.490	2.490
Hex-2	2.490	2.490	2.490	2.490	2.490
Hex-3	2.490	2.490	2.490	2.490	2.491
Average	2.490	2.490	2.490	2.490	2.490
Total Average	**2.490**				
Result (Pass/Fail)	**Pass**				
Manufacturing Tolerance	**No more than ±0.001mm (1.000㎛)**				

COWELL® IMPLANT SYSTEM

Help your daily practice superior

INNO Submerged Narrow Fixture

Designed for anterior esthetic zone with narrow alveolar ridge. Double tapered thread acquires higher primary stability through a wedge action.

INNO Submerged Short Fixture

Designed for severe bone resorption. Wide and deep upper thread prevents the compressive necrosis of the cortical bone.

Miniplus®

For mandible anterior spaces and edentulous arch. Semi-permanent or temporary solution for anterior spaces with extremely narrow ridge.

INNO Submerged Fixture

Designed for all clinical cases including immediate implant placement, immediate loading, implant depth adjustment, maxillary sinus and etc. Simply doing more for your implant treatment.

INNO External Fixture

Stable engraftment of periosteum in the boundary surface of bone and implant.

INNO Internal Fixture

One stage restoration with state of the art design. 4 spiral round cutting edges maximize the efficiency of self tapping with a sharp edge and accommodates bone chips as ideal cutting edge pocket space.

Volume-up™ Healing Abutment

Devised for preventing food penetration and forming aesthetical cervical area by restoring contracted buccal alveolar bone & gingiva to the original shape and width.

Meta G UCLA Abutment

Modification to angulated abutment, customized abutment and telescopic abutment.

Easy Temporary Abutment

Temporary restoration for anterior esthetic zone. For simpler and speedier chair-side process.

Angulated Abutment

Simple solution for anterior esthetic zone.

Milling Abutment

Block abutment to customize contouring.

Multi S&A and Lock Abutment

Designed for both edentulous and partially edentulous arches. A broad range of prosthetic options allows to meet individual requirements of your patients.

Ball Abutment

Designed for use with removable overdentures or partial dentures retained in whole or in part by endosseous implants in the maxilla and mandible.

Sonator 80's S&A Abutment

Allows you to treat your patients with minimum standard of care of an implant supported overdenture at affordable cost with great satisfaction.

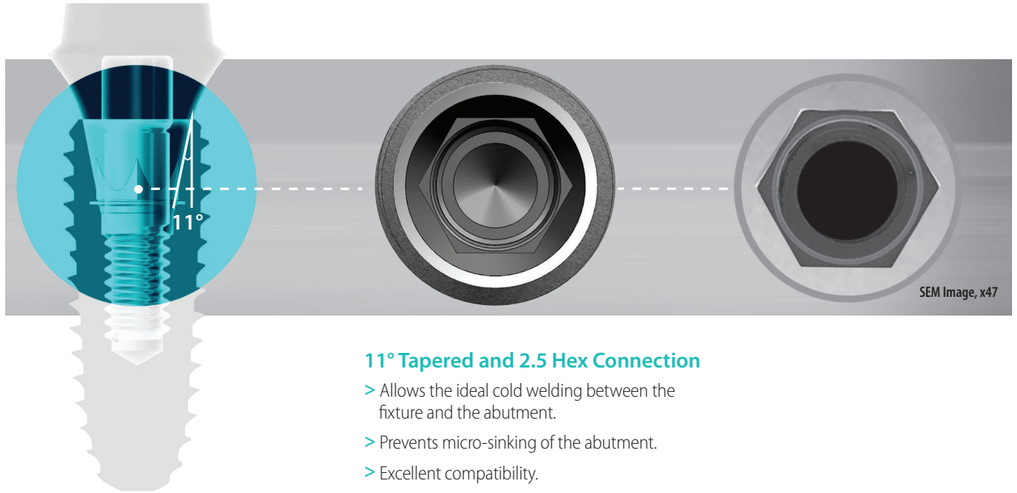
Cemented Abutment

Cutting surface is designed for anti-rotation of prosthesis.

Beauty-up™ Abutment

Specially designed to solve esthetical and functional challenges when SCRP with angulated screw channel is required in the anterior portion.

INNO-Fixture Design



11° Tapered and 2.5 Hex Connection

> Allows the ideal cold welding between the fixture and the abutment.

> Prevents micro-sinking of the abutment.

> Excellent compatibility.

Wide and deep upper thread

> Prevents the compressive necrosis of the cortical bone.

> Minimizes the need for Countersink Drills.

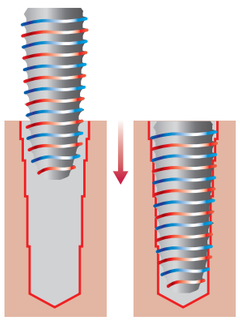
> Reinforces mechanical strength by reinforcing thickness.

Double Tapered Thread

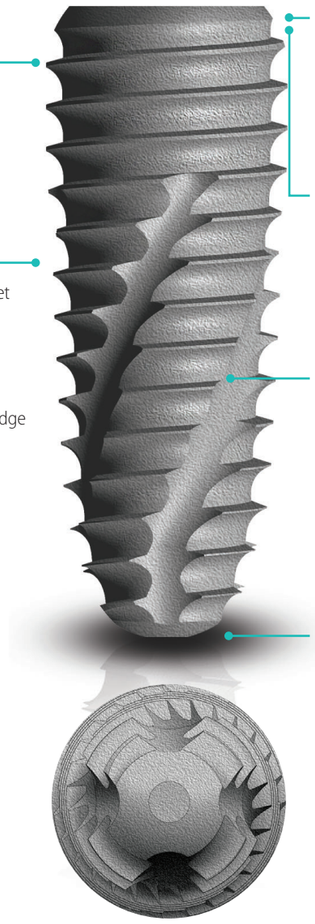
> Secures early fixation even for an alveolar socket or parts with weak bone quality.

> Allows placement to be completed with only 2-4 rotation with half the length of the fixture inserted in the drill hole.

> Acquires higher primary stability through a wedge action even with an additional half turn.



Shortens the placement time with 5mm or more of already entered depth as well as double thread.



Platform Neck

> Stable engraftment of periosteum in the boundary surface of bone and implant.

> Prevents possible infections around the implant.

Open Thread

> Possible to place deeper even without additional drilling.

4 spiral round cutting edges

> Maximize the efficiency of self tapping with a sharp edge.

> Accommodate bone chips as ideal cutting edge pocket space.

> Allow soft placement but higher initial stability (refer to the test table below).

Apex Thread with a sharp cutting edge

> Prevents schneiderian membrane from being ripped.

> Allows soft placement but higher initial stability (refer to the test table below).

※ Placement torque force (Unit: for 4pcs of Ø4.5X10mm implants from 4 different manufacturers in 5.0 & 5.5mm depth hole of type 2 bone quality test block.

Classification	INNO	A	B	C
Depth 5.0mm	26.2 N.cm	29.2 N.cm	26.8 N.cm	28.4 N.cm
Depth 5.5mm	44.0 N.cm	38.0 N.cm	34.4 N.cm	38.5 N.cm

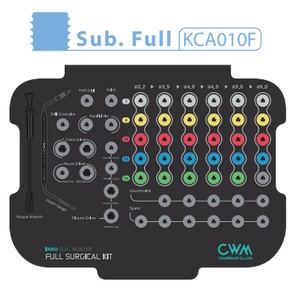
An advantageous design for all clinical cases including immediate implant placement & immediate loading, implant depth adjustment, maxillary sinus and etc.

Fixture type	Submerged (Sub.)	Submerged Short (Sub.)	Internal (Int.)	External (Ext.)	Submerged Narrow (Sub-N.)
Fixture Design					
Connection	SUB. HEXAGON SYSTEM		INT. OCTAGON SYSTEM	EXT. HEXAGON SYSTEM	SUB-N. HEXAGON SYSTEM

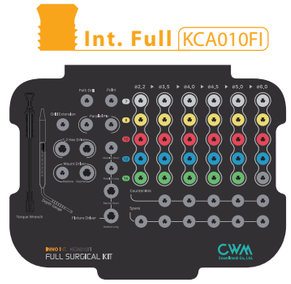
Simpler, Speedier and Safer Surgical Kit

Sub. / Sub-N. / Int. / Ext. / provide different types of exclusive kits, respectively.

Sub. Full KCA010F



Int. Full KCA010FI



Ext. Full KCA010FE

Sub. Smart KSA002

Sub. Short KSI001

Sub-N. Narrow KNA001

All in One Drill : Minimal drilling frequency with Initial and Final Drill

Chair time for implantation is shortened because the fixture can be implanted with just three drillings for general bone quality (when implanting Ø3.5-Ø4.5 fixtures).

Abutment Prosthetic Protocol

> For digital procedure, refer to the COWELL® Digital Products.

1. Fixture Level Impression - Prosthesis Fabrication

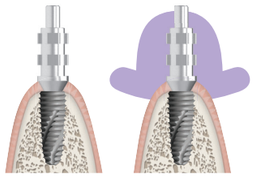
*** Two Piece Screw Retained Abutment**

Submerged & Submerged Short : Temporary | Easy Temporary | SFIT S | SFIT A
Internal : SFIT S | SFIT A
External : Temporary

*** Two Piece Screw-Cement Retained / Cement Retained Abutment**

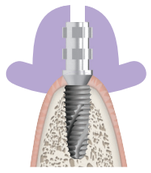
Submerged & Submerged Short : Cemented | Angulated | Beauty-up™ | Milling | Meta G UCLA | Plastic UCLA | Hybrid S | Hybrid L | Hybrid A | Ti-Block
Submerged Narrow : Cemented | Angulated | Temporary | Meta G UCLA | Hybrid S | Hybrid L | Hybrid A
Internal : Cemented | Angulated | Meta G UCLA | Hybrid S | Hybrid L
External : Cemented | Angulated | Temporary | Meta G UCLA | Plastic Sleeve

Pick up (Open Tray)

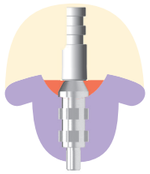


Connect the Pick-up Impression Coping & Guide Pin and take the impression with open tray.

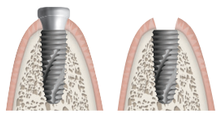
Single Crown : Hex / Octa Type
Bridge: Non-Hex / Non-Octa Type



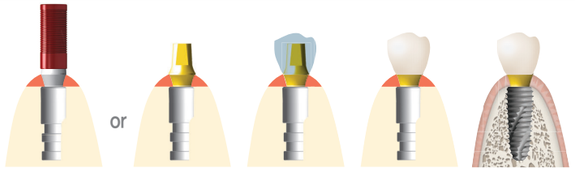
Remove the Guide Pin.



Connect the Replica with the Impression Coping positioned in the impression tray, form the gum and pour stone into the tray for working cast.



Remove the Healing Abutment.



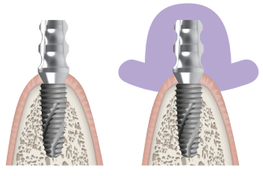
Connect the abutment with replica in the cast model.

Wax build-up on the abutment.

Complete final prosthesis.

Try-in final prosthesis with the fixture.

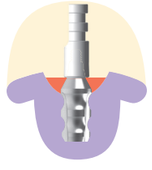
Transfer (Closed Tray)



Connect the Transfer Post & Guide Pin and take the impression with closed tray.

Single Crown : Hex / Octa Type
Bridge: Non-Hex / Non-Octa Type

Connect the Replica with the Transfer Post removed from the impression tray.



Interlock the Transfer Post into the impression tray, form the gum and pour stone into the tray for working cast.

2. Abutment Level Impression - Prosthesis Fabrication

*** Two / One Piece Screw Retained Abutment**

Submerged & Submerged Short : Multi S | Multi A | Lock | SFIT Absolute
Submerged Narrow : Multi S | Multi A

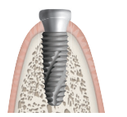
*** One Piece Cemented Retained Abutment**

Submerged & Submerged Short : Absolute | Straight (Direct)
Submerged Narrow : Straight
Internal : Solid | Shoulder
External : Shoulder

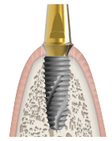
*** Two / One Piece Attachment Retained Abutment**

Submerged & Submerged Short : Sonator S | Sonator A | Ball
Internal : Sonator S | Ball
External : Ball

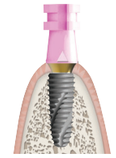
Indirect Impression Technique (No Abutment Modification Applied)



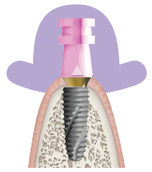
Remove the Healing Abutment.



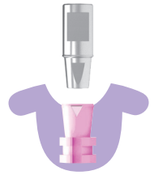
Connect the abutment with the fixture.



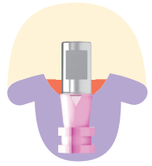
Fasten the Impression Cap on the Abutment.



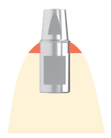
Take impression with closed tray.



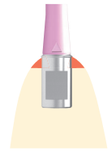
Connect the Lab Analog with the Impression Cap positioned in the impression tray.



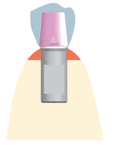
Form the gum and pour stone into the tray for working cast.



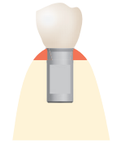
The working cast with the gum.



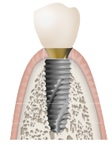
Fasten the Plastic Coping on the Lab Analog (Absolute).



Wax build-up on the abutment.

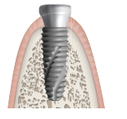


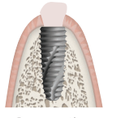
Complete final prosthesis.



Try-in final prosthesis with the fixture.

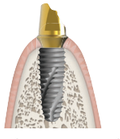
Direct Impression Technique (Abutment Modification Applied)



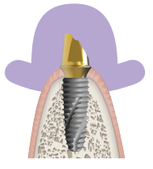


Remove the Healing Abutment.

Connect the abutment with the fixture.



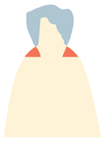
Modify the abutment for pathway and aesthetics.



Take impression with closed tray.

Pure stone into the tray for working cast.

The working cast with the gum.



Wax build-up on the abutment.

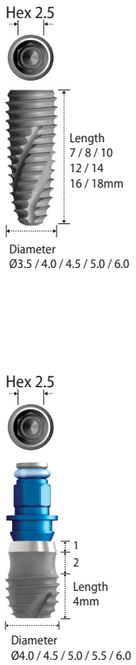
Complete final prosthesis.

Try-in final prosthesis with the fixture.

INNO SUBMERGED IMPLANT (Sub.)

System Flow

Fixture



Abutment

Prosthetic Procedure I	030p Cemented 030p Angulated 031p Beauty-up™ 031p Milling 031p Easy Temporary 032p Temporary 032p Meta G UCLA 032p Plastic UCLA	Fixture Level Impression
Prosthetic Procedure II	036p Multi S 036p Multi A	
Prosthetic Procedure III	042p Lock	
Prosthetic Procedure IV	046p Absolute	
Prosthetic Procedure V	047p Straight	Abutment Level Impression
Prosthetic Procedure VI	049p Sonator S 049p Sonator A	
Prosthetic Procedure VII	052p Ball	

Impression

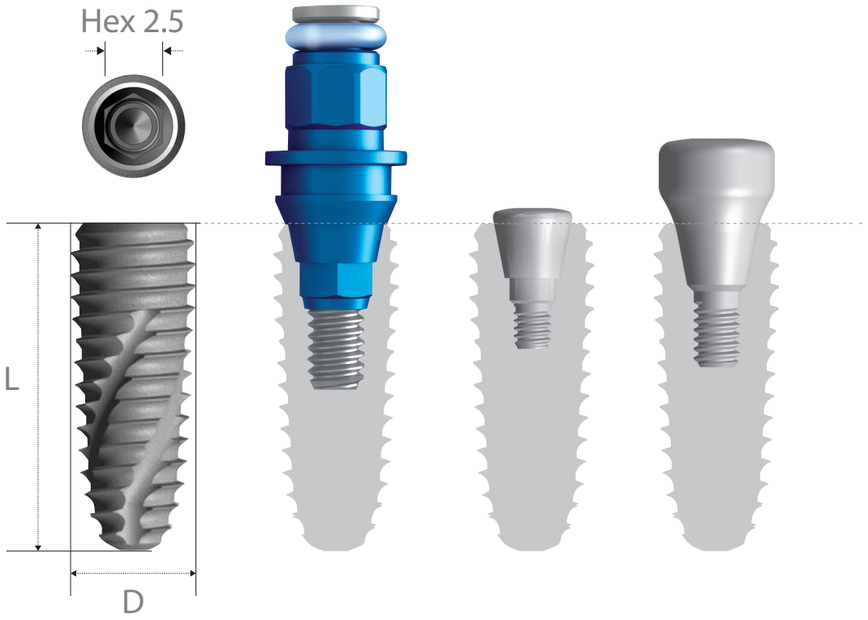
Fixture Level Impression	033p Replica 034p Bite Impression Coping 034p Pick-up Impression Coping 034p Transfer Post
	037p Multi Protection Cap 037p Multi Pick-up Impression Coping 037p Multi Transfer Post 038p Multi Lab Analog 038p Multi Meta G ULCA Cylinder 038p Multi Plastic UCLA Cylinder 039p Multi Titanium Cylinder 039p Multi Polishing Protector
	042p Lock Protection Cap 042p Lock Pick-up Impression Coping 043p Lock Lab Analog 043p Lock Meta G UCLA Cylinder 043p Lock Titanium Cylinder
	046p Absolute Protection Cap 046p Absolute Impression Cap 046p Absolute Lab Analog 046p Absolute Plastic Coping
Abutment Level Impression	Direct Impression
	050p Sonator Impression Coping 051p Sonator Analog
	052p Ball Analog

INNO Submerged Implant

SUB. HEXAGON SYSTEM

Submerged Fixture
Surface Treatment : **SLA-SH®**

> Interchangeable with hexagonal morse tapered fixture
> Internal hex connection (Taper 11°/ Hex 2.5)



INNO Fixture Code

S	T	40	10	S		M
Type	body	Diameter	Length	Surface Treatment		Mount
Submerged	**T**aper	Ø**4.0**	**10**mm	**S**LA		No-**M**ount

*Ex.)
SLA No-Mount ST4010SM

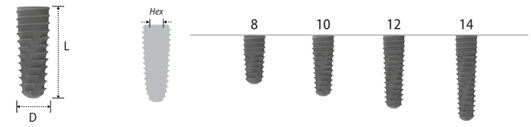
S	T	40	10	S		
Type	body	Diameter	Length	Surface Treatment		Mount
Submerged	**T**aper	Ø**4.0**	**10**mm	**S**LA		Pre-Mount

*Ex.)
SLA Pre-Mount ST4010S

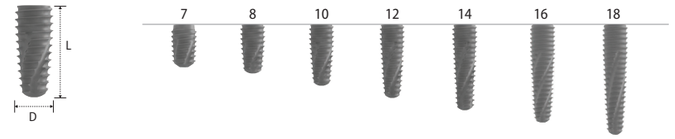
No-Mount

> Packing unit : 1 Fixture + 1 Cover Screw.

Length \ Diameter	Ø3.5
7	-
8	ST3508SM
10	ST3510SM
12	ST3512SM
14	ST3514SM

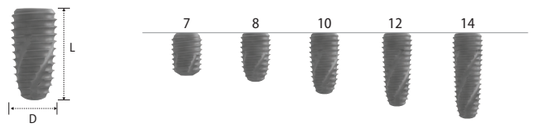


Length \ Diameter	Ø4.0
7	ST4007SM
8	ST4008SM
10	ST4010SM
12	ST4012SM
14	ST4014SM
16	ST4016SM
18	ST4018SM

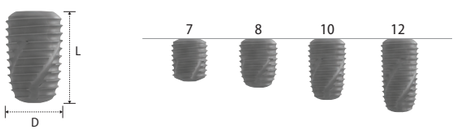


Length \ Diameter	Ø4.5
7	ST4507SM
8	ST4508SM
10	ST4510SM
12	ST4512SM
14	ST4514SM
16	ST4516SM
18	ST4518SM

Length \ Diameter	Ø5.0
7	ST5007SM
8	ST5008SM
10	ST5010SM
12	ST5012SM
14	ST5014SM



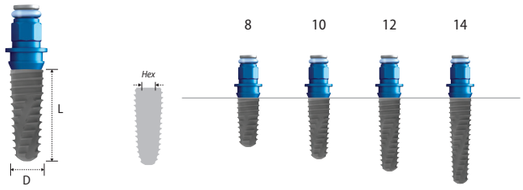
Length \ Diameter	Ø6.0
7	ST6007SM
8	ST6008SM
10	ST6010SM
12	ST6012SM
14	-



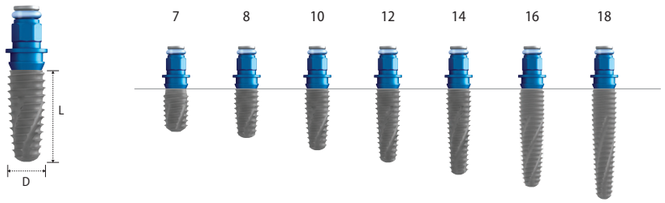
Pre-Mount

> Packing unit : 1 Fixture + 1 Cover Screw + 1 Mount.

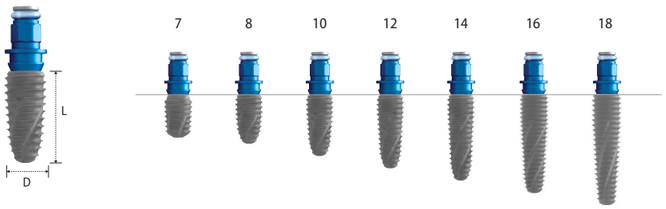
Diameter / Length	Ø3.5
7	-
8	ST3508S
10	ST3510S
12	ST3512S
14	ST3514S



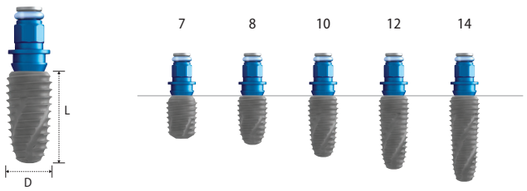
Diameter / Length	Ø4.0
7	ST4007S
8	ST4008S
10	ST4010S
12	ST4012S
14	ST4014S
16	ST4016S
18	ST4018S



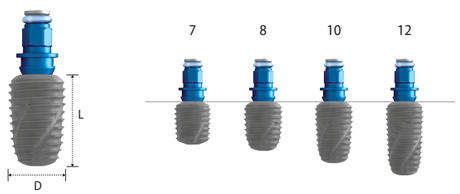
Diameter / Length	Ø4.5
7	ST4507S
8	ST4508S
10	ST4510S
12	ST4512S
14	ST4514S
16	ST4516S
18	ST4518S



Diameter / Length	Ø5.0
7	ST5007S
8	ST5008S
10	ST5010S
12	ST5012S
14	ST5014S



Diameter / Length	Ø6.0
7	ST6007S
8	ST6008S
10	ST6010S
12	ST6012S
14	-

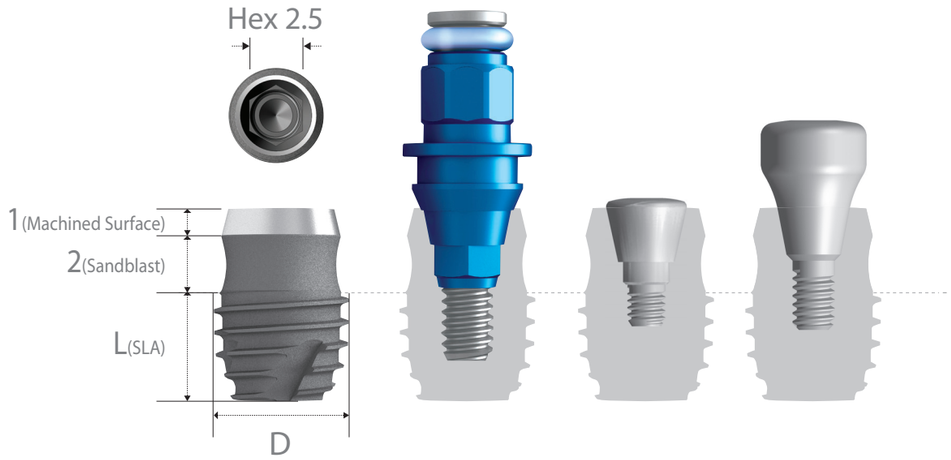


INNO Submerged Short Implant

SUB. HEXAGON SYSTEM

Submerged Short Fixture
Surface Treatment : **SLA-SH®**

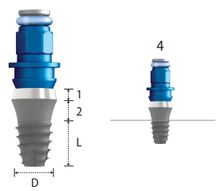
> Interchangeable with Hexagonal Morse Tapered Fixture.
> Internal hex connection (Taper 11°/ Hex 2.5).



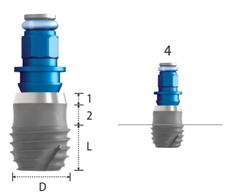
Pre-Mount

> Packing Unit : 1 Fixture + 1 Cover Screw + 1 Mount.

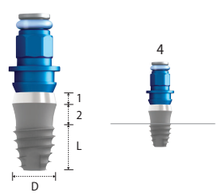
Diameter / Length	Ø4.0
4	2ST4004S



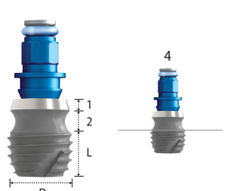
Diameter / Length	Ø5.5
4	2ST5504S



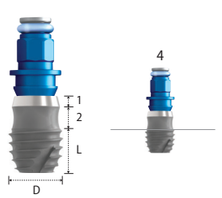
Diameter / Length	Ø4.5
4	2ST4504S



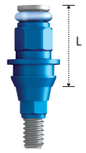
Diameter / Length	Ø6.0
4	2ST6004S



Diameter / Length	Ø5.0
4	2ST5004S



Fixture Mount



Length	5.4
	2SMHR001

> Packing unit : 1 Mount + 1 Mount Screw.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

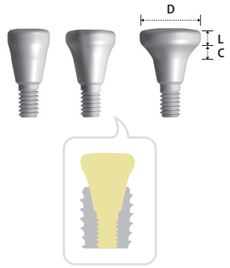
Cover Screw

Diameter / *Length*	Ø3.35	Ø3.75	Ø4.15
3	2SCS000		
4.2		* 2SCS001	
5.2			* 2SCS002

*Extra Product

> Packing unit : 1 Cover Screw.
> To seal the conical interface of fixture.
> The longer Cover Screw for deeply inserted fixture.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Healing Abutment

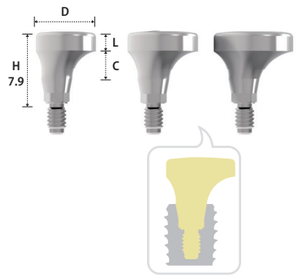


Diameter	Ø4.5		Ø5.5		Ø6.5	
Length / *Cuff*	1	2	1	2	1	2
1	2HS4511		2HS5511		2HS6511	
2		2HS4522		2HS5522		2HS6522
3		2HS4532		2HS5532		2HS6532
4		2HS4542		2HS5542		2HS6542
5		2HS4552		2HS5552		2HS6552
7		2HS4572		2HS5572		2HS6572

Diameter	Ø7.5	Ø8.5	Ø9.5
Length / *Cuff*	2	2	2
3	2HS7532	2HS8532	2HS9532

> Packing unit : 1 Healing Abutment.
> For remodeling gingival contour during soft tissue healing.
> Recommended to use with the Volume-up™ Guide System.
> Select according to gingival height and abutment type.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Volume-up™ Healing Abutment



Diameter	Ø6.5	Ø7.5	Ø8.5
Length / *Cuff*	2	2	2
3	VUHN6532	VUHN7532	VUHN8532

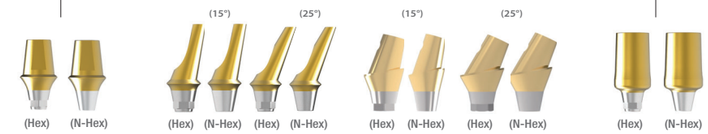
> Packing unit : 1 Volume-up™ Healing Abutment (Inbuilt Abutment Screw).
> Used for an implant procedure to form the gingival tissue and alveolar bone in the form of natural teeth and gums by prevention or minimizing the food penetration.
> Extremely effective when used with the COWELL® BMP.
> Recommended to use with the Volume-up™ Guide System.
> Select according to gingival height and abutment type.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 25~35 N.cm.

1mm off-centered

Prosthetic Procedure I

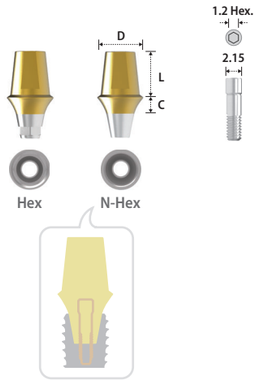
Components Selection Guide for Cemented and UCLA Abutment

Abutment Screw



Replica

Cemented Abutment

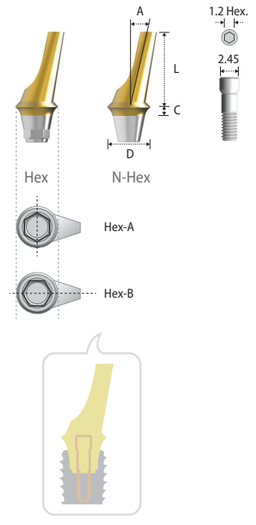


Type	Hex								
Diameter	Ø4.5			Ø5.5			Ø6.5		
Length / Cuff	4	5.5	7	4	5.5	7	4	5.5	7
1	2SCH4514	2SCH4515	2SCH4517	2SCH5514	2SCH5515	2SCH5517	2SCH6514	2SCH6515	2SCH6517
2	2SCH4524	2SCH4525	2SCH4527	2SCH5524	2SCH5525	2SCH5527	2SCH6524	2SCH6525	2SCH6527
3	2SCH4534	2SCH4535	2SCH4537	2SCH5534	2SCH5535	2SCH5537	2SCH6534	2SCH6535	2SCH6537
4	2SCH4544	2SCH4545	2SCH4547	2SCH5544	2SCH5545	2SCH5547	2SCH6544	2SCH6545	2SCH6547
5	2SCH4554	2SCH4555	2SCH4557	2SCH5554	2SCH5555	2SCH5557	2SCH6554	2SCH6555	2SCH6557

Type	N-Hex								
Diameter	Ø4.5			Ø5.5			Ø6.5		
Length / Cuff	4	5.5	7	4	5.5	7	4	5.5	7
1	2SCN4514	2SCN4515	2SCN4517	2SCN5514	2SCN5515	2SCN5517	2SCN6514	2SCN6515	2SCN6517
2	2SCN4524	2SCN4525	2SCN4527	2SCN5524	2SCN5525	2SCN5527	2SCN6524	2SCN6525	2SCN6527
3	2SCN4534	2SCN4535	2SCN4537	2SCN5534	2SCN5535	2SCN5537	2SCN6534	2SCN6535	2SCN6537
4	2SCN4544	2SCN4545	2SCN4547	2SCN5544	2SCN5545	2SCN5547	2SCN6544	2SCN6545	2SCN6547
5	2SCN4554	2SCN4555	2SCN4557	2SCN5554	2SCN5555	2SCN5557	2SCN6554	2SCN6555	2SCN6557

> Packing unit : 1 Cemented Abutment + 1 Abutment Screw.
> For Screw-Cement or Cement Retained Prosthesis.
> Cutting surface for anti-rotation of prosthesis.
> Gold color for more translucent restoration.
> Library available for EXOCAD®, 3Shape® & Others.
> Connected with the Abutment Screw (2SSHR200).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Use the Scanbody for 3D Work.
> Fixture level impression.

Angulated Abutment

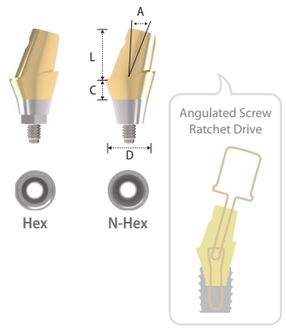


Type	Hex-A				Hex-B			
Diameter(Angle)	Ø4.5(15°)	Ø4.5(25°)	Ø5.5(15°)	Ø5.5(25°)	Ø4.5(15°)	Ø4.5(25°)	Ø5.5(15°)	Ø5.5(25°)
Length / Cuff	8	8	8	8	8	8	8	8
1	2SAH45151	2SAH45251	2SAH55151	2SAH55251	2SAH45151B	2SAH45251B	2SAH55151B	2SAH55251B
2	2SAH45152	2SAH45252	2SAH55152	2SAH55252	2SAH45152B	2SAH45252B	2SAH55152B	2SAH55252B
3	2SAH45153	2SAH45253	2SAH55153	2SAH55253	2SAH45153B	2SAH45253B	2SAH55153B	2SAH55253B
4	2SAH45154	2SAH45254	2SAH55154	2SAH55254	2SAH45154B	2SAH45254B	2SAH55154B	2SAH55254B

Type	N-Hex			
Diameter(Angle)	Ø4.5(15°)	Ø4.5(25°)	Ø5.5(15°)	Ø5.5(25°)
Length / Cuff	8	8	8	8
1	2SAN45151	2SAN45251	2SAN55151	2SAN55251
2	2SAN45152	2SAN45252	2SAN55152	2SAN55252
3	2SAN45153	2SAN45253	2SAN55153	2SAN55253
4	2SAN45154	2SAN45254	2SAN55154	2SAN55254

> Packing unit : 1 Angulated Abutment + 1 Abutment Screw.
> For Screw-Cement or Cement Retained Prosthesis.
> Solution for anterior esthetic zone.
> Connected with the Abutment Screw (2SSHR100).
> Gold color for more translucent restoration.
> Select Hex-A or Hex-B according to case.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Fixture level impression.

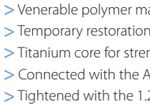
Beauty-up™ Abutment



Type	Hex	N-Hex	Hex	N-Hex
Diameter(Angle)	Ø3.8 (15°)	Ø3.8 (15°)	Ø3.8 (25°)	Ø3.8 (25°)
Length / Cuff	5	5	5	5
2	2SBH381525	2SBN381525	2SBH382525	2SBN382525

> Packing unit : 1 Beauty-up™ Abutment (Inbuilt Abutment Screw).
> For Screw-Cement Retained Prosthesis with angulated screw channel.
> Solution for anterior esthetic zone.
> The gingival line of the Beauty-up™ Abutment allows more esthetic prosthesis.
> Oval design allows lower incisal application (Mesiodistal diameter : 3.8mm).
> Tightened with the Angulated Screw Ratchet Drive and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Library available for EXOCAD®, 3Shape® & Others.
> Use the Scanbody for 3D Work.
> Fixture level impression.

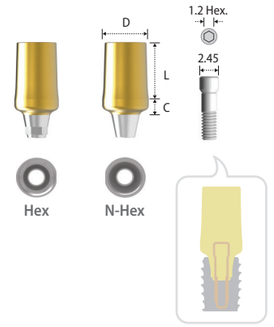
* Angulated Screw Ratchet Driver



Height \ Type	Ratchet
24(Short)	KRBUD15
29(Long)	KRBUD20

> Stable to internal slip or fracture due to wide contact area of the Angulated Driver and the dedicated Stargrip Abutment Screw.
> Tightening torque force : 30 N.cm (50 N.cm Max.).

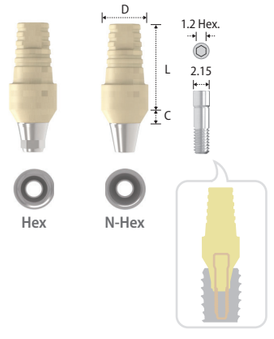
Milling Abutment



Type	Hex			N-Hex		
Diameter	Ø4.5	Ø5.5	Ø6.5	Ø4.5	Ø5.5	Ø6.5
Length / Cuff	7	7	7	7	7	7
2	2SMH4527	2SMH5527	2SMH6527	2SMN4527	2SMN5527	2SMN6527
4	2SMH4547	2SMH5547	2SMH6547	2SMN4547	2SMN5547	2SMN6547

> Packing unit : 1 Milling Abutment + 1 Abutment Screw.
> For Screw-Cement or Cement Retained Prosthesis.
> Block abutment for customized contouring.
> Gold color for more translucent restoration.
> Connected with the Abutment Screw (2SSHR100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Fixture level impression.

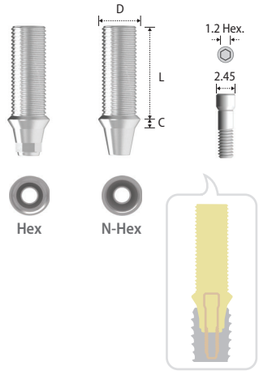
Easy Temporary Abutment



Type	Hex		N-Hex	
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Length / Cuff	10	10	10	10
2	2STHA45C	2STHA55C	2STNA45C	2STNA55C

> Packing unit : 1 Easy Temporary Abutment + 1 Abutment Screw.
> For Screw Retained Prosthesis.
> For simpler and speedier chair-side process.
> Venerable polymer material.
> Temporary restoration for anterior esthetic zone.
> Titanium core for strength.
> Connected with the Abutment Screw (2SSHR200).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.
> Fixture level impression.

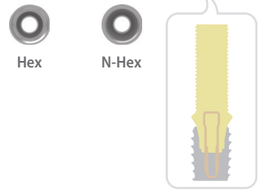
Temporary Abutment



Type	Hex	N-Hex
Diameter	Ø4.5	Ø4.5
Length / *Cuff*	10	10
1	2**STHA**45	2**STNA**45

> Packing unit : 1 Temporary Abutment + 1 Abutment Screw.
> For Screw-Cement Retained Prosthesis.
> For provisional restoration.
> Connected with the Abutment Screw (2SSHR100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.
> Fixture level impression.

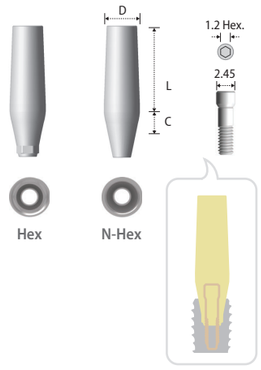
Meta G UCLA Abutment



Type	Hex	N-Hex
Diameter	Ø4.5	Ø4.5
Length / *Cuff*	12	12
1	2**SGH**45**N**	2**SGN**45**N**
2	2**SGH**452**N**	2**SGN**452**N**
3	2**SGH**453**N**	2**SGN**453**N**

> Packing unit : 1 Meta G UCLA Abutment + 1 Abutment Screw.
> For Screw-Cement or Screw Retained Prosthesis.
> Modification to angulated abutment, Customized abutment and telescopic abutment.
> CCM alloy core for precise connection.
> Cast with non-precious metal or gold alloy.
> Connected with the Abutment Screw (2SSHR100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Fixture level impression.

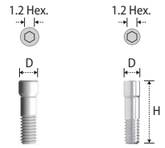
Plastic UCLA Abutment



Type	Hex		N-Hex	
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Length / *Cuff*	11	11	11	11
3	2**SPHR**001	2**SPHW**001	2**SPNR**001	2**SPNW**001

> Packing unit : 1 Plastic UCLA Abutment + 1 Abutment Screw.
> Same purpose of use as the Meta G UCLA Abutment but low accuracy of connection during lab procedure.
> PMMA material.
> Connected with the Abutment Screw (2SSHR100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : Finger light force during wax pattern fabrication, 30 N.cm after casting.
> Fixture level impression.

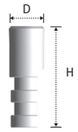
Abutment Screw



Height / *Diameter*	Ø2.45	Ø2.15
8.5	2**SSHR**100	2**SSHR**200

> Packing unit : 1 Abutment Screw.
> 2SSHR100 : Hybrid Block / Scanbody / Angulated / Milling / Temporary / Meta G UCLA / Plastic UCLA Abutment.
> 2SSHR200 : Hybrid S & L Ti-Base / Cemented / Easy Temporary Abutment.
> Tightened with the 1.2 Hex Driver and Torque Wrench.

Replica



Height / *Diameter*	Ø4
12	2**SRHR**001

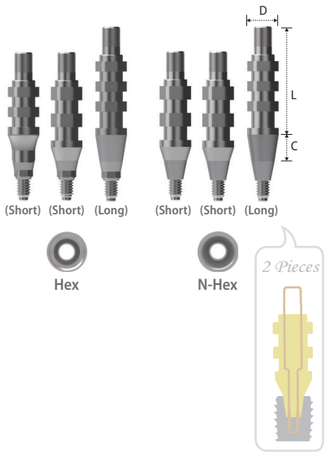
> Packing unit : 1 Replica.
> Mimicking of conical interface of fixture.
> Analog of fixture for working cast.

Bite Impression Coping

Type	Hex(Short)	Hex(Long)	Hex(X-Long)
Diameter	Ø4.5	Ø4.5	Ø4.5
Cuff / *Length*	2	4	6
4.0	2SBIC45S	2SBIC45L	2SBIC45X

> Packing unit : 1 Bite Impression Coping (Inbuilt Guide Pin).
> Designed to simultaneously take bite and impression.
> For Closed Tray Impression (Bite Impression).
> Tightened with the 1.2 Hex Driver and Torque Wrench.

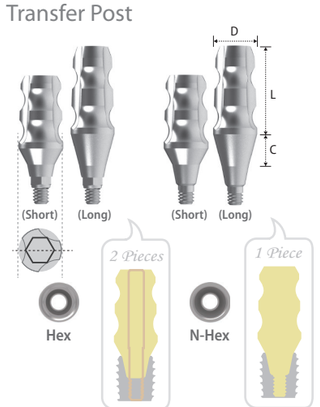
Pick-up Impression Coping



Type	Hex			N-Hex		
Diameter / *Length / Cuff*	Ø4.5	Ø5.5	Ø6.5	Ø4.5	Ø5.5	Ø6.5
14 (Short) / 4	2SIH454S	2SIH554S	2SIH654S	2SIN454S	2SIN554S	2SIN654S
14 (Short) / 2	2SIH45S	2SIH55S	2SIH65S	2SIN45S	2SIN55S	2SIN65S
16 (Long) / 4	2SIH45L	2SIH55L	2SIH65L	2SIN45L	2SIN55L	2SIN65L

> Packing unit : 1 Pick-up Impression Coping + 1 Guide Pin.
> For open tray impression.
> Connected with the Guide Pin (2SISR001SS / 2SISR001SL).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15Ncm.

Transfer Post

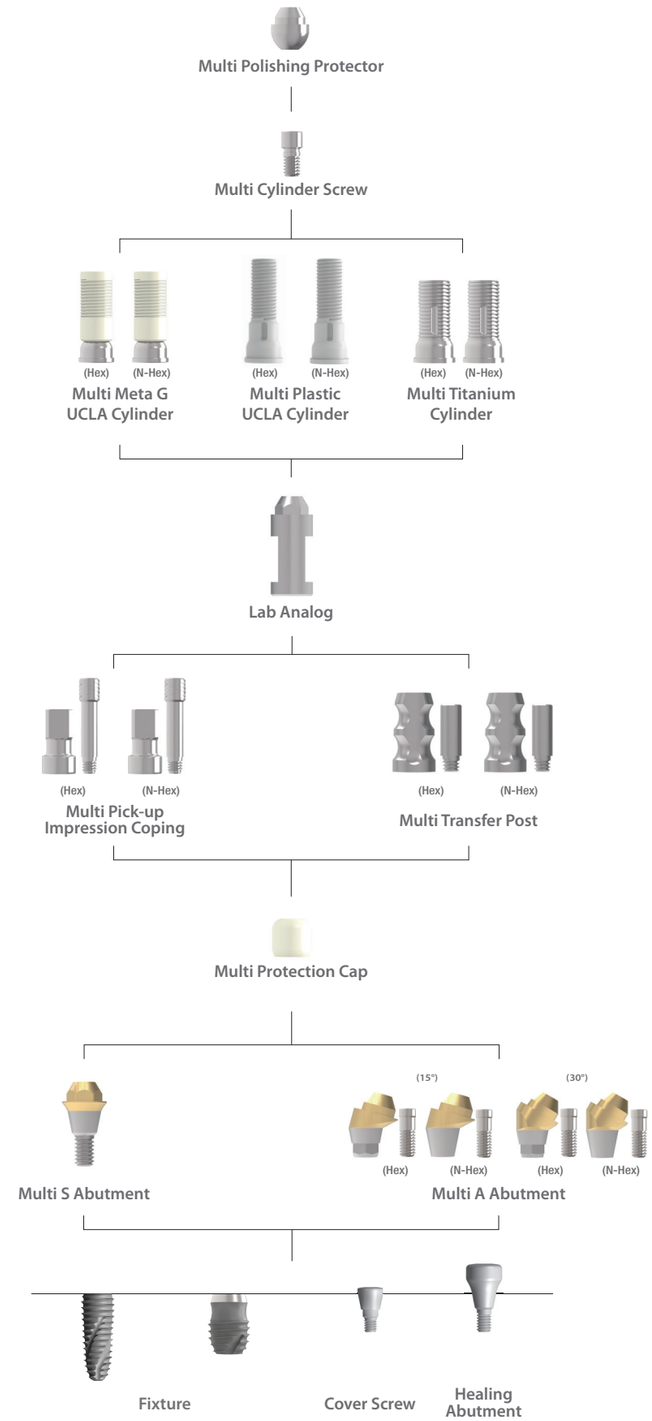


Type	Hex			N-Hex		
Diameter / *Length / Cuff*	Ø4.5	Ø5.5	Ø6.5	Ø4.5	Ø5.5	Ø6.5
9 (Short) / 2	2STH45S	2STH55S	2STH65S	2STN45S	2STN55S	2STN65S
11 (Long) / 4	2STH45L	2STH55L	2STH65L	2STN45L	2STN55L	2STN65L

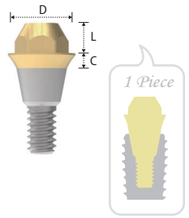
> Packing unit : Hex - 1 Transfer Post + 1 Guide Pin / N-Hex - 1 Transfer Post (Solid Type).
> For closed tray impression.
> Connected with the Guide Pin (2STH001SS / 2STH001SL).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15Ncm.

Prosthetic Procedure II

Component Selection Guide for Multi S&A Abutment



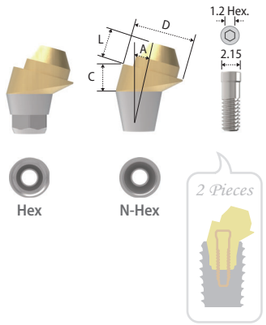
Multi S Abutment



Diameter	Ø4.5	Ø5.5
Cuff \ Length	2	2
1	2SMS451	2SMS551
2	2SMS452	2SMS552
3	2SMS453	2SMS553
4	2SMS454	2SMS554
5	2SMS455	2SMS555

> Packing unit : 1 Multi S Abutment.
> For Screw-Retained Prosthesis.
> Titanium base for the cylinders.
> Gold color for more translucent restoration.
> Integrated with screw and abutment.
> Library available for EXOCAD®, 3Shape® & Others.
> Use the S Holder for more stable position.
> Tightened with the S Machine & S Ratchet Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Abutment level impression.

Multi A Abutment



Type	Hex			
Diameter(Angle)	Ø4.5(15°)	Ø4.5(30°)	Ø5.5(15°)	Ø5.5(30°)
Cuff \ Length	2	2	2	2
2	● 2SMAH45152			
3	★ 2SMAH45153	● 2SMAH45303	★ 2SMAH55153	★ 2SMAH55303
4	★ 2SMAH45154	★ 2SMAH45304	★ 2SMAH55154	★ 2SMAH55304
5			★ 2SMAH55155	★ 2SMAH55305

Type	N-Hex			
Diameter(Angle)	Ø4.5(15°)	Ø4.5(30°)	Ø5.5(15°)	Ø5.5(30°)
Cuff \ Length	2	2	2	2
2	● 2SMAN45152			
3	★ 2SMAN45153	● 2SMAN45303	★ 2SMAN55153	★ 2SMAN55303
4	★ 2SMAN45154	★ 2SMAN45304	★ 2SMAN55154	★ 2SMAN55304
5			★ 2SMAN55155	★ 2SMAN55305

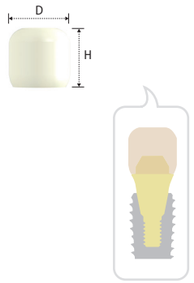
> Packing unit: 1 Multi A Abutment + 1 Abutment Screw.
> For Screw-Retained Prosthesis.
> Titanium base for the cylinders.
> Gold color for more translucent restoration.
> Library available for EXOCAD®, 3Shape® & others.
> Use the A Holder for more stable position.
> Connected with the Abutment Screw (2SSHR300 : ★ / 2SSHR400 : ●).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 30 N.cm.
> Use the Multi Scanbody for digital flow.
> Abutment level impression.

Abutment Screw

Diameter \ Height	7.5	6.5
2.15	★ 2SSHR300	● 2SSHR400

> Packing unit: 1 Abutment Screw.
> To connect the Multi A Abutment.
> Tightened with the 1.2 Hex Driver and Torque Wrench.

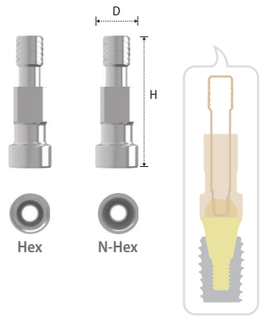
Multi Protection Cap



Multi S & A Abutment Diameter	Ø4.5	Ø5.5
Diameter \ Height	Ø5.2	Ø6.2
5	2SMPC45	2SMPC55

> Packing unit : 1 Multi Protection Cap.
> Protection from cheek and tongue for gingival healing period.
> Gingival retraction for prosthodontic margin of abutment.
> Alternative usage for sub-structure of temporary prosthesis.

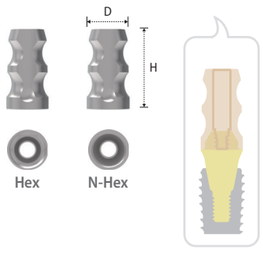
Multi Pick-up Impression Coping



Type	Hex		N-Hex	
Multi S & A Abutment Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Diameter \ Height	Ø4.65	Ø5.65	Ø4.65	Ø5.65
14.8	2SMIH45	2SMIH55	2SMIN45	2SMIN55

> Packing unit: 1 Multi Pick-up Impression Coping + 1 Guide Pin.
> For open tray impression.
> Connected with the Guide Pin (2SMGP012).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15 N.cm.

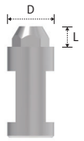
Multi Transfer Post



Type	Hex		N-Hex	
Multi S & A Abutment Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Diameter \ Height	Ø4.5	Ø5.5	Ø4.5	Ø5.5
8.5	2SMTH45	2SMTH55	2SMTN45	2SMTN55

> Packing unit: 1 Multi Transfer Post + 1 Guide Pin.
> For closed tray impression.
> Connected with the Guide Pin (2SMTHS100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15 N.cm.

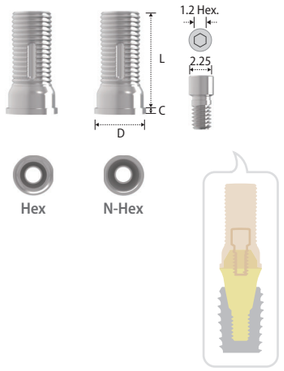
Multi Lab Analog



Multi S & A Abutment Diameter	Ø4.5	Ø5.5
Length \ Diameter	Ø4.5	Ø5.5
2	2SMA45	2SMA55

> Packing unit : 1 Multi Lab Analog.
> Replacement of abutment shape in working cast.
> Choose by abutment size.

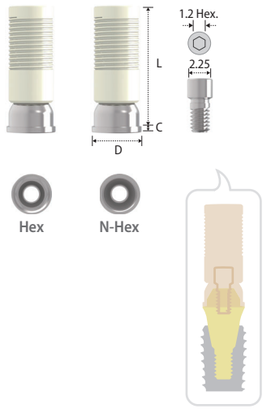
Multi Titanium Cylinder



Type	Hex		N-Hex	
Multi S & A Abutment Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Length \ Cuff	8.5	8.5	8.5	8.5
0.5	2STCH45	2STCH55	2STCN45	2STCN55

> Packing unit : 1 Multi Titanium Cylinder + 1 Multi Cylinder Screw.
> For Screw, Cement or Screw-Cement Retained Prosthesis.
> Connected with the Multi Cylinder Screw (2SMCS100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

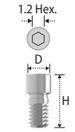
Multi Meta G UCLA Cylinder



Type	Hex		N-Hex	
Multi S & A Abutment Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Length \ Cuff	10.9	10.9	10.9	10.9
0.5	2SCCH45	2SCCH55	2SCCN45	2SCCN55

> Packing unit : 1 Multi Meta G UCLA Cylinder + 1 Multi Cylinder Screw.
> For Screw, Cement or Screw-Cement Retained Prosthesis.
> Modification to various types of abutments.
> CCM alloy core for precise connection.
> Cast with non-precious metal or gold alloy.
> Connected with the Multi Cylinder Screw (2SMCS100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

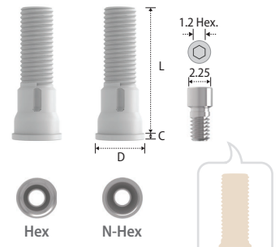
Multi Cylinder Screw



Height \ Diameter	Ø2.25
5	2SMCS100

> Packing unit : 1 Multi Cylinder Screw.
> Connected with the Meta G UCLA, Plastic UCLA and Titanium Cylinder.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

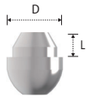
Multi Plastic UCLA Cylinder



Type	Hex		N-Hex	
Multi S & A Abutment Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Length \ Cuff	11.5	11.5	11.5	11.5
0.5	2SMPH45	2SMPH55	2SMPN45	2SMPN55

> Packing unit : 1 Multi Plastic UCLA Cylinder + 1 Multi Cylinder Screw.
> For Screw, Cement or Screw-Cement Retained Prosthesis.
> Same purpose of use as the Meta G UCLA Cylinder but low accuracy of connection.
> PMMA material.
> Connected with the Multi Cylinder Screw (2SMCS100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

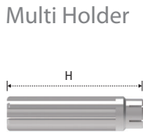
Multi Polishing Protector

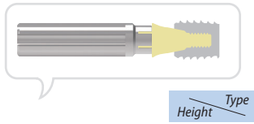


Type	Hex	
Multi S & A Abutment Diameter	Ø4.5	Ø5.5
Diameter \ Length	Ø4.5	Ø5.5
2	2SMPP45	2SMPP55

> Packing unit : 1 Multi Polishing Protector.
> For polishing work during lab procedure.

Multi Holder

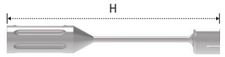




S Holder

Height \ Type	Hand
20	KMHS01

> Packing unit: 1 Multi S Holder.
> To position the Multi S Abutment more stably.



A Holder

Height \ Type	Hand
32	KMHA01

> Packing unit: 1 Multi A Holder.
> To position the Multi A Abutment more stably.

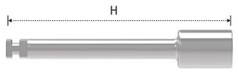
① Connect the Multi A Holder with the Multi A Abutment Screw in it and match the direction of holes of the abutment and the holder.

② Hold the handle of the Multi A Holder and bend it according to the placement position in the oral cavity.

③ Connect the assembled body with the fixture.

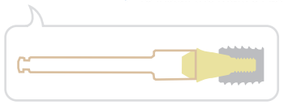
④ Tighten the Multi Abutment with the 1.2 Hex Driver and Torque Wrench.

Multi S Machine Driver

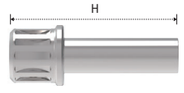


Height \ Type	Machine
27.5	KMMSD21L

> Packing unit: 1 Multi S Machine Driver.
> To install the Multi S Abutment by machine.

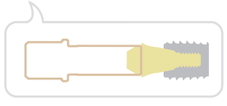


Multi S Ratchet Driver



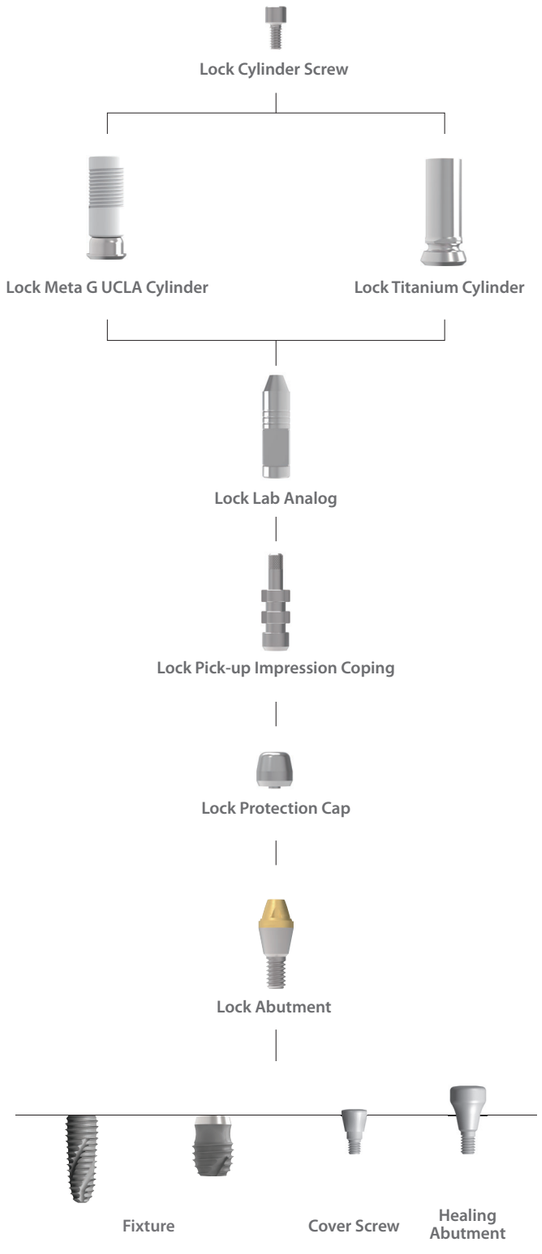
Height \ Type	Ratchet
22	KRMSD15L

> Packing unit: 1 Multi S Ratchet Driver.
> To install the Multi S Abutment by hand.

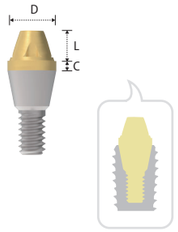


Prosthetic Procedure III

Component Selection Guide for Lock Abutment



Lock Abutment



Diameter / *Cuff* \ *Length*	Ø3.5
	2.15
0.5	2SLA400
1	2SLA410
2	2SLA420
3	2SLA430
4	2SLA440

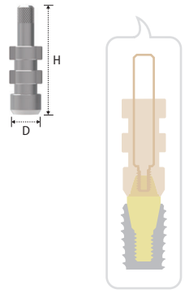
> Packing unit : 1 Lock Abutment.
> For Screw-Retained Prosthesis.
> Titanium base for cylinder.
> Gold color for more translucent restoration.
> Integrated with screw and abutment.
> Tightened with the Lock Ratchet Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Abutment level impression.

Lock Protection Cap

Lock Abutment Diameter / *Height* \ *Diameter*	Ø3.5
	Ø3.5
4.3	2SLP45

> Packing unit : 1 Lock Protection Cap.
> Protection from cheek and tongue for gingival healing period.
> Gingival retraction for prosthodontic margin of abutment.

Lock Pick-up Impression Coping



Lock Abutment Diameter / *Height* \ *Diameter*	Ø3.5
	Ø3.5
16	2SLIH45

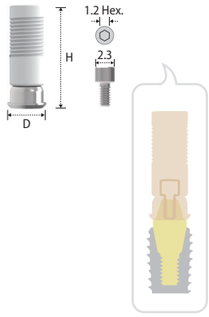
> Packing unit : 1 Lock Pick-up Impression Coping + 1 Guide Pin.
> Connected with the Guide Pin (2SLIH45S).
> For open tray impression.

Lock Lab Analog

Lock Abutment Diameter / *Length* \ *Diameter*	Ø3.5
	Ø3.5
2.15	2SLA45

> Packing unit : 1 Lock Lab Analog.
> Replacement of abutment shape in working cast.
> Tightened with the 1.2 Hex Driver and Torque Wrench.

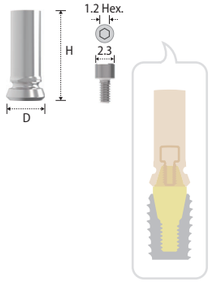
Lock Meta G UCLA Cylinder



Lock Abutment Diameter / *Height* \ *Diameter*	Ø3.5
	Ø3.5
11.2	2SLCH45

> Packing unit : 1 Lock Meta G UCLA Cylinder + 1 Lock Cylinder Screw.
> For Screw, Cement or Screw-Cement Retained Prosthesis.
> Modification to various types of abutments.
> CCM alloy core for precise connection.
> Cast with non-precious metal or gold alloy.
> Connected with the Lock Cylinder Screw (2SLCS200).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.

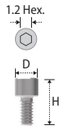
Lock Titanium Cylinder



Lock Abutment Diameter / *Height* \ *Diameter*	Ø3.5
	Ø3.5
10	2SLTH45

> Packing unit : 1 Lock Titanium Cylinder + 1 Lock Cylinder Screw.
> For Screw, Cement or Screw-Cement Retained Prosthesis.
> Connected with the Lock Cylinder Screw (2SLCS200).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.

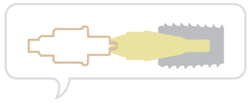
Lock Cylinder Screw

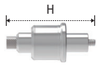


Height \ Diameter	Ø2.3
4.8	2SLCS200

> Packing unit : 1 Lock Cylinder Screw.
> Connected with the CCM Cylinder or Titanium Cylinder.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.

Lock Ratchet Driver



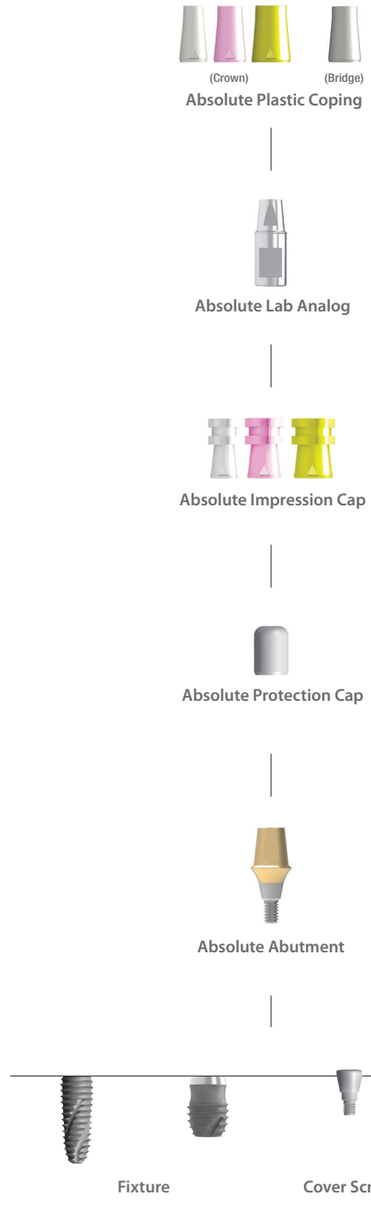


Height \ Type	Ratchet
14.2	KRLRD18
28.5	KRLRD28

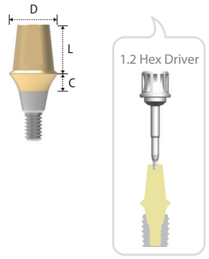
> Packing unit : 1 Lock Ratchet Driver.
> To install the Lock Abutment by hand.

Prosthetic Procedure IV

Component Selection Guide for Absolute Abutment



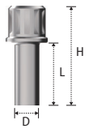
Absolute Abutment



Diameter	Ø4.5			Ø5.5			Ø6.5		
Cuff \ Length	4	5.5	7	4	5.5	7	4	5.5	7
1	2SAC4514	2SAC4515	2SAC4517	2SAC5514	2SAC5515	2SAC5517	2SAC6514	2SAC6515	2SAC6517
2	2SAC4524	2SAC4525	2SAC4527	2SAC5524	2SAC5525	2SAC5527	2SAC6524	2SAC6525	2SAC6527
3	2SAC4534	2SAC4535	2SAC4537	2SAC5534	2SAC5535	2SAC5537	2SAC6534	2SAC6535	2SAC6537
4	2SAC4544	2SAC4545	2SAC4547	2SAC5544	2SAC5545	2SAC5547	2SAC6544	2SAC6545	2SAC6547
5	2SAC4554	2SAC4555	2SAC4557	2SAC5554	2SAC5555	2SAC5557	2SAC6554	2SAC6555	2SAC6557

> Packing unit : 1 Absolute Abutment + 1 Production Cap.
> For Cement Retained Prosthesis.
> Cutting surface for anti-rotation of prosthesis.
> Integrated with the Screw and Abutment.
> Tightened with the 1.2 Hex Driver / Absolute Ratchet Driverand Torque Wrench.
> Tightening torque force : 30 N.cm.
> Abutment level impression.

Absolute Ratchet Driver



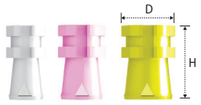
Diameter	Ø4.6		Ø5.6		Ø6.6	
Height \ Length	12	19	12	19	12	19
19	KRAD4512S		KRAD5512S		KRAD6512S	
26		KRAD4519L		KRAD5519L		KRAD6519L

Absolute Protection Cap

Absolute Abutment Diameter	Ø4.5	Ø5.5	Ø6.5
Height \ Diameter	Ø5.0	Ø6.0	Ø7.0
6	2SHPC454	2SHPC554	2SHPC654
7.5	2SHPC455	2SHPC555	2SHPC655
9	2SHPC457	2SHPC557	2SHPC657

> Packing unit : 1 Absolute Protection Cap .
> Protection from cheek and tongue for gingival healing period.
> Gingival retraction for prosthodontic margin of abutment.
> Alternative usage for sub-structure of temporary prosthesis.

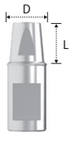
Absolute Impression Cap



Absolute Abutment Diameter	Ø4.5	Ø5.5	Ø6.5
Height \ Diameter	Ø5.5	Ø6.5	Ø7.5
10.3	2SIC45	2SIC55	2SIC65

> Packing unit : 1 Absolute Impression Cap.
> Confirm locking with abutment by rotation of clockwise and anti-clockwise direction.

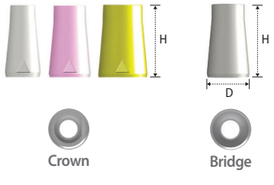
Absolute Lab Analog



Absolute Abutment Diameter	Ø4.5	Ø5.5	Ø6.5
Length \ Diameter	Ø4.5	Ø5.5	Ø6.5
4.1	2SHLA454	2SHLA554	2SHLA654
5.6	2SHLA455	2SHLA555	2SHLA655
7.1	2SHLA457	2SHLA557	2SHLA657

> Packing unit : 1 Absolute Lab Analog.
> Replacement of abutment shape in working cast.
> Choose according to width and length of abutment.

Absolute Plastic Coping (Burn Out Cylinder)



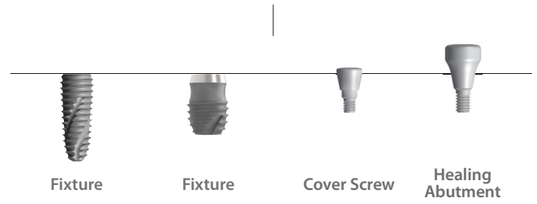
Type	Crown			Bridge		
Absolute Abutment Diameter	Ø4.5	Ø5.5	Ø6.5	Ø4.5	Ø5.5	Ø6.5
Height \ Diameter	Ø5.1	Ø6.1	Ø7.1	Ø5.1	Ø6.1	Ø7.1
10	2SHBC45	2SHBC55	2SHBC65	2SHBB45	2SHBB55	2SHBB65

> Packing unit : 1 Absolute Plastic Coping.
> Connected with the Lab Analog.
> Burn out and casting for metal framework.

Prosthetic Procedure V

Component Selection Guide for Straight Abutment

Straight Abutment

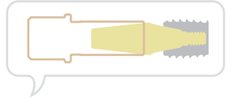


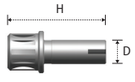
Straight Abutment

Diameter	Ø3.5	Ø4.5
Cuff \ Length	8	8
0.5	2SSCM308	2SSCR408
1	2SSCM318	2SSCR418
2	2SSCM328	2SSCR428
3	2SSCM338	2SSCR438
4	2SSCM348	2SSCR448

> Packing unit : 1 Straight Abutment.
> For Cement Retained Prosthesis.
> Integrated with screw and abutment.
> Tightened with the Shoulder Driver.
> Tightening torque force : 30 N.cm.
> Direct impression.

Shoulder Driver



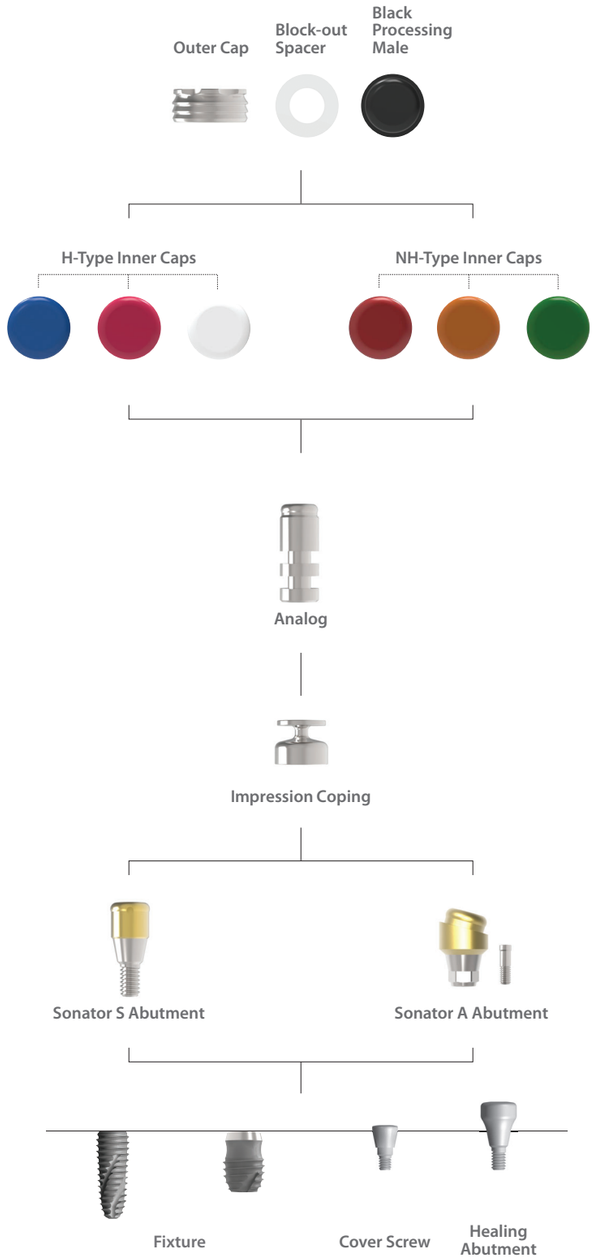


Height \ Diameter	Ø4.5
19	KRR19L

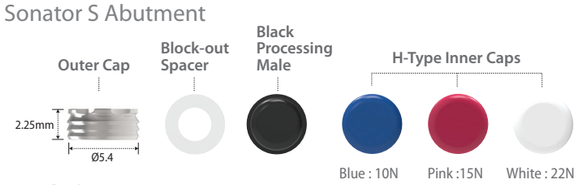
> Packing unit : 1 Driver.
> To install the Straight Abutment.

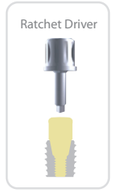
Prosthetic Procedure VI

Component Selection Guide for Sonator Abutment



Sonator S Abutment

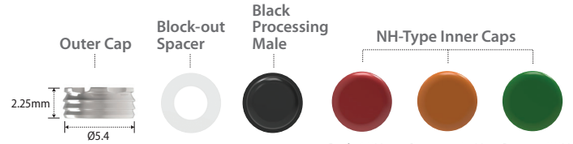


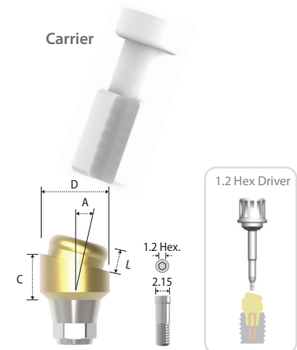


Diameter	Ø4.0					
Length / *Cuff*	1	2	3	4	5	6
1.5	SONS401	SONS402	SONS403	SONS404	SONS405	SONS406

> Packing unit : 1 Sonator S Abutment + 1 Carrier + 3 H-Type Inner Caps + 1 Outer Cap + 1 Block-out Spacer + 1 Black Processing Male.
> For Implant Supported Over-denture Prosthesis.
> Stable with low vertical height.
> 6 kinds of the Inner Caps give various holding force (Both, H and NH-Type Inner Caps are used for the Sonator S Abutment).
> Path compensation up to 20° based on 2 implants.
> Carrier : Used for delivery of the abutment.
> Tightened with the Sonator S Ratchet Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Abutment level impression.

Sonator A Abutment





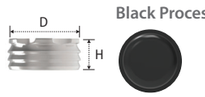
Diameter	Ø4.0	
Length	1.5	3.0
Angle / *Cuff*	3	3
15°	SONA415	SONA430

> Packing unit : 1 Sonator A Abutment + 1 Abutment Screw + 1 Carrier + 3 NH-Type Inner Caps + 1 Outer Cap + 1 Block-out Spacer + 1 Black Processing Male.
> For Implant Supported Over-denture Prosthesis.
> Stable with low vertical height.
> 6 kinds of Inner Caps give various holding force (Both, H and NH-Type Inner Caps are used for the Sonator A Abutment).
> Path compensation up to 40° based on 2 Implants.
> Connected with the Abutment Screw (2SSHR300).
> Carrier : Used for delivery of the abutment.
> Tightened with the 1.2 Hex Driver and Torque wrench.
> Tightening torque force : 30 N.cm.
> Abutment level impression.

Abutment Screw

Height / *Diameter*	Ø2.15
7.5	2SSHR300

Outer Cap

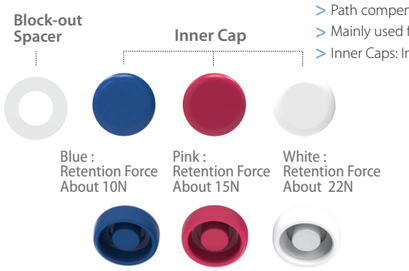


Height \ Diameter	Ø5.4
2.25	SONOC01

> Packing unit : 2 Outer Caps and 2 Black Processing Males.
> Black Processing Male: Inserted and removed with the I&R Driver.

H-Type Inner Cap

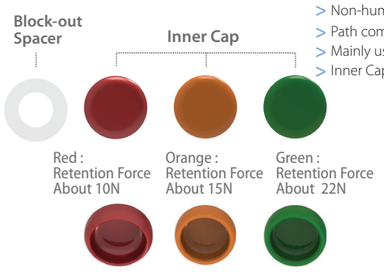
Code	SONIC01



> Packing unit : 3 Block-out Spacers + 3 Inner Caps (1 Blue, 1 Pink and 1 White).
> Path compensation up to 20° based on 2 implants.
> Mainly used for the Sonator S Abutment.
> Inner Caps: Inserted and removed with the I&R Driver.

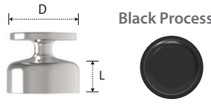
NH-Type Inner Cap

Code	SONIC02



> Packing unit : 3 Block-out Spacers + 3 Inner Caps (1 Red, 1 Orange and 1 Green).
> Non-humped design.
> Path compensation up to 40° based on 2 implants.
> Mainly used for the Sonator A Abutment.
> Inner Caps : Inserted and removed with the I&R Driver.

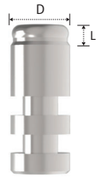
Sonator Impression Coping



Length \ Diameter	Ø4.8
3	SONIP04

> Packing unit : 4 Sonator Impression Coping and 4 Black Processing Males.
> Connected over the Sonator Abutment after placing the Block-out Spacer.
> For close tray impression.

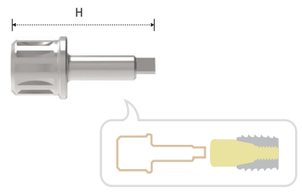
Sonator Lab Analog



Length \ Diameter	Ø4
1.4	SONLA04

> Packing unit : 4 Sonator Lab Analogs.
> Replacement of abutment shape in working cast.

Sonator S Ratchet Driver

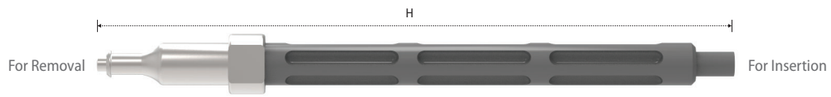


Height \ Type	Ratchet
18	SONRD19L

> Used to tighten and untighten the Sonator S Abutment.

I & R Driver

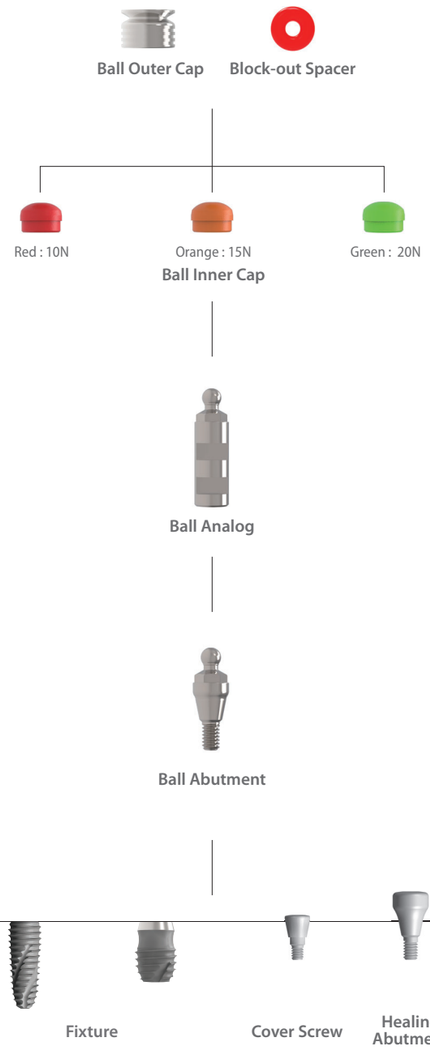
Height	95.4
	SONIR002



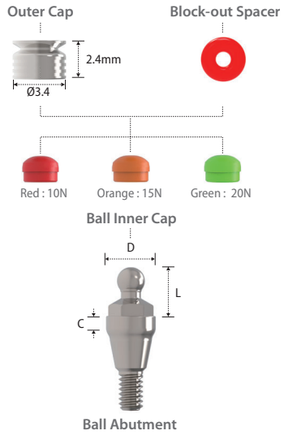
> Used to insert and remove the Inner Caps and Block Processing Male.

Prosthetic Procedure VII

Component Selection Guide for Ball Abutment



Ball Abutment



Diameter / *Length* / *Cuff*	Ø4.0
	4
1	2SBAT414R
2	2SBAT424R
3	2SBAT434R
4	2SBAT444R
5	2SBAT454R

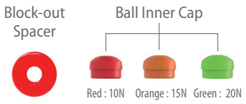
> Packing unit : 1 Ball Abutment + 3 Inner Caps (1 per each colour) + 1 Block-out Spacer + 1 Outer Cap.
> For Implant Supported Over-denture Prosthesis.
> Tightened with the Ball Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Direct impression.

Ball Outer Cap

Height / *Diameter*	Ø3.4
2.4	BATC003C

> Packing unit : 2 Outer Caps.

Ball Inner Cap



BATC003I

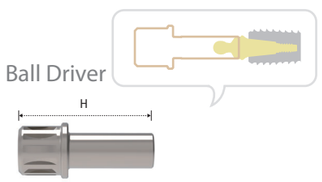
> Packing unit: 2 Block-out Spacers + 6 Inner Caps (2 per each color).
> Retention force: Red 10N, Orange 15N & Green 20N.

Ball Analog

Length / *Diameter*	Ø4.0
4	SBAL400

> Packing unit : 4 Lab Analogs.
> Replacement of abutment shape in working cast.

Ball Driver



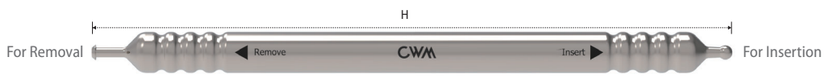
Height / *Type*	Ratchet
19	KRB19L

*Extra Product

> Packing unit : 1 Ball Driver.
> Used with the Torque Wrench to tighten and untighten the Ball Abutment.

I&R Driver

Height	100
	KBIR01



> Packing unit : 1 I&R Driver.
> Used to insert and remove the Inner Caps into and out of the Outer Cap.

INNO SUBMERGED NARROW IMPLANT (Sub-N.)

System Flow

Fixture

Abutment

Prosthetic Procedure I

059p

Cemented

059p

Angulated

059p

Temporary

060p

Meta G UCLA

Prosthetic Procedure II

063p

Multi S

063p

Multi A

Prosthetic Procedure III

068p

Straight

Impression

Fixture Level Impression

060p

Replica

061p

Pick-up Impression Coping

061p

Transfer Post

Abutment Level Impression

064p

Multi Protection Cap

064p

Multi Pick-up Impression Coping

064p

Multi Transfer Post

065p

Multi Lab Analog

065p

Multi Meta G ULCA Cylinder

065p

Multi Plastic UCLA Cylinder

066p

Multi Titanium Cylinder

066p

Multi Polishing Protector

Direct Impression

INNO Submerged Narrow Implant (Sub-N.)

SUB-N. HEXAGON SYSTEM

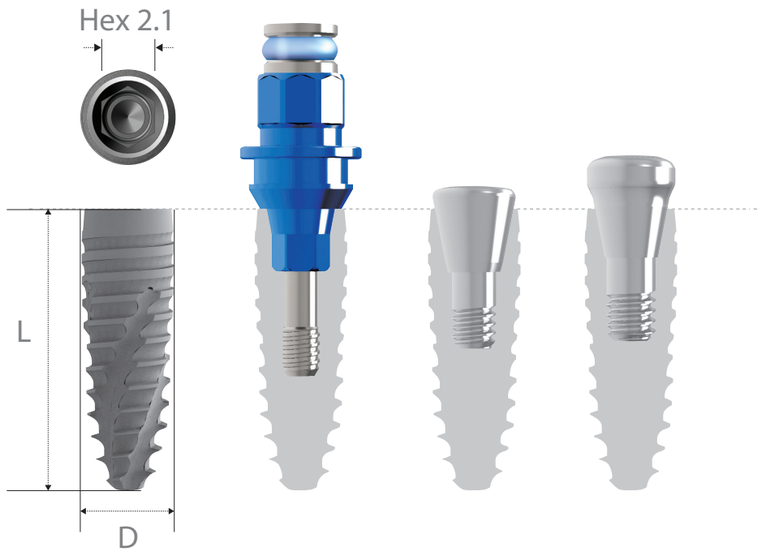
Submerged Fixture

Surface Treatment : **SLA-SH®**

> Interchangeable with hexagonal morse tapered fixture.
> Internal hex connection (Taper 11°/ Hex 2.1).

※ Note

> The INNO Sub. Narrow System is not compatible with the INNO Submerged System as hexagon size is different.

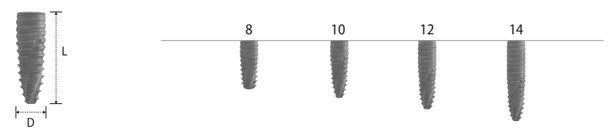


No-Mount

> Packing unit : 1 Fixture + 1 Cover Screw.

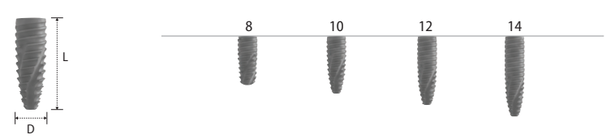
Diameter / Length — Ø3.1

Length	
8	SR3108NSM
10	SR3110NSM
12	SR3112NSM
14	SR3114NSM



Diameter / Length — Ø3.3

Length	
8	SR3308NSM
10	SR3310NSM
12	SR3312NSM
14	SR3314NSM

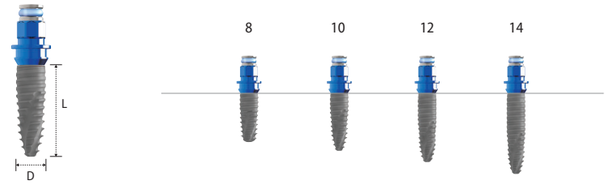


Pre-Mount

> Packing unit : 1 Fixture + 1 Cover Screw + 1 Mount.

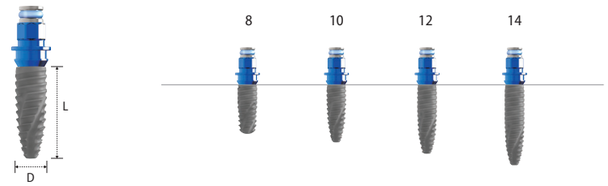
Diameter / Length — Ø3.1

Length	
8	SR3108NS
10	SR3110NS
12	SR3112NS
14	SR3114NS

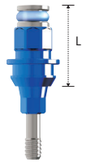


Diameter / Length — Ø3.3

Length	
8	SR3308NS
10	SR3310NS
12	SR3312NS
14	SR3314NS



Fixture Mount



Length	5.4
	RSM001

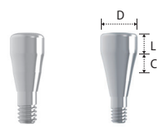
> Packing unit : 1 Mount + 1 Mount Screw.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Cover Screw

Diameter / *Length*	Ø2.85	Ø3.25	Ø3.6
1.7	RCS000		
2.7		RCS001	
3.7			RCS002

> Packing unit : 1 Cover Screw.
> To seal the conical interface of fixture.
> The longer the Cover Screw for deeply inserted fixture.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Healing Abutment

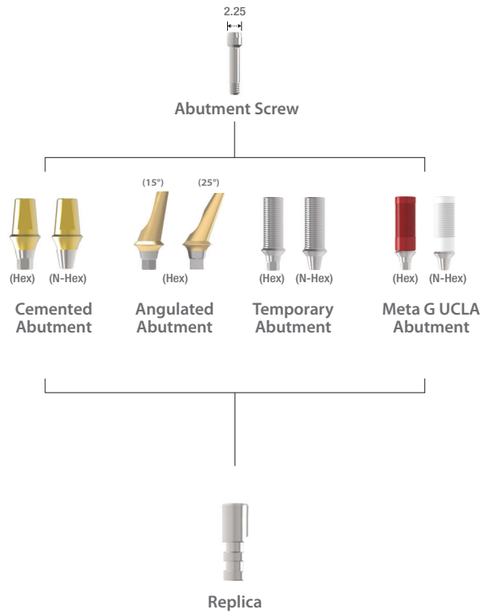


Diameter	Ø3.5		Ø4.5	
Length / *Cuff*	1	2	1	2
0.5	HR3501			
1	HR3511		HS4511N	
2		HR3522		HS4522N
3		HR3532		HS4532N
4		HR3542		HS4542N
5				HS4552N
7				HS4572N

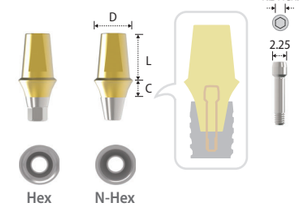
> Packing unit : 1 Healing Abutment.
> For remodeling gingival contour during soft tissue healing.
> Select according to gingival height and abutment type.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Prosthesis Procedure I

Components Selection Guide for Cemented and UCLA Abutment



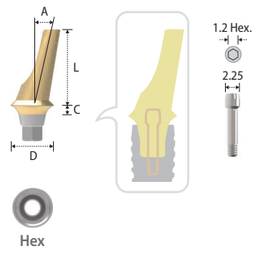
Cemented Abutment



Type	Hex			N-Hex		
Diameter	Ø4.5			Ø4.5		
Cuff \ *Length*	4	5.5	7	4	5.5	7
1	SCH4514N	SCH4515N	SCH4517N	SCN4514N	SCN4515N	SCN4517N
2	SCH4524N	SCH4525N	SCH4527N	SCN4524N	SCN4525N	SCN4527N
3	SCH4534N	SCH4535N	SCH4537N	SCN4534N	SCN4535N	SCN4537N
4	SCH4544N	SCH4545N	SCH4547N	SCN4544N	SCN4545N	SCN4547N
5	SCH4554N	SCH4555N	SCH4557N	SCN4554N	SCN4555N	SCN4557N

> Packing unit : 1 Cemented Abutment + 1 Abutment Screw.
> For Screw-Cement or Cement Retained Prosthesis.
> Cutting surface for anti-rotation of prosthesis.
> Gold color for more translucent restoration.
> Library available for EXOCAD®, 3Shape® & Others.
> Connected with the Abutment Screw (SSHR100N).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20~25 N.cm.
> Use the Scanbody for 3D Work.
> Fixture level impression.

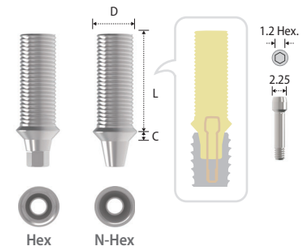
Angulated Abutment



Type	Hex	
Diameter(Angle)	Ø4.5(15°)	Ø4.5(25°)
Cuff \ *Length*	8	8
1	SAH45151NA	SAH45251NA
2	SAH45152NA	SAH45252NA
3	SAH45153NA	SAH45253NA
4	SAH45154NA	SAH45254NA

> Packing unit : 1 Angulated Abutment + 1 Abutment Screw.
> For Screw-Cement or Cement Retained Prosthesis.
> Solution for anterior esthetic zone.
> Gold color for esthetics.
> Connected with the Abutment Screw (SSHR100N).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20~25 N.cm.
> Fixture level impression.

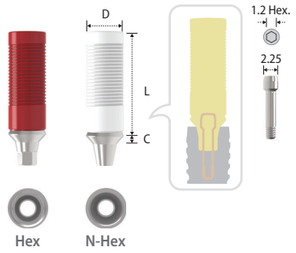
Temporary Abutment



Type	Hex	N-Hex
Diameter	Ø4.5	Ø4.5
Cuff \ *Length*	10	10
1	STHA45N	STNA45N

> Packing unit : 1 Temporary Abutment + 1 Abutment Screw.
> For Screw-Cement Retained Prosthesis.
> For provisional restoration.
> Connected with the Abutment Screw (SSHR100N).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20~25 N.cm.

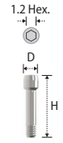
Meta G UCLA Abutment



Type	Hex	N-Hex
Diameter	Ø4.5	Ø4.5
Length / *Cuff*	12	12
1	SGH45N	SGN45N
2	SGH452N	SGN452N
3	SGH453N	SGN453N

> Packing unit : 1 Meta G UCLA Abutment + 1 Abutment Screw.
> For Screw Retained Prosthesis.
> Modification to angulated abutment, customized abutment and telescopic abutment.
> CCM alloy core for precise connection.
> Cast with non-precious metal or gold alloy.
> Connected with the Abutment Screw (SSHR100N).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 20~25 N.cm.
> Fixture level impression.

Abutment Screw



Height \ *Diameter*	2.25
10.2	SSHR100N

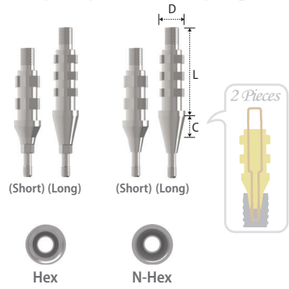
> Packing unit : 1 Abutment Screw.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20~25 N.cm.

Replica

Height \ *Diameter*	Ø4
12.1	SRHR001N

> Packing unit : 1 Replica.
> Mimicking of conical interface of fixture.
> Analog of fixture for working cast.

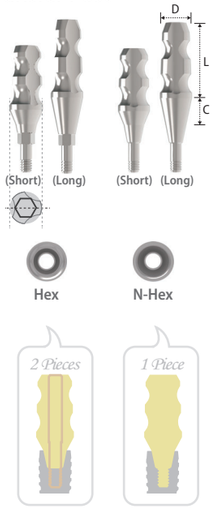
Pick-up Impression Coping



Type	Hex	N-Hex
Diameter / *Length / Cuff*	Ø4.5	Ø4.5
14 (Short) / 2	SIH45SN	SIN45SN
16 (Long) / 4	SIH45LN	SIN45LN

> Packing unit : 1 Pick-up Impression Coping + 1 Guide Pin.
> For open tray impression.
> Connected with the Guide Pin (SIS001SN / SIS001LN).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15Ncm.

Transfer Post

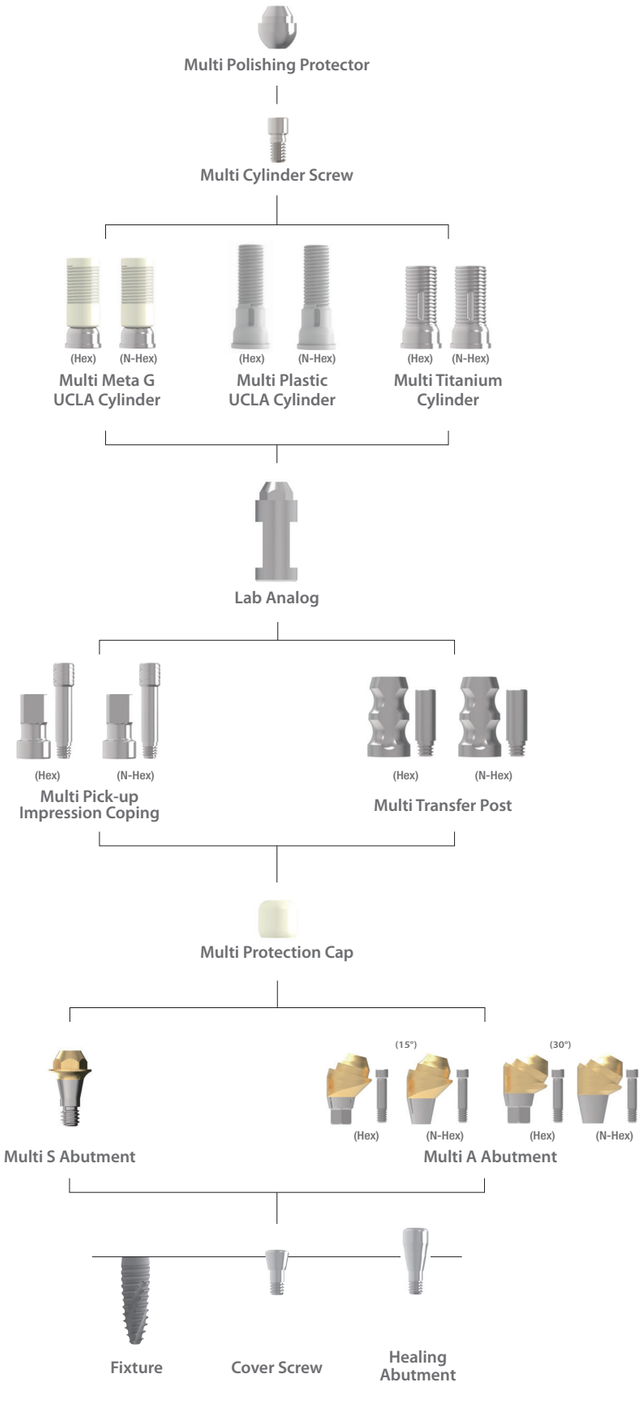


Type	Hex	N-Hex
Diameter / *Length / Cuff*	Ø4.5	Ø4.5
9 (Short) / 2	STH45SN	STN45SN
11 (Long) / 4	STH45LN	STN45LN

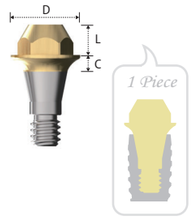
> Packing unit : Hex - 1 Transfer Post + 1 Guide Pin / N-Hex - 1 Transfer Post (Solid Type).
> For closed tray impression.
> Connected with the Guide Pin (STS001SN / STS001LN).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15Ncm.

Prosthesis Procedure II

Component Selection Guide for Multi S&A Abutment



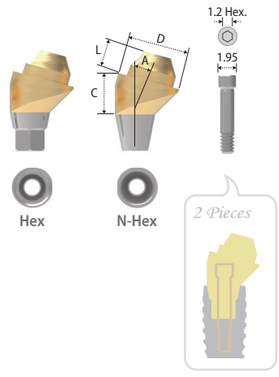
Multi S Abutment



Diameter	Ø4.5
Cuff \ *Length*	2
1	SMS451N
2	SMS452N
3	SMS453N
4	SMS454N

> Packing unit : 1 Multi S Abutment.
> For Screw-Retained Prosthesis.
> Titanium base for the cylinders.
> Gold color for more translucent restoration.
> Integrated with screw and abutment.
> Library available for EXOCAD®, 3Shape® & Others.
> Use the S Holder for more stable position.
> Tightened with the S Machine & S Ratchet Driver and Torque Wrench.
> Tightening torque force : 20~25 N.cm.
> Abutment level impression.

Multi A Abutment

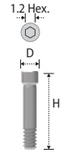


Type	Hex	
Diameter(Angle)	Ø4.5(15°)	Ø4.5(30°)
Cuff \ *Length*	2	2
2	★ SMAH45152N	
3	● SMAH45153N	★ SMAH45303N
4	● SMAH45154N	● SMAH45304N

Type	N-Hex	
Diameter(Angle)	Ø4.5(15°)	Ø4.5(30°)
Cuff \ *Length*	2	2
2	★ SMAN45152N	
3	● SMAN45153N	★ SMAN45303N
4	● SMAN45154N	● SMAN45304N

> Packing unit : 1 Multi A Abutment + 1 Abutment Screw.
> For Screw-Retained Prosthesis.
> Titanium base for the cylinders.
> Gold color for more translucent restoration.
> Library available for EXOCAD®, 3Shape® & Others.
> Use the A Holder for more stable position.
> Connected with the Abutment Screw (SSHR200N : ★ / SSHR300N : ●).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20~25 N.cm.
> Abutment level impression.

Abutment Screw



Height \ *Diameter*	8.7	9.3
Ø1.95	★ SSHR200N	● SSHR300N

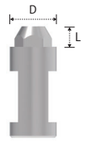
> Packing unit: 1 Abutment Screw.
> To connect the Multi A Abutment.
> Tightened with the 1.2 Hex Driver and Torque Wrench.

Multi Protection Cap

Multi S & A Abutment Diameter	Ø4.5
Diameter / Height	Ø5.2
5	2SMPC45

> Packing unit : 1 Multi Protection Cap.
> Protection from cheek and tongue for gingival healing period.
> Gingival retraction for prosthodontic margin of abutment.
> Alternative usage for sub-structure of temporary prosthesis.

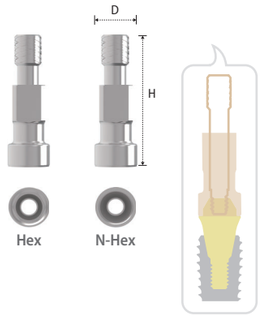
Multi Lab Analog



Multi S & A Abutment Diameter	Ø4.5
Diameter / Length	Ø4.5
2	2SMA45

> Packing unit : 1 Multi Lab Analog.
> Replacement of abutment shape in working cast.

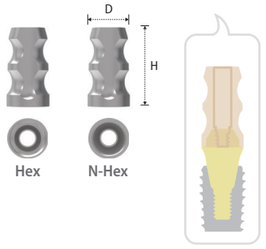
Multi Pick-up Impression Coping



Type	Hex	N-Hex
Multi S & A Abutment Diameter	Ø4.5	Ø4.5
Diameter / Height	Ø4.65	Ø4.65
14.8	2SMIH45	2SMIN45

> Packing unit: 1 Multi Pick-up Impression Coping + 1 Guide Pin.
> For open tray impression.
> Connected with the Guide Pin (2SMGP012).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15 N.cm.

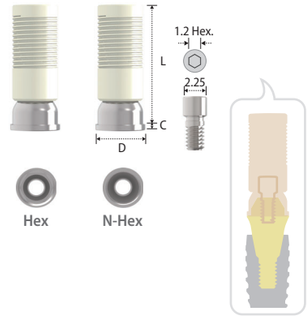
Multi Transfer Post



Type	Hex	N-Hex
Multi S & A Abutment Diameter	Ø4.5	Ø4.5
Diameter / Height	Ø4.5	Ø4.5
8.5	2SMTH45	2SMTN45

> Packing unit: 1 Multi Transfer Post + 1 Guide Pin.
> For closed tray impression.
> Connected with the Guide Pin (2SMTHS100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15 N.cm.

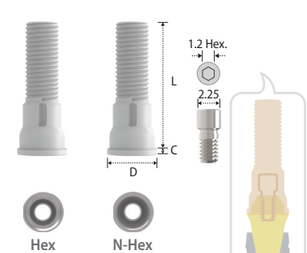
Multi Meta G UCLA Cylinder



Type	Hex	N-Hex
Multi S & A Abutment Diameter	Ø4.5	Ø4.5
Diameter	Ø4.5	Ø4.5
Length / Cuff	10.9	10.9
0.5	2SCCH45	2SCCN45

> Packing unit : 1 Multi Meta G UCLA Cylinder + 1 Multi Cylinder Screw.
> For Screw, Cement or Screw-Cement Retained Prosthesis.
> Modification to various types of abutments.
> CCM alloy core for precise connection.
> Cast with non-precious metal or gold alloy.
> Connected with the Multi Cylinder Screw (2SMCS100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

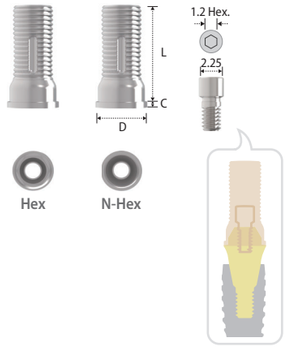
Multi Plastic UCLA Cylinder



Type	Hex	N-Hex
Multi S & A Abutment Diameter	Ø4.5	Ø4.5
Diameter	Ø4.5	Ø4.5
Length / Cuff	11.5	11.5
0.5	2SMPH45	2SMPN45

> Packing unit : 1 Multi Plastic UCLA Cylinder + 1 Multi Cylinder Screw.
> For Screw, Cement or Screw-Cement Retained Prosthesis.
> Same purpose of use as the Meta G UCLA Cylinder but low accuracy of connection.
> PMMA material.
> Connected with the Multi Cylinder Screw (2SMCS100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

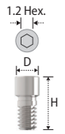
Multi Titanium Cylinder



Type	Hex	N-Hex
Multi S & A Abutment Diameter	Ø4.5	Ø4.5
Diameter	Ø4.5	Ø4.5
Length / Cuff	8.5	8.5
0.5	2STCH45	2STCN45

> Packing unit : 1 Multi Titanium Cylinder + 1 Multi Cylinder Screw.
> For Screw, Cement or Screw-Cement Retained Prosthesis.
> Connected with the Multi Cylinder Screw (2SMCS100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

Multi Cylinder Screw



Diameter / Height	Ø2.25
5	2SMCS100

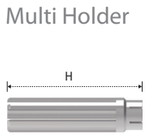
> Packing unit : 1 Multi Cylinder Screw.
> Connected with the Meta G UCLA, Plastic UCLA and Titanium Cylinder.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

Multi Polishing Protector

Type	Hex
Multi S & A Abutment Diameter	Ø4.5
Diameter / Length	Ø4.5
2	2SMPP45

> Packing unit : 1 Multi Polishing Protector.
> For polishing work during lab procedure.

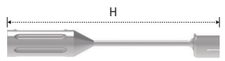
Multi Holder



S Holder

Type / Height	Hand
20	KMHS01

> Packing unit: 1 Multi S Holder.
> To position the Multi S Abutment more stably.



A Holder

Type / Height	Hand
32	KMHA01

> Packing unit: 1 Multi A Holder.
> To position the Multi A Abutment more stably.

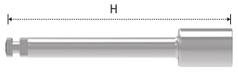
① Connect the Multi A Holder with the Multi A Abutment Screw in it and match the direction of holes of the abutment and the holder.

② Hold the handle of the Multi A Holder and bend it according to the placement position in the oral cavity.

③ Connect the assembled body with the fixture.

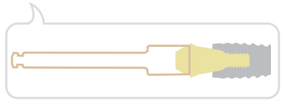
④ Tighten the Multi Abutment with the 1.2 Hex Driver and Torque Wrench.

Multi S Machine Driver

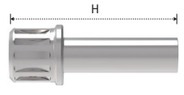


Type / Height	Machine
27.5	KMMSD21L

> Packing unit: 1 Multi S Machine Driver.
> To install the Multi S Abutment by machine.

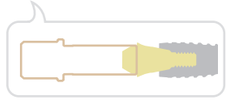


Multi S Ratchet Driver



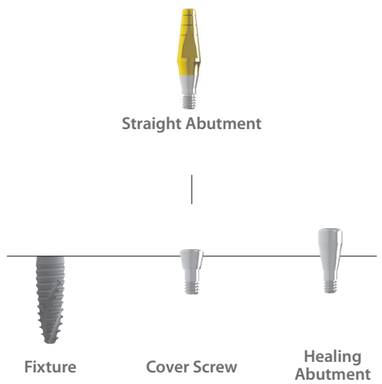
Type / Height	Ratchet
22	KRMSD15L

> Packing unit: 1 Multi S Ratchet Driver.
> To install the Multi S Abutment by hand.

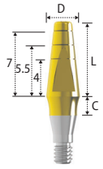


Prosthesis Procedure III

Component Selection Guide for Straight Abutment

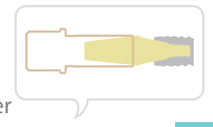


Straight Abutment

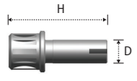


Diameter	Ø3.5				
Length [Cuff]	8 [0.5]	8 [1]	8 [2]	8 [3]	8 [4]
	SR308	SR318	SR328	SR338	SR348

> Packing unit : 1 Straight Abutment.
> For Cement Retained Prosthesis.
> Integrated with screw and abutment.
> Tightened with the Shoulder Driver.
> Tightening torque force : 20~25 N.cm.
> Direct impression.

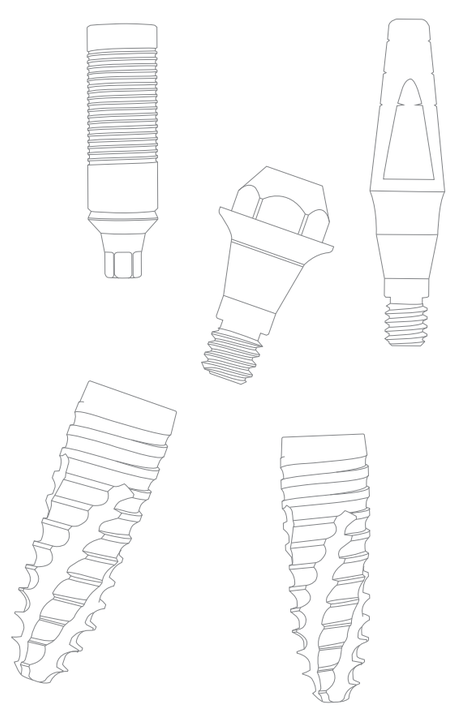


Shoulder Driver



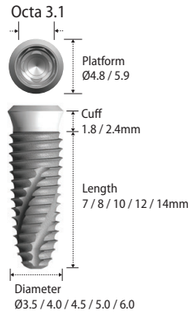
Height \ *Diameter*	Ø4.5
19	KRR19L

> Packing unit : 1 Shoulder Driver.
> To install the Straight Abutment.



INNO INTERNAL IMPLANT (Int.)

System Flow

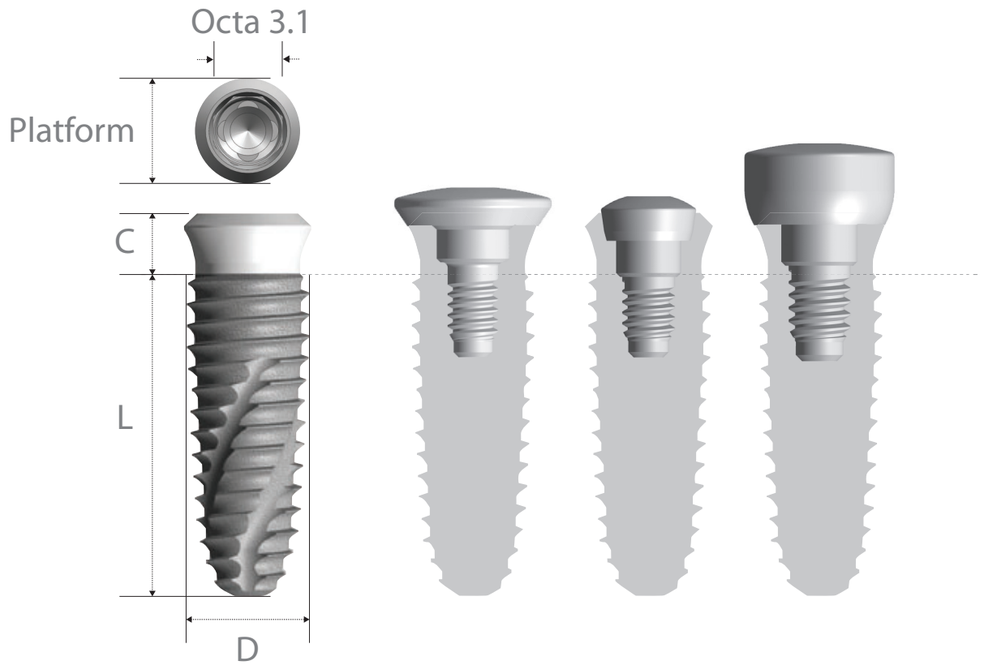
Fixture		Abutment		Impression
	Prosthetic Procedure I	077p  Cemented 077p  Angulated 077p  Meta G UCLA	Fixture Level Impression	078p  Replica 078p  Pick-up Impression Coping 078p  Transfer Post
	Prosthetic Procedure II	080p  Solid		080p  Solid Protection Cap 080p  Solid Impression Cap 081p  Solid Positioning Cylinder 081p  Solid Lab Analog 081p  Solid Plastic Coping
	Prosthetic Procedure III	083p  Shoulder	Abutment Level Impression	083p  Shoulder Abutment Cap 083p  Shoulder Impression Cap 083p  Shoulder Positioning Cylinder 083p  Shoulder Lab Analog
	Prosthetic Procedure IV	085p  Sonator S Abutment		086p  Impression Coping 086p  Sonator Analog
	Prosthetic Procedure V	089p  Ball		089p  Ball Analog

INNO Internal Impant (Int.)

INT. OCTAGON SYSTEM

Internal Fixture
Surface Treatment : **SLA-SH®**

> Interchangeable with 1 staged internal fixture.
> Internal Octa Connection (Taper 8°/ Octa 3.1).
> No-Mount type.



INNO Fixture Code

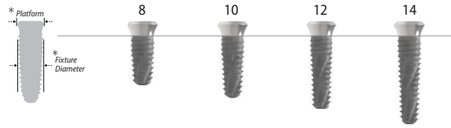
I	P	T	40	10	S	M	*Ex.)
Type **I**nternal	**P**=Cuff 1.8	body **T**aper	Diameter Ø**4.0**	Length **10**mm	Surface Treatment **S**LA	Mount No-**M**ount	SLA Cuff 1.8 No-Mount IPT4010SM

I		T	40	10	S	M	*Ex.)
Type **I**nternal	Cuff 2.4	body **T**aper	Diameter Ø**4.0**	Length **10**mm	Surface Treatment **S**LA	Mount No-**M**ount	SLA Cuff 2.4 No-Mount IT4010SM

No-Mount *Cuff 1.8mm fixture* > Packing unit : 1 Fixture + 1 Cover Screw.

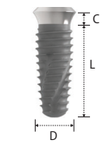
Length \ * Diameter	Ø3.5
7	-
8	IPT3508SM
10	IPT3510SM
12	IPT3512SM
14	IPT3514SM

* Platform : Ø4.8



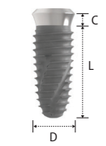
Length \ * Diameter	Ø4.0
7	IPT4007SM
8	IPT4008SM
10	IPT4010SM
12	IPT4012SM
14	IPT4014SM

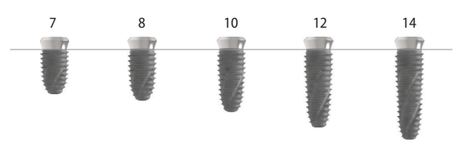
* Platform : Ø4.8



Length \ * Diameter	Ø4.5
7	IPT4507SM
8	IPT4508SM
10	IPT4510SM
12	IPT4512SM
14	IPT4514SM

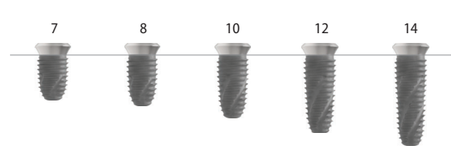
* Platform : Ø4.8





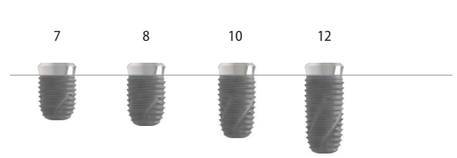
Length \ * Diameter	Ø5.0
7	IPT5007SM
8	IPT5008SM
10	IPT5010SM
12	IPT5012SM
14	IPT5014SM

* Platform : Ø5.9



Length \ * Diameter	Ø6.0
7	IPT6007SM
8	IPT6008SM
10	IPT6010SM
12	IPT6012SM
14	-

* Platform : Ø5.9

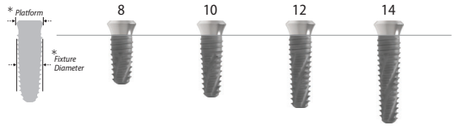


No-Mount *Cuff 2.4mm fixture*

> Packing unit : 1 Fixture + 1 Cover Screw.

* Diameter / Length	Ø3.5
7	-
8	IT3508SM
10	IT3510SM
12	IT3512SM
14	IT3514SM

* Platform : Ø4.8

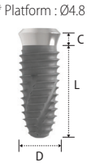


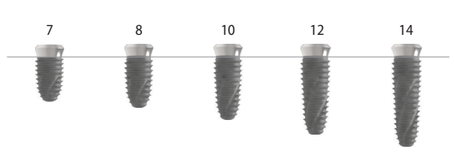
* Diameter / Length	Ø4.0
7	IT4007SM
8	IT4008SM
10	IT4010SM
12	IT4012SM
14	IT4014SM

* Platform : Ø4.8

* Diameter / Length	Ø4.5
7	IT4507SM
8	IT4508SM
10	IT4510SM
12	IT4512SM
14	IT4514SM

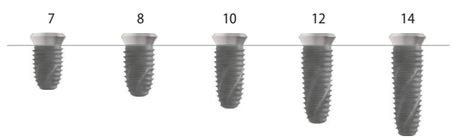
* Platform : Ø4.8





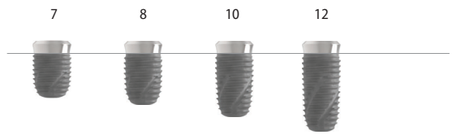
* Diameter / Length	Ø5.0
7	IT5007SM
8	IT5008SM
10	IT5010SM
12	IT5012SM
14	IT5014SM

* Platform : Ø5.9



* Diameter / Length	Ø6.0
7	IT6007SM
8	IT6008SM
10	IT6010SM
12	IT6012SM
14	-

* Platform : Ø5.9



Cover Screw

Platform [Fixture Dia.]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]
Height \ Diameter	Ø5.0	Ø6.0
6.5	ICVR002	ICVW002

> Packing unit : 1 Cover Screw.
> To seal the conical interface of fixture.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Headless Screw

Height \ Diameter	Ø3.5
6	ICVR001

> Packing unit : 1 Headless Screw.
> For narrow mesio-distal distance.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

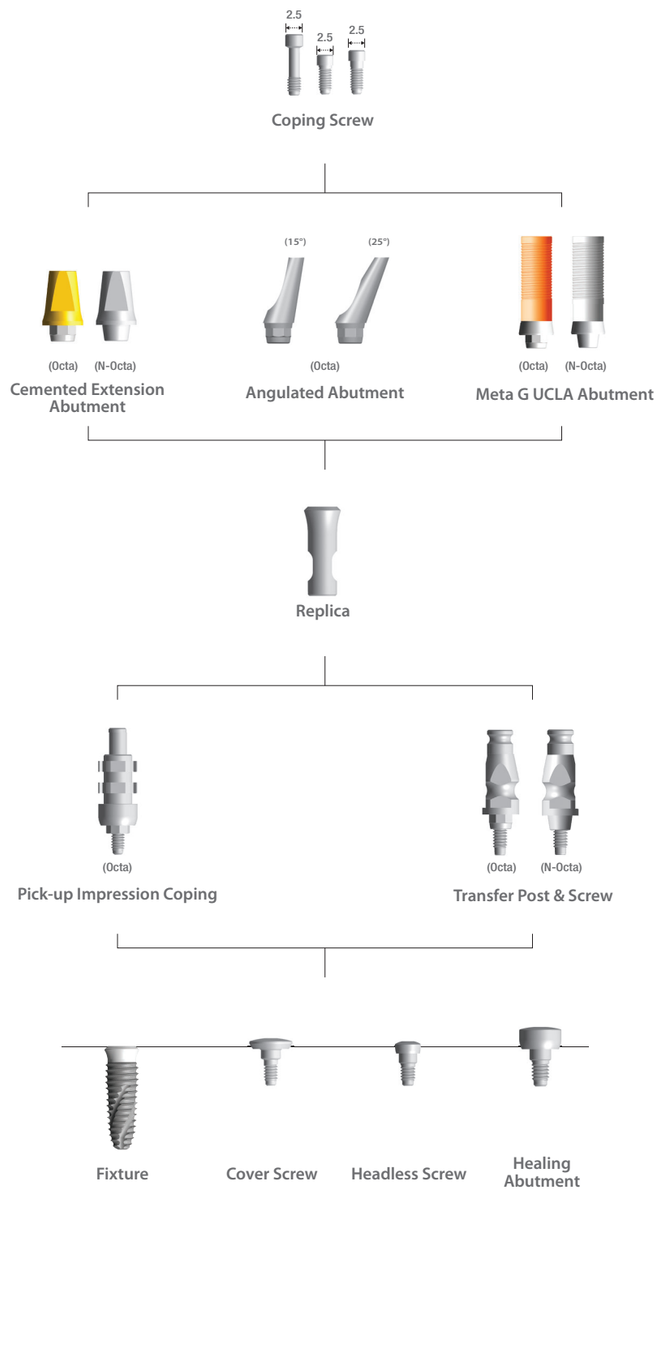
Healing Abutment

Platform [Fixture Dia.]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]
Length \ Diameter	Ø5.5	Ø6.6
2	IHCR020	IHCW020
3	IHCR030	IHCW030
4.5	IHCR045	IHCW045

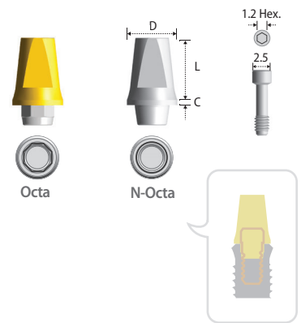
> Packing unit : 1 Healing Abutment.
> For remodeling gingival contour during soft tissue healing.
> Select according to gingival height and abutment type.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Prosthetic Procedure I

Component Selection Guide for Cemented & UCLA Abutment



Cemented Extension Abutment

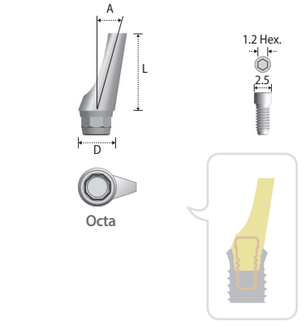


Type	Octa			
Platform [Fixture Dia.]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]		Ø5.9 [Ø5.0 / Ø6.0]	
Diameter	Ø4.8	Ø5.8	Ø5.9	Ø6.9
Cuff \ *Length*	6	6	6	6
0.5	IECR406		IECW506	
1		IECR416		IECW516
2		IECR426		IECW526
3		IECR436		IECW536

Type	N-Octa			
Platform [Fixture Dia.]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]		Ø5.9 [Ø5.0 / Ø6.0]	
Diameter	Ø4.8	Ø5.8	Ø5.9	Ø6.9
Cuff \ *Length*	6	6	6	6
0.5	IENR406		IENW506	
1		IENR416		IENW516
2		IENR426		IENW526
3		IENR436		IENW536

> Packing unit : 1 Cemented Extension Abutment + 1 Abutment Screw.
> For Cement Retained or Screw-Cement Retained Prosthesis.
> Cutting surface for anti-rotation of prosthesis.
> Connected with the Abutment Screw (ISHR110).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Fixture level impression.

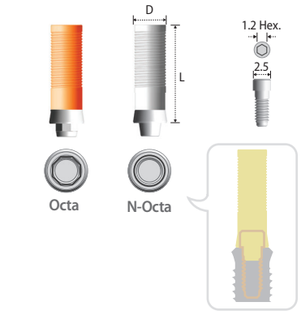
Angulated Abutment



Type	Octa	
Platform [Fixture Dia.]	Ø4.8 & Ø5.9 [Ø3.5 / Ø4.0 / Ø4.5 / Ø5.0 / Ø6.0]	
Diameter(Angle) \ *Length*	3.8 (15°)	3.8 (25°)
8	IAAR158A	IAAR258A

> Packing unit : 1 Angulated Abutment + 1 Abutment Screw.
> For Cement Retained or Screw-Cement Retained Prosthesis.
> Solution for anterior esthetic zone.
> Connected with the Abutment Screw (ISHR100).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Fixture level impression.

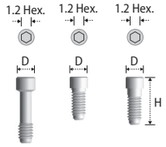
Meta G UCLA Abutment



Type	Octa		N-Octa	
Platform [Fixture Dia.]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]
Diameter \ *Length*	Ø5	Ø6	Ø5	Ø6
12	IGOR400N	IGOW500N	IGNR400N	IGNW500N

> Packing unit : 1 Meta G UCLA Abutment + 1 Abutment Screw.
> For Screw-Cement or Screw Retained Prosthesis.
> Modification to angulated abutment, customized abutment and telescopic abutment.
> CCM alloy core for precise connection.
> Cast with non-precious metal or gold alloy.
> Connected with the Abutment Screw (ISHR120).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Fixture level impression.

Abutment Screw



Height \ Diameter	Ø2.5	Ø2.5	Ø2.5
6.3		ISHR100	
7.8			ISHR120
9.2	ISHR110		

> Packing unit : 1 Abutment Screw.
> ISHR110 : Cemented Abutment.
> ISHR100 : Angulated Abutment.
> ISHR120 : Meta G Abutment.
> Tightened with the 1.2 Hex Driver and Torque Wrench.

Replica

Platform [Fixture Dia.]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]
Height \ Diameter	Ø4.8	Ø5.9
12	IROR001	IROW001

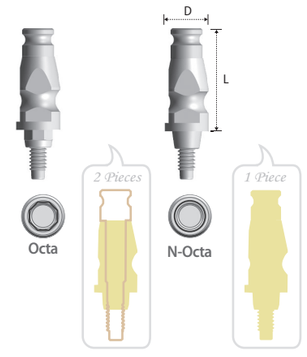
> Packing unit : 1 Replica.
> Mimicking of conical interface of fixture.
> Analog of fixture for working cast.

Pick-up Impression Coping

Type	Octa	
Platform [Fixture Dia.]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]
Length \ Diameter	Ø5.5	Ø6.6
13.7	IIOR001	IIOW001

> Packing unit : 1 Pick-up Impression Coping + 1 Guide Pin.
> For open tray impression.
> Connected with the Guide Pin (IIOR001S).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15 N.cm.

Transfer Post

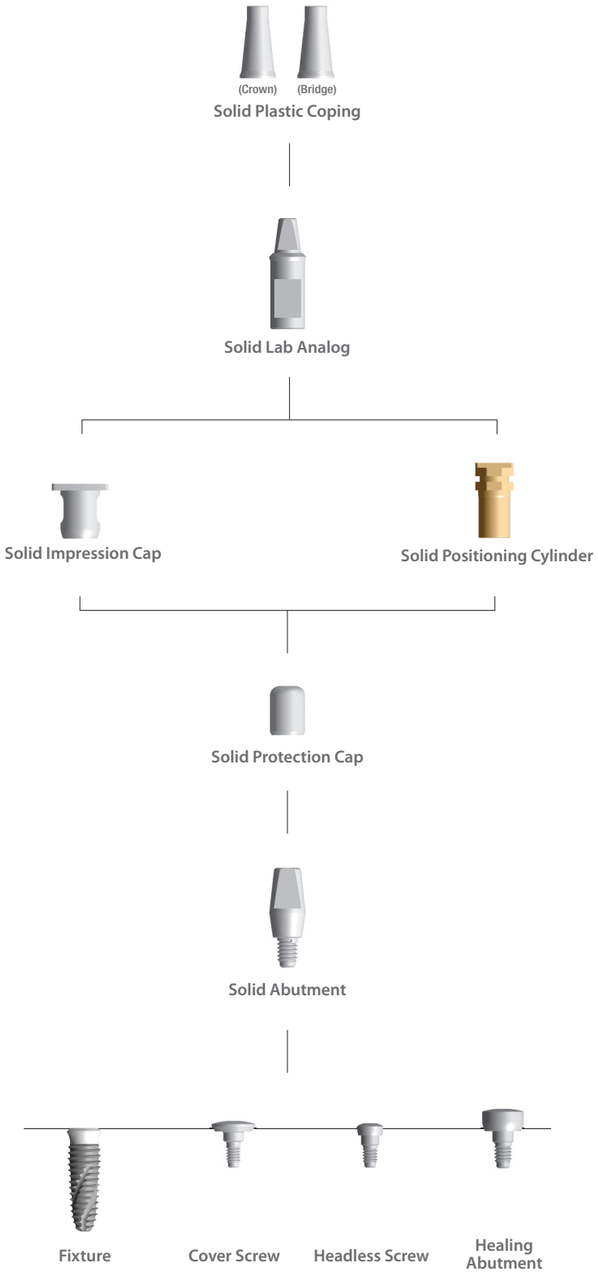


Type	Octa		N-Octa	
Platform [Fixture Dia.]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]
Length \ Diameter	Ø4.85	Ø5.95	Ø4.85	Ø5.95
11.6	ITOR400	ITOW500	ITNR400	ITNW500

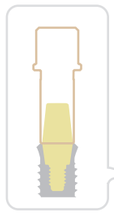
> Packing unit : Octa - 1 Transfer Post + 1 Guide Pin / N-Octa - 1 Transfer Post (Solid Type).
> For closed tray impression.
> Connected with the Guide Pin (Regular: ITOR400S / Wide: ITOW500S).
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15 N.cm.

Prosthetic Procedure II

Component Selection Guide for Solid Abutment



Solid Abutment

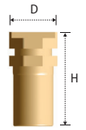


Platform [Fixture Dia.]	Ø4.8 & Ø5.9 [Ø3.5 / Ø4.0 / Ø4.5 / Ø5.0 / Ø6.0]			
Diameter	Ø3.5			
Length	3	4	5.5	7
	IASR030	IASR040	IASR055	IASR070

> Packing unit : 1 Solid Abutment + 1 Abutment Cap.
> For Cement Retained Prosthesis.
> Cutting surface for anti-rotation of prosthesis.
> Integrated with screw and abutment.
> Tightened with the Shoulder Driver.
> Tightening torque force : 30 N.cm.
> Abutment level impression :
Impression cap in platform Ø4.1 fixture and direct impression in platform Ø5.8 fixture.


Shoulder Ø4.5 KRR19L

Solid Positioning Cylinder



Solid Abutment Diameter / Diameter / Height	Ø3.5
	Ø5.7
10.2	IPCR001

> Packing unit : 1 Solid Positioning Cylinder.
> Inner cutting surface for anti-rotation on abutment.
> Insert into the Impression Cap.

Solid Protection Cap

Solid Abutment Diameter / Diameter / Height	Ø3.5
	Ø5.4
5.2	IASR130
6.2	IASR140
7.7	IASR155
9.2	IASR170

> Packing unit : 1 Solid Protection Cap.
> Protection from cheek and tongue for gingival healing period.
> Alternative usage for sub-structure of temporary prosthesis.

Solid Lab Analog

Solid Abutment Diameter	Ø3.5			
Diameter	Ø4.8			
Length	3	4	5.5	7
	ILSR030	ILSR040	ILSR055	ILSR070

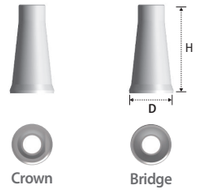
> Packing unit : 1 Solid Lab Analog.
> Replacement of abutment shape in working cast.
> Choose by abutment length.

Solid Impression Cap

Solid Abutment Diameter / Diameter / Height	Ø3.5
	8
8	IICR001

> Packing unit : 1 Solid Impression Cap.
> Connected with the Solid Positioning Cylinder.
> Confirm locking with abutment by rotation of clockwise and anti-clockwise direction.

Solid Plastic Coping

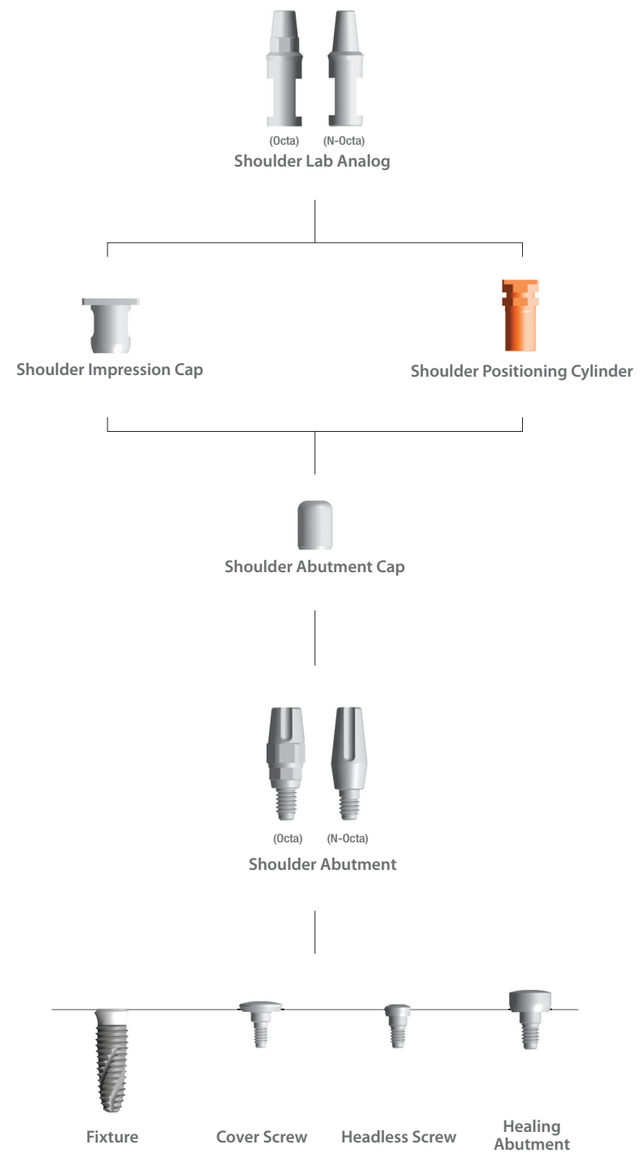


Type	Crown	Bridge
Solid Abutment Diameter	Ø3.5	Ø3.5
Diameter / Height	Ø5	Ø5
10	IPCC001	IPCB001

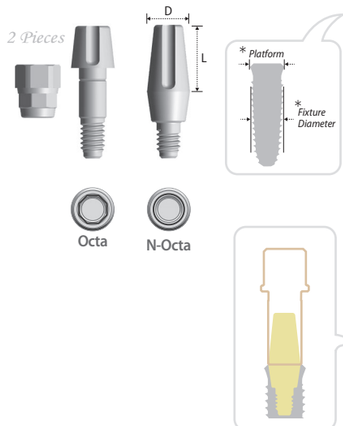
> Packing unit : 1 Solid Plastic Coping.
> Connect with the Lab Analog.
> Burn out and casting for metal framework.

Prosthetic Procedure III

Component Selection Guide for Shoulder Abutment



Shoulder Abutment



Type	Octa		N-Octa	
* *Platform [Fixture Dia.]*	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]	Ø4.8 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.9 [Ø5.0 / Ø6.0]
Length \ *Diameter*	Ø3.5	Ø4.5	Ø3.5	Ø4.5
4	ISAC404	ISAC504	ISAB404	ISAB504
5.5	ISAC405	ISAC505	ISAB405	ISAB505
7	ISAC407	ISAC507	ISAB407	ISAB507

> Packing unit : 1 Shoulder Abutment + 1 Abutment Cap.
> For Cement Retained Prosthesis.
> Dual anti-rotation grip with single crown for prevention of screw loosening.
> Integrated with the Screw and Abutment.
> Tightened with the Shoulder Driver.
> Tightening torque force : 30 N.cm.
> Abutment level impression.


Shoulder Ø4.5 **KRR19L**

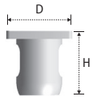

Shoulder Ø5.0 **KRW19L**

Shoulder Abutment Cap

Shoulder Abutment Diameter	Ø3.5	Ø4.5
Height \ *Diameter*	Ø5.4	Ø5.4
6.2	IASR140	IASW140
7.7	IASR155	IASW155
9.2	IASR170	IASW170

> Packing unit : 1 Shoulder Abutment Cap.
> Protection from cheek and tongue for gingival healing period.
> Alternative usage for sub-structure of temporary prosthesis.

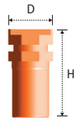
Shoulder Impression Cap



Shoulder Abutment Diameter	Ø3.5	Ø4.5
Height \ *Diameter*	8	9
8	IICR001	IICW001

> Packing unit : 1 Shoulder Impression Cap.
> Connected with the Shoulder Positioning Cylinder.
> Confirm locking with abutment by rotation of clockwise and anti-clockwise direction.

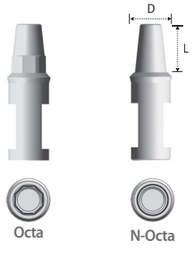
Shoulder Positioning Cylinder



Shoulder Abutment Diameter	Ø3.5	Ø4.5
Height \ *Diameter*	5.7	6.8
10.7	SAPR001	SAPW001

> Packing unit : 1 Shoulder Positioning Cylinder.
> Inner cutting surface for anti-rotation on abutment.
> Insert into the Impression Cap.

Shoulder Lab Analog

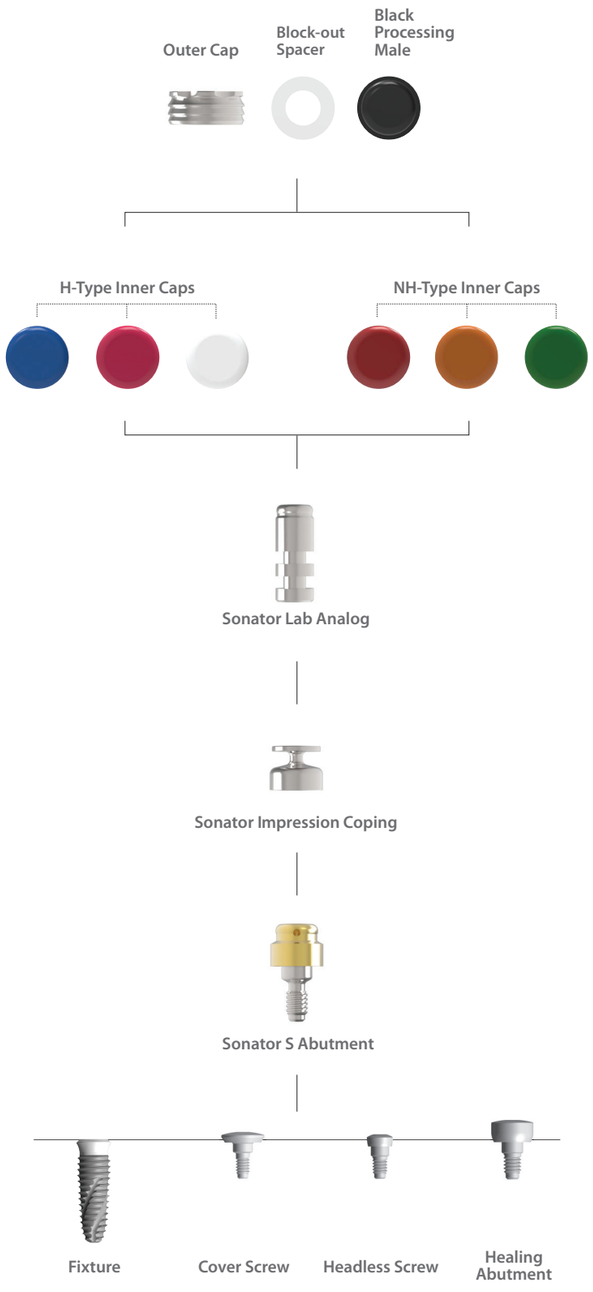


Type	Octa		N-Octa	
Shoulder Abutment Diameter	Ø3.5	Ø4.5	Ø3.5	Ø4.5
Length \ *Diameter*	Ø4.8	Ø5.9	Ø4.8	Ø5.9
4	SLCR040	SLCW040	SLBR040	SLBW040
5.5	SLCR055	SLCW055	SLBR055	SLBW055
7	SLCR070	SLCW070	SLBR070	SLBW070

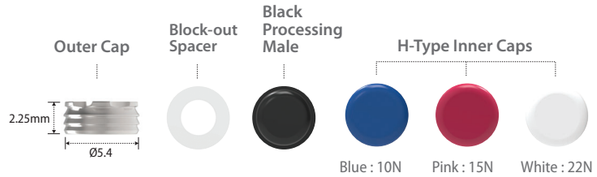
> Packing unit : 1 Shoulder Lab Analog.
> Replacement of abutment shape in working cast.
> Choose according to width and length of abutment.

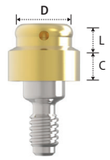
Prosthetic Procedure IV

Component Selection Guide for Sonator Abutment



Sonator S Abutment

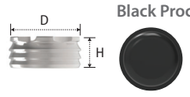




Diameter / *Length* \ *Cuff*	Ø4.0			
	0.6	2	3	4
1.5	IONS401	IONS402	IONS403	IONS404

> Packing unit : 1 Sonator S Abutment + 1 Carrier + 3 H-Type Inner Caps + 1 Outer Cap + 1 Block-out Spacer + 1 Black Processing Male.
> For Implant Supported Over-denture Prosthesis.
> Stable with low vertical height.
> 6 kinds of the Inner Caps give various holding force (Both, H and NH-Type Inner Caps are used for the Sonator S Abutment).
> Path compensation up to 20° based on 2 implants.
> Carrier : Used for delivery of the abutment.
> Tightened with the Ratchet Driver and Torque wrench.
> Tightening torque force : 30 N.cm.
> Abutment level impression.

Outer Cap



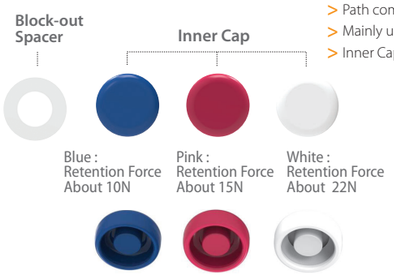
Height \ *Diameter*	Ø5.4
2.25	SONOC01

> Packing unit : 2 Outer Caps and 2 Black Processing Males.
> Black Processing Male : Inserted and Removed with the I&R Driver.

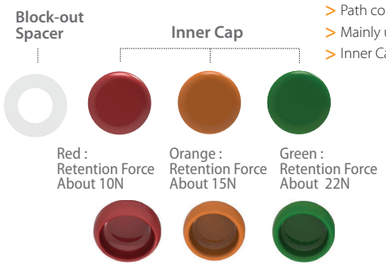
H-Type Inner Cap

Code	SONIC01

> Packing unit : 3 Block-out Spacers + 3 Inner Caps (1 Blue, 1 Pink and 1 White).
> Path compensation up to 20° based on 2 implants.
> Mainly used for the Sonator S Abutment.
> Inner Caps : Inserted and Removed with the I&R Driver.



NH-Type Inner Cap



Code	SONIC02

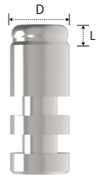
> Packing unit : 3 Block-out Spacers + 3 Inner Caps (1 Red, 1 Orange and 1 Green).
> Path compensation up to 40° based on 2 implants.
> Mainly used for the Sonator A Abutment.
> Inner Caps : Inserted and Removed with the I&R Driver.

Sonator Impression Coping

Length \ Diameter	Ø4.8
3	SONIP04

> Packing unit : 4 Impression Copings and 4 Black Processing Males.
> Abutment level pick-up impression.
> Connected over the Sonator Abutment after placing the Block-out Spacer.
> For close tray impression.

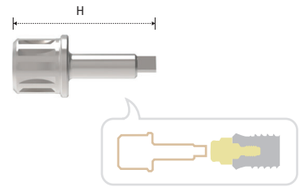
Sonator Lab Analog



Length \ Diameter	Ø4
1.4	SONLA04

> Packing unit : 4 Sonator Lab Analogs.
> Replacement of abutment shape in working cast.

Sonator S Ratchet Driver

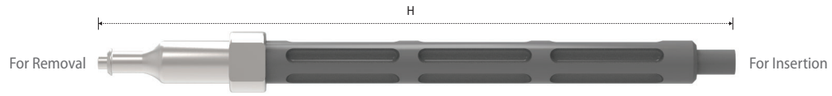


Height \ Type	Ratchet
18	SONRD19L

> Used to tighten and untighten the Sonator S Abutment.

I & R Driver

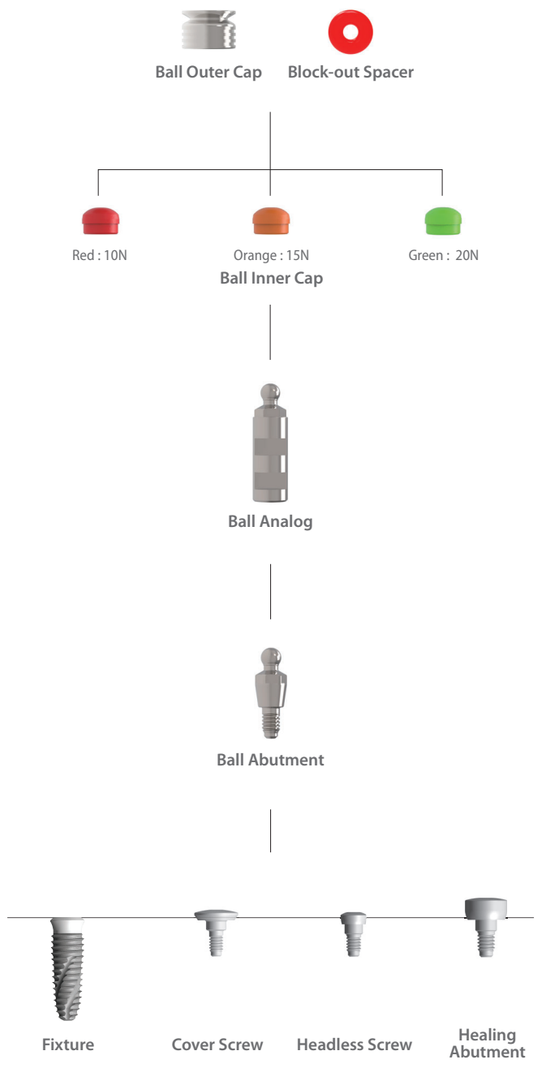
Height	95.4
	SONIR002



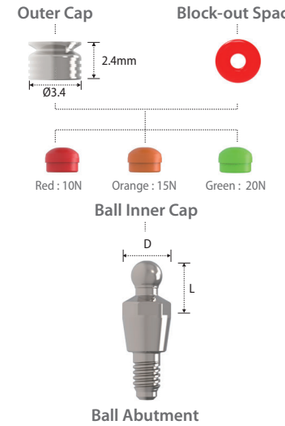
> Used to insert and remove the Inner Caps and Block Processing Male.

Prosthetic Procedure V

Component Selection Guide for Ball Abutment



Ball Abutment



Length \ Diameter	Ø3.5
4	IBAT404R

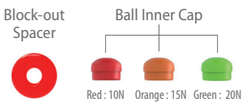
> Packing unit : 1 Ball Abutment + 3 Inner Caps (1 per each color) + 1 Block-out Spacer + 1 Outer Cap.
> For Implant Supported Over-denture Prosthesis.
> Tightened with the Ball Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Direct impression.

Ball Outer Cap

Height \ Diameter	Ø3.4
2.4	BATC003C

> Packing unit : 2 Outer Caps.

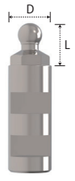
Ball Inner Cap



BATC003I

> Packing unit : 2 Block-out Spacers + 6 Inner Caps (2 per each color).
> Retention force : Red 10N, Orange 15N & Green 20N.

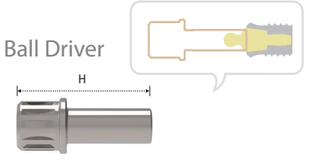
Ball Analog



Length \ Diameter	Ø4.0
4	SBAL400

> Packing unit : 4 Lab Analogs.
> Replacement of abutment shape in working cast.

Ball Driver



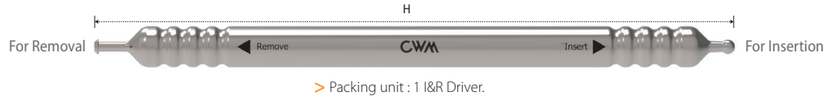
Height \ Type	Ratchet
19	KRB19L

*Extra Product

> Packing unit : 1 Ball Driver.
> Used with the Torque Wrench to tighten and untighten the Ball Abutment.

I&R Driver

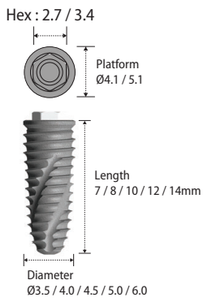
Height	100
	KBIR01



> Packing unit : 1 I&R Driver.
> Used to insert and remove the Inner Caps into and out of the Outer Cap.

INNO EXTERNAL IMPLANT (Ext.)

System Flow

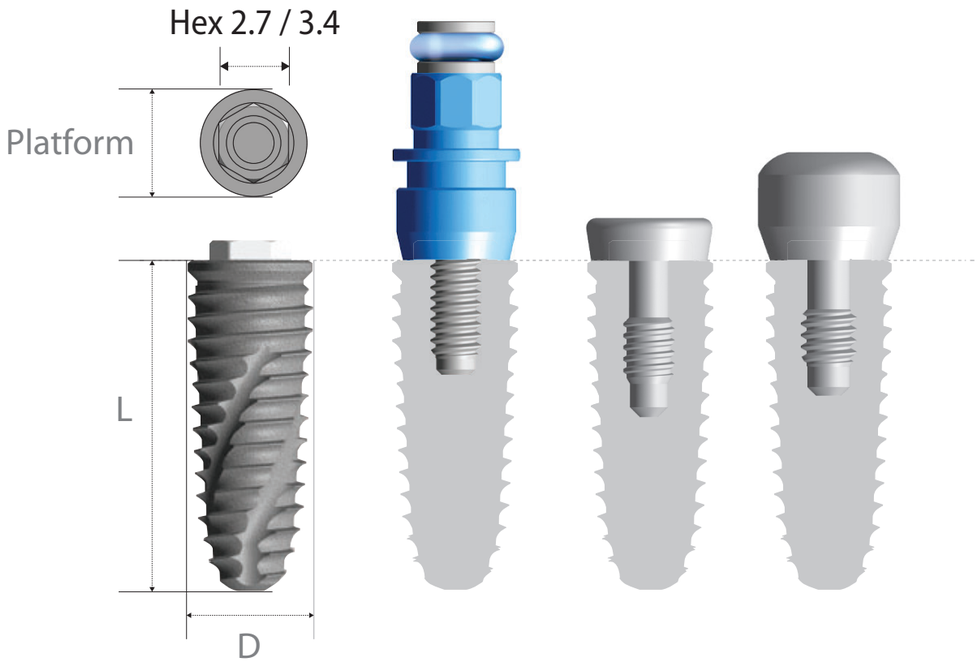
Fixture		Abutment		Impression
	Prosthetic Procedure I	 Cemented  Angulated  Temporary  Meta G UCLA  Plastic UCLA	Fixture Level Impression	 Replica  Pick-up Squared Impression Coping  Transfer Post
	Prosthetic Procedure II	 Shoulder	Abutment Level Impression	 Shoulder Abutment Cap  Shoulder Impression Cap  Shoulder Positioning Cylinder  Shoulder Lab Analog
	Prosthetic Procedure III	 Ball		 Ball Analog

INNO External Implant (Ext.)

EXT. HEXAGON SYSTEM

External Fixture
Surface Treatment : **SLA-SH®**

> Interchangeable with external hexagonal fixture.
> External hex connection (Hex 2.7 / 3.4).



INNO Fixture Code

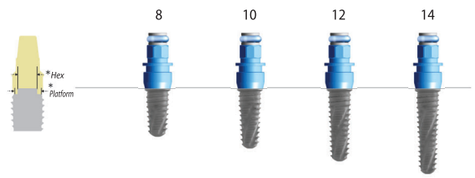
E	T	40	10	S	
Type	body	Diameter	Length	Surface Treatment	Mount
External	**T**aper	Ø**4.0**	**10**mm	**S**LA	Pre-Mount

*Ex.)
SLA Pre-Mount ET4010S

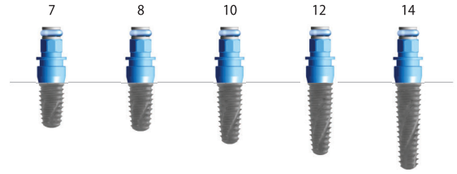
Pre-Mount

> Packing unit :1 Fixture + 1 Mount + 1 Mount Screw.

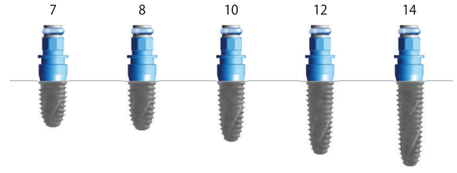
Length \ * Diameter	Ø3.5
7	-
8	ET3508S
10	ET3510S
12	ET3512S
14	ET3514S



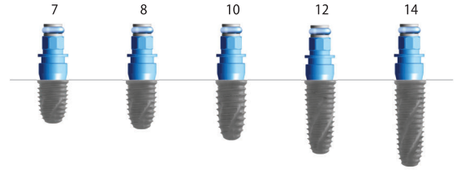
Length \ * Diameter	Ø4.0
7	ET4007S
8	ET4008S
10	ET4010S
12	ET4012S
14	ET4014S



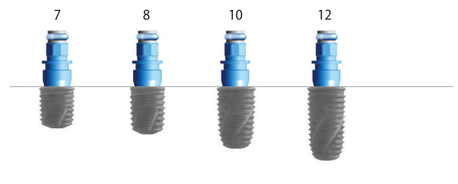
Length \ * Diameter	Ø4.5
7	ET4507S
8	ET4508S
10	ET4510S
12	ET4512S
14	ET4514S



Length \ * Diameter	Ø5.0
7	ET5007S
8	ET5008S
10	ET5010S
12	ET5012S
14	ET5014S



Length \ * Diameter	Ø6.0
7	ET6007S
8	ET6008S
10	ET6010S
12	ET6012S
14	-

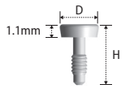


Fixture Mount

Hex	Hex2.7	Hex3.4
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Length \ *Diameter*	Ø4.9	Ø5.5
7.2	MER001	MEW002

> Packing unit : 1 Mount + 1 Mount Screw.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Cover Screw



Hex	Hex2.7	Hex3.4
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Height \ *Diameter*	Ø4.3	Ø5.4
5.8	VNR001	VNW001

> Packing unit : 1 Cover Screw.
> To seal the conical interface of fixture.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

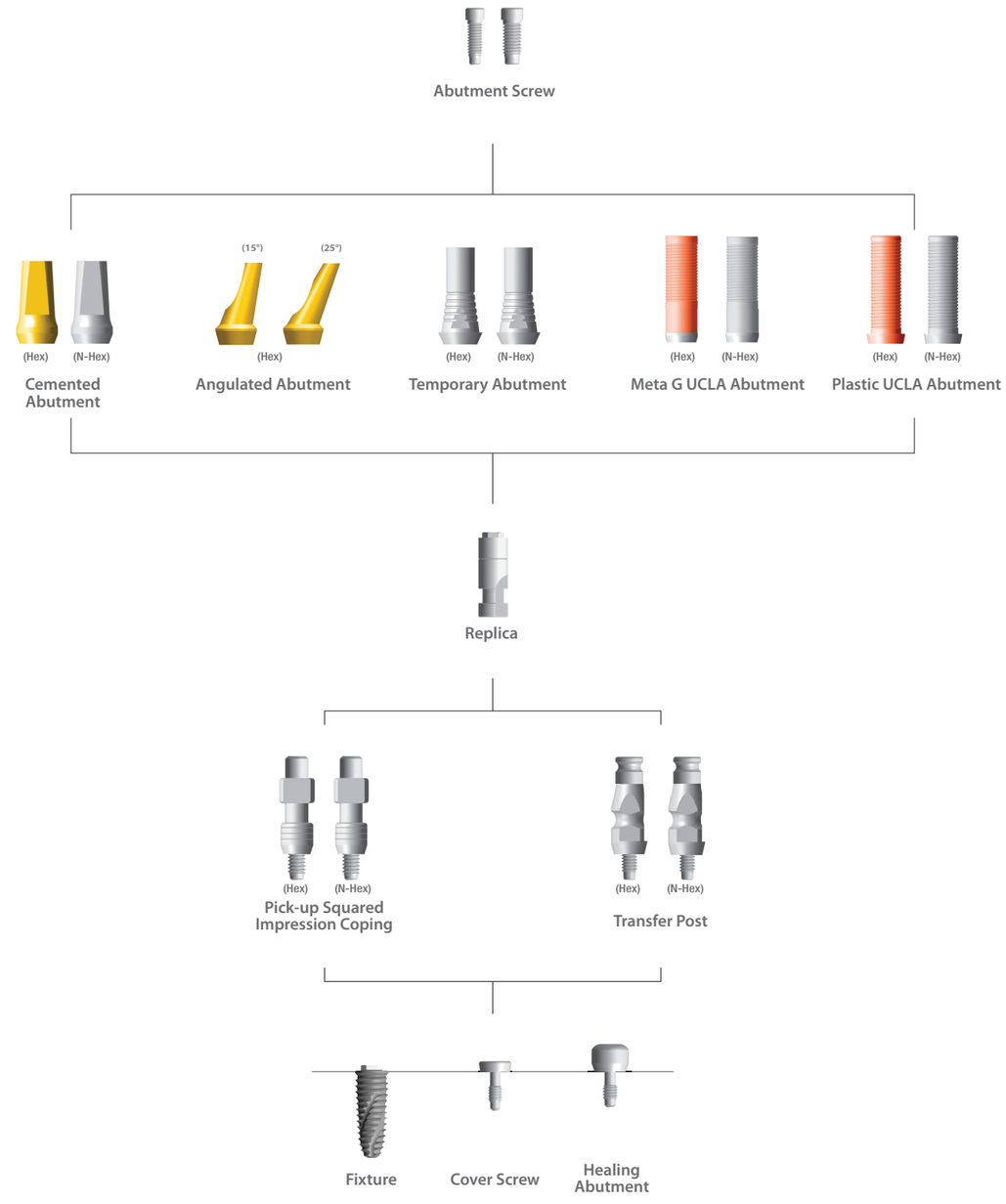
Healing Abutment

Hex	Hex2.7	Hex3.4
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Length \ *Diameter*	Ø5.0	Ø6.0
2.8	HNR502	HNW602
3.8	HNR503	HNW603
4.8	HNR504	HNW604
5.8	HNR505	HNW605
6.8	HNR506	HNW606
7.8	HNR507	HNW607

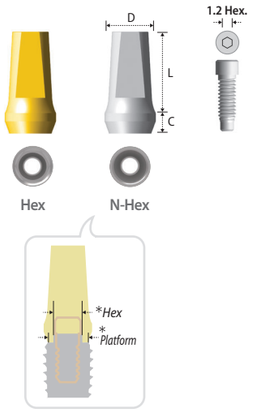
> Packing unit : 1 Healing Abutment.
> For remodeling gingival contour during soft tissue healing.
> Select according to gingival height and abutment type.
> Tightened with the 1.2 Hex Driver.
> Tightening torque force : 5~10 N.cm.

Prosthetic Procedure I

Component Selection Guide for Cemented & UCLA Abutment



Cemented Abutment

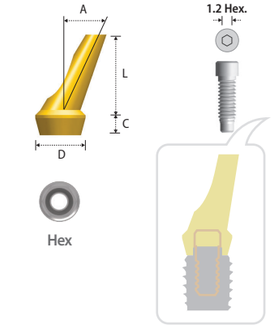


* Type[Hex]	Hex[2.7]		Hex[3.4]	
* Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]		Ø5.1 [Ø5.0 / Ø6.0]	
Diameter	Ø5.0		Ø6.0	
Cuff \ Length	6	8	6	8
1	CHR516	CHR518	CHW616	CHW618
2	CHR526	CHR528	CHW626	CHW628
3	CHR536	CHR538	CHW636	CHW638
4	CHR546	CHR548	CHW646	CHW648

Type[Hex]	N-Hex			
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]		Ø5.1 [Ø5.0 / Ø6.0]	
Diameter	Ø5.0		Ø6.0	
Cuff \ Length	6	8	6	8
1	CNR516	CNR518	CNW616	CNW618
2	CNR526	CNR528	CNW626	CNW628
3	CNR536	CNR538	CNW636	CNW638
4	CNR546	CNR548	CNW646	CNW648

> Packing unit : 1 Cemented Abutment + 1 Abutment Screw.
> For Cement Retained and Screw-Cement Retained Prosthesis.
> Cutting surface for anti-rotation of prosthesis.
> Connected with the Abutment Screw.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm
> Fixture level impression.

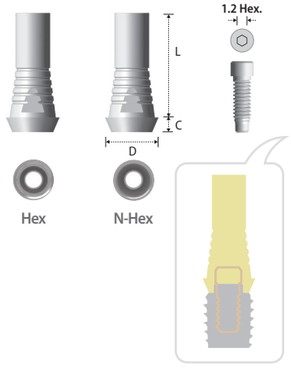
Angulated Abutment



Type[Hex]	Hex[2.7]	Hex[3.4]	Hex[2.7]	Hex[3.4]
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Diameter (Angle)	Ø5 (15°)	Ø6 (15°)	Ø5 (25°)	Ø6 (25°)
Cuff \ Length	8	8	8	8
2	AAR152	AAW152	AAR252	AAW252
3	AAR153	AAW153	AAR253	AAW253
4	AAR154	AAW154	AAR254	AAW254

> Packing unit : 1 Angulated Abutment + 1 Abutment Screw.
> For Screw-Cement or Cement Retained Prosthesis.
> Solution for anterior esthetic zone.
> Connected with the Abutment Screw.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Fixture level impression.

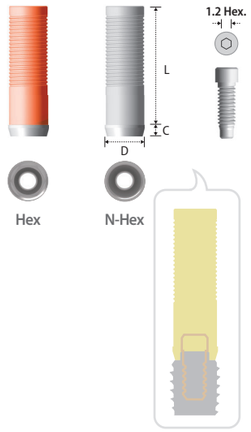
Temporary Abutment



Type[Hex]	Hex[2.7]	Hex[3.4]	N-Hex	N-Hex
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Diameter	Ø5.4	Ø5.95	Ø5.4	Ø5.95
Cuff \ Length	12	12	12	12
1.5	THR001	THW001	TNR001	TNW001

> Packing unit : 1 Temporary Abutment + 1 Abutment Screw.
> For Screw-Cement Retained Prosthesis.
> For provisional restoration.
> Connected with the Abutment Screw.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 20 N.cm.

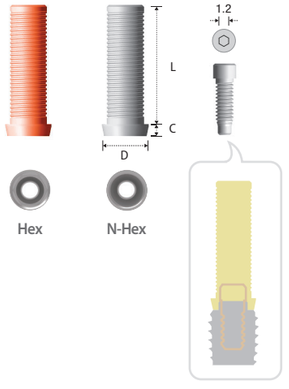
Meta G UCLA Abutment



Type[Hex]	Hex[2.7]	Hex[3.4]	N-Hex	N-Hex
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Cuff \ Length	13	13	13	13
1.2	GHR001N	GHW001N	GNR001N	GNW001N

> Packing unit : 1 Meta G UCLA Abutment + 1 Abutment Screw.
> For Screw-Cement or Screw Retained Prosthesis.
> Modification to angulated abutment, customized abutment and telescopic abutment.
> CCM alloy core for precise connection.
> Cast with non-precious metal or gold alloy.
> Connected with the Abutment Screw.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Fixture level impression.

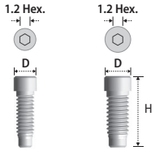
Plastic UCLA Abutment



Type[Hex]	Hex[2.7]	Hex[3.4]	N-Hex	N-Hex
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
Cuff \ Length	11.8	11.8	11.8	11.8
1.2	PHR001	PHW001	PNR001	PNW001

> Packing unit : 1 Plastic UCLA Abutment + 1 Abutment Screw.
> Same purpose of use as Meta G UCLA Abutment but low accuracy of connection.
> PMMA material.
> Connected with the Abutment Screw.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force : Finger light force during wax Pattern fabrication, 30 N.cm after casting.

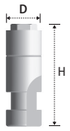
Abutment Screw



Type[Hex]	Hex[2.7]	Hex[3.4]
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Height \ Diameter	Ø2.5	Ø3.0
8	SHR100	SHW100

> Packing unit : 1 Abutment Screw.
> Tightened with the 1.2 Hex Driver and Torque Wrench.

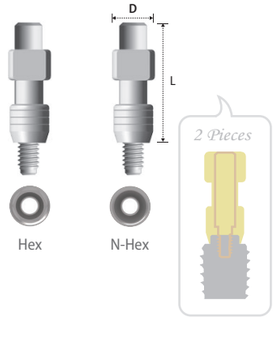
Replica



Type[Hex]	Hex[2.7]	Hex[3.4]
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Height \ *Diameter*	Ø4.1	Ø5.1
12	LHR001	LHW001

> Packing unit : 1 Replica.
> Mimicking of conical interface of fixture.
> Analog of fixture for working cast.

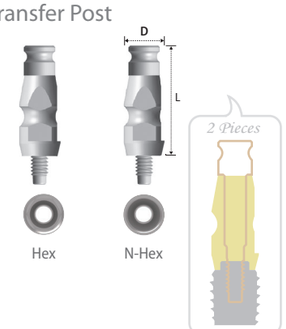
Pick-up Squared Impression Coping



Type[Hex]	Hex[2.7]	Hex[3.4]	N-Hex	N-Hex
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Length \ *Diameter*	Ø5	Ø5.8	Ø5	Ø5.8
17	IHR500	IHW600	INR500	INW600

> Packing unit : 1 Pick-up Squared Impression Coping + 1 Guide Pin.
> Connected with the Guide Pin (Regular : UHR115 / Wide : UHW115).
> For Open Tray Impression.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15 N.cm.

Transfer Post

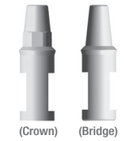


Type[Hex]	Hex[2.7]	Hex[3.4]	N-Hex	N-Hex
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]	Ø5.1 [Ø5.0 / Ø6.0]
Length \ *Diameter*	Ø4.8	Ø5.8	Ø4.8	Ø5.8
13.1	IHR510	IHW610	INR510	INW610

> Packing unit : 1 Transfer Post + 1 Guide Pin.
> Connected with the Guide Pin (Regular : IHR510S, IHR610S / Wide : IHW610S).
> For Closed Tray Impression.
> Tightened with the 1.2 Hex Driver and Torque Wrench.
> Tightening torque force: 12~15 N.cm.

Prosthetic Procedure II

Component Selection Guide for Shoulder Abutment

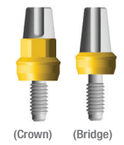


Shoulder Lab Analog

Shoulder Impression Cap

Shoulder Positioning Cylinder

Shoulder Abutment Cap



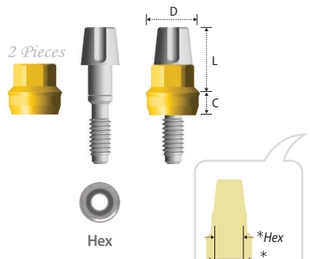
Shoulder Abutment

Fixture

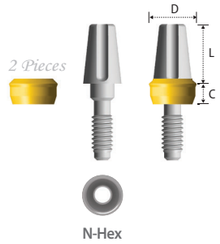
Cover Screw

Healing Abutment

Shoulder Abutment

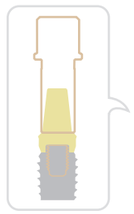


Type[Hex]	Hex[2.7]			Hex[3.4]		
**Platform [Fixture Dia.]*	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]			Ø5.1 [Ø5.0 / Ø6.0]		
Diameter	Ø4.8			Ø5.9		
Length \ *Cuff*	4	5.5	7	4	5.5	7
1	SAC414	SAC415	SAC417	SAC514	SAC515	SAC517
2	SAC424	SAC425	SAC427	SAC524	SAC525	SAC527
3	SAC434	SAC435	SAC437	SAC534	SAC535	SAC537
4	SAC444	SAC445	SAC447	SAC544	SAC545	SAC547



Type[Hex]	N-Hex			N-Hex		
Platform [Fixture Dia.]	Ø4.1 [Ø3.5 / Ø4.0 / Ø4.5]			Ø5.1 [Ø5.0 / Ø6.0]		
Diameter	Ø4.8			Ø5.9		
Length \ *Cuff*	4	5.5	7	4	5.5	7
1	SAB414	SAB415	SAB417	SAB514	SAB515	SAB517
2	SAB424	SAB425	SAB427	SAB524	SAB525	SAB527
3	SAB434	SAB435	SAB437	SAB534	SAB535	SAB537
4	SAB444	SAB445	SAB447	SAB544	SAB545	SAB547

> Packing unit : 1 Shoulder Abutment.
> For Cement Retained Prosthesis.
> Dual anti-rotation grip for prevention of screw loosening.
> Integrated with screw and abutment.
> Tightened with the Shoulder Driver.
> Tightening torque force : 30 N.cm.
> Abutment level impression : Impression cap in platform Ø4.1 fixture and direct impression in platform Ø5.8 fixture.



Shoulder Ø4.5 **KRR**19L

Shoulder Ø5.0 **KRW**19L

Shoulder Abutment Cap

Shoulder Abutment Diameter	Ø4.8	Ø5.9
Height \ *Diameter*	Ø5.4	Ø6.5
6.2	IASR140	IASW140
7.7	IASR155	IASW155
9.2	IASR170	IASW170

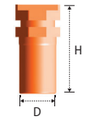
> Packing unit : 1 Shoulder Abutment Cap.
> Protection from cheek and tongue for gingival healing period.
> Alternative usage for sub-structure of temporary prosthesis.

Shoulder Impression Cap

Shoulder Abutment Diameter	Ø4.8	Ø5.9
Height \ *Diameter*	8	9
8	IICR001	IICW001

> Packing unit : 1 Shoulder Impression Cap.
> Connected with the Shoulder Positioning Cylinder.
> Confirm locking with abutment by rotation of clockwise and anti-clockwise direction.

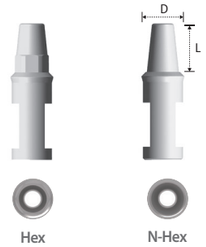
Shoulder Positioning Cylinder



Shoulder Abutment Diameter	Ø4.8	Ø5.9
Height \ *Diameter*	Ø4.4	Ø5.5
10.7	SAPR001	SAPW001

> Packing unit : 1 Shoulder Positioning Cylinder.
> Inner cutting surface for anti-rotation on abutment.
> Insert into the Impression Cap.

Shoulder Lab Analog

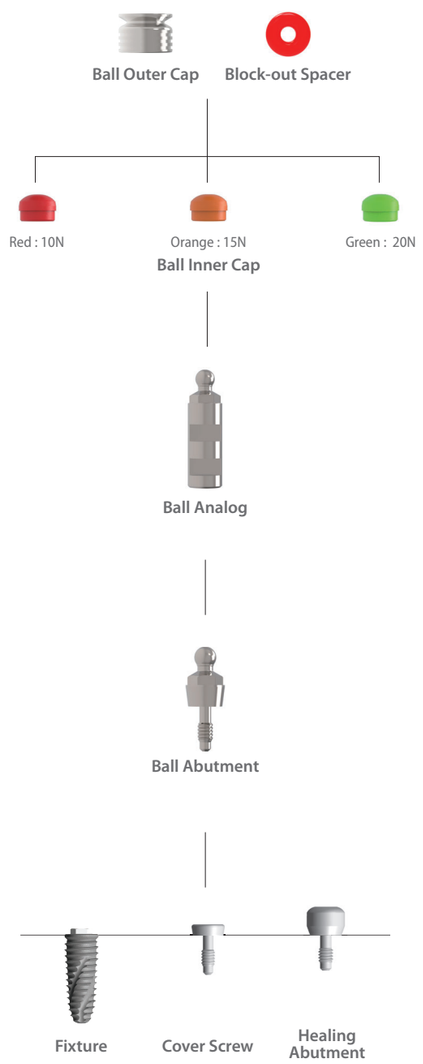


Type[Hex]	Hex[2.7&3.4]		N-Hex	
Shoulder Abutment Diameter	Ø4.8	Ø5.9	Ø4.8	Ø5.9
Length \ *Diameter*	Ø4.8	Ø5.9	Ø4.8	Ø5.9
4	SLCR040	SLCW040	SLBR040	SLBW040
5.5	SLCR055	SLCW055	SLBR055	SLBW055
7	SLCR070	SLCW070	SLBR070	SLBW070

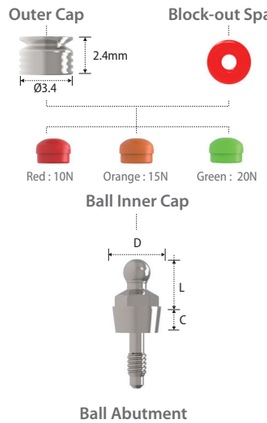
> Packing unit : 1 Shoulder Lab Analog.
> Replacement of abutment shape in working cast.
> Choose by abutment length.

Prosthetic Procedure III

Component Selection Guide for Ball Abutment



Ball Abutment



Diameter / Length / Cuff	Ø5.0	Ø6.0
	4	4
1	EBAT411R	EBAT511R
2	EBAT412R	EBAT512R
3	EBAT413R	EBAT513R
4	EBAT414R	EBAT514R

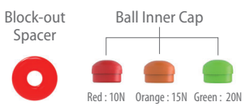
> Packing unit : 1 Ball Abutment + 3 Inner Caps (1 per each color) + 1 Block-out Spacer + 1 Outer Cap.
> For Implant Supported Over-denture Prosthesis.
> Tightened with the Ball Driver and Torque Wrench.
> Tightening torque force : 30 N.cm.
> Direct impression.

Ball Outer Cap

Height / Diameter	Ø3.4
2.4	BATC003C

> Packing unit : 2 Outer Caps.

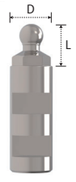
Ball Inner Cap



BATC003I

> Packing unit : 2 Block-out Spacers + 6 Inner Caps (2 per each color).
> Retention force : Red 10N, Orange 15N & Green 20N.

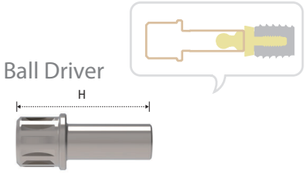
Ball Analog



Length / Diameter	Ø4.0
4	SBAL400

> Packing unit : 4 Lab Analogs.
> Replacement of abutment shape in working cast.

Ball Driver



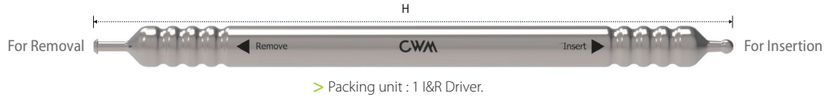
Height / Type	Ratchet
19	KRB19L

*Extra Product

> Packing unit : 1 Ball Driver.
> Used with the Torque Wrench to tighten and untighten the Ball Abutment.

I&R Driver

Height	100
	KBIR01

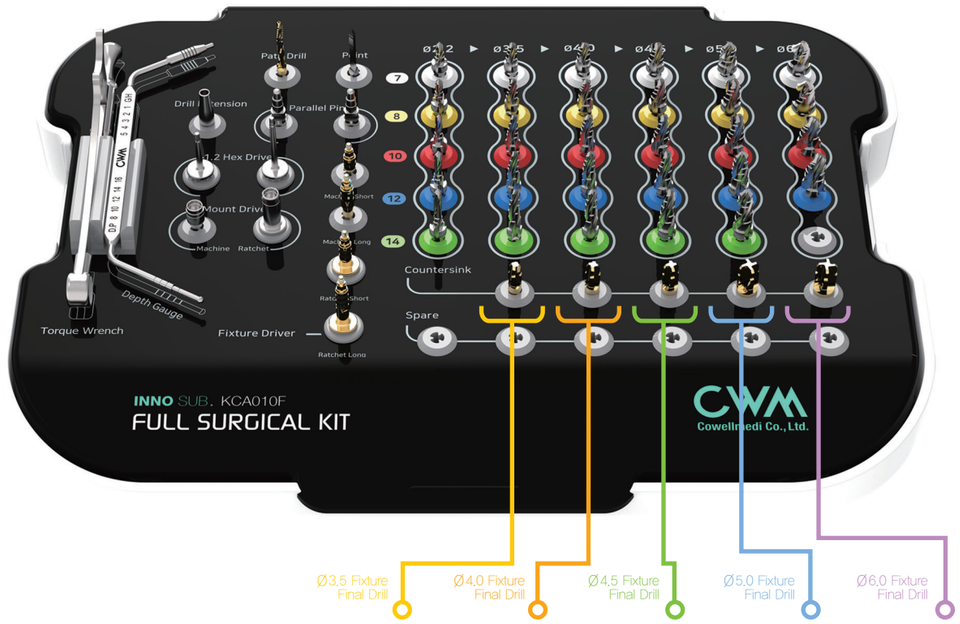


> Packing unit : 1 I&R Driver.
> Used to insert and remove the Inner Caps into and out of the Outer Cap.

INNO SUB. FULL SURGICAL KIT [KCA010F]

SUB. HEXAGON SYSTEM

> For INNO Submerged Implant System (Sub.).
> All components are for Sub. / Int. / Ext. except for the Fixture Drivers and the Depth Gauge used for Sub. exclusively.



Path Drill 2KTD18	Point Drill KPD01S	Ø2.2 X 7 KPSD2207	Ø3.5 X 7 2KTD3707	Ø4.0 X 7 2KTD4007	Ø4.5 X 7 2KTD4507	Ø5.0 X 7 2KTD5007	Ø6.0 X 7 2KTD6007
Parallel Pin KPP002	Parallel Pin KPP002	Ø2.2 X 8 KPSD2208	Ø3.5 X 8 2KTD3708	Ø4.0 X 8 2KTD4008	Ø4.5 X 8 2KTD4508	Ø5.0 X 8 2KTD5008	Ø6.0 X 8 2KTD6008
1.2 Hex Driver L KHD1221	1.2 Hex Driver XL KHD1227	Ø2.2 X 10 KPSD2210	Ø3.5 X 10 2KTD3710	Ø4.0 X 10 2KTD4010	Ø4.5 X 10 2KTD4510	Ø5.0 X 10 2KTD5010	Ø6.0 X 10 2KTD6010
M. Mount Driver. L KMMD06L	R. Mount Driver. L KRMD19L	Ø2.2 X 12 KPSD2212	Ø3.5 X 12 2KTD3712	Ø4.0 X 12 2KTD4012	Ø4.5 X 12 2KTD4512	Ø5.0 X 12 2KTD5012	Ø6.0 X 12 2KTD6012
Sub. Fixture Driver							
M. Fixture Driver. S 2KMMS01S	R. Fixture Driver. L 2KHDS01L	Ø2.2 X 14 KPSD2214	Ø3.5 X 14 2KTD3714	Ø4.0 X 14 2KTD4014	Ø4.5 X 14 2KTD4514	Ø5.0 X 14 2KTD5014	
M. Fixture Driver. L 2KMMS01L	R. Fixture Driver. XL 2KHDS01X	Drill Extension KDE002	Ø3.5 Countersink 4KCS35	Ø4.0 Countersink 4KCS40	Ø4.5 Countersink 4KCS45	Ø5.0 Countersink 4KCS50	Ø6.0 Countersink 4KCS60

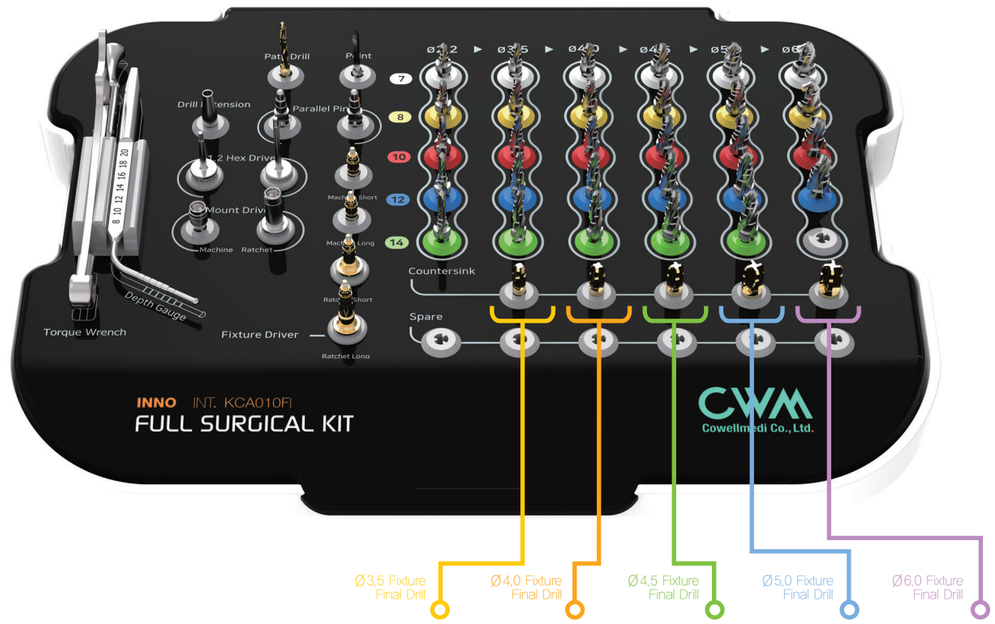
Torque Wrench KTW001	Depth Gauge KDG004

* A common tool for Sub. / Int. / Ext.
An exclusive tool by type

INNO INT. FULL SURGICAL KIT [KCA010FI]

INT. OCTAGON SYSTEM

> For the selection and use guide of the components for the Sub. Int. & Ext. Full Surgical Kit, refer to pages 107 to 113.
> For the INNO Internal Implant System (Int.).
> All components are for Sub. / Int. / Ext. except for the Fixture Drivers used for Int. exclusively.



Path Drill 2KTD18	Point Drill KPD01S	Ø2.2 X 7 KPSD2207	Ø3.5 X 7 2KTD3707	Ø4.0 X 7 2KTD4007	Ø4.5 X 7 2KTD4507	Ø5.0 X 7 2KTD5007	Ø6.0 X 7 2KTD6007
Parallel Pin KPP002	Parallel Pin KPP002	Ø2.2 X 8 KPSD2208	Ø3.5 X 8 2KTD3708	Ø4.0 X 8 2KTD4008	Ø4.5 X 8 2KTD4508	Ø5.0 X 8 2KTD5008	Ø6.0 X 8 2KTD6008
1.2 Hex Driver L KHD1221	1.2 Hex Driver XL KHD1227	Ø2.2 X 10 KPSD2210	Ø3.5 X 10 2KTD3710	Ø4.0 X 10 2KTD4010	Ø4.5 X 10 2KTD4510	Ø5.0 X 10 2KTD5010	Ø6.0 X 10 2KTD6010
M. Mount Driver. L KMMD06L	R. Mount Driver. L KRMD19L	Ø2.2 X 12 KPSD2212	Ø3.5 X 12 2KTD3712	Ø4.0 X 12 2KTD4012	Ø4.5 X 12 2KTD4512	Ø5.0 X 12 2KTD5012	Ø6.0 X 12 2KTD6012
Int. Fixture Driver							
M. Fixture Driver. S KMMI01S	R. Fixture Driver. S KHDI01S	Ø2.2 X 14 KPSD2214	Ø3.5 X 14 2KTD3714	Ø4.0 X 14 2KTD4014	Ø4.5 X 14 2KTD4514	Ø5.0 X 14 2KTD5014	
M. Fixture Driver. L KMMI01L	R. Fixture Driver. L KHDI01L	Drill Extension KDE002	Ø3.5 Countersink 4KCS35	Ø4.0 Countersink 4KCS40	Ø4.5 Countersink 4KCS45	Ø5.0 Countersink 4KCS50	Ø6.0 Countersink 4KCS60

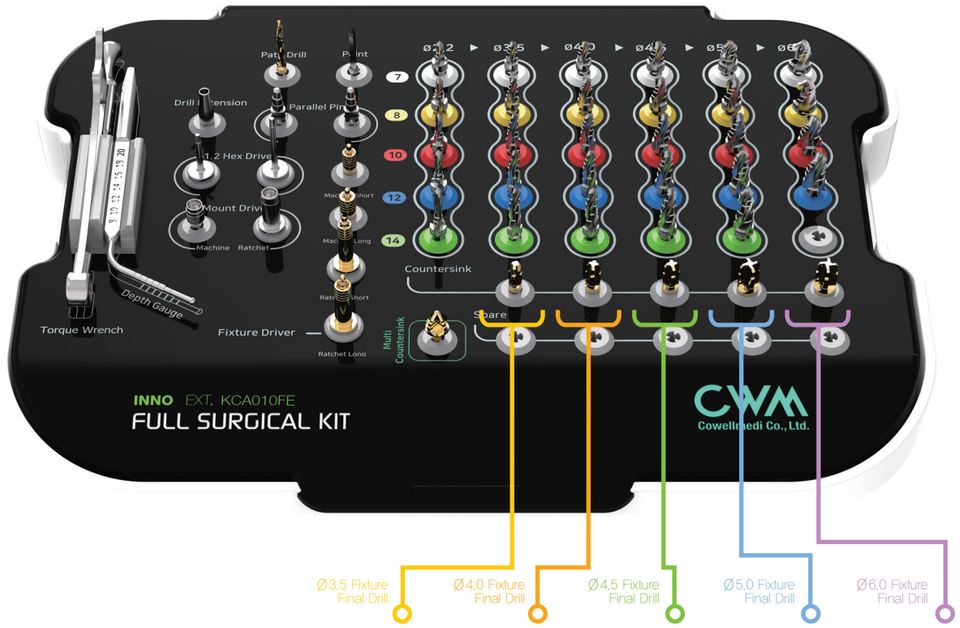
Torque Wrench KTW001	Depth Gauge KDG001

* A common tool for Sub. / Int. / Ext.
An exclusive tool by type

INNO EXT. FULL SURGICAL KIT [KCA010FE]

EXT. HEXAGON SYSTEM

> **For the selection and use guide of the components for the Sub. Int. & Ext. Full Surgical Kit, refer to pages 107 to 113.**
> For the INNO External Implant System (Ext.).
> All components are for Sub. / Int. / Ext. except for the Fixture Drivers and the Multi Countersink used for Ext. exclusively.



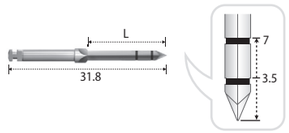
Path Drill 2KTD18	Point Drill KPD01S	Ø2.2 X 7 KPSD2207	Ø3.5 X 7 2KTD3707	Ø4.0 X 7 2KTD4007	Ø4.5 X 7 2KTD4507	Ø5.0 X 7 2KTD5007	Ø6.0 X 7 2KTD6007
Parallel Pin KPP002	Parallel Pin KPP002	Ø2.2 X 8 KPSD2208	Ø3.5 X 8 2KTD3708	Ø4.0 X 8 2KTD4008	Ø4.5 X 8 2KTD4508	Ø5.0 X 8 2KTD5008	Ø6.0 X 8 2KTD6008
1.2 Hex Driver L KHD1221	1.2 Hex Driver XL KHD1227	Ø2.2 X 10 KPSD2210	Ø3.5 X 10 2KTD3710	Ø4.0 X 10 2KTD4010	Ø4.5 X 10 2KTD4510	Ø5.0 X 10 2KTD5010	Ø6.0 X 10 2KTD6010
M. Mount Driver. L KMMD06L	R. Mount Driver. L KRMD19L	Ø2.2 X 12 KPSD2212	Ø3.5 X 12 2KTD3712	Ø4.0 X 12 2KTD4012	Ø4.5 X 12 2KTD4512	Ø5.0 X 12 2KTD5012	Ø6.0 X 12 2KTD6012
Ext. Fixture Driver							
M. Fixture Driver. S KMME01S	R. Fixture Driver. L KHDE01L	Ø2.2 X 14 KPSD2214	Ø3.5 X 14 2KTD3714	Ø4.0 X 14 2KTD4014	Ø4.5 X 14 2KTD4514	Ø5.0 X 14 2KTD5014	
M. Fixture Driver. S KMME02S	R. Fixture Driver. L KHDE02L	Drill Extension KDE002	Ø3.5 Countersink 4KCS35	Ø4.0 Countersink 4KCS40	Ø4.5 Countersink 4KCS45	Ø5.0 Countersink 4KCS50	Ø6.0 Countersink 4KCS60
Multi Countersink 4KCS01	Torque Wrench KTW001	Depth Gauge KDG001					

* A common tool for Sub. / Int. / Ext. — An exclusive tool by type

01 Drill / Surgical Tool

SUB. HEXAGON SYSTEM · INT. OCTAGON SYSTEM · EXT. HEXAGON SYSTEM

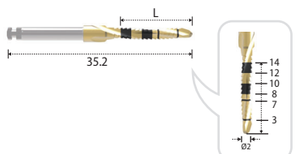
Point Drill



> Primarily used for marking the implant recipient site and to determine spacing.
> The point drill has a unique pointed tip, making this an excellent drill for starting the osteotomy through the hard cortical plate.

Length	15
	KPD01S

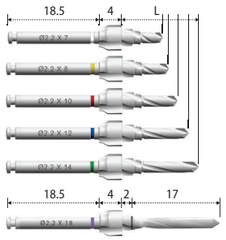
Path Drill



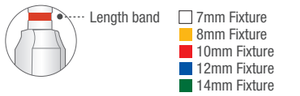
> Used for the case that path modification is required.
> Excellent ablation force that does not slip in slanted bone.
> Easy to drill even in extraction socket without slipping.

Length	15
	2KTD18

Initial Drill

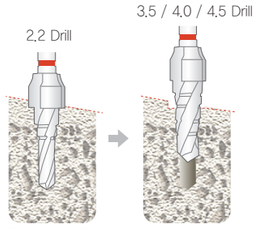


> Initial stepped Drill - Ø2.2 / Ø2.8 / Ø3.3 mm stepped osteotomy at Ø1.8 Drill site.

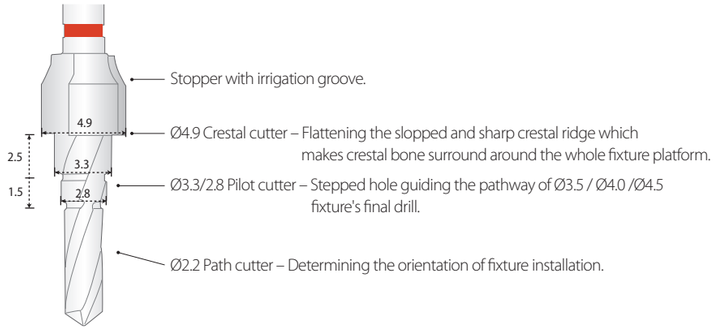


Length	8	9	11	13	15	17&19
	KPSD2207	KPSD2208	KPSD2210	KPSD2212	KPSD2214	*KPSD2218

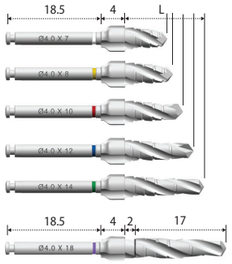
*Extra product



The Initial Drill guides the pathway of the Final Drills. The Final Drill is inserted a half into the Initial Drill's hole without drilling.



Final Drill



> Ø3.5 / 4.0 / 4.5 / 5.0 / 6.0 fixture's Final Drill.
> 7 / 8 / 10 / 12 / 14 / 16 / 18mm fixture's Final Drill.

Fixture Dia. / *Length*	Ø3.5	Ø4.0	Ø4.5	Ø5.0	Ø6.0
8	2KTD3707	2KTD4007	2KTD4507	2KTD5007	2KTD6007
9	2KTD3708	2KTD4008	2KTD4508	2KTD5008	2KTD6008
11	2KTD3710	2KTD4010	2KTD4510	2KTD5010	2KTD6010
13	2KTD3712	2KTD4012	2KTD4512	2KTD5012	2KTD6012
15	2KTD3714	2KTD4014	2KTD4514	2KTD5014	
17&19	*2KTD3718	*2KTD4018	*2KTD4518		

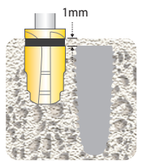
*Extra product

Countersink

> Bone quality 1 : high compressive placement of fixtures induces the failure of osseointegration and bone loss.
> Countersink decreases torque force (Ø4.0 Fixture : 80 N.cm -> 45 N.cm / Ø5.0 Fixture : 150 N.cm -> 45 N.cm).
> Preventing compressive necrosis of dense cortical bone.

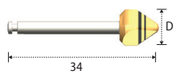
Fixture Dia.	Ø3.5	Ø4.0	Ø4.5	Ø5.0	Ø6.0
Diameter	Ø3.7	Ø4.2	Ø4.6	Ø5.1	Ø6.0
	4KCS35	4KCS40	4KCS45	4KCS50	4KCS60

Lower margin of depth marking line indicating fixture platform level.



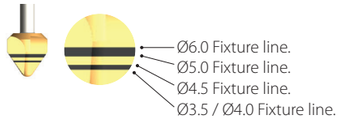
Upper margin of depth marking line indicating 1 mm over fixture platform level.

Multi Countersink



Diameter	Ø6.5
	4KCS01

> Only for Ext.



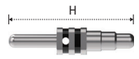
Tap Drill

> Used in preparation of osteotomy in dense bone only.

Fixture Dia.	Ø3.5	Ø4.0	Ø4.5	Ø5.0	Ø6.0
	*3KMTD35A	*3KMTD40A	*3KMTD45A	*3KMTD50A	*3KMTD60A

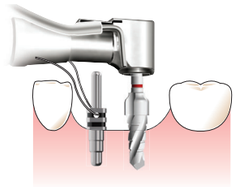
*Extra product

Parallel Pin



> Insert the Parallel Pin after Ø2.2 or 3.5 Drill to check the osteotomy path.
> In order to prevent losing Parallel Pin in patient's mouth, be sure to tie floss through the hole in the Parallel Pin.

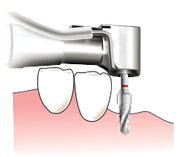
Height	21
	KPP002

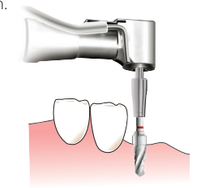


Drill Extension

> Used for lengthening the Drill when using a Hand-piece.
> Do not go over recommended torque when using the Drill Extension.

Height	27.5
	KDE002





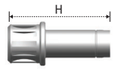
Triangle mark indicating the cutting surface of the drill shaft.

Mount Driver

> Used to install Pre-Mount type fixtures.

Height \ Type	Machine
20.5(Short)	* KMMD06S
26.3(Long)	KMMD06L
32.3(X-Long)	* KMMD12X

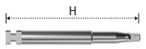
*Extra product



Height \ Type	Ratchet
12(Short)	* KRMD12S
19(Long)	KRMD19L

*Extra product

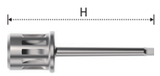
Hex Driver



> Used to insert or remove the Cover Screw, Healing Abutment and Abutment Screw etc.
> The Machine Drivers are used with contra angle, while the Ratchet Drivers are used with the Torque Wrench.

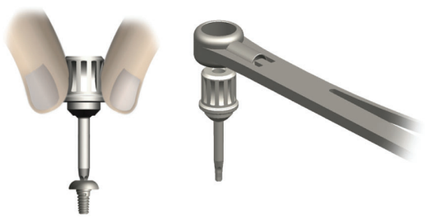
Type	Machine	
Height \ Hex	Hex 0.9	Hex 1.2
22(Short)	* KMD09S	* KMD12S
28(Long)	* KMD09L	* KMD12L

*Extra product



Type	Ratchet	
Height \ Hex	Hex 0.9	Hex 1.2
12(X-Short)	-	* KHD1212
17(Short)	* KHD0915	* KHD1215
23(Long)	* KHD0921	KHD1221
29(X-Long)	* KHD0927	KHD1227

*Extra product



Fixture Driver

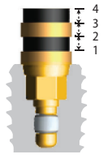
> Used to install No-Mount type fixtures.

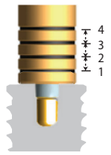
Length \ System / Type	Machine			
	Sub.	Int.	Ext.(Hex 2.7)	Ext.(Hex 3.4)
28.1 / 26.3 / 26.4 (Short)	2KMMS01S	KMMI01S	KMME01S	KMME02S
33.3 / 30.5 / 31.4 (Long)	2KMMS01L	KMMI01L	*KMME01L	
40.3 / 35.5 / 36.4 (X-Long)	*2KMMS01X	* KMMI01X	*KMME01X	

*Extra product

Length \ System / Type	Ratchet			
	Sub.	Int.	Ext.(Hex 2.7)	Ext.(Hex 3.4)
20.7 / 19.5 / 19.9 (Short)	* 2KHDS01S	KHDI01S	* KHDE01S	
25.7 / 24.5 / 24.9 (Long)	2KHDS01L	KHDI01L	KHDE01L	KHDE02L
30.7 / 29.5 / 29.9 (X-Long)	2KHDS01X	* KHDI01X	* KHDE01X	

*Extra product





Torque Wrench

> Torque control in implant placement and abutment connection.
> Torque force 10, 25, 30 & 35 N.cm are able to be controlled by pulling the elastic bar.
> Maximal torque force 120 N.cm with pulling the rigid main bar.

Code	KTW001

Depth Gauge

Code	KDG001

> One side of the Depth Gauge measures the drilling depth and the other side measures the gingival height from the top of the implant.

Code	KDG004

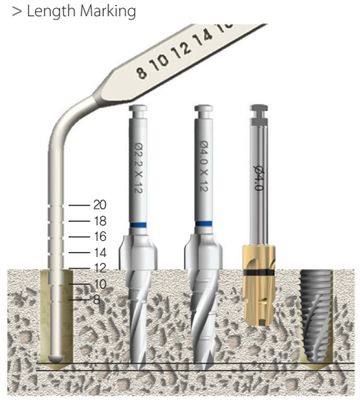
※ Exclusive for Sub.

02 *Drilling Sequence*

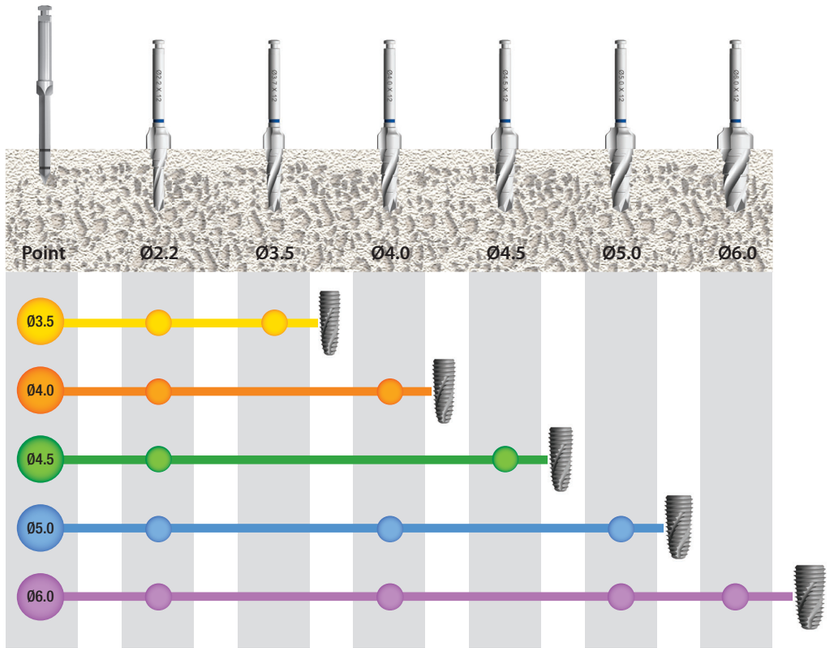
E.g. 12mm Fixture

> Minimal drill frequency with the Point Drill, Initial Drill and Final Drills (Ø3.5, Ø4.0 and Ø4.5 Fixtures).

> Length Marking



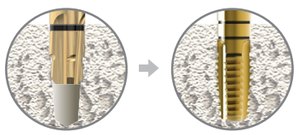
Actual length of Drill : Fixture + 1mm



> Ø5.0 fixture : a series of the Point Drill, Initial Drill, Ø4.0 Final Drill and Ø5.0 Final Drill.

> Ø6.0 fixture : a series of the Point Drill, Initial Drill, Ø4.0 Final Drill, Ø5.0 Final Drill and Ø6.0 Final Drill.

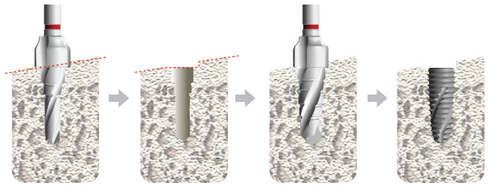
※ The Countersink and Tap Drill are used in hard bone quality.



*Extra product

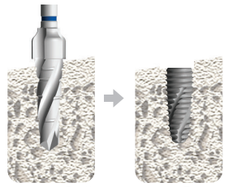
※ Sloped edentulous ridge adjacent of tooth

> Crestal cutter of the Initial Drill and Final Drill.
> Longer drills than fixture's length.



Initial Drill Final Drill

Crestal flatting



12mm Drill 10mm Fixture

Longer Final Drill

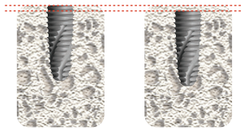
※ Wide extraction socket

> Absence of the cortical bone & spongy bone.
> Narrower diameter than the fixture's diameter.

Initial Drill Ø4.0 Drill Ø4.5 Fixture

※ Torque force control

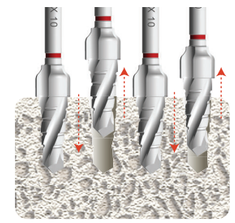
> The 0.5mm deeper placement increases the initial torque force of fixture.



0.5mm deeper level.

Fixture Placement Level						
Level	Crestal Level			0.5mm Deeper Level		
Density	D1	D2	D3	D1	D2	D3
Torque	34.1	29	15.5	44.4	38.4	19.1

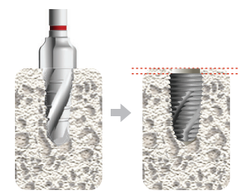
> The pumping action of drill removes the bone chip in the hole.
> In dense bone, the debriment action decreases the high torque force.



Pumping action of final drill for debriment			
Density	D1	D2	D3
Non- Debriment	34.1	29	19.6
Debriment	30	25	15.5

※ In weak bone quality 4 of maxillary tuberosity

> No pumping action.
> 0.5mm deeper placement of fixture.
> Wider fixture than Final Drill.



0.5mm deeper level.

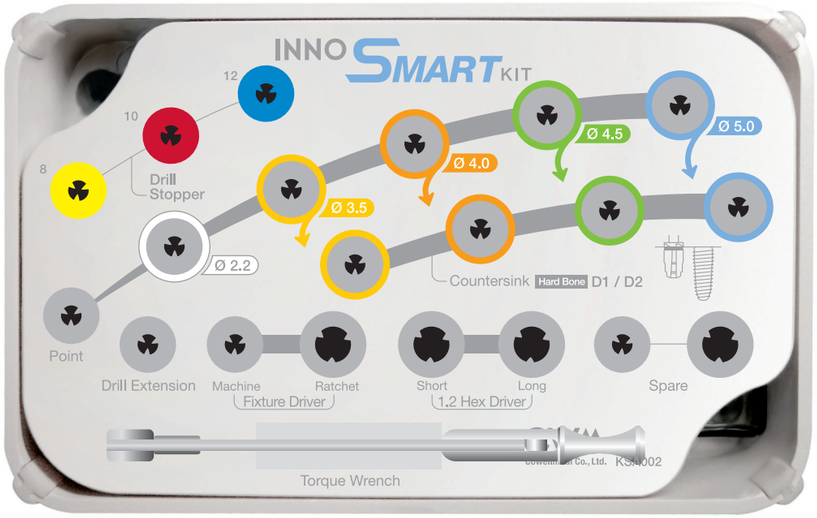
Ø4.5 Drill Ø5.0 Fixture

Level	Crestal level		0.5mm Deeper Level	
Debriment	with	without	with	without
Ø4.5 Fixture	4.4	10.2	-	12.9
Ø5.0 Fixture	11.6	19.9	14.1	24.5

INNO SUB. SMART SURGICAL KIT [KSA002]

SUB. HEXAGON SYSTEM

> For the INNO Submerged Implant System (Sub. Ø3.5, 4.0, 4.5 & 5.0).
> A simpler kit for implant surgery, applied to fixtures with 8~14mm in length using the Drills and Stoppers.



Drill

Point Drill	Initial Drill	Ø3.5 Final Drill	Ø4.0 Final Drill	Ø4.5 Final Drill	Ø5.0 Final Drill
KPD01S	2KTD22	2KTD35	2KTD40	2KTD45	2KTD50

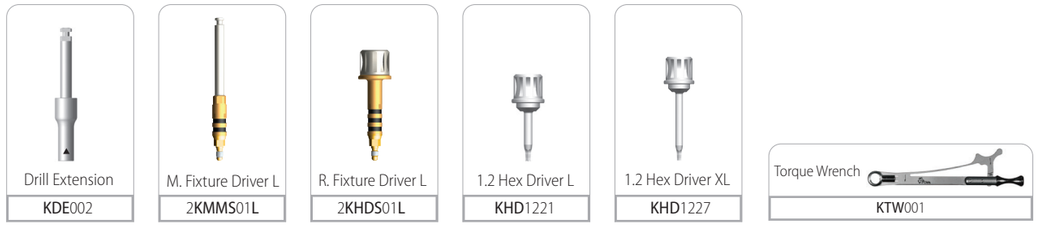
Stopper

8 Drill Stopper	10 Drill Stopper	12 Drill Stopper
KSDS08S	KSDS10S	KSDS12S

Countersink

Ø3.5 Countersink	Ø4.0 Countersink	Ø4.5 Countersink	Ø5.0 Countersink
4KCS35	4KCS40	4KCS45	4KCS50

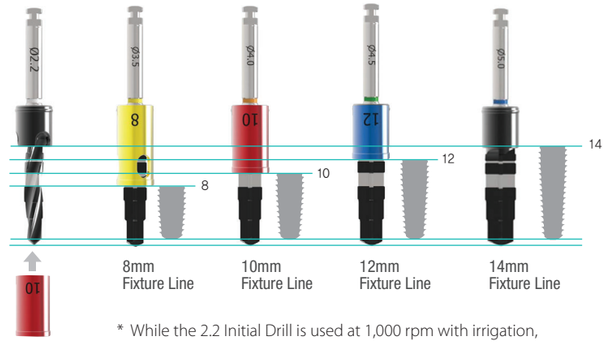
Extension & Driver

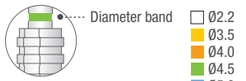


Drill Extension	M. Fixture Driver L	R. Fixture Driver L	1.2 Hex Driver L	1.2 Hex Driver XL	Torque Wrench
KDE002	2KMMS01L	2KHDS01L	KHD1221	KHD1227	KTW001

Length Marking & Stopper

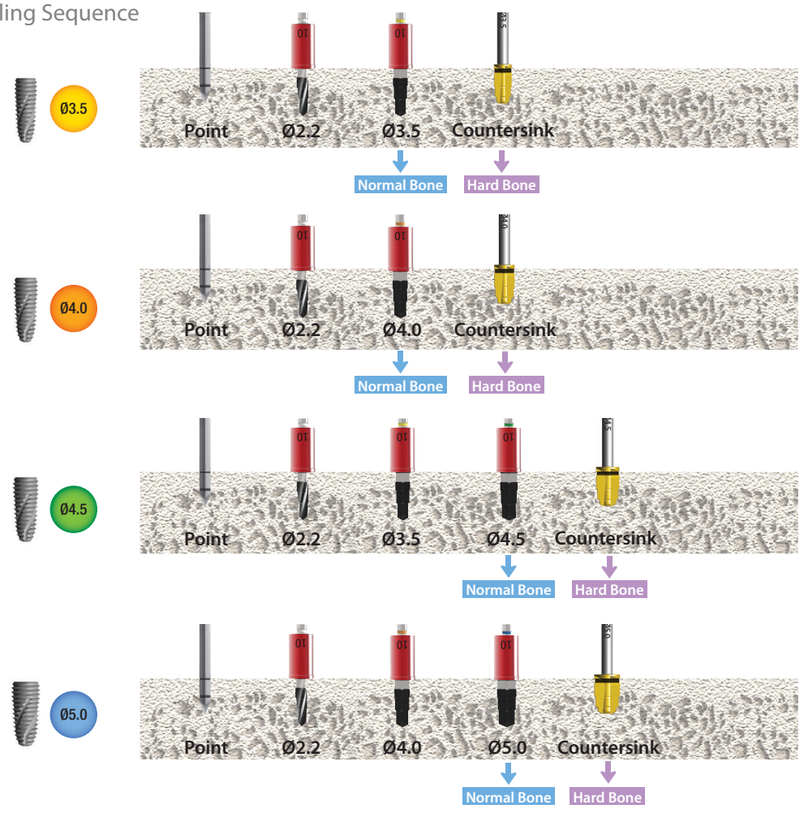
Actual Length of Drill : Fixture length + 1mm





* While the 2.2 Initial Drill is used at 1,000 rpm with irrigation,
the Final Drills from the 3.5 to 5.0 should be used at 50 rpm without irrigation.

Drilling Sequence



INNO SUB-SHORT SURGICAL KIT [KSI001]

SUB. HEXAGON SYSTEM

> For the INNO Submerged Short Implant System (Sub.).

Drill

Point Drill
KPD01S

Ø2.0 Step Drill
KSSD2004

Ø4.0 Step Drill
KSSD4004

Ø4.5 Step Drill
KSSD4504

Ø5.0 Step Drill
KSSD5004

Ø5.5 Step Drill
KSSD5504

Ø6.0 Step Drill
KSSD6004

Stopper

4mm Drill Stopper
SIDS04

5.5mm Drill Stopper
SIDS05

7mm Drill Stopper
SIDS07

Countersink

Ø4.0 Countersink
4KCS40S

Ø4.5 Countersink
4KCS45S

Ø5.0 Countersink
4KCS50S

Ø5.5 Countersink
4KCS55S

Ø6.0 Countersink
4KCS60S

Extension & Driver

M. Mount Driver. L
KMMD06L

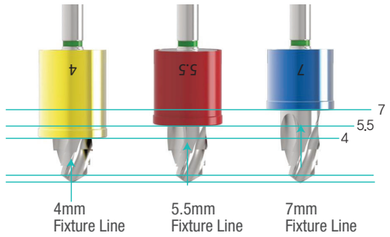
R. Mount Driver. L
KRMD19L

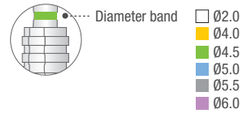
1.2 Hex Driver L
KHD1221

Torque Wrench
KTW001

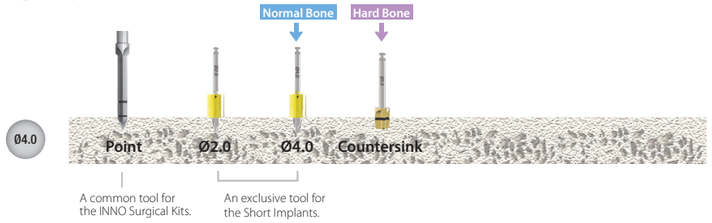
Length Marking & Stopper

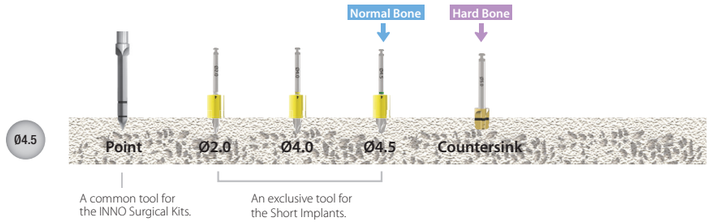
Actual length of drill : Fixture + 0.5mm.

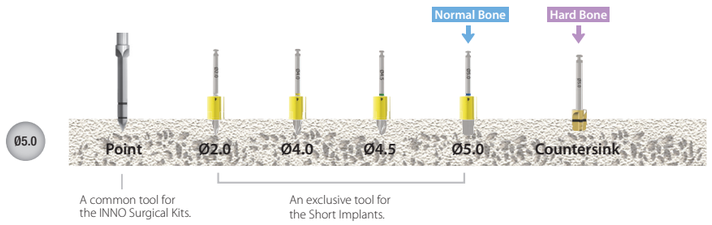


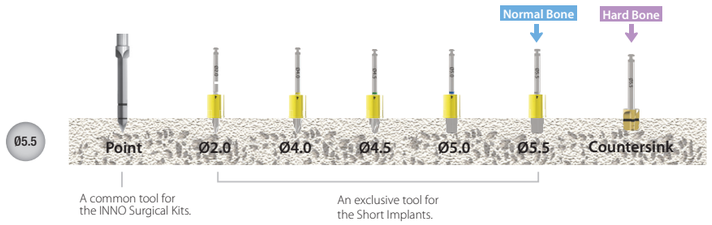


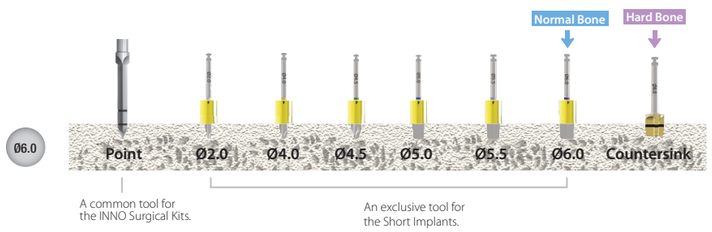
Drilling Sequence











INNO SUB-NARROW SURGICAL KIT [KNA001]

SUB-N. HEXAGON SYSTEM

> For the INNO Submerged Narrow Implant System (Sub-N).

Drill

Point Drill
KNPD20

Ø2.2 Twist Drill
KNSD22L

Ø2.6 Twist Drill
KNSD26L

Ø3.1 Twist Drill
KNSD31L

Ø3.3 Twist Drill
KNSD33L

Stopper

8 Drill Stopper
KNDS08

10 Drill Stopper
KNDS10

12 Drill Stopper
KNDS12

Countersink

Ø3.1 Countersink
4KCS31N

Ø3.3 Countersink
4KCS33N

Extension & Driver

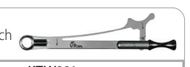
Fixture Driver(Ratchet)
KHDS01XN

Fixture Driver(Machine)
KMMS01XN

Parallel Pin
KPP003

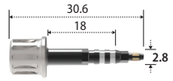
1.2 Hex Driver L
KHD1221

KDG001



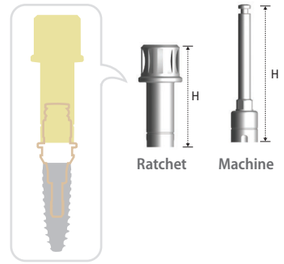
KTW001

Fixture Driver



Type	Ratchet	Machine
	KHDS01XN	KMMS01XN

Mount Driver

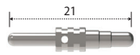


Type	Ratchet	Machine
	KRMD19L	*KMMD12X

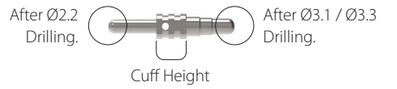
> Used to install fixture.

*Extra product

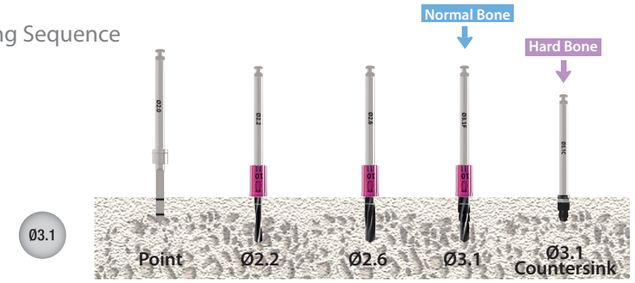
Parallel Pin



Code	KPP003



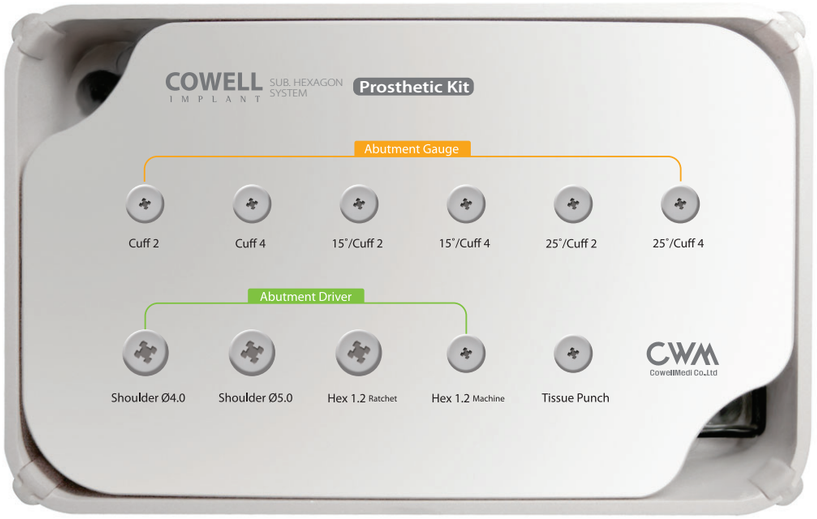
Drilling Sequence



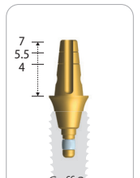
COWELL® PROSTHETIC KIT [KPA003]

SUB. HEXAGON SYSTEM

> For the INNO Submerged Implant System.
> Try-in Kit for determining abutment specifications.



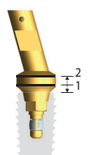
Abutment Gauge > Measuring of the diameter, cuff length and angulation of abutment.



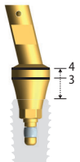
Cuff 2
2SAG002

Cuff 4
2SAG004

Straight Type



15° / Cuff 2
2SAG152



15° / Cuff 4
2SAG154

25° / Cuff 2
2SAG252

25° / Cuff 4
2SAG254

Angulated Type

Abutment Driver > Used in the Shoulder, Solid, Absolute, and Straight Abutment placement.

Shoulder Ø4.0
KRR19L

Shoulder Ø5.0
KRW19L

Hex 1.2 Ratchet
KHD1221

Hex 1.2 Machine
KMD12L

Tissue Punch
KTP001

2 Pieces

Trephine soft tissue over the Cover Screw of fixture.

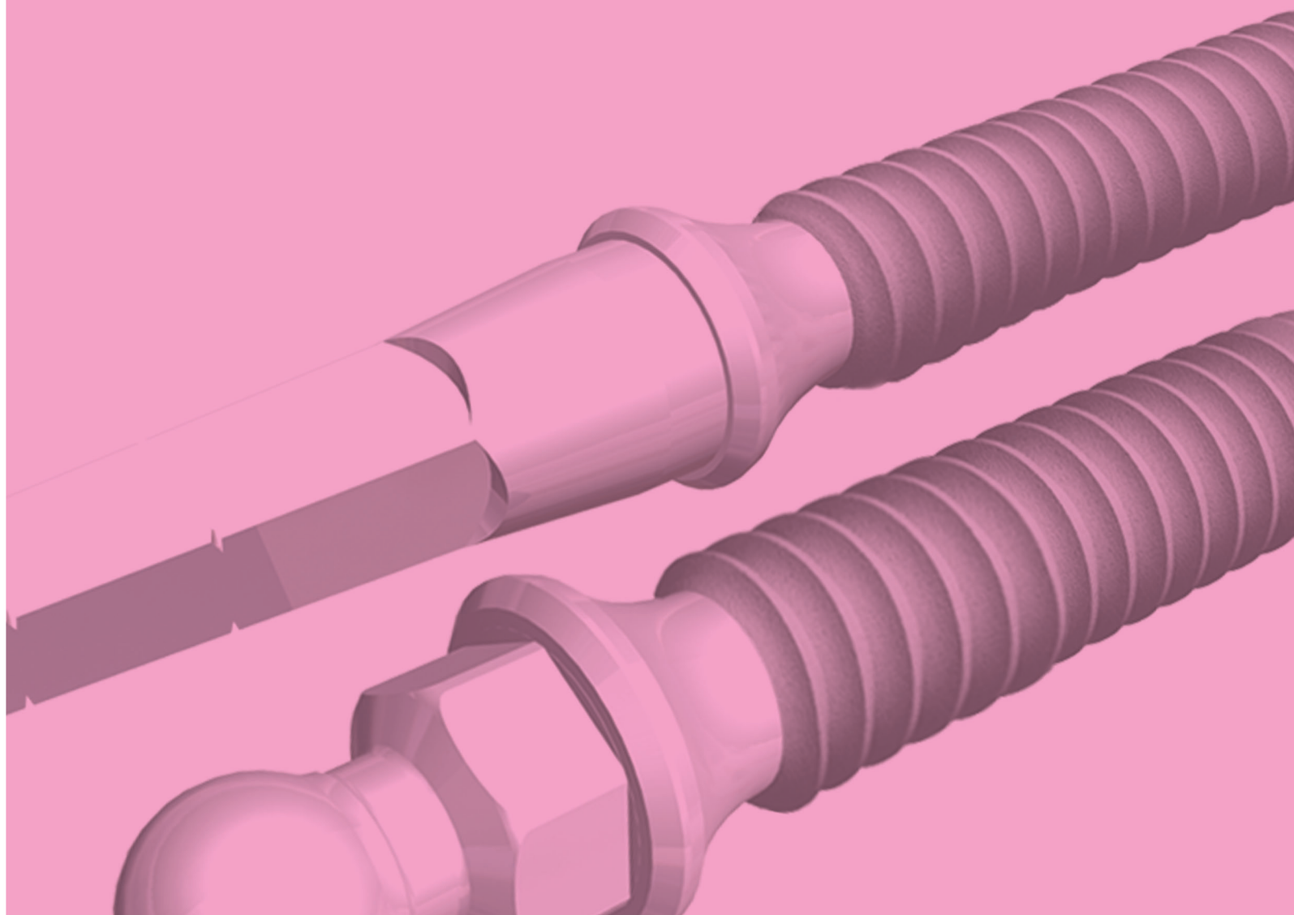
Mini Plus® Implant system

Mini Plus® Implant

Cement Type

Ball Type

Surgical kit

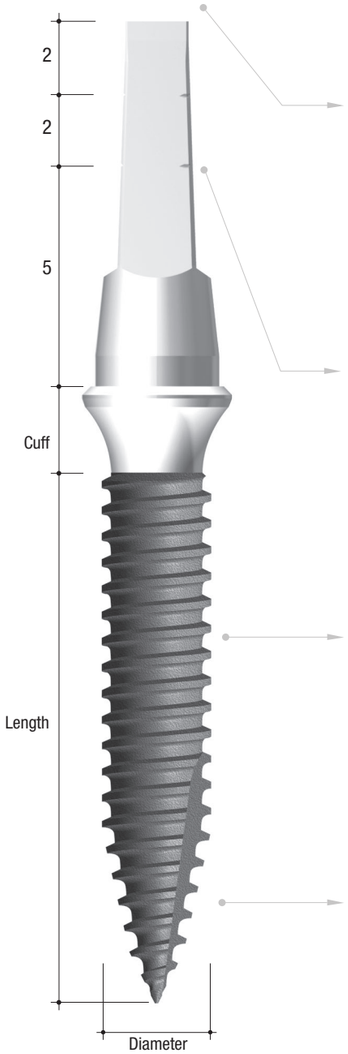


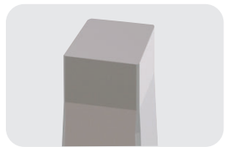
DESIGN OF MINI PLUS® FIXTURE (1P-C.)

Cement Type

> For mandible anterior spaces and edentulous arch.

> For semi-permanent or temporary solution.





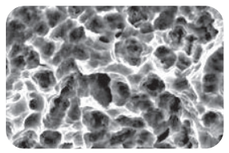
Top Anti-Rotation Square

> Promotes firm attachment to prosthetics.

> Direct impression is recommended when modified/altered.

Cutting Groove

> Two cutting grooves at 5mm, 7mm facilitates alteration of height.

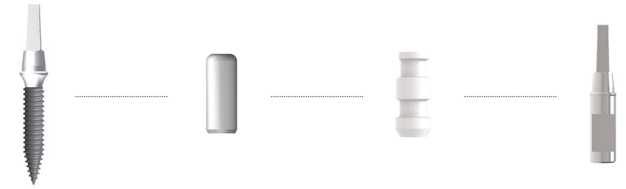


Surface Treatment : SLA-SH®

> Uniform micro-surface geometry, increased BIC and improved surface wetness.

Cutting edge allows Self-Tapping function

System Flow



Fixture — Protection Cap — Impression Coping — Lab Analog

Implant

Diameter / Cuff / Length	Ø2.5	
	2.0mm	4.0mm
10mm	AMC2210S	AMC2410S
12mm	AMC2212S	AMC2412S
14mm	AMC2214S	AMC2414S

> Packing unit : 1 Fixture.

> Abutment level impression.

Diameter / Cuff / Length	Ø3.0	
	2.0mm	4.0mm
10mm	AMC3210S	AMC3410S
12mm	AMC3212S	AMC3412S
14mm	AMC3214S	AMC3414S

> Packing unit : 1 Fixture.

> Abutment level impression.

Impression Coping / Lab Analog

Impression Coping

AMCI001

Lab Analog

AMCL001

Impression Coping

> Packing unit : 1 Impression Coping.

> Fastened on the shoulder of the cement post and connected with the Lab Analog for working cast.

> Direct impression is recommended when modified/altered.

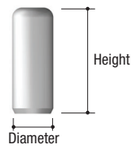
Lab Analog

> Packing unit : 1 Lab Analog.

> The same adjustment must be made for the Lab Analog when the abutment portion of the fixture is modified/altered.

> Replacement of the cement post shape in working mode.

Protection Cap



> Provides temporary protection of mucogingiva and tongue after implantation.

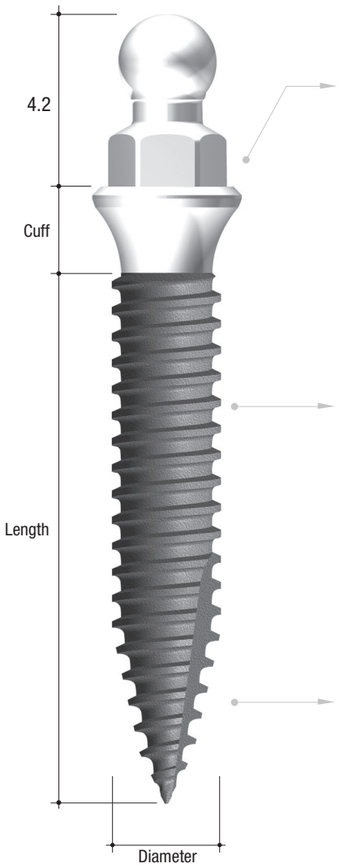
Diameter / Height	Ø4.0
7mm	AMCC001
9mm	AMCC002
11mm	AMCC003

> Packing unit : 1 Protection Cap.

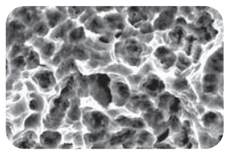
DESIGN OF MINI PLUS® FIXTURE (1P-B.)

Ball Type

> For semi-permanent or temporary solution for overdenture prosthesis.



Easy delivery using the ball type drivers

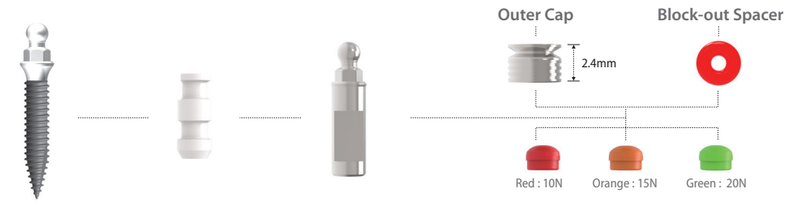


Surface Treatment : SLA-SH®

> Uniform micro-surface geometry, increased BIC and improved surface wetness.

Cutting edge allows Self-Tapping function

System Flow



Implant

Diameter / Cuff Length	Ø2.5	
	2.0mm	4.0mm
10mm	AMB2210S	AMB2410S
12mm	AMB2212S	AMB2412S
14mm	AMB2214S	AMB2414S

> Packing unit : 1 Fixture.

Diameter / Cuff Length	Ø3.0	
	2.0mm	4.0mm
10mm	AMB3210S	AMB3410S
12mm	AMB3212S	AMB3412S
14mm	AMB3214S	AMB3414S

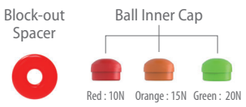
> Packing unit : 1 Fixture.

Ball Outer Cap

Diameter / Height	Ø3.4
2.4	BATC003C

> Packing unit : 2 Outer Caps.

Ball Inner Cap



BATC003I

> Packing unit : 2 Block-out Spacers + 6 Inner Caps (2 per each color).
> Retention force : Red 10N, Orange 15N & Green 20N.

Impression Coping / Lab Analog

Impression Coping
AMBI001

Lab Analog
AMBL001

Impression Coping

> Packing unit : 1 Impression Coping.
> Used for impression taking of the ball post.

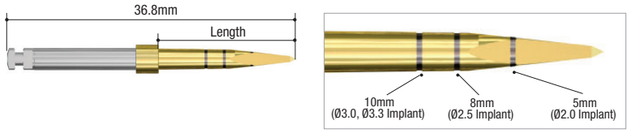
Lab Analog

> Packing unit : 1 Lab Analog.
> Replacement of the ball post shape in working model.

SURGICAL KIT [KMA003]

Point Drill

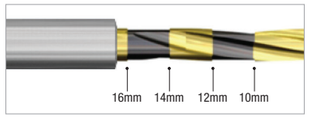
KPD03L



Ø1.3 Twist Drill

KTWD13S

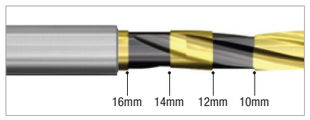
Ø1.3 ⇢ Ø2.0 Implant Final Drill



Ø1.8 Twist Drill

KTWD18S

Ø1.8 ⇢ Ø2.5 Implant Final Drill



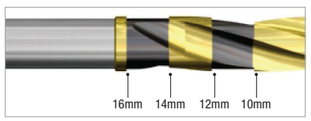
Ø2.3 / Ø2.6 Twist Drill

KTWD23S

Ø2.3 ⇢ Ø3.0 Implant Final Drill

KTWD26S

Ø2.6 ⇢ Ø3.3 Implant Final Drill



Driver

Cement Type

Machine KMDC31L

Ratchet KRDC19L

Ball Type

Machine KMDB27L

Ratchet KRDB19L

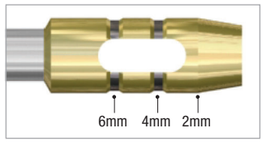
Tissue Punch *Extra product

KTP16  Ø2.35(Ø2.0 Implant)

KTP21  Ø2.85(Ø2.5 Implant)

KTP26  Ø3.35(Ø3.0 Implant)

KTP28  Ø3.55(Ø3.3 Implant)

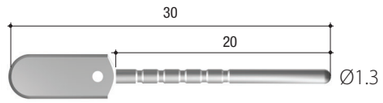


> Easy removal of soft tissue for flapless surgery.

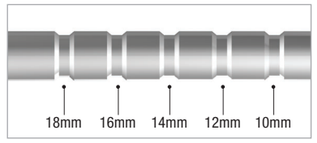
> 0.3mm wider than implant diameter allows more predictable results.

Multi Gauge *Extra product

> Allows precise measurement of drilling depth and path.

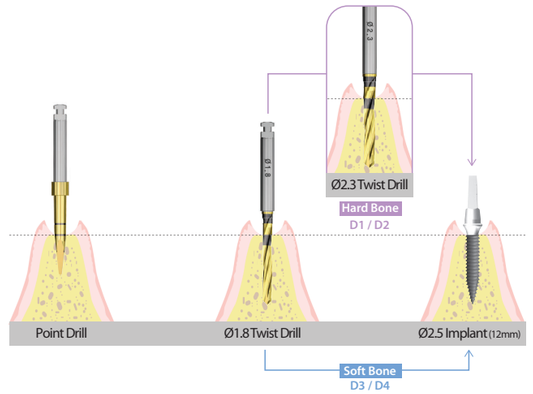
KDGP13 

KDGP19 

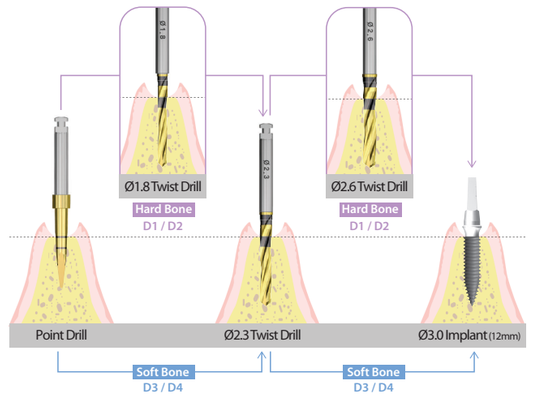


Drilling Sequence

Ø2.5



Ø3.0



※ In case of D4 bone quality, make proper adjustment in drilling. Due to narrow diameter, the Mini Plus® Implants have self-tapping characteristic.

COWELL® IMPLANT SYSTEM

More than 20 years of clinical outcomes

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