

[www.cowellmedi.com](http://www.cowellmedi.com)

# COWELL® Implant Solution

Help your daily practice superior **Ver. 25**



**CWM**  
Cowellmedi Co., Ltd.

*The Pioneers in K-Dental Implant & E.rhBMP-2*



# SLA-SH® Surface Treatment

*World's first superhydrophilic surface  
made by dry process*

**Experience the superiority  
of SLA-SH® surface**



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

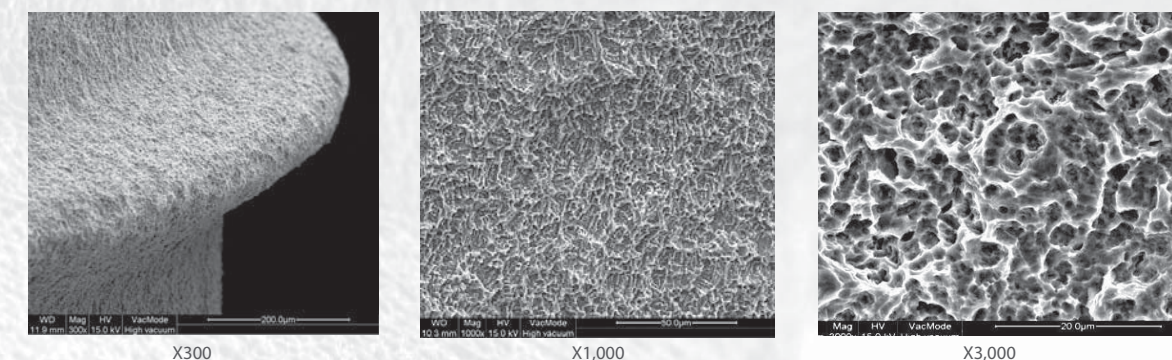
**Aspiring for 100% perfection with SLA-SH®**

## Sandblasted, Large-Grit, Acid-Etched, SuperHydrophilicity-Activated Surface Treatment

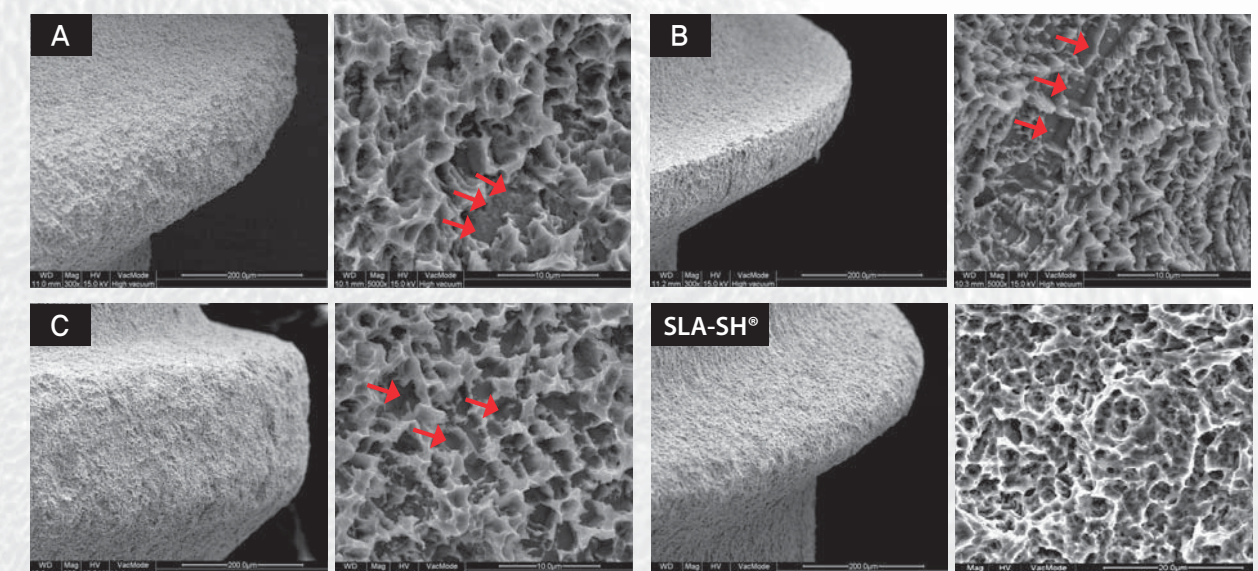
- > Hydrophilicity by activation with neutralization solution & bioactive material coating
- > Sandblasted with Biocompatible grits unlike Majority of implants in market are done with Alumina
- > Macro-pore & Micro-pore of Ti-Oxide layer mimicking the etched enamel rod of tooth
- > Even distribution of roughness through the whole portion of Implant Surface
- > No destruction or alternation of the surface are caused even with torque force at 120 N.cm
- > Acceleration of Osseointegration and Maximization of BIC
- > SLA-SH® is applied for All of the COWELL® Implant Systems

### 1. Evaluation using SEM (Scanning Electron Microscope) Images

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



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

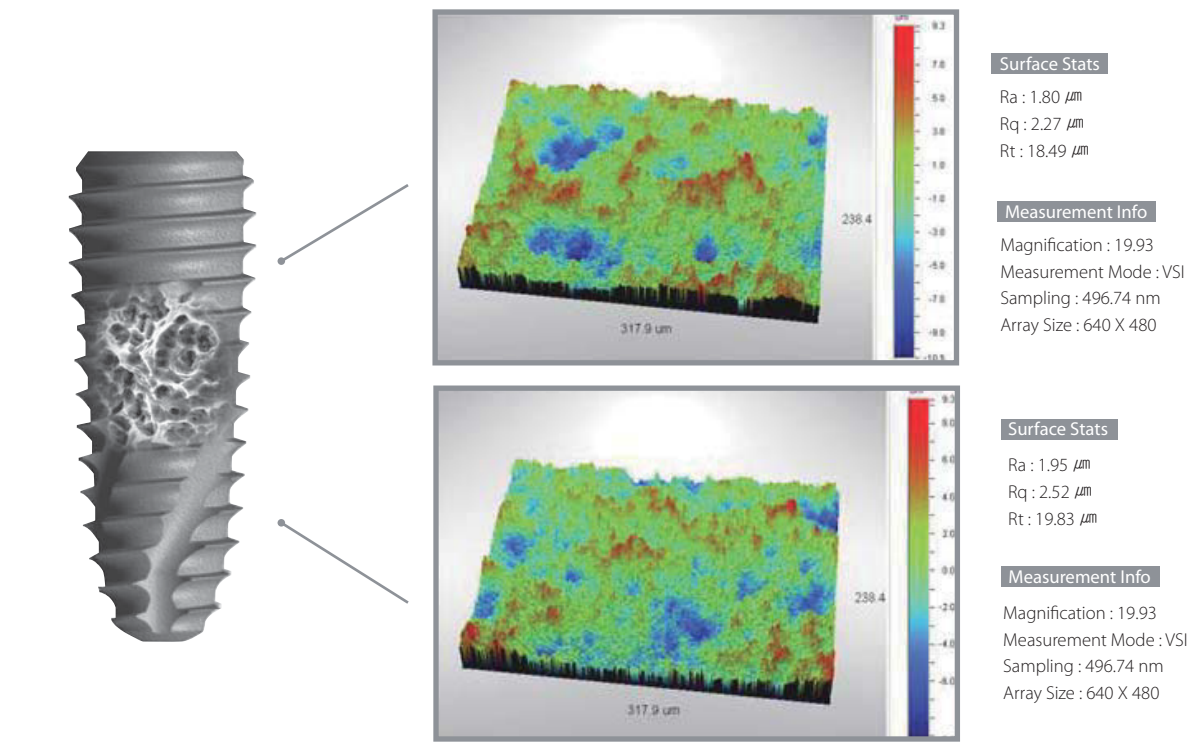


- > Surface treatment patterns were observed on electron microscope photographs of 5,000 magnifications for top parts of the implants.
- > Sand-blasted surface conditions were observed in the product A, B and C due to insufficient acid etching patterns in deep parts as SLA-SH® is sandblasted with Biocompatible 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.

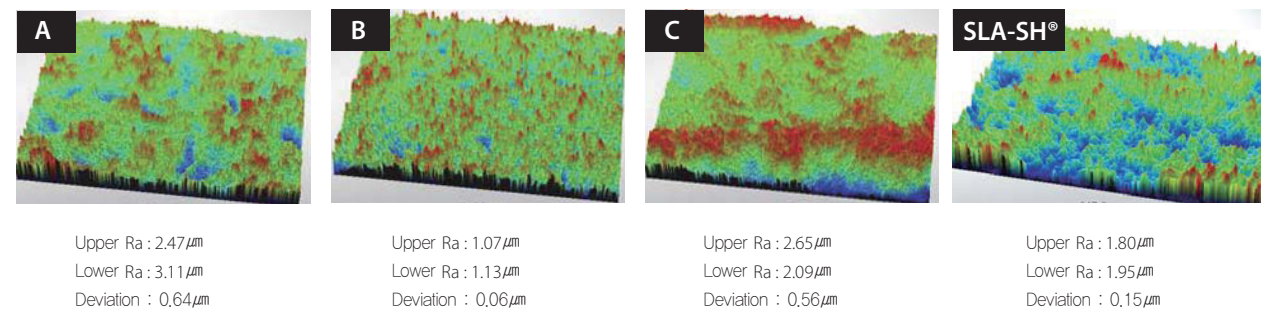


2. Evaluation using SSEM (Stereo Scanning Electron Microscope) 3D images

A. SLA-SH® Surface



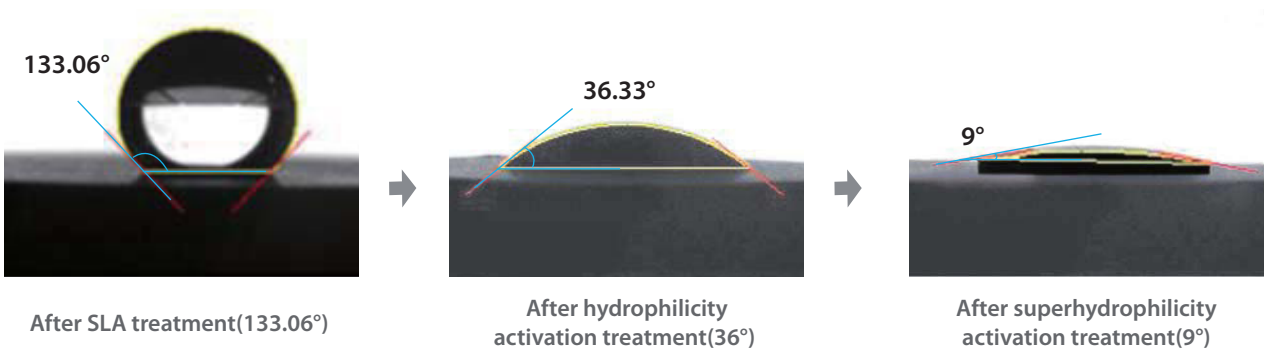
B. Comparison to other SLA treated implants currently sold in the market



- > Uniform distribution of Macro-pore and Micro-pore
- > Roughness average of the A, B and C 1.08~3.11  $\mu\text{m}$ , too low or too high. However, which of SLA-SH® showed 1.90  $\mu\text{m}$

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

A. Contact angle measurement evaluation result for the saline solution

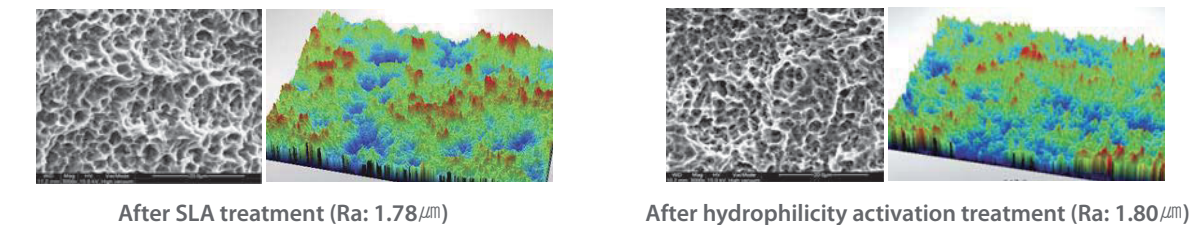


After neutralization process and bioactive material coating treatment, the sample became extremely hydrophilic and the surface energy was increased, which facilitated expedition of osteoblast activation to be fused to the bone faster



Capillarity in the actual clinical setting, which accelerated the penetration of blood  
※ Quoted from the website of Cowellmedi Clinical Research Group ([www.cowellimplant.com](http://www.cowellimplant.com))

B. Relation between surface wetness and roughness



> 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, superhydrophilicity activation treatment was carried out and contamination by carbon in the atmosphere is prevented during packing and sterilization

# 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.

## Meta G ULCA 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.

## Milling Abutment

Block abutment to customize contouring.

## Angulated Abutment

Simple Solution for anterior esthetic zone.

## 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.

## 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™ External Fixture

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

## 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™ 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.

## Cemented Abutment

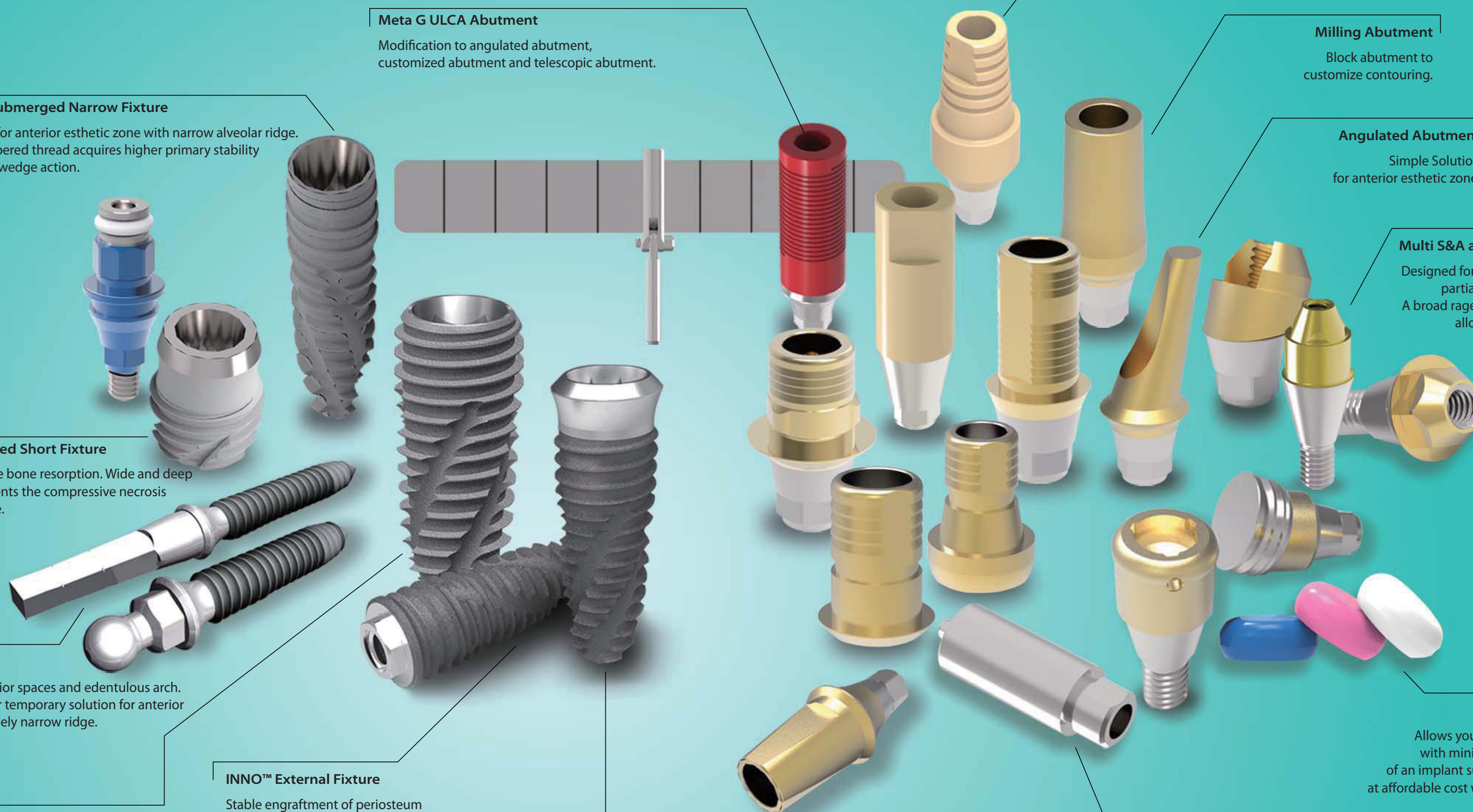
Cutting surface is designed for anti-rotation of prosthesis.

## INNO Fit® Hybrid Ti-Base & Block

Digital integrated prosthetic solution coming with a variety of types and dimensions that optimize predictable results.

## Sonator 80's

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





# INNO-FIXTURE DESIGN



### 11° Tapered and 2.5 Hex Connection

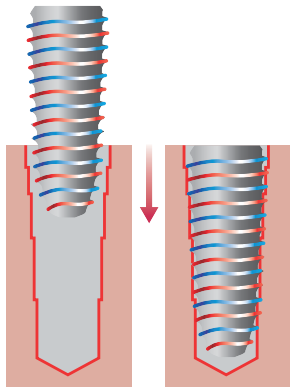
- > Allows the ideal cold welding between the fixture and the abutment.
- > Prevents micro-sinking of the abutment
- > Excellent compatibility

### Wide and deep upper thread

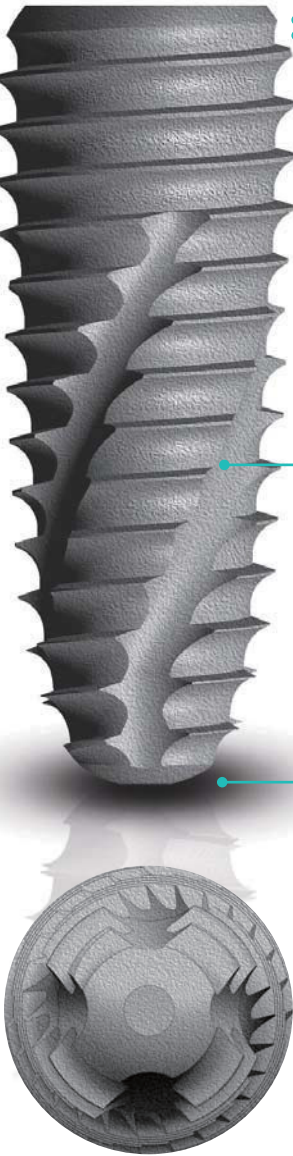
- > Prevents the compressive necrosis of the cortical bone.
- > Minimizes the need for countersink drills.
- > Reinforces mechanical strength by reinforcing thickness.

### 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.
- > Accommodates bone chips as ideal cutting edge pocket space.

### Apex Thread with a sharp cutting edge

- > Higher initial stability
- > Prevents schneiderian membrane from being ripped.

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-S)	Internal (Int.)	External (Ext.)	Submerged Narrow (Sub-N)
Fixture Design					
Connection					

## Simpler, Speedier and Safer Surgical Kit

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



## 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).



# INNO-SUBMERGED IMPLANT

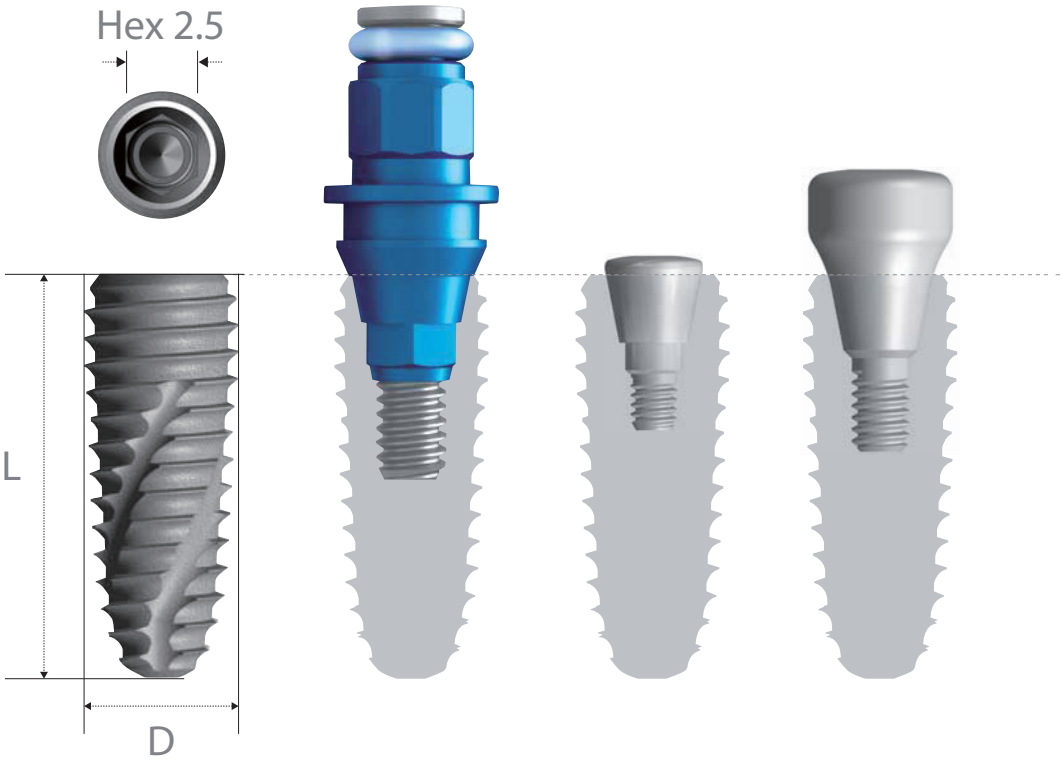
## Submerged Implant System Flow

Fixture		Abutment					Impression									
	Prosthetic Procedure I	<div>033p033p033p033p033p</div> <div>Hybrid S Ø4.0Hybrid S Ø5.0/6.0Hybrid L Ø4.0Hybrid L Ø5.0/6.0Hex Hybrid Ti-Block</div>					<div>033p</div> <div>Scanbody</div> <div>036p037p037p</div> <div>ReplicaPick-up Impression CopingTransfer Post</div>									
	Prosthetic Procedure II	<div>039p039p</div> <div>Multi SMulti A</div>					<div>039p040p040p040p040p041p041p041p041p041p042p</div> <div>Multi Protection CapMulti ScanbodyMulti Hybrid Ti-BaseMulti Impression CopingMulti Transfer PostMulti Lab AnalogMulti Meta G ULCA CylinderMulti Plastic UCLA CylinderMulti Titanium CylinderPolishing Protector</div>									
	Prosthetic Procedure III	<div>044p</div> <div>Lock</div>					<div>044p044p044p044p045p045p045p</div> <div>Lock Protection CapLock ScanbodyLock Hybrid Ti-BaseLock Pick-up Impression CopingLock Lab AnalogLock Meta G UCLA CylinderLock Titanium Cylinder</div>									
	Prosthetic Procedure IV	<div>047p</div> <div>Absolute</div>					<div>047p047p047p047p</div> <div>Absolute Protection CapAbsolute Impression CapAbsolute Lab AnalogAbsolute Plastic Coping</div>									
	Prosthetic Procedure V	<div>048p</div> <div>Straight</div>					Direct Impression									
	Prosthetic Procedure VI	<div>050p050p</div> <div>Sonator SSonator A</div>					<div>051p051p</div> <div>Sonator Impression CopingSonator Analog</div>									
	Prosthetic Procedure VII	<div>054p</div> <div>Ball</div>					<div>054p</div> <div>Ball Analog</div>									

# Submerged Implant



Submerged Fixture  
Surface Treatment : **SLA-SH®**  
> Interchangeable with Hexagonal Morse Tapered Fixture  
> Internal Hex Connection (Taper 11° / Hex 2.5)



### INNO Fixture Code

**S** Type Submerged **T** body Taper **40** Diameter **Ø4.0** **10** Length **10mm** **S** Surface Treatment **SLA** **M** Mount No-Mount

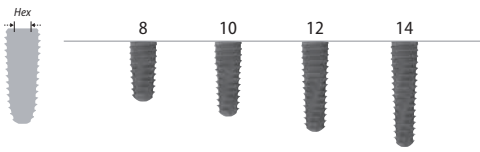
\* Ex.)  
SLA No-Mount **ST4010SM**

**S** Type Submerged **T** body Taper **40** Diameter **Ø4.0** **10** Length **10mm** **S** Surface Treatment **SLA**  Mount Pre-Mount

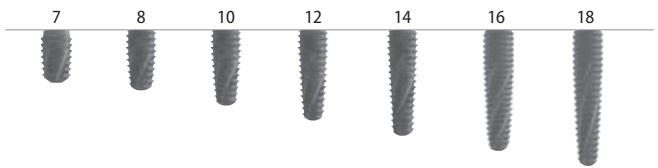
\* Ex.)  
SLA Pre-Mount **ST4010S**

No-Mount > Packing Unit : 1 Fixture + 1 Cover Screw

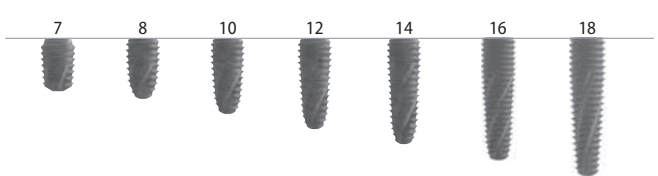
Diameter	Length
Ø3.5	
7	-
8	ST3508SM
10	ST3510SM
12	ST3512SM
14	ST3514SM



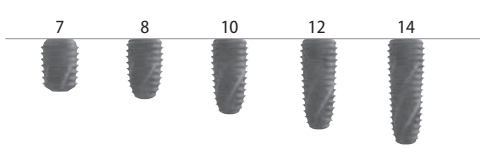
Diameter	Length
Ø4.0	
7	ST4007SM
8	ST4008SM
10	ST4010SM
12	ST4012SM
14	ST4014SM
16	ST4016SM
18	ST4018SM



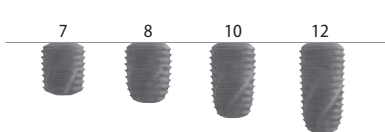
Diameter	Length
Ø4.5	
7	ST4507SM
8	ST4508SM
10	ST4510SM
12	ST4512SM
14	ST4514SM
16	ST4516SM
18	ST4518SM



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

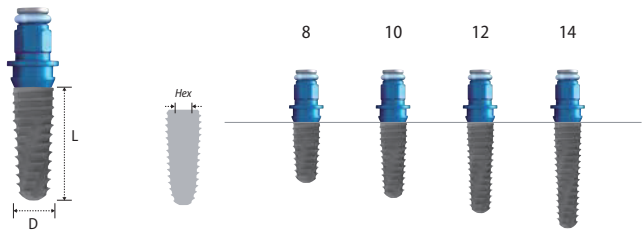


Diameter	Length
Ø6.0	
7	ST6007SM
8	ST6008SM
10	ST6010SM
12	ST6012SM
14	-

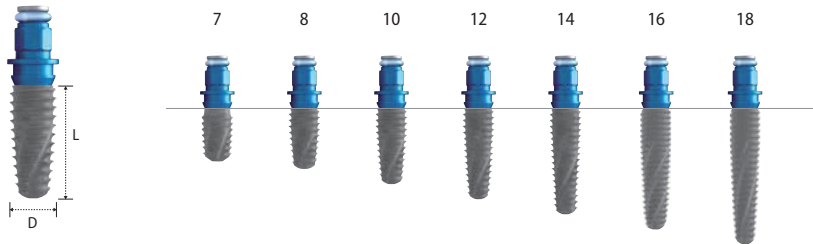


Pre-Mount > Packing Unit : 1 Fixture + 1 Cover Screw + 1 Mount

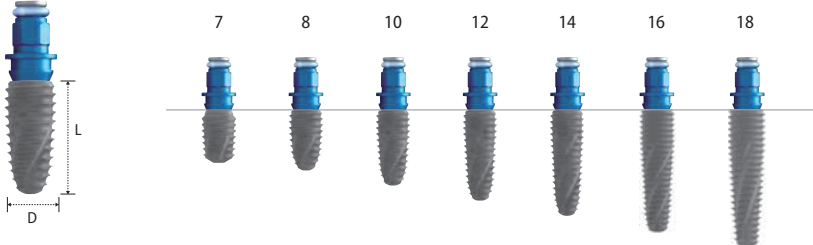
Diameter	Ø3.5
Length	
7	-
8	ST3508S
10	ST3510S
12	ST3512S
14	ST3514S



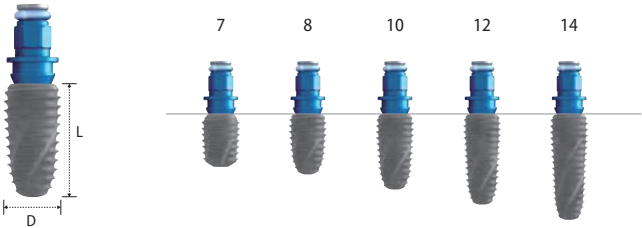
Diameter	Ø4.0
Length	
7	ST4007S
8	ST4008S
10	ST4010S
12	ST4012S
14	ST4014S
16	ST4016S
18	ST4018S



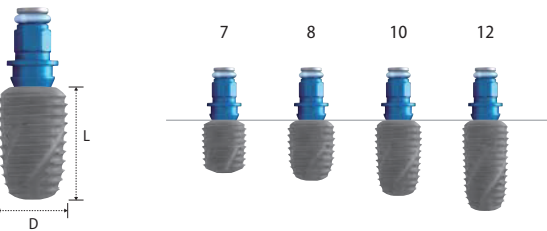
Diameter	Ø4.5
Length	
7	ST4507S
8	ST4508S
10	ST4510S
12	ST4512S
14	ST4514S
16	ST4516S
18	ST4518S



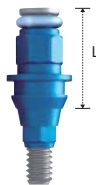
Diameter	Ø5.0
Length	
7	ST5007S
8	ST5008S
10	ST5010S
12	ST5012S
14	ST5014S



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



Fixture Mount



Length	5.4
	2SMHR001

- > Packing Unit : 1 Mount + 1 Mount Screw
- > Tightened with 1.2 Hex Driver
- > Tightening Torque Force : 5~10 N.cm

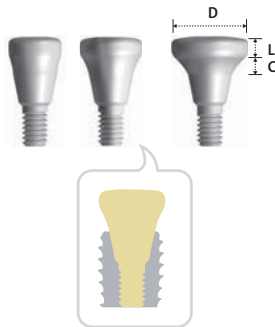
Cover Screw



*Extra Product			
Length	3	4.2	5.2
	2SCS000	*2SCS001	*2SCS002

- > Packing Unit : 1 Cover Screw
- > To Seal the Conical Interface of Fixture
- > Longer Cover Screw for Deeply Inserted Fixture
- > Tightened with 1.2 Hex Driver
- > Tightening Torque Force : 5~10 N.cm

Healing Abutment



Diameter	Ø4.5		Ø5.5		Ø6.5	
Length	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

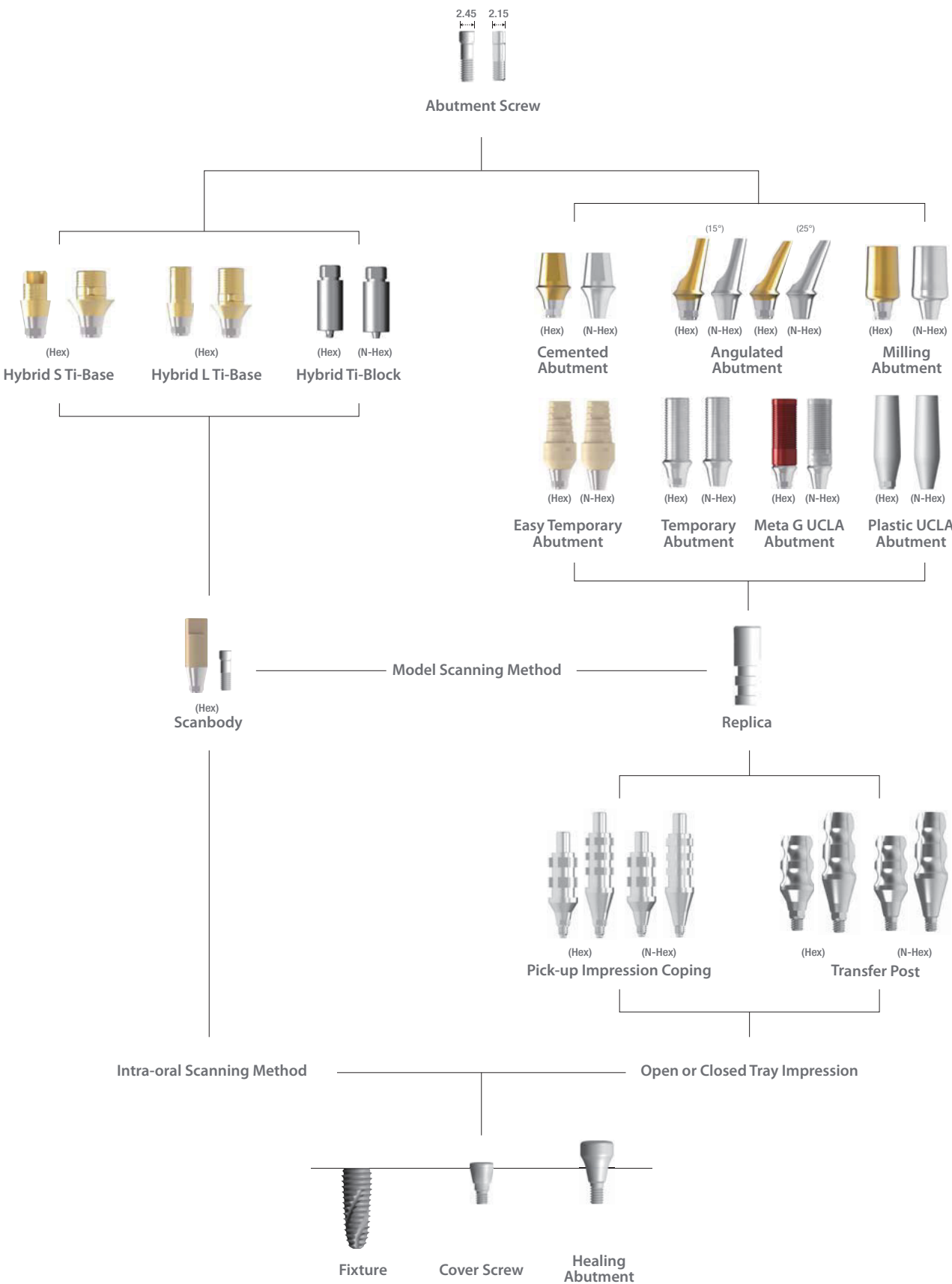
Diameter	Ø7.5		Ø8.5		Ø9.5	
Length	2		2		2	
3	2HS7532		2HS8532		2HS9532	

- > Packing Unit : 1 Abutment
- > For Remodeling Gingival Contour during Soft Tissue Healing
- > Select according to Gingival Height and Abutment Type
- > Tightened with 1.2 Hex Driver
- > Tightening Torque Force : 5~10 N.cm

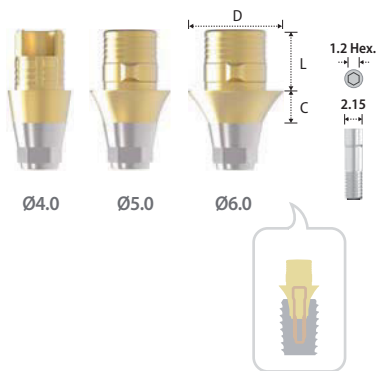


# Prosthetic Procedure I

## Components Selection Guide for Ti-Base & Block, Cemented and UCLA Abutment



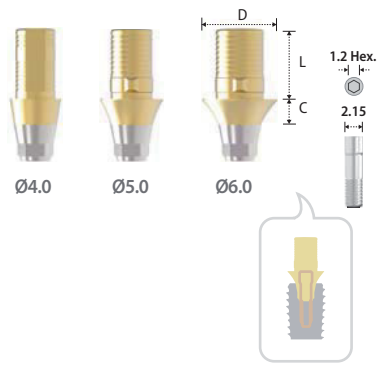
### Hybrid S Ti-Base



Type	Hex		
Diameter	Ø4.0	Ø5.0	Ø6.0
Length	3.75	3.75	3.75
0.8	2SLH404	2SLH504	2SLH604
2	2SLH424	2SLH524	2SLH624
3	2SLH434	2SLH534	2SLH634

- > Packing Unit : 1 Ti-Base + 1 Abutment Screw
- > For Screw-Cement or Screw Retained Abutment
- > Titanium Base for Strength of CAD/CAM
- > Customized Zirconium Abutment or Crown
- > Gold Color for More Translucent Restoration
- > Lingual Surface Hole for More Esthetic Restoration (Ø4.0)
- > Right Angled (Ø4.0) and Humped Design (Ø5.0, Ø6.0) for Anti-Rotation of Prosthesis
- > Library available for EXOCAD®, 3Shape®, Dental Wings® and Others
- > Connected with Abutment Screw (2SSHR200)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Use Scanbody for 3D Work
- > Fixture Level Impression

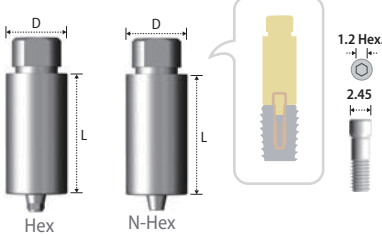
### Hybrid L Ti-Base



Type	Hex		
Diameter	Ø4.0	Ø5.0	Ø6.0
Length	5.5	5.5	5.5
1	2SLH415	2SLH515	2SLH615
2	2SLH425	2SLH525	2SLH625
3	2SLH435	2SLH535	2SLH635

- > Packing Unit : 1 Ti-Base + 1 Abutment Screw
- > For Screw-Cement or Screw Retained Abutment
- > Titanium Base for Strength of CAD/CAM
- > Customized Zirconium Abutment or Crown
- > Gold Color for More Translucent Restoration
- > Cutting Surface (Ø4.0) and Humped Design (Ø5.0, Ø6.0) for Anti-Rotation of Prosthesis
- > Library available for EXOCAD®, 3Shape®, Dental Wings® and Others
- > Connected with Abutment Screw (2SSHR200)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Use Scanbody for 3D Work
- > Fixture Level Impression

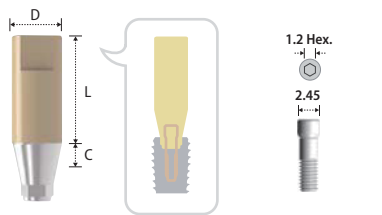
### Hybrid Ti-Block



Type	Hex			N-Hex		
Diameter	10	12	14	10	12	14
Length	20	20	20	20	20	20
	CSHH10S	CSHH12S	CSHH14S	CSHN10S	CSHN12S	CSHN14S

- > Packing Unit : 1 Ti-Block + 2 Abutment Screws
- > For Screw-Cement or Screw Retained Abutment
- > Block Abutment for CAD/CAM Customized Abutment
- > Library available for EXOCAD®, 3Shape®, Dental Wings® and Others
- > Connected with Abutment Screw (2SSHR100)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Use Scanbody for 3D Work
- > Fixture Level Impression

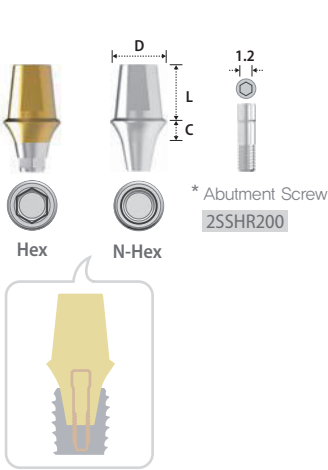
### Scanbody



Diameter	Ø4.3
Length	8
2	2SSB4329

- > Packing Unit : 1 Scanbody + 1 Abutment Screw
- > For both, Model Scanner and Intra Oral Scanner
- > For Hybrid S & L Ti-Base and Hybrid A Ti-Block
- > Titanium Core for More Strength and Precision
- > No Need to Spray
- > Connected with Abutment Screw (2SSHR100)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 15~20 N.cm

Cemented Abutment

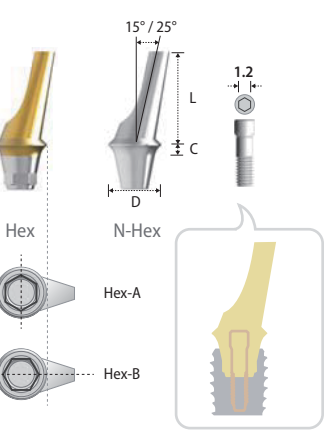


Type	Hex								
Diameter	Ø4.5			Ø5.5			Ø6.5		
Length Cuff	4	5.5	7	4	5.5	7	4	5.5	7
1	2SCH4514	2SCH4515	2SCH4517	2SCH5514	2SCH5515	2SCH5517	2SCH6514	2SCH6515	2SCH6517
2	2SCH4524	2SCH4525	2SCH4527	2SCH5524	2SCH5525	2SCH5527	2SCH6524	2SCH6525	2SCH6527
3	2SCH4534	2SCH4535	2SCH4537	2SCH5534	2SCH5535	2SCH5537	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 Abutment + 1 Abutment Screw
- > For Screw-Cement or Cement Retained Prosthesis
- > Cutting Surface for Anti-rotation of Prosthesis
- > Gold Color for More Translucent Restoration (Hex) and Classification with N-Hex
- > Library available for EXOCAD®, 3Shape®, Dental Wings® and Others
- > Connected with Abutment Screw (2SSHR200)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Use Scanbody for 3D Work
- > Fixture Level Impression

Angulated Abutment

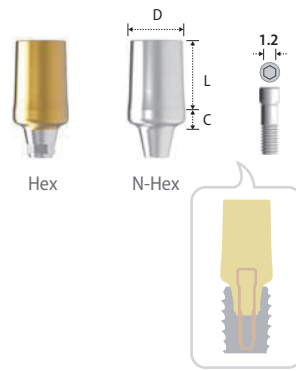


Type	Hex-A				Hex-B			
Diameter(Angle)	Ø4.5(15°)	Ø4.5(25°)	Ø5.5(15°)	Ø5.5(25°)	Ø4.5(15°)	Ø4.5(25°)	Ø5.5(15°)	Ø5.5(25°)
Length Cuff	8	8	8	8	8	8	8	8
1	2SAH45151	2SAH45251	2SAH55151	2SAH55251	2SAH45151B	2SAH45251B	2SAH55151B	2SAH55251B
2	2SAH45152	2SAH45252	2SAH55152	2SAH55252	2SAH45152B	2SAH45252B	2SAH55152B	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 Abutment + 1 Abutment Screw
- > For Screw-Cement or Cement Retained Prosthesis
- > Solution for Anterior Esthetic Zone
- > Connected with Abutment Screw (2SSHR100)
- > Gold Color for More Translucent Restoration (Hex) and Classification with N-Hex
- > Select Hex-A or Hex-B according to Case
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Fixture Level Impression

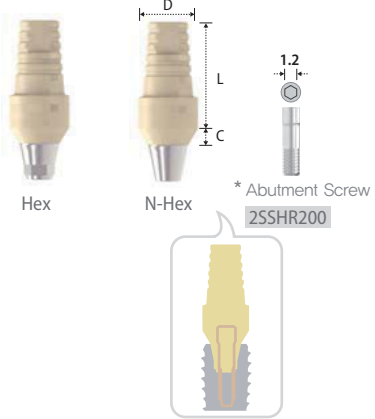
Milling Abutment



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 Abutment + 1 Abutment Screw
- > For Screw-Cement or Cement Retained Prosthesis
- > Block Abutment for Customized Contouring
- > Gold Color for More Translucent Restoration (Hex) and Classification with N-Hex
- > Connected with Abutment Screw (2SSHR100)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Fixture Level Impression

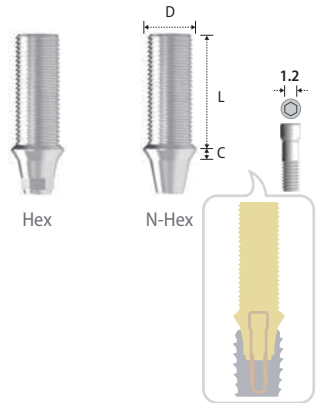
Easy Temporary Abutment



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 Abutment + 1 Abutment Screw
- > For Screw Retained Prosthesis
- > For Simpler and Speedier Chair-side Process
- > Vaneerable Polymer Material
- > Temporary Restoration for Anterior Esthetic Zone
- > Titanium Core for Strength
- > Connected with Abutment Screw (2SSHR200)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 20 N.cm
- > Fixture Level Impression

Temporary Abutment

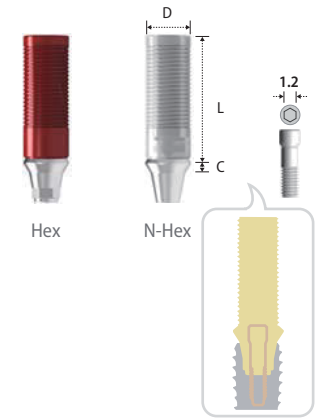


Type	Hex	N-Hex
Diameter	Ø4.5	Ø4.5
Length Cuff	10	10
1	2STHA45	2STNA45

- > Packing Unit : 1 Abutment + 1 Abutment Screw
- > For Screw-Cement Retained Prosthesis
- > For Provisional Restoration
- > Connected with Abutment Screw (2SSHR100)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 20 N.cm
- > Fixture Level Impression



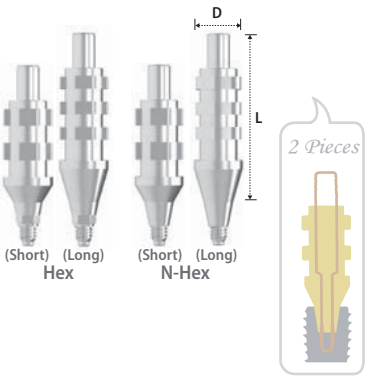
Meta G UCLA Abutment



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

- > Packing Unit : 1 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-Previous Metal or Gold Alloy
- > Connected with Abutment Screw (2SSHR100)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Fixture Level Impression

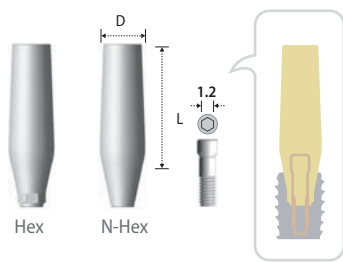
Pick-up Impression Coping



Type	Hex			N-Hex		
Diameter Length	Ø4.5	Ø5.5	Ø6.5	Ø4.5	Ø5.5	Ø6.5
16 (Short)	2SIH45S	2SIH55S	2SIH65S	2SIN45S	2SIN55S	2SIN65S
20 (Long)	2SIH45L	2SIH55L	2SIH65L	2SIN45L	2SIN55L	2SIN65L

- > Packing Unit : 1 Pick-up Impression Coping + 1 Guide Pin
- > For Open Tray Impression
- > Connected with Guide Pin
- > Tightened with 1.2 Hex Driver and Torque Wrench

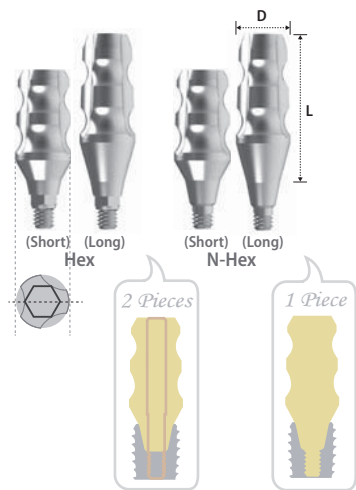
Plastic UCLA Abutment



Type	Hex		N-Hex	
Diameter Length	Ø4.5	Ø5.5	Ø4.5	Ø5.5
14	2SPHR001	2SPHW001	2SPNR001	2SPNW001

- > Packing Unit : 1 Abutment + 1 Abutment Screw
- > Same Purpose of Use as Meta G UCLA Abutment but Low Accuracy of Connection
- > PMMA Material
- > Connected with Abutment Screw (2SSHR100)
- > Tightened with 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

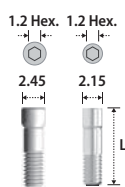
Transfer Post



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

- > Packing Unit : 1 Transfer Post + 1 Guide Pin (Hex) / 1 Transfer Post (N-Hex, Solid Type)
- > For Closed Tray Impression
- > Connected with Guide Pin
- > Tightened with 1.2 Hex Driver and Torque Wrench

Abutment Screw



Diameter Length	2.45	2.15
8.5	2SSHR100	2SSHR200

- > 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 1.2 Hex Driver and Torque Wrench

Replica



Length	12
	2SRHR001

- > Packing Unit : 1 Replica
- > Mimicking of Conical Interface of Fixture
- > Analog of Fixture for Cast Model

Guide Pin



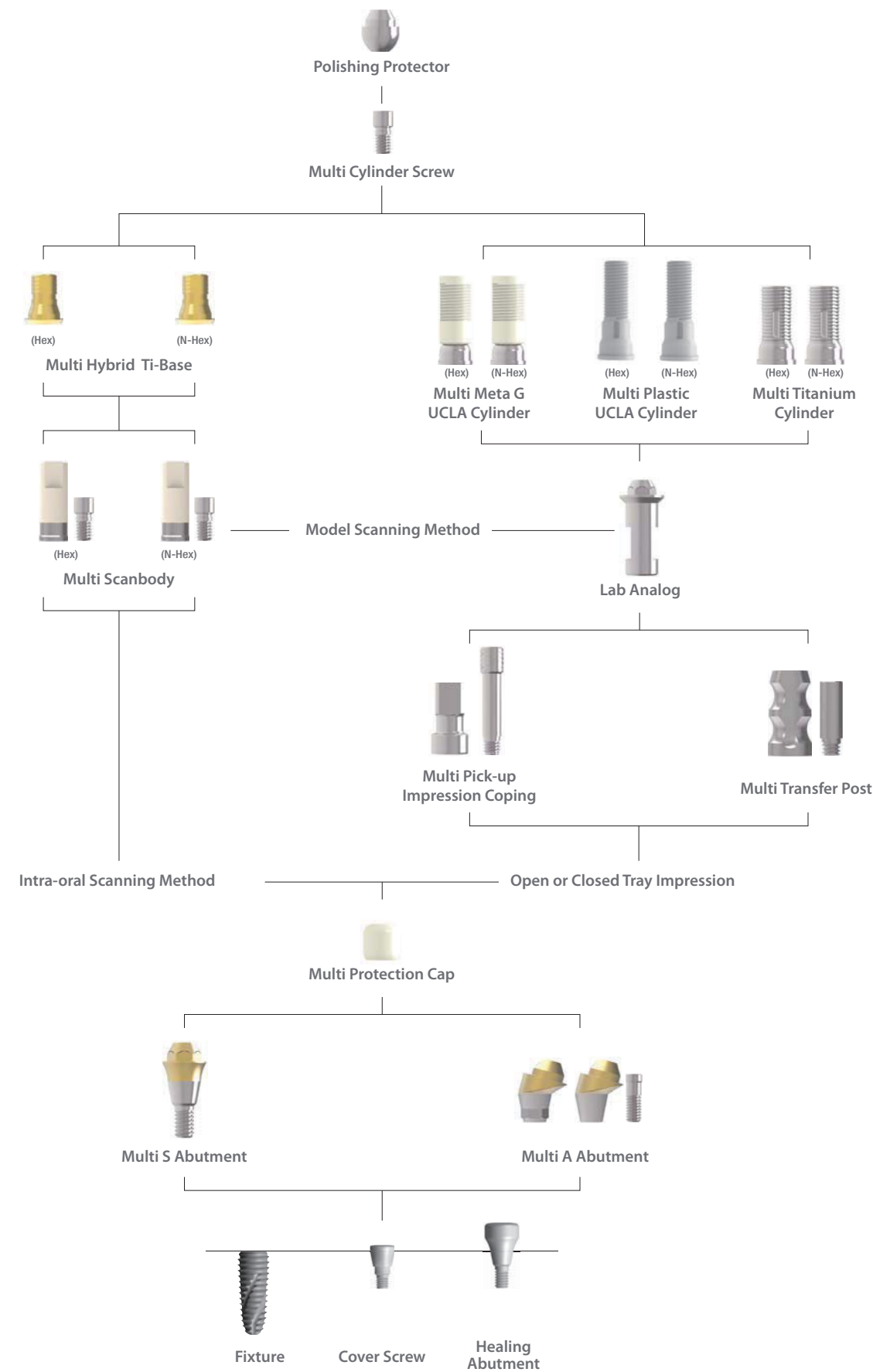
Type Length	Pick-up Impression Coping
22.2(Short)	2SISR001SS
26.2(Long)	2SISR001SL



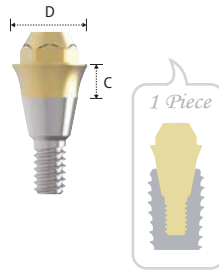
Type Length	Transfer Post
16.3(Short)	2STH001SS
20.3(Long)	2STH001SL

# Prosthetic Procedure II

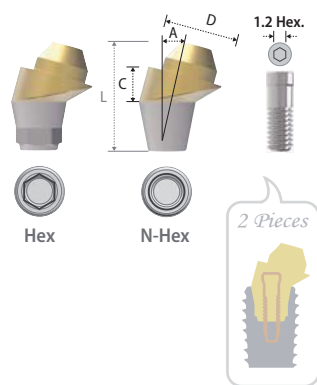
## Component Selection Guide for Multi S&A Abutment



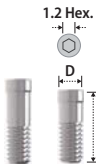
### Multi S Abutment



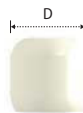
### Multi A Abutment



### Abutment Screw



### Multi Protection Cap



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

- > Packing Unit : 1 Abutment
- > For Screw-Retained Prosthesis
- > Titanium Base for Cylinder
- > Gold Color for More Translucent Restoration
- > Integrated with Screw and Abutment
- > Library available for EXOCAD®, 3Shape®, Dental Wings® and Others
- > Use S Holder for More Stable Position
- > Tightened with S Machine & S Ratchet Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Abutment Level Impression

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

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

- > Packing Unit : 1 Abutment + 1 Abutment Screw
- > For Screw-Retained Prosthesis
- > Titanium Base for Cylinder
- > Gold Color for More Translucent Restoration
- > Library available for EXOCAD®, 3Shape®, Dental Wings® and Others
- > Use A Holder for More Stable Position
- > Connected with Abutment Screw ( 2SSHR300 : ★ / 2SSHR400 : ● )
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Abutment Level Impression

Length Diameter	7.5	6.5
2.15	★ 2SSHR300	● 2SSHR400

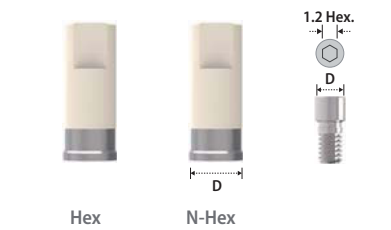
- > Packing Unit : 1 Abutment Screw
- > For Multi A Abutment
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm

Diameter	Ø5.2	Ø6.2
	2SMPC45	2SMPC55

- > Packing Unit : 1 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



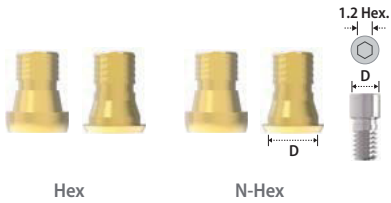
Multi Scanbody



Type	Hex		N-Hex	
Diameter	Ø4.5		Ø4.5	
	2SMB001H		2SMB001N	

- > Packing Unit : 1 Scanbody + 1 Cylinder Screw
- > For both, Model Scanner and Intra Oral Scanner
- > For Multi Hybrid Ti-Base
- > Titanium Core for More Strength and Precision
- > No Need to Spray
- > Connected with Cylinder Screw (2SMCS100)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 15~20 N.cm

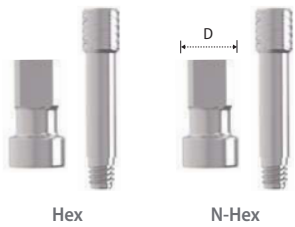
Multi Hybrid Ti-Base



Type	Hex			N-Hex		
Diameter	Ø4.5	Ø4.5	Ø5.5	Ø4.5	Ø4.5	Ø5.5
Cuff						
0.5	2SMHT45H 2SMHT55H			2SMHT45N 2SMHT55N		
1.5	2SMHT40H			2SMHT40N		

- > Packing Unit : 1 Ti-Base + 1 Cylinder Screw
- > For Screw-Cement or Screw Retained Abutment
- > Titanium Base for Strength of CAD/CAM Customized Zirconium Abutment or Crown
- > Gold Color for More Translucent Restoration
- > Cutting Surface for Anti-rotation of Prosthesis
- > Library available for EXOCAD®, 3Shape®, Dental Wings® and Others
- > Connected with Cylinder Screw (2SMCS100)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N/cm
- > Use Scanbody for 3D Work
- > Abutment Level Impression

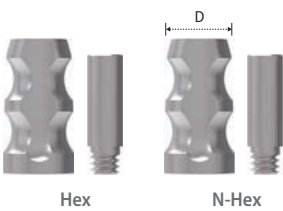
Multi Pick-up Impression Coping



Type	Hex		N-Hex	
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
	2SMIH45	2SMIH55	2SMIN45	2SMIN55

- > Packing Unit : 1 Impression Coping + 1 Guide Pin
- > For Open Tray Impression
- > Connected with Guide Pin
- > Tightened with 1.2 Hex Driver and Torque Wrench

Multi Transfer Post



Type	Hex		N-Hex	
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
	2SMTH45	2SMTH55	2SMTN45	2SMTN55

- > Packing Unit : 1 Transfer Post + 1 Guide Pin
- > For Closed Tray Impression
- > Connected with Guide Pin
- > Tightened with 1.2 Hex Driver and Torque Wrench

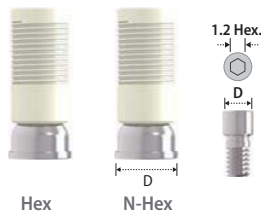
Multi Lab Analog



Diameter	Ø4.5	Ø5.5
	2SMA45	2SMA55

- > Packing Unit : 1 Analog
- > Replacement of Abutment Shape in Cast Model
- > Choose by Abutment Size

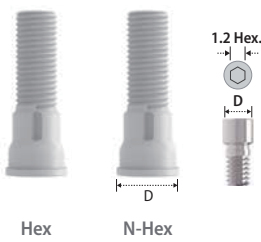
Multi Meta G UCLA Cylinder



Type	Hex		N-Hex	
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
	2SCCH45	2SCCH55	2SCCN45	2SCCN55

- > Packing Unit : 1 Cylinder + 1 Cylinder Screw
- > For Screw, Cement or Screw-Cement Retained Prosthesis
- > Modification to Various Types of Abutment
- > CCM Alloy Core for Precise Connection
- > Cast with Non-Previous Metal or Gold Alloy
- > Connected with Cylinder Screw
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm

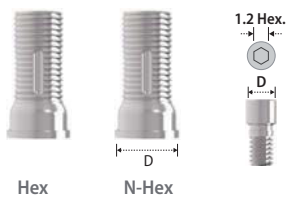
Multi Plastic UCLA Cylinder



Type	Hex		N-Hex	
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
	2SMPH45	2SMPH55	2SMPN45	2SMPN55

- > Packing Unit : 1 Cylinder + 1 Cylinder Screw
- > For Screw, Cement or Screw-Cement Retained Prosthesis
- > Same Purpose of Use as Meta G UCLA Cylinder but Low Accuracy of Connection
- > PMMA Material
- > Connected with Cylinder Screw
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm

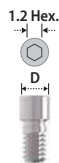
Multi Titanium Cylinder



Type	Hex		N-Hex	
Diameter	Ø4.5	Ø5.5	Ø4.5	Ø5.5
	2STCH45	2STCH55	2STCN45	2STCN55

- > Packing Unit : 1 Cylinder + 1 Cylinder Screw
- > For Screw, Cement or Screw-Cement Retained Prosthesis
- > Connected with Cylinder Screw
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm

Multi Cylinder Screw



	2SMCS100
--	----------

- > Packing Unit : 1 Cylinder Screw
- > Connected with Meta G UCLA, Plastic UCLA and Titanium Cylinder
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm

Polishing Protector



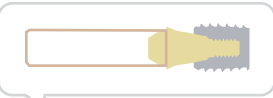
Diameter	Ø4.5	Ø5.5
	2SMPP45	2SMPP55

> Packing Unit : 1 Protector  
> For Polishing Work during Lab Procedure

Holder



S Holder



KMHS01

- > Packing Unit : 1 Holder
- > To Position Multi S Abutment More Stably



A Holder



KMHA01

- > Packing Unit : 1 Holder
- > To Position Multi A Abutment More Stably

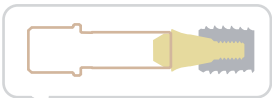
S Machine Driver



KMMSD21L

- > Packing Unit : 1 Driver
- > To Install Multi S Abutment by hand

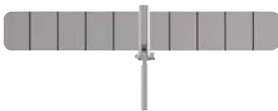
S Ratchet Driver



KRMSD15L

- > Packing Unit : 1 Driver
- > To Install Multi S Abutment by Machine

Multi-Uni Direct Surgical Stent

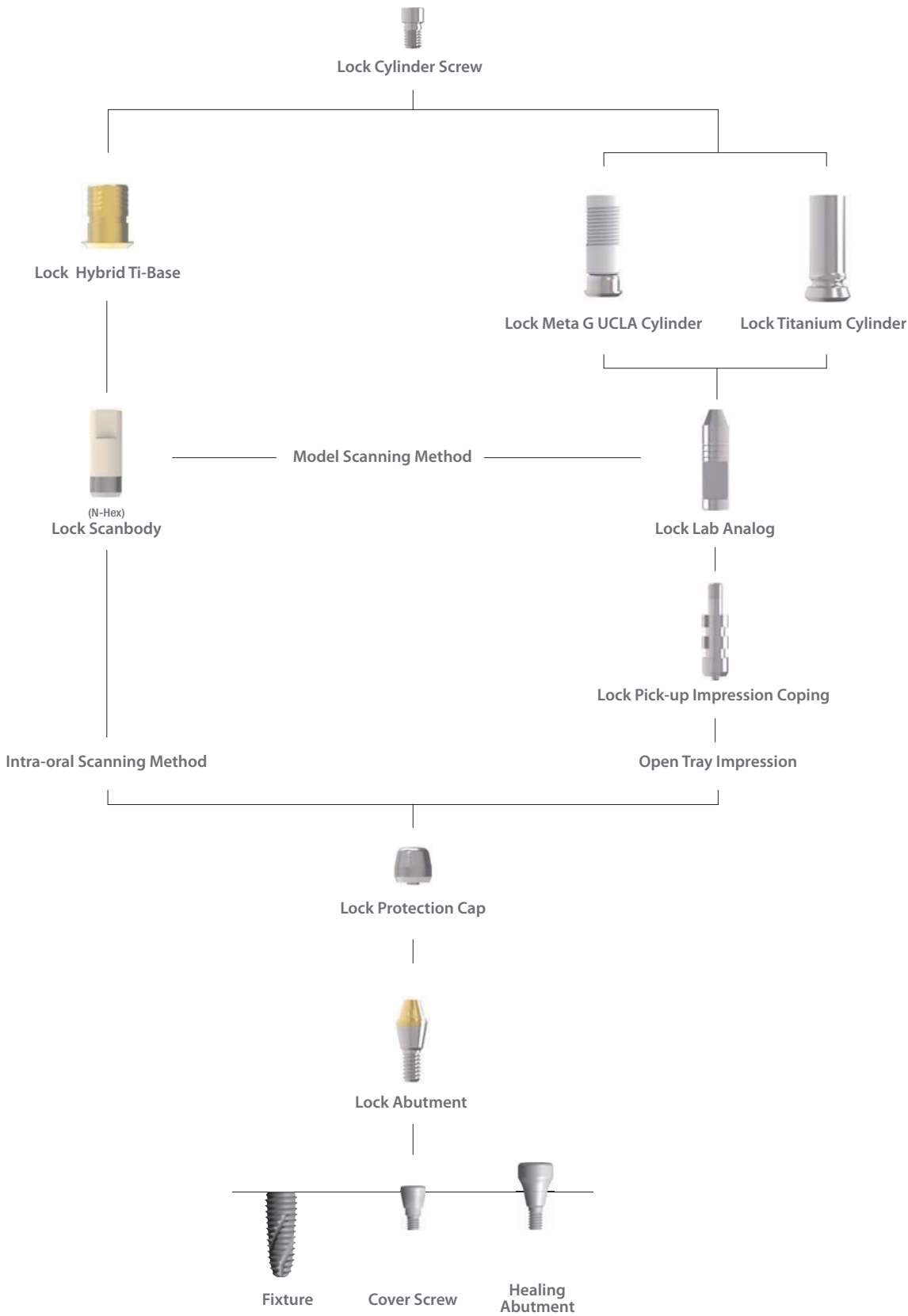


KDSS001

- > To Guide Implant Placement using AO4 or AO6 Technique
- > For more information, please refer to the Page 138.

# Prosthetic Procedure III

## Component Selection Guide for Lock Abutment





Lock Abutment



<div><div><div><div></div><div>Diameter</div></div><div>Cuff</div></div></div> <div></div>	Ø4.5
0.5	2SLA400
1	2SLA410
2	2SLA420
3	2SLA430
4	2SLA440

- > Packing Unit : 1 Abutment

> For Screw-Retained Prosthesis

> Titanium Base for Cylinder

> Gold Color for More Translucent Restoration
- > Integrated with Screw and Abutment

> Tightened with Lock Ratchet Driver and Torque Wrench

> Tightening Torque Force : 30 N.cm

> Abutment Level Impression

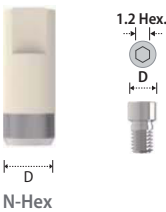
Lock Protection Cap



Diameter	Ø4.5
	2SLP45

- > Packing Unit : 1 Cap
- > Protection from Cheek and Tongue for Gingival Healing Period
- > Gingival Retraction for Prosthodontic Margin of Abutment

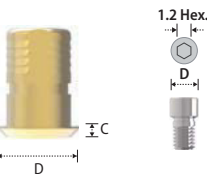
Lock Scanbody



Diameter	Ø4.5
	2SLB001H

- > Packing Unit : 1 Scanbody + 1 Cylinder Screw
- > For both, Model Scanner and Intra Oral Scanner
- > For Lock Hybrid Ti-Base
- > Titanium Core for More Strength and Precision
- > No Need to Spray
- > Connected with Cylinder Screw (2SMCS200)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 15~20 N.cm

Lock Hybrid Ti-Base



Diameter	Ø4.5
	2SLHT40N

- > Packing Unit : 1 Ti-Base + 1 Cylinder Screw
- > For Screw-Cement or Screw Retained Abutment
- > Titanium Base for Strength of CAD/CAM Customized Zirconium Abutment or Crown
- > Gold Color for More Translucent Restoration
- > Cutting Surface for Anti-rotation of Prosthesis
- > Library available for EXOCAD®, 3Shape®, Dental Wings® and Others
- > Connected with Cylinder Screw (2SMCS200)
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm
- > Use Scanbody for 3D Work
- > Abutment Level Impression

Lock Pick-up Impression Coping



Diameter	Ø4.5
	2SLIH45

- > Packing Unit : 1 Impression Coping + 1 Guide Pin
- > For Open Tray Impression

Lock Lab Analog



Diameter	Ø4.5
	2SLA45

- > Packing Unit : 1 Analog
- > Replacement of Abutment Shape in Cast Model
- > Connected with Guide Pin
- > Tightened with 1.2 Hex Driver and Torque Wrench

Lock Meta G UCLA Cylinder



Diameter	Ø4.5
	2SLCH45

- > Packing Unit : 1 Cylinder + 1 Cylinder Screw
- > For Screw, Cement or Screw-Cement Retained Prosthesis
- > Modification to Various Types of Abutment
- > CCM Alloy Core for Precise Connection
- > Cast with Non-Previous Metal or Gold Alloy
- > Connected with Cylinder Screw
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm

Lock Titanium Cylinder



Diameter	Ø4.5
	2SLTH45

- > Packing Unit : 1 Cylinder + 1 Cylinder Screw
- > For Screw, Cement or Screw-Cement Retained Prosthesis
- > Connected with Cylinder Screw
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm

Lock Cylinder Screw



	2SLCS200
--	----------

- > Packing Unit : 1 Cylinder Screw
- > Connected with CCM Cylinder or Titanium Cylinder
- > Tightened with 1.2 Hex Driver and Torque Wrench
- > Tightening Torque Force : 30 N.cm

Lock Ratchet Driver



	KRLRD18
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- > Packing Unit : 1 Driver
- > To Install Lock Abutment by Hand

Multi-Uni Direct Surgical Stent



	KDSS001
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- > To Guide Implant Placement using AO4 or AO6 Technique
- > For more information, please refer to Page 138.