

INTERNAL Implant SYSTEM



CSM Implant

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IC-Rev01_AF/01



Internal Implant (Straight)



Internal Implant (Tapered)



Submerged Implant






























Submerged II Implant



Apolonia Implant System SINCE 2000

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Fixture Features



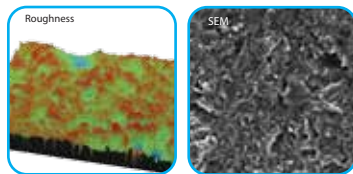
Screw Connection
fixtures are coupled with M2.0



Connection
3.1mm Octagon

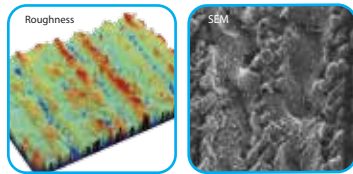
Active RBM Surface Treatment

Roughness value(Ra) of 1.2um~1.8um. The surface has optimized roughness value for osseointegration.

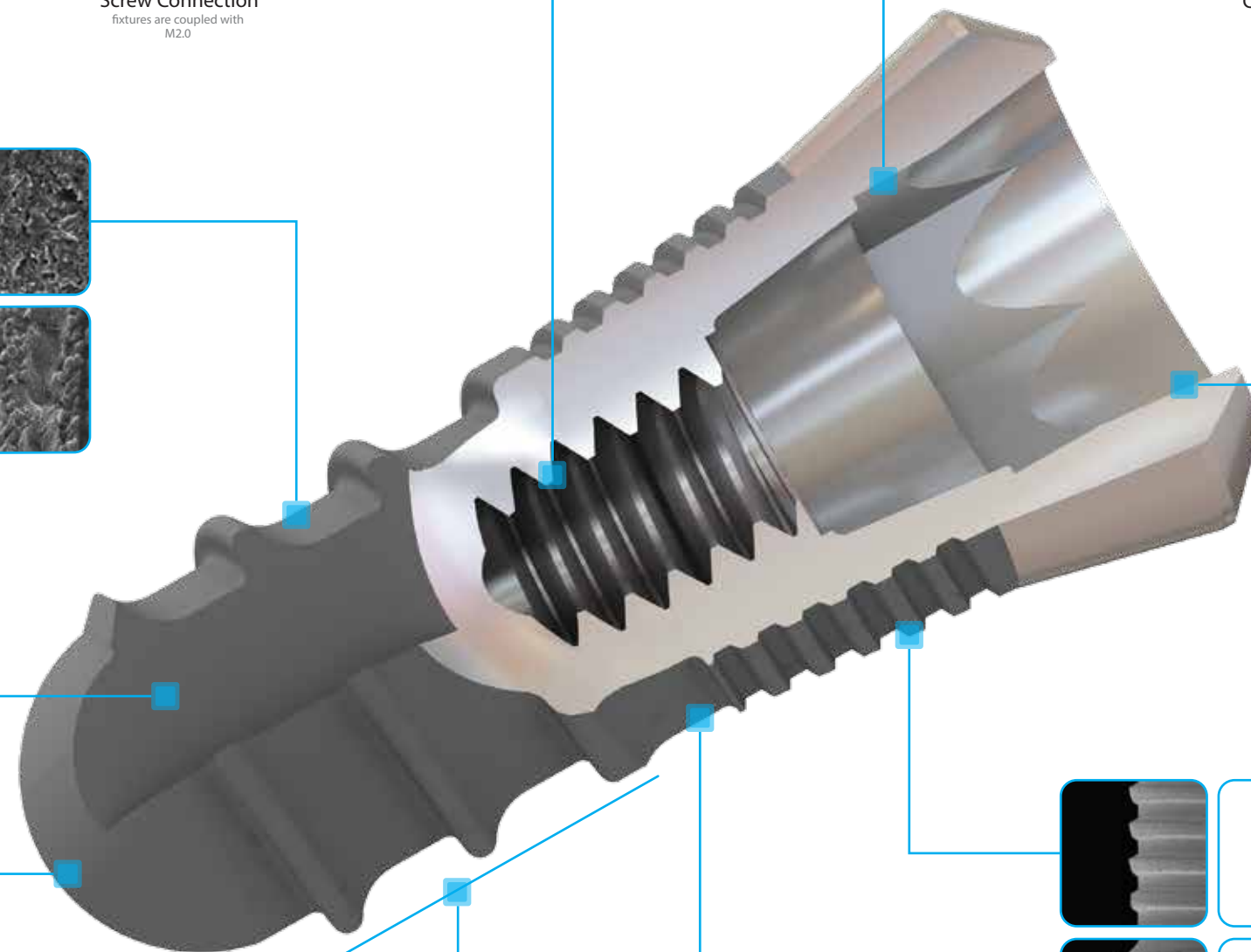


Dual Laser Surface Treatment

We are the world's first laser surface treatment technology holder for early loading.



8° Taper
With perfect combination between abutment and 8° taper bacterial penetrations are prevented. Also it supports distribution of bone stress to minimize bone loss.



Cutting Edge

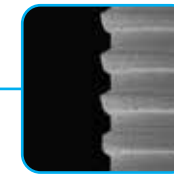
The surplus bone will be accumulated with natural self-tapping feature and it increases the fixture's fixation.



Round Apex

The round apex has beautiful shape and it minimize the resistance of the bone during implantation and it prevents potential damage onto sinus membrane or mandibular nerve.

Straight Design



Super Micro Thread

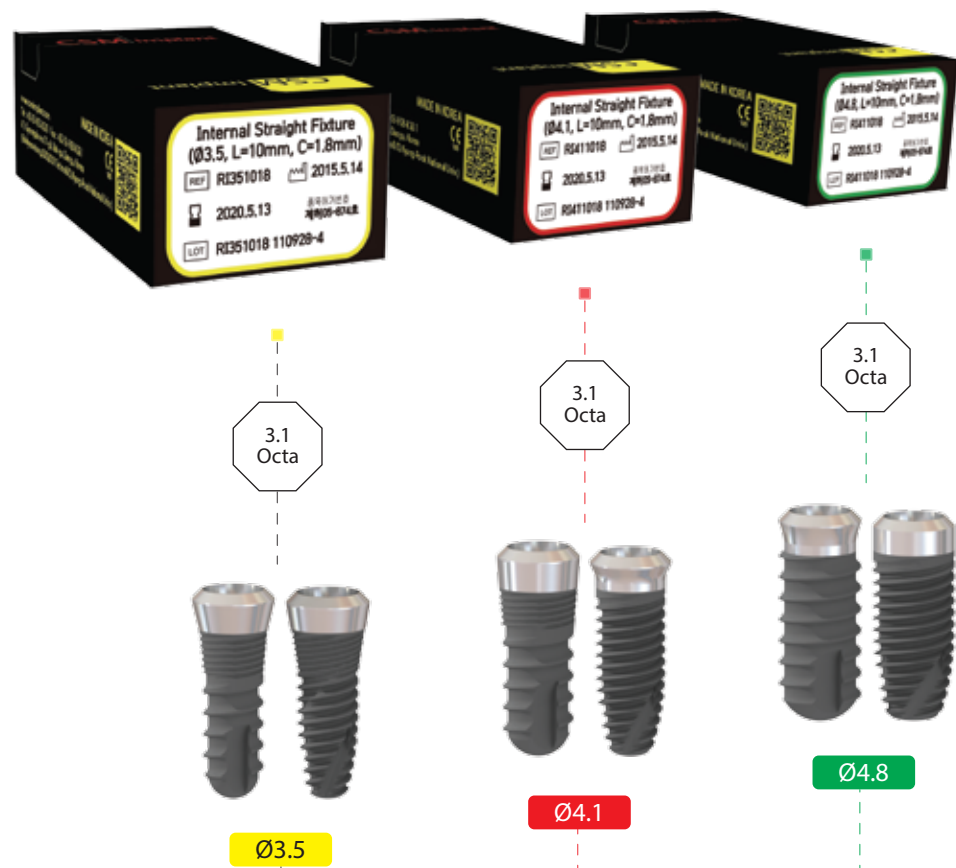
3 lines of micro threads are designed to help quick placement, increases excellent initial stability and minimizes bone loss. It serves proper distribution of stress and prevents cortical absorption due to bacterial infection.



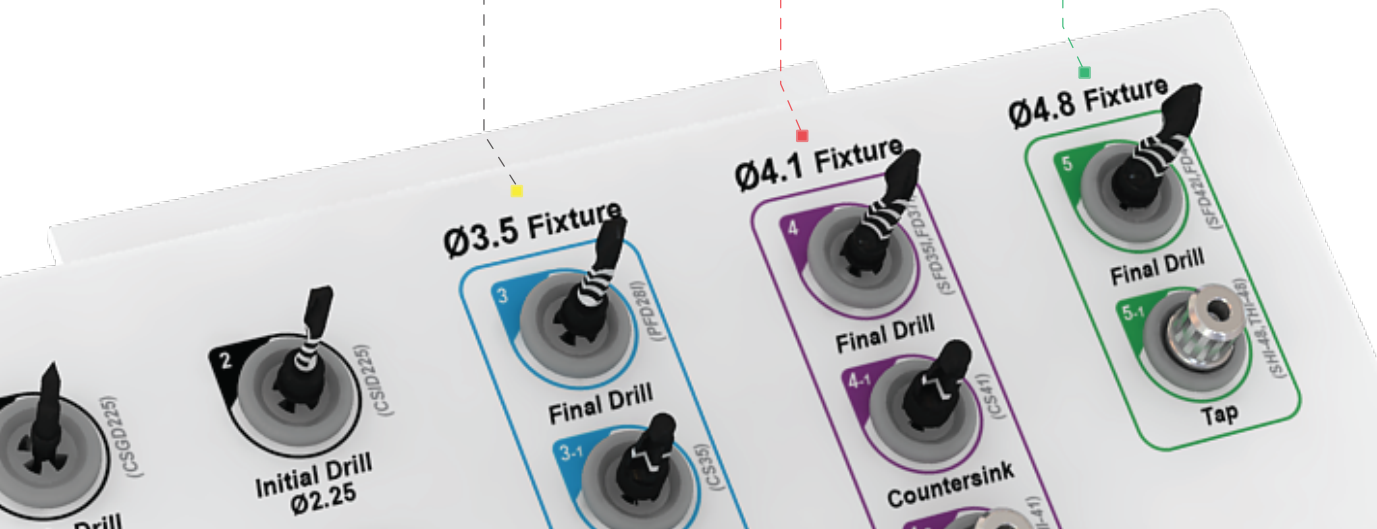
Dynamic Body Thread

Wide and deep round thread design minimizes frictional force while a fixture is inserting into the bone and its optimized stress breakup.

Fixture Line Up



Select Guide



Package System



- | | | | |
|--|--|---|--|
| <p>01</p> <p>Check the size of fixture and pull out the product from the box.</p> | <p>02</p> <p>Rip off the paper on plastic case and pull out the ampoule.</p> | <p>03</p> <p>Hold plastic ampoule and rotate the cap to open.</p> | <p>04</p> <p>Check inside of fixture.</p> |
| <p>05</p> <p>Use mount driver (Hand or Machine) Please take out inner plastic case from the outer ampoule.</p> | <p>06</p> <p>Implanting (After placement, remove the mounting screw and Octagon Abutment).</p> | <p>07</p> <p>Hold up the ampoule cap and remove cap cover.</p> | <p>08</p> <p>Use CSM torx driver and connect the screw and tighten coupling of the cover screw into the fixture.</p> |

KIT



Product Overview

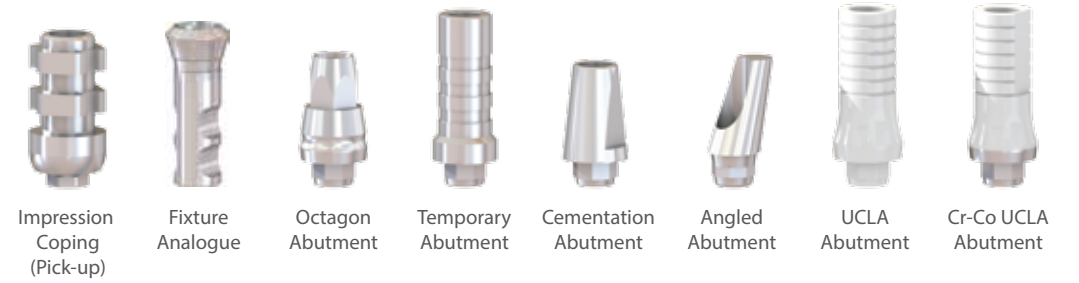
Fixture



Cover Screw / Healing Abutment / Healing Cap



Fixture Level Impression



Abutment Level Impression I



Abutment Level Impression II



Overdenture



Fixture [Straight Type]

Oct

3.1 Oct

Diameter (Ø)	3.5	3.5	3.5	3.5
Length (mm)	08	10	12	14
Pro Code	RI350818	RI351018	RI351218	RI351418

3.1 Oct

Diameter (Ø)	4.1	4.1	4.1	4.1
Length (mm)	08	10	12	14
Pro Code	RI410818	RI411018	RI411218	RI411418

3.1 Oct

Diameter (Ø)	4.8	4.8	4.8	4.8
Length (mm)	08	10	12	14
Pro Code	RI480818	RI481018	RI481218	RI481418

Fixture [Straight Type]

Oct

3.1 Oct

Diameter (Ø)	3.5	3.5	3.5	3.5
Length (mm)	08	10	12	14
Pro Code	RI350828	RI351028	RI351228	RI351428

3.1 Oct

Diameter (Ø)	4.1	4.1	4.1	4.1
Length (mm)	08	10	12	14
Pro Code	RI410828	RI411028	RI411228	RI411428

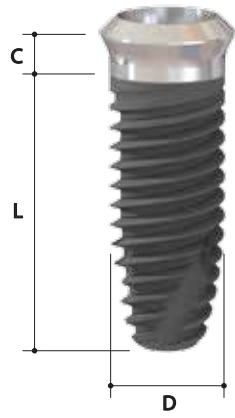
3.1 Oct

Diameter (Ø)	4.8	4.8	4.8	4.8
Length (mm)	08	10	12	14
Pro Code	RI480828	RI481028	RI481228	RI481428

Fixture [Tapered Type]



3.1 Oct	Ø4.8	L	D
Diameter (Ø)	3.5	08	3.5
Length (mm)			
Pro' Code	RKIT350815	RKIT351015	RKIT351215
			RKIT351415



3.1 Oct	Ø4.8	L	D
Diameter (Ø)	4.1	08	4.1
Length (mm)			
Pro' Code	RKIT410815	RKIT411015	RKIT411215
			RKIT411415

3.1 Oct	Ø4.8	L	D
Diameter (Ø)	4.8	08	4.8
Length (mm)			
Pro' Code	RKIT480815	RKIT481015	RKIT481215
			RKIT481415

Cover Screw



3.1 Non	D
Diameter (Ø)	3.5
Pro' Code	IC53



Torque : 5Ncm

Healing Abutment

Non

3.1
Non



Diameter (Ø)	5.5	5.5	5.5
Height (mm)	3.0	4.5	5.5
Pro' Code	IHA30	IHA45	IHA55



Torque : 5Ncm

Healing Cap

Non

3.1
Non

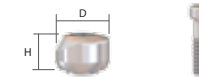


Diameter (Ø)	5.5	*Screw
Height (mm)	2.0	IHACS20
Pro' Code	IHAC20	



Torque : 5Ncm

3.1
Non



Diameter (Ø)	5.5	*Screw
Height (mm)	3.5	IHACS35
Pro' Code	IHAC35	



INTERNAL SYSTEM

Fixture
Level
Impression

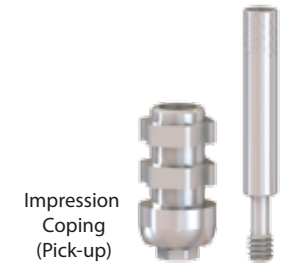
Flowchart



Octagon Abutment Temporary Abutment Cementation Abutment Angled Abutment UCLA Abutment Cr-Co UCLA Abutment



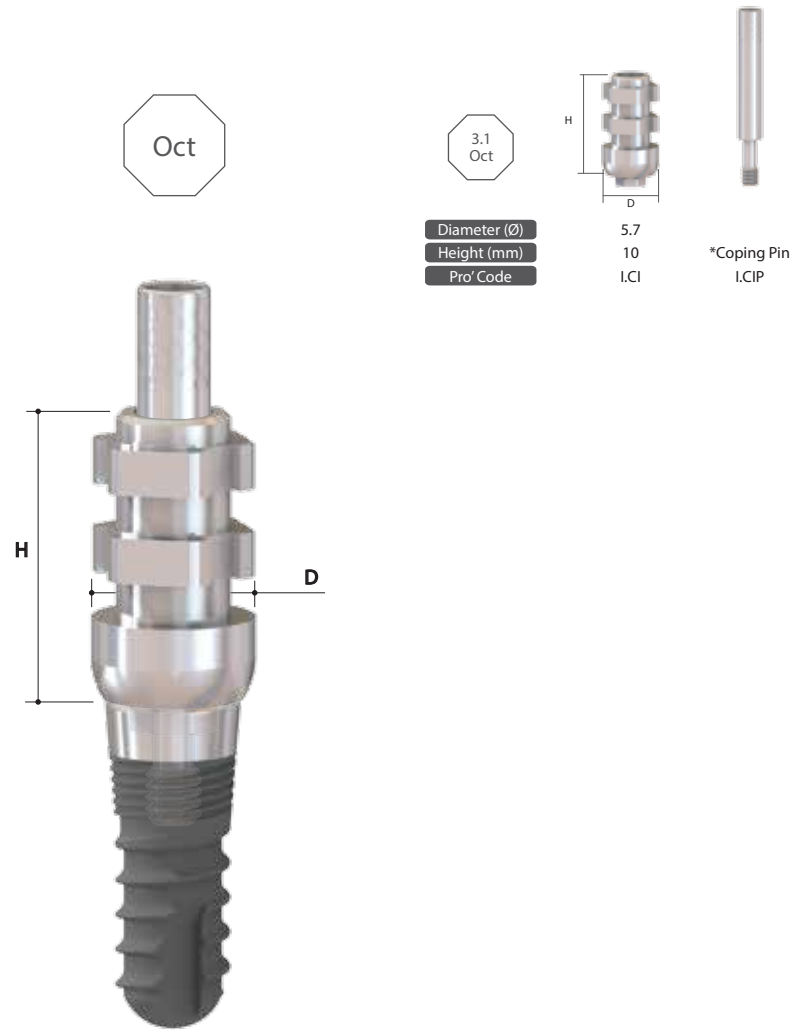
Fixture Analogue



Impression Coping (Pick-up)

Fixture

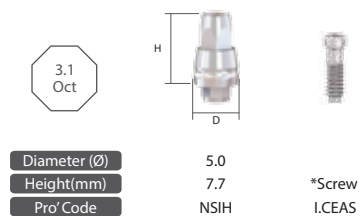
Impression Coping [Pick-up]



Fixture Analogue

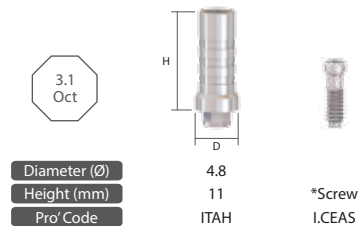


Octagon Abutment

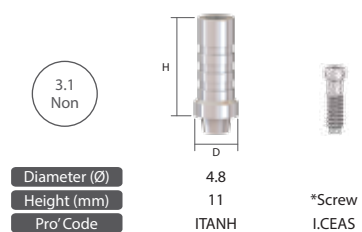


Torque : 30Ncm

Temporary Abutment

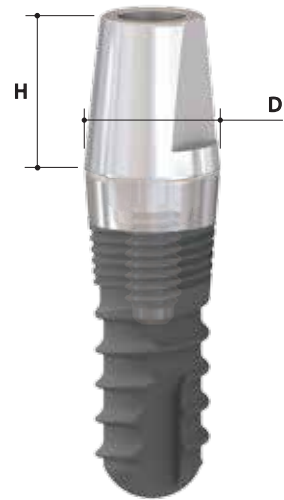


Torque : 30Ncm



Cementation Abutment

15° Angled Abutment



Torque : 30Ncm

Diameter (Ø)	4.8	4.8	4.8	*Screw
Height (mm)	4.0	5.5	7.0	I.CEAS
Pro' Code	ICA40	ICA55	ICA70	

Diameter (Ø)	4.8	4.8	4.8	*Screw
Collar (mm)	1.0	2.0	3.0	I.CEAS
Pro' Code	ICA701	ICA702	ICA703	

Diameter (Ø)	4.8	4.8	4.8	*Screw
Height (mm)	4.0	5.5	7.0	I.CEAS
Pro' Code	ICA40N	ICA55N	ICA70N	

Diameter (Ø)	4.8	4.8	4.8	*Screw
Collar (mm)	1.0	2.0	3.0	I.CEAS
Pro' Code	ICA701N	ICA702N	ICA703N	



Torque : 30Ncm

A Type		
Diameter (Ø)	4.0	*Screw
Height (mm)	7.0	IPS
Pro' Code	IAAA15	

B Type		
Diameter (Ø)	4.0	*Screw
Height (mm)	7.0	IPS
Pro' Code	IAAB15	

Diameter (Ø)	4.0	*Screw
Height (mm)	7.0	IPS
Pro' Code	IAA15N	

25° Angled Abutment



Torque : 30Ncm

A Type

3.1 Oct

Diameter (Ø)	4.0
Height (mm)	7.0
Pro' Code	IAAA25

*Screw
IPS

B Type

3.1 Oct

Diameter (Ø)	4.0
Height (mm)	7.0
Pro' Code	IAAB25

*Screw
IPS

3.1 Non

3.1 Non

Diameter (Ø)	4.0
Height (mm)	7.0
Pro' Code	IAA25N

*Screw
IPS

UCLA Abutment



Torque : 30Ncm

3.1 Oct

3.1 Oct

Diameter (Ø)	5.0
Collar (mm)	1.0
Pro' Code	IUAAPL

*Screw
IPSU

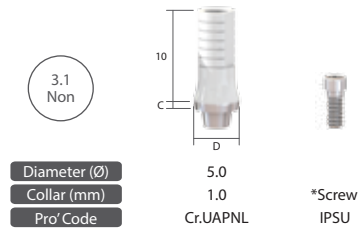
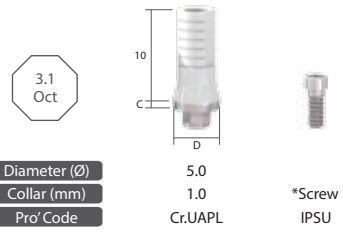
3.1 Non

3.1 Non

Diameter (Ø)	5.0
Collar (mm)	1.0
Pro' Code	IUAAPNL

*Screw
IPSU

Cr-Co UCLA Abutment



Torque : 30Ncm



Flowchart



UCLA
Cylinder



Octa Abutment
Analogue



Impression
Coping (Pick-up)



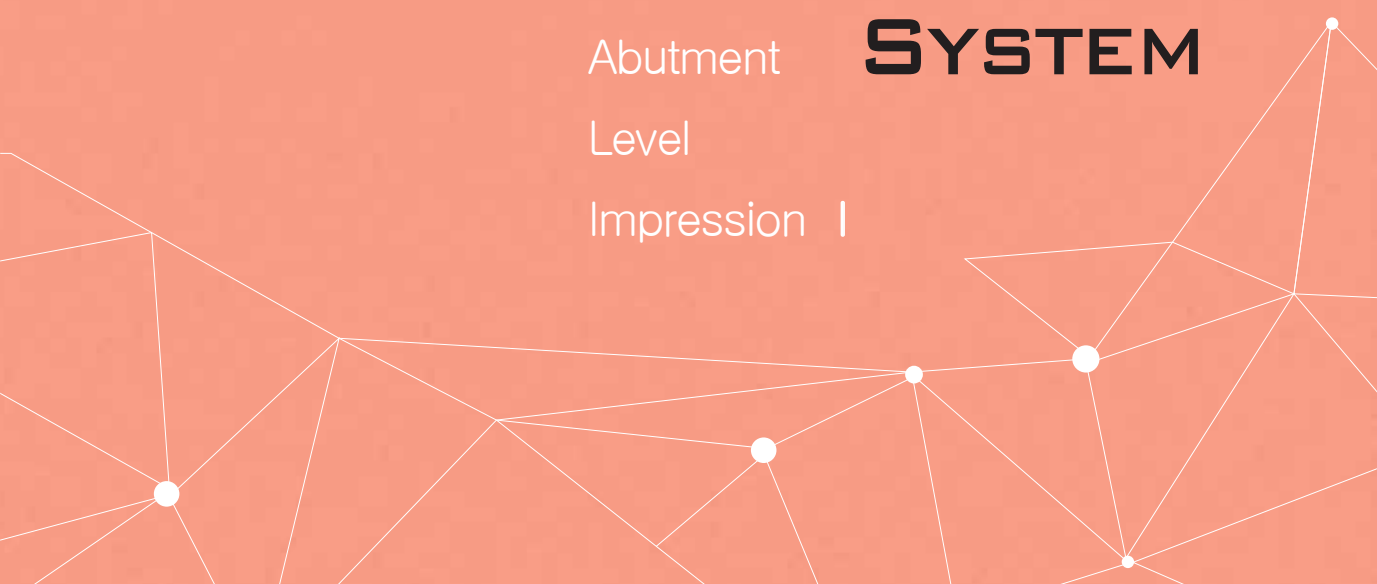
Octa
Abutment

Fixture

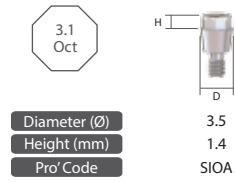


INTERNAL SYSTEM

Abutment
Level
Impression I



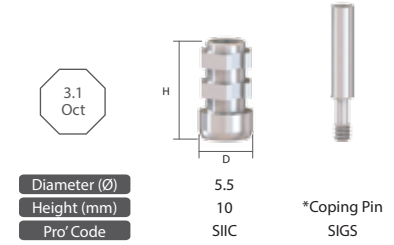
Octa Abutment



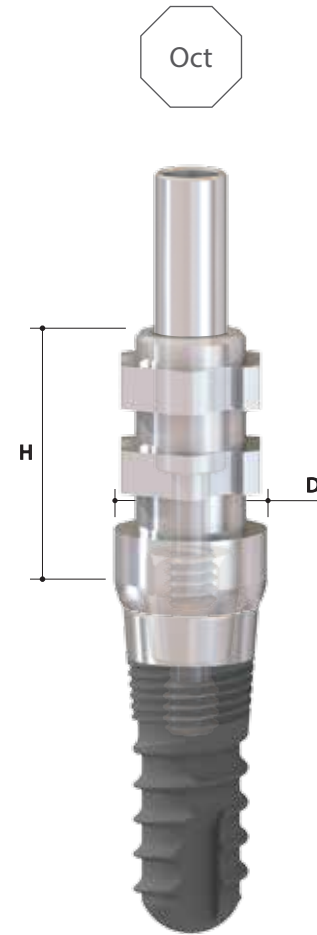
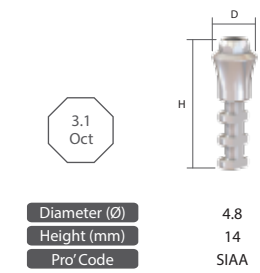
Torque : 30Ncm

Octa Abutment Impression Coping & Analogue

* Impression Coping

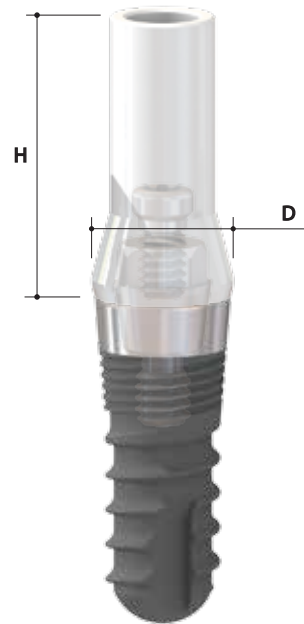
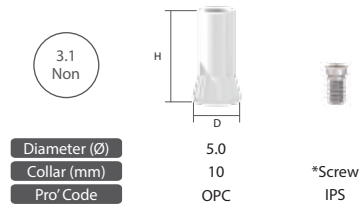
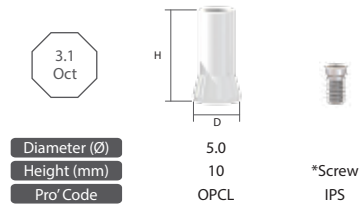


* Analogue



Torque : 30Ncm

Octa Abutment Plastic Cylinder



Torque : 30Ncm





INTERNAL SYSTEM

Abutment Level Impression II

Flowchart



Solid Plastic Cylinder



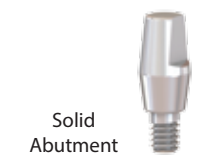
Solid Impression Cap

Solid Positioning Cylinder

Solid Abutment Analogue



Solid Protector Cap



Solid Abutment

Fixture

Solid Abutment & Protector Cap



* Solid Abutment

Diameter (Ø)	3.5	3.5	3.5
Height (mm)	4	5.5	7
Pro' Code	SIA40	SIA55	SIA70

* Protector Cap

Diameter (Ø)	5.1	5.1	5.1
Height (mm)	5.65	7.15	8.65
Pro' Code	SIA40C	SIA55C	SIA70C



Torque : 30Ncm

Impression Cap & Positioning Cylinder & Analogue

* Impression Cap

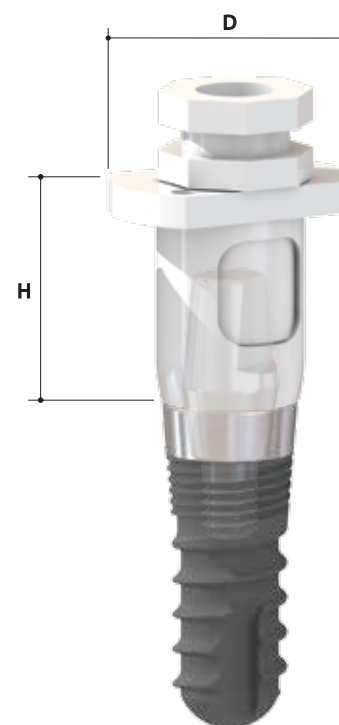
Diameter (Ø)	5.5
Height (mm)	8.25
Pro' Code	IC

* Positioning Cylinder

Diameter (Ø)	5.3
Height (mm)	9.2
Pro' Code	PC

* Analogue

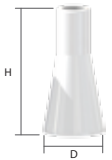



Diameter (Ø)	4.8	4.8	4.8
Height (mm)	4	5.5	7
Pro' Code	AAR40	AAR55	AAR70

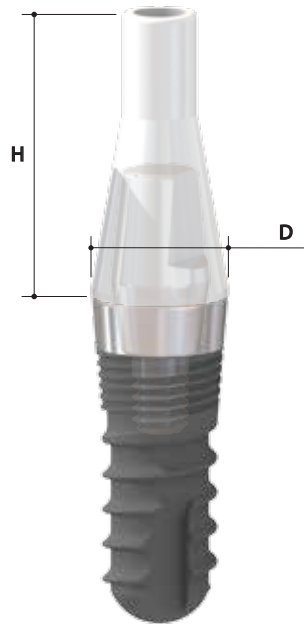


Torque : 30Ncm

Solid Plastic Cylinder

Non

3.1 Non		
Diameter (Ø)	5.7	5.7
Height (mm)	12	12
Pro' Code	SPCS	SPCB
Type	Single	Bridge
		



Torque : 30Ncm

CSM Implant



INTERNAL SYSTEM
Overdenture






Flowchart

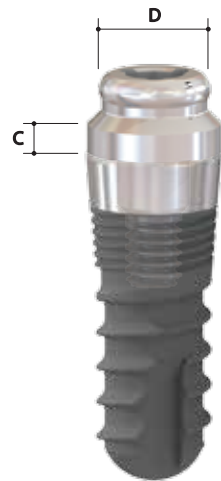


Fixture

Retainer Abutment



	IRA3907	IRA3910	IRA3920	IRA3930
				
Diameter (Ø)	3.9	3.9	3.9	3.9
Collar (mm)	0.7	1	2	3
Pro' Code	IRA3907	IRA3910	IRA3920	IRA3930



Torque : 30Ncm

Retainer Abutment System

* Retainer Cap

	
Diameter (Ø)	5.5
Height (mm)	2.4
Pro' Code	CSRC


* Retainer Retention Male

			
Retention Force	0.8 lbs	1.8 lbs	3.1 lbs
Pro' Code	CSR-P-Y	CSR-P-W	CSR-P-B

* Retainer Impression Plastic Male

	
Pro' Code	NCRBPM

* Retainer Impression Spacer

	
Pro' Code	CSRS

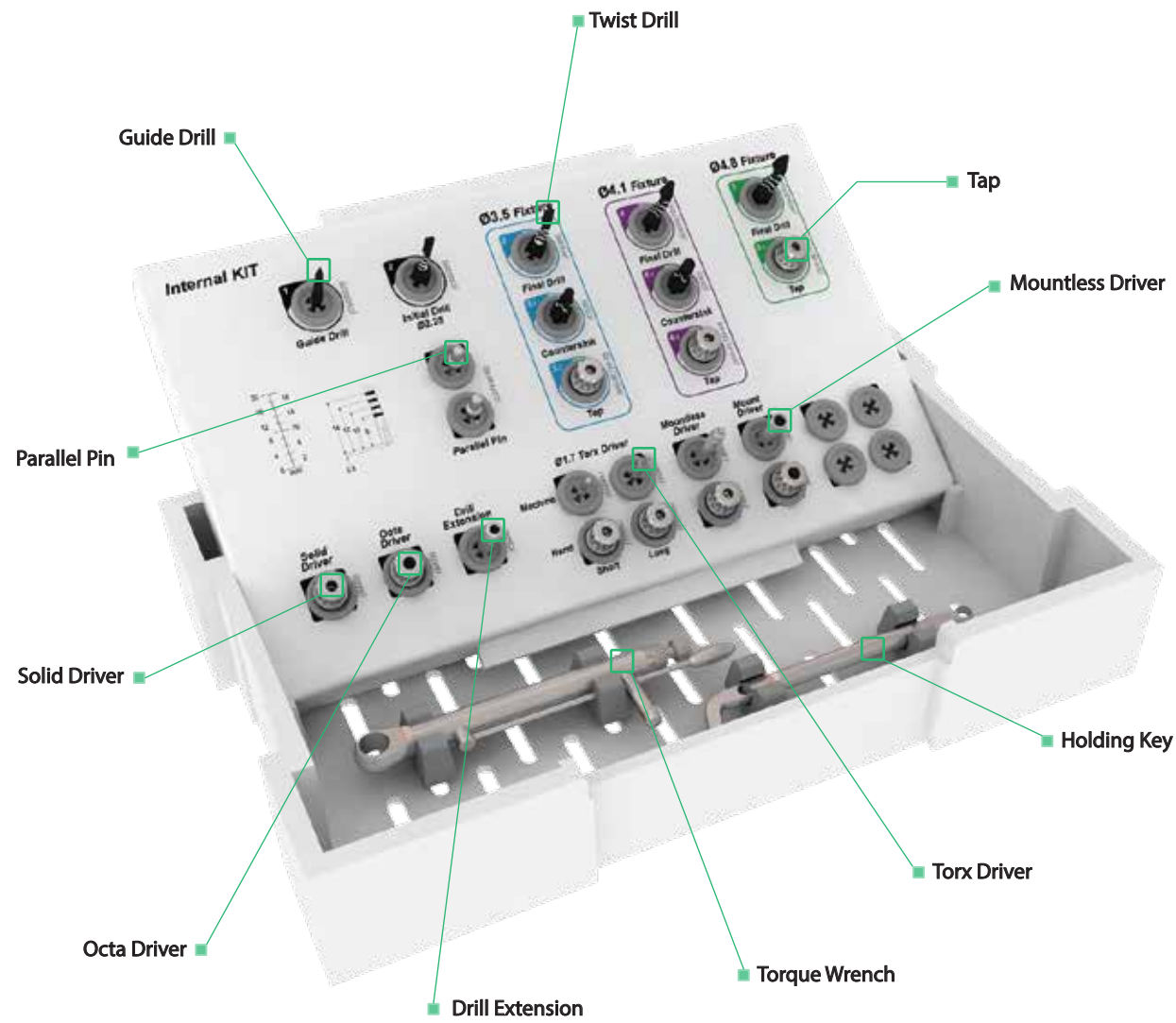
* Retainer Magic Tool

	
Pro' Code	RDIE

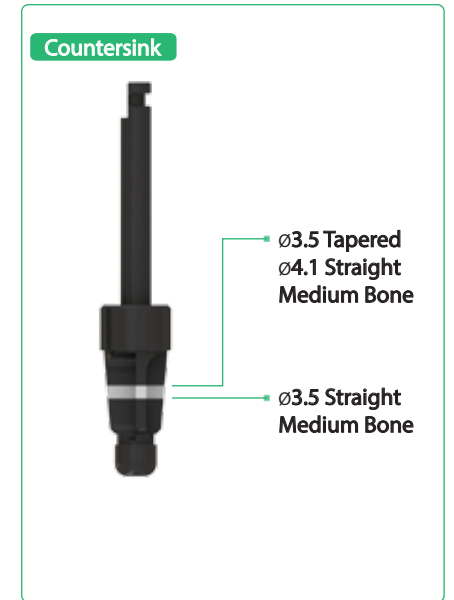
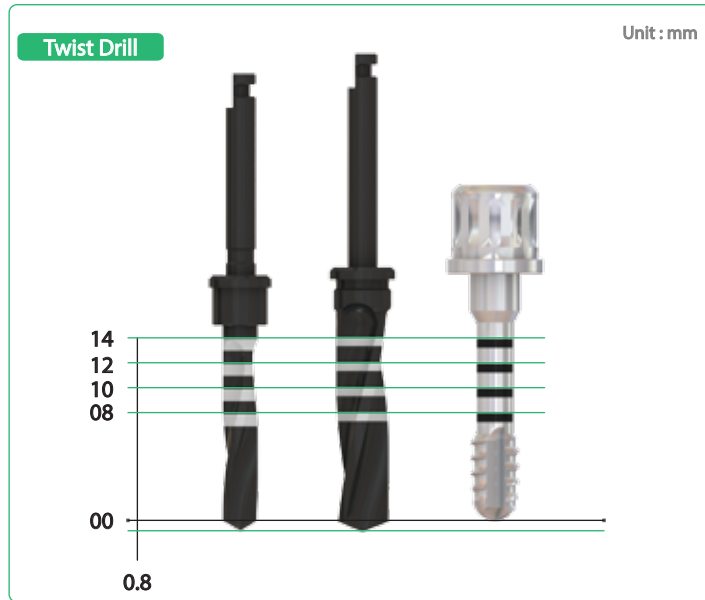
Internal Surgical KIT


















Component



Features



Component

No	Part Name	Picture	Diameter (Ø)	Length(mm)	Pro' Code
1	Guide Drill		2.25	34	CSGD225
2	Initial Drill		2.25	36	CSID225
3	Twist Drill		2.8	36	PFD28I
4	Countersink		3.5	30	CS35
5	Countersink		4.1	30	CS41
6	Twist Drill (Straight)		3.5	38	SFD35I
7	Twist Drill (Straight)		4.2	38	SFD42I
8	Tap (Straight)		3.5	27	SHI-35
9	Tap (Straight)		4.1	27	SHI-41
10	Tap (Straight)		4.8	27	SHI-48
11	Twist Drill (Tapered)		3.7	38	FD37I
12	Twist Drill (Tapered)		4.4	38	FD44I
13	Tap (Tapered)		3.5	27	THI-35
14	Tap (Tapered)		4.1	27	THI-41
15	Tap (Tapered)		4.8	27	THI-48

Component

No	Part Name	Picture	Type	Length(mm)	Pro' Code
16	Solid Driver		Hand	18	AADI
17	Octa Driver		Hand	19	BADI
18	Drill Extension		Machine	27	CSDE
19	Torx Driver		Machine (Short)	22	TDM08
20	Torx Driver		Machine (Long)	32	TDM18
21	Torx Driver		Hand (Short)	21	THD13
22	Torx Driver		Hand (Long)	26	THD18
23	Mountless Driver		Machine	32	I.MMDL
24	Mountless Driver		Hand	27	I.MLDL
25	Mount Driver		Machine	25	MDMI
26	Mount Driver		Hand	13	MDHI
27	Parallel Pin		Hand	26	CSPP2030
28	Holding Key		Hand	84	HKI
29	Torque Wrench		Hand	85	TWI/RWI

Instruction For USE

Internal Fixture User Guide

1. Product description

The CSM Implant System includes a various type and sizes of precision-machined fixtures manufactured from grade IV titanium. These implants are surgically inserted into the upper and/of lower jawbone and serve as a substitute or replacement tooth root providing a stable foundation for restorations.

2. Indications for Use

CSM Implant systems are designed for use in dental implant Surgery. A successfully Osseointegrated fixture will achieve a firm and direct connection between the living bone and the surface of the titanium fixture when surgically fixture under controlled conditions. There are intended for use in partially or fully edentulous mandibles and maxillae, to support for single or multiple-unit restorations such as cemented retained, screw retained, or over denture restorations, and terminal or intermediate abutment support for fixed bridgework.

3. Directions for Use

The surgical procedure should be done under aseptic condition with specifically designed sterile surgical instruments. The fixture provides precise placement of sterile threaded fixtures form package to preparation site. An electrical surgical drilling system with internal and external irrigation is recommended for drilling the surgical site. Specific drilling sequences for placement of fixtures should be followed (ref.catalogue). You should use the tap if it is a high density bone(D1,D2). When drilling with countersinks, pilot, depth gauges and finishing drills, use with in-and-out motion. The use of a surgical guide, a depth gauge and parallel pins, is recommended to aid in fixture placement. The fixture would be installed into the prepared site with the surgical ratchet or handpiece adapter to the attached placement head. Continue put the fixture into the site in a clockwise direction until fully seated.

Remove the placement head and place the cover screw to the top of the fixture. Close and suture the tissue flap.

4. Contraindications

CSM fixtures should not be placed in cases where the remaining jaw bone is too diminished to provide adequate width or height to surround the fixture. Lack of osseointegration or subsequent fixture failure may occur in cases where there is insufficient available bone, poor bone quality, poor oral hygiene, heavy smoking or tobacco abuse, or medical conditions such as blood disorders or uncontrolled diabetes. Lack of general contraindications associated with general surgery should be observed. Possible contraindications; Chronic bleeding problems; psychological impairment; metabolic bone or connective tissue diseases; treatment with corticosteroids; certain cardiac and vascular diseases; tobacco usage; diabetes (uncontrolled); treatment with chemotherapeutic agents; chronic renal diseases; poor patient oral hygiene bruxing; alcoholism. Relative contraindications; Systemic infection; local oral or respiratory infection.

Anatomical or pathological, contraindications; Insufficient alveolar bone width and height to surround the fixture with at least one millimeter of bone. Both buccally and lingually to the most superior aspect of the fixture placement would encroach of the mandibular canal; malignancies.

5. Warning

Fixture surgery and restoration involve complex dental procedures. For safe and effective use of CSM fixtures, it is strongly suggested that specialized training be undertaken since the surgical techniques required to place dental fixtures are highly specialized and complex procedures. Improper patient selection and technique can contribute to fixture failure and/or loss of supporting bone. CSM 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 and/or heat conductivity. Fixture mobility, one loss, or chronic infection may indicate fixture failure. If the fixture becomes contaminated by the patient's body fluids in any way, the fixture cannot be used in any other patient.

6. Sterilization and Handling

Sterile package containing the fixture, fixture mount and cover screw have been cleaned and sterilized by gamma irradiation and are ready to use. That should be opened onto a sterile field and handled with titanium instrumentation only. Do not re-sterilized. Do not use if package is opened, damaged, or expired. Discard open, unused product.

7. Caution

① Because all components are sterilized by gamma-radiation it should be used immediately after unpacking. Do not reuse.

② Especially in molar region, do not use a fixture alone, install at least 2 fixtures together. $\frac{6}{6} | \frac{6}{6}$

8. Precautions

Through screening of prospective fixture candidates must be performed. 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. 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 CSM fixtures.

■ This product is for dental surgery

■ Do not reuse

KIT Case & Instrument Maintenance

1. After operation, Immediately all the tools should be soaked in alcohol and removed bloodstain and any visible debris with a soft bristle brush.

*Before wash and sterilizing the Torque Wrench, Please disassemble the Wrench.

*Caution. Do not use hydrogen peroxide to prevent discoloration of Laser Marking and Coating.

2. The tools should be washed again with distilled water or running water.

3. Dry the tools completely with dry cloth or air.

4. Return the instruments to the appropriate locations in the surgical tray.

5. Sterilize with Autoclave and store the kit at room temperature. (temperature:132°C, duration : 15min, Steam pressure:1.5)

*Notes

The CSM surgical kit has a one year warranty and the maximum usage of the drills is 50 times.