

#### **CSM** Implant

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# 

Implant SYSTEM





Submerged IV Implant



Submerged III Implant



Submerged II Implant



Submerged Implant

# Apolonia Implant System SINCE 2000





#### **Fixture Features**



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## Fixture Line Up



#### **Connection & Select Guide**







# Package System

01	02	03	04
Check the size of fixture and pull out the product from the box.	Rip off the paper on plastic case and pull out the ampoule.	Hold plastic ampoule and rotate the cap to open.	Check inside of fixture.
05  4.0 x 1	06	07	08

Pull out mountless driver carefully after it firmly combined with fixture by moving mountless driver right and left direction in the fixture.





Use CSM torx driver and connect the screw and tighten coupling of the cover screw into the fixture.

KIT







				>	Fixture Level Impression	Impression Coping (Pick-up)	Impression Coping (Transfer)	Fixture Analogue	Temporary Abutment	Cementation Abutment	Angled Abutment	Milling         Abutment	UCLA	Cr-Co UCLA Abutment
Product Overview	Fixture	>	Cover Screw / Healing Abutment	>	Abutment Level Impression		Octa Abutment	Impression Coping (Pick-up)	Octa Abutment Analogue	Octa Protector Cap	Temporary Cylinder	Cementation Cylinder	Cr-Co UCLA Cylinder	
				>	Overdenture		Retainer Abutment	Impression Plastic Male	Impression Spacer	Retainer Cap		Retainer Retention Male		

## **Fixture**





2.5 Hex		L		
Diameter (Ø)	4.0	4.0	4.0	4.0
Length (mm)	08	10	12	14
Pro'Code	C5F4008WW	C5F4010WW	C5F4012WW	C5F4014WW

## **Fixture**





2.5 Hex	L			
Diameter (Ø)	4.8	4.8	4.8	4.8
Length (mm)	08	10	12	14
Pro'Code	C5F4808WW	C5F4810WW	C5F4812WW	C5F4814WW



**Cover Screw** 

Non

Hex

D

Torque : 5~10Ncm



# **Healing Abutment**

D





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## Flowchart

Abutment



Abutment



Abutment



UCLA

Cr-Co UCLA Abutment Abutment





Milling

Abutment



Fixture

## Impression Coping [Pick-up] Hex



Pro'Code

CIP6515

CIP6525

CIP6535

CIP6545

ICPPS-25

Impression Coping [Pick-up] Non-Hex



## Impression Coping [Transfer] Hex



## Impression Coping [Transfer] Non-Hex

н

c



# Fixture Analogue

Diameter (Ø) 3.5 Length(mm) 12 Pro'Code FA35-21







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c

## Temporary Abutment [Hex]



Torque : 20Ncm

Temporary Abutment [Non-Hex]

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Diameter (mm)

Collar (mm)

Pro' Code

6.5

1.5

CCEA6515

6.5

2.0

CCEA6520

6.5

2.5

CCEA6525

6.5

3.5

CCEA6535

\*Screw

AS20-25

#### Cementation Abutment [Non-Hex]

D

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c

Torque : 30Ncm









# Milling Abutment [Hex]



# Milling Abutment [Non-Hex]



Torque : 30Ncm

Torque : 30Ncm

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## 15° Angled Abutment [Hex]





15° Angled Abutment [Non-Hex]

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#### 20° Angled Abutment [Hex]





20° Angled Abutment [Non-Hex]





Torque : 30Ncm

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С





P 2.5 Non 5.5 5.5 5.5 5.5 Diameter (Ø) 1.5 Collar (mm) 2.5 3.5 4.5 \*Screw Pro' Code CAA551520N CAA552520N CAA553520N CAA554520N AS20-25

# 15° Angled Abutment Easy [Hex]



20° Angled Abutment Easy [Hex]





Torque : 30Ncm



Torque : 30Ncm

## **UCLA Abutment**





**Cr-Co UCLA Abutment** 



Torque : 30Ncm

Torque : 30Ncm

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## Flowchart









Fixture

# 

SYSTEM

Abutment Level

Impression

#### **Octa Abutment**





# 15° Octa Angeld Abutment





Torque : 30Ncm

## **Octa Abutment System**

\* Protector Cap

3.0 Non





#### \* Analogue



# Octa Abutment Temporary Cylinder



Torque : 20Ncm

D

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\*Screw

COAS

\*Screw

COAS

# Octa Abutment Cementation Cylinder



Octa Abutment Cr-Co UCLA Cylinder



Torque : 20Ncm

D

н

\*Screw COAS

Torque : 20Ncm

н



Overdenture **SYSTEM** 

## Flowchart









Retainer Abutment

Fixture

#### **Retainer Abutment**



#### **Retainer Abutment System**



Submerged III Surgical KIT



#### Component



#### **Features**







#### Component



#### **Instruction For USE**

#### 1. Product Description

The CSM Submerged III Implant System includes various one-stage fixtures and two-stage fixtures made of titanium. These implants are inserted into the upper and/or lower jawbone and served as a tooth root replacement providing a stable foundation for restorations.

#### 2. Precautions

Surgical technique for endosseous dental fixture implant requires special and complex procedures. Formal training for fixture placement is recommended.

Important : Determine local anatomy and suitability of the available bone for fixture placement. Thorough screening of prospective fixture must be performed. Panoramic and periapical radiograph for visual inspection are essential to determine anatomical landmarks, occlusal condition, periodontal status and adequacy of bone. Lateral cephalometric radiographs, computerized axial tomograghy and tomogram could be instructive. Appropriate radiography, direct palpation and visual inspection of the fixture site are necessary for planning or treatment prior to use fixtures.

#### 3. Directions for use

The surgical procedure should be done under aseptic condition with specially designed sterile surgical instruments. The sterilized implants have to be delivered precisely from package to preparation site. An electrical surgical drilling system with internal or external irrigation is recommended. Prescribed drilling sequences (Guide drill – Pre-final drill) or combination of surgical tools with 70Ncm torque power should be followed to make a hole in the jawbone and to place a fixture. In case of Hard Bone(D1) please use CSM D1 Drill or the drill of next diameter. Parallel Pin is used for measuring the direction and the depth of the hole. Fixture in the ampul should be placed up by using Mountless Driver and be planted into the bone. Handpiece or Ratchet Wrench is usable to plant. Insertion depth of CSM fixture shall be 0.2mm below than the bone level. When the fixture is fully seated, carefully remove Mountless Driver and place Cover Screw or Healing Abutment on the fixture. Then close tissue flap and suture it. The healing period will be 45~90days for lower jaw, 90~180days for upper jaw. (Don't lost balance in drilling work during operation)

#### 4. Usage and Storage

This product is disposable.
 It should not be reused.
 All the product package should be stored at low humidity and room temperature condition

#### 5. Caution

- Surgical Complications : Implant procedure has risks such as localized swelling, dehiscence, temporary pain, edema, hematoma or bleeding. Numbness of the lower lip and jaw after mandible surgery and tissue beside the nose after maxilla surgery is a possible side-effect. It is a temporary nature, though the numbness lasts permanently very rarely. Gingival-mucosal (gum tissue) ulceration, tissue reaction, or infection may occur but it generally responds to local care.

• After the procedure of implant treatment could be found swollenness of a specific part, rupture, temporary palpate sensitiveness, an edema, hematoma, bleeding.

Insensibility of lower jaw and lip, some side effects relating around the nose from maxillary sinus treatment may occur that is mostly temporary but
rarely permanent paralysis could appear.

Contraindications : Fixture should not be placed in case where the remaining jaw bone is too diminished to provide adequate width and height to surround the implant. Lack of osseointegration or subsequent implant failure may occur in cases insufficient bone available, poor bone quality, poor oral hygiene, heavy smoking, or under medical conditions such as blood disorders, infected HIV virus or uncontrolled diabetes.

• Warnings (Wornings for possible side effects from the usage of medical devices) : As fixture surgery and dental restoration involve complex surgical procedures, for safe and effective use of fixtures, specialized training is strongly suggested. Improper patient selection and technique can cause the fixture failure and/or loss of supporting bone. Wobble of fixture, bone loss, or chronic infection may cause fixture failure. If the fixture becomes contaminated by the patient's body fluids in any way, the fixture facture fixed in other patient. Do not splint or bridge with natural tooth. Excessive force on the fixture will cause metal fatique and can cause fixture facture. Single stand or by fixtures are recommended.

 Interaction : Dental fixtures are designed only for its use and must not be altered and converted in any way. The use of electro-surgical or laser surgical instruments around metallic fixtures and their abutments is not recommended due to the risk of electric shock and/or heat burn.
 Usage for the aged or a pregnant woman : The aged, a pregnant woman, growth phase, an obese patient or a patient who had other case history shall be considered to perform an operation.

•Warnings for application : A surgeon shall be followed instruction of the procedure for high success rate of implant surgery. Advert to not damage on nerves, diagnose concavity on lingual side of the submaxillary bone for preventing perforation of the submaxillary bone. Do not put over torque for preventing bone crack.

- Caution of safety accidents : Take any possible stuffs away as combustibility materials or unsterilization devices from a patient and a surgeon.

#### Suitable location

Use the fixtures as [Ø3.6], [Ø4.0] for incisor(1,2,3) or premolar(4), [Ø4.4], [Ø4.8] for premolar(5) or molar(6,7).

#### Package Check/Management

• CSM Fixtures are sterilized with gamma radiation. If the sterilized package are/were damaged or opened, please do not use the products. • Do not use the product after the expiry date written on the package.

· Unpacked product by users cannot be returned to the manufacturer or distributor.

Manufacturer or distributor has no responsibility of any following matters for the products re-sterilized by users.

#### **KIT Case & Instrument Maintenance**

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.



