

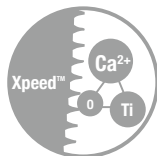
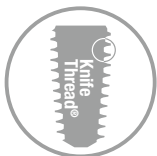
ANOTHER MASTERPIECE

# ANYRIDGE<sup>®</sup> OCTA1

by MEGA'GEN



MegaGen never stops developing....  
the AnyRidge way



# What is the **AnyRidge** way?

## **For clinicians...**

less invasive, fast,  
simple, predictable,  
& esthetically  
superior implant  
treatment

## **AnyRidge – a new design standard on the global stage**

Launched in 2009 as a biologically-inspired implant concept,  
AnyRidge consistently surpasses clinical benchmarks

Realising the  
**ONE-DAY Implant™**

**For patients...**  
strong new  
esthetic &  
functional teeth via  
painless & rapid  
treatment

## ***AnyRidge does it right!***

AnyRidge goes FAR BEYOND standard expectations of dental implants...

The key benefits of AnyRidge implants become evident when considering immediate loading...

With the new loading protocol developed based on clinical results with AnyRidge, your patients have new smiles faster than ever....

- Guaranteed excellent stability, even with compromised bone density
- Less reduction & more preservation of cortical bone
- Wider implant possibilities than crestal width
- Clinically proven safety
- Faster & stronger osseointegration
- Esthetic design & varied abutment selection
- Super implant-prosthetic connection
- Innovative R2GATE software for completing implant & prosthesis in ONE DAY

*AnyRidge*

***Have you made the PARADIGM SHIFT yet?  
Do it the AnyRidge Way!***

# CONTENTS

	02	<b>AnyRidge Philosophy</b>
	05	<b>Characteristics &amp; Advantages</b>
	05	I. Features & benefits
	06	II. Biologically-inspired design
	09	III. Strong & predictable material
	10	IV. Surface
	12	V. Click-in connection
	13	VI. Esthetic design & choice of abutments
	14	VII. Optimized digital workflow for ONE-DAY Implant™
	15	VIII. Convenient surgical kit
<b>Fixture Product &amp; Packaging</b>	16	
I. Fixture dimensions	16	
II. Fixture sizes	17	
III. Packaging	19	
	20	<b>Cover Screw &amp; Healing Abutments</b>
<b>Abutment &amp; Prosthetic Options</b>	21	
I. Fixture-level prostheses	21	
II. Abutment-level prostheses	29	
III. Overdenture Prosthesis	43	
	58	<b>AnyRidge Octa 1 Kit</b>
	58	I. Surgical kit (standard / full)
	68	II. Prosthetic kit
	70	III. Bone Profiler kit
	71	IV. Optional Components
	74	<b>Digital Dentistry</b>
I. MegaGen Digital WorkFlow	74	
II. R2GATE®	76	
III. R2GATE Guide™	78	
IV. R2GATE Universal Kit	80	
V. Digital materials & equipment	88	
VI. R2GATE® order process	96	
	98	<b>Clinical Cases</b>



*Making Life simple...*



# Characteristics & Advantages

## I. Features & benefits

# Making life simple...

the AnyRidge way

## ANYRIDGE® OCTA1

Making life simple...

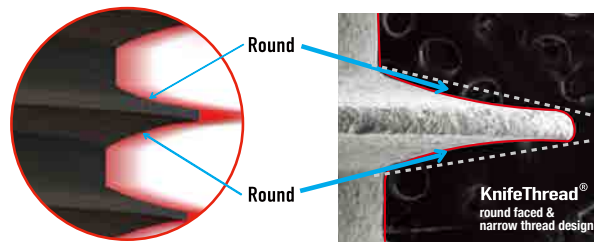


# II. Biologically-inspired design

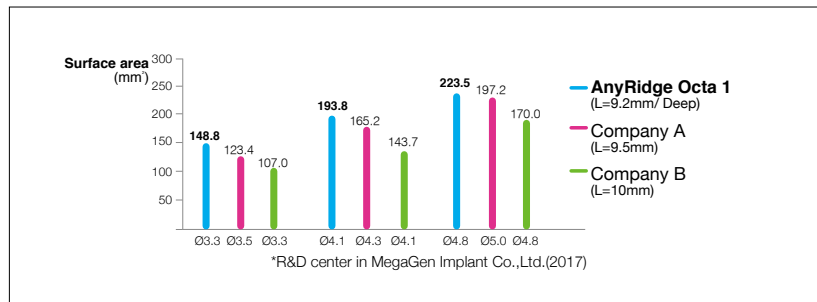
## KnifeThread® guarantees sustained implant stability

Thanks to MegaGen's unique KnifeThread® and super self-tapping design, better initial stability can be attained in any compromised bone situation. The design enables bone condensing, gentle ridge expansion, maximized compressive force resistance, and minimized shear force production.

1. Stable dispersion of stress with buttress thread shape
2. Easier insertion with sharp thread shape
3. Increased surface area of round side compared with straight side



- ✓ Excellent initial stability
- ✓ Extraordinary BIC
- ✓ Special cutting efficiency during insertion
- ✓ High resistance to compressive force
- ✓ Minimized occurrence of shear force
- ✓ Maximized surface area



## The large inter-thread area supports angiogenesis & sustained blood supply

KnifeThread design of AnyRidge Octa 1 implant creates maximum space for blood supply



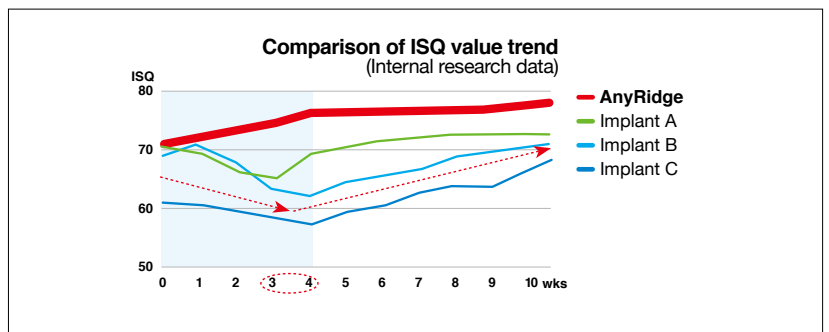
[AnyRidge Octa 1]



Adequate space for angiogenesis & blood supply

**Final prosthetics in ONLY 4 weeks**

- \* Immediate loading of tapered implants placed in postextraction sockets and healed Sites J Craniofac Surg 2016; 00: 00–00
- \* Implant Stability in the Posterior Maxilla: A Controlled Clinical Trial BioMed Research International Article ID 6825213



**Two simple options for better initial stability**

\* Same core diameter, different thread depths

- **Regular Thread** for hard bone  
Easy & simple placement
- **Deep Thread** for soft/compromised bone  
Extended thread design provides stronger initial stability



	Fixture Diameter				
	Ø3.3	Ø3.7	Ø4.1	Ø4.4	Ø4.8
Regular Thread					
Thread depth	0.4	0.4	0.45	0.45	0.4
Deep Thread					
Thread depth	0.6	0.6	0.65	0.6	0.65

## Crestal bone preservation for better long-term esthetics

### Maximum preservation of cortical bone

- \* More cortical bone
- = more soft tissue volume
- = beautiful gingival line

No dependence on cortical bone for initial stability; decreased stress on cortical bone helps to prevent bone resorption after implantation

Advanced coronal design allows maximum cortical bone preservation around implants  
Beyond osseointegration, AnyRidge Octa 1 assures beautiful gingival line by preserving & maintaining more cortical bone

### Taper design

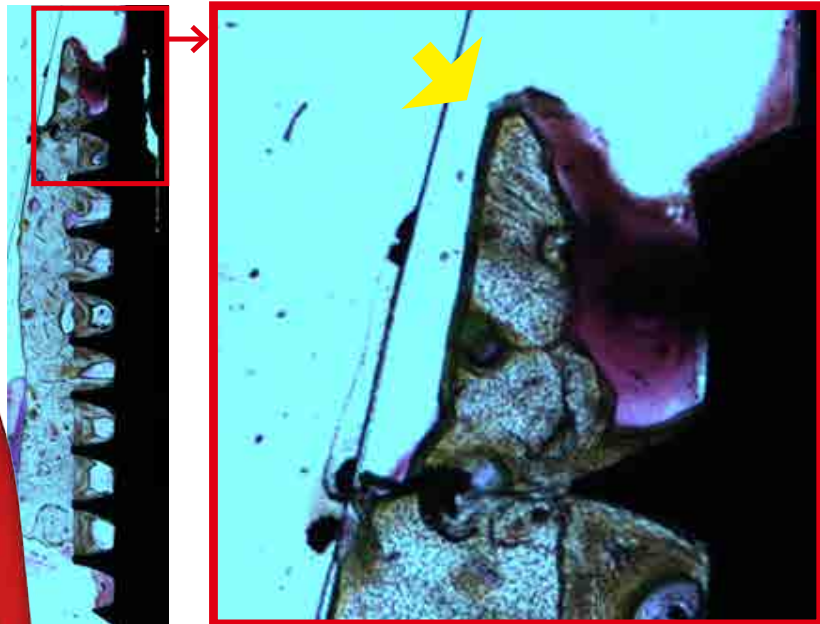
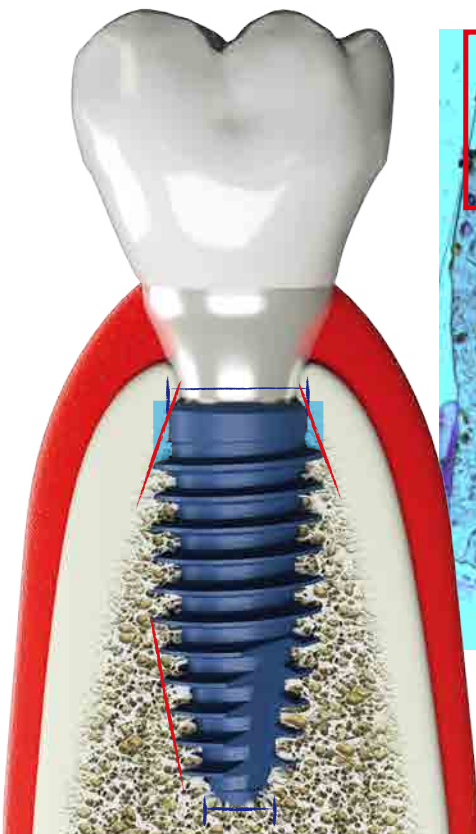
Easy to place & guarantees excellent initial stability

### Wider fixture in narrow crest

Maximizes long-term fixture survival

### Narrow core diameter

For soft bone, a wider fixture in a small osteotomy socket is important to preserve the marginal hard & soft tissues



#### • Human Biopsy (2.5 yrs after placement)

Sharp & high alveolar crest (yellow arrow) is maintained thanks to biologically-inspired implant design

Maintenance of alveolar bone means peri-implant marginal gingiva shows almost no recession at 2.5 years follow-up, even with limited ridge width



# III. Strong & predictable material

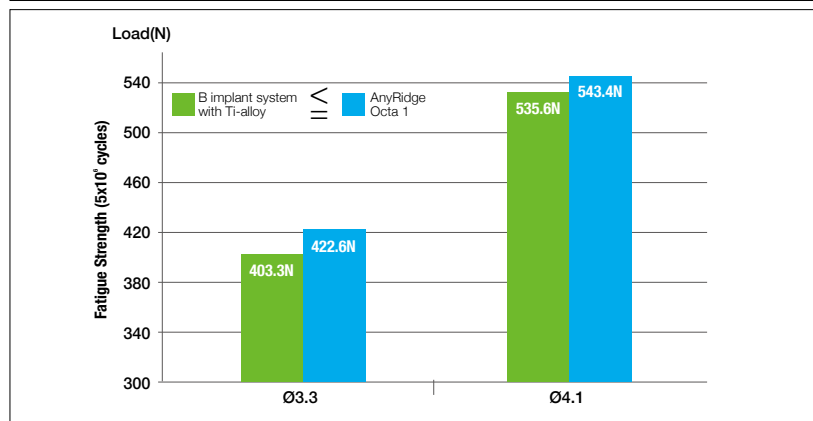
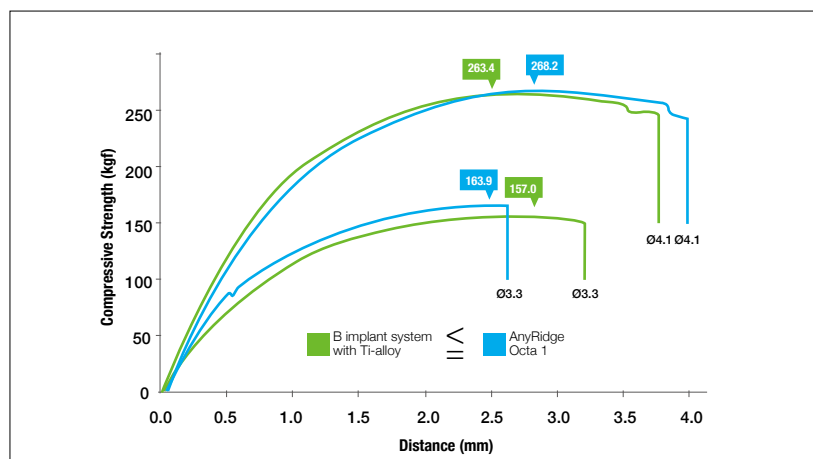
## Higher compressive & fatigue strength with long-term biological stability

AnyRidge Octa1 fixtures are made of pure cold-worked medical-grade 4 titanium to ensure high compressive & fatigue strength for long-term biological stability

The overall strength of the implant system has been improved by optimizing (i) the thickness and external shape of the fixture and abutment, (ii) the contact area between the fixture and the abutment, (iii) the abutment screw design and diameter, and (iv) the choice of titanium material.

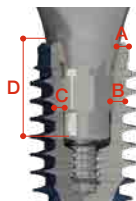
### Stronger than a strong implant

Clinical evidence over 20 years consistently supports the biocompatibility & long-term success of pure titanium implants. The morphology of the AnyRidge Octa1 implant in conjunction with Ti grade 4 has shown a higher compressive & fatigue strength than B implant system with Ti-alloy.



\* Correlation between material & product strength under static & fatigue loads / Authors / JS Im, SI Yeo, KO Park, JH Lee, TY Kwon Korean J Dent Mater 45(1): 77-88, 2018

### Wider parallel-wall thickness & contact area of fixture & abutment connection



More resistant to fracture than most other implant systems.

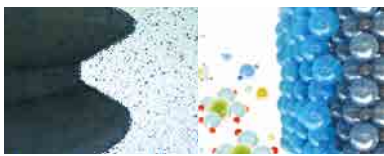
	Company A Ø4.3	Company B Ø4.1	AnyRidge Octa 1 Ø4.1
A	0.24	0.41	0.41
B(Edge)	0.37	0.39	0.43
C(Plan)	0.52	0.51	0.53
D(Depth)	2.10	4.40	4.40

\*R&D Center, MegaGen Implant Co.,Ltd.(2018)

# IV. Surface

## Over 10 years of clinically proven excellent, rapid, & long-lasting osseointegration

The AnyRidge Octa1 surface treatment is XPEED®. Pure Grade 4 Titanium implants are treated with S-L-A and then a unique process that incorporates calcium ions creating a CaTiO3 nanostructure that activates osteoblasts.



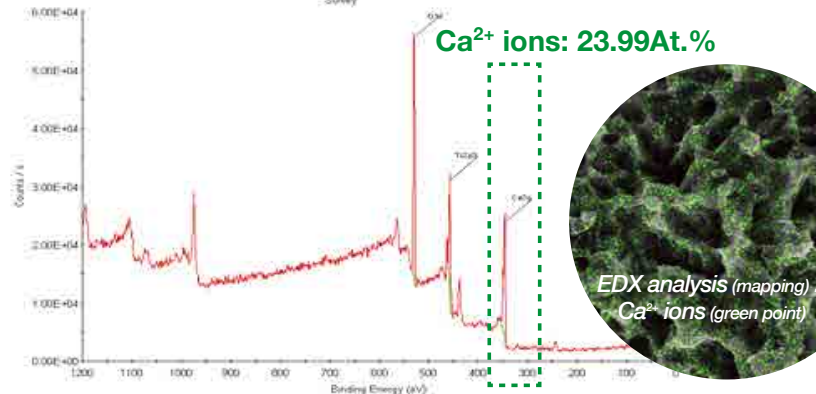
- Large amounts of cations are created on implant surface due to Ca<sup>2+</sup>
- PO4<sup>3-</sup> ions adhere to Ca<sup>2+</sup>-rich layer, then Ca<sup>2+</sup> re-adheres to PO4<sup>3-</sup> layer
- This increased apatite layer accelerates mineralization to create hydroxyapatite

### Ca<sup>2+</sup> ions

Study showed larger amount of new bone formation on calcium-ion-implanted titanium compared to titanium at 2 days after implantation in rat tibia

Amount of hydroxyl radical on calcium-ion-implanted titanium and point of zero charge of constituent oxide of the surface-modified layer  
 T. HANAWA<sup>\*,</sup> M. KON<sup>\*,</sup> H. DOI<sup>\*,</sup> H. UKAI<sup>\*,</sup> K. MURAKAMI<sup>\*,</sup> H. HAMANAKA<sup>\*,</sup> K. ASAOKA<sup>\*,</sup>

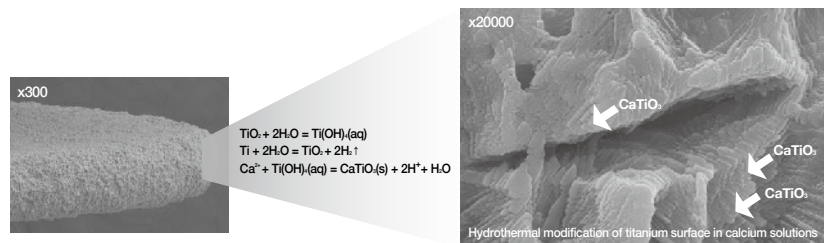
### XPS analysis



### CaTiO3 Nano-structure

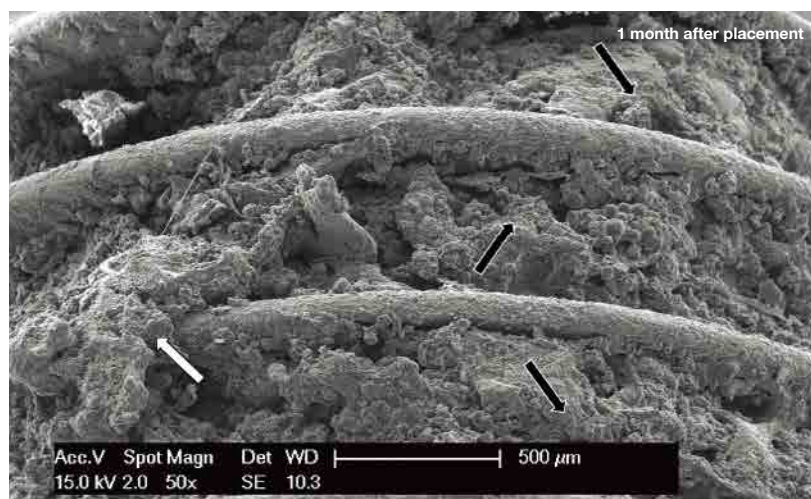
CaTiO3 has been shown to increase osseointegration with adjacent bone, thereby increasing implant stability

Increased osteoblast adhesion on titanium-coated hydroxylapatite that forms CaTiO3. Webster TJ, Ergun C, Doremus RH, Lanford WA.



## Clinically proven

Histological studies in animals and humans consistently show rapid bone cell proliferation and long-term stability thanks to Xpeed's unique properties.

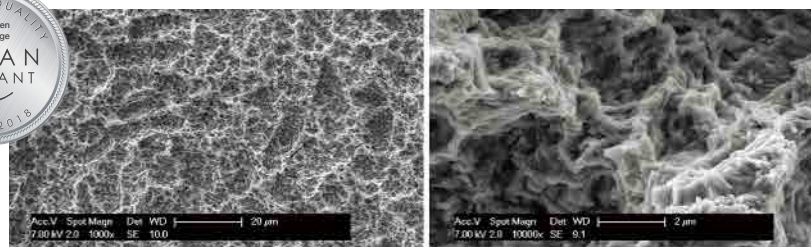


\*Scanning Electron Microscope (SEM) Evaluation of Interface between Nanostructured Calcium-Incorporated Dental Implant Surface and Human Bone / Francesco Mangano / Materials (Basel), 2017 Dec; 10(12): 1438

Voids among threads are entirely occupied by growing bone tissue (black arrows): new bone covering entire fixture confirms early osseointegration process. On left, bone patch crosses metal ridges (white arrow).

## Blue surface guarantees safety

- **100% acid-residue-free surface**  
XPEED® process neutralizes any potential acid residue on S-L-A surface and is visible indication of cleanliness
- **Homogenous roughness value of Ra 1.8-2.5μm over whole fixture** guarantees more uniform bone growth



SEM photos show specimen is perfectly clean & devoid of any contamination

# V. Click-in connection

## Accurate positioning & excellent prosthetic connection

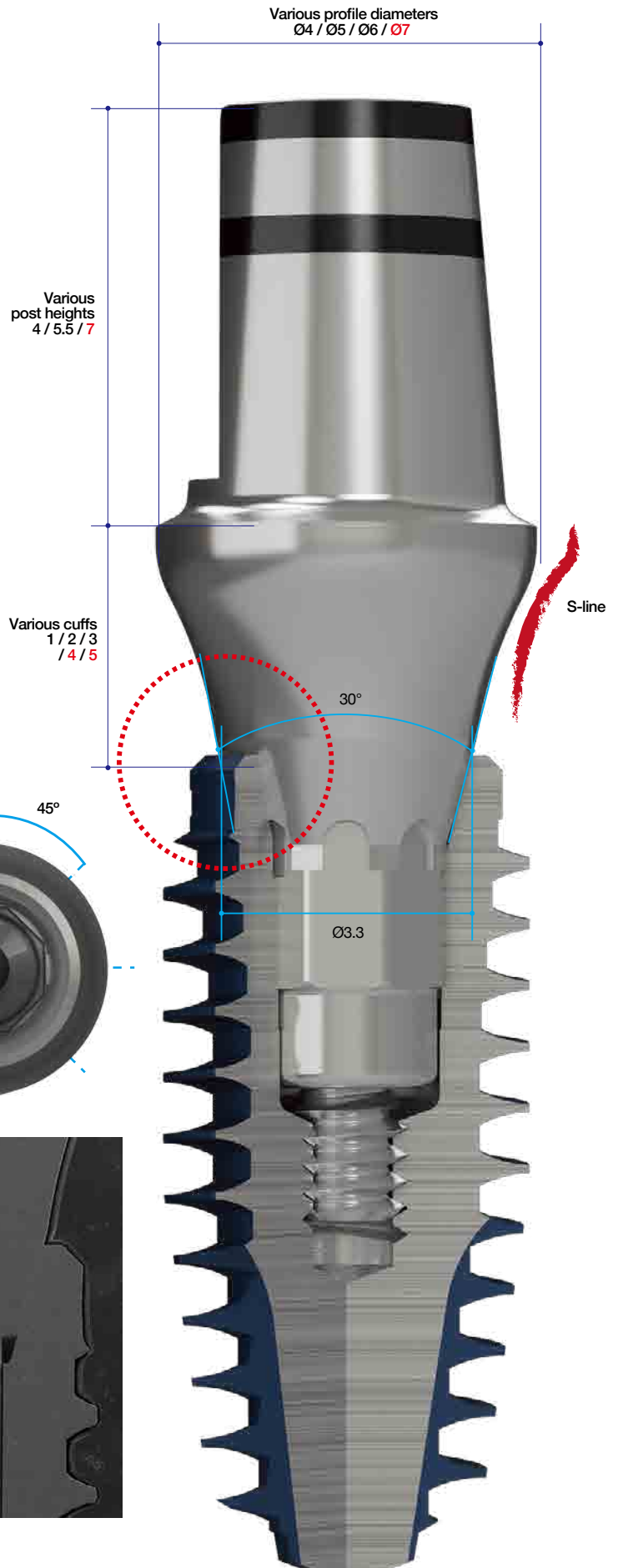
Long-term mechanical stability & minimized biologic width



### Feel the X-FIT™ moment!

AnyRidge Octa1 has a unique X-FIT™ connection with a 15° internal conical connection & double-fastened internal structure creating a keystone arch & octa combination

- **AnyRidge Octa 1 indexed prosthetics CLICK into place**  
8 possible prosthetic positions facilitate more precise positioning on angled abutments  
AnyRidge Octa 1 prosthetics are easily tightened when engaged with a CLICK!
- **Hermetic seal & long-term mechanical stability**  
Helping to maintain healthy crestal bone
- **AnyRidge Octa 1 connection & prosthetic option**  
offers excellent solution for multi-unit restorations



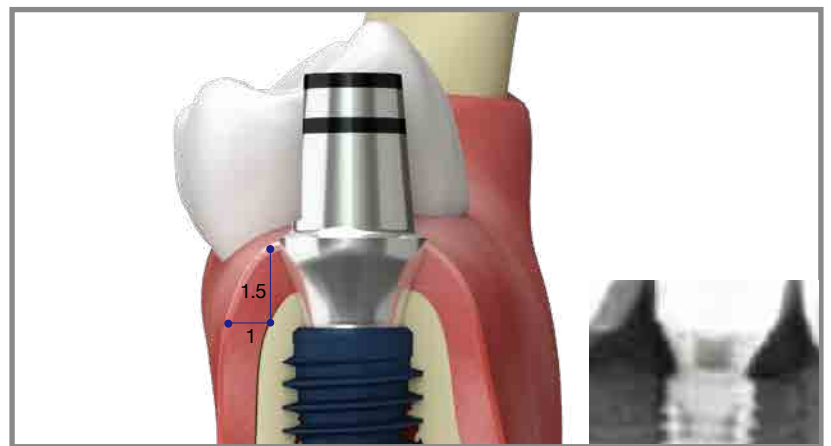


# VI. Esthetic design & choice of abutments

Functional abutment design for excellent soft tissue response & a prosthetic solution for every indication

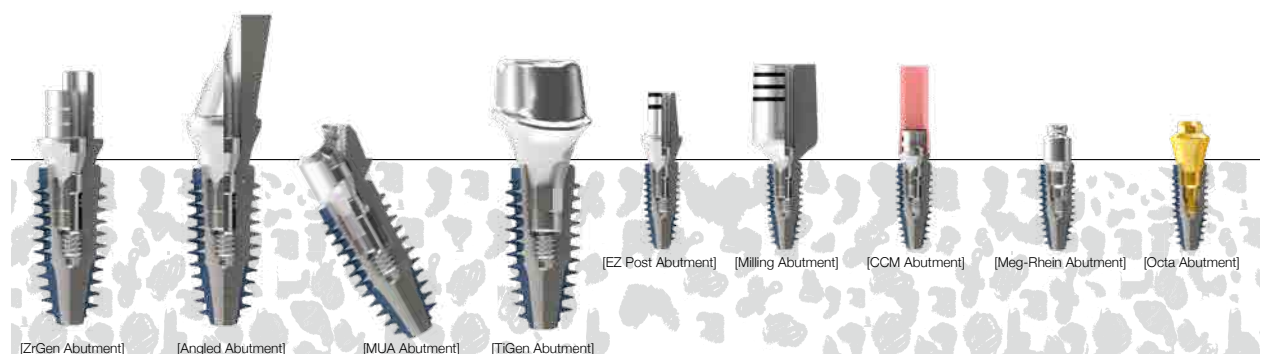
## Biologic S-line

A better peri-implant biotype & better emergence profile are assured due to a double offset structure incorporating a thread-less collar on the fixture and S-line cuff design on the prosthetics



## Broad prosthetic line-up from conventional to digital restorations

Every case, every shape, every size...everything has been considered to satisfy every clinical need



# VII. Optimized digital workflow for ONE-DAY Implant™

**AnyRidge Octa1 + R2GATE™: implant guided surgery at its best! When virtual planning becomes reality**

## Top-down treatment planning

Integrating all information required for prosthesis-driven (top-down) implant positioning  
Prosthetic design / skeletal information / gingival form / occlusal relationship

## Digital EYE™ (Bone)

- Although a CBCT uses 256 shades of grey, the human eye can only detect 16 (6%)
- Digital EYE converts the CBCT grey scale into full color with a standardized brightness, allowing intuitive analysis of the bone condition
- Treatment planning can then perfectly position the implant, determine the ideal drilling sequence, and predict the initial stability for immediate loading (ONE-DAY implant™)



## STL (soft tissue & teeth)

R2GATE merges a 3D model scan or impression STL with a CBCT file to eliminate problems of metal scattering & distortion

## R2GATE Guide™

- 3D-printed surgical guide based on accurate treatment plan
- Combines implant position guide, drill stopper, and hex control
- No need for metal sleeves or spoons











⇒Refer to Page.74 for more information on digital dentistry

# VIII. Convenient surgical kit

## Simple & intuitive drilling sequence

AnyRidge Octa 1 fixtures achieve optimum initial stability when used with a guided drilling sequence

### AnyRidge Octa 1 surgical kit

	Lance	Shaping drills						Cortical Bone drills				Tap drills			
		Ø2.5	Ø2.9	Ø3.3	Ø3.6	Ø3.9	Ø4.3								
															
rpm max	800	800	600	600	500	500	400	300				15			



Stopper drills



Flattening drill

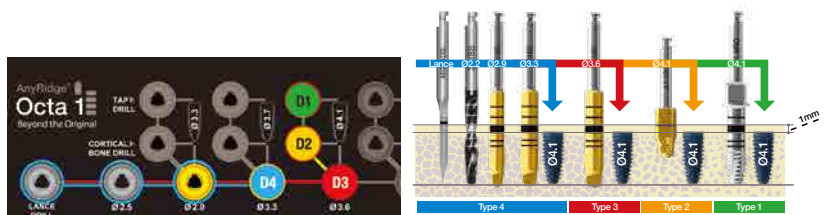


### Clear drilling protocols according to fixture diameter & bone density

⇒Refer to Page.60 for more information on drilling protocol

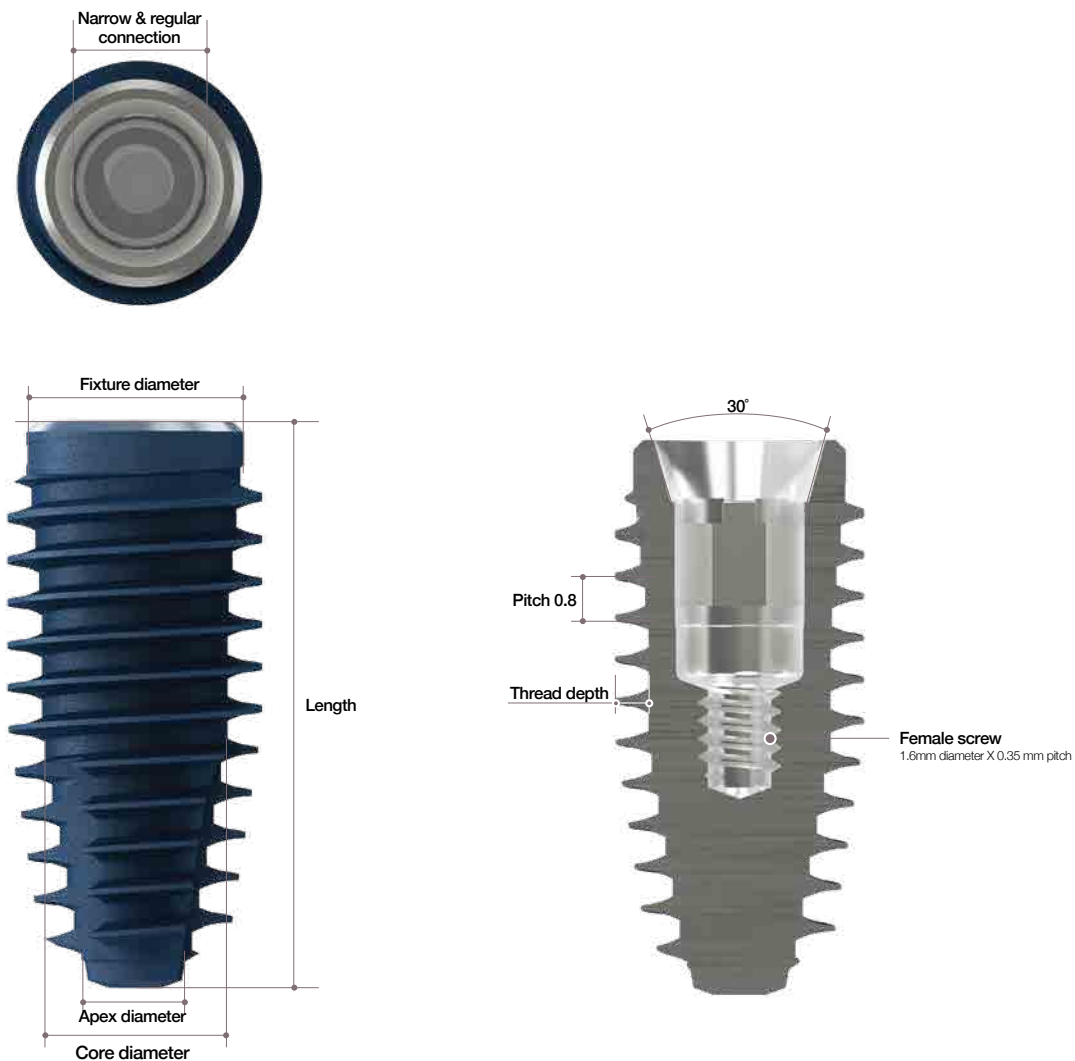
- ① Check fixture diameter to be inserted, colored rings indicate line-up of drills suitable for each fixture diameter
- ② Drilling sequence for each bone type is identified by color D3: red / D2: yellow / D1: green / D4: drill to previous stage of D3
- ③ If bone density or initial stability is not good enough, place a deep thread fixture with the same diameter & length as a normal thread implant using the same drill sequence

E.g. Drilling sequence: Ø4.1 normal thread & deep-thread fixture



# Fixture Product & Packaging

## I. Fixture dimensions



### Normal & Deep Threads

Fixture Diameter	Apex Diameter		Core Diameter	Thread Depth		Length(mm)	Connection Diameter
	(Normal Thread)	(Deep Thread)		(Normal Thread)	(Deep Thread)		
Ø3.3	Ø2.1	Ø2.5	Ø2.8	0.4	0.6	7 / 7.7 / 9.2 / 10.7 / 12.2 / 14.2 / 17.2	Ø2.8
Ø3.7	Ø2.5	Ø2.9	Ø3.2	0.4	0.6		Ø2.8
Ø4.1	Ø2.9	Ø3.3	Ø3.5	0.45	0.65		Ø3.3
Ø4.4	Ø3.1	Ø3.5	Ø3.8	0.45	0.6		Ø3.3
Ø4.8	Ø3.3	Ø3.7	Ø4.2	0.4	0.65		Ø3.3



## II. Fixture sizes (Continued)

### NC Ø3.3

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø3.3	NC	7	ARO3307C
		8.5	ARO3308C
		10	ARO3310C
		11.5	ARO3311C
		13	ARO3313C
		15	ARO3315C
		18	ARO3318C



### NC Ø3.7

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø3.7	NC	7	ARO3707C
		8.5	ARO3708C
		10	ARO3710C
		11.5	ARO3711C
		13	ARO3713C
		15	ARO3715C
		18	ARO3718C



### RC Ø4.1

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø4.1	RC	7	ARO4107C
		8.5	ARO4108C
		10	ARO4110C
		11.5	ARO4111C
		13	ARO4113C
		15	ARO4115C
		18	ARO4118C



### RC Ø4.4

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø4.4	RC	7	ARO4407C
		8.5	ARO4408C
		10	ARO4410C
		11.5	ARO4411C
		13	ARO4413C
		15	ARO4415C
		18	ARO4418C



### RC Ø4.8

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø4.8	RC	7	ARO4807C
		8.5	ARO4808C
		10	ARO4810C
		11.5	ARO4811C
		13	ARO4813C
		15	ARO4815C
		18	ARO4818C



## ☉ Fixture sizes

### NC Ø3.3 Deep Thread

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø3.3	NC	7	ARO3307DC
		8.5	ARO3308DC
		10	ARO3310DC
		11.5	ARO3311DC
		13	ARO3313DC
		15	ARO3315DC
		18	ARO3318DC



### NC Ø3.7 Deep Thread

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø3.7	NC	7	ARO3707DC
		8.5	ARO3708DC
		10	ARO3710DC
		11.5	ARO3711DC
		13	ARO3713DC
		15	ARO3715DC
		18	ARO3718DC



### RC Ø4.1 Deep Thread

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø4.1	RC	7	ARO4107DC
		8.5	ARO4108DC
		10	ARO4110DC
		11.5	ARO4111DC
		13	ARO4113DC
		15	ARO4115DC
		18	ARO4118DC



### RC Ø4.4 Deep Thread

- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø4.4	RC	7	ARO4407DC
		8.5	ARO4408DC
		10	ARO4410DC
		11.5	ARO4411DC
		13	ARO4413DC
		15	ARO4415DC
		18	ARO4418DC



### RC Ø4.8 Deep Thread

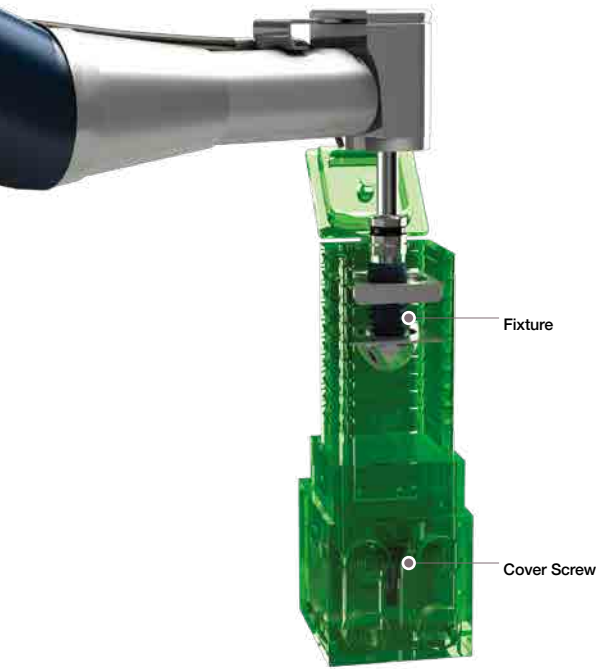
- Cover Screw included

Fixture Diameter	Connection	Length (mm)	Ref.C
Ø4.8	RC	7	ARO4807DC
		8.5	ARO4808DC
		10	ARO4810DC
		11.5	ARO4811DC
		13	ARO4813DC
		15	ARO4815DC
		18	ARO4818DC

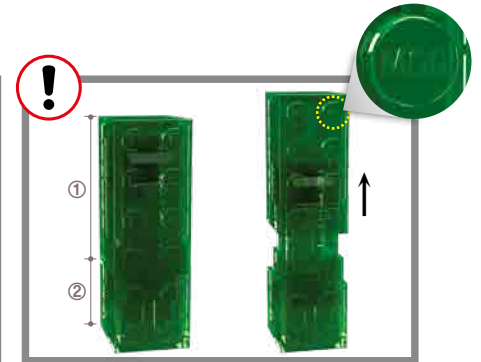


# III. Packaging

- Ampule



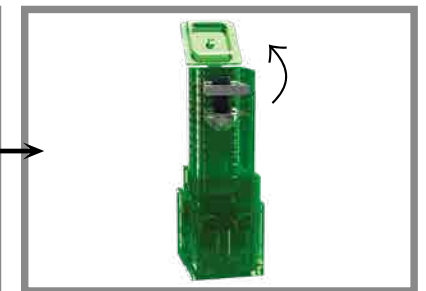
Peel off cover & remove ampule



Separate top<sup>1</sup> & bottom<sup>2</sup>, as shown, to reveal inner ampule with fixture



Flip open top to reveal fixture



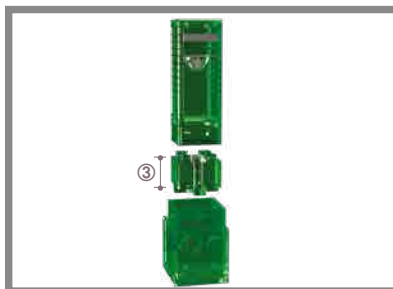
Connect handpiece to fixture



Make sure fixture is fully connected, then remove from ampule



Place fixture according to drilling sequence



Separate fixture ampule from bottom, as shown, to reveal cover screw holder<sup>3</sup>



Use hand driver to pick up cover screw



Tighten cover screw to fixture


MegaGen ampule! Re-usable as building block \*after cleaning and sterilization! less plastic waste!

# Cover Screws & Healing Abutments

## Cover Screws

\* Included in fixture packaging


- Used for submerged-type surgery
- Protects inner structure of fixture
- Different heights can be chosen according to position of fixture below crest
- 1mm & Umbrella-type(Wide Dia.) Cover Screw can be purchased separately
- Recommended torque: by hand (5 - 8Ncm)
- Use with Hand Driver(1.2 Hex)



**NC**

Diameter	Height (mm)	Ref.C
Ø3.0	0.5	AROCSN3005
Ø3.0	1.0	*AROCSN3010
Ø5.0	0.5	*AROCSN5005

(\*) Separate sales item



**RC**

Diameter	Height (mm)	Ref.C
Ø3.7	0.5	AROCSR3705
Ø3.7	1.0	*AROCSR3710
Ø6.0	0.5	*AROCSR6005

(\*) Separate sales item

## Umbrella Cover Screw



Umbrella Cover Screw prevents implant from falling into the maxillary sinus  
Suitable for simple GBR surgery



Use with Hand Driver

## Healing Abutments

- Used for non-submerged-type surgery or two-stage surgery
- Choose appropriate diameter & height according to situation
- Helps to form suitable emergence profile during period of gingival healing
- Recommended torque: by hand (5 - 8Ncm)
- Use with Hand Driver (1.2 Hex)



**NC**

Profile Diameter	Height (mm)	Ref.C
Ø3.0	2	AROAN302
	3	AROAN303
	4	AROAN304
	5	AROAN305
	6	AROAN306
	7	AROAN307
	8	AROAN308
	9	AROAN309
	Ø4.0	2
3		AROAN403
4		AROAN404
5		AROAN405
6		AROAN406
7		AROAN407
8		AROAN408
9		AROAN409
Ø5.0		2
	3	AROAN503
	4	AROAN504
	5	AROAN505
	6	AROAN506
	7	AROAN507
	8	AROAN508
	9	AROAN509

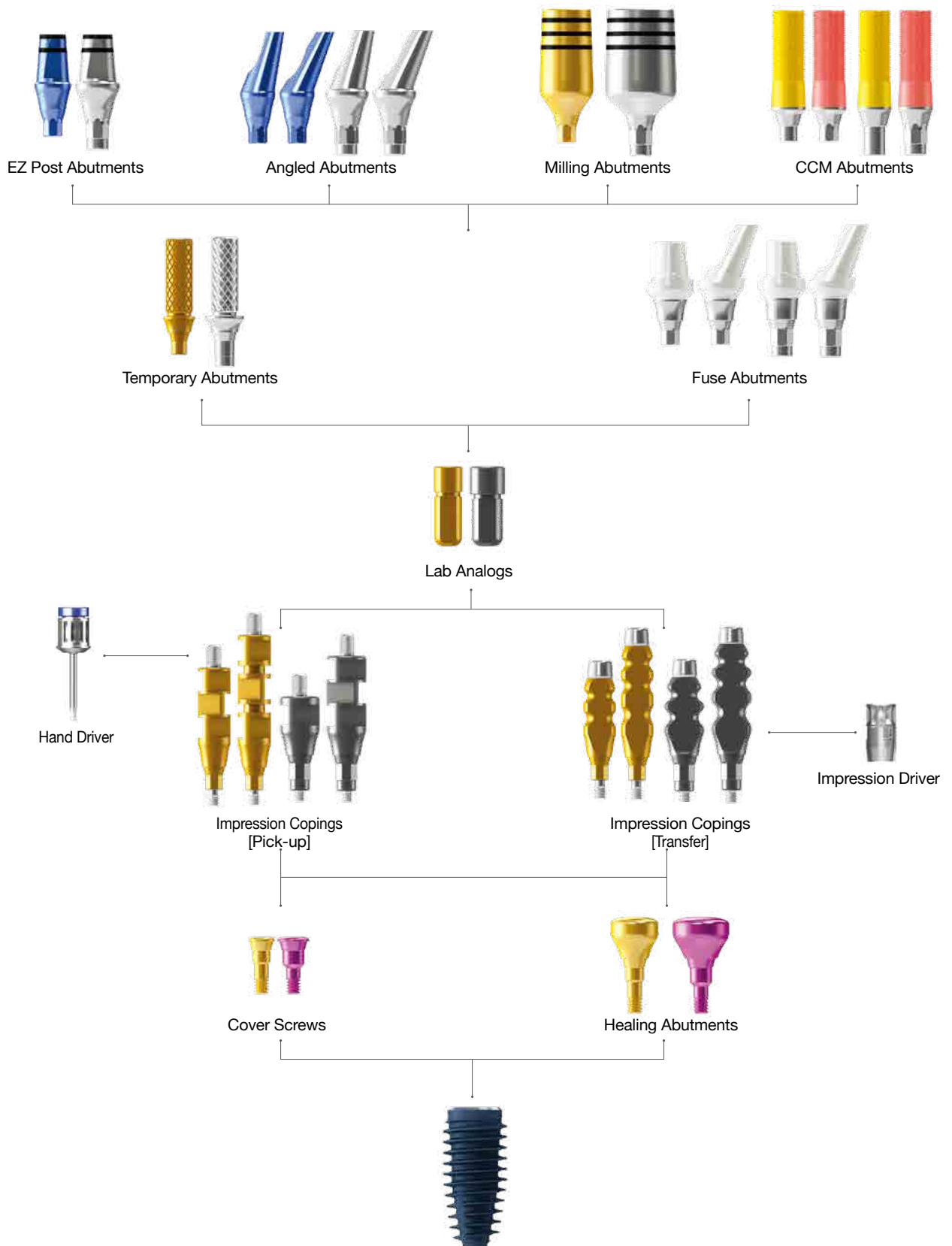
**RC**

Profile Diameter	Height (mm)	Ref.C
Ø4.0	2	AROHAR402
	3	AROHAR403
	4	AROHAR404
	5	AROHAR405
	6	AROHAR406
	7	AROHAR407
	8	AROHAR408
	9	AROHAR409
	Ø5.0	2
3		AROHAR503
4		AROHAR504
5		AROHAR505
6		AROHAR506
7		AROHAR507
8		AROHAR508
9		AROHAR509
Ø6.0		2
	3	AROHAR603
	4	AROHAR604
	5	AROHAR605
	6	AROHAR606
	7	AROHAR607
	8	AROHAR608
	9	AROHAR609
	Ø7.0	2
3		AROHAR703
4		AROHAR704
5		AROHAR705
6		AROHAR706
7		AROHAR707
8		AROHAR708
9		AROHAR709



# Abutment & Prosthetic Options

## I. Fixture-level prostheses

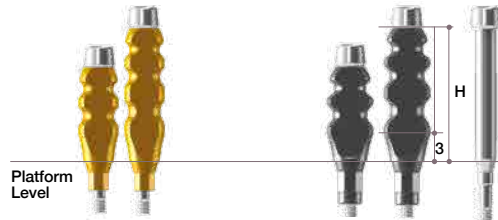


## ➔ Impression Copings & Lab Analogs

### Impression Copings (2-piece, Transfer type) (for Closed-tray technique)

\* Guide pin (AROGPT12/ 16) included with two-piece type

- Used for Closed-tray (Transfer) technique
- Impression Coping design ensures easy & accurate transfer of fixture position
- Flat surface of Impression Coping aligns with flat octa surface within fixture
- Transfer Impression Coping Driver & Hand Driver (1.2Hex) should be used to ensure Impression Coping is properly tightened



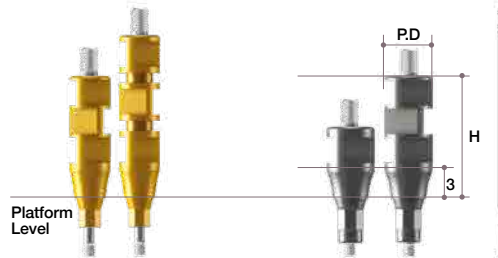
Profile Diameter	Height (mm)	Ref.C
Ø4.0	12	AROICTN4012T
	16	AROICTN4016T

Profile Diameter	Height (mm)	Ref.C
Ø5.0	12	AROICTR5012T
	16	AROICTR5016T

### Impression Copings (2-piece, Pick-up type) (for Open-tray Technique)

\* Guide pin (AROGPP10/ 15/ 20) included

- Used for open tray technique
- Most beneficial for multiple fixtures that will be splinted together
- Tray angle body design ensures stability within impression & accurate transfer of fixture position
- Extra long guide pin can be purchased separately (AROGPP25)



Profile Diameter	Height (mm)	Ref.C
Ø4.0	12	AROICPN4012T
	16	AROICPN4016T

Profile Diameter	Height (mm)	Ref.C
Ø5.0	7	AROICPR5007T
	12	AROICPR5012T

### Lab Analogs

- Replicates fixture
- Gold analog for NC Connection fixture
- Silver analog for RC Connection fixture



Profile Diameter	Ref.C
Ø3.3	AROLAN

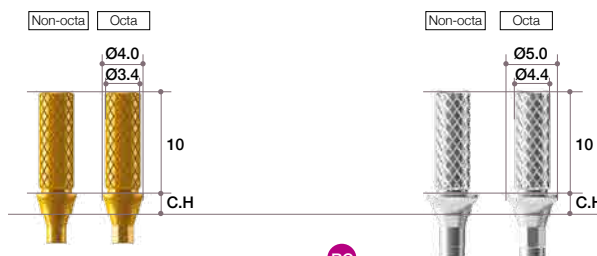
Profile Diameter	Ref.C
Ø4.1	AROLAR

## ➔ Temporary Abutments

### Temporary Abutments (Titanium)

- Abutment screw (AROAS16B/ AROAS16) included

- For making provisional restoration
- Available for both octa and non-octa
- Grooved surface on abutment post allows better retention of resin or wax
- Recommended torque: 25Ncm



**NC**

Profile Diameter	C.H (mm)	Type	Ref.C
Ø4.0	2	Octa	AROTANO4210T
		Non-Octa	AROTANN4210T
	3	Octa	AROTANO4310T
		Non-Octa	AROTANN4310T

**RC**

Profile Diameter	C.H (mm)	Type	Ref.C
Ø4.5	2	Octa	AROTARO4210T
		Non-Octa	AROTARN4210T
	3	Octa	AROTARO4310T
		Non-Octa	AROTARN4310T
Ø5.0	2	Octa	AROTARO5210T
		Non-Octa	AROTARN5210T
	3	Octa	AROTARO5310T
		Non-Octa	AROTARN5310T

### Fuse Abutments

- Abutment screw (AROAS16B/ AROAS16) & fuse cap included

- Recommended torque: 25Ncm



**NC**

Diameter	C.H (mm)	P.H (mm)	Type	Ref.C
Ø5.5	4	7	Straight	AROFAN5545T
			15°	AROFAN5415T
			25°	AROFAN5425T

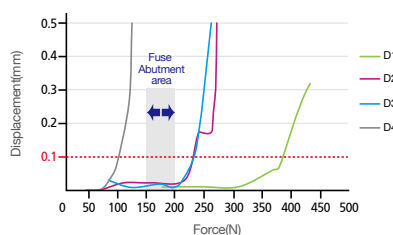
**RC**

Diameter	C.H (mm)	P.H (mm)	Type	Ref.C
Ø5.5	4	7	Straight	AROFAR5545T
			15°	AROFAR5415T
			25°	AROFAR5425T

### Rationale for Fuse Abutment™

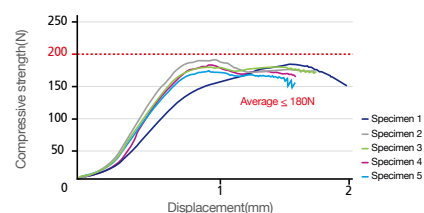


Micro-movement test of implant



Compressive strength test to evaluate micro movement of bone density  
-R&D Center, Megagen Implant Co., Ltd.(2012)-

Compressive strength test of Fuse Abutment



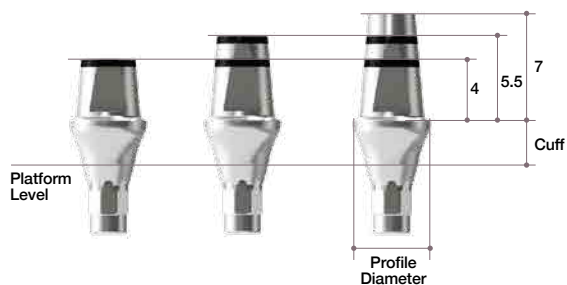
Compressive strength test to evaluate yield strength of Fuse Abutment  
-R&D Center, Megagen Implant Co., Ltd.(2012)-

## ➔ Abutment Options (continued)

### EZ Post Abutments

- Abutment screw (AROAS16B/ AROAS16) included

- Cement retained restoration
- Post Height: 4.0/ 5.5/ 7mm
- Profile Diameter: Ø4/ Ø5/ Ø6/ Ø7
- Cuff Height: 1/ 2/ 3/ 4/ 5mm
- Biological S-line provides seamless natural-looking & more functional emergence profile
- Laser marking at 4 & 5.5mm from platform level
- Color coded for different profile diameters
- Recommended torque: 35Ncm



NC

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Ref.C
Ø4.0	1	4.0	AROEPN4014T
			AROEPN4024T
			AROEPN4034T
			AROEPN4044T
			AROEPN4054T
	2	5.5	AROEPN4015T
			AROEPN4025T
			AROEPN4035T
			AROEPN4045T
			AROEPN4055T
	3	7.0	AROEPN4017T
			AROEPN4027T
			AROEPN4037T
			AROEPN4047T
			AROEPN4057T



NC

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Ref.C
Ø5.0	1	4.0	AROEPN5014T
			AROEPN5024T
			AROEPN5034T
			AROEPN5044T
			AROEPN5054T
	2	5.5	AROEPN5015T
			AROEPN5025T
			AROEPN5035T
			AROEPN5045T
			AROEPN5055T
	3	7.0	AROEPN5017T
			AROEPN5027T
			AROEPN5037T
			AROEPN5047T
			AROEPN5057T



RC

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Ref.C
Ø5.0	1	4.0	AROEP5014T
	2		AROEP5024T
	3		AROEP5034T
	4		AROEP5044T
	5		AROEP5054T
	1	5.5	AROEP5015T
	2		AROEP5025T
	3		AROEP5035T
	4		AROEP5045T
	5		AROEP5055T
	1	7.0	AROEP5017T
	2		AROEP5027T
	3		AROEP5037T
	4		AROEP5047T
	5		AROEP5057T



RC

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Ref.C
Ø6.0	1	4.0	AROEP6014T
	2		AROEP6024T
	3		AROEP6034T
	4		AROEP6044T
	5		AROEP6054T
	1	5.5	AROEP6015T
	2		AROEP6025T
	3		AROEP6035T
	4		AROEP6045T
	5		AROEP6055T
	1	7.0	AROEP6017T
	2		AROEP6027T
	3		AROEP6037T
	4		AROEP6047T
	5		AROEP6057T



RC

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Ref.C
Ø7.0	1	4.0	AROEP7014T
	2		AROEP7024T
	3		AROEP7034T
	4		AROEP7044T
	5		AROEP7054T
	1	5.5	AROEP7015T
	2		AROEP7025T
	3		AROEP7035T
	4		AROEP7045T
	5		AROEP7055T
	1	7.0	AROEP7017T
	2		AROEP7027T
	3		AROEP7037T
	4		AROEP7047T
	5		AROEP7057T

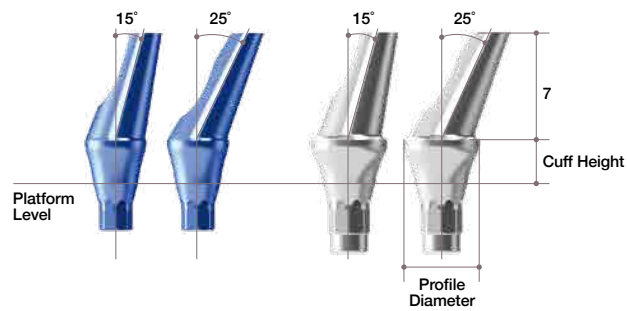



## ➔ Abutment Options (continued)

### Angled Abutments

- Abutment screw (AROAS16B/ AROAS16) included


- Two different angulations (15°, 25°)
- Four different profile diameters (Ø4.0, 5.0, 6.0, 7.0)
- Four different cuff heights (1, 2, 3, 4, 5mm)
- Covers 16 different directions  
[Eight to surface (Octa), eight to edge of Octa (Octa-Edge)]
- Color coded according to diameter for better identification
- Minimized screw head length uses minimum height to prevent milling problems
- Recommended torque: 35Ncm






NC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø4.0	1	Octa	15°	AR0AAON4115T
	2			AR0AAON4215T
	3			AR0AAON4315T
	4			AR0AAON4415T
	5			AR0AAON4515T
	1	Edge		AR0AAEN4115T
	2			AR0AAEN4215T
	3			AR0AAEN4315T
	4			AR0AAEN4415T
	5			AR0AAEN4515T




NC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø4.0	1	Octa	25°	AR0AAON4125T
	2			AR0AAON4225T
	3			AR0AAON4325T
	4			AR0AAON4425T
	5			AR0AAON4525T
	1	Edge		AR0AAEN4125T
	2			AR0AAEN4225T
	3			AR0AAEN4325T
	4			AR0AAEN4425T
	5			AR0AAEN4525T



NC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø5.0	1	Octa	15°	AR0AAON5115T
	2			AR0AAON5215T
	3			AR0AAON5315T
	4			AR0AAON5415T
	5			AR0AAON5515T
	1	Edge		AR0AAEN5115T
	2			AR0AAEN5215T
	3			AR0AAEN5315T
	4			AR0AAEN5415T
	5			AR0AAEN5515T



NC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø5.0	1	Octa	25°	AR0AAON5125T
	2			AR0AAON5225T
	3			AR0AAON5325T
	4			AR0AAON5425T
	5			AR0AAON5525T
	1	Edge		AR0AAEN5125T
	2			AR0AAEN5225T
	3			AR0AAEN5325T
	4			AR0AAEN5425T
	5			AR0AAEN5525T



RC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø5.0	1	Octa	15°	AR0AAOR5115T
	2			AR0AAOR5215T
	3			AR0AAOR5315T
	4			AR0AAOR5415T
	5			AR0AAOR5515T
	1	Edge		AR0AAER5115T
	2			AR0AAER5215T
	3			AR0AAER5315T
	4			AR0AAER5415T
	5			AR0AAER5515T



RC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø5.0	1	Octa	25°	AR0AAOR5125T
	2			AR0AAOR5225T
	3			AR0AAOR5325T
	4			AR0AAOR5425T
	5			AR0AAOR5525T
	1	Edge		AR0AAER5125T
	2			AR0AAER5225T
	3			AR0AAER5325T
	4			AR0AAER5425T
	5			AR0AAER5525T



RC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø6.0	1	Octa	15°	AR0AAOR6115T
	2			AR0AAOR6215T
	3			AR0AAOR6315T
	4			AR0AAOR6415T
	5			AR0AAOR6515T
	1	Edge		AR0AAER6115T
	2			AR0AAER6215T
	3			AR0AAER6315T
	4			AR0AAER6415T
	5			AR0AAER6515T



RC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø6.0	1	Octa	25°	AR0AAOR6125T
	2			AR0AAOR6225T
	3			AR0AAOR6325T
	4			AR0AAOR6425T
	5			AR0AAOR6525T
	1	Edge		AR0AAER6125T
	2			AR0AAER6225T
	3			AR0AAER6325T
	4			AR0AAER6425T
	5			AR0AAER6525T



RC

Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø7.0	1	Octa	15°	AR0AAOR7115T
	2			AR0AAOR7215T
	3			AR0AAOR7315T
	4			AR0AAOR7415T
	5			AR0AAOR7515T
	1	Edge		AR0AAER7115T
	2			AR0AAER7215T
	3			AR0AAER7315T
	4			AR0AAER7415T
	5			AR0AAER7515T



RC

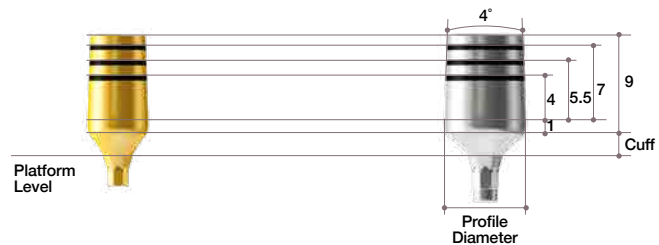
Profile Diameter	Cuff Height(mm)	Type	Angle	Ref.C
Ø7.0	1	Octa	25°	AR0AAOR7125T
	2			AR0AAOR7225T
	3			AR0AAOR7325T
	4			AR0AAOR7425T
	5			AR0AAOR7525T
	1	Edge		AR0AAER7125T
	2			AR0AAER7225T
	3			AR0AAER7325T
	4			AR0AAER7425T
	5			AR0AAER7525T

## ➔ Abutment Options

### Milling Abutments

- Abutment screw(AROAS16B/ AROAS16) included

- Long post enables easier customization from milling
- Recommended torque: 35Ncm



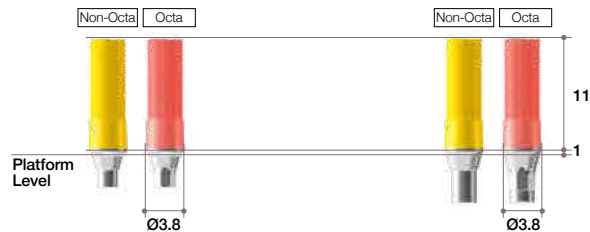
NC			
Profile Diameter	Cuff Height (mm)	Post Height (mm)	Ref.C
Ø6.0	1	9	AROMAN6019T
	2		AROMAN6029T
	3		AROMAN6039T
	4		AROMAN6049T
	5		AROMAN6059T

RC			
Profile Diameter	Cuff Height (mm)	Post Height (mm)	Ref.C
Ø8.0	1	9	AROMAR8019T
	2		AROMAR8029T
	3		AROMAR8039T
	4		AROMAR8049T
	5		AROMAR8059T

### CCM Abutments

- Abutment screw(AROAS16B/ AROAS16) included

- Useful a for customized abutment in difficult situations
- Can be cast with non-precious alloys(Ni-Cr, Cr-Co alloys)
- Non-precious melting temperature: depends on manufacturer
- Threaded sleeves for convenient resin / wax-up
- Melting temperature of CCM: 1300~1400°C
- Recommended torque: 35Ncm

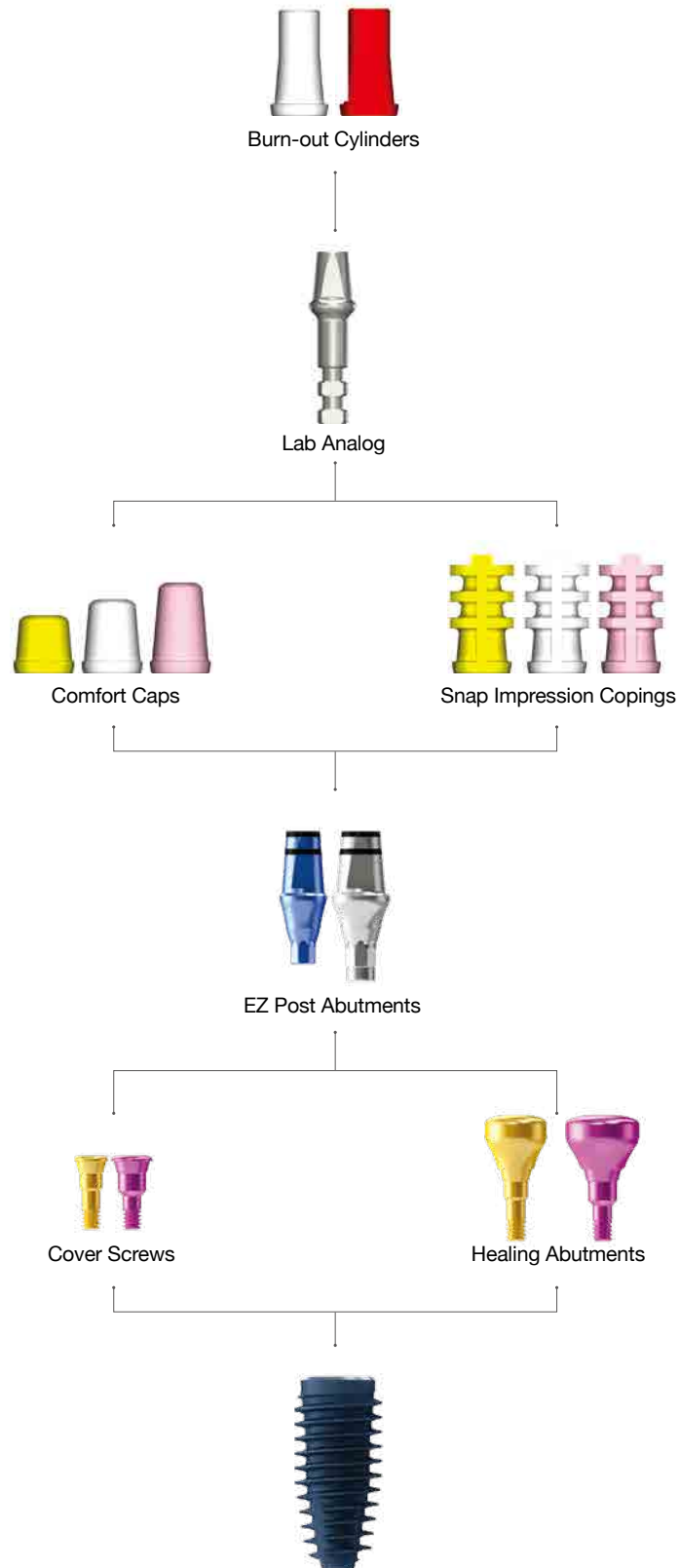


NC			
Profile Diameter	Cuff Height (mm)	Post Height (mm)	Ref.C
Ø3.8	1	11	AROCCMNO4111T
			AROCCMNN4111T

RC			
Profile Diameter	Cuff Height (mm)	Post Height (mm)	Ref.C
Ø3.8	1	11	AROCCMRO4111T
			AROCCMRN4111T

## II. Abutment-level Prostheses

# 1. EZ Post Abutments & Components

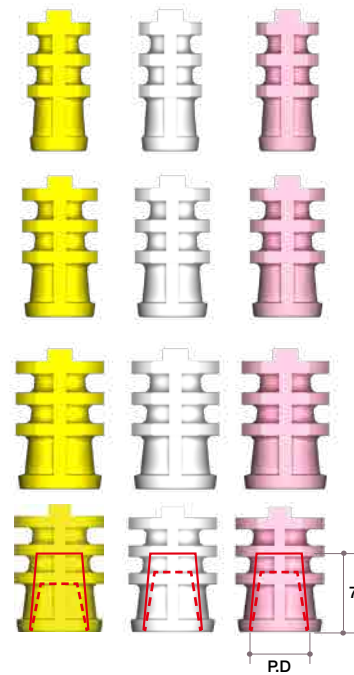


## ➔ Components for Solid Abutments

### Snap Impression Copings

- For impression of solid abutments
- 3 colors for different post heights
- 4 different profile diameters (Ø4, 5, 6, 7)
- Do not use when abutment is trimmed

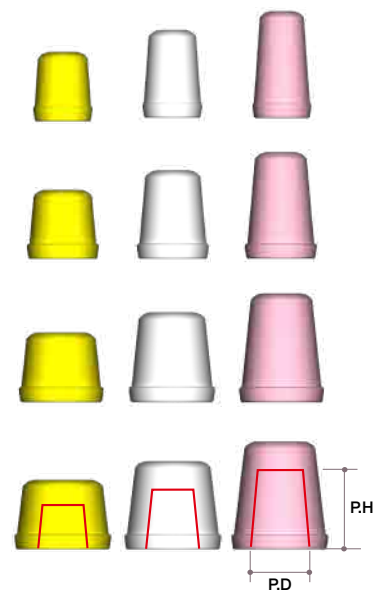
Profile Diameter	Ref.C
Ø4.0	AANSIF440
	AANSIF455
	AANSIF470
Ø5.0	AANSIF540
	AANSIF555
	AANSIF570
Ø6.0	AANSIF640
	AANSIF655
	AANSIF670
Ø7.0	AANSIF740
	AANSIF755
	AANSIF770



### Comfort Caps

- Protects solid abutment & minimizes irritation to tongue & oral mucosa
- Can be applied under temporary prosthetics
- Color coded according to post height

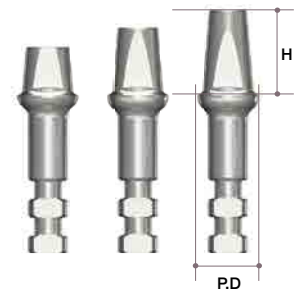
Profile Diameter	Post Height(mm)	Ref.C
Ø4.0	4	AANCCF440
	5.5	AANCCF455
	7	AANCCF470
Ø5.0	4	AANCCF540
	5.5	AANCCF555
	7	AANCCF570
Ø6.0	4	AANCCF640
	5.5	AANCCF655
	7	AANCCF670
Ø7.0	4	AANCCF740
	5.5	AANCCF755
	7	AANCCF770



## Lab Analogs

- Directly connects to Snap Impression Coping in impression to make stone model

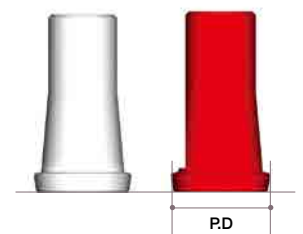
Profile Diameter	Height(mm)	Ref.C
Ø4.0	4	AANSLF440
	5.5	AANSLF455
	7	AANSLF470
Ø5.0	4	AANSLF540
	5.5	AANSLF555
	7	AANSLF570
Ø6.0	4	AANSLF640
	5.5	AANSLF655
	7	AANSLF670
Ø7.0	4	AANSLF740
	5.5	AANSLF755
	7	AANSLF770



## Burn-out Cylinders

- Fits with Lab Analog(solid level)
- Easy for wax-up & accurate casting
- Use white cylinder for multiple units
- Use red cylinder for single crown

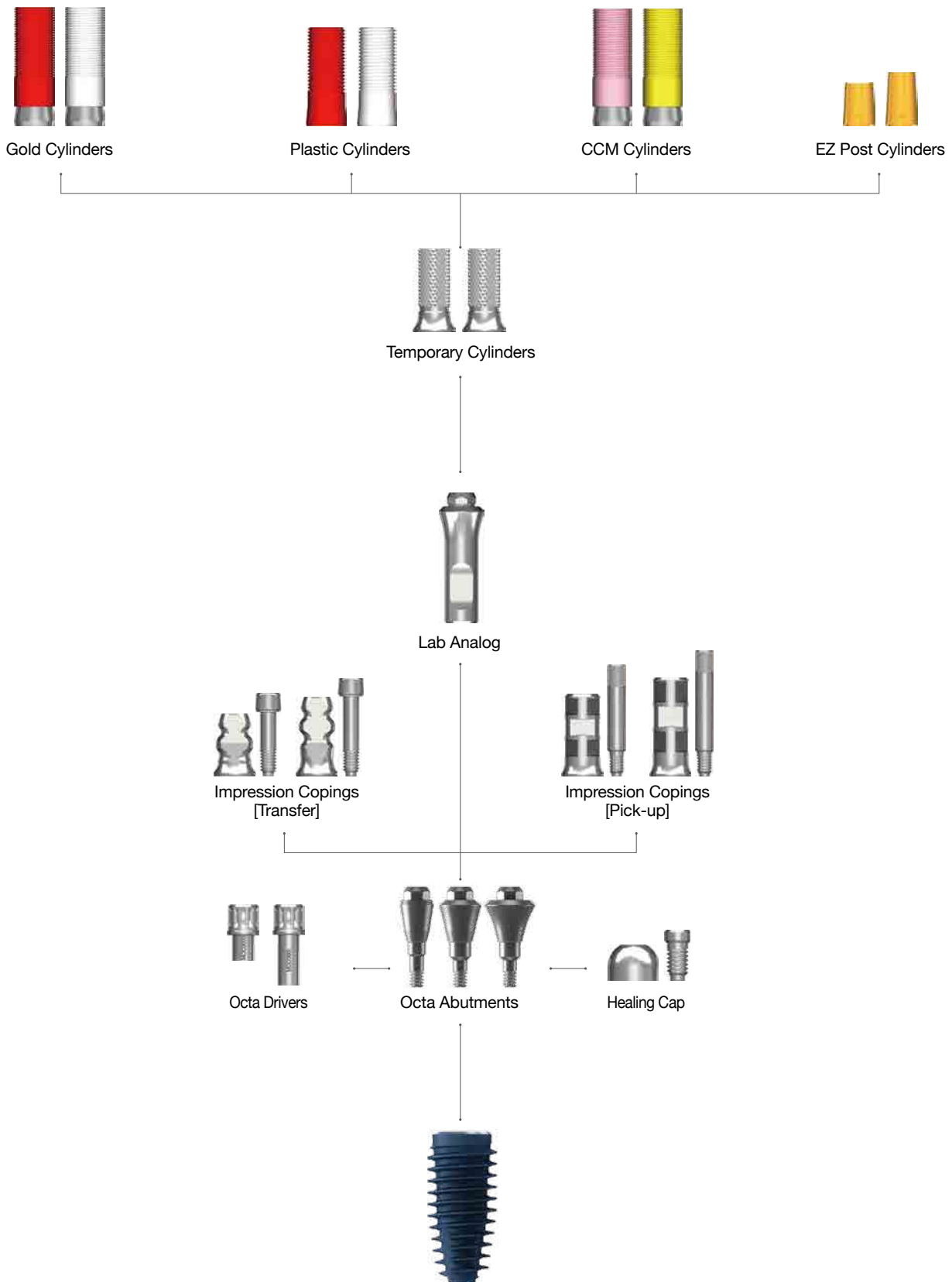
Profile Diameter	Type	Ref.C
Ø4.0	Multiple	AANBCB470
Ø5.0		AANBCB570
Ø6.0		AANBCB670
Ø7.0		AANBCB770
Ø4.0	Single	AANBCS470
Ø5.0		AANBCS570
Ø6.0		AANBCS670
Ø7.0		AANBCS770





## II. Abutment-level Prostheses

# 2. Octa Abutments & Components



## ➔ Components for Octa Abutments (continued)

### Octa Abutments

- Used in manufacturing multiple screw-retained prosthetics
- Use with Octa Driver
- Recommended torque: 35Ncm



NC

Profile Diameter	Cuff Height (mm)	Ref.C
Ø4.0	1	AROOAN4010
	2	AROOAN4020
	3	AROOAN4030
	4	AROOAN4040
	5	AROOAN4050

RC

Profile Diameter	Cuff Height (mm)	Ref.C
Ø5.0	1	AROOAR5010
	2	AROOAR5020
	3	AROOAR5030
	4	AROOAR5040
	5	AROOAR5050
Ø6.0	1	AROOAR6010
	2	AROOAR6020
	3	AROOAR6030
	4	AROOAR6040
	5	AROOAR6050

### Healing Cap

- Cylinder screw(I RCS200) included

- Protects Octa Abutment & minimizes irritation to tongue & oral mucosa

Profile Diameter	Ref.C
Ø4.0	AANOHC4000T
Ø5.0	IHC400T
Ø6.0	AANOHC6000T



## ➔ Components for Octa Abutments

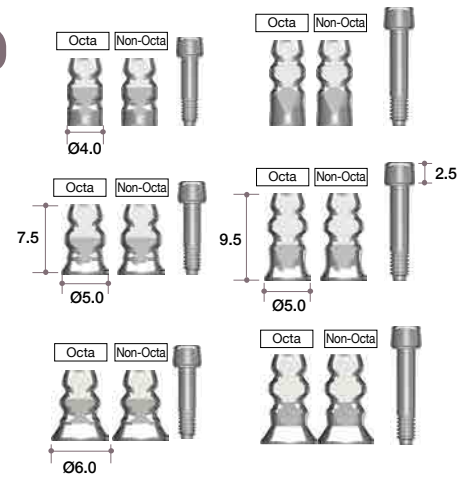
### Impression Copings

#### (Transfer)

- Guide pin(AAOTGP10 / AAOTGP12) included

- Should be tightened using Impression Driver or 1.2 Hex Driver
- Special impression coping screw for use with 1.2mm hex driver is available on request

Profile Diameter	Height (mm)	Type	Ref.C
Ø4.0	7.5	Octa	AAOIT04010T
		Non-Octa	AAOITN4010T
	9.5	Octa	AAOIT04012T
		Non-Octa	AAOITN4012T
Ø5.0	7.5	Octa	AAOIT05010T
		Non-Octa	AAOITN5010T
	9.5	Octa	AAOIT05012T
		Non-Octa	AAOITN5012T
Ø6.0	7.5	Octa	AAOIT06010T
		Non-Octa	AAOITN6010T
	9.5	Octa	AAOIT06012T
		Non-Octa	AAOITN6012T

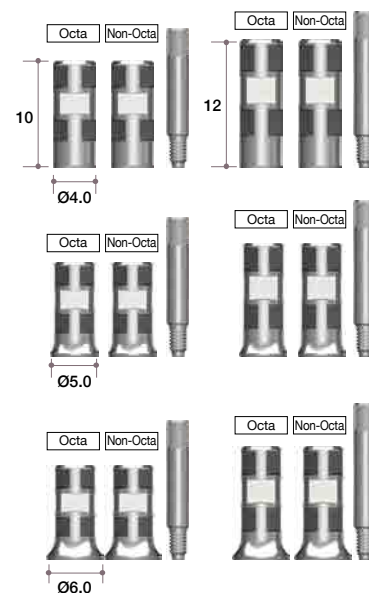


### Impression Copings

#### (Pick-up)

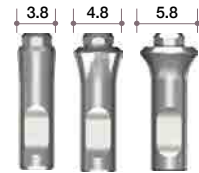
- Guide pin(AAOPGP10 / AAOPGP12) included

Profile Diameter	Height (mm)	Type	Ref.C
Ø4.0	10.0	Octa	AAOIPO4010T
		Non-Octa	AAOIPN4010T
	12.0	Octa	AAOIPO4012T
		Non-Octa	AAOIPN4012T
Ø5.0	10.0	Octa	AAOIPO5010T
		Non-Octa	AAOIPN5010T
	12.0	Octa	AAOIPO5012T
		Non-Octa	AAOIPN5012T
Ø6.0	10.0	Octa	AAOIPO6010T
		Non-Octa	AAOIPN6010T
	12.0	Octa	AAOIPO6012T
		Non-Octa	AAOIPN6012T



## Lab Analogs

Profile Diameter	Ref.C
Ø3.8	AANOLA4000
Ø4.8	IOA300
Ø5.8	AANOLA6000

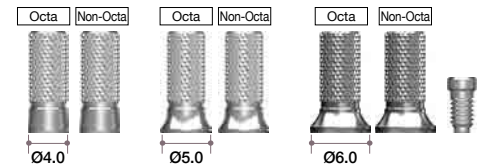


## Temporary Cylinders

- Cylinders screw(IRCS200) included

- Recommended torque: 25Ncm

Profile Diameter	Type	Ref.C
Ø4.0	Octa	AANOTCO4010T
	Non-Octa	AANOTCN4010T
Ø5.0	Octa	AANOTCO5010T
	Non-Octa	AANOTCN5010T
Ø6.0	Octa	AANOTCO6010T
	Non-Octa	AANOTCN6010T

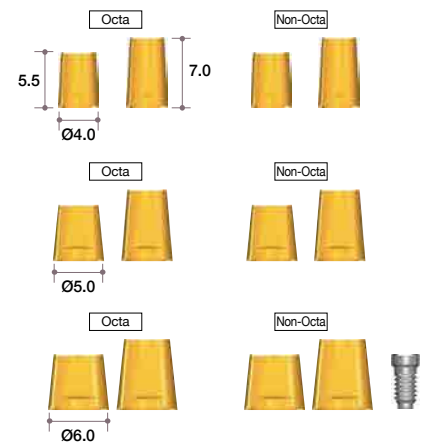


## EZ Post Cylinders

- Cylinder screw(IRCS200) included

- Recommended torque: 35Ncm

Profile Diameter	Post Height(mm)	Type	Ref.C
Ø4.0	5.5	Octa	AAOECO4005T
	7.0		AAOECO4007T
	5.5	Non-Octa	AAOECN4005T
	7.0		AAOECN4007T
Ø5.0	5.5	Octa	AAOECO5005T
	7.0		AAOECO5007T
	5.5	Non-Octa	AAOECN5005T
	7.0		AAOECN5007T
Ø6.0	5.5	Octa	AAOECO6005T
	7.0		AAOECO6007T
	5.5	Non-Octa	AAOECN6005T
	7.0		AAOECN6007T



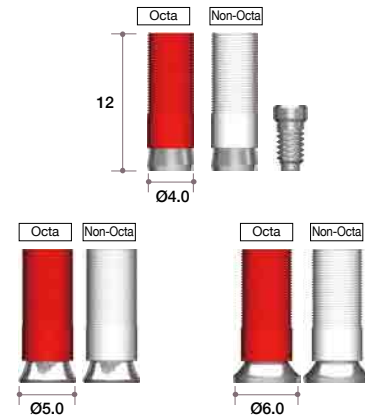
# ➔ Components for Octa Abutments

## Gold Cylinders

- Cylinder screw(IRCS200) included

- For customizing abutment for screw-retained multi-unit restoration
- Available in both octa(red) & non-octa(white)
- Melting point of gold alloy: 1063°C
- Threaded sleeves allow better retention of resin or wax
- Available in three diameters (Ø4.0, 5.0, 6.0)
- Recommended torque: 30Ncm

Profile Diameter	Type	Ref.C
Ø4.0	Octa	AANGCO4000T
	Non-Octa	AANGCN4000T
Ø5.0	Octa	IOGO100T
	Non-Octa	IIGN100T
Ø6.0	Octa	AANGCO6000T
	Non-Octa	AANGCN6000T

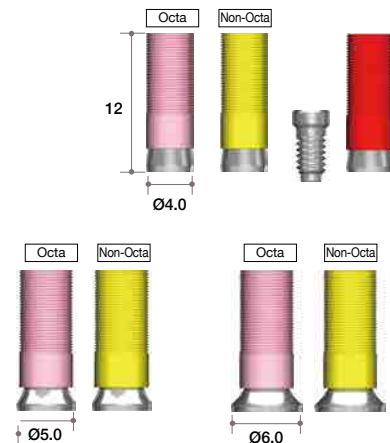


## CCM Cylinders

- Cylinder screw(IRCS200) included

- Threaded sleeves allow better retention of resin or wax.
- Available in both octa (pink) and non-octa (yellow) & three diameters (Ø4.0, 5.0, 6.0)
- Melting point of CCM alloy: 1300~1400°C
- Recommended torque: 35Ncm
- Can be cast using non-precious alloys (Ni-Cr, Cr-Co alloys)

Profile Diameter	Type	Ref.C
Ø4.0	Octa	AANCCO4000T
	Non-Octa	AANCCN4000T
Ø5.0	Octa	AANCCO5000T
	Non-Octa	AANCCN5000T
Ø6.0	Octa	AANCCO6000T
	Non-Octa	AANCCN6000T

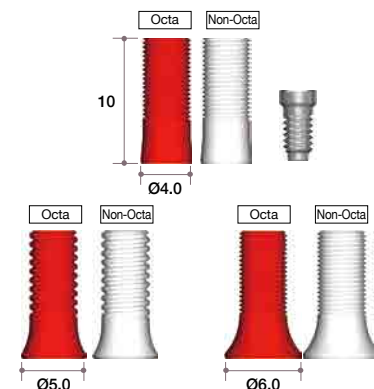


## Plastic Cylinders

- Cylinder screw(IRCS200) included

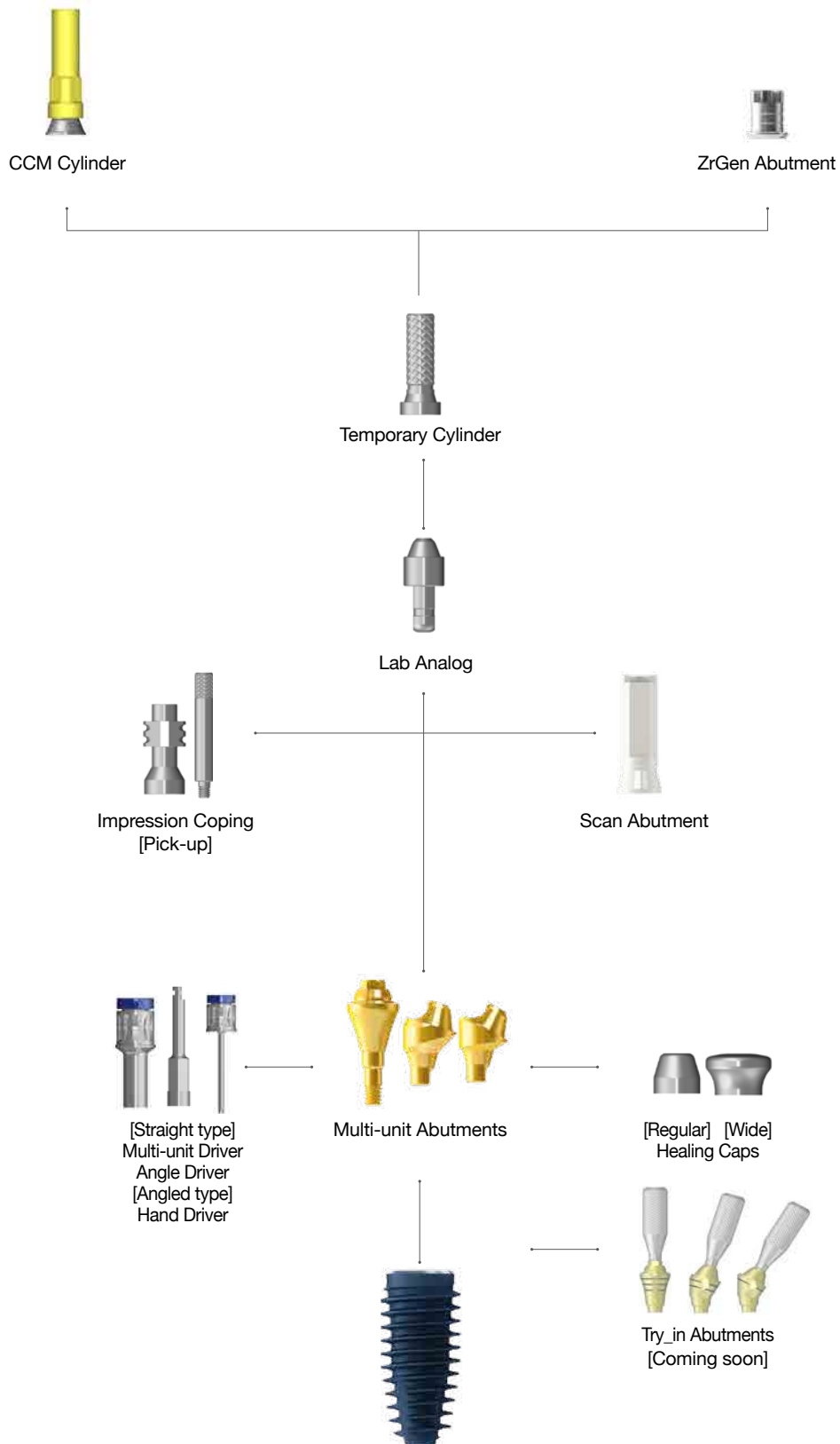
- Economical option
- Used for customizing abutment for screw-retained multi-unit restoration
- Available in both octa (red) & non-octa (white)
- Threaded sleeves allow better retention of resin or wax
- Recommended torque: 25Ncm

Profile Diameter	Type	Ref.C
Ø4.0	Octa	AAOTCO4010T
	Non-Octa	AAOTCN4010T
Ø5.0	Octa	IOPH100T
	Non-Octa	IOPN100T
Ø6.0	Octa	AAOTCO6010T
	Non-Octa	AAOTCN6010T



## II. Abutment-level Prostheses

# 3. Multi-unit Abutments & Components

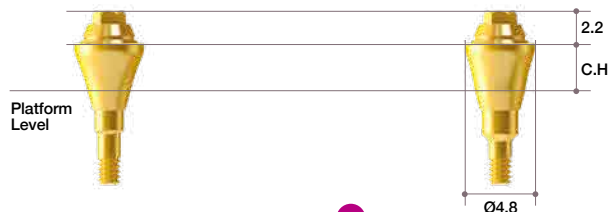




## ➔ Multi-unit Abutments

### Multi-unit Abutments (Straight)

- MUA Straight Carrier (MUASC) included
- Recommended torque: 35Ncm



NC

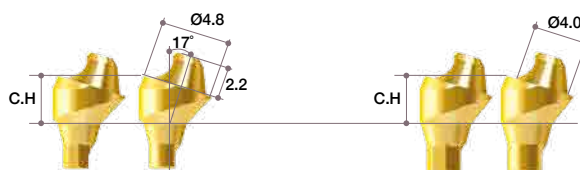
Cuff Height (mm)	Type	Ref.C
1.5	1-piece (M1.6)	MUAARONN0015C
2.5		MUAARONN0025C
3.5		MUAARONN0035C
4.5		MUAARONN0045C

RC

Cuff Height (mm)	Type	Ref.C
1.5	1-piece (M1.6)	MUAARORN0015C
2.5		MUAARORN0025C
3.5		MUAARORN0035C
4.5		MUAARORN0045C

### Multi-unit Angled Abutments – 17°

- MUA screw (MUAAROS) included
- MUA Angled Carrier (MUAAC) included
- Recommended torque: 35Ncm



NC

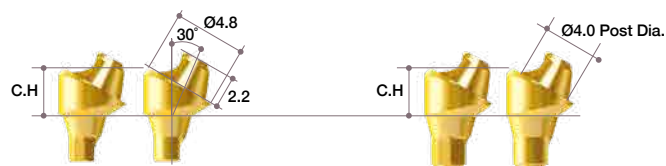
Cuff Height (mm)	Type	Ref.C
2.5	Hex	MUAARONO1725TC
3.5		MUAARONO1735TC
4.5		MUAARONO1745TC
2.5	Non-Hex	MUAARONN1725TC
3.5		MUAARONN1735TC
4.5		MUAARONN1745TC

RC

Cuff Height (mm)	Type	Ref.C
2.5	Hex	MUAARORO1725TC
3.5		MUAARORO1735TC
4.5		MUAARORO1745TC
2.5	Non-Hex	MUAARORN1725TC
3.5		MUAARORN1735TC
4.5		MUAARORN1745TC

### Multi-unit Angled Abutments – 30°

- MUA screw (MUAAROS) included
- MUA Angled Carrier (MUAAC) included
- Recommended torque: 35Ncm



NC

Cuff Height (mm)	Type	Ref.C
3.5	Hex	MUAARONO3035TC
4.5		MUAARONO3045TC
3.5	Non-Hex	MUAARONN3035TC
4.5		MUAARONN3045TC

RC

Cuff Height (mm)	Type	Ref.C
3.5	Hex	MUAARORO3035TC
4.5		MUAARORO3045TC
3.5	Non-Hex	MUAARORN3035TC
4.5		MUAARORN3045TC

## ▶▶ Multi-unit Abutment Set Contents

### Multi-unit Abutment Healing cap-type Set reference code

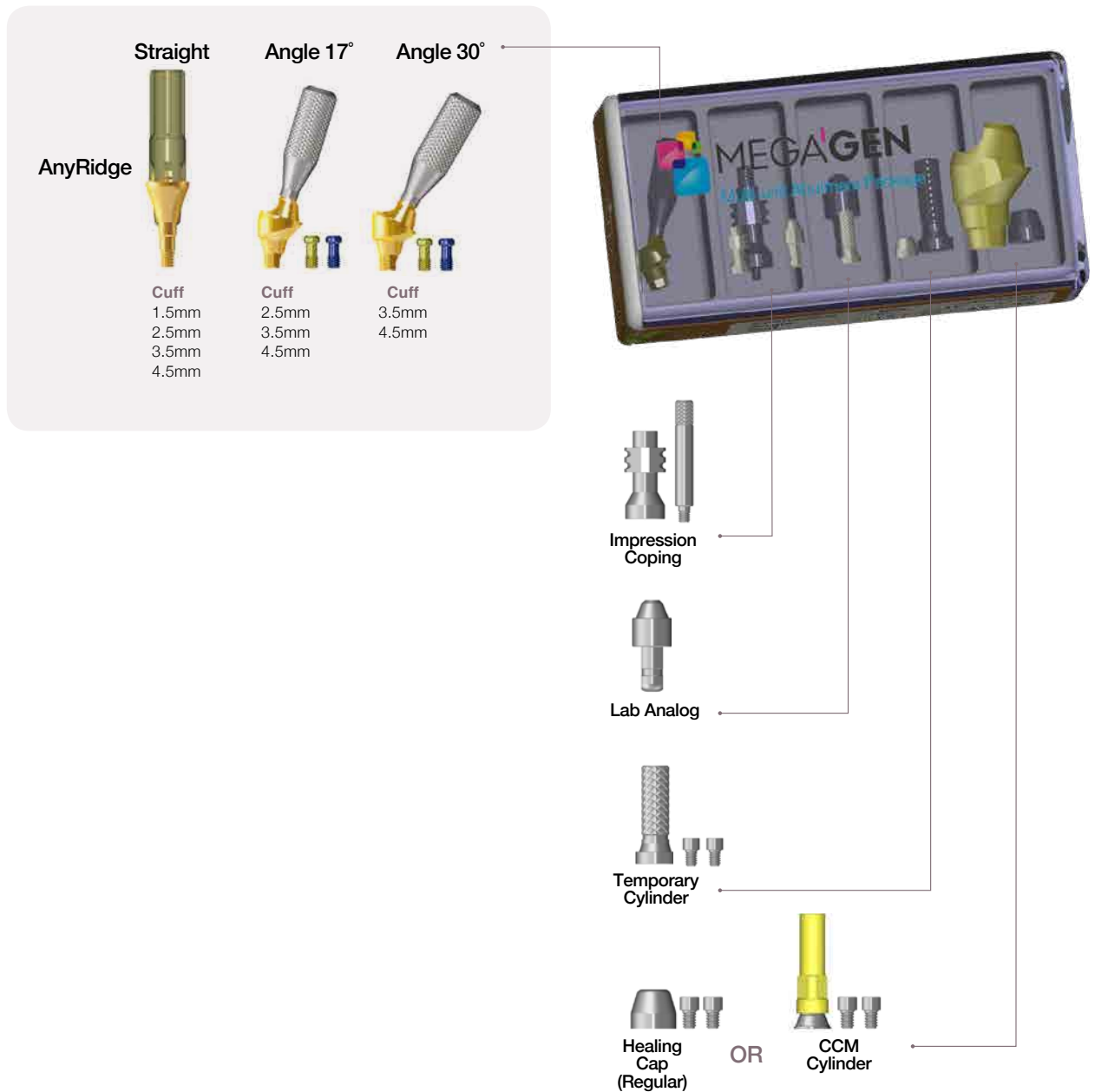
Order code: Add "HP" after existing reference code

E.g.) MUAARONO3035TC → MUAARONO3035 HP

### Multi-unit Abutment CCM-type Set reference code

Order code: Add "P" after existing reference code

E.g.) MUAARONO3035TC → MUAARONO3035 P

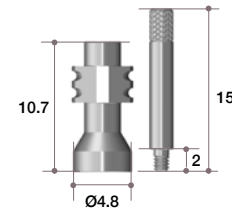


## ➡ Components for Multi-unit Abutment (Continued)

### Impression coping (Pick-up)

- Guide pin (MUAGP) included
- Use for taking impression at abutment level
- Open-tray method

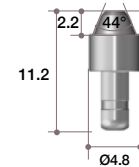
Connection	Ref.C
Non-Hex	MUAICT



### Lab Analog

- Use to duplicate multi-unit abutment in working model
- Available as RP Analog for 3D-printed working model

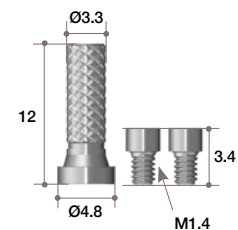
Head form	Ref.C
Multi-unit Abutment(Nobel)	MUALA



### Temporary Cylinder

- Cylinder screw (MUAS) included
- Use for fabricating acrylic provisional restoration
- Grooves on post cylinder allow storing resin adhesion
- Back-up screw is included
- Recommended torque: 15Ncm

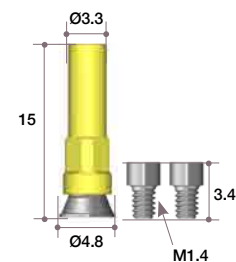
Connection	Ref.C
Non-Hex	MUATCL



### CCM Cylinder

- Cylinder screws (MUAS) 2EA included
- Use for fabricating screw-retained prostheses with metal-reinforced or bar-structured overdentures
- Can be cast using non-precious dental alloys (Ni-Cr, Cr-Co alloys)
- Melting temperature of CCM base: 1300~1400°C
- Back-up screw is included
- Recommended torque: 15Ncm

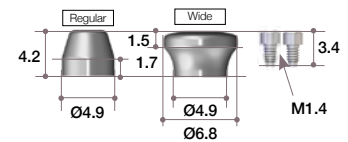
Connection	Ref.C
Non-Hex	MUA L



## Healing Caps

- Cylinder screws (MUAS) 2ea included
- Size of healing cap can be selected depending on soft tissue volume or type of restoration

Type	Ref.C
Regular	MUAHCL
Wide	MUAHCWL



### Healing Cap Set reference code

**Order code: Add "P" after existing reference code**

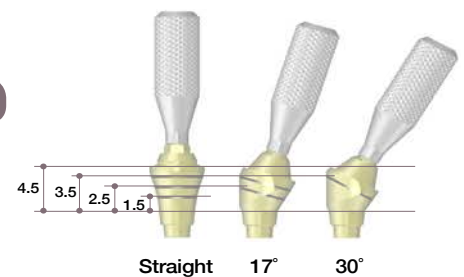
E.g.) MUAHCL → MUAHCP



## Try-in Abutments (Coming soon)

- Cuff height is indicated with laser markings
- Straight, 17°, 30°
- Non-hex type

Angle	Cuff Marking	Ref.C
Straight	1.5 / 2.5 / 3.5 / 4.5	MUTIAAR00C
17°	2.5 / 3.5 / 4.5	MUTIAAR17C
30°	3.5 / 4.5	MUTIAAR30C



### Try-in Abutment Set reference code

**Order code: MUTIAAR00P**



- \* Available Systems: AnyRidge Internal, AnyRidge Octa 1, AnyOne Internal, AnyOne External
- \* Kit contains Straight, 17°, and 30° Try-in Abutments (1 each)

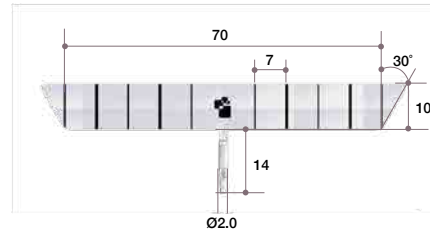


## ➔ Components for Multi-unit Abutments

### Surgical Guide

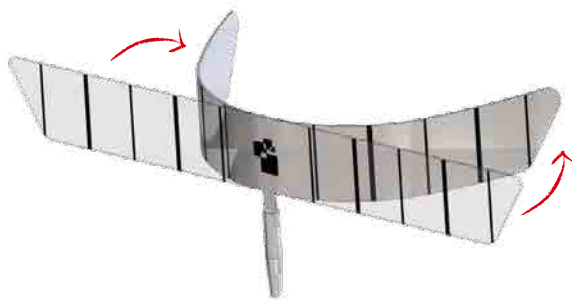
- Distance between lines is 7mm
- Place center pin after initial drilling at centre of arch. (Refer to surgical protocol on page 98)

Angle	Marking Length (mm)	Ref.C
30°	7	MUSG70

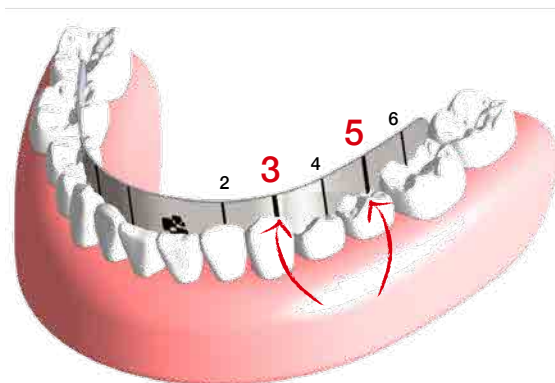


### ▶▶ How to use Surgical Guide

- ※ As canines & second premolars are most commonly used, the surgical guide includes thicker lines for easier identification
- ※ The surgical guide can also be used with first molars depending on the surgical plan



Bend to use



[Packaging]

NEW PRODUCT

### III. Overdenture Prosthesis

## 1. MegaGen Overdenture System

### Meg-Loc

Compatible with products L and K, excellent functionality, & incomparable price!

Combination of Titanium housing and Pekkton (reinforced plastic) creates low water solubility and higher wear resistance and durability than other existing products.

Retention insert offers wide range of retention forces (600gf, 1200gf, 1800gf) to suit each patient, resulting in high level of satisfaction for both patient and dentist. Strong physical properties of Pekkton and insert gap increase elasticity, so that insert does not tear or break unlike conventional nylon products, thereby ensuring strong retention and longer life.



### Meg-Ball

Smallest housing, retentive ring with longer life!

Even when the implant angle is not parallel, a stable denture can still be produced!

Compatible with other products with Ø2.25 head size, minimized patient inconvenience due to small-size housing, simpler to arrange artificial teeth as space occupied by denture is reduced, and easier to maintain than other systems.

Retentive ring has a high elasticity, abrasion resistance, and durability, thereby doubling the length of life when compared to a silicone O-ring and guaranteeing a longer life than NBR products.

Positioner (0/5/10/15 degrees) maintains parallel housing direction, even with distorted implant placement angle, ensuring denture stability.

### Meg-Magnet

Designed to maintain stable and sufficient magnetic force!  
Completely blocks bursts and corrosion resistant!

Structure is connected with abutment using magnetic force, which is feasible even with insufficient bone volume or poor bone quality

Easy to attach and detach, and minimal inflammation.

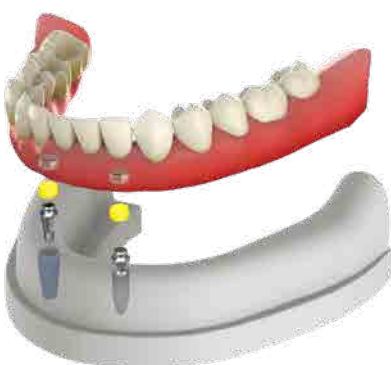
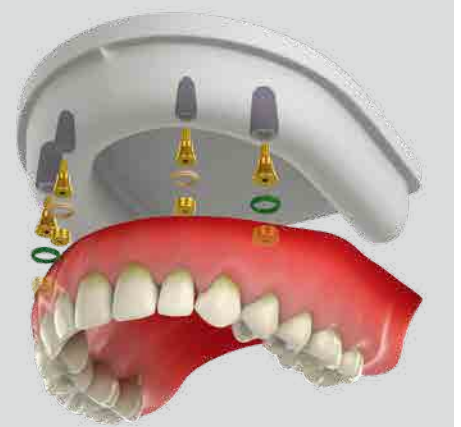
Magnet of Ø4.5 & Ø5.0 is compatible with other products, and laser marking on upper part makes it easy to distinguish between up and down.

Sufficient magnetic force (450gf, 650gf) ensures stable retention

Laser sealing blocks any bursting phenomenon.

TiN coating provides corrosion resistance.

Positioner (small & regular) prevents magnet from slipping in the mouth and stops any flow of impression materials under the abutment.



### Meg-Rhein

Can compensate for tilted implant placement angle up to 50 °.

Combined head and housing structure is smallest on the market.

Retentive cap is based on Italian technology and has uniform physical properties. Various retention forces (600gf, 1200gf, 1800gf, 2700gf) classified by color can be selected according to each patient.

Dynamic housing with double structure enables tilting to 25 ° angle, allowing stable denture even when with distorted implant placement angle.



### III. Overdenture Prosthesis

## 2. Meg-Loc Abutment & Component



Meg-Loc Metal Housing set



Block-out Spacer



Meg-Loc Abutment



## ►► Meg-Loc Overdenture System

### Advantages

Easy compatibility

Compatible with Product L and Product K (same specifications)

Better abrasion resistance and durability

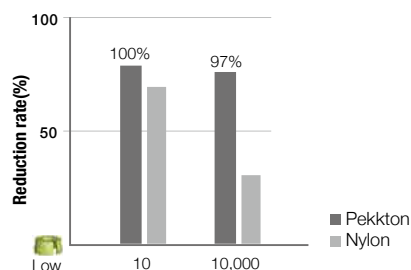
Combination of Titanium housing and reinforced plastic (Pektkton) provides low water solubility and high resistance, making it superior in abrasion resistance and durability compared to existing products.

Water Sorption Test

Property	Meg-Loc (Pektkton)	Product L	Unit
Water Sorption	8.7	93.5	µg/mm <sup>3</sup>

Stronger retention and longer life

Strong physical properties of Pektkton and gap in insert increase the elasticity, preventing the insert from being torn or broken unlike existing nylon products, even when angle does not match when attaching & removing denture.



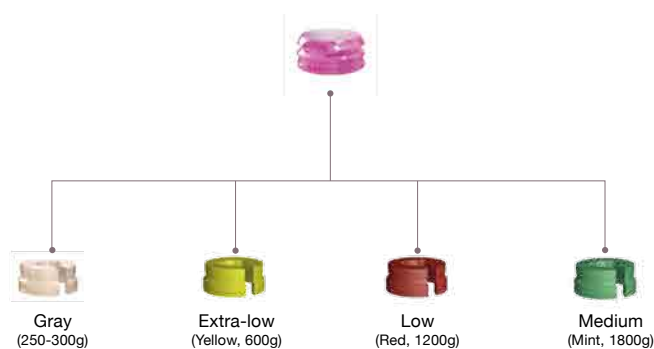
Easy to use

High resistance to plaque and easy cleaning  
Easy replacement of retention insert

Tilting Angle



Various Retentive Caps of the Meg-Loc



# ➡ Meg-Loc Overdenture System

## Meg-Loc Abutment

- Angle compensation to one side 20° (both sides 40°)
- Gently rounded shape
- Compatible with 1.2 Hex Driver
- Recommend torque : 35Ncm



**NC**

Cuff Height (mm)	Ref.C
0	MLARON00
1.0	MLARON01
2.0	MLARON02
3.0	MLARON03
4.0	MLARON04
5.0	MLARON05
6.0	MLARON06

**RC**

Cuff Height (mm)	Ref.C
0	MLAROR00
1.0	MLAROR01
2.0	MLAROR02
3.0	MLAROR03
4.0	MLAROR04
5.0	MLAROR05
6.0	MLAROR06

## Meg-Loc Package

- 1 Meg-Loc Abutment

\* Following package items are delivered with San DreMetto Korea packaging.

- 1 Titanium Housing
- 1 Block Out Spacer
- 4 Pekkton Retention Inserts (Gray-250~300gf(for lab), Yellow-600gf, Red-1200gf, Mint-1800gf)



**NC**

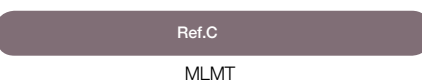
Cuff Height (mm)	Ref.C
0	MLARON00P
1.0	MLARON01P
2.0	MLARON02P
3.0	MLARON03P
4.0	MLARON04P
5.0	MLARON05P
6.0	MLARON06P

**RC**

Cuff Height (mm)	Ref.C
0	MLAROR00P
1.0	MLAROR01P
2.0	MLAROR02P
3.0	MLAROR03P
4.0	MLAROR04P
5.0	MLAROR05P
6.0	MLAROR06P

## Multi Tool

- Retention insert Insert & Remove Tool



### III. Overdenture Prosthesis

## 3. Meg-Ball Abutment & Component



Meg-Ball Metal Housing set



Housing Positioner  
(0°/5°/10°/15°)



Meg-Ball Abutment



## ►► Meg-Ball Overdenture System

### Advantages

Easy compatibility



Ø2.25 head size for easy compatibility with other products

Smallest Housing



Metal Housing

Small housing minimizes patient inconvenience, facilitates arrangement of artificial teeth by reducing space occupied by denture, and is easier to maintain than other systems.

Double length of life



Retentive Ring

High elasticity, abrasion resistance, and durability doubles the length of life when compared with silicone O-ring and guarantees longer life than NBR products.

Stable denture even when implant placement angle is distorted

Positioner (0/5/10/15 degrees) maintains parallel housing direction even when angle of implant placement is distorted, ensuring denture stability



Tilting Angle



## ➔ Meg-Ball Overdenture System

### Meg-Ball Abutment

- Angle compensation to one side 15 °  
(both sides 30 °)
- Ø2.25 Ball shape
- Recommend torque : 35Ncm



**NC**

Cuff Height (mm)	Ref.C
0	MBARON00
1.0	MBARON10
2.0	MBARON20
3.0	MBARON30
4.0	MBARON40
5.0	MBARON50
6.0	MBARON60

**RC**

Cuff Height (mm)	Ref.C
0	MBAROR00
1.0	MBAROR10
2.0	MBAROR20
3.0	MBAROR30
4.0	MBAROR40
5.0	MBAROR50
6.0	MBAROR60

### Meg-Ball Package

- Composed of Meg-Ball Abutment/  
Metal Housing Set/  
Housing Positioner (0°, 5°, 10°, 15°)

**NC**

Cuff Height (mm)	Ref.C
0	MBARON00P
1.0	MBARON10P
2.0	MBARON20P
3.0	MBARON30P
4.0	MBARON40P
5.0	MBARON50P
6.0	MBARON60P

**RC**

Cuff Height (mm)	Ref.C
0	MBAROR00P
1.0	MBAROR10P
2.0	MBAROR20P
3.0	MBAROR30P
4.0	MBAROR40P
5.0	MBAROR50P
6.0	MBAROR60P

### Meg-Ball Metal Housing Set

- 1 Metal Housing
- 1 Retentive Ring

Ref.C
MBHR



### Retentive Ring Set

Quantity	Ref.C
5	MBR5
10	MBR10





### III. Overdenture Prosthesis

## 4. Meg-Magnet Abutment & Component



## ▶▶ Meg-Magnet Overdenture System

### Advantages

Easy to apply for elderly patients or disabled patients

Designed for maximum magnetic efficiency and durability

Outstanding retention

- Blocks bursting
- Corrosion resistant
- Abrasion resistant

Easy to distinguish between up and down via laser marking on upper section

No slippage of magnet

Component of the Meg-Magnet

Applicable with insufficient bone volume and poor bone quality  
Easy to attach and detach  
Unlikely to cause inflammation

Sufficient magnetic force (450gf, 650gf) to ensure stable retention  
Laser sealing blocks any bursting phenomenon

TiN coating provides corrosion resistance  
Over 0.1mm thickness at contact with attachment to ensure wear resistance



Magnet of Ø4.5 & Ø5.0 is compatible with other products  
Laser marking on upper part makes it easy to distinguish between up and down



Positioner (small & regular) prevents magnet from slipping in mouth and stops any flow of impression materials under the abutment

Small



Ø4.5  
(450gf)

Regular



Ø5.0  
(650gf)

Ø4.5(Small)



450gf

Ø5.0(Regular)



650gf

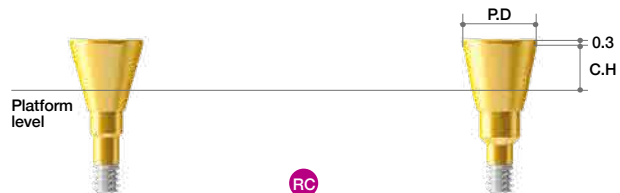


# ➔ Meg-Magnet Overdenture System

## Meg-Magnet Abutment

- Use to 1.2 Hex Driver

• Recommend torque : 35Ncm

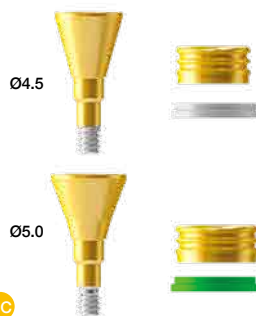


**NC**

Profile Diameter	Cuff Height (mm)	Ref.C
Ø4.5	0	MMARON400
	1.0	MMARON410
	2.0	MMARON420
	3.0	MMARON430
	4.0	MMARON440
Ø5.0	0	MMARON500
	1.0	MMARON510
	2.0	MMARON520
	3.0	MMARON530
	4.0	MMARON540
	5.0	MMARON550

**RC**

Profile Diameter	Cuff Height (mm)	Ref.C
Ø4.5	0	MMAROR400
	1.0	MMAROR410
	2.0	MMAROR420
	3.0	MMAROR430
	4.0	MMAROR440
Ø5.0	0	MMAROR500
	1.0	MMAROR510
	2.0	MMAROR520
	3.0	MMAROR530
	4.0	MMAROR540
	5.0	MMAROR550



## Meg-Magnet Package

- 1 Meg-Magnet Abutment
- 1 Magnet (Ø4.5-450gf, Ø5.0-650gf)
- 1 Magnetic Positioner

**NC**

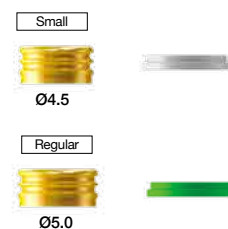
Profile Diameter	Cuff Height (mm)	Ref.C
Ø4.5	0	MMARON400P
	1.0	MMARON410P
	2.0	MMARON420P
	3.0	MMARON430P
	4.0	MMARON440P
Ø5.0	0	MMARON500P
	1.0	MMARON510P
	2.0	MMARON520P
	3.0	MMARON530P
	4.0	MMARON540P
	5.0	MMARON550P

**RC**

Profile Diameter	Cuff Height (mm)	Ref.C
Ø4.5	0	MMAROR400P
	1.0	MMAROR410P
	2.0	MMAROR420P
	3.0	MMAROR430P
	4.0	MMAROR440P
Ø5.0	0	MMAROR500P
	1.0	MMAROR510P
	2.0	MMAROR520P
	3.0	MMAROR530P
	4.0	MMAROR540P
	5.0	MMAROR550P

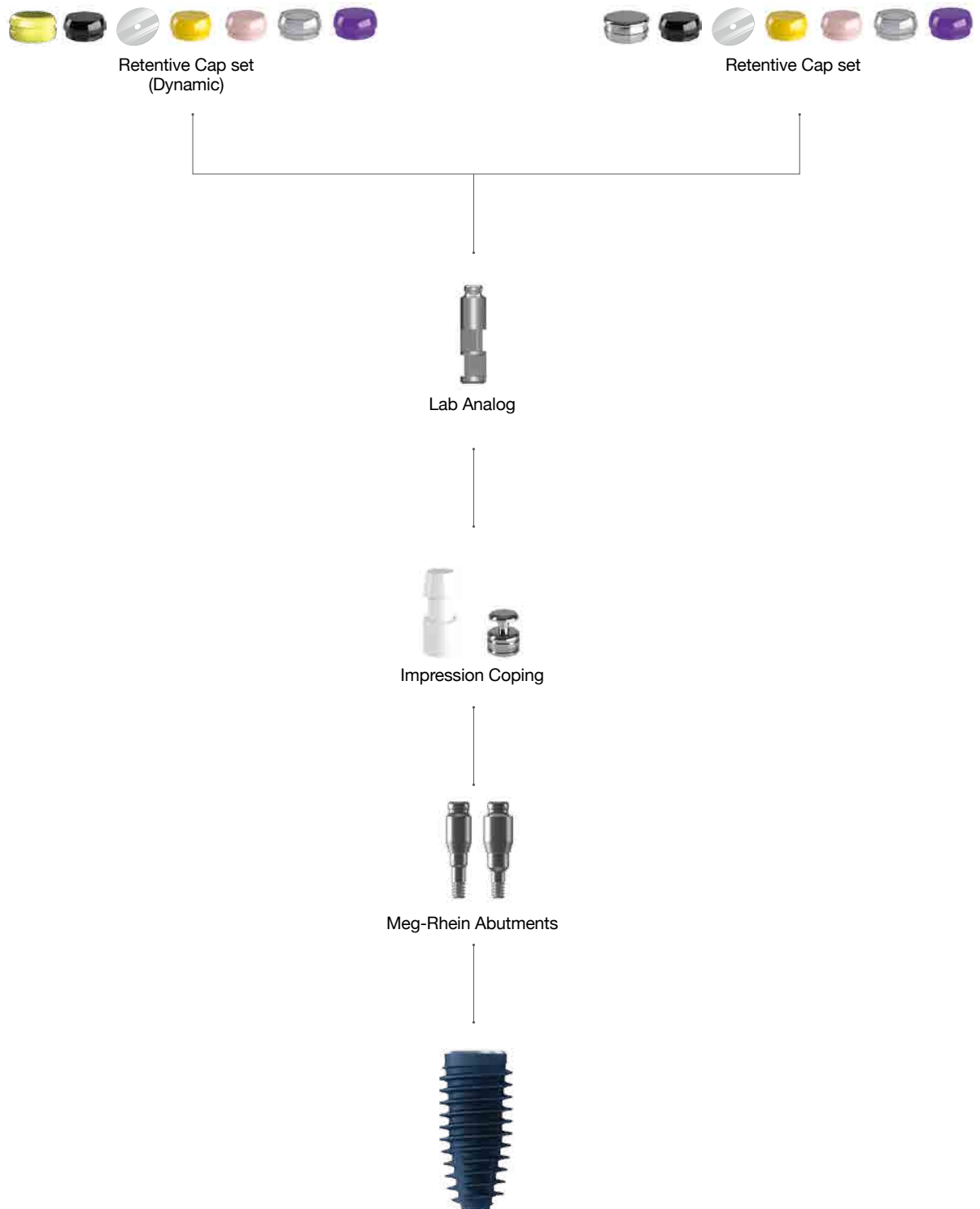
## Meg-Magnet Attachment Set

Size	Ref.C
Small	MA402
Regular	MA502




### III. Overdenture Prosthesis

## 5. Meg-Rhein Abutments & Components



# ►► Meg-Rhein Overdenture System

## Advantages

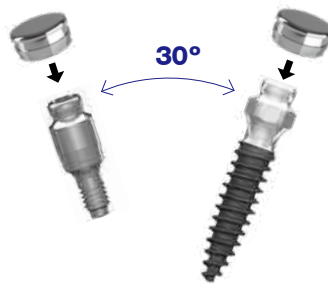
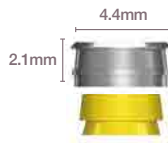
Small & easy-to-use Housing System 

Tilting Angle

Various Retentive Caps for Meg-Rhein

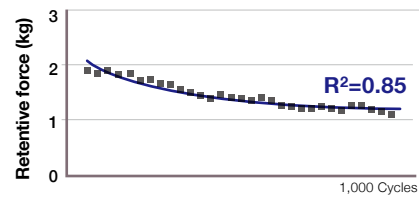
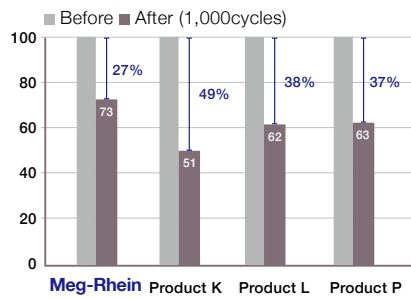
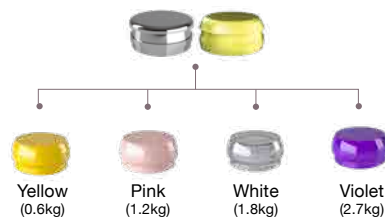
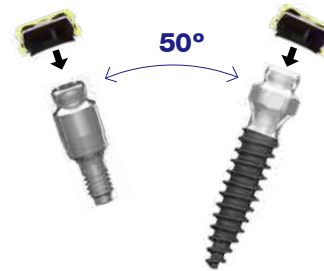
Low reduction rate & uniform variance of retentive force

### Normal



NEW!!

### Dynamic



$R^2$  (Coefficient of determination) becomes more reliable when it is close to "1".

## ➔ Meg-Rhein Abutment Overdenture System

### Meg-Rhein Abutments



### Meg-Rhein Overdenture System

#### (Dynamic)

- 1 Meg-Rhein Abutment
- 1 Plastic Impression Coping
- 1 Stainless Steel Housing (Dynamic) & Black-Lab
- 1 Protective Disk
- 4 Retentive Caps (Yellow-0.6kg, Pink-1.2kg, White-1.8kg, Violet-2.7kg)

- Perfect compatibility with Rhein83 from Italy
- Recommended torque: 15Ncm

NC

Cuff Height (mm)	Ref.C
0	ARODN00PA
1.0	ARODN01PA
2.0	ARODN02PA
3.0	ARODN03PA
4.0	ARODN04PA
5.0	ARODN05PA
6.0	ARODN06PA

RC

Cuff Height (mm)	Ref.C
0	ARODR00PA
1.0	ARODR01PA
2.0	ARODR02PA
3.0	ARODR03PA </td
4.0	ARODR04PA
5.0	ARODR05PA
6.0	ARODR06PA

### Meg-Rhein Overdenture System

#### (Normal)

- 1 Meg-Rhein Abutment
- 1 Plastic Impression Coping
- 1 Stainless Steel Housing
- 1 Protective Disk
- 5 Retentive Caps (Black-Lab, Yellow-0.6kg, Pink-1.2kg, White-1.8kg, Violet-2.7kg)

- Perfect compatibility with Rhein83 from Italy
- Recommended torque: 15Ncm

NC

Cuff Height (mm)	Ref.C
0	ARODN00P
1.0	ARODN01P
2.0	ARODN02P
3.0	ARODN03P
4.0	ARODN04P
5.0	ARODN05P
6.0	ARODN06P

RC

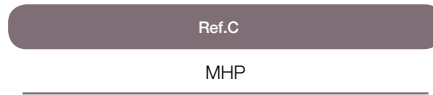
Cuff Height (mm)	Ref.C
0	ARODR00P
1.0	ARODR01P
2.0	ARODR02P
3.0	ARODR03P
4.0	ARODR04P
5.0	ARODR05P
6.0	ARODR06P



# ➔ Components for Meg-Rhein Abutments

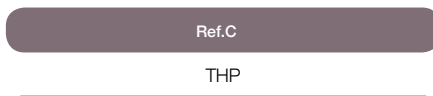
## Stainless Steel Housing

- 5ea/pack



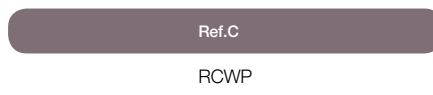
## Stainless Steel Housing (Dynamic)

- 5ea/pack



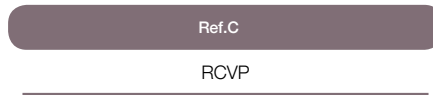
## Retentive Caps (White)

- White cap(1.8kg) - for refill (5ea/pack)
- Can be used for more retentive force following pink cap(1.2kg)



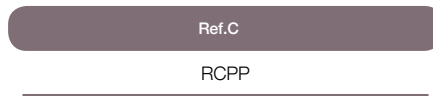
## Retentive Caps (Violet)

- Violet cap(2.7kg) - for refill (5ea/pack)
- Can be used for more retentive force following white cap(1.8kg)



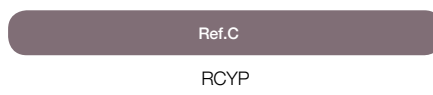
## Retentive Caps (Pink)

- Pink cap(1.2kg) - for refill (5ea/pack)



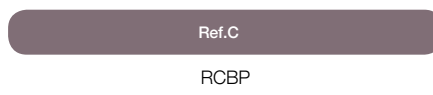
## Retentive Caps (Yellow)

- Yellow cap(0.6kg) - for refill (5ea/pack)



## Retentive Caps (Black)

- For laboratory



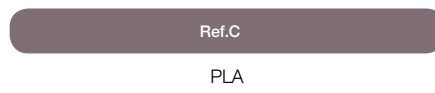


## Stainless Impression Coping (Pick-up)

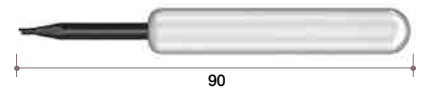
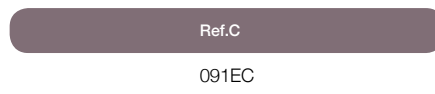
- 2ea/pack
- Italy - Rhein 83 products
- For accurate (pick-up type) impression
- Metal with groove design to prevent swaying



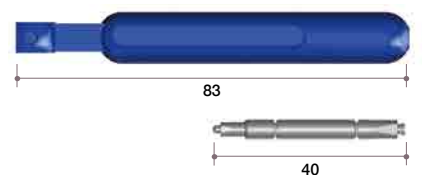
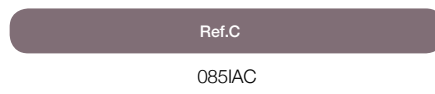
## Lab Analog



## Retentive Cap Removal Tool



## Retentive Cap Insertion Tool

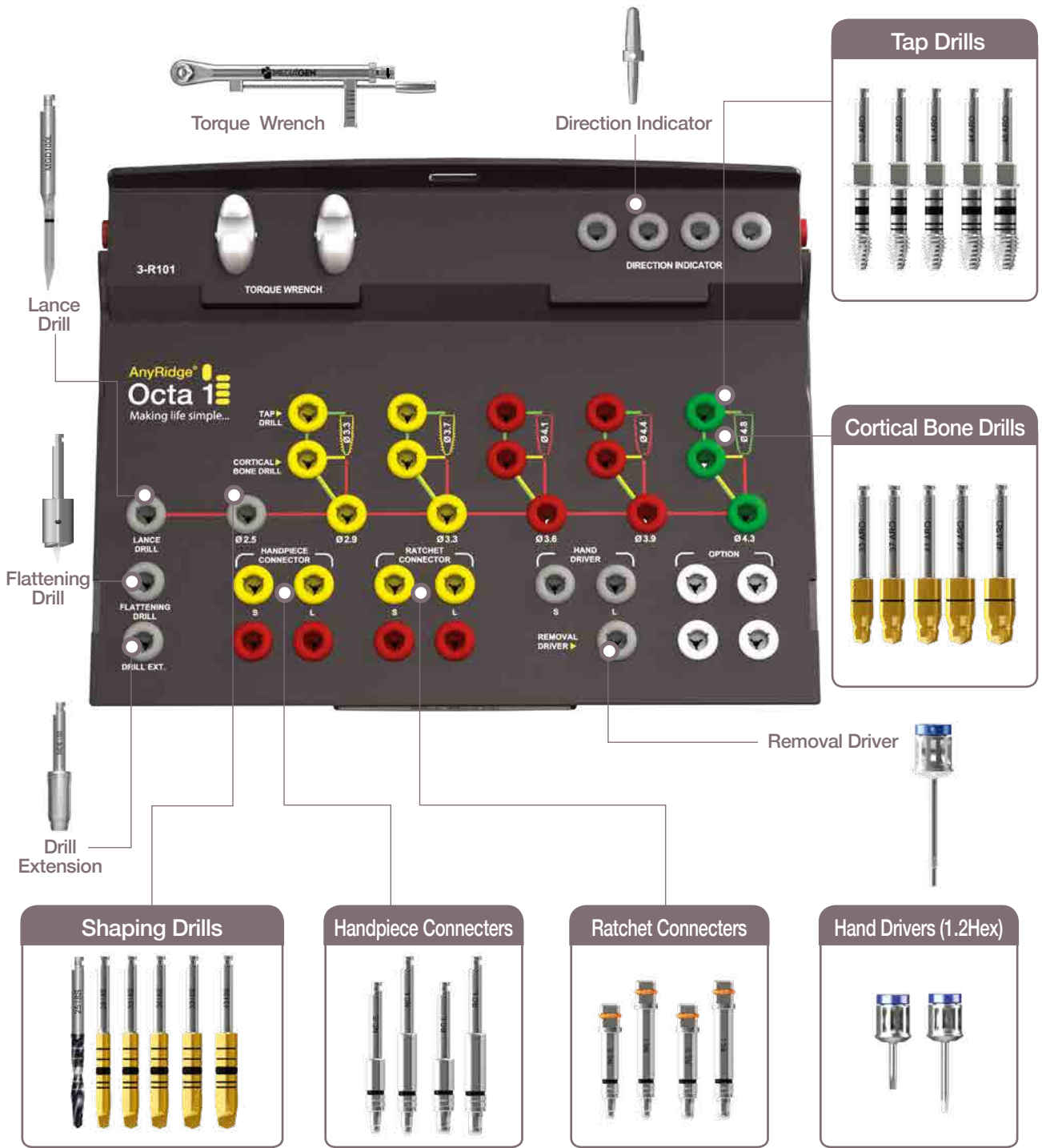


# AnyRidge Octa 1 Kit

## I. Surgical Kit (Standard Type)

Ref.C

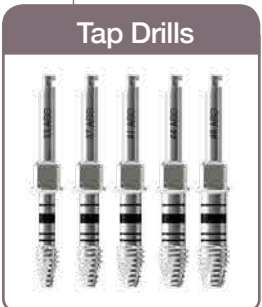
KARO3003



# I. Surgical Kit (Full type)










Ref.C  
KARO3001

The main image shows the AnyRidge Octa1 surgical kit tray, a black rectangular tray with various compartments and labels. At the top, there are two white knobs labeled 'TORQUE WRENCH' and a 'DIRECTION INDICATOR' with four circular ports. Below these are several rows of drill bits in different colors (yellow, red, green) and sizes. On the left side, there are labels for 'Lance Drill', 'CORTICAL BONE DRILL', 'STOPPER DRILL', 'FLATTENING DRILL', and 'DRILL EXTENSION'. On the right side, there are labels for 'HANDPIECE CONNECTOR', 'RATCHET CONNECTOR', 'HAND DRIVER', 'REMOVAL DRIVER', and 'OPTION'. The tray is surrounded by several callout boxes showing detailed views of specific components.

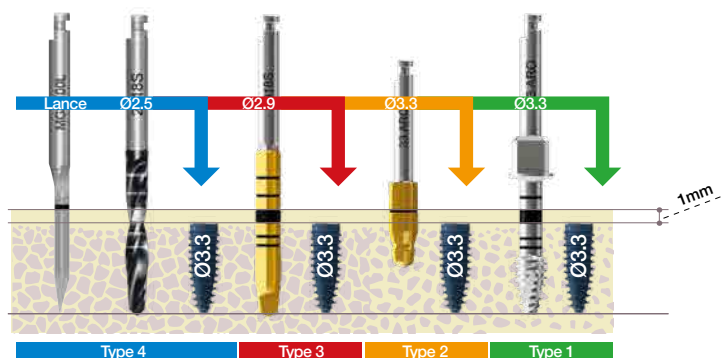


## ►► Drilling Protocols

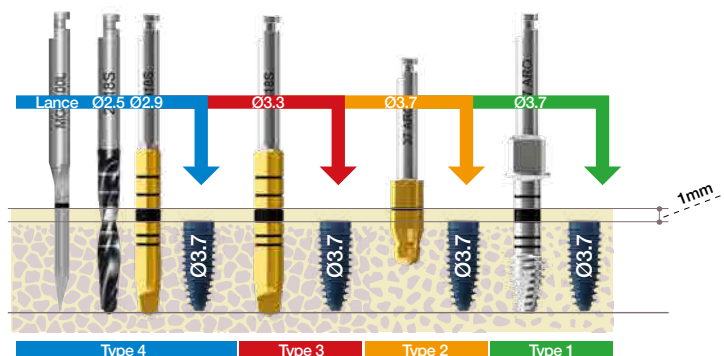
- AnyRidge Octa 1 fixtures achieve optimum initial stability when used with a guided drilling sequence
- Octa 1 implants should be placed 1mm sub crestally  
0.5~1mm subcrestal placement has been proven to show a better crestal bone response

	Lance	Shaping Drills						Cortical Bone Drills	Tap Drills
		Ø2.5	Ø2.9	Ø3.3	Ø3.6	Ø3.9	Ø4.3		
									
rpm max	800	800	600	600	500	500	400	300	15

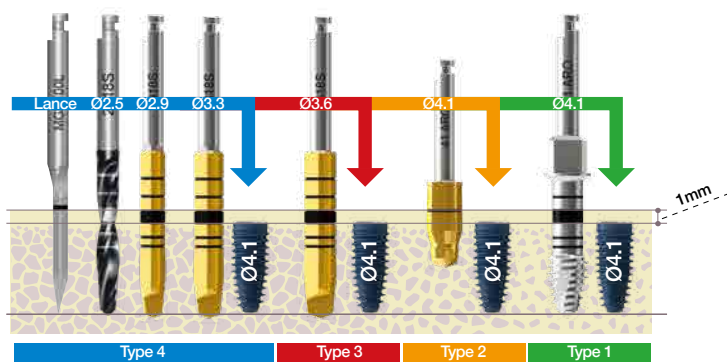
### Ø3.3 Fixture Drilling sequence



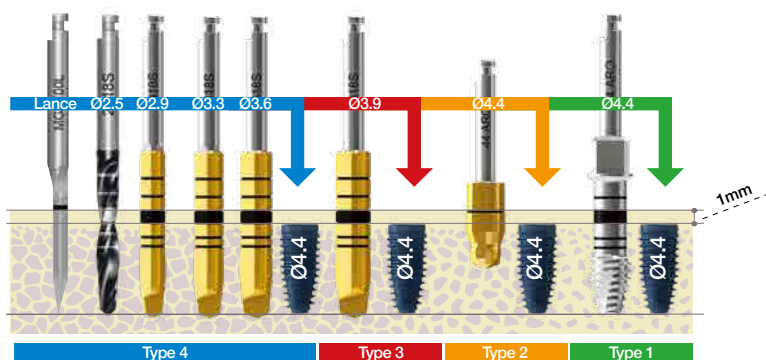
### Ø3.7 Fixture Drilling sequence



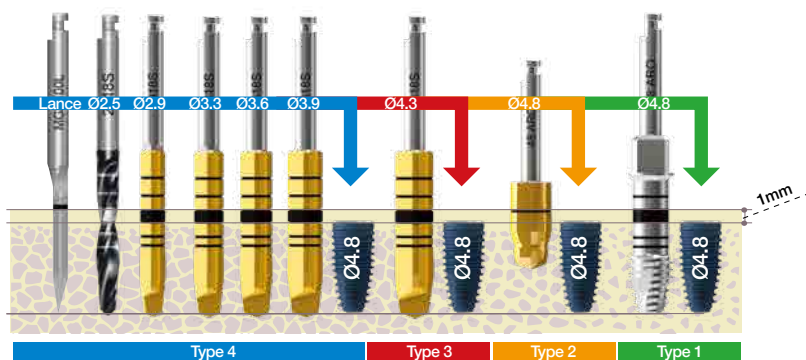
### Ø4.1 Fixture Drilling sequence



### Ø4.4 Fixture Drilling sequence



### Ø4.8 Fixture Drilling sequence

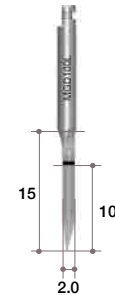


## ➡ Surgical Kit Components (continued)

### Lance Drill

- Useful for making an indentation in cortical bone to confirm exact drilling location

Diameter	Type	Ref.C
Ø2.0	Long	MGD100L

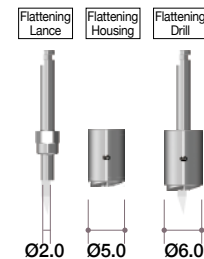


### Flattening Drill

- Flattens irregular bone & enables stopper drill to drill to exact depth
- Designed to engage with Flattening Lance & Housing. There are 2 kinds of Housing to match diameters of different final drills (Ø5.0 & Ø6.0)
- Ø5.0 = Stopper Drill Ø2.0 ~ Ø4.3
- Ø6.0 = Stopper Drill Ø4.8 ~ Ø5.4
- Housing boundary becomes barometer of drilling position for next fixture

Diameter	Length(mm)	Ref.C
Ø5.0 / Ø2.0	3.5	FD5020
*Ø6.0 / Ø2.0		FD6020

(\*) Separate sales item

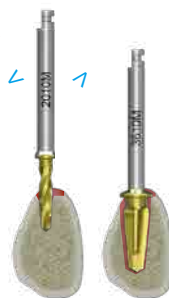


1



- Flattening Drill ensures correct drilling position for accurate fixture placement (If final drill diameter is from Ø2.0-Ø4.3, use Ø5.0 Housing, and if diameter is Ø4.8, Ø5.4 use Ø6 Housing)

2



- Drilling sequence should consider size of fixtures and bone density

3

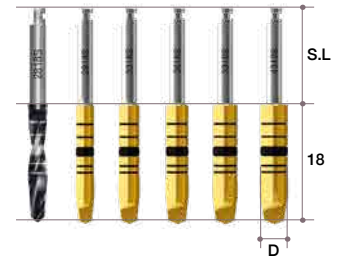


- Place fixtures using Handpiece & Ratchet Connector

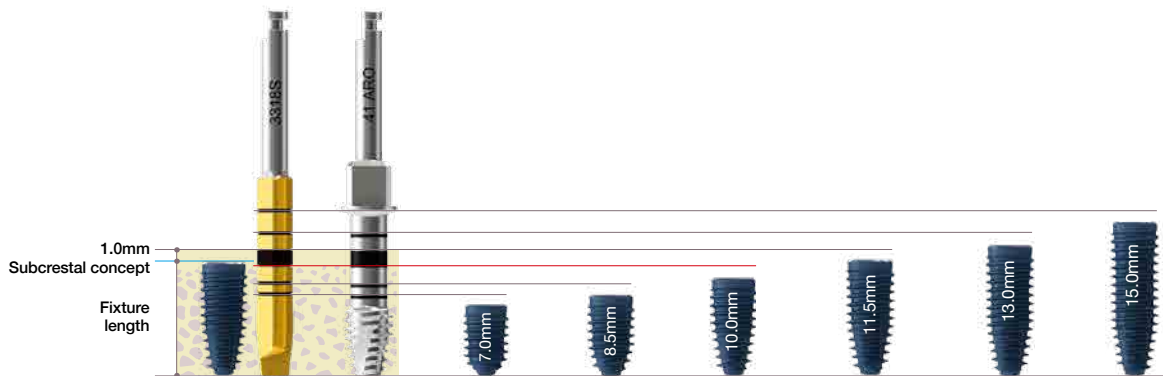
## Shaping Drills

- Each drill has depth marking lines from 7.0mm to 15.0mm
- Dual marking system (grooves & laser markings) provides visual & radiographic depth verification during surgery
- TiN coating on drills: enhanced corrosion resistance & abrasion resistance
- \* Actual drill length: drill length does not normally include Y dimension of drill
- \* Markings on Shapping Drills are 0.8mm longer than fixture, so fixtures will automatically be placed 1mm subcrestally if drilling protocol is followed

Diameter	Blade Length(mm)	Blade Length(mm)	Ref.C
Ø2.5	18	15(Short)	SD2518S
		25(Long)	*SD2518L
Ø2.9	18	15(Short)	AROSD2918S
		25(Long)	*AROSD2918L
Ø3.3	18	15(Short)	AROSD3318S
		25(Long)	*AROSD3318L
Ø3.6	18	15(Short)	AROSD3618S
		25(Long)	*AROSD3618L
Ø3.9	18	15(Short)	AROSD3918S
		25(Long)	*AROSD3918L
Ø4.3	18	15(Short)	AROSD4318S
		25(Long)	*AROSD4318L



(\*) Separate sales item

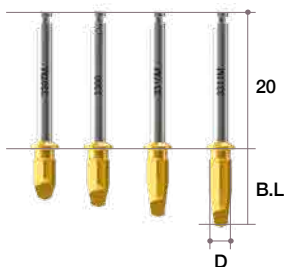




## ➔ Surgical Kit Components (continued)

### Stopper Drills

- Each diameter has drill lengths of 7.0 / 8.5 / 10 / 11.5mm
- TiN coating on drills: enhances corrosion resistance & abrasion resistance



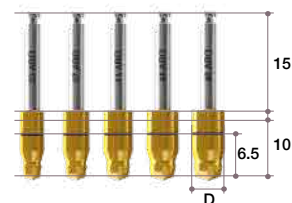
Diameter	Blade Length(mm)	Blade Length(mm)	Ref.C
Ø2.5	7.0	20	SD2507M
	8.5		SD2508M
	10		SD2510M
	11.5		SD2511M
Ø2.9	7.0		AROSD2907M
	8.5		AROSD2908M
	10		AROSD2910M
	11.5		AROSD2911M
Ø3.3	7.0		AROSD3307M
	8.5		AROSD3308M
	10		AROSD3310M
	11.5		AROSD3311M
Ø3.6	7.0		AROSD3607M
	8.5		AROSD3608M
	10		AROSD3610M
	11.5		AROSD3611M
Ø3.9	7.0	AROSD3907M	
	8.5	AROSD3908M	
	10	AROSD3910M	
	11.5	AROSD3911M	
Ø4.3	7.0	AROSD4307M	
	8.5	AROSD4308M	
	10	AROSD4310M	
	7.0	AROSD4311M	



### Cortical Bone Drills

- Used to remove & shape cortical bone to control initial stability in dense bone(type II)
- TiN coating on drills: enhances corrosion resistance & abrasion resistance

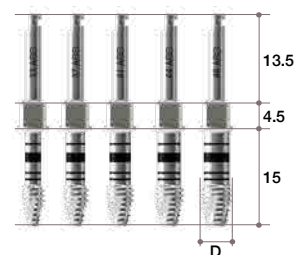
Diameter	Blade Length(mm)	Shank Length(mm)	Ref.C
Ø3.6	10	15	AROCD33
Ø4.0			AROCD37
Ø4.4			AROCD41
Ø4.7			AROCD44
Ø5.0			AROCD48



## Tap Drills

- Can be used with both Handpiece (dental implant engine) & Ratchet Wrench

Diameter	Marking	Ref.C
Ø3.3	7/ 8.5/ 10/ 11.5/ 13	AROTD33
Ø3.7		AROTD37
Ø4.1		AROTD41
Ø4.4		AROTD44
Ø4.8		AROTD48



## Handpiece Connectors

- Use with Handpiece to remove fixture from ampule & place fixture
  - Spring-type connection allows easy & secure pick-up & positioning of fixture
  - First mark on shaft indicates position of fixture platform
  - Bottom & top of black line is 3mm & 4mm from fixture platform, respectively
  - Especially useful in flapless surgery
- \* Use RC Connector as mount

Length (mm)	Type	Connection (mm)	Ref.C
5	Ultra-short	Octa. 2.05	AROHCU21
10	Short		AROHCS21
15	Long		AROHCL21
5	Ultra-short	Octa. 2.5	AROHCU25
10	Short		AROHCS25
15	Long		AROHCL25



## Ratchet Connectors

- Use for inserting or removing fixture with Ratchet Wrench
  - Check to make sure Ratchet Connector is completely seated in Ratchet Wrench before using
  - Excessive force can cause damage to internal Octa of fixture
  - Marks on shaft indicate position of fixture platform.
  - Bottom & top of black line is 3mm & 4mm from fixture platform, respectively
  - Especially useful in flapless surgery
- \* Use RC Connector as mount

Length (mm)	Type	Connection (mm)	Ref.C
5	Ultra-short	Octa. 2.05	ARORCU21
10	Short		ARORCS21
15	Long		ARORCL21
5	Ultra-short	Octa. 2.5	ARORCU25
10	Short		ARORCS25
15	Long		ARORCL25



## ➡ Surgical Kit Components (continued)

### Hand Drivers (1.2 Hex)

- Use with all Cover Screws, Abutment Screws, & Healing Abutments
- Available in 4 lengths for convenience
- Hand Driver can be directly inserted into Torque Wrench without using an adapter
- Hex tip can withstand 35-45Ncm of torque without distortion

Length(mm)	Type	Ref.C
5	*Ultra-short	TCMHDU1200
10	Short	TCMHDS1200
15	Long	TCMHDL1200
20	*Extra-long	TCMHDE1200

(\*) Separate sales item



### Removal Driver

Length(mm)	Type	Ref.C
21	M1.6	ARORDS16



1. Use Hand Driver(1.2 Hex) to unscrew Abutment Screw
2. Continue to turn counter-clockwise until you feel a click of disengagement
3. Push down Hand Driver once again to catch & fix Abutment Screw
4. Lift up Hand Driver lightly & continue to turn counter-clockwise until Abutment Screw engages with inner screw of abutment
5. Remove Abutment Screw completely from abutment
6. Insert 'Abutment Removal Driver' & continue to turn clockwise until abutment comes out of fixture. You may feel some resistance but don't worry, only simple force is needed to disconnect abutment from fixture

## Drill Extension

- Extends drills & other handpiece tools
- No more than 35Ncm torque: can be distorted when too much force is applied

Ref.C
MDE150



## Direction Indicator

- Confirms drilling direction & functions as parallel guide for additional osteotomies
- Each end of Direction Indicator has different diameter - Ø2.0 & Ø2.8.

Length (mm)	Ref.C
Ø2.0 / Ø2.8	MDI100

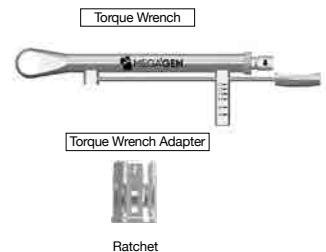


## Torque Wrench & Adapter

- Torque options range from 15Ncm to 45Ncm
- Used for placement of implant & final tightening of Abutment Screw

Type	Ref.C
Torque Wrench	TW70
*Torque Wrench Adapter (Handpiece)	TTAI100
*Torque Wrench Adapter (Ratchet)	TTAR100

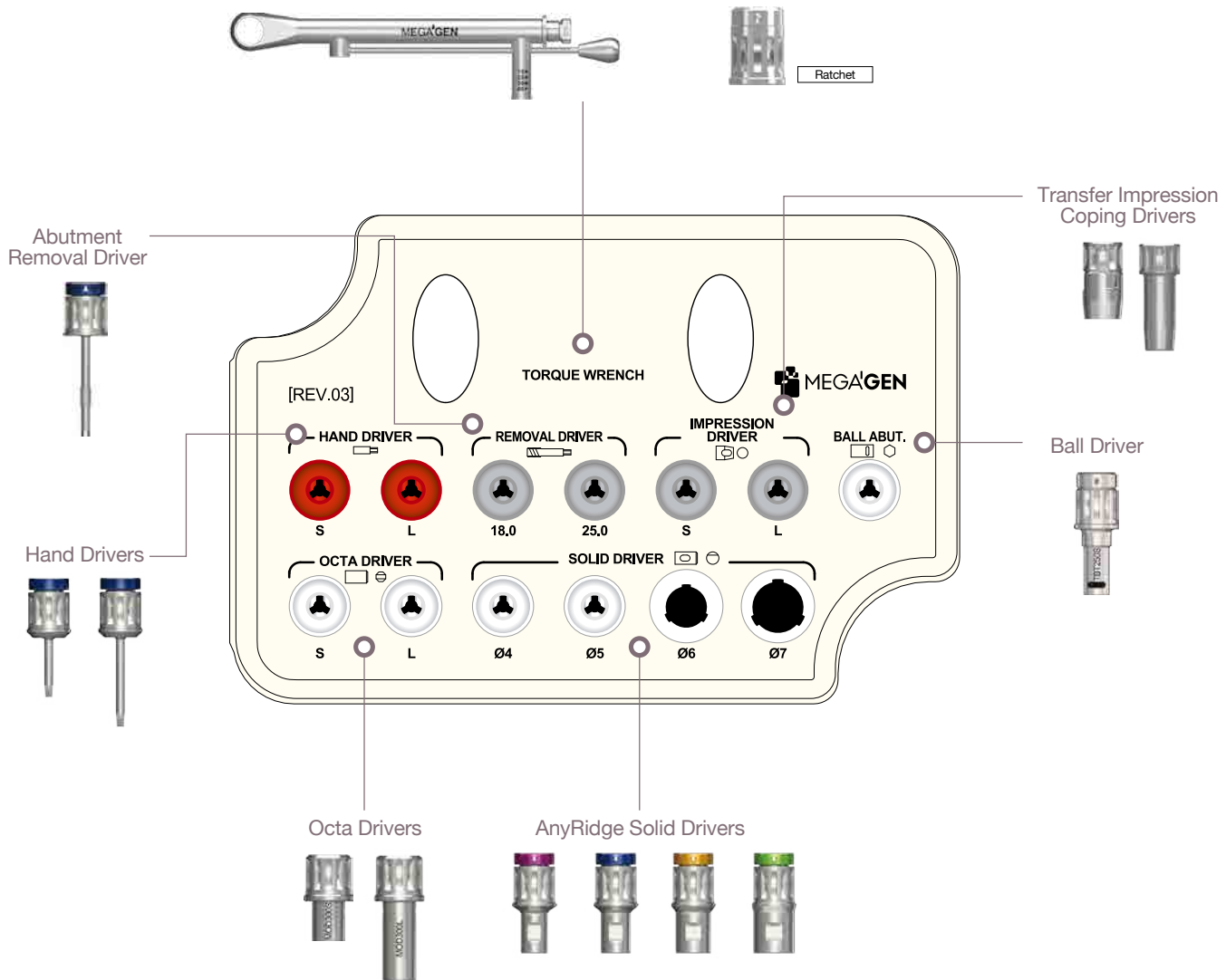
(\*) Separate sales item



# II. Prosthetic Kit

Ref.C  
KANPK3000

Includes all kinds of drivers needed for prosthetics



## ➔ Prosthetic kit Components

### Solid Drivers

- For delivery of Solid Abutments
- Color coded for different profile diameters (Ø4-magenta, Ø5-blue, Ø6-yellow, Ø7-green)
- Two different heights (8.5 / 13.5mm)
- Directly connectable to Torque Wrench

Solid Abutment Profile Diameter	Length(mm)	Ref.C
Ø4	8.5	TANSDS400
	13.5	*TANSDL400
Ø5	8.5	TANSDS500
	13.5	*TANSDL500
Ø6	8.5	TANSDS600
	13.5	*TANSDL600
Ø7	8.5	TANSDS700
	13.5	*TANSDL700

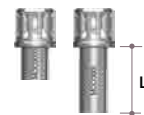


(\*) Separate sales item

### Octa Drivers

- For seating Octa Abutment into fixture
- Can also be connected to Torque Wrench

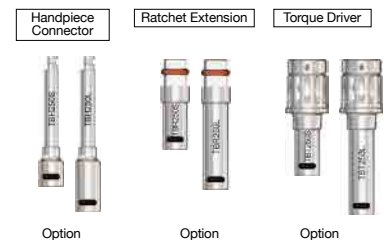
Length(mm)	Ref.C
7	MOD300S
13	MOD300L



### Ball Drivers

- For seating Ball Abutment into fixture
- Can connect to Handpiece, Ratchet or Torque Wrench
- Available as long or short

Type	Ref.C
*Handpiece Connector(Short)	TBH250S
*Handpiece Connector(Long)	TBH250L
*Ratchet Extension(Short)	TBR250S
*Ratchet Extension(Long)	TBR250L
*Torque Driver(Short)	TBT250S
Torque Driver(Long)	TBT250L

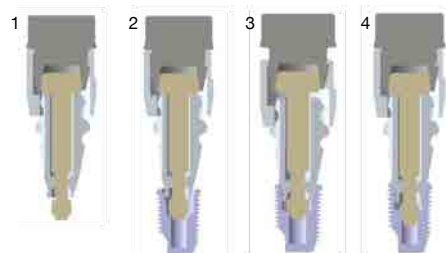


(\*) Separate sales item

### Impression Coping Drivers (Transfer)

- For transfer-type Impression Coping
- Works with friction only
- Small but powerful grip

Type	Ref.C
For two-piece impression coping	TCMID
For one-piece impression coping	TCMIDE



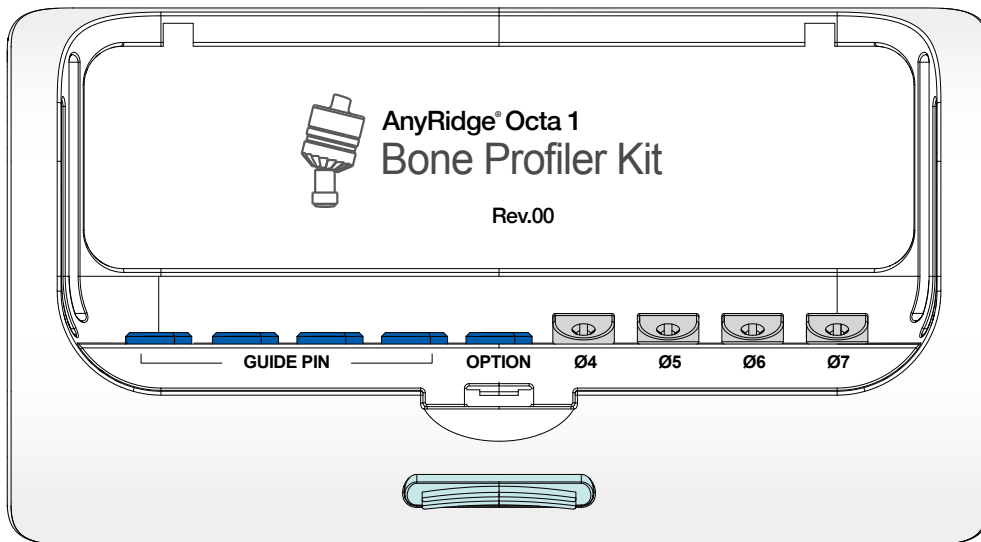
1. Connect Impression Coping & Impression Driver
2. Adjust connection with fixture by turning Holder clockwise
3. Push Holder and insert Impression Coping into fixture.
4. Turn Driver clockwise to ensure connection of Impression Coping & Fixture.

# III. Bone Profiler Kit

**Removes overhanging bone around fixture to allow adequate seating of Healing Abutment or Prosthetic Abutment**

Ref.C  
KAROBP3000

- Insert guide pin into fixture & select appropriate Bone Profiler
- Kit includes four different sizes of bone profiler & four guide pins



## Bone Profiler

- Guide pin(BPGP2) included
- Each bone profiler can be purchased separately as refill
- Each package includes bone profiler and package guide pin

Profile Diameter	Length (mm)	Ref.C
Ø4	13	AROBP40G
Ø5		AROBP50G
Ø6	8	AROBP60G
Ø7		AROBP70G





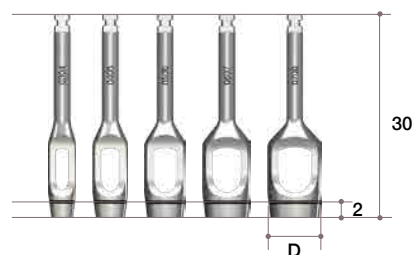
## IV. Optional Components (continued)

- not included in surgical kit
- may be purchased separately & placed in spaces provided in surgical kit

### Tissue Punches

- Customized to remove soft tissue using osteotomy socket & useful for flapless surgery
- Easy to identify thickness of soft tissue by comparing tissue with laser marking at height of 2mm
- Can minimize loss of soft tissue when conducting flapless surgery
- Can stop bleeding when used with Healing Abutment

Diameter	Marking	Ref.C
In. Ø3 / Out. Ø4	2mm	TCMTPM0304
In. Ø4 / Out. Ø5		TCMTPM0405
In. Ø5 / Out. Ø6		TCMTPM0506
In. Ø6 / Out. Ø7		TCMTPM0607
In. Ø7 / Out. Ø8		TCMTPM0708



### Lindermann Drill

- Cross cut on drill
- Can correct path during drilling

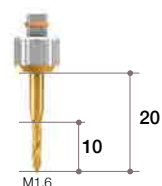
Diameter(mm)	Ref.C
2	TEEL200M



### Hand Tap

- Useful when internal screw of fixture has been damaged
- For re-tapping disabled thread
- Caution: use of excessive force can cause further damage, so apply force slowly & gradually
- M1.6 can be used for AnyOne's External fixtures with Small Sizes

Length(mm)	Type	Ref.C
10	M1.6	THT160L



### Ratchet Wrench

- Used to exert more force than handpiece
- No bearing system: no breakage or corrosion problems
- Attaches to Ratchet Extension
- Arrow laser marking indicates direction of force

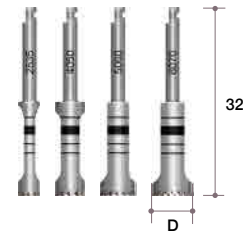
Ref.C
MRW040S



## Trephine Burs

- Minimizes drilling steps especially for wider fixtures
- Helpful for collecting autogenous bone
- Useful for removing failed & fractured fixtures
- Depth markings are 7, 8.5, 10, 11.5, 13mm, same depths as fixtures. (no Y dimension, so markings are actual length)
- Markings on drill shaft represent inside / outside diameter of Trephine Burs

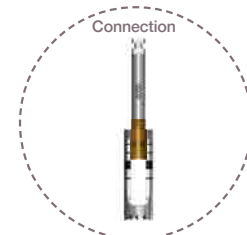
Diameter	Type	Ref.C
Ø3.5 (in Ø2.5)	Short	TANTBL2535
Ø5.0 (in Ø4.0)		TANTBL4050
Ø6.0 (in Ø5.0)		TANTBL5060
Ø7.0 (in Ø6.0)		TANTBL6070
Ø3.5 (in Ø2.5)	Long	TANTBE2535
Ø5.0 (in Ø4.0)		TANTBE4050
Ø6.0 (in Ø5.0)		TANTBE5060
Ø7.0 (in Ø6.0)		TANTBE6070



## Trephine Bur Stoppers

- Controls depth of trephination
- Especially useful in cases with limited available bone

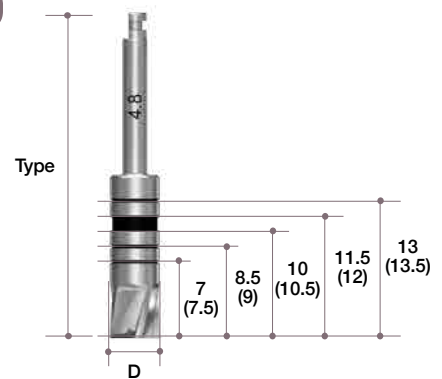
Length (mm)	Ref.C
7.0	TANTSF2307
8.5	TANTSF2308
10.0	TANTSF2310
11.5	TANTSF2311



## Bottom Drill

- Removes remaining bone in osteotomy socket after trephine drilling
- Imprints fixtures size, for example 7, 8.5, 10, 11.5 & 13mm, using laser marker

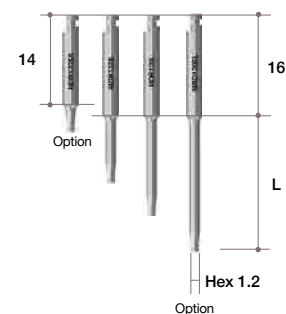
Diameter	Type	Ref.C
Ø3.3	Short (32mm)	TCMBDS33
Ø3.8		TCMBDS38
Ø4.8		TCMBDS48
Ø5.8		TCMBDS58
Ø6.8		TCMBDS68
Ø3.3	Long (38mm)	TCMBDL33
Ø3.8		TCMBDL38
Ø4.8		TCMBDL48
Ø5.8		TCMBDL58
Ø6.8		TCMBDL68



## Right Angle Drivers (hex 1.2)

- Can be engaged with Cover Screws, Abutment Screws, & Healing Abutment
- Hex tip has been designed to stand Torque force of 35~45 Ncm
- Used with AnyOne Internal & External

Length(mm)	Type	Ref.C
4	*Ultra-short	MDR120SS
10	Short	MDR120S
15	Long	MDR120L
20	*Extra Long	MDR120EL



## Insert Drivers (hex 1.2)

- Can be engaged with Cover Screws, Abutment Screws, & Healing Abutment
- Hex tip has been designed to stand Torque force of 35~45 Ncm

Length(mm)	Type	Ref.C
10	Short	MID120S
15	Long	MID120L



## Reamer Drill & Center Pins

- Removes inner lip of cast after casting Burn-out Cylinders of Solid Abutment
- Center pins have 4 different diameters according to profile diameter of Solid Abutment

Diameter	Type	Ref.C
Ø10.0	Reamer Drill	TANRD
Ø4.0	Center Pin	TANRDJ40
Ø4.5		TANRDJ50
Ø5.5		TANRDJ60
Ø6.5		TANRDJ70



## Slot Drivers (Slotted type)

- Useful for placement or removal of AnyOne Healing Abutment which has slot on top

Length(mm)	Type	Ref.C
10	Short	SDS06
15	Middle	SDM06
20	Long	SDL06



# Digital Dentistry

## I. MegaGen Digital WorkFlow

### • Digital Equipment



R2 STUDIO



Intra-Oral Scanner

### 3D Imaging



NEXT Unit chair



Transformer

### • Materials



R2TRAY



SCAN Abutment

### • Dentist value

x. planning & Design

In-lab Equipment



R2GATE®



Meg Printer II



Ti CAM - PRO



WHITE CAM - PRO



Surgical KIT



Resin



TiGEN



ZrGEN



R2 Package



Blocks



R2GATE Guided surgery & ONE-DAY Implant™



R2GATE Guide™



Ti. CUSTUM



Zr. CUSTUM



Provisional



Prosthesis

# II. R2GATE®

**Innovative diagnostic software that analyses the total oral condition to determine the optimal position for implant treatment**

**Integrating all information required for prosthesis-driven (top-down) implant positioning**

- prosthetic design
- skeletal information
- gingival form
- occlusal relationship

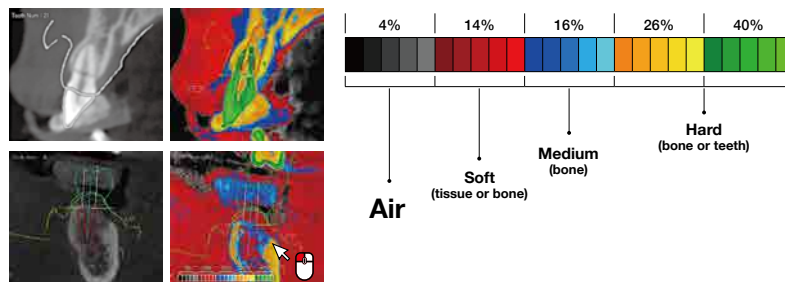
**Creating the reality of ONE-DAY IMPLANTS**

- accurate predictive diagnosis
- reduced chair-time
- minimally invasive surgery
- immediate loading
- excellent clinical results

## Digital EYE™

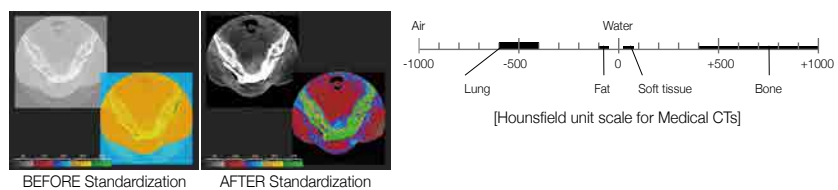
### Colour-coded analysis of bone morphology

While CBCT is the most efficient method for identifying the shape of the bone and other skeletal structures, the human eye can only detect around 15 (~5%) of the 256 shades of B&W represented in a CBCT scan. Therefore, Digital EYE converts the CBCT greyscale into full colour with a standardized brightness, allowing intuitive analysis of the bone condition so as to position and size the implant, determine the drill sequence, and predict the initial stability for immediate loading.



### Standardized brightness

A special windowing function standardizes the brightness levels from different CT equipment using the Hounsfield unit scale



## ONE-DAY Implant™

### An effective reality!

R2GATE treatment planning enables the **pre-fabrication of customized implants and prosthetics before surgery**, thereby reducing the chair-time, minimizing the surgical procedures, and allowing for immediate loading

- **Fixture delivery**

Fixture is delivered through R2GATE Guide™ using handpiece carrier

- **Fixture depth control**

Align upper line of handpiece carrier with R2GATE Guide™ window



- **Hex position control**

Align green part of handpiece carrier with R2GATE Guide™ window in buccal direction)










### Recommended conditions for immediate loading

Based on extensive clinical trials, two key values need to be checked: insertion torque & implant stability quotient (ISQ)



Insertion torque: > 45Ncm  
ISQ: > 75

### Customized prosthetics:

<b>Cementation</b>	 <ul style="list-style-type: none"> <li>- Stock/customized TiBase abutment</li> <li>- 3D-printed or milled PMMA temporary</li> <li>- Indication: single or 3 unit bridge</li> </ul>	 
<b>Screw-retained</b>	 <ul style="list-style-type: none"> <li>- Stock/customized TiBase abutment</li> <li>- 3D-printed or milled PMMA temporary</li> <li>- Indication: multi-unit bridge/ non-hex</li> </ul>	 
<b>Overdenture</b>	 <ul style="list-style-type: none"> <li>- Stock/customized TiBase abutment</li> <li>- 3D-printed or milled denture</li> <li>- Indication: edentulous case</li> </ul>	 

# III. R2GATE Guide™

Virtual planning to reality!  
Highly accurate & convenient

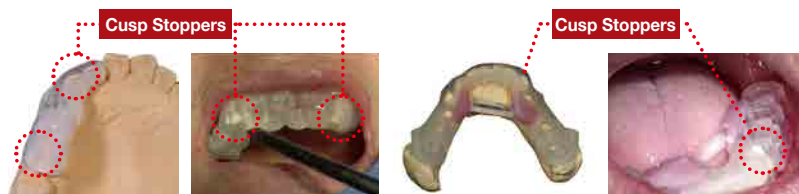
- 3D printed based on approved treatment plan
- One body, combining implant position guide, drill stopper, & hex control
- No metal sleeve or spoons



## R2GATE Guide™ Seating Options

### Tooth & tissue support

R2GATE Guide™ is seated using 'cusp stoppers' for neighboring teeth



### Tissue-only support (edentulous case)

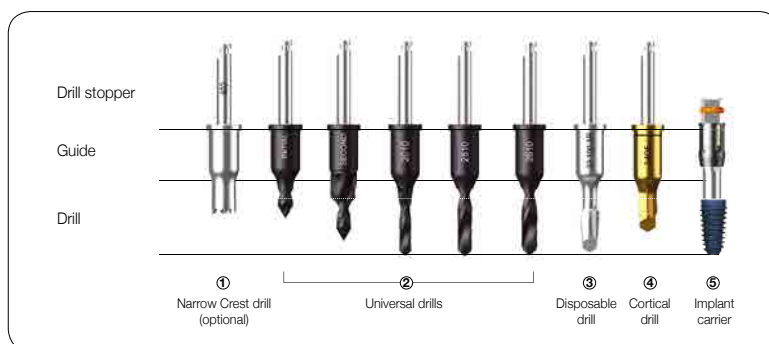
R2GATE Guide™ is seated using putty bite with specially designed anchor pins





## R2GATE Guided Drilling

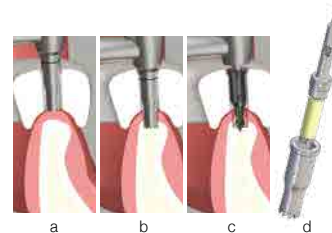
- Drill, drill stopper, & guide are all combined into one body
- No need for metal sleeve or spoons
- Shorter surgery time!
- Customized disposable final drill is provided for each surgery to optimize initial stability



### Narrow Crest drill for narrow or steep alveolar ridge

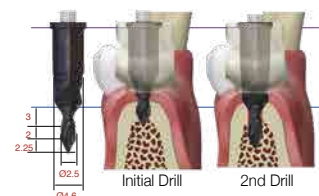
In the case of a narrow or steep alveolar ridge, use a narrow crest drill first to flatten the drilling area to avoid slipping

- First, drill counter-clockwise at low speed ( $\leq 100$ rpm)
- Then drill clockwise (400~600rpm)
- Once bone is flat, continue with drilling protocol
- Bone can be collected by separating drill body after drilling



### 2<sup>nd</sup> drill

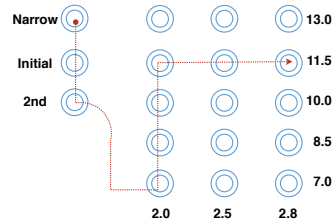
The 2<sup>nd</sup> drill also works as a profiler to remove excess bone above the fixture platform for a better prosthetic connection. If the bone is very dense or resistant during drilling, stop using the 2<sup>nd</sup> drill and use again right before fixture placement.



### Drilling protocol

The drilling protocol gradually increases the depth & width of the osteotomy, and is essential for successful surgery

E.g. Drilling protocol for 11.5mm length fixture  
 Narrow drill ▶ initial Drill ▶ 2nd drill ▶ 2.0x7 ▶ 2.0x8.5 ▶  
 2.0x10 ▶ 2.0x11.5 ▶ 2.5x11.5 ▶ 2.8x11.5 ▶ Final drill ▶  
 Cortical bone drill



### Drilling in drill core

Before drilling, check that the drill guide is fully inserted into the drill core of the guide.

Recommended RPM [300 ~ 500 RPM]



### Slow UP & DOWN motion

The drilling action should be a slow repeated up & down motion until the drill stopper touches the stopper position in the guide.



# IV. R2GATE Universal Kit

Ref.C  
KAGUN3000

The R2GATE Universal Kit includes a basic set of drills that can be used with any implant system.

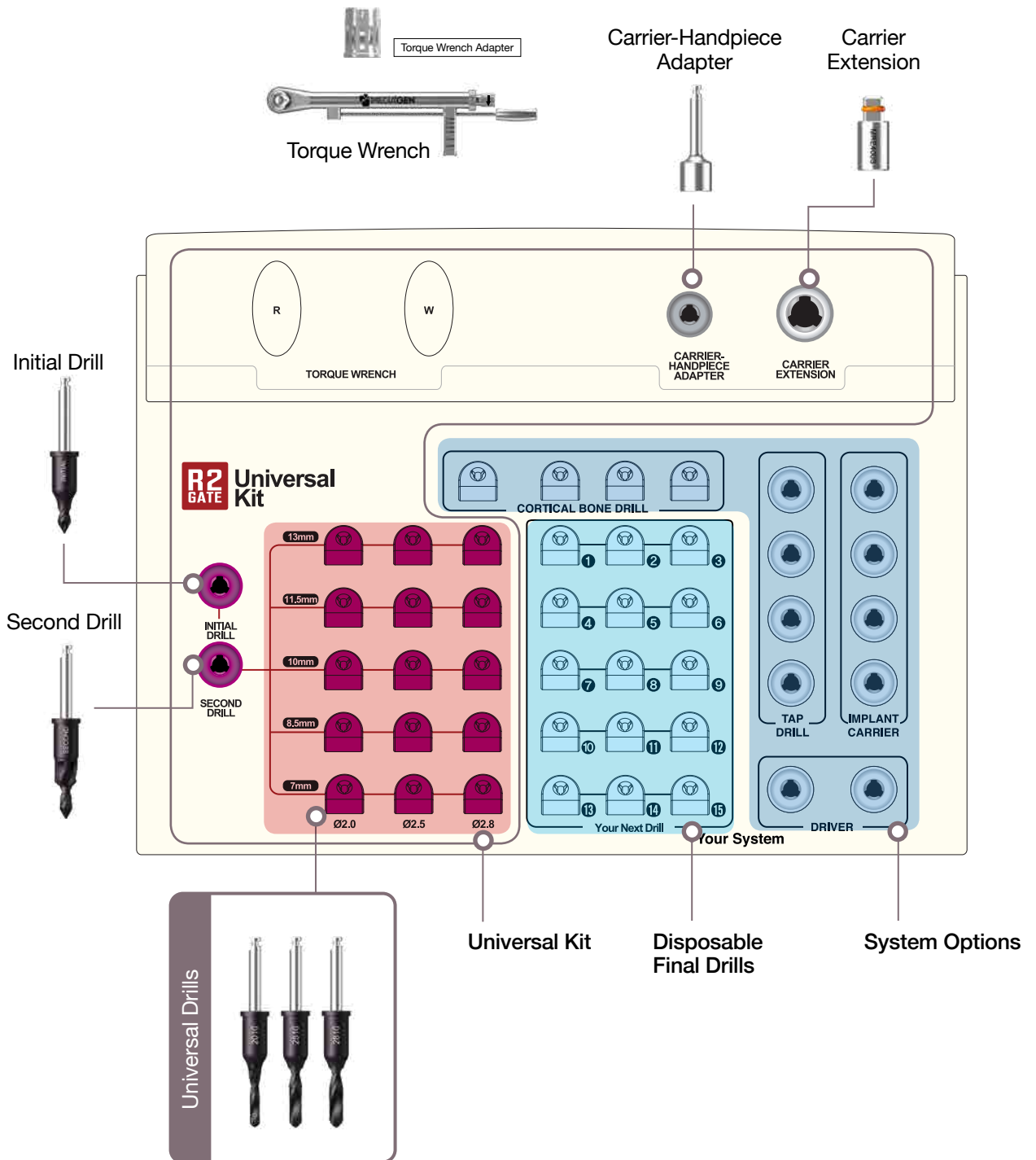
You can also add special options, such as an Implant Carrier, Cortical Bone Drill, or Tap Drill for use with your favorite implant system.

The final drill specifications are determined according to the R2GATE treatment planning and delivered along with the R2GATE surgical guide.



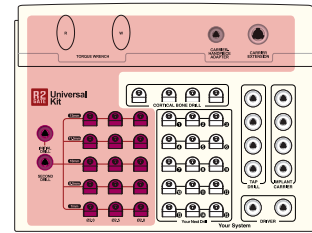
Product coordinator : Jung Ho Nam,  
kkangtong@megagen.co.kr

## ➔ R2GATE Universal Kit



# ➔ Drills & Components of R2GATE Universal Kit

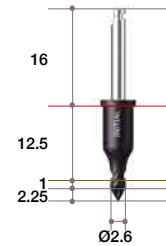
Basic drilling set for any implant system, consisting of initial drill, 2nd drill, universal drills, and essential tools



## Initial Drill

- Use initial drill to mark drilling position on bone.
- Start drilling slowly when drill guide is fully connected to drilling core of R2GATE Guide™
- Recommended drilling speed range is 300 ~ 800 RPM with copious irrigation

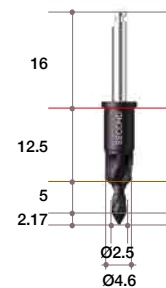
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.6	Ø5.0	1.0	R2ID2601



## Second Drill

- Unique step-drill (Ø2.0 – Ø4.6) used to flare upper cortical bone of osseotomy
- Helps drilling procedure & abutment connection
- In case of hard bone, if 2nd drill is blocked by thick cortical bone, retry after completion of drilling protocol

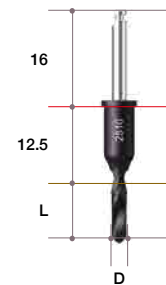
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.5	Ø5.0	5.0	R2SD2505



## Stopper Drills

- Drill diameters include Ø2.0, Ø2.5, & Ø2.8 for gradual enlargement of osteotomy
- Drill lengths include 7.0, 8.5, 10.0, 11.5, & 13mm to accommodate lengths of most implant systems
- Recommended drilling speed range is 500 ~ 800 RPM with copious irrigation

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.0	Ø5.0	6.5	R2SD2007
		8.0	R2SD2008
		9.5	R2SD2010
		11.0	R2SD2011
		12.5	R2SD2013
Ø2.5	Ø5.0	6.5	R2SD2507
		8.0	R2SD2508
		9.5	R2SD2510
		11.0	R2SD2511
		12.5	R2SD2513
		12.5	R2SD2513
Ø2.8	Ø5.0	6.5	R2SD2807
		8.0	R2SD2808
		9.5	R2SD2810
		11.0	R2SD2811
		12.5	R2SD2813



## Carrier-Handpiece Adapter

- Useful for implant placement following initial fixture delivery with ratchet-type fixture carrier

Square	Ref.C
4.0	AGHA



## Carrier Extension

- Use to extend length of implant carrier

Square	Ref.C
4.0	MRE400S



## Torque Wrench & Adapter

- Torque options from 15Ncm to 45Ncm
- Used for placement of implant & final tightening of Abutment Screw

Type	Ref.C
Torque Wrench	TW70
Torque Wrench Adapter(Ratchet)	TTAR100

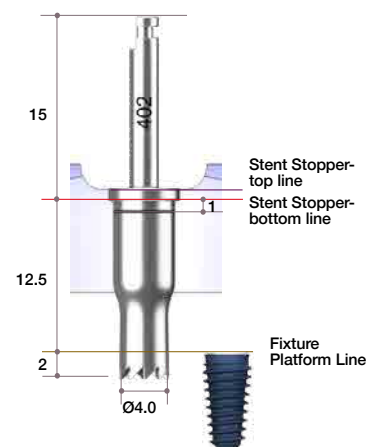
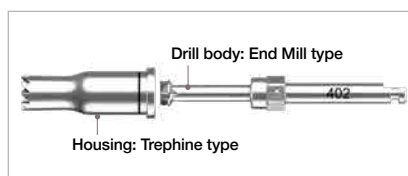


## Optional Instruments

### Narrow Crest Drill

- Used when the fixture is placed at a slant or to flatten a sloping surface of a narrow ridge to prevent slipping during drilling
- 2-piece design: drill body & housing
- Can be disassembled
- Easy to clean and remove bone chips
- Can be used to harvest autogenous bone if applied to soft tissue

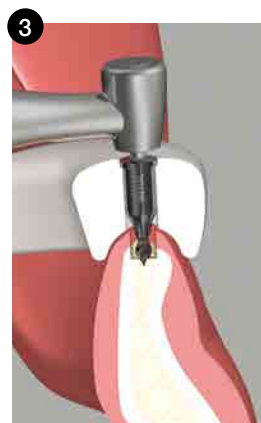
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø4.0	Ø5.0	15.5(12.5/2)	NCD402



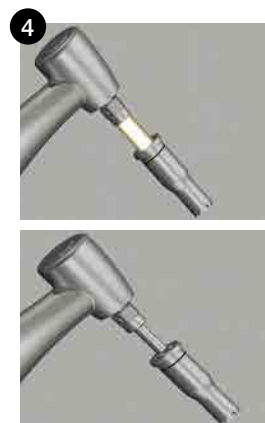
1 Set site by drilling counter-clockwise at low speed ( $\leq 100$ rpm)



2 Start drilling clockwise (400~600rpm)



3 Once bone is flat, continue with proper drilling sequence.



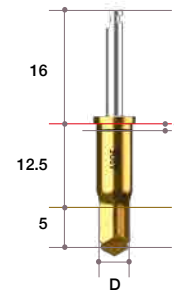
4 After drilling, disassemble body & housing to remove bone chip. Clean & sterilize after every use.

## ➔ System Options for Octa 1

### Cortical Bone Drill

- Recommended drilling speed: 300 ~ 800 RPM

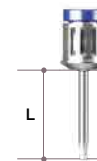
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.4	Ø5.0	5.0	R2CD3405
Ø3.8			R2CD3805
Ø4.3			R2CD4305
Ø4.8			R2CD4805



### Hand Drivers (1.2 Hex)

- Used for all Cover Screws, Abutment Screws, and Healing Abutments
- Available in 4 lengths for added convenience
- Hand Driver can be directly inserted into Torque Wrench without using adaptor
- Hex tip can withstand 35-45Ncm of torque without distorting

Length(mm)	Type	Ref.C
5.0	*Ultra-short	TCMHDU1200
10	Short	TCMHDS1200
15	Long	TCMHDL1200
20	*Extra-long	TCMHDE1200

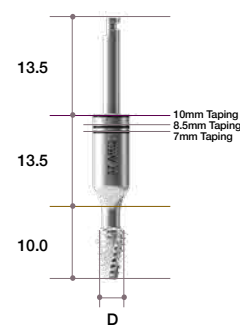


(\*) Separate sales item

### Tap Drills

- This drill is used to test the insertion before placing the fixture, as required by some implant systems
- To avoid any enlargement of osteotomy, select tap drill one size smaller
- Recommended insertion torque is 45-50Ncm at speed under 40RPM

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	9.5	R2TD33ARO
Ø4.0			R2TD37ARO
Ø4.4			R2TD41ARO
Ø4.7			R2TD44ARO
Ø5.0			R2TD48ARO



### Implant Carriers

- Use to extract fixture from ampule, then insert fixture in osteotomy and turn clockwise 2 – 3 times manually
- Once engaged in the osteotomy, connect Handpiece Adaptor & use implant motor
- Recommended insertion torque is 45-50Ncm

Connection	Guide Diameter	Type	Ref.C
2.1 Octa	Ø5.0	Ratchet	ICRO2127
2.5 Octa			ICRO2530



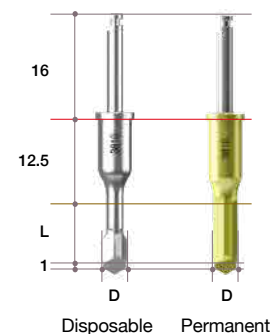
## ➔ Final Drill Options [Disposable or Permanent]

### Stopper Drills[Straight]

For all implant systems

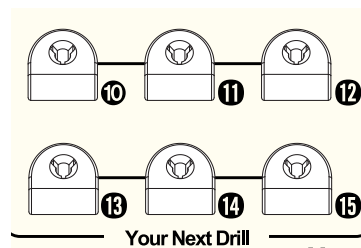
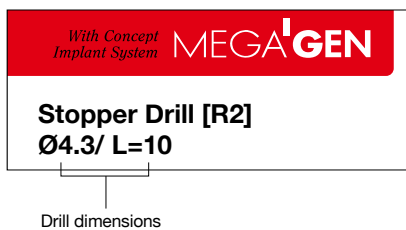
- Common used
- Step-back-type drilling
- Provided by local R2GATE Design Center, sizes are according to treatment plan, fixture size, & bone density
- Recommended drilling speed is 300 – 800 RPM
- Final drills
- Base can be disposable or permanent

Diameter	Guide Diameter	Length(mm)	Permanent Ref.C	Disposal Ref.C
Ø3.4		7.0	R2PS3407	R2DS3407
		8.0	R2PS3408	R2DS3408
		9.0	R2PS3409	R2DS3409
		10.0	R2PS3410	R2DS3410
		11.0	R2PS3411	R2DS3411
		12.0	R2PS3412	R2DS3412
		13.0	R2PS3413	R2DS3413
Ø3.8	Ø5.0	7.0	R2PS3807	R2DS3807
		8.0	R2PS3808	R2DS3808
		9.0	R2PS3809	R2DS3809
		10.0	R2PS3810	R2DS3810
		11.0	R2PS3811	R2DS3811
		12.0	R2PS3812	R2DS3812
		13.0	R2PS3813	R2DS3813
Ø4.3		7.0	R2PS4307	R2DS4307
		8.0	R2PS4308	R2DS4308
		9.0	R2PS4309	R2DS4309
		10.0	R2PS4310	R2DS4310
		11.0	R2PS4311	R2DS4311
		12.0	R2PS4312	R2DS4312
		13.0	R2PS4313	R2DS4313
Ø4.8		7.0	R2PS4807	R2DS4807
		8.0	R2PS4808	R2DS4808
		9.0	R2PS4809	R2DS4809
		10.0	R2PS4810	R2DS4810
		11.0	R2PS4811	R2DS4811
		12.0	R2PS4812	R2DS4812
		13.0	R2PS4813	R2DS4813
Ø5.3	Ø6.5	7.0	R2PS5307	R2DS5307
		8.0	R2PS5308	R2DS5308
		9.0	R2PS5309	R2DS5309
		10.0	R2PS5310	R2DS5310
		11.0	R2PS5311	R2DS5311
		12.0	R2PS5312	R2DS5312
		13.0	R2PS5313	R2DS5313
Ø5.8		7.0	R2PS5807	R2DS5807
		8.0	R2PS5808	R2DS5808
		9.0	R2PS5809	R2DS5809
		10.0	R2PS5810	R2DS5810
		11.0	R2PS5811	R2DS5811
		12.0	R2PS5812	R2DS5812
		13.0	R2PS5813	R2DS5813



## Drill positions in kit

- Each disposable drill is numbered to clarify its position in kit
- Check drill size & number, then install in correct position in kit



## Sterilized packaging

- All disposable drills are packaged in clean room facilities & sterilized using gamma rays
- Before opening, check sterilized seal
- Open at operation site before surgery





## Must-have Accessory Kit

### R2GATE Narrow Guide Kit for MINI implant system

With Ø3.5mm core drills, this kit is especially designed to overcome narrow surgical areas, including anterior mandibular & close adjacent teeth or implants



### R2GATE Anchor Kit for fixation of fully edentulous guide

R2GATE Anchor kit is used to fix R2GATE Guide for fully edentulous case.



[Anchor Pin ]

#### Anchor Pin:

Combine R2GATE Guide & Putty Bite, put in patient's mouth, and let patient bite firmly

Insert anchor pins into anchor holes in R2Guide & fix them using driver

If bone density is hard, slight drilling with 2.0 x 13.0mm drill will be helpful for better fixation



#### Anchor Screws:

For fully edentulous guide, placing fixtures & connecting anchor screws in triangular form is highly recommended for better fixation, as in image below.



[Anchor Screws ]



In edentulous case with placement of both regular & wide fixtures, R2GATE provides 2 guides & anchor screws maintain same fixation position for both guides

# V. Digital Materials & Equipment

## 1. ZrGEN®

### Variety



### Sub Structure

### Clinical Application



## 2. TiGEN®

- TiGEN® is brand name of MegaGen titanium customized abutment
- It promises outstanding durability & simplified dental implant prostheses
- Ready-made connection provides strong & precise connection with implant fixture



## ZrGEN Abutments

- Pre-milled abutments
- 1Set(=Abutment 10ea)
  - 1 set includes 10 abutments+11 abutment screws
- Supporting Dental CAD
  - 3Shape
  - Exocad
  - Dental Wings



**NC**

Profile Diameter	Cuff Height (mm)	Post Height(mm)	Ref.C
Ø4.0	0.6	4.5	AROZGN4015.MTN
	1.5		AROZGN4025.MTN
	3.0		AROZGN4035.MTN
	4.0		AROZGN4045.MTN
	0.6	6.0	AROZGN4016.MTN
	1.5		AROZGN4026.MTN
	3.0		AROZGN4036.MTN
	4.0		AROZGN4046.MTN
	0.6	8.0	AROZGN4018.MTN
	1.5		AROZGN4028.MTN
	3.0		AROZGN4038.MTN
	4.0		AROZGN4048.MTN

**RC**

Profile Diameter	Cuff Height (mm)	Post Height(mm)	Ref.C
Ø4.5	0.6	4.5	AROZGR4515.MTN
	1.5		AROZGR4525.MTN
	3.0		AROZGR4535.MTN
	4.0		AROZGR4545.MTN
	0.6	6.0	AROZGR4516.MTN
	1.5		AROZGR4526.MTN
	3.0		AROZGR4536.MTN
	4.0		AROZGR4546.MTN
	0.6	8.0	AROZGR4518.MTN
	1.5		AROZGR4528.MTN
	3.0		AROZGR4538.MTN
	4.0		AROZGR4548.MTN

## WHITE-CAM PRO

### WHITE-CAM PRO SPECIFICATIONS

Axis	5
Spindle	500W, 42,500 RPM
Tooling	0.6 / 1.0 / 2.0, 7ea Auto change
Operation	Built-in PC
Milling time	25 min for single crown
Specs	W600 x D600 x H840 mm Weight: 145kg/ Dry milling



### Precise 5-axis milling machine

- High-end 5-axis milling machine
- All-dry milling materials
  - : PMMA, Zirconia, Wax, Ultimate
- Full-arch restoration
- Dentures
- Customized abutments



PMMA Block



ZIRCONIA

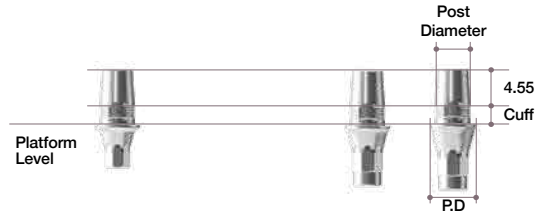


Wax Block

## ZrGEN Abutments (C-type)

- Abutment Screw included.
- . AnyRidge (AANMSF)
- . AnyOne (AS20)

- Scan Post for Sirona Cerec users -- CEREC
- In in Lab CAD Software, compatible with
- Xive Library



NC

Profile Diameter	Cuff Height (mm)	Post Height(mm)	Ref.C
Ø3.9	0.5	Small	AROCSN3405.MTN
	1.0		AROCSN3410.MTN
	2.0		AROCSN3420.MTN
Ø4.3	0.5	Small	AROCSN3805.MTN
	1.0		AROCSN3810.MTN
	2.0		AROCSN3820.MTN

RC

Profile Diameter	Cuff Height (mm)	Post Height(mm)	Ref.C
Ø3.9	0.5	Small	AROCSR3405.MTN
	1.0		AROCSR3410.MTN
	2.0		AROCSR3420.MTN
Ø4.3	0.5	Small	AROCSR3805.MTN
	1.0		AROCSR3810.MTN
	2.0		AROCSR3820.MTN
Ø5.5	0.5	Large	AROCLR4505.MTN
	1.0		AROCLR4510.MTN
	2.0		AROCLR4520.MTN

## WHITE-CAM WET

### WHITE-CAM PRO SPECIFICATIONS

Axis	5
Spindle	500W, 42,500 RPM
Tooling	0.6 / 1.0 / 2.0, 7ea Auto change
Operation	Built-in PC
Milling time	25 min for single crown
Specs	W600 x D600 x H840 mm Weight: 145kg/ Dry milling



### Pragmatic 4-axis milling machine

- Simple but powerful functions.
- All-white milling materials:  
PMMA, WAX, Hybrid ceramic, Glass ceramic, E-Max
- Ø0.6, Ø1.0, Ø2.0mm drills
- Faster milling time (25min/ single)



PMMA Block



Wax Block



Glass Ceramic



Composite Resin

## TiGEN Abutments

- Pre-milled abutments
- 1Set(=Abutment 10ea)
  - 1 set includes 10 abutments+11 abutment screws
- Supporting Dental CAD
  - 3Shape
  - Exocad
  - Dental Wings

NC			RC		
Profile Diameter	Color	Ref.C	Profile Diameter	Color	Ref.C
Ø10	Gold	AROTGN1020.MTN	Ø10	Silver	AROTGR1020.MTN
Ø12		AROTGN1220.MTN	Ø12		AROTGR1220.MTN

## Ti-CAM PRO

### TI-CAM PRO SPECIFICATIONS

Axis/ Speed	4 / S-servo 42,500 RPM
Materials	Titanium preformed abutment
Tooling	1.5 / 2.5mm
Operation	Built-in PC
Milling time	25 min / 45min
Specs	W600 x D600 x H840mm/ 145Kg



### Perfect for customized abutments

- Simple but powerful function
- Perfect for Ti-customized abutments
- Strong & precise milling ability
- Faster milling time (25min)



- Dual jig holder
- Auto support cutting
- 3 pre-milled abutment loading

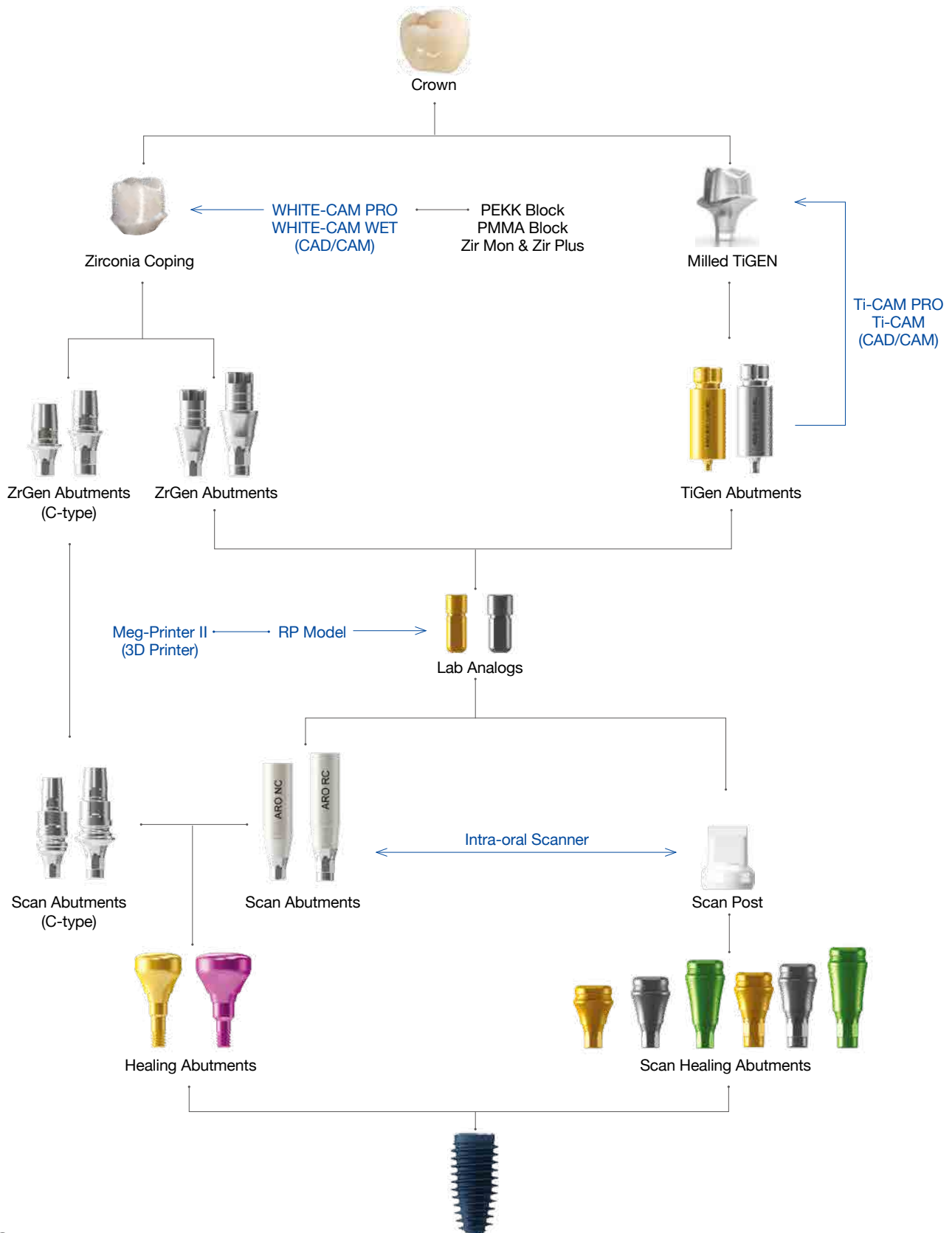


TiGEN abutments



## V. Digital Materials & Equipment

# 3. Abutment & Prosthetic Options

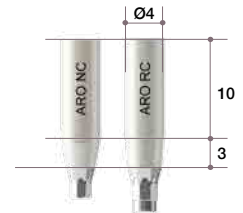


## Scan Abutments

- Abutment screw(AROAS16B/ AROAS16) included

- For chairside/ labside
- Spare Abutment Screw included
- Supporting Dental CAD
  - 3 Shape
  - Exocad
  - Dental Wings

Profile Diameter	Height(mm)	Ref.C
Ø4.0	13	AROSANT
		AROSART



## Scan Abutments (C-type)

- Abutment screw(AROAS16B/ AROAS16) included

- Scan post for Sirona Cerec users -> CEREC
- In Lab CAD software, compatible with Xive Library



NC

Profile Diameter	Cuff Height (mm)	Post Size (mm)	Ref.C
Ø3.9	0.5	Small	AROCSS3405NT
	1.0		AROCSS3410NT
	2.0		AROCSS3420NT
Ø4.3	0.5		AROCSS3805NT
	1.0		AROCSS3810NT
	2.0		AROCSS3820NT

RC

Profile Diameter	Cuff Height (mm)	Post Size (mm)	Ref.C
Ø3.9	0.5	Small	AROCSS3405RT
	1.0		AROCSS3410RT
	2.0		AROCSS3420RT
Ø4.3	0.5		AROCSS3805RT
	1.0		AROCSS3810RT
	2.0		AROCSS3820RT
Ø5.5	0.5	Large	AROCSL4505RT
	1.0		AROCSL4510RT
	2.0		AROCSL4520RT

## Scan Healing Abutments

- S.H.A. screw included  
(AROHS1604/ AROHS1605/ AROHS1607)

- Obtain scan data without removing scan healing abutment from scan post
- Spare Abutment Screw included
- Different colors depending on system
- Scan healing abutment should be exposed 2.0mm above surgical site for accurate scanning
- Select Scan Post based on diameter of Scan Healing Abutment
- Scan Post is disposable product & sold separately in batch of 10EA



NC

Profile Diameter	Scan Post	Height (mm)	Ref.C
Ø4.0	SP4007.MTN	4	AROISHN4004T
		5	AROISHN4005T
		7	AROISHN4007T
Ø5.0	SP5007.MTN	4	AROISHN5004T
		5	AROISHN5005T
		7	AROISHN5007T

RC

Profile Diameter	Scan Post	Height (mm)	Ref.C
Ø4.0	SP4007.MTN	4	AROISHR4004T
		5	AROISHR4005T
		7	AROISHR4007T
Ø5.0	SP5007.MTN	4	AROISHR5004T
		5	AROISHR5005T
		7	AROISHR5007T
Ø6.0	SP6007.MTN	4	AROISHR6004T
		5	AROISHR6005T
		7	AROISHR6007T
Ø7.0	SP7007.MTN	4	AROISHR7004T
		5	AROISHR7005T
		7	AROISHR7007T

## Scan Post Carrier

Profile Diameter	Height(mm)	Ref.C
Ø4.0	19	SPC16





## Lab Analogs

- Replicates fixture
- Gold analog for NC Connection fixture
- Silver analog for RC Connection fixture



NC

Profile Diameter	Ref.C
Ø3.3	AROLAN

RC

Profile Diameter	Ref.C
Ø4.1	AROLAR

## MEG-PRINTER II

### MEG-PRINTER II SPECIFICATIONS

Printing method	DLP (Digital Light Processing)
Build size	100 x 60 x 70mm
Build thickness	25µm ~ 100µm
Light lamp	LED
Printing materials	Light Curing Resin
Specs	W310 x D210 x H350mm Weight: 10kg



### Pragmatic 3D-printer for clinics

- Simple procedures
- Fast modeling time
- Accurate results
- Cost-effective & user friendly
- Build time (30min)

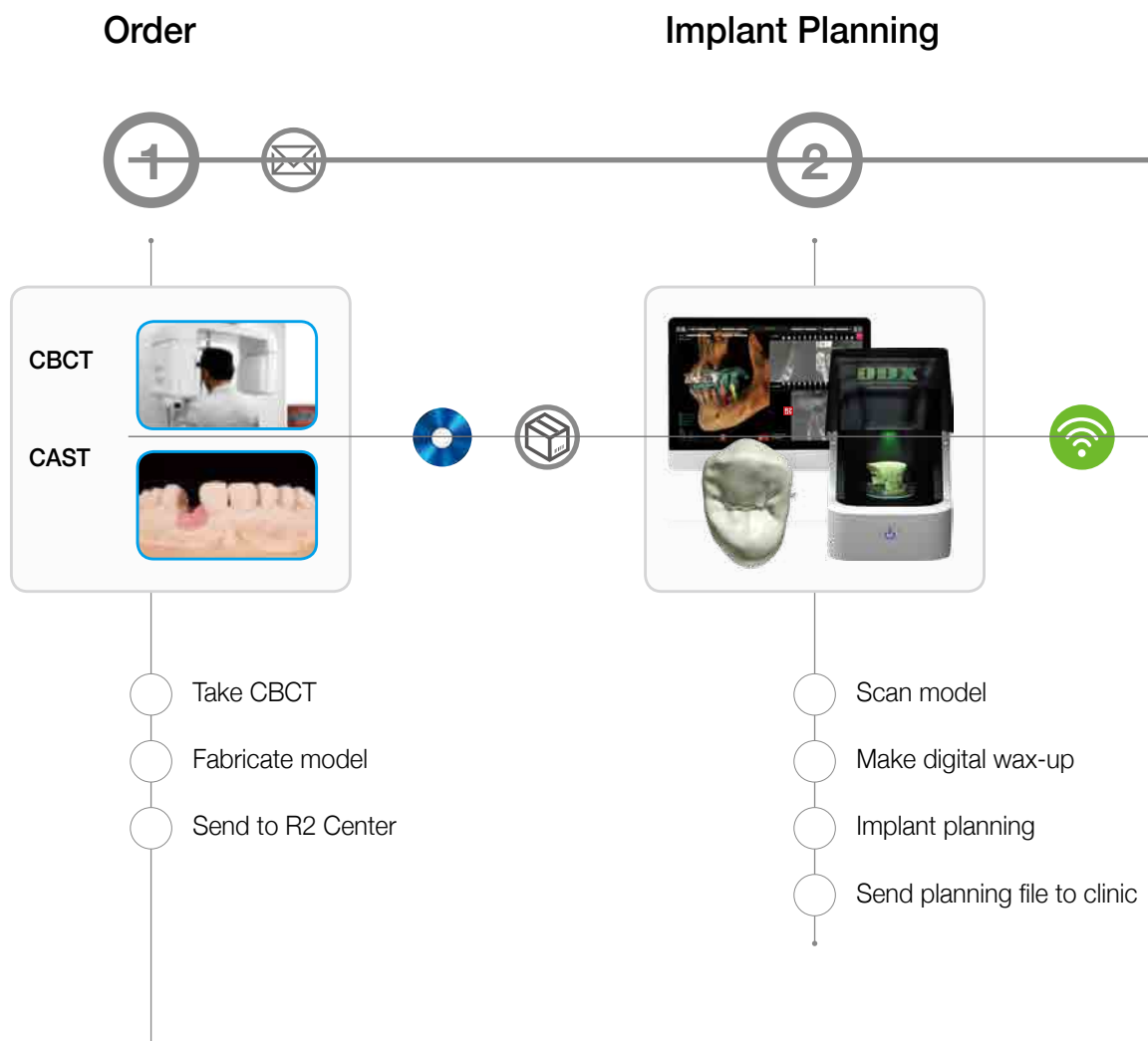


Variety of indications



- Magnetic printing head
- Cartridge change type

# VI. R2GATE™ Order process



**Caution!**  
**R2 Tray, check with local R2 Center before ordering**

R2 Tray is needed if patient is partially edentulous or has multiple teeth with metal fillings or restorations. R2 Tray must be sent to R2 Center along with models and bite registration.

Simple order process: R2GATE™ service is simple, fast & cost effective.

We have a worldwide R2 Digital Centers network, so please contact your nearest Digital Center or MegaGen distributor ([www.r2gate.com](http://www.r2gate.com))

User Confirmation

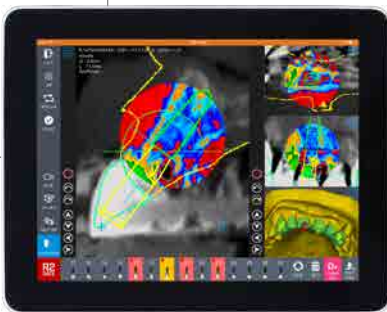
Manufacturing

Delivery

3

4

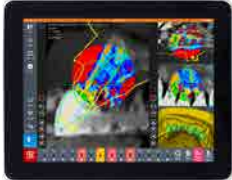
5



- Download project file to R2GATE Lite
- Open project file
- Modify and confirm

- R2GATE Guide™ design
- 3D printing & trimming
- CAD/CAM

- Shipping
- Delivery
- 
- 



**Your confirmation is most important to shorten delivery time**

Diagnostic information is sent to R2GATE lite for confirmation by clinician  
 Corrected & approved data are saved as project files & transferred to R2 Digital Center  
 R2GATE Lite is the essential option for you!

# Clinical Case

## ➔ Clinical Case 1

- Courtesy of Dr. Iulian Filipov

Full mouth rehabilitation with fixed implant-supported prosthesis

### Aim

The aim of this clinical case is to report on rehabilitation of atrophic mandible and maxilla using "all on 4" and "all on 6: concept using Anyridge and AnyRidge Octa1 implant system.

### Patient information

: A 69years old female was referred to our clinic for a total oral rehabilitation from both a functional and aesthetic point of view.

### Treatment in Maxilla

2 AnyRidge Octa 1 at tooth #12, 22 (D. 3.3mm X 11.5mm) and 2 AnyRidge implant at #14, 24 (D. 4.0mm X 11.5mm) with optimal primary stability as follows

Number	ISQ	
	After placement	After 2 Week
#12 (AnyRidge Octa 1)	69	73
#22 (AnyRidge Octa 1)	73	73
#14 (AnyRidge)	75	76
#24 (AnyRidge)	75	72

### Treatment in Mandible

6 AnyRidge implants (D. 3.5mm X L. 13mm) were placed on the mandible within the interformaminal area, with an excellent primary stability between 50Ncm to 60Ncm



Initial

After drilling



Placing AnyRidge Octa 1 implant

AnyRidge #14, #24 AnyRidge Octa 1 #12, #22



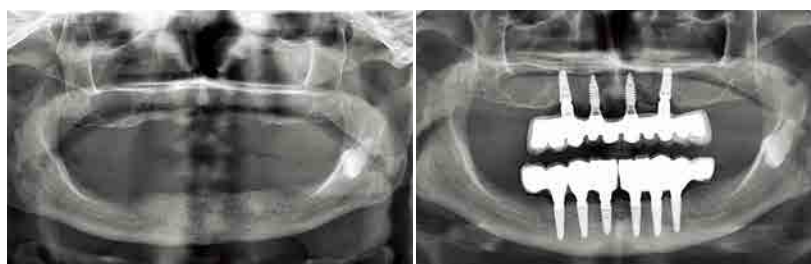
Initial

After Implant placement (AnyRidge)



Placing AnyRidge Octa 1 implant

Placing Healing ABT



Pre Op Panoramic View

After final prosthetic delivery (after 3 month)

## ➔ Clinical Case 2

- Courtesy of Dr. Chang Hoon Han

Guaranteed excellent stability, even with compromised bone density

### Patient information

This patient was a 75-year-old male with experience of bridge surgery and was admitted with discomfort due to periodontal disease and the existing bridge.

### Treatment

A total of 4 AnyRidge Octa 1 implants (D 3.5X11.5mm -2ea, 4.1X10.0mm - 2ea) were placed after extraction of #22, 26, 27, 28 teeth

Number	Insertion Torque (Ncm)	ISQ					
		After OP	After 2W	After 4W	After 6W	After 8W	After 10W
#22	70	68	68	70	71	72	72
#24	70	67	68	70	70	71	72
#25	70	80	80	80	81	80	80
#26	45	80	80	81	81	81	81

Postoperatively, isq values and radiographs showed normal osseointegration and high initial stability, and all prosthetic conditions were good.

Screw loosening and prosthetic complications did not appear



Implant placement



Abutment placement



Temporary prosthesis placement

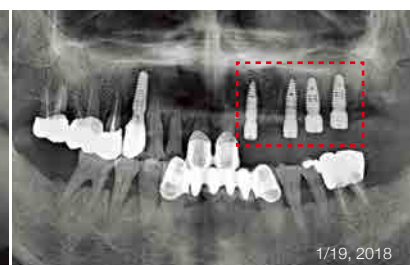


Final prosthetic placement



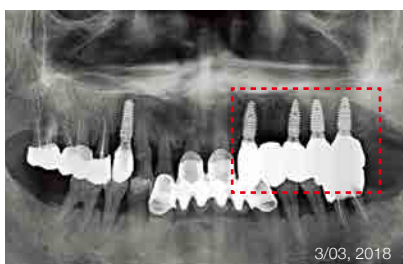
12/26, 2017

Pre-Op



1/19, 2018

Post-Op Panoramic view



3/03, 2018

Final prosthetic placement

# ANYRIDGE<sup>®</sup> OCTA1

by MEGA<sup>1</sup>GEN

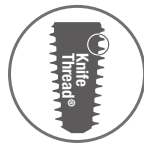


## Feel the X-FIT<sup>™</sup> moment!

More precise positioning & connection



When virtual planning becomes reality



## Designed for less bone stress

Maximum preservation of cortical bone

## KnifeThread<sup>®</sup>

Immediate high & sustained ISQ values for immediate loading



## Biologic S-Line

Beautiful & natural-looking esthetics



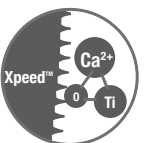
## Super strong

Nothing can beat it!



## Super strong pure titanium body

Nothing can beat it!



Surface treatment

**ANYRIDGE® OCTA1**  
by MEGA'GEN



*Making life simple...*

Have you made the PARADIGM SHIFT yet?  
Do it the AnyRidge Way!

11  
YEARS  
the AnyRidge Way  
IMPLANT PARADIGM SHIFT SINCE 2009



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MegaGen Tower, 607 Seolleung-ro, Gangnam-gu, Seoul, Korea

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**T. +82-1544-2285**  
**T. +82-1566-2338**