ANYRIDGE®

by MEGA'GEN

Once weird...
now the best
on the market!

MEGA'GEN
For Lifetime Smiles

Be confident, you are using a CLEAN IMPLANT!

TRUSTED QUALITY Award 2017-2023
From the CLEAN IMPLANT FOUNDATION

MegaGen's mission is to manufacture the highest quality implants, and this Trusted Quality Award is the confirmation of our commitment. For more information about the Clean Implant Foundation, please visit www.cleanimplant.com

ANYRIDGE®
by MEGA'GEN

Key Advantages

Unique and valuable ISQ pattern; essential for predictable immediate or early loading.

Excellent initial stability even at the compromised bone density

No screw loosening guaranteed!

Product coordinator: Hyun wook An, rnd_dir@imegagen.com

Do it the AnyRidge

AnyRidge goes FAR BEYOND standard

The key benefits of AnyRidge implants immediate loading

The new AnyRidge loading protocol based patients their new smile faster than ever..

Realising the ONE-DAY Implant™

AnyRidge is popular worldwide because it

- excellent stability, even in compromised bone density
- world-first guaranteed sustained implant stability
- similar to natural teeth, long lasting due to better
- cleanest implant surface treatment - safer & faster
- minimal biologic width, NO sinking, NO screw

Way!

expectations for dental implants…

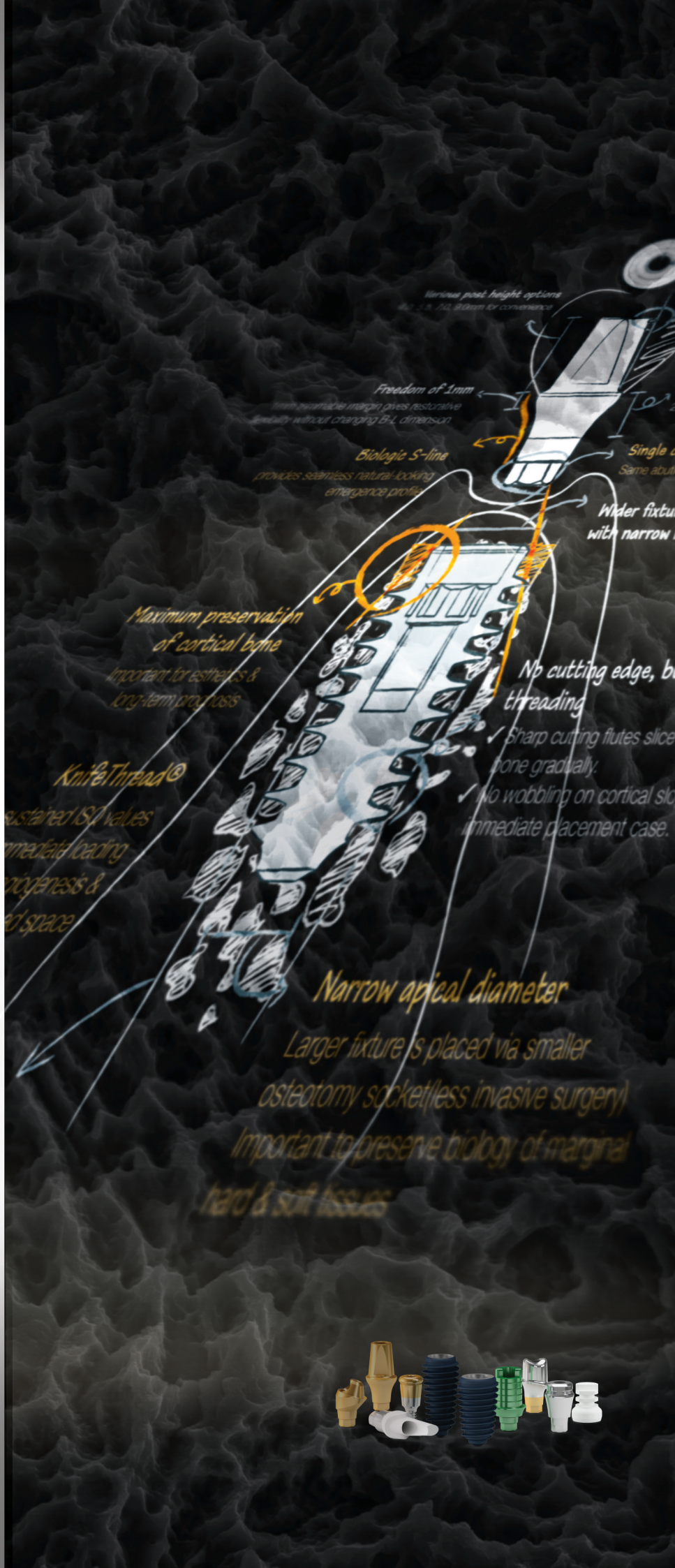
become evident when considering

on clinical results will give your

.

provides:

peri-implant marginal tissues
osseointegration
loosening



World-class Any

World 's first
core & thread technology

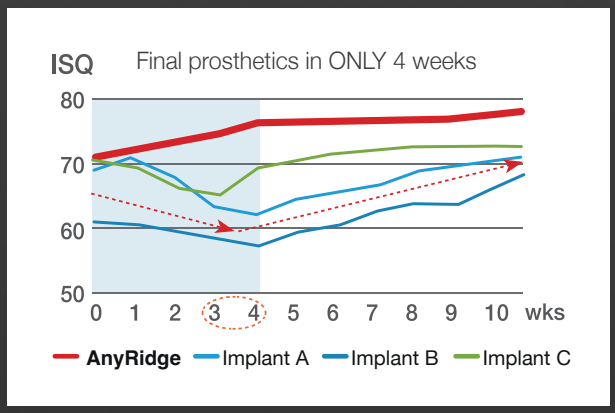
Core : long-term force resistant
Thread : high initial stability

Various core sizes and thread depths ensure both long-term mechanical stability for all teeth and high initial stability even in loose(D4) bone.

World-first
KnifeThread®

Guarantees sustained implant stability

- Stable stress dispersion due to buttress thread shape
- Easier insertion without cutting edge due to thread shape
- Increased surface area due to round-faced design

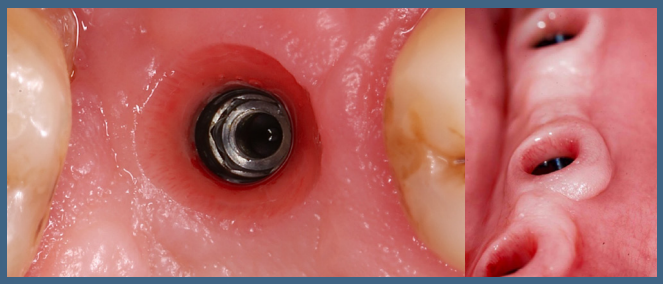


Ridge

premium choice
among clinicians
worldwide

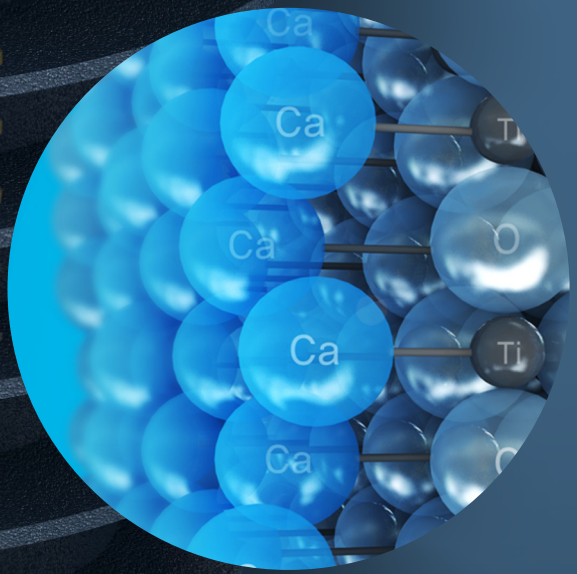
Double offset best for soft tissue

S-line: for better soft tissue thickness
Threadless: for better preservation of cortical bone / wider fixture in narrow crest



Magic 5° for minimal biologic width & NO screw loosening

No screw loosening reported over last 10 years!



XPEED®
S-L-A with nano Ca^{2+} incorporation

Clinically-proven safety
Faster & stronger osseointegration

World-first Core & Thread Technology

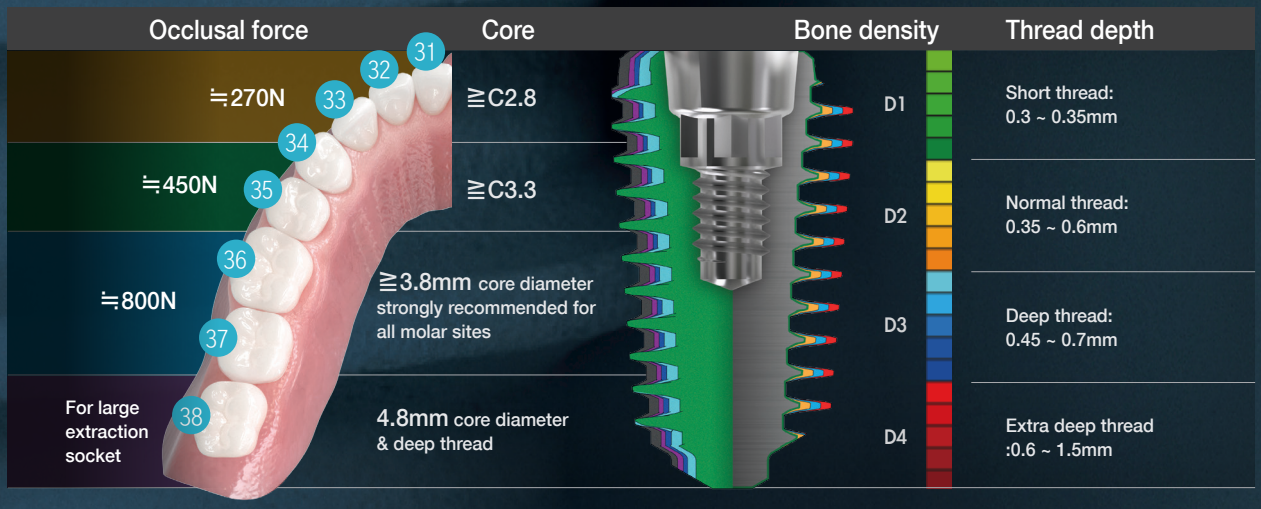
Consistently opening new chapters in implant history, MegaGen is realising the clinical utility of One-Day implants by focusing on the separate functions of the implant core and thread!

- **CORE** provides long-term resistance to external forces, such as occlusal pressure.
- **THREAD** controls & improves initial stability according to bone density.

In the right combination, the core and threads can realise a One-Day implant

· CORE for force resistance

· THREAD for initial stability

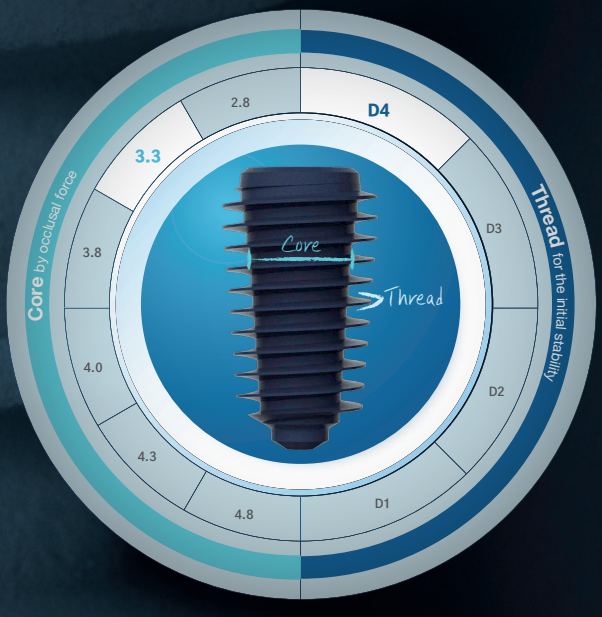


Various core sizes and thread depths ensure both long-term mechanical stability & high initial stability

Various core sizes can meet required stability for incisors to molars with same fixture size

Fixture diameter Ø5.5

Core
33 5511
38 5511
40 5511
43 5511
48 5511



· Tooth position: #35
· Depth: 12mm
· Bone density: D4
· Fixture selection: (Ø3.3)5511

Various thread depths for D1-D4 with same core, regardless of bone quality

→ Same BIC
→ Same high initial stability
= Same start for prosthetics

Core diameter Ø3.3

	Thread depth	Fixture diameter
D1	33	40 11
D2	33	45 11
D3	33	50 11
D4	33	55 11

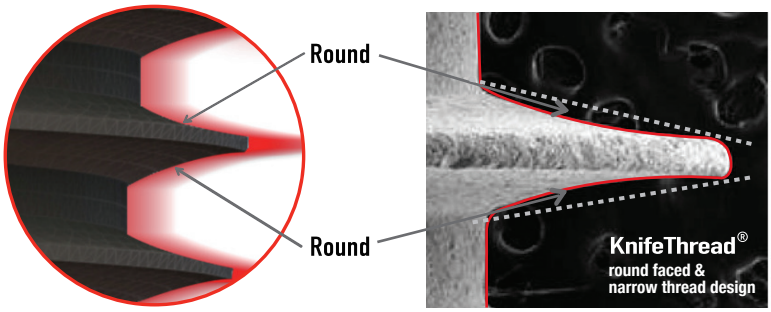
Fixture diameter
(Fix.D-Cor.D)/2
=Thread depth

High initial stability for immediate placement in all bone types

KnifeThread® guarantees sustained implant stability

The unique KnifeThread® and super self-tapping design features provide superior initial stability in any compromised bone situation via bone condensing, gentle ridge expansion, maximized compressive force resistance, and minimized shear force production.

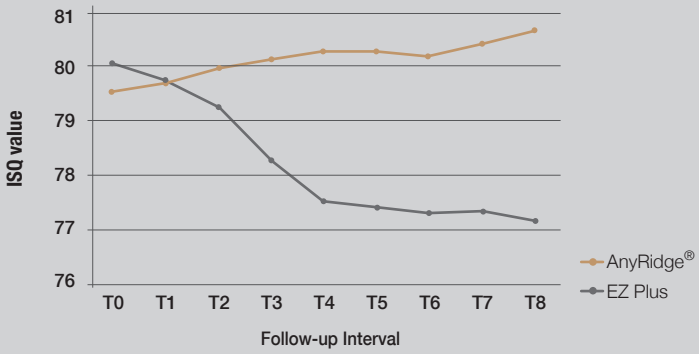
1. Stable dispersion of stress with buttress thread shape
2. Easier insertion with rounded thread shape
3. Round face has larger surface area than straight face
4. **Enough space for angiogenesis & blood supply**



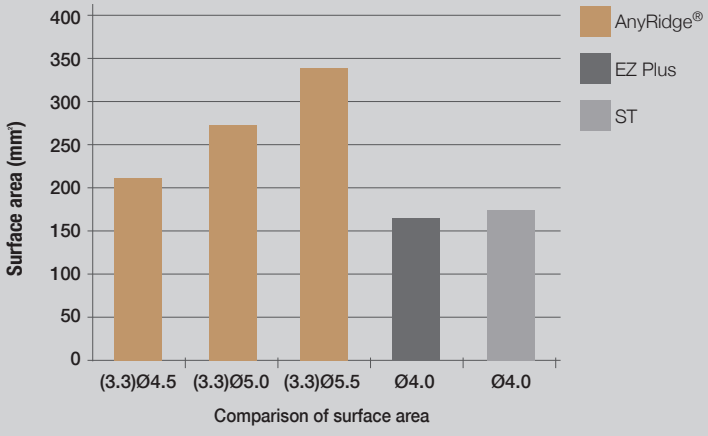
No drop in ISQ value opens NEW ERA for loading

- *Excellent initial stability*
- *Excellent BIC*
- *Special cutting efficiency during implant placement*
- *High resistance to compressive force*
- *Minimized occurrence of shear force*
- *Large surface area for osseointegration*

Thread design dramatically changes
ISQ value pattern!!

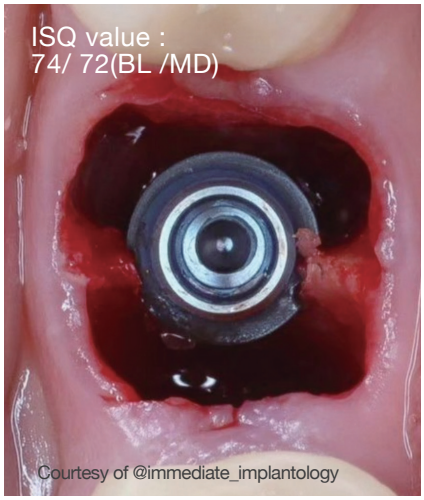


Effect of implant thread design on implant stability in early post-operative period
UCLA School of Dentistry/Jeffrey McCullough DMD, Perry Klokkevold DDS MS



*R&D center in MegaGen Implant Co.,Ltd.(2023)

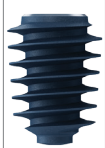
Best solution for molar immediate placement!



Long-term mechanical stability for any tooth!

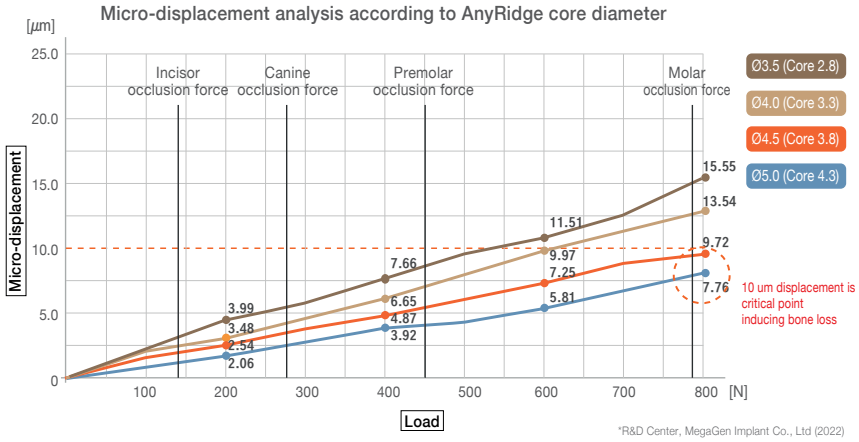
Six different core diameters to enjoy the benefits of AnyRidge anywhere, from incisors to molars...

Various core sizes to meet the strength requirements of each tooth, from incisors to molars

Tooth position	Core diameter	Fixture diameter									
		Ø3.5	Ø4.0	Ø4.5	Ø5.0	Ø5.5	Ø6.0	Ø6.5	Ø7.0	Ø7.5	Ø8.0
Narrow teeth	Ø2.8										
	Thread depth	0.3									
Canine / Pre-molar	Ø3.3										
	Thread depth		0.35	0.6	0.85	1.1				AnyRidge implants for molar sites	
Molar	Ø3.8										
	Thread depth			0.35	0.6	0.85					
	Ø4.0										
	Thread depth				0.45	0.7	0.95				
	Ø4.3										
	Thread depth				0.35	0.6	0.85				
Molar (immediate extraction options)	Ø4.8										
	Thread depth					0.35	0.6	0.85	1.1	1.35	1.6
Available lengths (mm)		7.0, 8.5, 10, 11.5, 13, 15							7.0, 8.5, 10, 11.5, 13		

▸▸ 10 seconds to double AnyRidge enjoyment at all molar sites

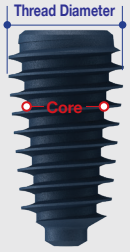
10um displacement is critical point inducing bone loss



*R&D Center, MegaGen Implant Co., Ltd (2022)

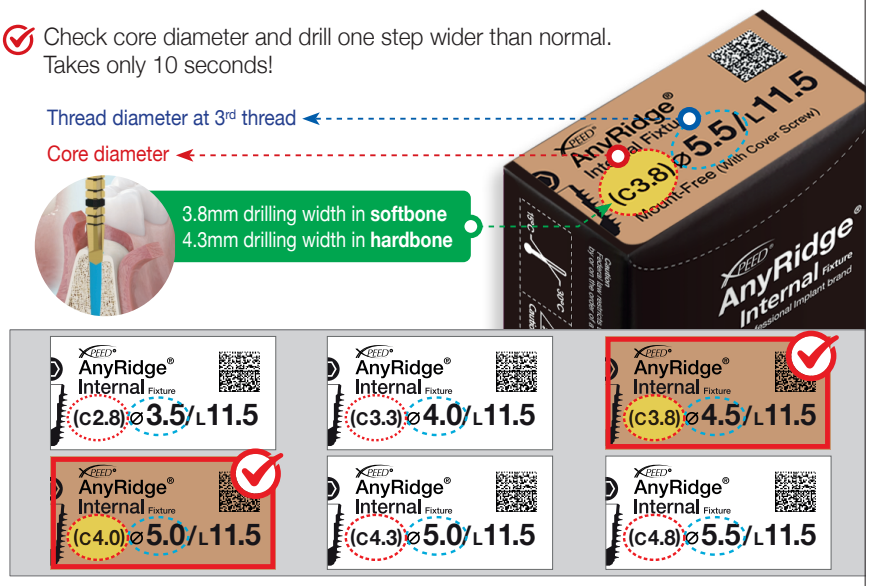
Point #1

≧3.8mm core diameter strongly recommended for all **molar** sites



※ Core diameter provides strength
※ Thread diameter provides initial stability

Check core diameter and drill one step wider than normal.
Takes only 10 seconds!



Point #2

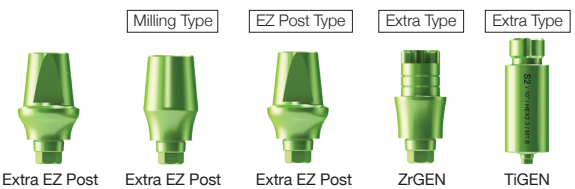
As too much torque can cause fatigue, **≦50Ncm** is strongly recommended

Overtorquing can cause irreversible damage to connection &/or linear cracking of fixture wall.

For smaller diameter AnyRidge [≦3.5mm (2.8mm core)], recommended insertion torque is ≦50Ncm to avoid any structural damage to fixture.

Point #3

S2 option facilitates **'stronger'** prosthetics
Use **Extra EZ Post** for **molar** sites *(Refer to the next page)*



Higher implant survival rate for 2nd molars!

S2 Option is solution for lower 2nd molar implant success rate...

While the reported 10-year success rate for regular implants is 99.7%, 2nd molar implants have a lower 6-year success rate of about 89.0%. However, the AnyRidge S2 Option provides a clear solution to the identified causes of this lower success rate.

Problem

1. Lower quality & quantity of alveolar bone

- Maxilla 2nd molar sites usually show lower quality (Type IV or worse) and/or limited bone height due to sinus pneumatization.
- Mandible 2nd molar sites usually show less blood supply, which is important for adequate alveolar bone metabolism, and limited bone height due to inferior mandibular nerve.

2. Strong occlusal force

Due to special TMF joint system, 2nd molars usually endure strong occlusal force during mastication.

3. Hygiene problem

Due to their remote position, maintaining hygiene at 2nd molars is difficult, especially in distal area, making them more vulnerable to peri-implantitis.

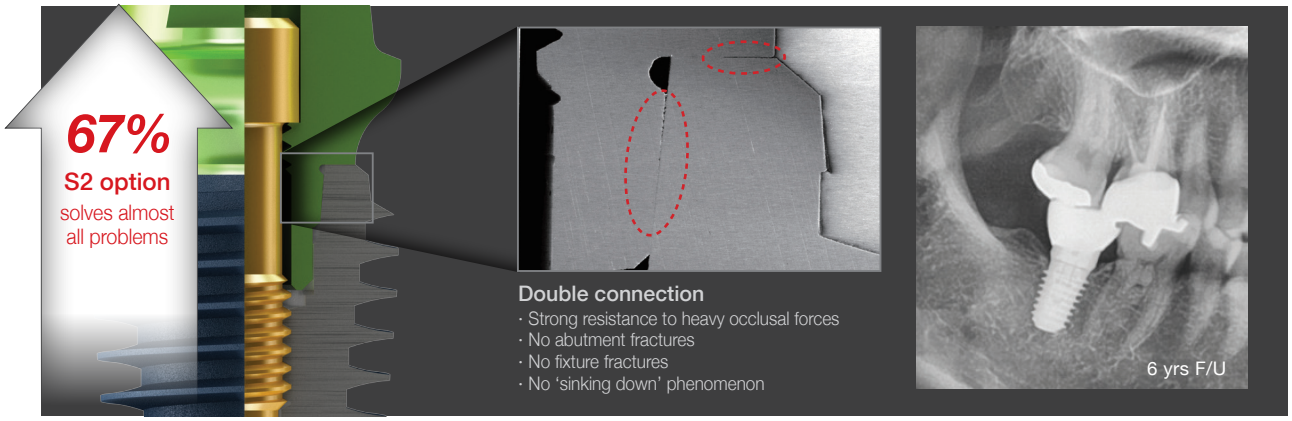
Solution

Well-known advantages of AnyRidge Implant System

- **excellent initial stability** even with loose bone and limited bone height
- **sufficient surface area** for osseointegration, even with limited bone height
- adequate **space for angiogenesis and blood supply** for more active bone remodeling
- **stronger implant fixture/abutment connection** to withstand occlusal forces & lateral movement
- **effective materials** for abutment & crown that are plaque-resistant and hygienic, even in less accessible locations

Stronger fixture/abutment connection

Use Extra EZ Post for molar sites

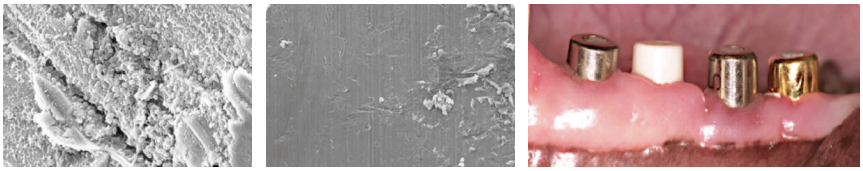


Effective materials for hygiene

AnyRidge recommends zirconia customized abutments and/or zirconia monolithic crowns for 2nd molar implants

ZrGEN Abutment [Extra Type]

Zirconia Crown



Homogeneous layer of cocci or filamentous bacteria on titanium surface and small number of bacteria on zirconium oxide surface (from left: Ti, ZrO2, Ti, Au/Pt-alloy) 1 month after implant placement

Bacterial Adhesion on Commercially Pure Titanium and Zirconium Oxide Disks: An In Vivo Human Study
Antonio Scarano, Maurizio Piattelli, Sergio Caputi, Gian Antonio Favero, and Adriano Piattelli JP 2004
The mucosal barrier at implant abutments of different materials
Maria Welander, Ingemar Abrahamsson, Tord Berglundh COIR19, 2008; 635–641

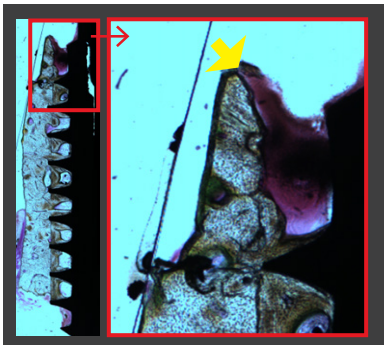
Biologically-inspired design for minimal invasiveness

Maintains more existing bone for better long-term prognosis

Threadless section for maximum preservation of cortical bone

* More cortical bone
= more soft tissue
= beautiful gingival line

- *Human biopsy 2.5 yrs after placement*
- *Yellow arrow shows preserved pointed alveolar crest after implant placement*
- *Even with narrow ridge, there is no peri-implant marginal gingival recession at 2.5 yrs after implant placement*

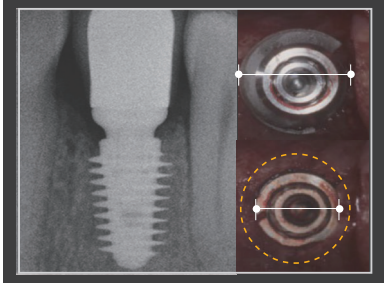


AnyRidge does not depend on the cortical bone for its initial stability; this decreased stress on the cortical bone helps to prevent bone resorption after implantation.

The advanced coronal design facilitates maximum cortical bone preservation around implants. Beyond osseointegration, AnyRidge assures a beautiful gingival line by preserving and maintaining more cortical bone.

Smaller platform & narrow apical diameter

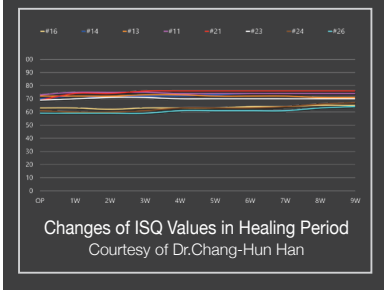
* Wider fixture possible with narrow ridge



Opening for Ø8.0 fixture is only 4.8mm

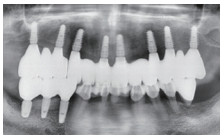
A larger fixture is placed via a smaller osteotomy socket(less invasive surgery), which is important to preserve the biology of the marginal hard & soft tissues

Deep KnifeThreads without cutting edges + tapered design

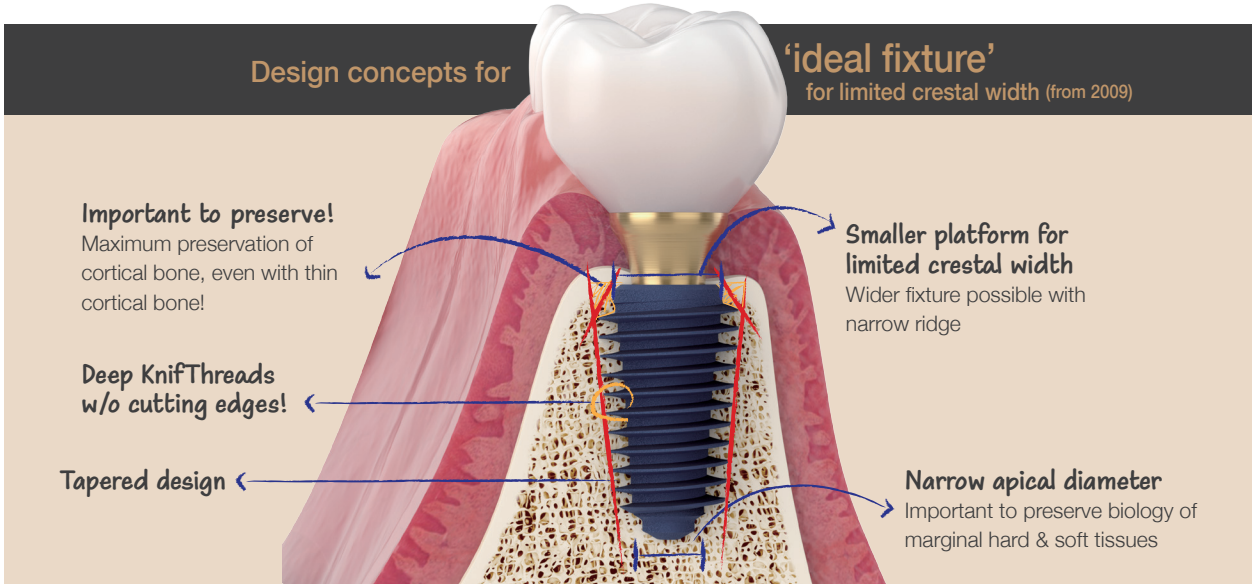


Changes of ISQ Values in Healing Period
Courtesy of Dr.Chang-Hun Han

Easy to place & guaranteed excellent initial stability
Strong self-threading/sharp-cutting flutes slice & widen bone gradually

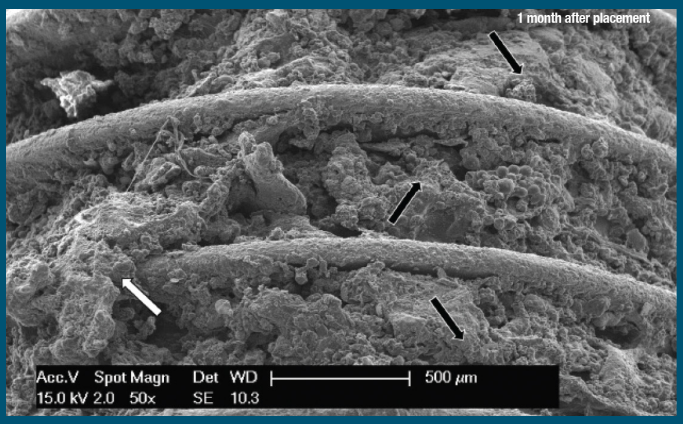


ISQ values were stable for all implants. Final prosthesis was loaded after 9 weeks when implant ISQ values in grafted area were close to 70.

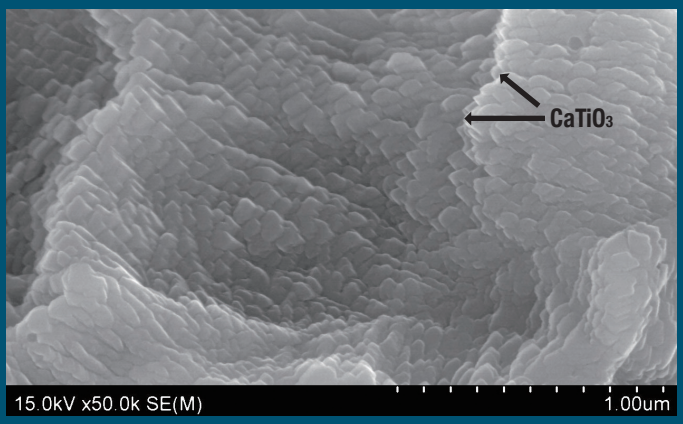


XPEED® is MegaGen's unique surface treatment Pure grade 4 titanium implants are treated with S-L-A, followed by a special process that incorporates calcium ions to create $CaTiO_3$ nanostructures that activate osteoblasts.

Over 13 years of clinical evidence continue to prove excellent, rapid, & long-lasting osseointegration.

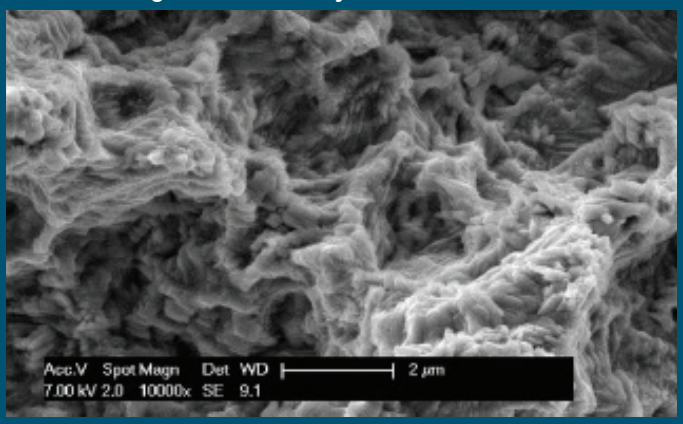


Histological studies in animals & humans consistently show rapid bone cell proliferation & long-term stability thanks to XPEED®'s unique properties.



$CaTiO_3$ nanostructures that activate osteoblasts are incorporated across all fixture surfaces.

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 ~ 2.5 μm over whole fixture guarantees more uniform bone growth.

XPEED®

S-L-A with nano Ca^{2+} incorporation

TRUSTED QUALITY 2017-2023 CLEAN IMPLANT MegaGen - AnyRidge

Be confident, you are using a CLEAN IMPLANT!

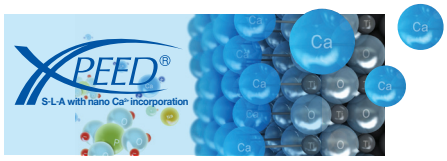
TRUSTED QUALITY Award 2017-2023
From the CLEAN IMPLANT FOUNDATION

Superior surface technology – XPEED® & XPEEDActive

Another unique technology from MegaGen, XPEED® has opened a new era for implant surface treatment

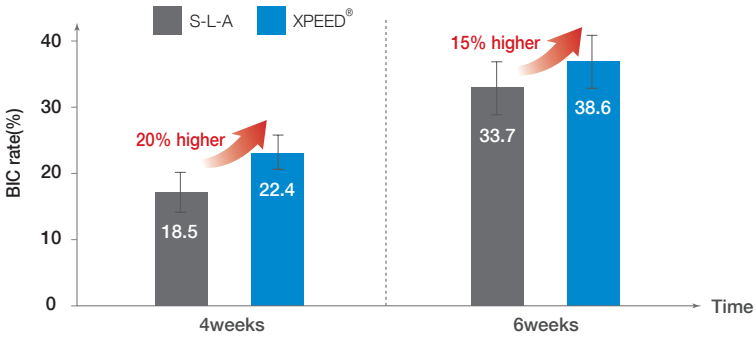
World-first Ca^{2+} incorporation technology

- *In vivo*, many cations are formed on the implant surface due to calcium
- More PO_4^{3-} ions are then adsorbed & Ca^{2+} ions are re-adsorbed to adsorbed PO_4^{3-} ions
- Apatite layer similar to bone mineral is promoted & mineralized into hydroxyapatite



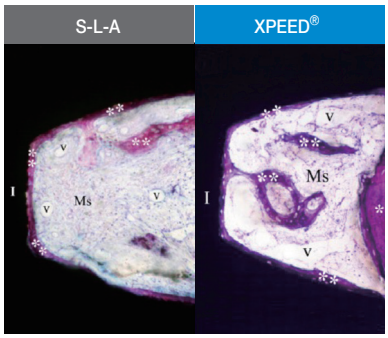
Higher bone formation rate than S-L-A, proven by human clinical study

- XPEED® shows higher BIC values at both after 4 and 6 weeks (compared to S-L-A)
- XPEED® shows earlier bone formation after implantation, even in soft cancellous bone of posterior maxilla (compared to S-L-A)



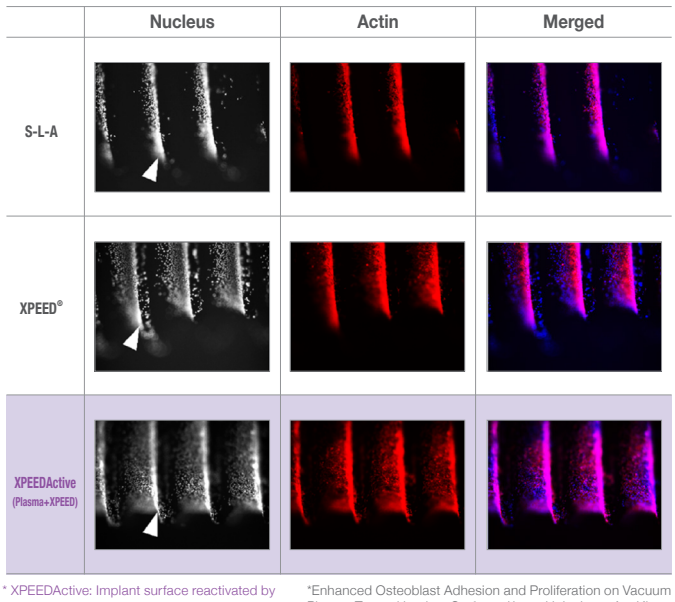
Nanostructured Calcium-Incorporated Surface Compared to Machined and SLA Dental Implants
-A Split-Mouth Randomized Case/Double-Control Histological Human Study./Christian Makary 1,, Abdallah Menhall 1 , Pierre Lahoud 1 , Hyun-Wook An 2 , Kwang-Bum Park 3 and Tonino Traini 4,5,**

Reference: Double-control histological human study



*Ms(Marrow spaces), * (native bone), ** (newly formed bone)*

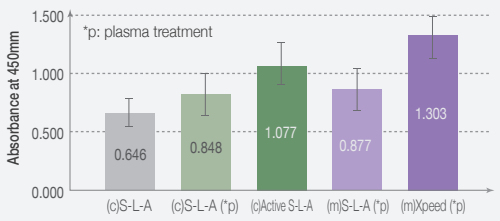
No explanation needed... addition to XPEED®... XPEEDActive (Plasma+XPEED®)



* XPEEDActive: Implant surface reactivated by plasma treatment on XPEED surface

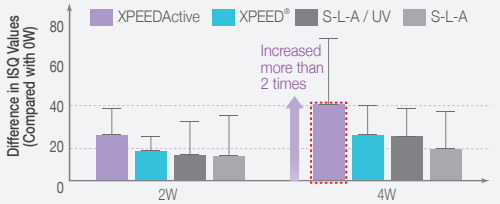
*Enhanced Osteoblast Adhesion and Proliferation on Vacuum Plasma-Treated Implant Surface. /Jeon, H.J.; Jung, A.; Kim, H.J.; Seo, J.S.; Kim/Appl. Sci. 2022, 12, 9884.

Quantitative evaluation of cell adhesion after plasma treatment of implants with various surface properties



*Effect of Surface Properties on CellAdhesion following Vacuum Plasma Treatment/ Author YJ Chae, SM Lee, SJ Park, HW An J Future dentistry, 2022:Vol. 2:No. 4:18-22

After 4 weeks, the largest increase in ISQ value was observed in the XPEEDActive group



*Evaluating the effectiveness of plasma-treated implants using a rabbit model/ Daegu-Gyeongbuk Medical Innovation Foundation (2022)

Strong prosthetic connection - Magic 5°

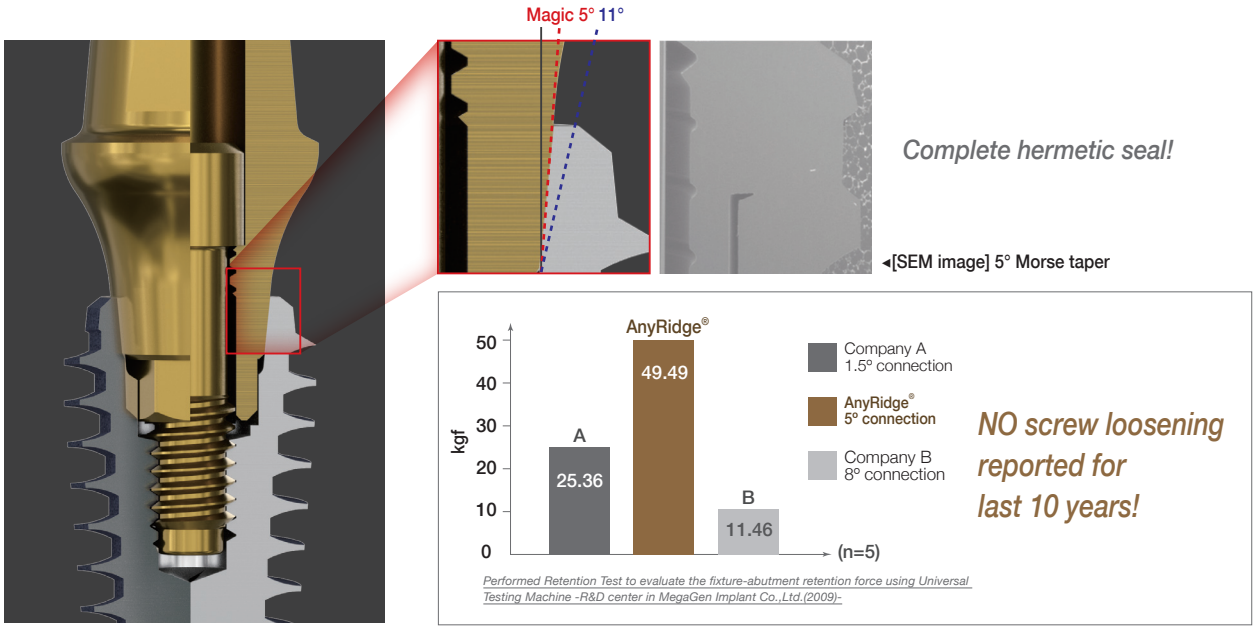
Guarantees minimal biologic width & NO screw loosening

The 'connection' is important for the biologic width and prosthetic stability. Most internal connection systems experience sinking due to occlusal force, which then causes screw loosening. However, AnyRidge guarantees NO screw loosening due to its revolutionary strong 5° Morse taper & internal hex.

NO screw loosening, minimal biologic width!

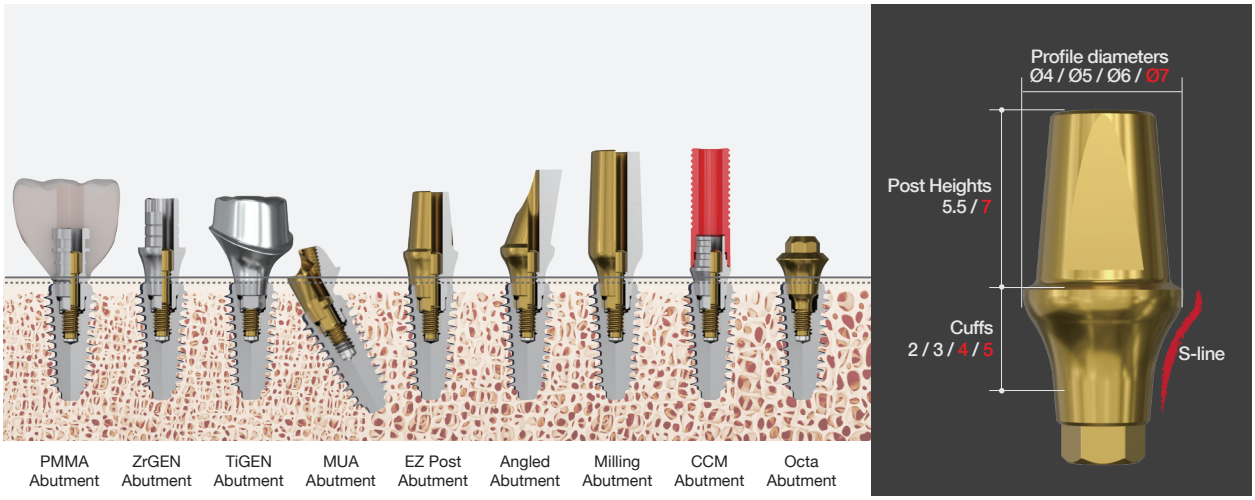
Magic Five (5° internal connection)

No more screw loosening with AnyRidge's unique connection (5° Morse taper), which gives a perfect hermetic sealing. The biologic width is also minimized as there is no micro gap, plus the crestal bone health is well maintained.



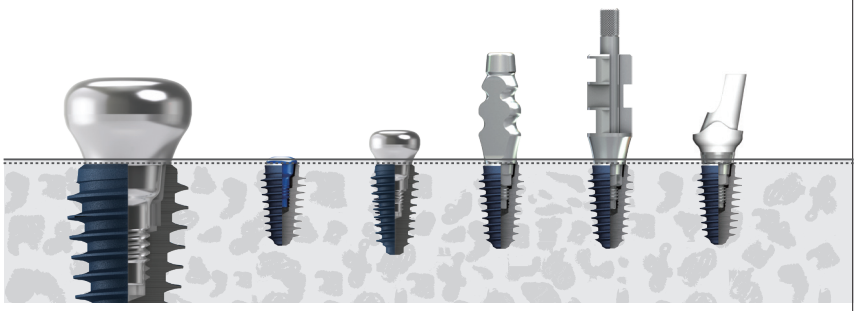
All indications, various abutment options

The prosthetic line-up includes a variety of sizes to satisfy all clinical needs, including covering overdentures, all on 4(6), digital, as well as general prosthetics.



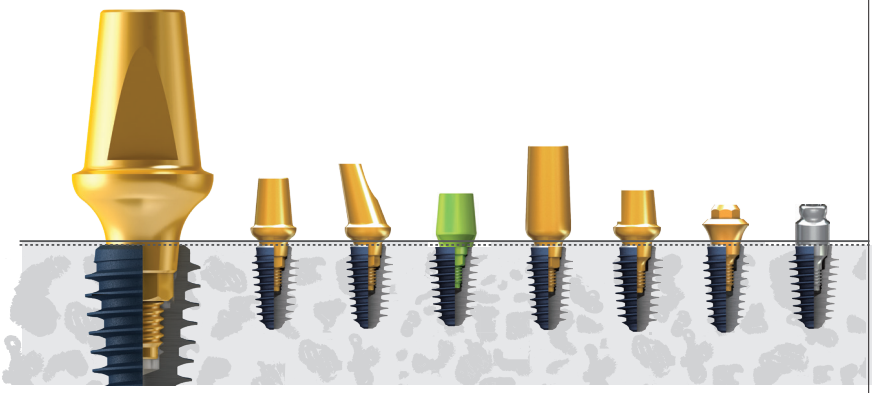
▸▸ Two different fixture/component connections

1. All transitional & temporary components have bottom 'ledges'



- All cover screws, healing abutments, impression copings (transfer & pick-up types), temporary cylinders have bottom ledges to prevent cold welding with the fixture.
- Hand drivers(1.2 Hex) or impression drivers can be used to screw these components in and out.

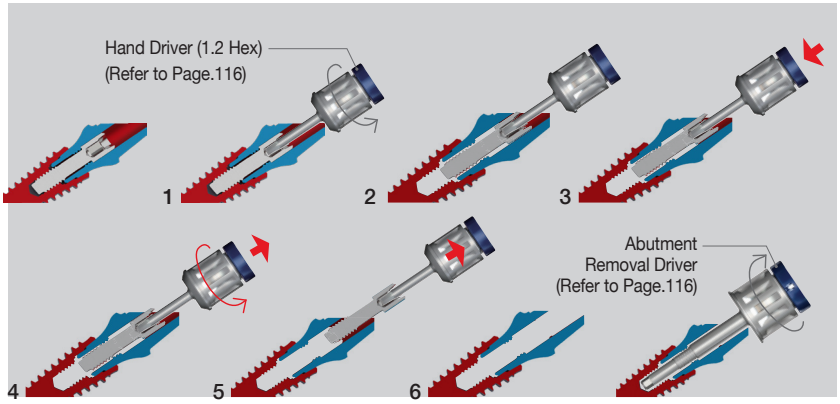
2. All permanent abutments make strong connections with fixtures, even with finger force!



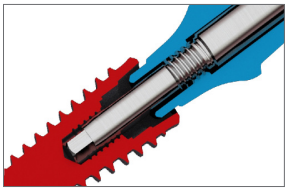
- 25~35Ncm is recommended to connect a permanent abutment into a fixture.
- Perfect cold welding means a permanent abutment cannot be removed with finger force, even after complete removal of the abutment screw. A permanent abutment can only be removed using an Abutment Removal Driver.

Removal of permanent abutment from fixture..

The extremely strong connection force means NO screw loosening. Use the special 'Abutment Removal Driver' to remove a permanent abutment from a fixture.



1. Use the Hand Driver(1.2 Hex) to unscrew the abutment screw.
2. Continue to turn counter-clockwisely until you feel a click of disengagement.
3. Push down on the Hand Driver once again to catch and fix the abutment screw.
4. Lift the Hand Driver gently and continue to turn counter-clockwisely until the abutment screw engages with the inner screw of the abutment.
5. Remove the abutment screw completely from the abutment.
6. Insert the 'Abutment Removal Driver' and continue to turn clockwise until the abutment is released from fixture. You may feel some resistance when turning the Abutment Removal Driver, but don't worry, some exertion is needed to disconnect the abutment from the fixture.

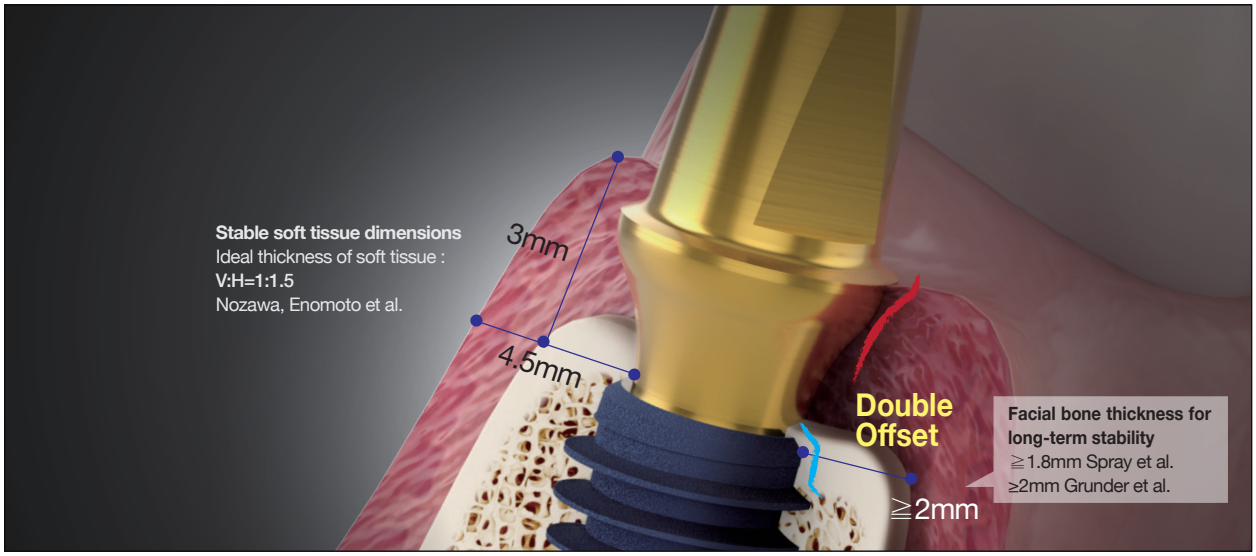


‘Double Offset’ design for better esthetic results

Creates better peri-implant biotype & provides emergence profile for more esthetic & functional prosthetic results

Double Offset :

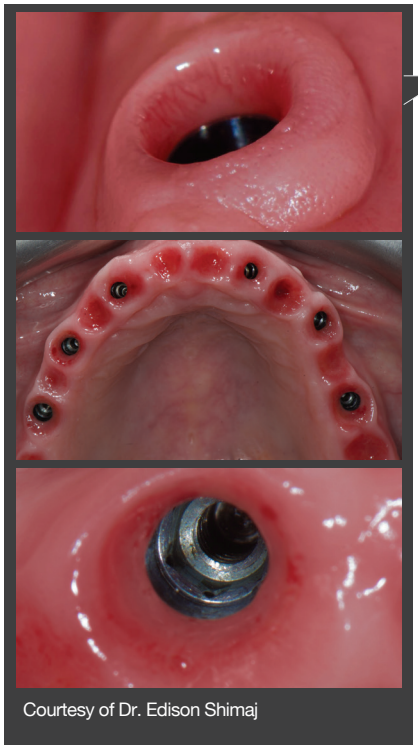
Upper threadless section of fixture + structure of biologic S-line cuff design of abutment



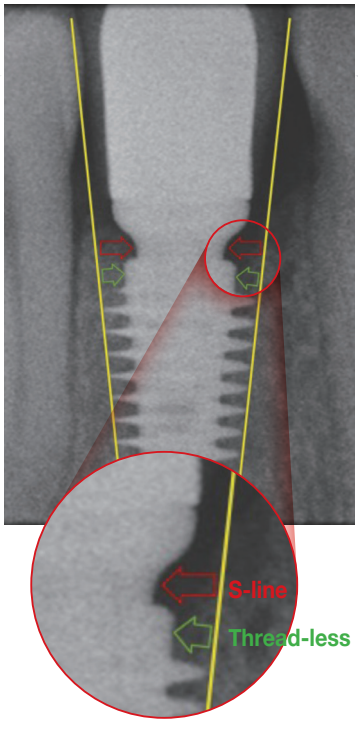
Nozawa, T.; Enomoto, H.; Tsurumaki, S.; Ito, K. Biologic height-width ratio of the buccal supra-implant mucosa Eur. J. Esthet. Dent. 2006, 1, 208–214.
J R Spray , C G Black, H F Morris, S Ochi. The influence of bone thickness on facial marginal bone response: stage 1 placement through stage 2 uncovering. Ann Periodontol. 2000 Dec;5(1):119-28.
Grunder U, Gracis S, Capelli M. Influence of the 3-D bone-to-implant relationship on esthetics. Int J Periodontics Restorative Dent. 2005; 25:113–119

S-line cuff design:

better soft tissue thickness

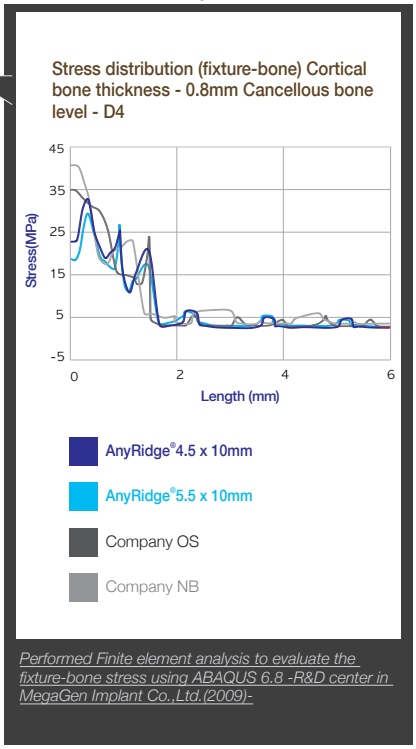


Courtesy of Dr. Edison Shimaj



Threadless cuff design:

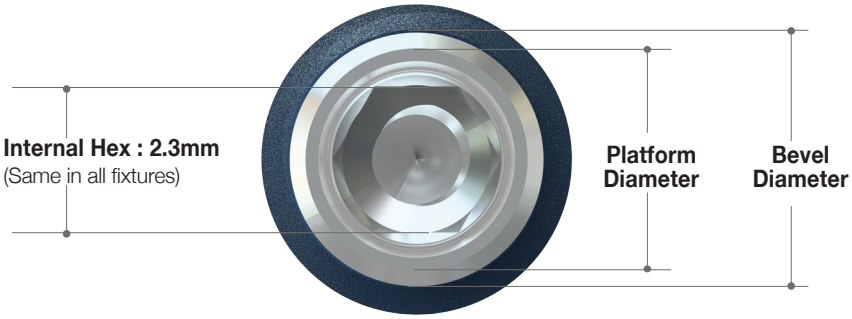
better hard tissue preservation



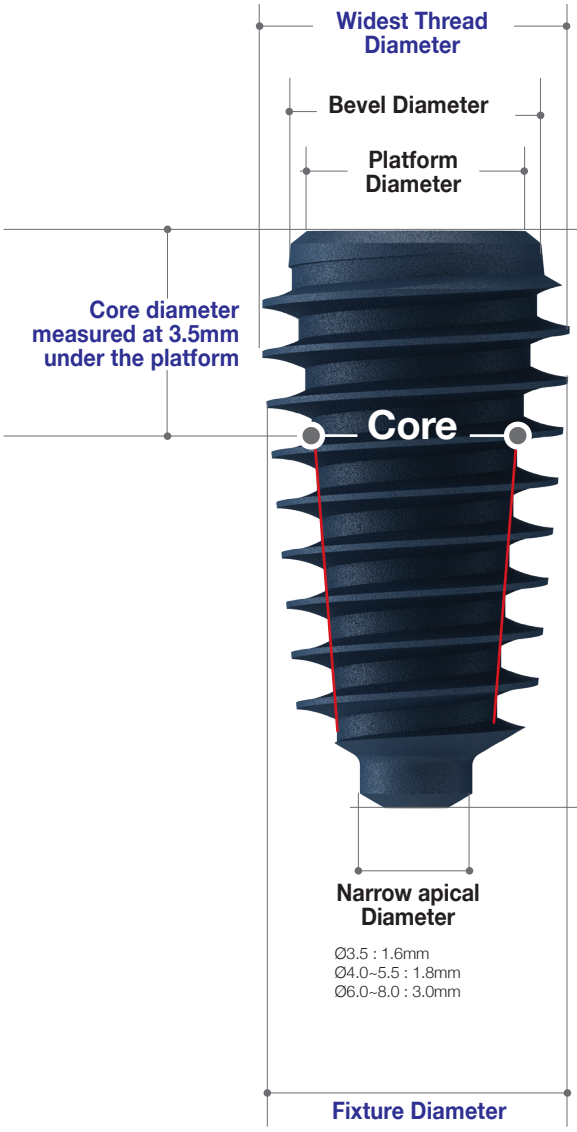
Performed Finite element analysis to evaluate the fixture-bone stress using ABAQUS 6.8 -R&D center in MegaGen Implant Co.,Ltd.(2009)-

Fixture Product & Packaging

I. Fixture Dimension



Core (mm)	Platform (mm)	Bevel (mm)
Ø2.8	3.5	3.8
Ø3.3	3.5	4.0
Ø3.8	4.0	4.5
Ø4.0	4.25	4.75
Ø4.3	4.5	5.0
Ø4.8	5.0	5.5



Widest thread diameter is
0.5mm wider than fixture size at 3.5mm
0.4mm wider than fixture size at 4.0~8.0mm

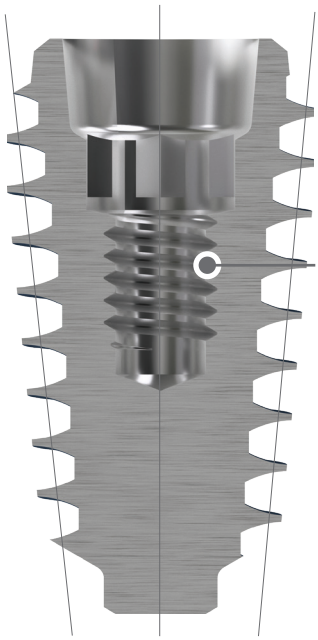
*For example
Ø3.5 = Fixture diameter + 0.5mm
Ø4.0~Ø8.0 = Fixture diameter + 0.4mm

Length

*Actual length of fixture
Core Ø3.3~4.3 fixture : 0.8mm shorter than the written length
Core Ø4.8 fixture : 0.6mm shorter than the written length

Important concept!

It has been proven that 0.5~1.0mm subcrestal placement shows better crestal bone response.
With AnyRigde system, a fixture goes down to the ideal position without further drilling avoiding damage to important anatomic structures.



Female screw
1.8mm diameter X
0.35mm pitch

[SEM image]

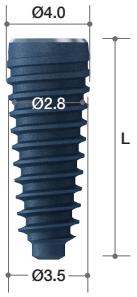
II. Fixture Size

Small Ø3.5

- Cover Screw included.

- Availability of 7mm product is subject to local approval.

Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø3.5	Ø2.8	7	FANIHX3507C
		8.5	FANIHX3508C
		10	FANIHX3510C
		11.5	FANIHX3511C
		13	FANIHX3513C
		15	FANIHX3515C



Regular Ø4.0

- Cover Screw included.

- Availability of 7mm product is subject to local approval.

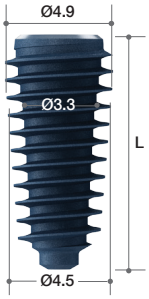
Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø4.0	Ø3.3	7	FANIHX4007C
		8.5	FANIHX4008C
		10	FANIHX4010C
		11.5	FANIHX4011C
		13	FANIHX4013C
		15	FANIHX4015C

Regular Ø4.5

- Cover Screw included.

- Availability of 7mm product is subject to local approval.

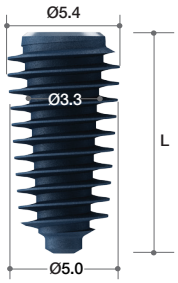
Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø4.5	Ø3.3	7	FANIHX4507C
		8.5	FANIHX4508C
		10	FANIHX4510C
		11.5	FANIHX4511C
		13	FANIHX4513C
		15	FANIHX4515C
	Ø3.8	7	AR384507C
		8.5	AR384508C
		10	AR384510C
		11.5	AR384511C
		13	AR384513C
		15	AR384515C



Fixture Size (Continued)

Wide Ø5.0

- Cover Screw included.



Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø5.0	Ø3.3	7	FANIHX5007C
		8.5	FANIHX5008C
		10	FANIHX5010C
		11.5	FANIHX5011C
		13	FANIHX5013C
		15	FANIHX5015C
	Ø3.8	7	AR385007C
		8.5	AR385008C
		10	AR385010C
		11.5	AR385011C
		13	AR385013C
		15	AR385015C

Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø5.0	Ø4.0	7	FANIHX5007SC
		8.5	FANIHX5008SC
		10	FANIHX5010SC
		11.5	FANIHX5011SC
		13	FANIHX5013SC
		15	FANIHX5015SC
	Ø4.3	7	AR435007C
		8.5	AR435008C
		10	AR435010C
		11.5	AR435011C
		13	AR435013C
		15	AR435015C

Wide Ø5.5

- Cover Screw included.

Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø5.5	Ø3.3	7	FANIHX5507C
		8.5	FANIHX5508C
		10	FANIHX5510C
		11.5	FANIHX5511C
		13	FANIHX5513C
		15	FANIHX5515C
	Ø3.8	7	AR385507C
		8.5	AR385508C
		10	AR385510C
		11.5	AR385511C
		13	AR385513C
		15	AR385515C
	Ø4.0	7	FANIHX5507SC
		8.5	FANIHX5508SC
		10	FANIHX5510SC
		11.5	FANIHX5511SC
		13	FANIHX5513SC
		15	FANIHX5515SC

Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø5.5	Ø4.3	7	AR435507C
		8.5	AR435508C
		10	AR435510C
		11.5	AR435511C
		13	AR435513C
		15	AR435515C
	Ø4.8	7	AR485507C
		8.5	AR485508C
		10	AR485510C
		11.5	AR485511C
		13	AR485513C
		15	AR485515C

➲ Fixture Size

Super Wide Ø6.0

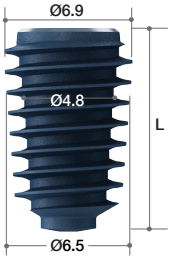
- Cover Screw included.

Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø6.0	Ø4.0	7	AR406007C
		8.5	AR406008C
		10	AR406010C
		11.5	AR406011C
		13	AR406013C
	Ø4.3	7	AR436007C
		8.5	AR436008C
		10	AR436010C
		11.5	AR436011C
		13	AR436013C
	Ø4.8	7	FALIHX6007C
		8.5	FALIHX6008C
		10	FALIHX6010C
		11.5	FALIHX6011C
		13	FALIHX6013C

Super Wide Ø6.5

- Cover Screw included.

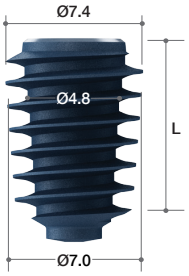
Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø6.5	Ø4.8	7	FALIHX6507C
		8.5	FALIHX6508C
		10	FALIHX6510C
		11.5	FALIHX6511C
		13	FALIHX6513C



Super Wide Ø7.0

- Cover Screw included.

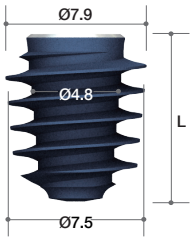
Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø7.0	Ø4.8	7	FALIHX7007C
		8.5	FALIHX7008C
		10	FALIHX7010C
		11.5	FALIHX7011C
		13	FALIHX7013C



Super Wide Ø7.5

- Cover Screw included.

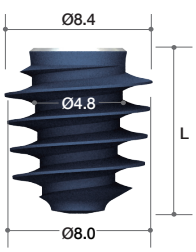
Fixture Diameter	Core Diameter	Length (mm)	Ref.C
7.5	4.8	7	FALIHX7507C
		8.5	FALIHX7508C
		10	FALIHX7510C
		11.5	FALIHX7511C
		13	FALIHX7513C



Super Wide Ø8.0

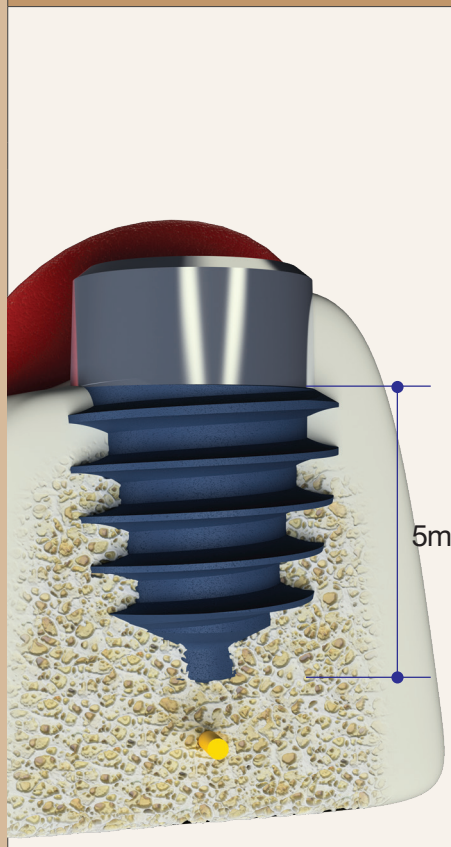
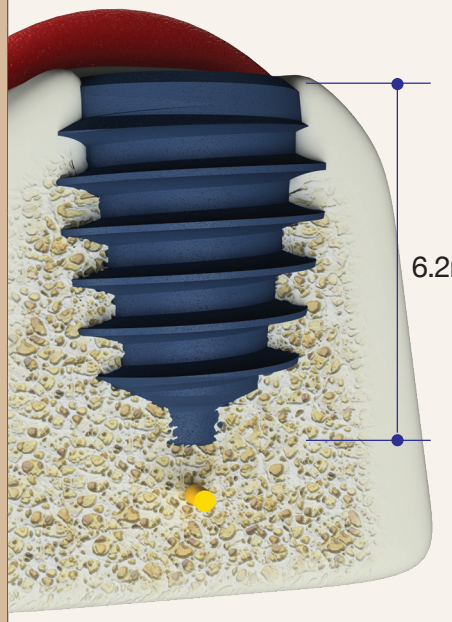
- Cover Screw included.

Fixture Diameter	Core (mm)	Length (mm)	Ref.C
Ø8.0	Ø4.8	7	FALIHX8007C
		8.5	FALIHX8008C
		10	FALIHX8010C
		11.5	FALIHX8011C
		13	FALIHX8013C



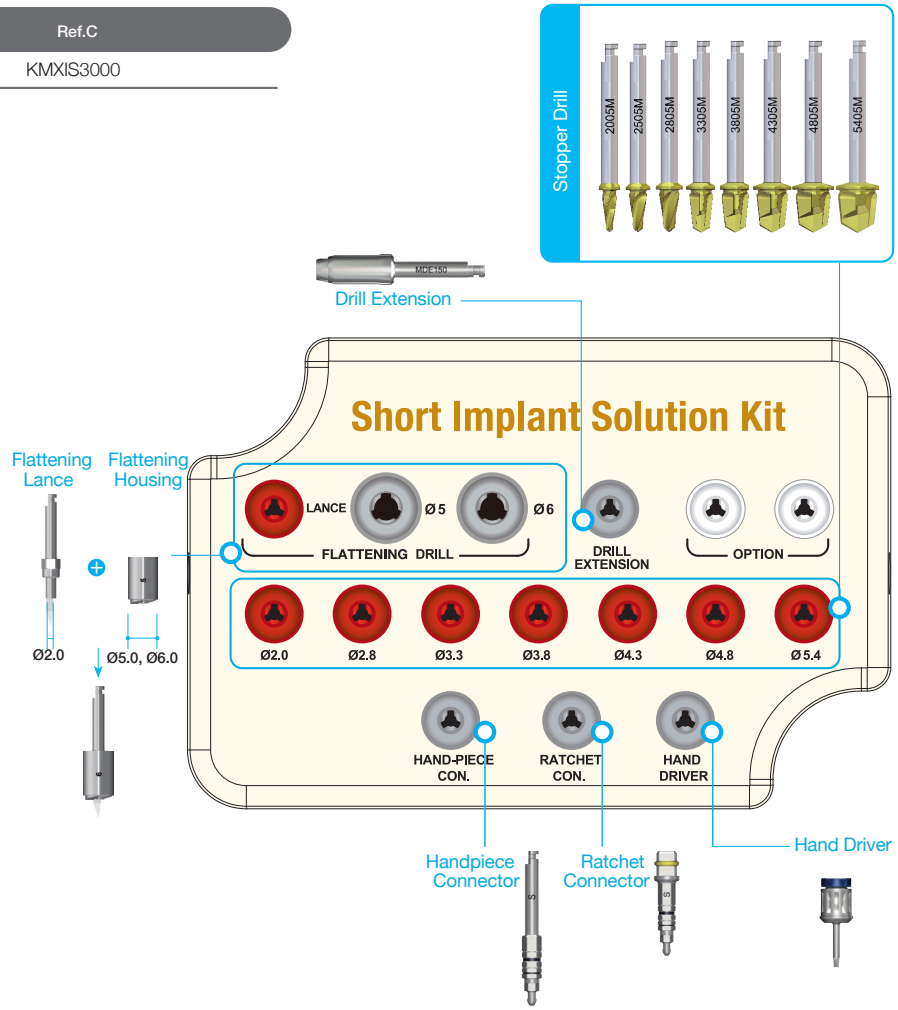
Short Implant Solution

For special use in case of limited vertical dimension (minimum bone depth: 5 / 6mm)

Length	System	Fixture Diameter				
		∅3.5	∅4.0	∅4.5	∅5.0	∅5.5
	AnyRidge					
		Core 3.3				
		Core 3.8				
		Core 4.3				
		Core 4.8				
	AnyOne					
		Core 3.5				
		Core 4.0				
	AnyRidge					
		Core 3.3				
		Core 3.8				
		Core 4.0				
		Core 4.3				
		Core 4.8				

Surgical Kit for Short Implant Solution

Ref.C
KMXIS3000



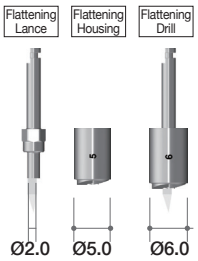
Important!

Flattening Drill

- Flattens irregular bone for accurate stopper drilling
- Designed to engage with flattening lance & housing. 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 guides drilling position of fixture

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

(*) Separate sales item

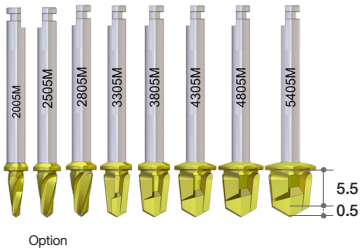


Stopper Drill

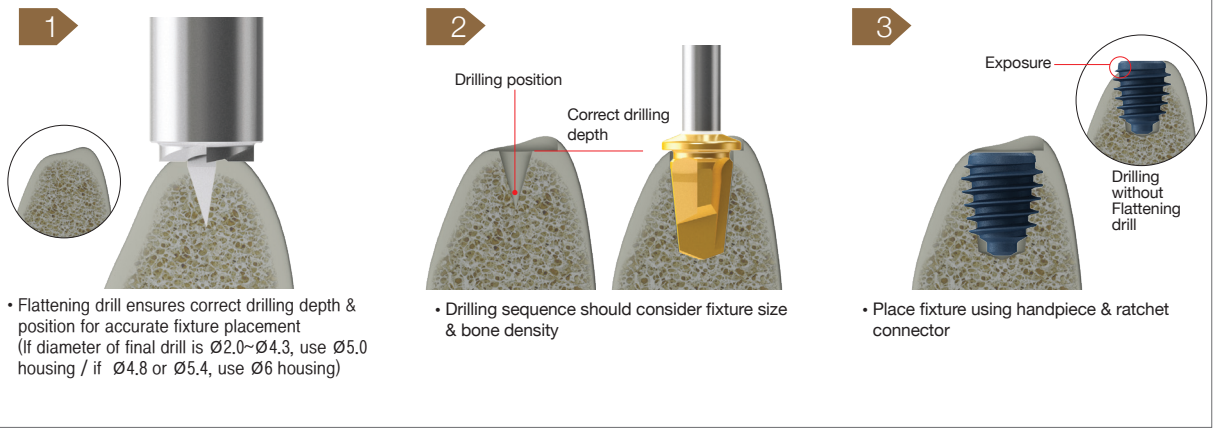
- TiN coated for enhanced corrosion & abrasion resistance

Profile Diameter	Length (mm)	Ref.C
Ø2.0	6.0	MS2005M
Ø2.5		*MS2505M
Ø2.8		MS2805M
Ø3.3		MS3305M
Ø3.8		MS3805M
Ø4.3		MS4305M
Ø4.8		MS4805M
Ø5.4		MS5405M

(*) Separate sales item.

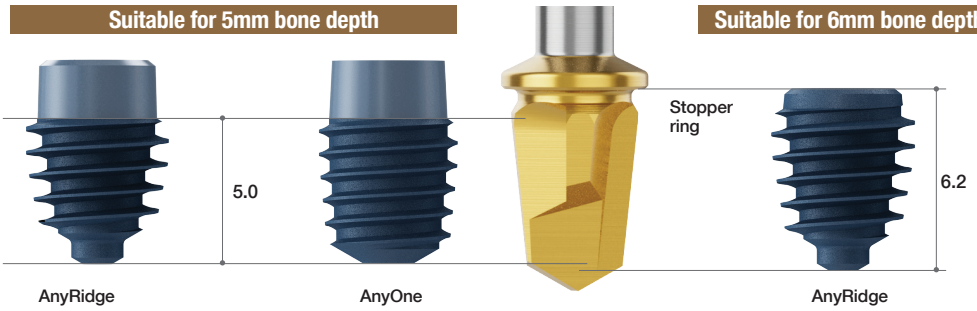


▸▸ Drilling Protocol

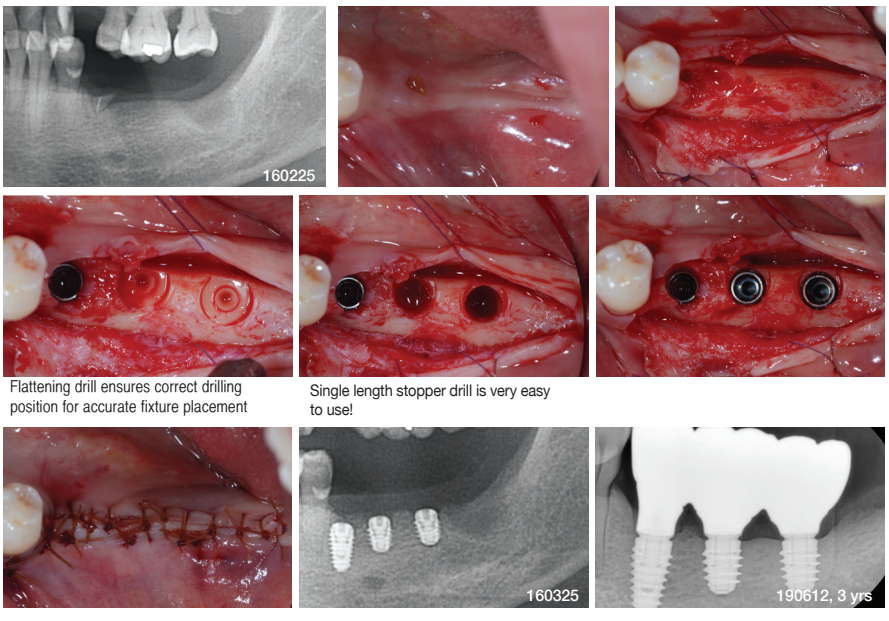


- Flattening drill ensures correct drilling depth & position for accurate fixture placement (If diameter of final drill is Ø2.0~Ø4.3, use Ø5.0 housing / if Ø4.8 or Ø5.4, use Ø6 housing)
- Drilling sequence should consider fixture size & bone density
- Place fixture using handpiece & ratchet connector

Drilling depth guide



➲ Clinical Case



Flattening drill ensures correct drilling position for accurate fixture placement

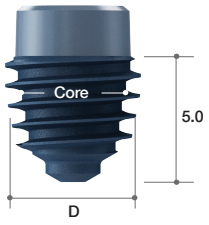
Single length stopper drill is very easy to use!

➲ Fixture Size

Short Implant

- Cover Screw included

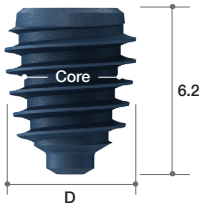
Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø3.5	3.3	5	AR333505C
Ø4.0	3.3		AR334005C
Ø4.5	3.3		AR334505C
	3.8		AR384505C
Ø5.0	3.3		AR335005C
	3.8		AR385005C
	4.3		AR435005C
Ø5.5	3.3		AR335505C
	3.8		AR385505C
	4.3		AR435505C
	4.8		AR485505C



Short Implant

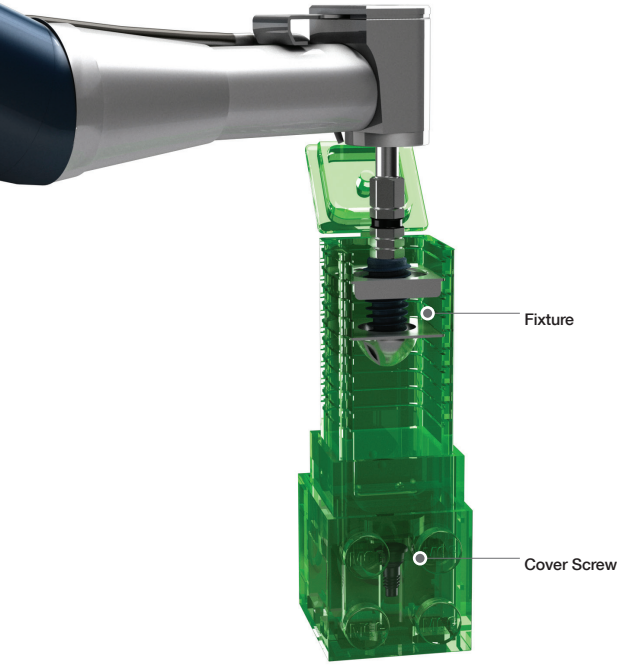
- Cover Screw included

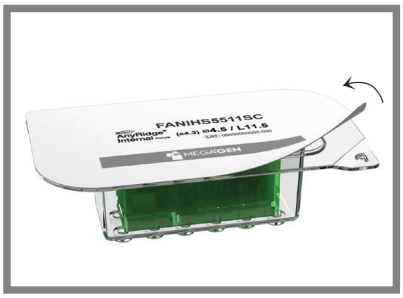
Fixture Diameter	Core Diameter	Length (mm)	Ref.C
Ø5.0	3.3	6.2	FANIHX5007C
	3.8		AR385007C
	4.0		FANIHX5007SC
	4.3		AR435007C
Ø5.5	3.3		FANIHX5507C
	3.8		AR385507C
	4.0		FANIHX5507SC
	4.3		AR435507C
	4.8		AR485507C



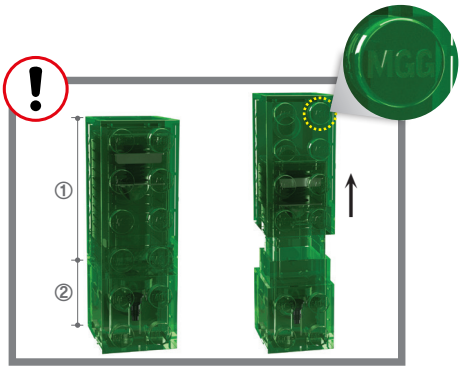
III. Packaging

- Ampule





Peel off cover & remove ampule

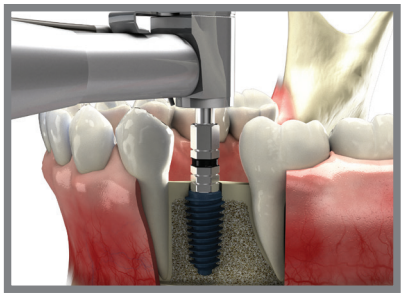


Separate top① & bottom②, as shown, to reveal inner ampule with fixture

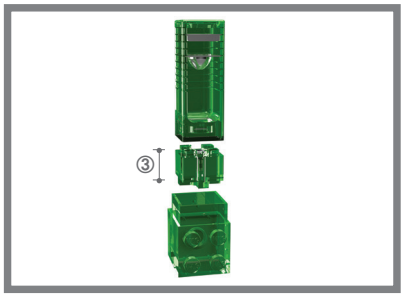
Flip open top to reveal fixture

Connect handpiece to fixture

Make sure fixture is fully connected, then remove from ampule

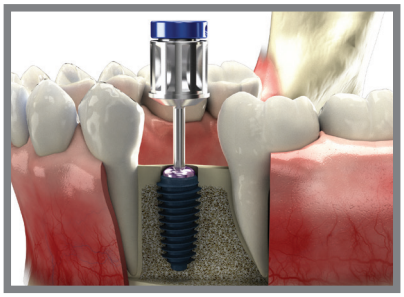


Place fixture according to drilling sequence



Separate fixture ampule from bottom, as shown, to reveal cover screw holder③

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 Screw & Healing Abutment

Cover Screw

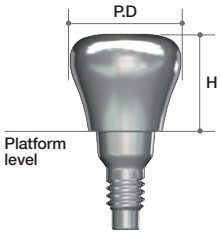
* Included in the fixture package.

- Use with a Hand Driver(1.2 Hex).
- Used for submerged type surgery.
- Protects the inner structure of a fixture.
- Different heights can be chosen according to the position of fixture below the crest.
- 1.6mm and 2.6mm height of Cover Screw can be purchased separately.
- Recommend torque : by hand (5 - 8Ncm)

Profile Diameter	Height (mm)	Ref.C
Ø3.5	0.8	AANCSF3508
	1.6	AANCSF3516
	2.6	AANCSF3526
Ø5.0	0.5	AANCSF5005
Ø6.0	0.5	AANCSF6005

Healing Abutment

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



Profile Diameter	Height (mm)	Ref.C
Ø4.0	3	AANHAF0403
	4	AANHAF0404
	5	AANHAF0405
	6	AANHAF0406
	7	AANHAF0407
	8	AANHAF0408
	9	AANHAF0409
Ø5.0	3	AANHAF0503
	4	AANHAF0504
	5	AANHAF0505
	6	AANHAF0506
	7	AANHAF0507
	8	AANHAF0508
	9	AANHAF0509
Ø6.0	3	AANHAF0603
	4	AANHAF0604
	5	AANHAF0605
	6	AANHAF0606
	7	AANHAF0607
	8	AANHAF0608
	9	AANHAF0609

Profile Diameter	Height (mm)	Ref.C
Ø7.0	3	AANHAF0703
	4	AANHAF0704
	5	AANHAF0705
	6	AANHAF0706
	7	AANHAF0707
	8	AANHAF0708
	9	AANHAF0709
Ø8.0	3	AANHAF0803
	4	AANHAF0804
	5	AANHAF0805
	6	AANHAF0806
	7	AANHAF0807
	8	AANHAF0808
	9	AANHAF0809
Ø10.0	3	AANHAF1003
	4	AANHAF1004
	5	AANHAF1005
	6	AANHAF1006
	7	AANHAF1007
	8	AANHAF1008
	9	AANHAF1009

All in one package

(Anatomic type)

Height (mm)	Connection	Ref.C
4	Hex	C-AHAR04HP
	Non-Hex	C-AHAR04NP
5	Hex	C-AHAR05HP
	Non-Hex	C-AHAR05NP
7	Hex	C-AHAR07HP
	Non-Hex	C-AHAR07NP

Healing Abutment

(Anatomic type)

- Use with a Hand Driver(1.2 Hex).
- Abutment Screw inclued.H=4 ARHAS1804/ H=5 ARHAS1805/ H=7 ARHAS1807
- Used for non-submerged type surgery or for two stage surgery.
- Choose appropriate diameter and height of Healing Abutment according to situation.
- Helps to form suitable emergence profile during period of gingival healing.
- Recommend torque : by hand (5 - 8Ncm)

Type	MD (mm)	LL (mm)	Position No.	Height (mm)	Connection	Ref.C
Incisor	4.0	5.0	I1	4	Hex	ARHI40504T
				5		ARHI40505T
				7		ARHI40507T
	4.5	4.5	I2	4		ARHI45454T
				5		ARHI45455T
				7		ARHI45457T
	6.0	5.0	I3	4		ARHI60504T
				5		ARHI60505T
				7		ARHI60507T
	7.0	6.0	I4	4		ARHI70604T
				5		ARHI70605T
				7		ARHI70607T
	4.0	5.0	I1	4	Non-Hex	ARHI40504NT
				5		ARHI40505NT
				7		ARHI40507NT
	4.5	4.5	I2	4		ARHI45454NT
				5		ARHI45455NT
				7		ARHI45457NT
	6.0	5.0	I3	4		ARHI60504NT
				5		ARHI60505NT
				7		ARHI60507NT
	7.0	6.0	I4	4		ARHI70604NT
				5		ARHI70605NT
				7		ARHI70607NT

Type	MD (mm)	LB (mm)	Position No.	Height (mm)	Connection	Ref.C
Canine	5.0	6.5	C1	4	Hex	ARHC50654T
				5		ARHC50655T
				7		ARHC50657T
	5.0	6.5	C1	4	Non-Hex	ARHC50654NT
				5		ARHC50655NT
				7		ARHC50657NT

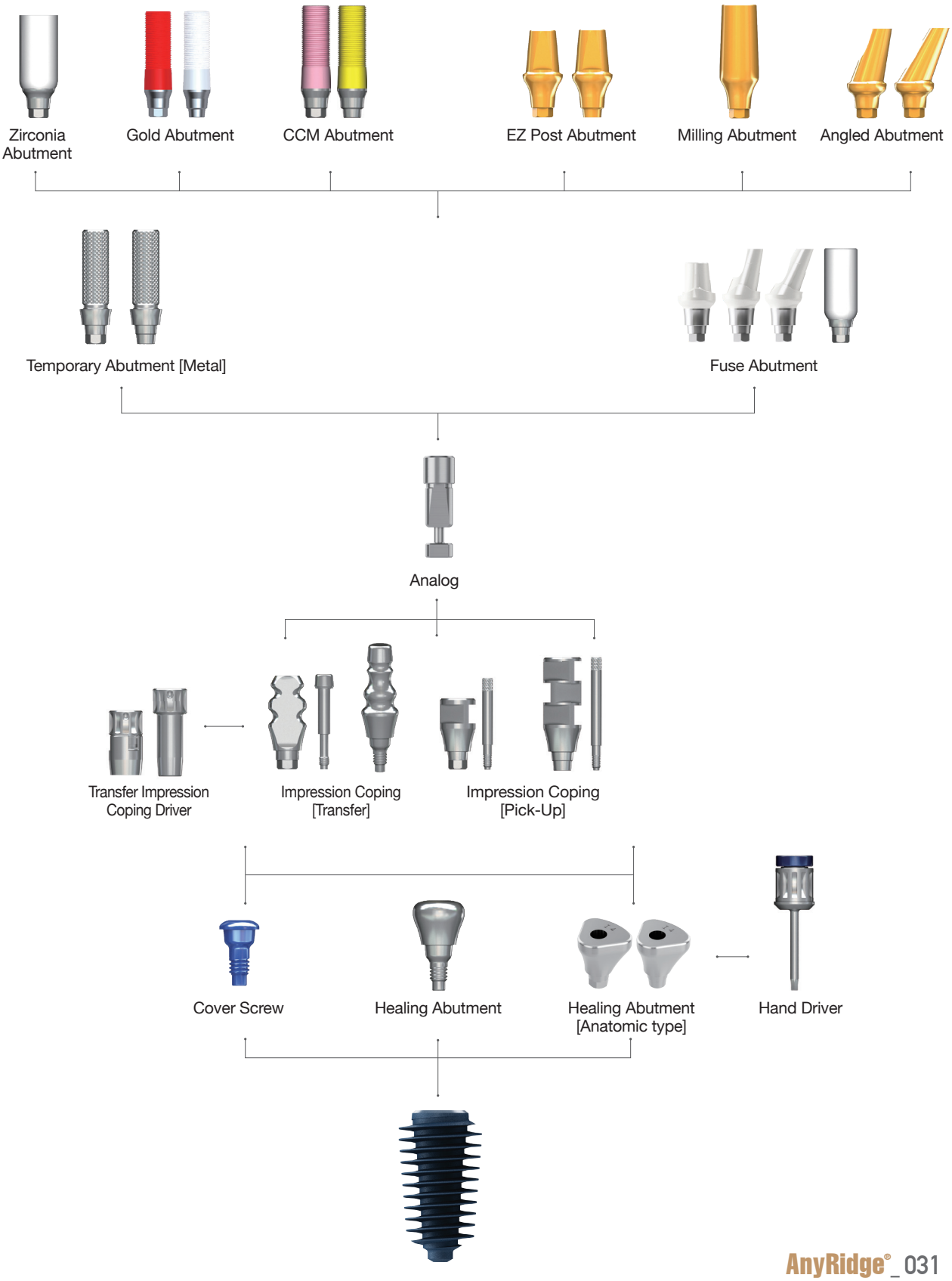
Type	MD (mm)	LB (mm)	Position No.	Height (mm)	Connection	Ref.C
Pre-Molar	4.5	6.0	P1	4	Hex	ARHM45604T
				5		ARHM45605T
				7		ARHM45607T
	5.0	7.0	P2	4		ARHM50704T
				5		ARHM50705T
				7		ARHM50707T
	4.5	6.0	P1	4	Non-Hex	ARHM45604NT
				5		ARHM45605NT
				7		ARHM45607NT
	5.0	7.0	P2	4		ARHM50704NT
				5		ARHM50705NT
				7		ARHM50707NT

Type	MD (mm)	LB (mm)	Position No.	Height (mm)	Connection	Ref.C
Molar	6.0	7.0	M1	4	Hex	ARHM60704T
				5		ARHM60705T
				7		ARHM60707T
	6.0	8.0	M2	4		ARHM60804T
				5		ARHM60805T
				7		ARHM60807T
	6.0	9.0	M3	4		ARHM60904T
				5		ARHM60905T
				7		ARHM60907T
	7.0	8.0	M4	4		ARHM70804T
				5		ARHM70805T
				7		ARHM70807T
	7.0	9.0	M5	4		ARHM70904T
				5		ARHM70905T
				7		ARHM70907T
	7.0	10.0	M6	4		ARHM70104T
				5		ARHM70105T
				7		ARHM70107T
	8.0	9.0	M7	4		ARHM80904T
				5		ARHM80905T
				7		ARHM80907T
	8.0	10.0	M8	4		ARHM80104T
				5		ARHM80105T
				7		ARHM80107T
	6.0	7.0	M1	4	Non-Hex	ARHM60704NT
				5		ARHM60705NT
				7		ARHM60707NT
	6.0	8.0	M2	4		ARHM60804NT
				5		ARHM60805NT
				7		ARHM60807NT
	6.0	9.0	M3	4		ARHM60904NT
				5		ARHM60905NT
				7		ARHM60907NT
	7.0	8.0	M4	4		ARHM70804NT
				5		ARHM70805NT
				7		ARHM70807NT
	7.0	9.0	M5	4		ARHM70904NT
				5		ARHM70905NT
				7		ARHM70907NT
	7.0	10.0	M6	4		ARHM70104NT
				5		ARHM70105NT
				7		ARHM70107NT
	8.0	9.0	M7	4		ARHM80904NT
				5		ARHM80905NT
				7		ARHM80907NT
	8.0	10.0	M8	4		ARHM80104NT
				5		ARHM80105NT
				7		ARHM80107NT

Type	MD (mm)	LB (mm)	Position No.	Height (mm)	Connection	Ref.C
Special	4.5	6.0	S1	4	Hex	ARHS45604T
				5		ARHS45605T
				7		ARHS45607T
	5.0	6.5	S2	4		ARHS50654T
				5		ARHS50655T
				7		ARHS50657T
	5.0	7.0	S3	4		ARHS50704T
				5		ARHS50705T
				7		ARHS50707T
	6.0	7.0	S4	4		ARHS60704T
				5		ARHS60705T
				7		ARHS60707T
	6.0	8.0	S5	4		ARHS60804T
				5		ARHS60805T
				7		ARHS60807T
	6.0	9.0	S6	4		ARHS60904T
				5		ARHS60905T
				7		ARHS60907T
	7.0	8.0	S7	4		ARHS70804T
				5		ARHS70805T
				7		ARHS70807T
	7.0	9.0	S8	4		ARHS70904T
				5		ARHS70905T
				7		ARHS70907T
	7.0	10.0	S9	4		ARHS70104T
				5		ARHS70105T
				7		ARHS70107T
	8.0	9.0	S10	4		ARHS80904T
				5		ARHS80905T
				7		ARHS80907T
	8.0	10.0	S11	4		ARHS80104T
				5		ARHS80105T
				7		ARHS80107T
	4.5	6.0	S1	4	Non-Hex	ARHS45604NT
				5		ARHS45605NT
				7		ARHS45607NT
	5.0	6.5	S2	4		ARHS50654NT
				5		ARHS50655NT
				7		ARHS50657NT
	5.0	7.0	S3	4		ARHS50704NT
				5		ARHS50705NT
				7		ARHS50707NT
	6.0	7.0	S4	4		ARHS60704NT
				5		ARHS60705NT
				7		ARHS60707NT
	6.0	8.0	S5	4		ARHS60804NT
				5		ARHS60805NT
				7		ARHS60807NT
	6.0	9.0	S6	4		ARHS60904NT
				5		ARHS60905NT
				7		ARHS60907NT
	7.0	8.0	S7	4		ARHS70804NT
				5		ARHS70805NT
				7		ARHS70807NT
	7.0	9.0	S8	4		ARHS70904NT
				5		ARHS70905NT
				7		ARHS70907NT
	7.0	10.0	S9	4		ARHS70104NT
				5		ARHS70105NT
				7		ARHS70107NT
	8.0	9.0	S10	4		ARHS80904NT
				5		ARHS80905NT
				7		ARHS80907NT
	8.0	10.0	S11	4		ARHS80104NT
				5		ARHS80105NT
				7		ARHS80107NT

Abutment & Prosthetic Options

I. Fixture Level Prosthesis



Impression Copings

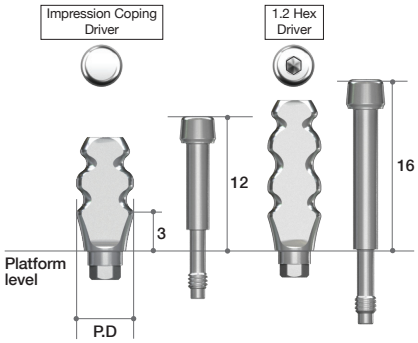
Impression Coping

(2-Piece, Transfer Type) (For Closed-Tray Technique)

- Guide Pins : AANGPT/AANGPT12H/AANGPT16/ AANGPT16H)

- Streamlined shape ; easy to transfer.
- Anti-rotation grooves match with hex structure of fixtures.
- Should be tightened with Impression Driver (Page.394)
- Impression Coping Driver and Hand Driver(1.2Hex) should be used to ensure Impression Coping is properly tightened.

Profile Diameter	Height (mm)	Type	Ref.C
Ø4.0	12	2-Piece	AANITH4012T
	16		AANITH4016T
Ø5.0	12		AANITH5012T
	16		AANITH5016T
Ø4.0	12	2-Piece Hand driver (1.2 Hex)	AANITH4012HT
	16		AANITH4016HT
Ø5.0	12		AANITH5012HT
	16		AANITH5016HT
Ø6.0	12		AANITH6012HT
Ø7.0	12		AANITH7012HT

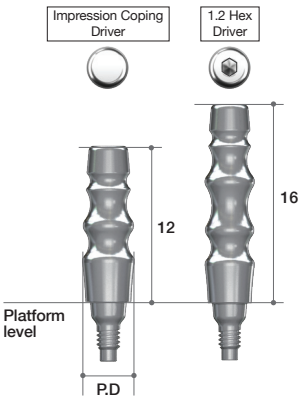


Impression Coping

(1-piece, Transfer Type) (For Closed-Tray Technique)

- Should be tightened with Impression Driver (Page.394)
- Impression Coping Driver and Hand Driver(1.2Hex) should be used to ensure Impression Coping is properly tightened.

Profile Diameter	Height (mm)	Type	Ref.C
Ø4.0	12	1-Piece	AANITN4012
	16		AANITN4016
Ø5.0	12		AANITN5012
	16		AANITN5016
Ø4.0	12	1-Piece Hand driver (1.2 Hex)	AANITN4012H
	16		AANITN4016H
Ø5.0	12		AANITN5012H
	16		AANITN5016H
Ø6.0	12		AANITN6012H
Ø7.0	12		AANITN7012H



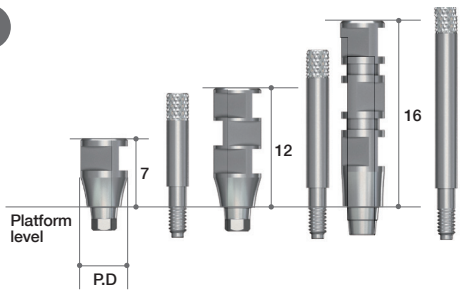
Impression Coping

(2-piece, Pick-up Type) (For Open-tray Technique)

- Guide Pins : AANGPP0010 (7mm : Short)
  AANGPP0015 (12mm : Long)
  AANGPP0020 (20mm : Extra-long)

- Square structure ; strong anti - rotation function.
- Designed for easy and accurate pick-up impression.
- Extra-long guide pin can be purchased separately.

Profile Diameter	Height (mm)	Type		Ref.C
Ø4.0	7	2-Piece	Hex	AANIPH4007T
	12			AANIPH4012T
	16			AANIPH4016T
	7		Non-Hex	AANIPN4007T
	12			AANIPN4012T
	16			AANIPN4016T
Ø5.0	7		Hex	AANIPH5007T
	12			AANIPH5012T
	7		Non-Hex	AANIPN5007T
	12			AANIPN5012T
Ø6.0	7		Hex	AANIPH6007T
	12			AANIPH6012T
	7		Non-Hex	AANIPN6007T
	12			AANIPN6012T
Ø7.0	7		Hex	AANIPH7007T
	12			AANIPH7012T
	7		Non-Hex	AANIPN7007T
	12			AANIPN7012T



Lab Analog & Temporary Abutment (Continued)

Bite Impression Coping

- Guide Pins : BIGP1824/1834/1844/1854/1846 /1856/1866) included

- Bite Tray can be used to solve the opposing teeth and impressions at once
- By giving a groove for final tightening, it's possible to check the connection by X-ray
- Screw will not be tightened if the coping and the fixture are not properly connected
- Exclusive B.I.C Carrier is used to tight the Impression Coping conveniently
- Different color according to Cuff Size

※Availability may vary by country

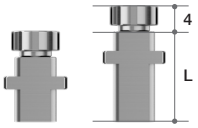
Profile Diameter	Cuff Height (mm)	Post Height (mm)	Ref.C
Ø5.5	2	4	ARBI5524T
	3		ARBI5534T
	4		ARBI5544T
	5		ARBI5554T
	4	6	ARBI5546T
	5		ARBI5556T
	6		ARBI5566T

B.I.C Carrier

- Bite Impression Coping can be transferred and fastened at once

※Availability may vary by country

Length (mm)	Ref.C
10	BICC10
14	BICC14

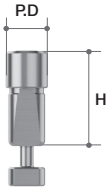


Analog

- Analog Screw(ALS18) included.

- For Chairside/ Labside
- Surpporting Dental CAD
  - 3Shape
  - exocad
- 2 piece type

System		Profile Diameter	Height (mm)	Ref.C
AnyRidge		Ø4.0	9	ARIALT
Octa Level	Small	Ø3.8	9	OCTAALST
	Regular	Ø4.8		OCTAALRT
	Wide	Ø5.8		OCTAALWT
MUA Level (N-Type)		Ø4.8	9	MUAALT



Lab Analog & Temporary Abutment

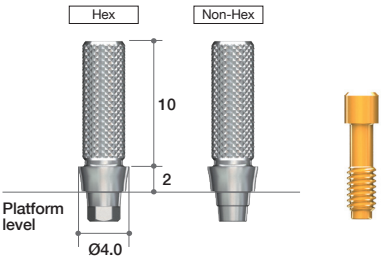
Temporary Abutment

(Titanium)

- Multi Post Screw(AANMSF) included.

- For making provisional restoration.
- Grooved on the post allows strong resin adherence.
- Recommend torque : 25Ncm

Profile Diameter	Cuff Height (mm)	Type	Ref.C
Ø4.0	2	Hex	AANTMH4012T
		Non-Hex	AANTMN4012T



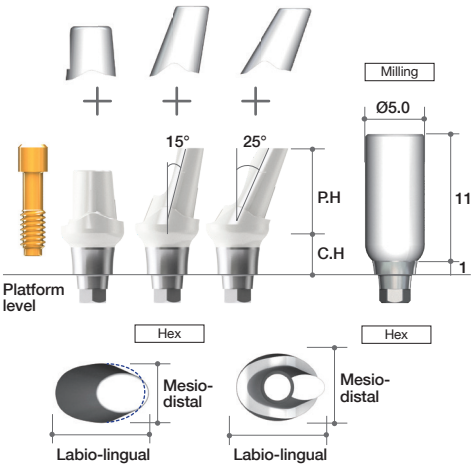
Fuse Abutment

- Straight, 15°, 25° ; Multi Post Screw(AANMSF) included + Fuse Cap included.
- Milling ; Multi Post Screw(AANMSF) included.

- Recommend torque : 25Ncm

Diameter Labio-lingual	Diameter Mesio-distal	C.H (mm)	P.H (mm)	Type	Ref.C
Ø5.5	Ø5.5	4	5.5	Straight	AFAP5545P
	Ø4.5		7	15°	AFAA5415P
				25°	AFAA5425P
Ø5.0		1	11	Milling	AANTAH5012T

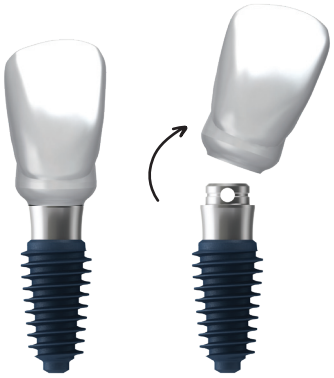
NEW : 4mm cuff height available
→ Adequate for deeply placed implants or thick gingival cases

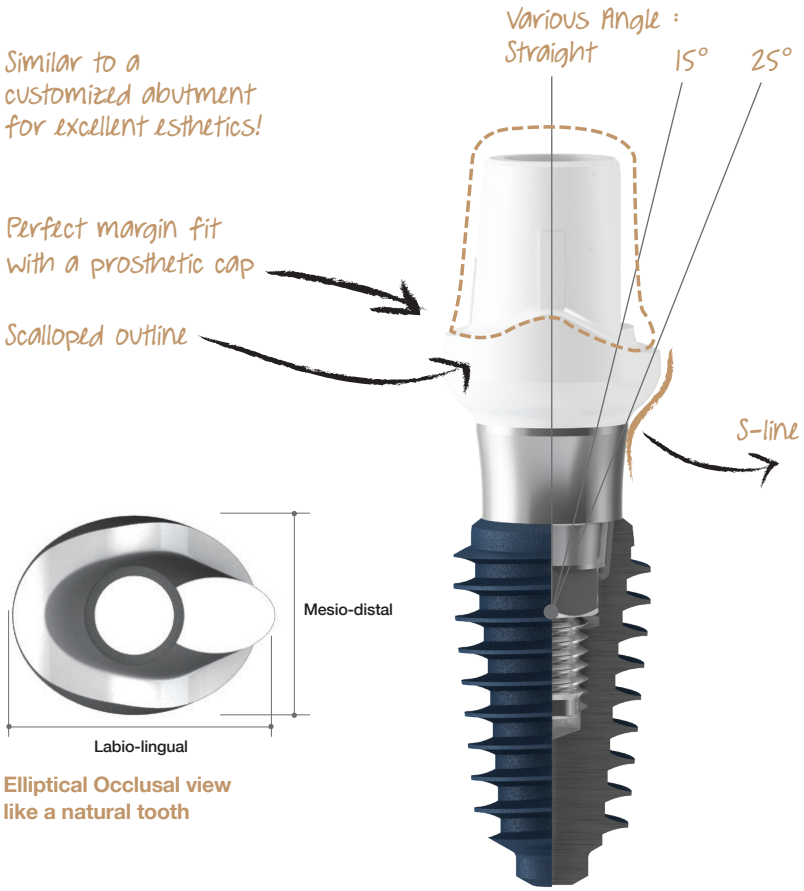


Fuse Abutment ™

Why is the 'Fuse Abutment' essential partner for a temporary crown?

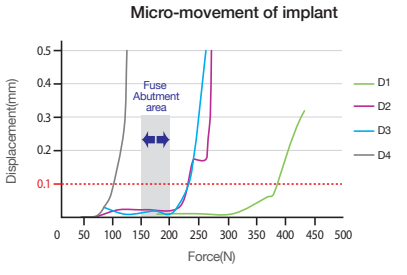
Design concept of Fuse Abutment™



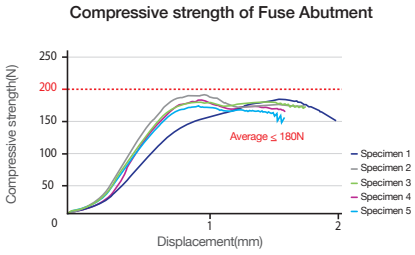


Elliptical Occlusal view like a natural tooth

Rationale of Fuse Abutment™

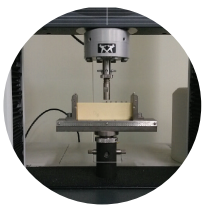


Performed compressive strength test to evaluate the micro movement for bone density using universal testing machine -R&D center in Megagen Implant Co.,Ltd.(2012)-



Performed compressive strength test to evaluate the yield strength for Fuse Abutment using universal testing machine -R&D center in Megagen Implant Co.,Ltd.(2012)-

In 1992, Brunski JB. reported that the implant may has a higher possibility of fibrointergration than osseointegration between bone and implant surface when movements of more than100um occur on the fixture during osseointegration period. (John B. Brunski, Biomechanical factors affecting the bone-dental implant interface. Clinical Materials, Vol. 10, 153-201) Therefore, the implant was needed to protected not to move when immediate loading is carried out. However, it is not easy to manage loading on the fixture, even when we used a resin temporarily with a titanium cylinder. It was thought that it was partly because of the metal component of temporary cylinder, which can deliver excessive forces to the fixture. This was one of the reasons which made clinicians hesitate the immediate loading procedure. So it was necessary to develop a special temporary cylinder. It should have been broken under the force which could lead fibrointegration or failure of osseointegration to protect the fixture. and it would be preferred if it was easy to make a temporary crown on this particular temporary cylinder. We tried to measure the force causing movement of 100μm on a fixture which was placed securely into adequate density of bone without defect. First, AnyRidge implants were placed into the internationally recognized standard bone block with more 40Ncm torque force and an abutment was connected on each implant. Instron equipment was used to measure the force to move a fixture 100μm. The average force was 220N (22.4 kgf). Therefore, if the new temporary abutment can be fractur under this force, it might protect the fixture from movement or failure.



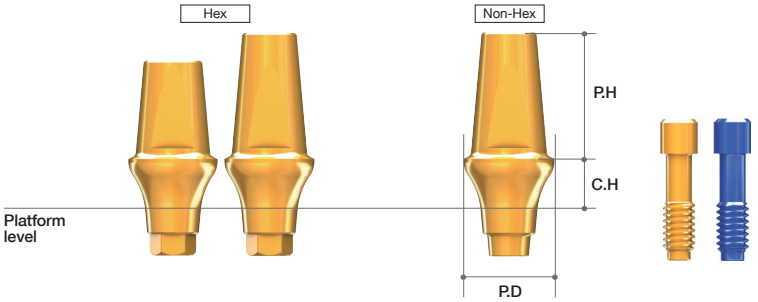
From this experiment, we could developed a special temporary abutment which has lower fracture threshold of less than 200 N (20.4 kgf). It was named as Fuse Abutment. Also it has an anatomic profiles to make temporary prosthetics more esthetic.

Abutment Options (Continued)

EZ Post Abutment

- Multi Post Screw(AANMSF/AANMST) included.

- Use with a Hand Driver (1.2 Hex).
- Esthetic gold coloring.
- Two different post heights. (5.5, 7.0mm)
- Four different profile diameters. (Ø4.0, 5.0, 6.0, 7.0)
- Four different cuff heights. (2.0, 3.0, 4.0, 5.0mm)
- Recommend torque : 35Ncm



Profile Diameter	Cuff Height(mm)	Post Height(mm)	Type	Ref.C
Ø4.0	2	5.5	Hex	AANEPH4025L
	3			AANEPH4035L
	4			AANEPH4045L
	5			AANEPH4055L
	2	7		AANEPH4027L
	3			AANEPH4037L
	4			AANEPH4047L
	5			AANEPH4057L
Ø4.0	2	5.5	Non-Hex	AANEPN4025L
	3			AANEPN4035L
	4			AANEPN4045L
	5			AANEPN4055L
	2	7		AANEPN4027L
	3			AANEPN4037L
	4			AANEPN4047L
	5			AANEPN4057L
Ø5.0	2	5.5	Hex	AANEPH5025L
	3			AANEPH5035L
	4			AANEPH5045L
	5			AANEPH5055L
	2	7		AANEPH5027L
	3			AANEPH5037L
	4			AANEPH5047L
	5			AANEPH5057L
Ø5.0	2	5.5	Non-Hex	AANEPN5025L
	3			AANEPN5035L
	4			AANEPN5045L
	5			AANEPN5055L
	2	7		AANEPN5027L
	3			AANEPN5037L
	4			AANEPN5047L
	5			AANEPN5057L

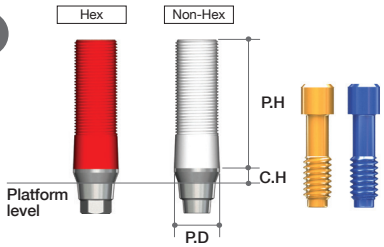
Profile Diameter	Cuff Height(mm)	Post Height(mm)	Type	Ref.C
Ø6.0	2	5.5	Hex	AANEPH6025L
	3			AANEPH6035L
	4			AANEPH6045L
	5			AANEPH6055L
	2	7		AANEPH6027L
	3			AANEPH6037L
	4			AANEPH6047L
	5			AANEPH6057L
Ø6.0	2	5.5	Non-Hex	AANEPN6025L
	3			AANEPN6035L
	4			AANEPN6045L
	5			AANEPN6055L
	2	7		AANEPN6027L
	3			AANEPN6037L
	4			AANEPN6047L
	5			AANEPN6057L
Ø7.0	2	5.5	Hex	AANEPH7025L
	3			AANEPH7035L
	4			AANEPH7045L
	5			AANEPH7055L
	2	7		AANEPH7027L
	3			AANEPH7037L
	4			AANEPH7047L
	5			AANEPH7057L
Ø7.0	2	5.5	Non-Hex	AANEPN7025L
	3			AANEPN7035L
	4			AANEPN7045L
	5			AANEPN7055L
	2	7		AANEPN7027L
	3			AANEPN7037L
	4			AANEPN7047L
	5			AANEPN7057L

Gold Abutment

- Multi Post Screw(AANMSF/AANMST) included.

- Useful to make a customized abutment in difficult situations.
- Precious and non-precious alloys.
- Melting point of gold alloy : 1063°C
- Threaded sleeves for convenient Resin / Wax-up.
- Recommend torque : 30Ncm

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Type	Ref.C
Ø4.0	1	11	Hex	AANGAH4012L
			Non-Hex	AANGAN4012L

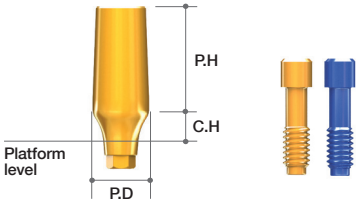


Milling Abutment

- Multi Post Screw(AANMSF/AANMST) included.

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

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Ref.C
Ø4.0	2	9	AANMAH4029L
	3		AANMAH4039L
	4		AANMAH4049L
	5		AANMAH4059L
Ø5.0	2	9	AANMAH5029L
	3		AANMAH5039L
	4		AANMAH5049L
	5		AANMAH5059L
Ø6.0	2	9	AANMAH6029L
	3		AANMAH6039L
	4		AANMAH6049L
	5		AANMAH6059L
Ø7.0	2	9	AANMAH7029L
	3		AANMAH7039L
	4		AANMAH7049L
	5		AANMAH7059L



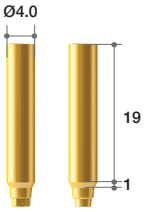
Abutment Options

Milling Abutment Type II
(GALLI Abutment)

- AnyRidge Internal : Multi Post Screw (AANMSF/ AANMST) included.

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

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Type	Ref.C
Ø4.0	1	19	Hex	ARBOT4019HL
			Non-Hex	ARBOT4019NL



GALLI Technique

MegaGen family thanks to MD. Oscar Alonso Gonzalez & Dr. Fabio Galli for the suggestion of B.O.P.T abutment

- To obtain thick, healthy and stable soft tissue around tooth

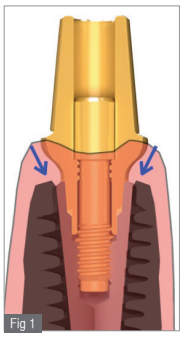


Fig 1

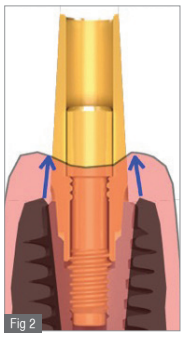


Fig 2

Fig 1. With its divergent profile, it tends to stabilize the circular fibers of the connective tissue towards apical.

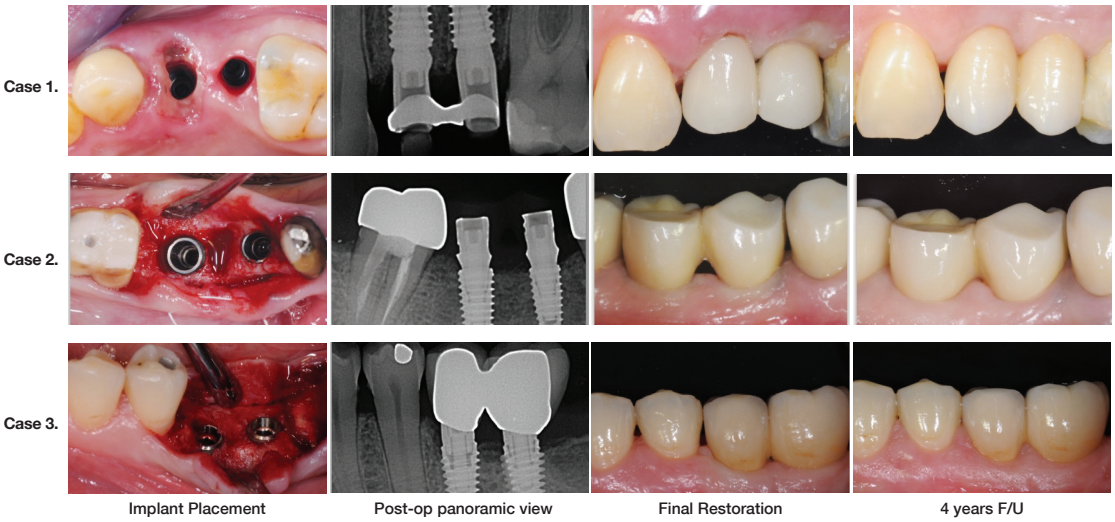
Fig 2. In the same way as with the teeth, this abutment facilitates the stabilization of the circular fibers of the connective tissue at a more coronal level compared to a standard rehabilitation.

Characteristics of GALLI Technique

1. Morphology without a finish line.
2. Conical Shape.
3. Prosthetic Platform Switching

GALLI Technique Clinical Case

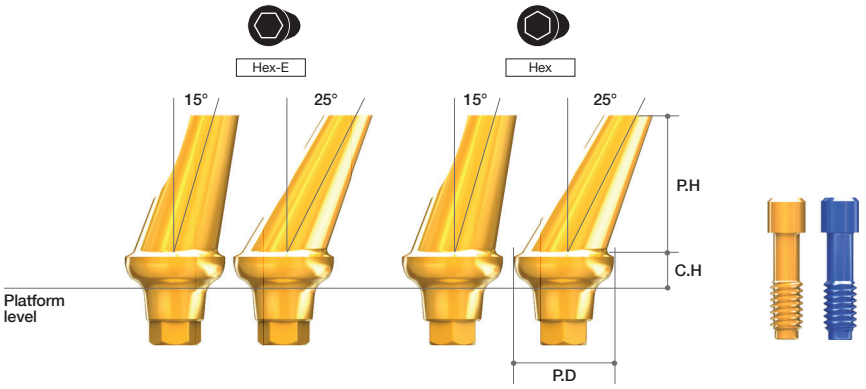
- Courtesy of Dr. Fabio Galli



Angled Abutment

- Multi Post Screw(AANMSF/AANMST) included.

- Two different angulations. (15°, 25°)
- Four different profile diameters. (Ø4.0, 5.0, 6.0, 7.0)
- Four different cuff heights. (2, 3, 4, 5mm)
- Can cover 12 different directions. [six to the surface(Hex), six to the edge of hex(Hex-E)]
- Esthetic gold coloring.
- Minimized screw head length needs minimum height to prevent milling problems.
- Recommend torque : 35Ncm



Profile Diameter	Cuff Height(mm)	Post Height(mm)	Type	Angle	Ref.C
Ø4.0	2	7	Hex	15°	AANAAH4215L
	3				AANAAH4315L
	4				AANAAH4415L
	5				AANAAH4515L
	2		Hex-E		AANAAE4215L
	3				AANAAE4315L
	4				AANAAE4415L
	5				AANAAE4515L
	2		Hex	25°	AANAAH4225L
	3				AANAAH4325L
	4				AANAAH4425L
	5				AANAAH4525L
	2		Hex-E		AANAAE4225L
	3				AANAAE4325L
	4				AANAAE4425L
	5				AANAAE4525L
Ø5.0	2	7	Hex	15°	AANAAH5215L
	3				AANAAH5315L
	4				AANAAH5415L
	5				AANAAH5515L
	2		Hex-E		AANAAE5215L
	3				AANAAE5315L
	4				AANAAE5415L
	5				AANAAE5515L
	2		Hex	25°	AANAAH5225L
	3				AANAAH5325L
	4				AANAAH5425L
	5				AANAAH5525L
	2		Hex-E		AANAAE5225L
	3				AANAAE5325L
	4				AANAAE5425L
	5				AANAAE5525L

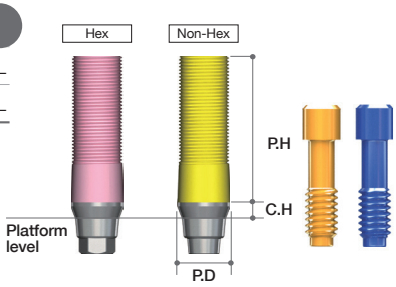
Profile Diameter	Cuff Height(mm)	Post Height(mm)	Type	Angle	Ref.C
Ø6.0	2	7	Hex	15°	AANAAH6215L
	3				AANAAH6315L
	4				AANAAH6415L
	5				AANAAH6515L
	2		Hex-E		AANAAE6215L
	3				AANAAE6315L
	4				AANAAE6415L
	5				AANAAE6515L
	2		Hex	25°	AANAAH6225L
	3				AANAAH6325L
	4				AANAAH6425L
	5				AANAAH6525L
	2		Hex-E		AANAAE6225L
	3				AANAAE6325L
	4				AANAAE6425L
	5				AANAAE6525L
Ø7.0	2	7	Hex	15°	AANAAH7215L
	3				AANAAH7315L
	4				AANAAH7415L
	5				AANAAH7515L
	2		Hex-E		AANAAE7215L
	3				AANAAE7315L
	4				AANAAE7415L
	5				AANAAE7515L
	2		Hex	25°	AANAAH7225L
	3				AANAAH7325L
	4				AANAAH7425L
	5				AANAAH7525L
	2		Hex-E		AANAAE7225L
	3				AANAAE7325L
	4				AANAAE7425L
	5				AANAAE7525L

CCM Abutment

- Multi Post Screw(AANMSF/AANMST) included.

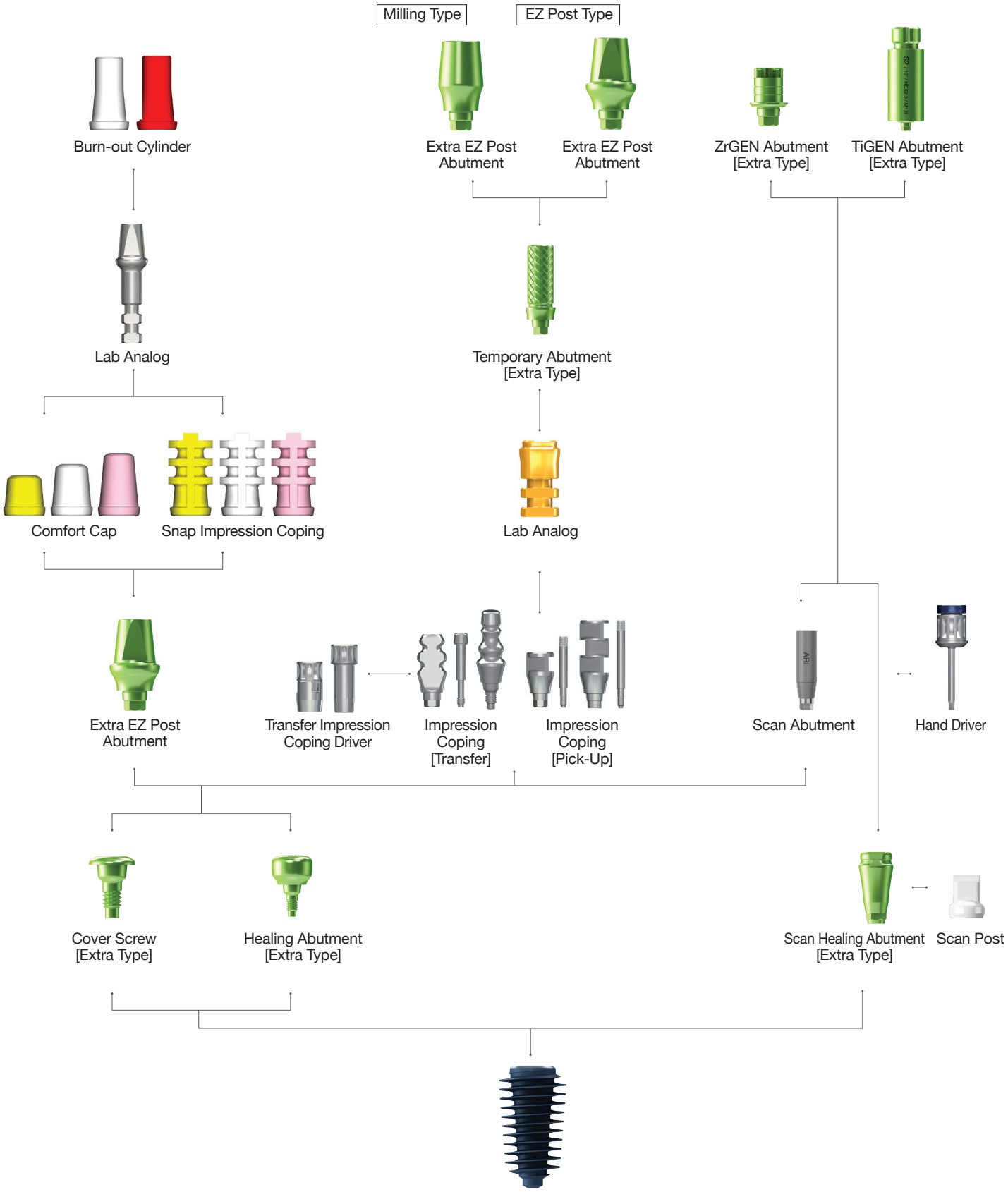
- Useful to make a customized abutment in difficult situations.
- Can be casted with non-precious alloys (Ni-Cr, Cr-Co alloys).
- Non-precious melting temperature : Depend on Manufacturer
- Threaded sleeves for convenient Resin / Wax-up.
- Melting temperature of CCM : 1300~1400°C
- Recommend torque : 35Ncm

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Type	Ref.C
Ø4.0	1	11	Hex	AANCAH4012L
			Non-Hex	AANCAN4012L



I. Fixture Level Prosthesis

1. Fixture Level Prosthesis_Extra EZ Post

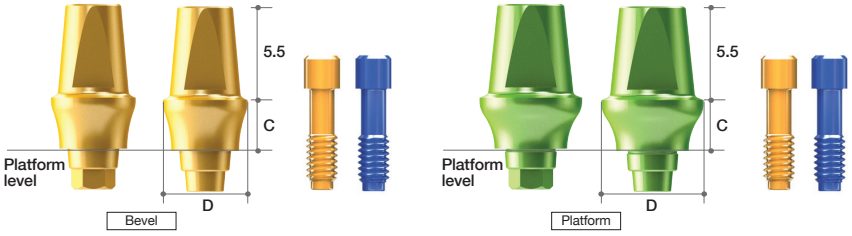


Extra EZ Post Abutment

Extra EZ Post Abutment

- Multi Post Screw(AANMSF/AANMST) included.

- Useful when fixture is exposed over the gum line.
- Recommend torque : 35Ncm



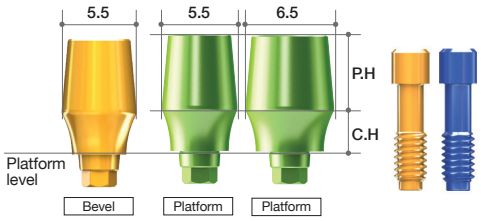
EZ Post Type

Core Diameter	Profile Diameter	Cuff	Type		Ref.C
Ø3.3	Ø5.0	2	Bevel	Hex	ARNEEH5025L
		3			ARNEEH5035L
		4			ARNEEH5045L
		5			ARNEEH5055L
		2		Non-Hex	ARNEEN5025L
		3			ARNEEN5035L
		4			ARNEEN5045L
		5			ARNEEN5055L
	Ø6.0	2		Hex	ARNEEH6025L
		3			ARNEEH6035L
		4			ARNEEH6045L
		5			ARNEEH6055L
		2		Non-Hex	ARNEEN6025L
		3			ARNEEN6035L
		4			ARNEEN6045L
		5			ARNEEN6055L

Core Diameter	Profile Diameter	Cuff	Type		Ref.C
Ø4.0	Ø6.0	2	Platform	Hex	ARREEH6025L
		3			ARREEH6035L
		4			ARREEH6045L
		5			ARREEH6055L
		2		Non-Hex	ARREEN6025L
		3			ARREEN6035L
		4			ARREEN6045L
		5			ARREEN6055L
	Ø7.0	2		Hex	ARREEH7025L
		3			ARREEH7035L
		4			ARREEH7045L
		5			ARREEH7055L
		2		Non-Hex	ARREEN7025L
		3			ARREEN7035L
		4			ARREEN7045L
		5			ARREEN7055L

Milling Type

Core Diameter	Profile Diameter	Cuff Height	Post Height	Type	Ref.C
Ø3.3	Ø5.5	3	5.5	Bevel	AANEEH3335L
Ø4.0	Ø5.5			Platform	AANEEH4035L
Ø4.8	Ø6.5				AANEEH4835L



- AANEEH3335 used for fixture (Ø4.0~5.5)
- AANEEH4035 used for fixture (Ø5.0, Ø5.5_Core ø4)
  - AANEEH4035 is for the Core Diameter ø4.0mm (Fixture Diameter Ø5.0~5.5mm). It also can be used for Fixture Diameter Ø6.0~8.0mm for platform switching.
- AANEEH4835 used for fixture (Ø6.0~8.0)
- Recommend torque : 35Ncm

Components for Extra EZ Post Abutment (Continued)

Cover Screw

(Extra Type)

- Included in the fixture package.

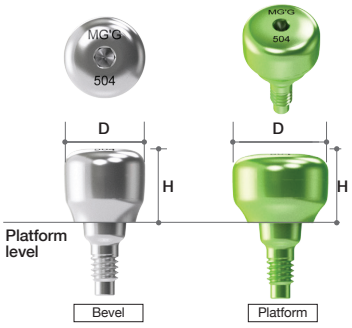
- Use with a Hand Driver(1.2 Hex).
- Used for submerged type surgery.
- Protects the inner structure of a fixture.
- Different heights can be chosen according to the position of fixture below the crest.
- 1.6mm and 2.6mm height of Cover Screw can be purchased separately.
- Recommend torque : by hand (5 - 8Ncm)

Core Diameter	Profile Diameter	Type	Ref.C
Ø3.3	Ø4.0	Bevel	AANCSF4008
Ø4.0	Ø4.25	Platform	AANCSF4208

Extra Healing Abutment

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

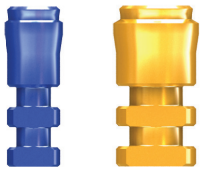
Core Diameter	Profile Diameter	Height (mm)	Type	Ref.C
Ø3.3	Ø5.0	3	Bevel	ARNEHA503
		4		ARNEHA504
		5		ARNEHA505
		6		ARNEHA506
		7		ARNEHA507
	Ø6.0	3		ARNEHA603
		4		ARNEHA604
		5		ARNEHA605
		6		ARNEHA606
		7		ARNEHA607
Ø4.0	Ø4.2	3	Platform	ARREHA403
		4		ARREHA404
		5		ARREHA405
		6		ARREHA406
		7		ARREHA407
		8		ARREHA408
		9		ARREHA409
	Ø6.0	3		ARREHA603
		4		ARREHA604
		5		ARREHA605
		6		ARREHA606
		7		ARREHA607
	Ø7.0	3		ARREHA703
		4		ARREHA704
		5		ARREHA705
		6		ARREHA706
		7		ARREHA707
Ø4.8	Ø6.5	4		AANHAF484



Lab Analog

- Blue : use Bevel type
- Yellow : use Platform type

Profile Diameter	Color	Ref.C
Ø4.0 ~ Ø5.5	Blue	AANLAF4055
Ø6.0 ~ Ø8.0	Yellow	AALLAF6080

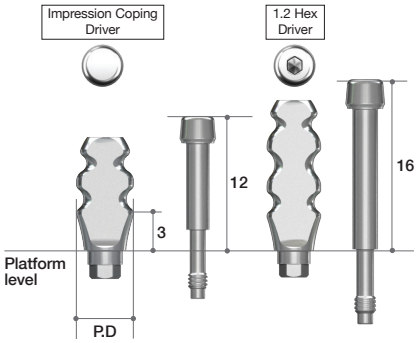


Impression Coping

(2-piece, Transfer Type)
(For Closed-tray Technique)

- Streamlined shape ; easy to transfer.
- Anti-rotation grooves match with hex structure of fixtures.
- Should be tightened with Impression Coping Driver (Page.394)
- Special impression coping screw which can be used with a 1.2mm hex driver is available on request.

Profile Diameter	Height (mm)	Type	Ref.C
Ø4.0	12	2-Piece	AANITH4012T
	16		AANITH4016T
Ø5.0	12		AANITH5012T
	16		AANITH5016T
Ø4.0	12	2-Piece Hand driver (1.2 Hex)	AANITH4012HT
	16		AANITH4016HT
Ø5.0	12		AANITH5012HT
	16		AANITH5016HT
Ø6.0	12		AANITH6012HT
Ø7.0	12		AANITH7012HT

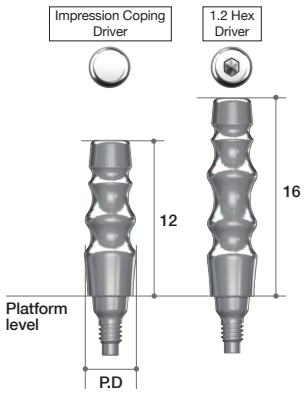


Impression Coping

(1-piece, Transfer Type)
(For Closed-tray Technique)

- Should be tightened with Impression Coping Driver (Page.394)

Profile Diameter	Height (mm)	Type	Ref.C
Ø4.0	12	1-Piece	AANITN4012
	16		AANITN4016
Ø5.0	12		AANITN5012
	16		AANITN5016
Ø4.0	12	1-Piece Hand driver (1.2 Hex)	AANITN4012H
	16		AANITN4016H
Ø5.0	12		AANITN5012H
	16		AANITN5016H
Ø6.0	12		AANITN6012H
Ø7.0	12		AANITN7012H



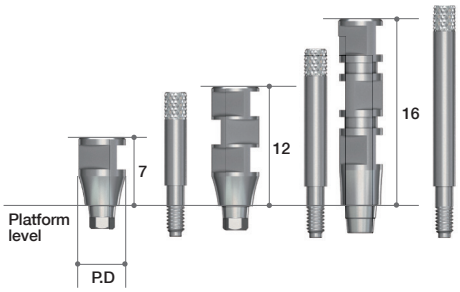
Impression Coping

(2-piece, Pick-up Type)
(For Open-tray Technique)

- Guide Pins : AANGPP0010 (7mm : Short) / AANGPP0015 (12mm : Long) / AANGPP0020 (20mm : Extra-long)

- Square structure ; strong antirotation function.
- Designed for easy and accurate pick-up impression.
- Extra-long guide pin can be purchased separately.

Profile Diameter	Height (mm)	Type		Ref.C
Ø4.0	7	2-Piece	Hex	AANIPH4007T
	12			AANIPH4012T
	16			AANIPH4016T
	7		Non-Hex	AANIPN4007T
	12			AANIPN4012T
	16			AANIPN4016T
Ø5.0	7		Hex	AANIPH5007T
	12			AANIPH5012T
	7		Non-Hex	AANIPN5007T
	12			AANIPN5012T
Ø6.0	7		Hex	AANIPH6007T
	12			AANIPH6012T
	7		Non-Hex	AANIPN6007T
	12			AANIPN6012T
Ø7.0	7		Hex	AANIPH7007T
	12			AANIPH7012T
	7		Non-Hex	AANIPN7007T
	12			AANIPN7012T

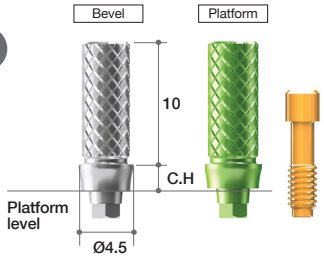


Temporary Abutment

(Extra Type)

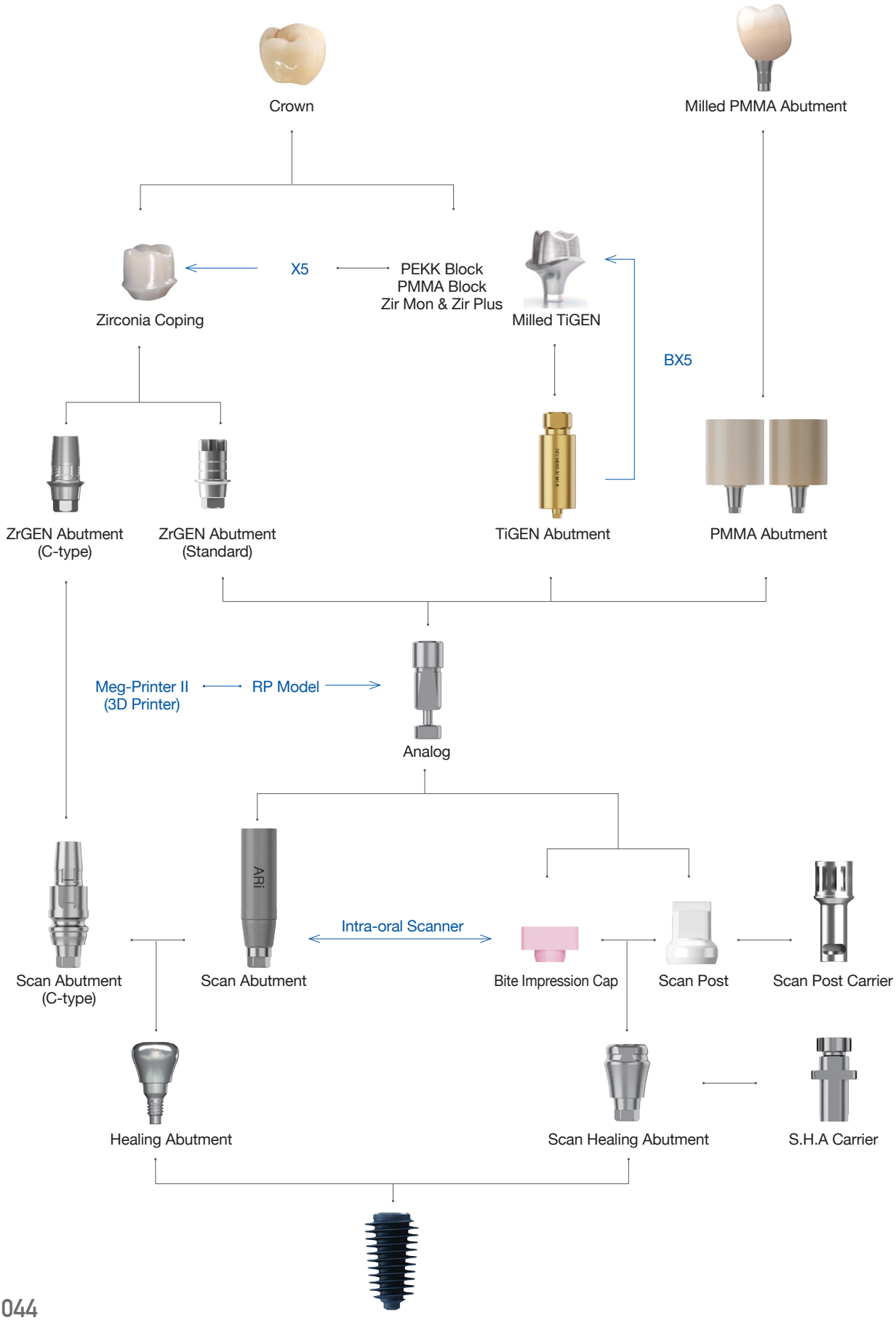
- Fixture package included.

Core Diameter	Profile Diameter	Cuff Height (mm)	Type		Ref.C
Ø3.3	Ø4.5	2	Bevel	Hex	ARNTAH4510T
		2		Non-Hex	ARNTAN4510T
Ø4.0	Ø4.75	2	Platform	Hex	ARRTAH4710T
		2		Non-Hex	ARRTAN4710T



I. Fixture Level Prosthesis

2. Fixture Level Prosthesis_Digital



▸▸ Digital Material

I. ZrGEN®

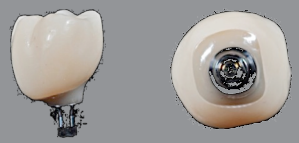
ZrGEN® is the brand name of MegaGen's Titanium Base. ZrGEN provides an aesthetic outcome and simplified dental implant prosthesis. A ZrGEN® crown and monolithic crown connected to a ZrGEN® Abutment provide strong and precise connection with the implant fixture.

Variety of ZrGEN®

ZrGEN® Sub Structure

ZrGEN®

The strength of ZrGEN® frees you from the chipping of conventional PFM prosthesis. Monolithic zirconia crowns have no metal substructure, ensuring more aesthetic results. ZrGEN® crown and bridge are a superior substitutes for all conventional dental materials.



II. TiGEN®

TiGEN® is the brand name of MegaGen's Pre-milled Abutment.
It promises outstanding durability and simplified dental implant prosthesis. Ready-made connection part provides a strong and precise connection with the implant fixture.

Clinical Application

Product coordinator : Joo Hwan Sung, r2.dev6@imegagen.com

➲ Scan Abutment & Analog Option

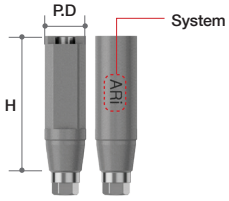
Scan Abutment

- Abutment Screw included.
  ✓ AnyRidge (SAAANMSF)
  ✓ Octa Level (SAIRCS200)
  ✓ MUA Level (SAMUAS)

- For Chairside/ Labside
- Included spare Abutment Screw
- Surpporting Dental CAD
  - 3Shape / exocad / Dental Wings
- Recommend torque : By Hand (5~8Ncm)

Standard

System	Profile Diameter	Height (mm)	Ref.C
AnyRidge	Ø4.0	9	AANISR4009T
		13	AANISR4013T
Octa Level	Ø4.0	11	AOCESC4011T
MUA Level (N Type)	Ø4.0	13	AMUASR4013T

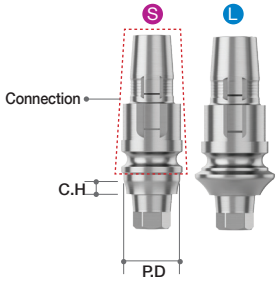


- Abutment Screw included.
  ✓ AnyRidge (SAAANMSF)

- ScanPost for CEREC users.
- It is used when the exposure of the post part of ZrGEN Abutment (C-type) is small or when scanning is not easy due to the environment such as interference of surrounding teeth.
- Fasten by using Sirona Scanbody.
- In in Lab CAD Software, compatible with Xive Library.
- Recommend torque : By Hand (5~8Ncm)

C-type

Profile Diameter	Cuff Height (mm)	Connection	Ref.C
Ø3.9	0.5	S	ARICSS3405T
	1		ARICSS3410T
	2		ARICSS3420T
Ø4.3	0.5		ARICSS3805T
	1		ARICSS3810T
	2		ARICSS3820T
Ø5.5	0.5	L	ARICSL4505T
	1		ARICSL4510T
	2		ARICSL4520T



Scan Healing Abutment

- Abutment Screw included.
  ✓ AnyRidge (ARIHS1804/ARIHS1805/ ARIHS1807/ ARIHS1809)

- Scannable Healing Abutment.
- For accurate scanning, Scan Healing Abutment must be exposed at least 2.0mm from surgical site.
- Profile Diameter can be checked by the number of Groove.
  - Profile Diameter : Ø4 → Groove : 0ea
  - Profile Diameter : Ø5 → Groove : 1ea
  - Profile Diameter : Ø6 → Groove : 2ea
  - Profile Diameter : Ø7 → Groove : 3ea
- Height can be checked by the number of Notch.
  - Height : 4mm → Notch : 0ea
  - Height : 5mm → Notch : 1ea
  - Height : 7mm → Notch : 2ea
  - Height : 9mm → Notch : 3ea
- Recommend torque : By Hand (5~8Ncm)
- Height 9mm - FDA : Approved in 2023

Standard

Profile Diameter	Height (mm)	Ref.C
Ø4.0	4	ARISH4004T
	5	ARISH4005T
	7	ARISH4007T
	9	ARISH4009T
Ø5.0	4	ARISH5004T
	5	ARISH5005T
	7	ARISH5007T
	9	ARISH5009T
Ø6.0	4	ARISH6004T
	5	ARISH6005T
	7	ARISH6007T
	9	ARISH6009T
Ø7.0	4	ARISH7004T
	5	ARISH7005T
	7	ARISH7007T
	9	ARISH7009T

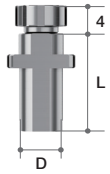
Extra

Fixture Core Diameter	Profile Diameter	Height (mm)	Ref.C
Ø3.3	Ø5.0	4	ARNSH5004T
		5	ARNSH5005T
		7	ARNSH5007T
		9	ARNSH5009T
	Ø6.0	4	ARNSH6004T
		5	ARNSH6005T
		7	ARNSH6007T
		9	ARNSH6009T
Ø4.0	Ø6.0	4	ARRSH6004T
		5	ARRSH6005T
		7	ARRSH6007T
		9	ARRSH6009T
	Ø7.0	4	ARRSH7004T
		5	ARRSH7005T
		7	ARRSH7007T
		9	ARRSH7009T

S.H.A Carrier
(Coming Soon)

- It is used by fastening it to the head of the scan healing abutment.
- It is used when transporting the S.H.A Carrier to the fixture after fastening it to the Scan Healing Abutment.

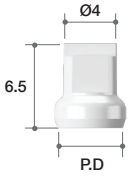
Diameter	Length (mm)	Ref.C
Ø4.0	10	SHC4010
	14	SHC4014
Ø5.0	10	SHC5010
	14	SHC5014
Ø6.0	10	SHC6010
	14	SHC6014
Ø7.0	10	SHC7010
	14	SHC7014



Scan Post

- Scan Healing Abutment should be exposed 2.0mm from the surgical site for accurate scanning. Scanning would be much easier if you connect Scan Post when scanning seems difficult due to less exposure of Scan Healing Abutment or other conditions.
- Select Scan Post based on the diameter of Scan Healing Abutment.
- Scan Post is a disposable product.
- 1 set consists of 10 Scan Posts.

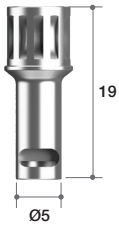
Profile Diameter	Height (mm)	Ref.C
Ø4.0	6.5	SP4007.MTN
Ø5.0		SP5007.MTN
Ø6.0		SP6007.MTN
Ø7.0		SP7007.MTN



Scan Post Carrier

- It is used by fastening it to the head of the scan post.
- It is used when transporting the scan post to the fixture after fastening it to the scan healing abutment.

Profile Diameter	Length (mm)	Ref.C
Ø5.0	19	SPC16

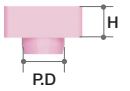


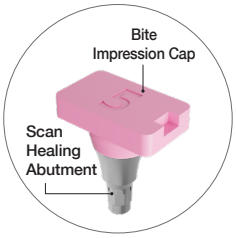
Bite Impression Cap

- If the Scan Healing Abutment is not exposed to more than 2.0mm at the surgical site or is not easy to scan due to environment such as interference of the surrounding values, the Bite Impression Cap is fastened to obtain the Scan, Impression, or Bite.
- Bite Impression Cap is selected according to the Profile Diameter of the Scan Healing Abutment.
- The Bite Impression Cap is for one-time use and includes 5 in 1 set.

※ Availability may vary by country

Profile Diameter	Height (mm)	Ref.C
Ø4.0	2	BIC4002P
	4	BIC4004P
	6	BIC4006P
Ø5.0	2	BIC5002P
	4	BIC5004P
	6	BIC5006P
Ø6.0	2	BIC6002P
	4	BIC6004P
	6	BIC6006P
Ø7.0	2	BIC7002P
	4	BIC7004P
	6	BIC7006P



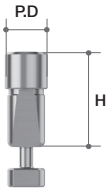


Analog

- Analog Screw(ALS18) included.

- For Chairside/ Labside
- Surpporting Dental CAD
  - 3Shape
  - exocad
- 2 piece type

System		Profile Diameter	Height (mm)	Ref.C
AnyRidge		Ø4.0	9	ARIALT
Octa Level	Small	Ø3.8	9	OCTAALST
	Regular	Ø4.8		OCTAALRT
	Wide	Ø5.8		OCTAALWT
MUA Level (N-Type)		Ø4.8	9	MUAALT



➲ PMMA Abutment Option

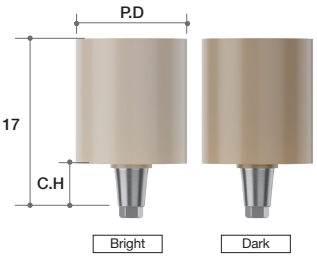
PMMA Abutment

(Comming soon)

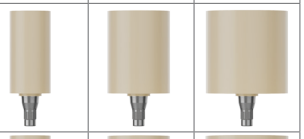
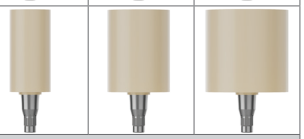
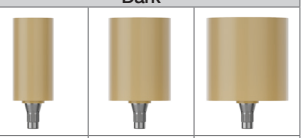
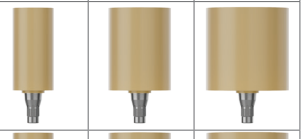
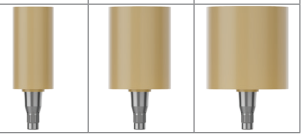
- Abutment Screw included.
  ✓ AnyRidge (AANMSF)

- Pre-milled Abutment
  - Pre-milled part : Implant Connection + Cuff (0.6/ 1.5/ 3.0mm)
- 1 Set consists of 10 Abutments
  - included spare Abutment Screw
- Supporting Dental CAD
  - 3 Shape
  - exocad
- Supporting Milling Machine
  - MegaGen Implant : BX5
  - ARUM DENTISTRY
- Recommend torque : 25Ncm
- FDA : Approved in 2024
- CE : Approved in 2024

Color	Profile Diameter	Cuff Height (mm)	Length (mm)	Type	Ref.C
Bright	Ø8	0.6	17	Hex	ARPA0608B.MTN
		1.5			ARPA1508B.MTN
		3.0			ARPA3008B.MTN
	Ø12	0.6			ARPA0612B.MTN
		1.5			ARPA1512B.MTN
		3.0			ARPA3012B.MTN
	Ø16	0.6			ARPA0616B.MTN
		1.5			ARPA1516B.MTN
		3.0			ARPA3016B.MTN
Dark	Ø8	0.6			ARPA0608D.MTN
		1.5			ARPA1508D.MTN
		3.0			ARPA3008D.MTN
	Ø12	0.6			ARPA0612D.MTN
		1.5			ARPA1512D.MTN
		3.0			ARPA3012D.MTN
	Ø16	0.6			ARPA0616D.MTN
		1.5			ARPA1516D.MTN
		3.0			ARPA3016D.MTN

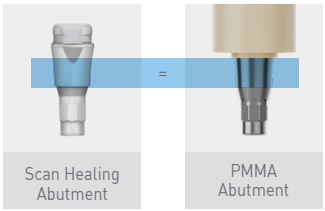


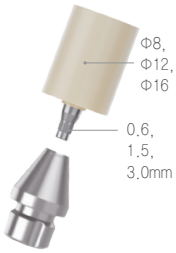
[PMMA Abutment Line-Up]

	Bright		
	D8	D12	D16
C0.6			
C1.5			
C3.0			
	Dark		
C0.6			
C1.5			
C3.0			

➢ **PMMA Abutment have same form of cuff shape as the Scan Healing Abutment thus custom abutment with perfectly fit to emergence profile can be fabricated**

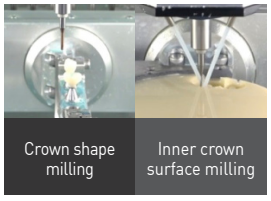
· Various cuff sizes for various gingival heights

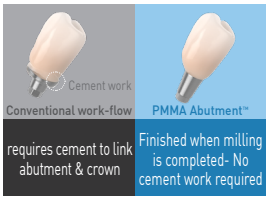




➢ **Integrated Ti-base & PMMA**

· No inner crown surface milling, reducing processing time by 30%!
· No cement work between Ti-base & crown!
· 50% reduction in processing time!





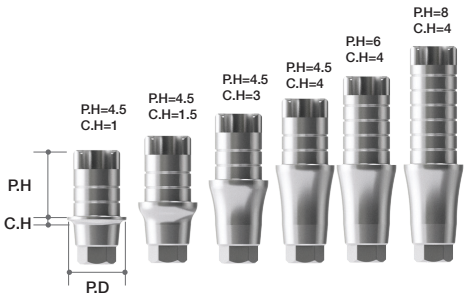
➲ ZrGEN Abutment Option (Continued)

ZrGEN Abutment

- Abutment Screw included.
  - ✓ AnyRidge (AANMSF)
  - ✓ Octa Level (IRCS200)
  - ✓ MUA Level (MUAS)

- Titanium Base
- 1 set consists of 10 Abutments.
  - included spare Abutment Screw
  - MiNi ZrGEN has special abutment screw (Available only in ZrGEN Abutment)

- Supporting DentalCAD
  - 3 Shape
  - Exocad
  - Dental Wing
- Post Height can be checked by the number of Groove.
  - Post Height : 4.5mm → Groove : 2ea
  - Post Height : 5mm → Groove : 3ea
  - Post Height : 6mm → Groove : 4ea
  - Post Height : 8mm → Groove : 6ea
- Recommend torque : 35Ncm

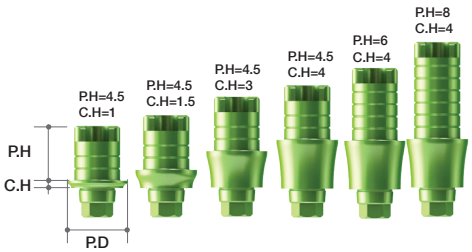


Standard

System	Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
AnyRidge	Ø4.0	0.6	4.5	Hex	AANIPR4015.MTN
			6		AANIPR4016.MTN
			8		AANIPR4018.MTN
		1.5	4.5		AANIPR4025.MTN
			6		AANIPR4026.MTN
			8		AANIPR4028.MTN
		3.0	4.5		AANIPR4035.MTN
			6		AANIPR4036.MTN
			8		AANIPR4038.MTN
		4.0	4.5		AANIPR4045.MTN
			6		AANIPR4046.MTN
			8		AANIPR4048.MTN
		0.6	4.5	Non-Hex	AANIPR4015N.MTN
			6		AANIPR4016N.MTN
			8		AANIPR4018N.MTN
		1.5	4.5		AANIPR4025N.MTN
			6		AANIPR4026N.MTN
			8		AANIPR4028N.MTN
		3.0	4.5		AANIPR4035N.MTN
			6		AANIPR4036N.MTN
			8		AANIPR4038N.MTN
		4.0	4.5		AANIPR4045N.MTN
			6		AANIPR4046N.MTN
			8		AANIPR4048N.MTN
	Ø4.5	0.6	4.5	Hex	AANIPR4515.MTN
			6		AANIPR4516.MTN
			8		AANIPR4518.MTN
		1.5	4.5		AANIPR4525.MTN
			6		AANIPR4526.MTN
			8		AANIPR4528.MTN
		3.0	4.5		AANIPR4535.MTN
			6		AANIPR4536.MTN
			8		AANIPR4538.MTN
		4.0	4.5		AANIPR4545.MTN
			6		AANIPR4546.MTN
			8		AANIPR4548.MTN

System		Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
AnyRidge		Ø4.5	0.6	4.5	Non-Hex	AANIPR4515N.MTN
				6		AANIPR4516N.MTN
				8		AANIPR4518N.MTN
			1.5	4.5		AANIPR4525N.MTN
				6		AANIPR4526N.MTN
				8		AANIPR4528N.MTN
			3.0	4.5		AANIPR4535N.MTN
				6		AANIPR4536N.MTN
				8		AANIPR4538N.MTN
			4.0	4.5		AANIPR4545N.MTN
				6		AANIPR4546N.MTN
				8		AANIPR4548N.MTN
Octa Level	Small	Ø5.0	0.8	5	Octa	AOCEPS5015.MTN
				6		AOCEPS5016.MTN
				8		AOCEPS5018.MTN
			0.8	5	Non-Octa	ANOEPS5015.MTN
				6		ANOEPS5016.MTN
				8		ANOEPS5018.MTN
	Regular	Ø5.5	0.8	5	Octa	AOCEPR5515.MTN
				6		AOCEPR5516.MTN
				8		AOCEPR5518.MTN
			0.8	5	Non-Octa	ANOEPR5515.MTN
				6		ANOEPR5516.MTN
				8		ANOEPR5518.MTN
	Wide	Ø6.5	0.8	5	Octa	AOCEPW6515.MTN
				6		AOCEPW6516.MTN
				8		AOCEPW6518.MTN
			0.8	5	Non-Octa	ANOEPW6515.MTN
				6		ANOEPW6516.MTN
				8		ANOEPW6518.MTN
MUA Level		Ø5.5	0.8	5	N Type	AMUAPR5515N.MTN
				6		AMUAPR5516N.MTN
				8		AMUAPR5518N.MTN

➲ ZrGEN Abutment Option



Extra

System	Fixture Core Diameter	Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
AnyRidge	Ø3.3	Ø4.5	0.6	4.5	Hex	ARZXN4515.MTN
				6		ARZXN4516.MTN
				8		ARZXN4518.MTN
			1.5	4.5		ARZXN4525.MTN
				6		ARZXN4526 .MTN
				8		ARZXN4528 .MTN
			3.0	4.5		ARZXN4535.MTN
				6		ARZXN4536.MTN
				8		ARZXN4538.MTN
			4.0	4.5		ARZXN4545.MTN
				6		ARZXN4546 .MTN
				8		ARZXN4548 .MTN
			0.6	4.5	Non-Hex	ARZXN4515N.MTN
				6		ARZXN4516N.MTN
				8		ARZXN4518N.MTN
			1.5	4.5		ARZXN4525N.MTN
				6		ARZXN4526N.MTN
				8		ARZXN4528N.MTN
			3.0	4.5		ARZXN4535N.MTN
				6		ARZXN4536N.MTN
				8		ARZXN4538N.MTN
			4.0	4.5		ARZXN4545N.MTN
				6		ARZXN4546N.MTN
				8		ARZXN4548N.MTN
	Ø3.8	Ø5.0	0.6	4.5	Hex	ARZXM503815.MTN
				6		ARZXM503816.MTN
				8		ARZXM503818.MTN
			1.5	4.5		ARZXM503825.MTN
				6		ARZXM503826.MTN
				8		ARZXM503828.MTN
			3.0	4.5		ARZXM503835.MTN
				6		ARZXM503836.MTN
				8		ARZXM503838.MTN
			4.0	4.5		ARZXM503845.MTN
				6		ARZXM503846.MTN
				8		ARZXM503848.MTN
			0.6	4.5	Non-Hex	ARZXM503815N.MTN
				6		ARZXM503816N.MTN
				8		ARZXM503818N.MTN
			1.5	4.5		ARZXM503825N.MTN
				6		ARZXM503826N.MTN
				8		ARZXM503828N.MTN
			3.0	4.5		ARZXM503835N.MTN
				6		ARZXM503836N.MTN
				8		ARZXM503838N.MTN
			4.0	4.5		ARZXM503845N.MTN
				6		ARZXM503846N.MTN
				8		ARZXM503848N.MTN
		Ø5.5	0.6	4.5	Hex	ARZXM553815.MTN
				6		ARZXM553816.MTN
				8		ARZXM553818.MTN
			1.5	4.5		ARZXM553825.MTN
				6		ARZXM553826.MTN
				8		ARZXM553828.MTN
			3.0	4.5		ARZXM553835.MTN
				6		ARZXM553836.MTN
				8		ARZXM553838.MTN
			4.0	4.5		ARZXM553845.MTN
				6		ARZXM553846.MTN
				8		ARZXM553848.MTN
			0.6	4.5	Non-Hex	ARZXM553815N.MTN
				6		ARZXM553816N.MTN
				8		ARZXM553818N.MTN
			1.5	4.5		ARZXM553825N.MTN
				6		ARZXM553826N.MTN
				8		ARZXM553828N.MTN
			3.0	4.5		ARZXM553835N.MTN
				6		ARZXM553836N.MTN
				8		ARZXM553838N.MTN
			4.0	4.5		ARZXM553845N.MTN
				6		ARZXM553846N.MTN
				8		ARZXM553848N.MTN

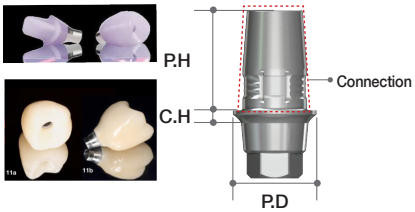
Extra

System	Fixture Core Diameter	Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
AnyRidge	Ø4.0	Ø5.0	0.6	4.5	Hex	ARZXM5015.MTN
				6		ARZXM5016.MTN
				8		ARZXM5018.MTN
			1.5	4.5		ARZXM5025.MTN
				6		ARZXM5026.MTN
				8		ARZXM5028.MTN
			3.0	4.5		ARZXM5035.MTN
				6		ARZXM5036.MTN
				8		ARZXM5038.MTN
			4.0	4.5		ARZXM5045.MTN
				6		ARZXM5046.MTN
				8		ARZXM5048.MTN
			0.6	4.5	Non-Hex	ARZXM5015N.MTN
				6		ARZXM5016N.MTN
				8		ARZXM5018N.MTN
			1.5	4.5		ARZXM5025N.MTN
				6		ARZXM5026N.MTN
				8		ARZXM5028N.MTN
			3.0	4.5		ARZXM5035N.MTN
				6		ARZXM5036N.MTN
				8		ARZXM5038N.MTN
			4.0	4.5		ARZXM5045N.MTN
				6		ARZXM5046N.MTN
				8		ARZXM5048N.MTN
		Ø5.5	0.6	4.5	Hex	ARZXM5515.MTN
				6		ARZXM5516.MTN
				8		ARZXM5518.MTN
			1.5	4.5		ARZXM5525.MTN
				6		ARZXM5526.MTN
				8		ARZXM5528.MTN
			3.0	4.5		ARZXM5535.MTN
				6		ARZXM5536.MTN
				8		ARZXM5538.MTN
			4.0	4.5		ARZXM5545.MTN
				6		ARZXM5546.MTN
				8		ARZXM5548.MTN
			0.6	4.5	Non-Hex	ARZXM5515N.MTN
				6		ARZXM5516N.MTN
				8		ARZXM5518N.MTN
			1.5	4.5		ARZXM5525N.MTN
				6		ARZXM5526N.MTN
				8		ARZXM5528N.MTN
			3.0	4.5		ARZXM5535N.MTN
				6		ARZXM5536N.MTN
				8		ARZXM5538N.MTN
			4.0	4.5		ARZXM5545N.MTN
				6		ARZXM5546N.MTN
				8		ARZXM5548N.MTN

System	Fixture Core Diameter	Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
AnyRidge	Ø4.8	Ø5.5	0.6	4.5	Hex	ARZXL5515.MTN
				6		ARZXL5516 .MTN
				8		ARZXL5518 .MTN
			1.5	4.5		ARZXL5525.MTN
				6		ARZXL5526 .MTN
				8		ARZXL5528 .MTN
			3.0	4.5		ARZXL5535.MTN
				6		ARZXL5536 .MTN
				8		ARZXL5538 .MTN
			4.0	4.5		ARZXL5545.MTN
				6		ARZXL5546 .MTN
				8		ARZXL5548 .MTN
			0.6	4.5	Non-Hex	ARZXL5515N.MTN
				6		ARZXL5516N.MTN
				8		ARZXL5518N.MTN
			1.5	4.5		ARZXL5525N.MTN
				6		ARZXL5526N.MTN
				8		ARZXL5528N.MTN
			3.0	4.5		ARZXL5535N.MTN
				6		ARZXL5536N.MTN
				8		ARZXL5538N.MTN
			4.0	4.5		ARZXL5545N.MTN
				6		ARZXL5546N.MTN
				8		ARZXL5548N.MTN
		Ø6.0	0.6	4.5	Hex	ARZXL6015.MTN
				6		ARZXL6016.MTN
				8		ARZXL6018.MTN
			1.5	4.5		ARZXL6025.MTN
				6		ARZXL6026.MTN
				8		ARZXL6028.MTN
			3.0	4.5		ARZXL6035.MTN
				6		ARZXL6036.MTN
				8		ARZXL6038.MTN
			4.0	4.5		ARZXL6045.MTN
				6		ARZXL6046.MTN
				8		ARZXL6048.MTN
			0.6	4.5	Non-Hex	ARZXL6015N.MTN
				6		ARZXL6016N.MTN
				8		ARZXL6018N.MTN
			1.5	4.5		ARZXL6025N.MTN
				6		ARZXL6026N.MTN
				8		ARZXL6028N.MTN
			3.0	4.5		ARZXL6035N.MTN
				6		ARZXL6036N.MTN
				8		ARZXL6038N.MTN
			4.0	4.5		ARZXL6045N.MTN
				6		ARZXL6046N.MTN
				8		ARZXL6048N.MTN

- Abutment Screw included.
  ✓ AnyRidge (AANMSF)

- Titanium base for CEREC users.
- In in Lab CAD Software, compatible with Xive Library.
- 1 set consists of 10 Abutments.
  - included spare Abutment Screw.
- Recommend torque : 35Ncm



C-type

System	Profile Diameter	Cuff Height (mm)	Post Height	Connection	Ref.C
AnyRidge	Ø3.9	0.5	4.7	S	ARCS3405.MTN
		1			ARCS3410.MTN
		2			ARCS3420.MTN
	Ø4.3	0.5			ARCS3805.MTN
		1			ARCS3810.MTN
		2			ARCS3820.MTN
	Ø5.5	0.5		L	ARCL4505.MTN
		1			ARCL4510.MTN
		2			ARCL4520.MTN

TiGEN Abutment Option (Continued)

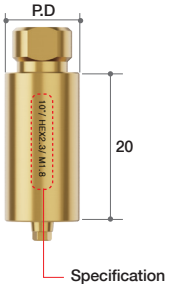
TiGEN Abutment

- Abutment Screw included.
  ✓ AnyRidge (AANMSF)
  ✓ Octa Level (IRCS200)

- Pre-milled Abutment
- 1 set consists of 10 Abutments.
  - included spare Abutment Screw
- Supporting DentalCAD
  - 3 Shape
  - exocad
  - Dental Wings
- Supporting Milling Machine
  - MegaGen Implant : BX5
  - ARUM DENTISTRY
- Recommend torque : 35Ncm

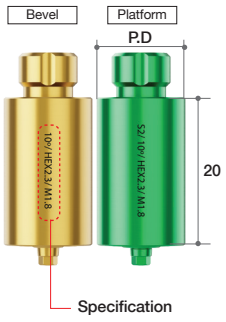
Standard/ MegaGen type

System		Color	Profile Diameter	Height (mm)	Type	Ref.C
AnyRidge		Gold	Ø10	20	Hex	ARTR1020.MTN
					Non-Hex	ARTR1020N.MTN
			Ø12		Hex	ARTR1220.MTN
					Non-Hex	ARTR1220N.MTN
Octa Level	Small	Silver	Ø10		Octa	OCTS1020.MTN
					Non-Octa	NOTS1020.MTN
			Ø12		Octa	OCTS1220.MTN
					Non-Octa	NOTS1220.MTN
	Regular		Ø10		Octa	OCTR1020.MTN
					Non-Octa	NOTR1020.MTN
			Ø12		Octa	OCTR1220.MTN
					Non-Octa	NOTR1220.MTN
	Wide		Ø10		Octa	OCTW1020.MTN
					Non-Octa	NOTW1020.MTN
			Ø12		Octa	OCTW1220.MTN
					Non-Octa	NOTW1220.MTN



Extra/ MegaGen type

System	Connection (Color)	Fixture Core Diameter	Profile Diameter	Height (mm)	Type	Ref.C
AnyRidge	Bevel (Gold)	Ø3.3	Ø10	20	Hex	ARTXN1020.MTN
					Non-Hex	ARTXN1020N.MTN
			Ø12		Hex	ARTXN1220.MTN
					Non-Hex	ARTXN1220N.MTN
	Platform (Light green)	Ø4.0	Ø10		Hex	ARTXM1020.MTN
					Non-Hex	ARTXM1020N.MTN
			Ø12		Hex	ARTXM1220.MTN
					Non-Hex	ARTXM1220N.MTN
		Ø4.8	Ø10		Hex	ARTXL1020.MTN
					Non-Hex	ARTXL1020N.MTN
			Ø12		Hex	ARTXL1220.MTN
					Non-Hex	ARTXL1220N.MTN



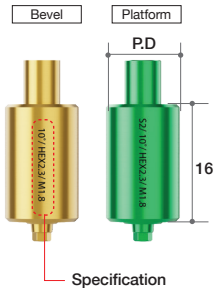
- Abutment Screw included.
  ✓ AnyRidge (AANMSF)
  ✓ Octa Level (IRCS200)
- Pre-milled Abutment
- 1 set consists of 10 Abutments
  - included spare Abutment Screw
- Supporting DentalCAD
  - 3 Shape
  - exocad
- Recommend torque : 35Ncm
- FDA : Approved in 2024

Standard/ NT type

System		Color	Profile Diameter	Height (mm)	Type	Ref.C
AnyRidge		Gold	Ø10	16	Hex	ARTRN1016.MTN
					Non-Hex	ARTRN1016N.MTN
			Ø12		Hex	ARTRN1216.MTN
					Non-Hex	ARTRN1216N.MTN
Octa Level	Small	Silver	Ø10		Octa	OCTSN1016.MTN
					Non-Octa	NOTSN1016.MTN
			Ø12		Octa	OCTSN1216.MTN
					Non-Octa	NOTSN1216.MTN
	Regular		Ø10		Octa	OCTRN1016.MTN
					Non-Octa	NOTRN1016.MTN
			Ø12		Octa	OCTRN1216.MTN
					Non-Octa	NOTRN1216.MTN
	Wide		Ø10		Octa	OCTWN1016.MTN
					Non-Octa	NOTWN1016.MTN
			Ø12		Octa	OCTWN1216.MTN
					Non-Octa	NOTWN1216.MTN

Extra/ NT type

System	Connection (Color)	Fixture Core Diameter	Profile Diameter	Height (mm)	Type	Ref.C
AnyRidge	Bevel (Gold)	Ø3.3	Ø10	16	Hex	ARTXNN1016.MTN
					Non-Hex	ARTXNN1016N.MTN
			Ø12		Hex	ARTXNN1216.MTN
					Non-Hex	ARTXNN1216N.MTN
	Platform (Light green)	Ø4.0	Ø10		Hex	ARTXMN1016.MTN
					Non-Hex	ARTXMN1016N.MTN
			Ø12		Hex	ARTXMN1216.MTN
					Non-Hex	ARTXMN1216N.MTN
		Ø4.8	Ø10		Hex	ARTXLN1016.MTN
					Non-Hex	ARTXLN1016N.MTN
			Ø12		Hex	ARTXLN1216.MTN
					Non-Hex	ARTXLN1216N.MTN



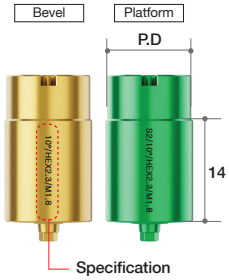
- Abutment Screw included.
  ✓ AnyRidge (AANMSF)
  ✓ Octa Level (IRCS200)
- Pre-milled Abutment
- 1 set consists of 10 Abutments
  - included spare Abutment Screw
- Supporting DentalCAD
  - 3 Shape
  - exocad
- Recommend torque : 35Ncm
- FDA : Approved in 2024

Standard/ Medentika type

System		Color	Profile Diameter	Height (mm)	Type	Ref.C
AnyRidge		Gold	Ø12	14	Hex	ARTRM1214.MTN
					Non-Hex	ARTRM1214N.MTN
Octa Level	Small	Silver			Octa	OCTSM1214.MTN
					Non-Octa	NOTSM1214.MTN
	Regular				Octa	OCTRM1214.MTN
					Non-Octa	NOTRM1214.MTN
	Wide				Octa	OCTWM1214.MTN
					Non-Octa	NOTWM1214.MTN

Extra/ Medentika type

System	Connection (Color)	Fixture Core Diameter	Profile Diameter	Height (mm)	Type	Ref.C
AnyRidge	Bevel (Gold)	Ø3.3	Ø12	14	Hex	ARTXNM1214.MTN
					Non-Hex	ARTXNM1214N.MTN
	Platform (Light green)	Ø4.0			Hex	ARTXMM1214.MTN
					Non-Hex	ARTXMM1214N.MTN
		Ø4.8			Hex	ARTXLM1214.MTN
					Non-Hex	ARTXLM1214N.MTN



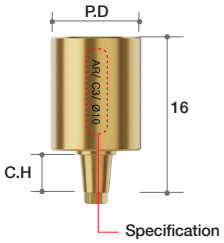
TiGEN Abutment Option

- Abutment Screw included.
  ✓ AnyRidge (AANMSF)

- Pre-milled Abutment
  - Pre-milled part : Implant Connection + Cuff (0.6/ 1.5/ 3.0mm)
- 1 set consists of 10 Abutments
  - included spare Abutment Screw
- Used by fastening it to a reverse jig
- Supporting Dental CAD
  - 3 Shape
  - exocad
- Supporting Milling Machine
  - MegaGen Implant : BX5
  - ARUM DENTISTRY
- Recommend torque : 35Ncm
- FDA : Approved in 2024

CUFF type

System	Color	Profile Diameter	Cuff Height (mm)	Height (mm)	Type	Ref.C
AnyRidge	Gold	Ø8	0.6	16	Hex	ARTRR0608.MTN
			1.5			ARTRR1508.MTN
			3.0			ARTRR3008.MTN
		Ø10	0.6			ARTRR0610.MTN
			1.5			ARTRR1510.MTN
			3.0			ARTRR3010.MTN
		Ø12	0.6			ARTRR0612.MTN
			1.5			ARTRR1512.MTN
			3.0			ARTRR3012.MTN

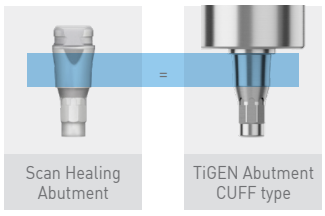


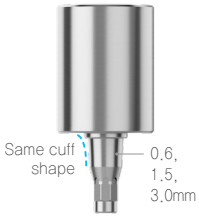
[TiGEN Abutment CUFF type Line-Up]

	D8	D10	D12
C0.6			
C1.5			
C3.0			

➢ **CUFF types of TiGEN Abutment have same form of cuff shape as the Scan Healing Abutment thus custom abutment with perfectly fit to emergence profile can be fabricated**

· Various cuff sizes for every gingiva height

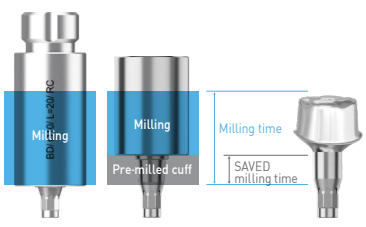




➢ **Pre-milled cuff reduces milling time + precision is increased with reverse jig milling**

· 60% reduction in milling time when compared with conventional products!

· NO post milling, allowing reverse jig milling to occlusal surface within 8 minutes!



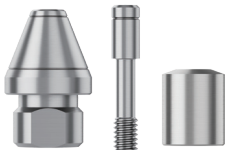
Reverse Jig Connector Option

Reverse Jig Connector

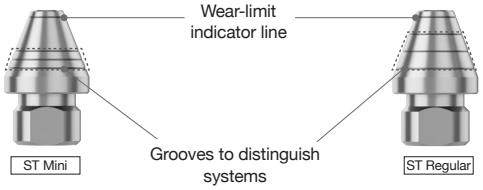
- Milling screws exclusively for Reverse Jig Connector are included
  ✓ AnyRidge (ARRJMS)

- Do not use Non-Engage(Hex/ Octa)
- System can be checked by the number of Groove
  - AnyRidge → Groove 1ea
- Available milling machines
  - MegaGen Implant : BX5
  - ARUM DENTISTRY
- Recommended Torque
  - 35Ncm
  - Dedicated Driver (DP-RV-TORQ-DRV) (option)
- When Connected counterpart to Reverse Jig use Allen Wrench
  - Allen Key Size : 2.5mm
  - Dedicated Wrench (DP-HEX-TWLENCH) (option)

System	Type	Ref.C
AnyRidge	Hex	ARTGRJ00P



***An example of grooves for different systems**

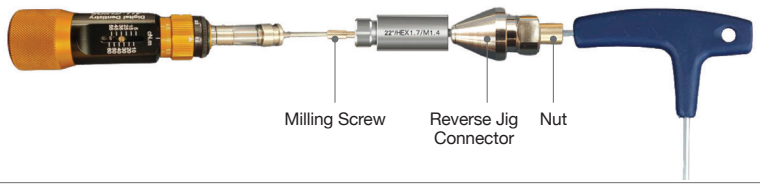


***Reverse Jig Connector assembly Option**

DP-RV-TORQ-DRV

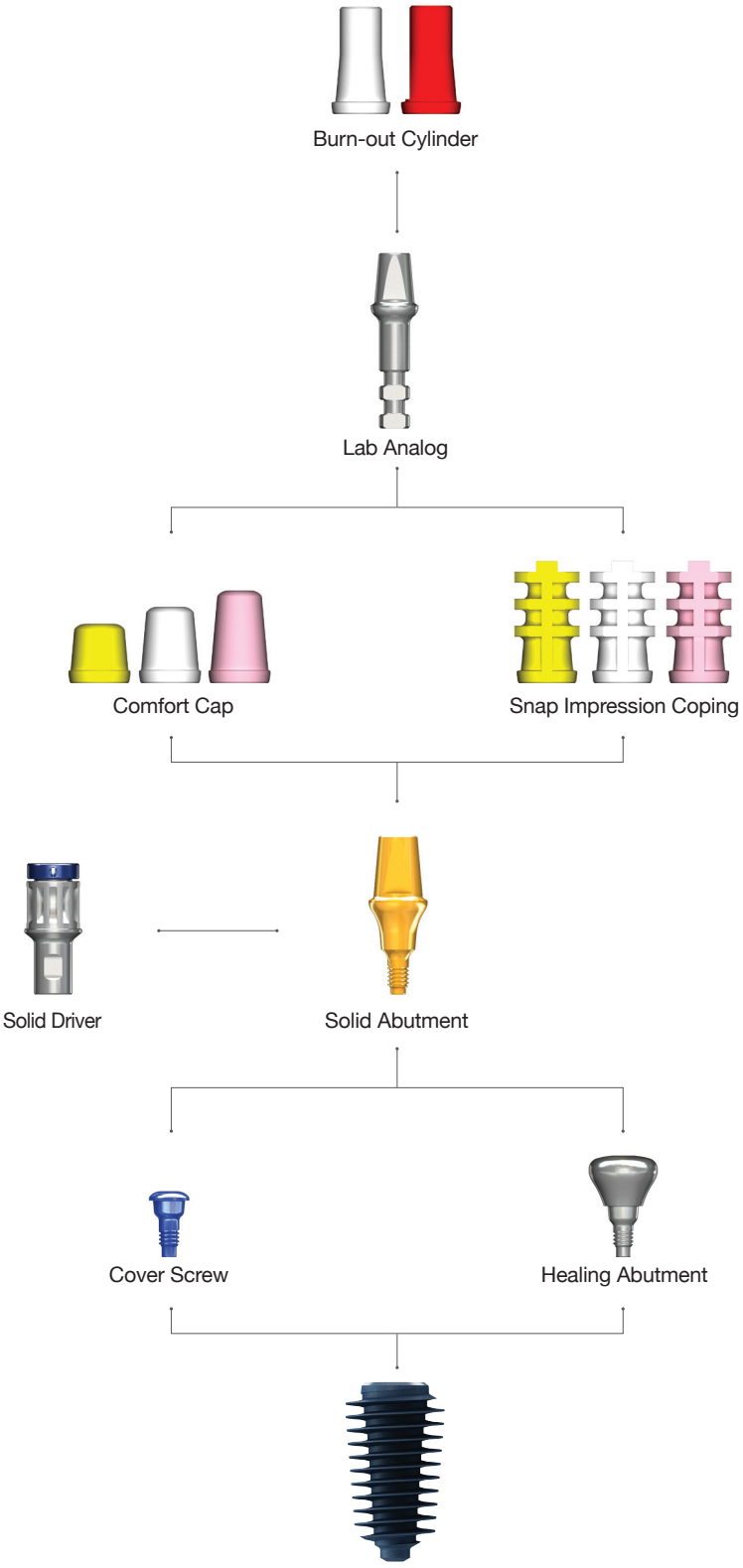
DP-HEX-TWLENCH

※ How to use Reverse Jig Connector with tool



II. Abutment Level Prosthesis

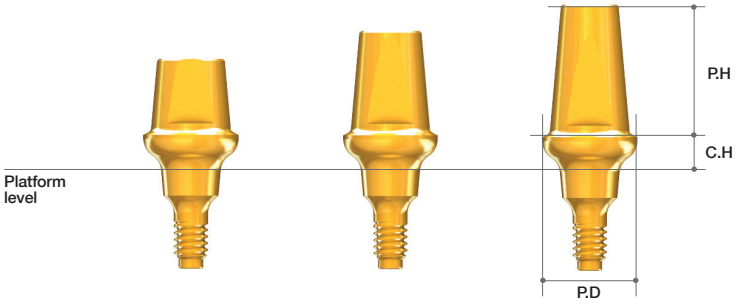
1. Solid Abutment & Components



➲ Solid Abutment Option

Solid Abutment

- Used in cement retained restoration only.
- Solid Abutment should be placed into patient's mouth before taking impression.
- Onebody (screw + abutment)
- Should be tightened with a Solid Driver and a Torque Wrench : 35Ncm
- Four different profile diameters. (Ø4.0/5.0/6.0/7.0)
  - Should be tightened with special Solid Driver.
  - Wider profile has bigger post angulation.
  (4mm - 8°, 5mm - 10°, 6mm - 12°, 7mm - 14°)
- Four different cuff heights. (2/3/4/5mm)
- Three different post heights. (4/5.5/7mm)
- Recommend torque : 35Ncm



Profile Diameter	Cuff Height(mm)	Post Height(mm)	Ref.C
Ø4.0	2	4	AANSAL4024
	3		AANSAL4034
	4		AANSAL4044
	5		AANSAL4054
	2	5.5	AANSAL4025
	3		AANSAL4035
	4		AANSAL4045
	5		AANSAL4055
	2	7	AANSAL4027
	3		AANSAL4037
	4		AANSAL4047
	5		AANSAL4057
Ø5.0	2	4	AANSAL5024
	3		AANSAL5034
	4		AANSAL5044
	5		AANSAL5054
	2	5.5	AANSAL5025
	3		AANSAL5035
	4		AANSAL5045
	5		AANSAL5055
	2	7	AANSAL5027
	3		AANSAL5037
	4		AANSAL5047
	5		AANSAL5057

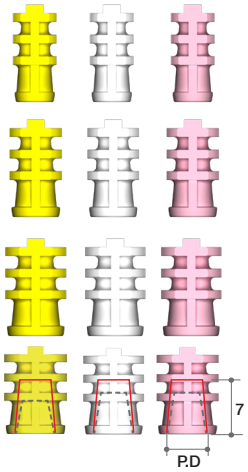
Profile Diameter	Cuff Height(mm)	Post Height(mm)	Ref.C
Ø6.0	2	4	AANSAL6024
	3		AANSAL6034
	4		AANSAL6044
	5		AANSAL6054
	2	5.5	AANSAL6025
	3		AANSAL6035
	4		AANSAL6045
	5		AANSAL6055
	2	7	AANSAL6027
	3		AANSAL6037
	4		AANSAL6047
	5		AANSAL6057
Ø7.0	2	4	AANSAL7024
	3		AANSAL7034
	4		AANSAL7044
	5		AANSAL7054
	2	5.5	AANSAL7025
	3		AANSAL7035
	4		AANSAL7045
	5		AANSAL7055
	2	7	AANSAL7027
	3		AANSAL7037
	4		AANSAL7047
	5		AANSAL7057

➲ Components for Solid Abutment

Snap Impression Coping

- For impression on Solid Abutments.
- 3 colors for different post heights.
- 4 different diameters for profile diameters. (Ø4, 5, 6, 7)
- Do not use when abutment is trimmed.

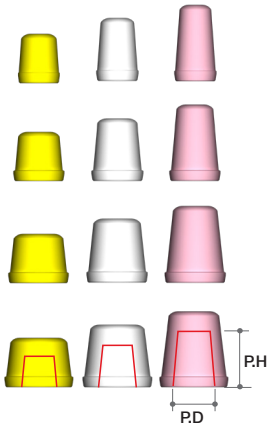
Profile Diameter	Ref.C
Ø4.0	AANSIF440
	AANSIF455
	AANSIF470
Ø5.0	AANSIF540
	AANSIF555
	AANSIF570
Ø6.0	AANSIF640
	AANSIF655
	AANSIF670
Ø7.0	AANSIF740
	AANSIF755
	AANSIF770



Comfort Cap

- Protects the Solid Abutment and minimizes irritation to tongue and oral mucosa.
- Can be applied under temporary prosthetics.
- Color coded according to post heights.

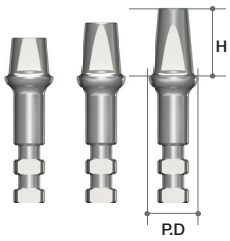
Profile Diameter	Post Height(mm)	Ref.C
Ø4.0	4	AANCCF440
	5.5	AANCCF455
	7	AANCCF470
Ø5.0	4	AANCCF540
	5.5	AANCCF555
	7	AANCCF570
Ø6.0	4	AANCCF640
	5.5	AANCCF655
	7	AANCCF670
Ø7.0	4	AANCCF740
	5.5	AANCCF755
	7	AANCCF770



Lab Analog

- Directly connected to the Snap Impression Coping in the impression to make a stone model.

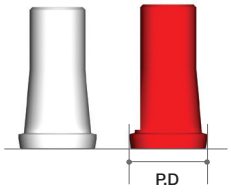
Profile Diameter	Height(mm)	Ref.C
Ø4.0	4	AANSLF440
	5.5	AANSLF455
	7	AANSLF470
Ø5.0	4	AANSLF540
	5.5	AANSLF555
	7	AANSLF570
Ø6.0	4	AANSLF640
	5.5	AANSLF655
	7	AANSLF670
Ø7.0	4	AANSLF740
	5.5	AANSLF755
	7	AANSLF770



Burn-out Cylinder

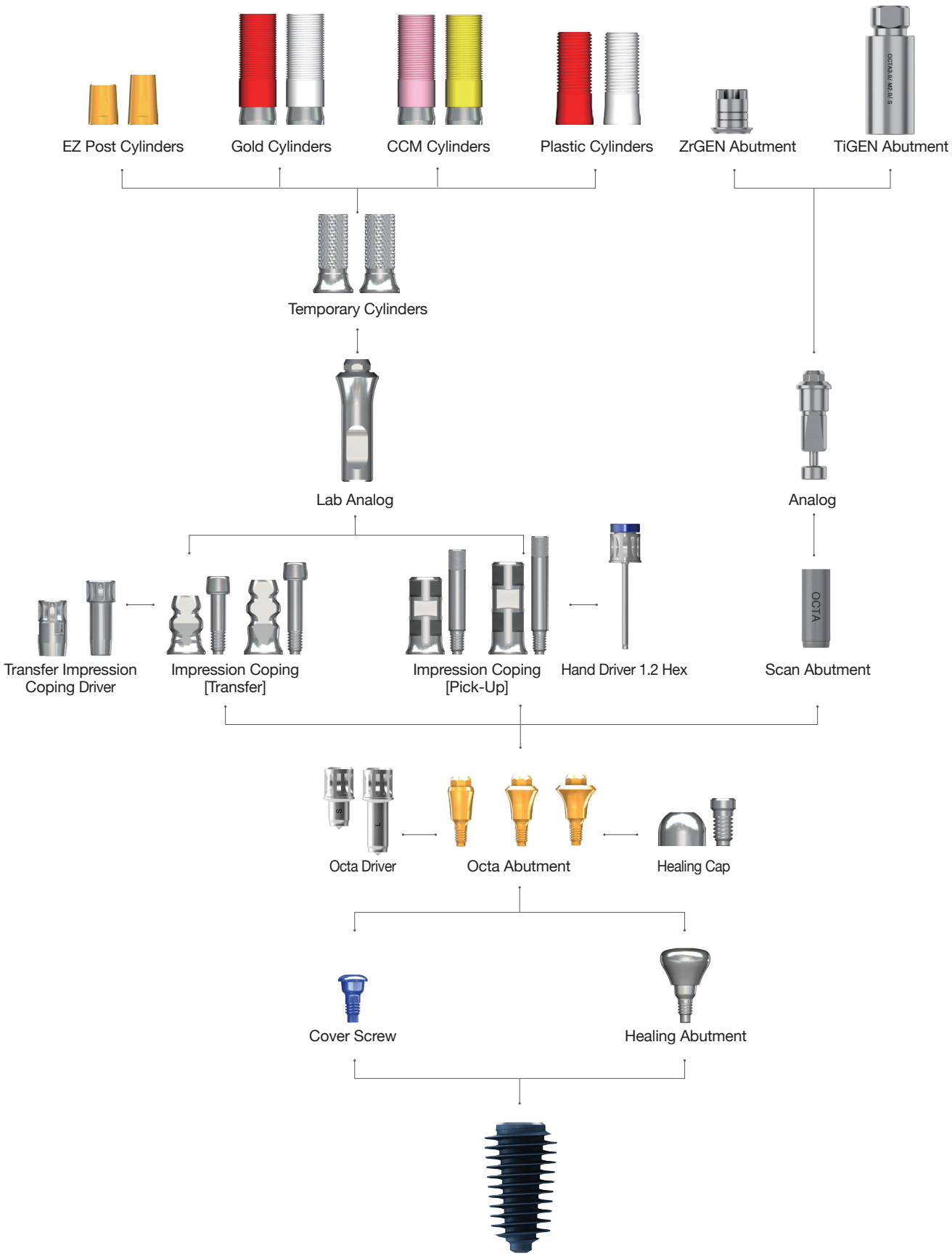
- Fits with a Lab Analog(Solid Abutment).
- Easy to wax-up and accurate casting.
- White Cylinder for multiple unit.
- Red Cylinder for single crown.

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 Prosthesis

2. Octa Abutment & Components

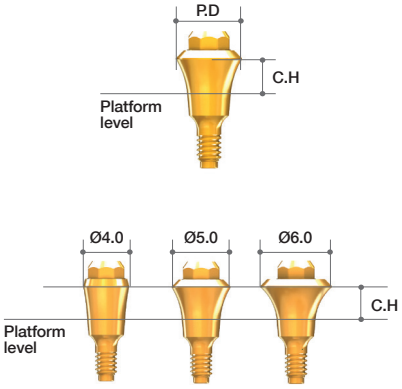


➲ Components for Octa Abutment (Continued)

Octa Abutment

- Used in manufacturing multiple screw-retained prosthetics.
- Recommend torque : 35Ncm

Profile Diameter	Cuff Height (mm)	Ref.C
Ø4.0	1	AANOAF4010
	2	AANOAF4020
	3	AANOAF4030
	4	AANOAF4040
	5	AANOAF4050
Ø4.8	1	AANOAF0010
	2	AANOAF0020
	3	AANOAF0030
	4	AANOAF0040
	5	AANOAF0050
Ø5.8	1	AANOAF6010
	2	AANOAF6020
	3	AANOAF6030
	4	AANOAF6040
	5	AANOAF6050



Healing Cap

- Cylinder Screw(IRCS200) included.

- Protects Octa Abutment and minimizes irritation to tongue and oral mucosa.

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

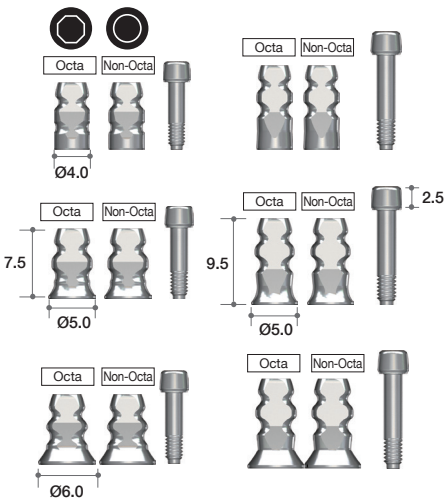
Impression Coping

(Transfer)

- Guide Pin(AAOTGP10 / AAOTGP12) included.

- Should be tightened with Impression Coping Driver

Profile Diameter	Height (mm)	Type	Ref.C
Ø4.0	7.5	Octa	AAOITO4010T
		Non-Octa	AAOITN4010T
	9.5	Octa	AAOITO4012T
		Non-Octa	AAOITN4012T
Ø5.0	7.5	Octa	AAOITO5010T
		Non-Octa	AAOITN5010T
	9.5	Octa	AAOITO5012T
		Non-Octa	AAOITN5012T
Ø6.0	7.5	Octa	AAOITO6010T
		Non-Octa	AAOITN6010T
	9.5	Octa	AAOITO6012T
		Non-Octa	AAOITN6012T

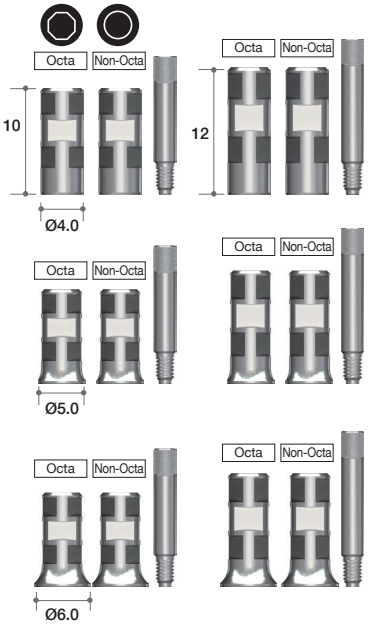


Impression Coping

(Pick-Up)

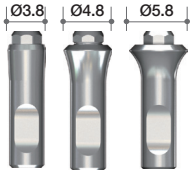
- Guide Pin(AAOPGP10 / AAOPGP12) included.

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 Analog

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

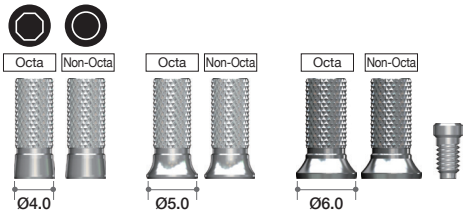


Temporary Cylinder

- Cylinder Screw(IRCS200) included.

• Recommend 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

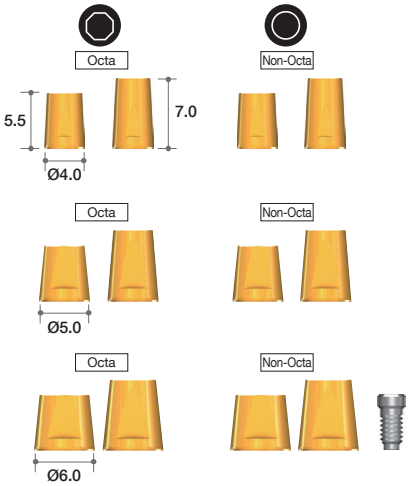


EZ Post Cylinder

- Cylinder Screw(IRCS200) included.

• Recommend 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



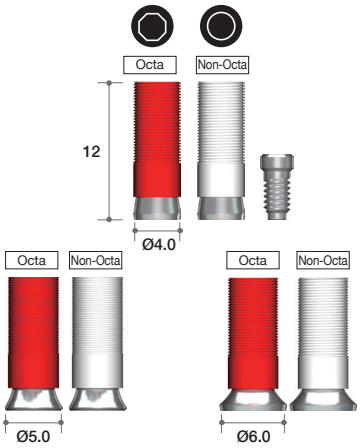
➲ Components for Octa Abutment

Gold Cylinder

- Cylinder Screw(IRCS200) included.

- For customizing abutment for screw retained multi-unit restoration.
- Available in both octa(red) and 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).
- Recommend torque : 30Ncm

Profile Diameter	Type	Ref.C
Ø4.0	Octa	AANGCO4000T
	Non-Octa	AANGCN4000T
Ø5.0	Octa	IOGO100T
	Non-Octa	IOGN100T
Ø6.0	Octa	AANGCO6000T
	Non-Octa	AANGCN6000T

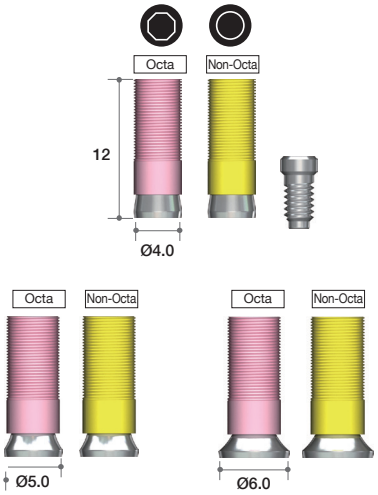


CCM Cylinder

- Cylinder Screw(IRCS200) included.

- Threaded sleeves allow a better retention of resin or wax.
- Available in both octa (pink) and non-octa (yellow) and three diameters (Ø4.0, 5.0, 6.0).
- Recommend torque : 30Ncm
- Melting temperature of CCM : 1300~1400°C
- Can be casted with 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

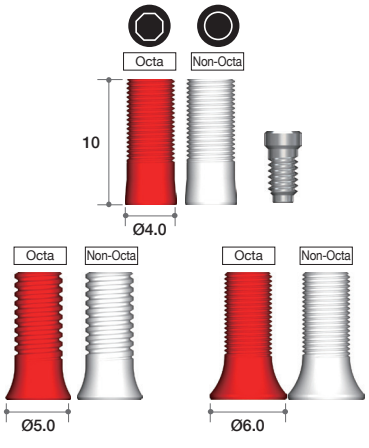


Plastic Cylinder

- Cylinder Screw(IRCS200) included.

- Economical option.
- Used for customizing abutment a screw retained multi-unit restorations.
- Available in both octa (red) and non-octa (white)
- Threaded sleeves allow a better retention of resin or wax.
- Recommend 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



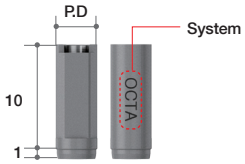
➲ Components for Octa Abutment_Digital (Continued)

Scan Abutments

- Abutment Screw(SAIRCS200) included.

- For Chairside/ Labside
- Surpporting Dental CAD
  - 3Shape / Exocad / Dental Wings
- Recommend torque : By Hand (5~8Ncm)

Profile Diameter	Height (mm)	Ref.C
Ø4.0	11	AOCES4011T

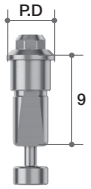


Analog

- Analog Screw(ALS18) included.

- For Chairside/ Labside
- Surpporting Dental CAD
  - 3Shape
  - exocad
- 2 piece type

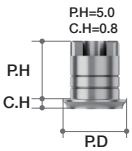
Profile Diameter	Ref.C
Ø3.8	OCTAALST
Ø4.8	OCTAALRT
Ø5.8	OCTAALWT



ZrGEN Abutments

- Abutment Screw(IRCS200) included.

- Titanium Base
- 1 set consists of 10 Abutments.
  - included spare Abutment Screw
- Supporting Dental CAD
  - 3Shape
  - Exocad
  - Dental Wing
- Post Height can be checked by the number of Groove.
  - Post Height : 5mm → Groove : 2ea
  - Post Height : 6mm → Groove : 4ea
  - Post Height : 8mm → Groove : 6ea
- Recommend torque : 35Ncm



System		Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
Octa Level	Small	Ø5.0	0.8	5	Octa	AOCEPS5015.MTN
				6		AOCEPS5016.MTN
				8		AOCEPS5018.MTN
			0.8	5	Non-Octa	ANOEPS5015.MTN
				6		ANOEPS5016.MTN
				8		ANOEPS5018.MTN
	Regular	Ø5.5	0.8	5	Octa	AOCEPR5515.MTN
				6		AOCEPR5516.MTN
				8		AOCEPR5518.MTN
			0.8	5	Non-Octa	ANOEPR5515.MTN
				6		ANOEPR5516.MTN
				8		ANOEPR5518.MTN
	Wide	Ø6.5	0.8	5	Octa	AOCEPW6515.MTN
				6		AOCEPW6516.MTN
				8		AOCEPW6518.MTN
			0.8	5	Non-Octa	ANOEPW6515.MTN
				6		ANOEPW6516.MTN
				8		ANOEPW6518.MTN

➲ Components for Octa Abutment_Digital

TiGEN Abutments

(MegaGen type)

- Abutment Screw(IRCS200) included.

- Pre-milled Abutment
- 1 set consists of 10 Abutments.
  - included spare Abutment Screw
- Supporting DentalCAD
  - 3Shape / exocad / Dental Wings
- Supporting Milling Machine
  - MegaGen Implant : BX5
  - ARUM DENTISTRY
- Recommend torque : 35Ncm
- FDA : Approved in 2024

System		Color	Profile Diameter	Height (mm)	Type	Ref.C
Octa Level	Small	Silver	Ø10	20	Octa	OCTS1020.MTN
					Non-Octa	NOTS1020.MTN
			Ø12		Octa	OCTS1220.MTN
					Non-Octa	NOTS1220.MTN
	Regular		Ø10		Octa	OCTR1020.MTN
					Non-Octa	NOTR1020.MTN
			Ø12		Octa	OCTR1220.MTN
					Non-Octa	NOTR1220.MTN
	Wide		Ø10		Octa	OCTW1020.MTN
					Non-Octa	NOTW1020.MTN
			Ø12		Octa	OCTW1220.MTN
					Non-Octa	NOTW1220.MTN

(NT type)

- Abutment Screw(IRCS200) included.

- Pre-milled Abutment
- 1 set consists of 10 Abutments
  - included spare Abutment Screw
- Supporting DentalCAD
  - 3Shape / exocad
- Recommend torque : 35Ncm
- FDA : Approved in 2024

System		Color	Profile Diameter	Height (mm)	Type	Ref.C
Octa Level	Small	Silver	Ø10	16	Octa	OCTSN1016.MTN
					Non-Octa	NOTSN1016.MTN
			Ø12		Octa	OCTSN1216.MTN
					Non-Octa	NOTSN1216.MTN
	Regular		Ø10		Octa	OCTRN1016.MTN
					Non-Octa	NOTRN1016.MTN
			Ø12		Octa	OCTRN1216.MTN
					Non-Octa	NOTRN1216.MTN
	Wide		Ø10		Octa	OCTWN1016.MTN
					Non-Octa	NOTWN1016.MTN
			Ø12		Octa	OCTWN1216.MTN
					Non-Octa	NOTWN1216.MTN

(Medentika type)

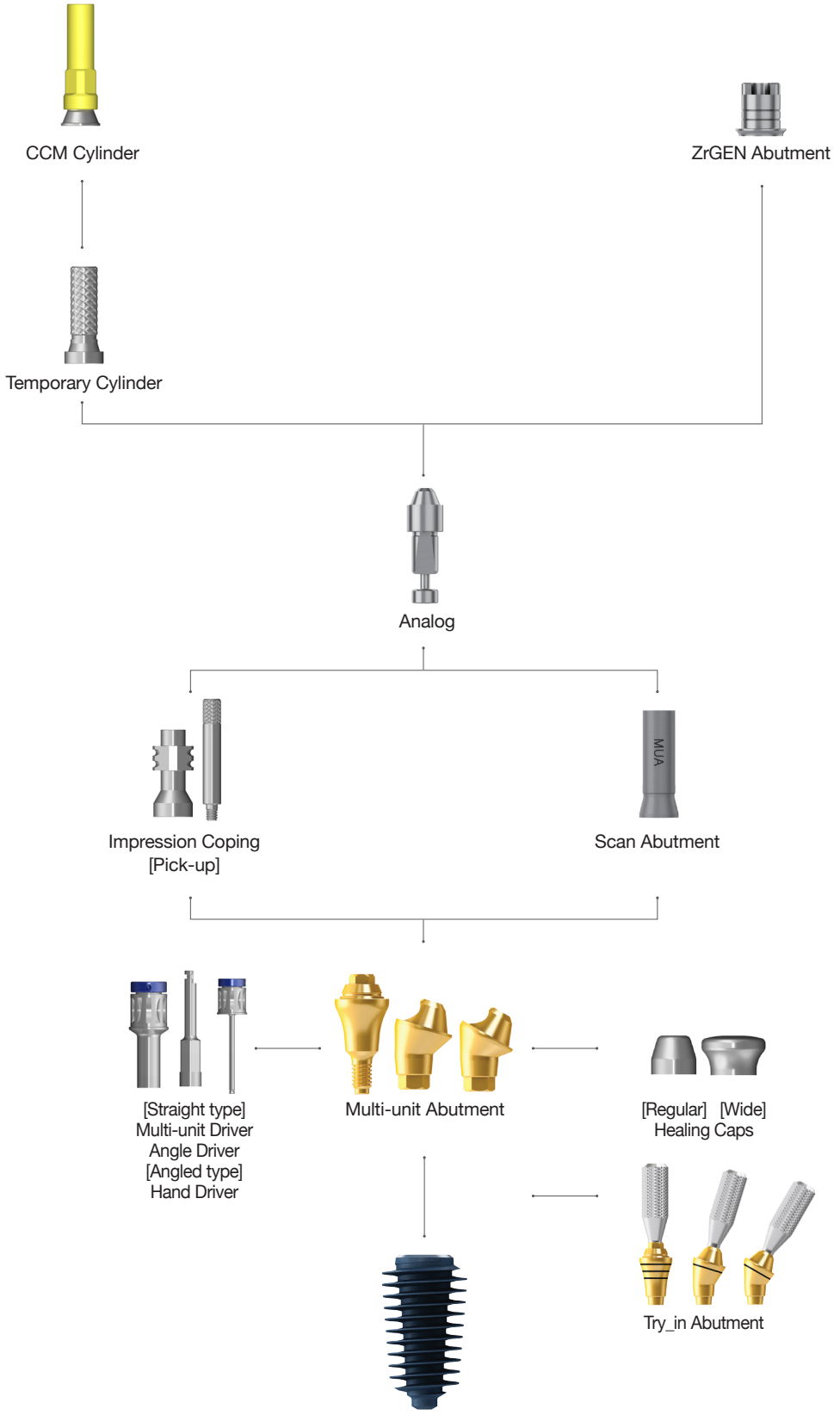
- Abutment Screw(IRCS200) included.

- Pre-milled Abutment
- 1 set consists of 10 Abutments
  - included spare Abutment Screw
- Supporting DentalCAD
  - 3Shape / exocad
- Recommend torque : 35Ncm

System		Color	Profile Diameter	Height (mm)	Type	Ref.C
Octa Level	Small	Silver	Ø12	14	Octa	OCTSM1214.MTN
					Non-Octa	NOTSM1214.MTN
	Regular				Octa	OCTRM1214.MTN
					Non-Octa	NOTRM1214.MTN
	Wide				Octa	OCTWM1214.MTN
					Non-Octa	NOTWM1214.MTN

II. Abutment Level Prosthesis

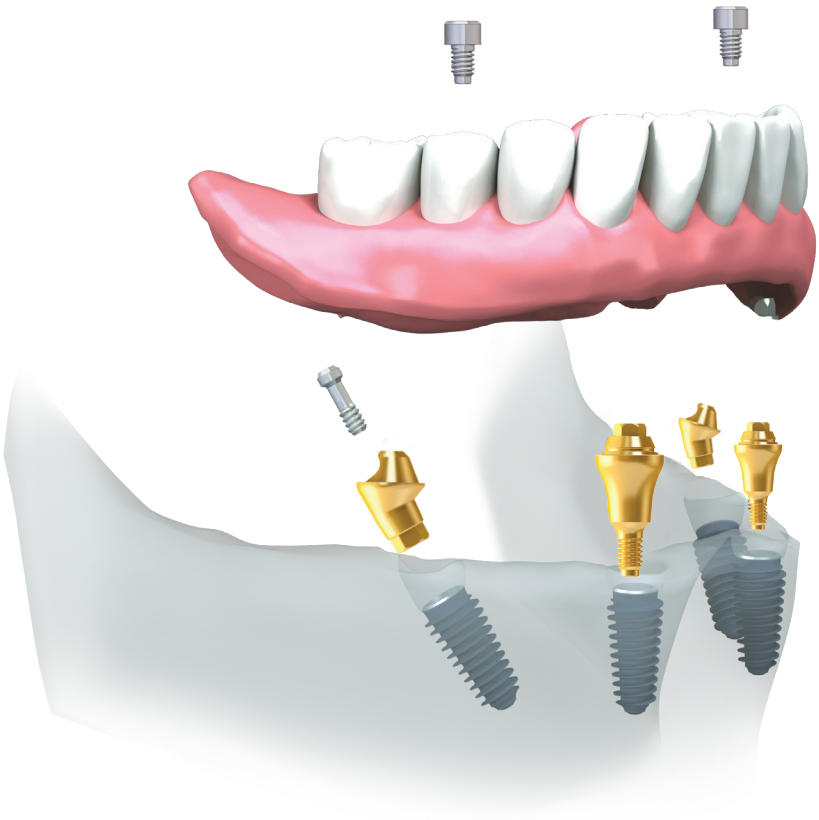
3-1. Multi-unit Abutment & Components
(All-on-4) (N_Type)



▸▸ Multi-unit Abutment™

Multi-unit Abutment Design Concept

MegaGen Implant develops the special abutment named as Multi-unit Abutment, which can be the solution for the edentulous patients. With 4 fixtures placed into patient's ridge and a hybrid denture on those four fixtures, a patient can recover his or her dental condition almost completely. In most cases, Multi-unit Abutments work in a set of 2 x straight type abutment for anterior position and 2 x angled type abutment on posterior position.



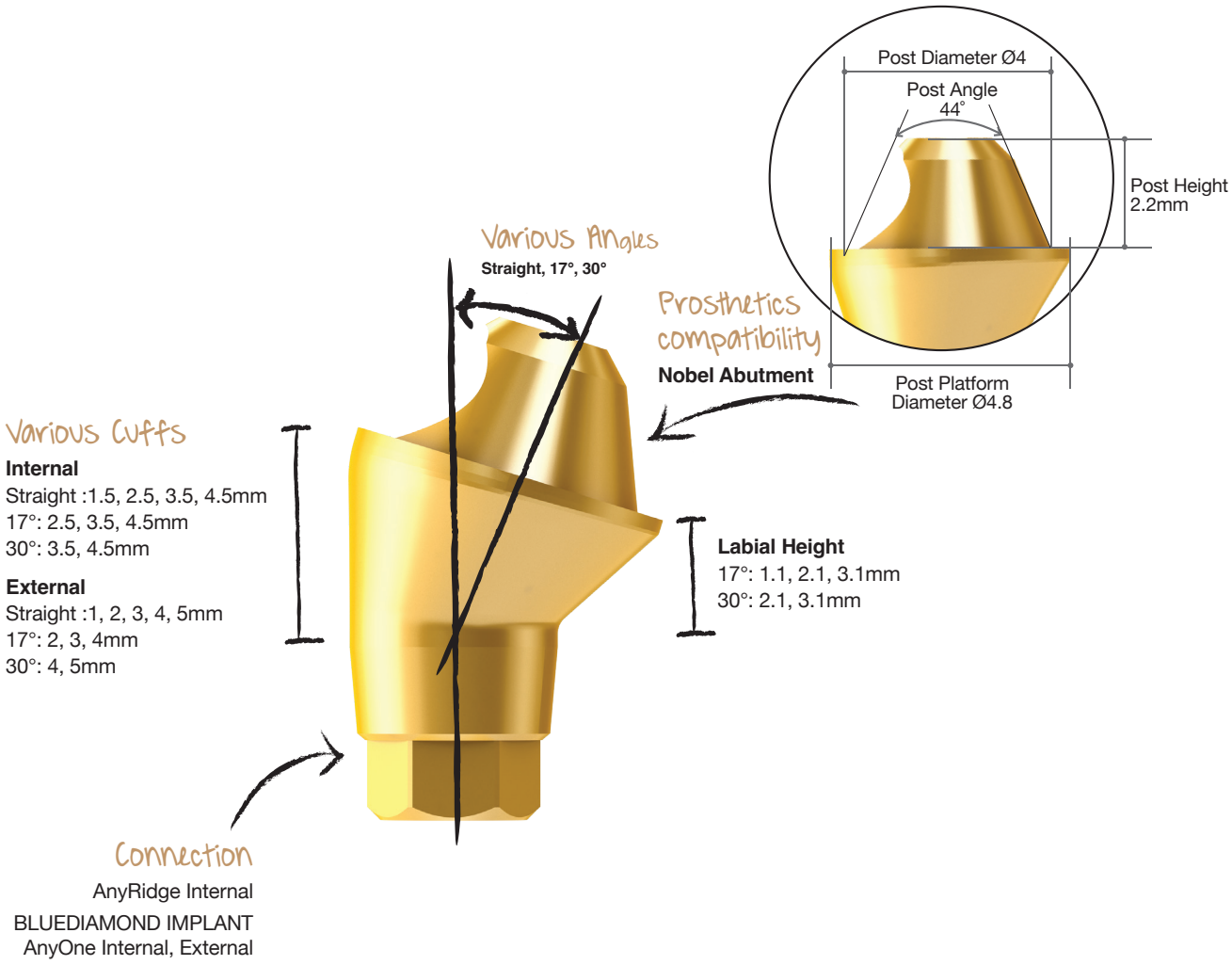
Features

You could see how Multi-unit Abutment functions and what benefits you could get from Multi-unit Abutment are as the followings:

- 2 fixtures which are slantly implanted on posterior position are osseointegrated with cancellous bone. These fixtures function as dispersing vertical load on alveolar bone.
- Multi-unit Abutment is only 4 fixtures + 4 abutments. It means that dental surgeon has enough places for surgery. Therefore, it will be easy to find and place 4 fixtures into ridge where abundant cancellous bone exists.
- A doctor can use graft bone material if a patient dosen't have enough alveolar bone. However, the slantly placed fixtures can overcome the patient's insufficient bone by getting good holding strength with this angulation.
- In addition, these angulated fixtures can avoid touching important anatomies, such as mandibular nerve and maxillary sinus.
- All on 4 technique is also possible to do guided surgery using R2GATE Guide with a diagnosis from R2GATE.

▸▸ Multi-unit Abutment N Type

The solution for the edentulous patients



Benefit

1. Easy and economical treatment solution for compromised edentulous cases.
2. Expensive and time consuming bone graft may not be necessary.
3. Multiple angles (0°, 17°, 30°) support different implant insertion paths.
4. Universally compatible with other Multi-unit systems.

Available implant System

- AnyRidge Internal
- BLUEDIAMOND IMPLANT
- AnyOne Internal
- AnyOne External

Compatibility with others' Multi-unit level prosthetic components

✓ Post Height
✓ Post Diameter
✓ Post Angle
✓ Abutment Angle
✓ Cuff Height

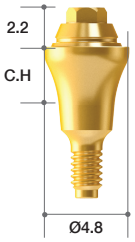
Multi-unit Abutment

Multi-unit Abutment [AR] - Straight

- MUA Straight Carrier (MUASC) included

• Recommend torque : 35Ncm

Cuff Height (mm)	Type	Ref.C
1.5	1-piece (M1.8)	MUAARN0015C
2.5		MUAARN0025C
3.5		MUAARN0035C
4.5		MUAARN0045C

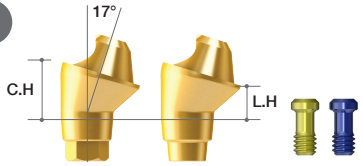


Multi-unit Angled Abutment [AR] - 17°

- MUA Screw (MUAARS) included
- MUA Angled Carrier (MUAAC) included

• Recommend torque : 25Ncm

Cuff Height (Labial) (mm)	Type	Ref.C
2.5 (1.1)	Hex	MUAARH1725LC
3.5 (2.1)		MUAARH1735LC
4.5 (3.1)		MUAARH1745LC
2.5 (1.1)	Non-Hex	MUAARN1725LC
3.5 (2.1)		MUAARN1735LC
4.5 (3.1)		MUAARN1745LC

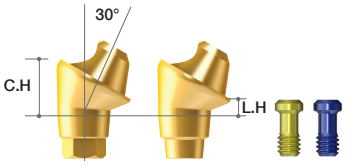


Multi-unit Angled Abutment [AR] - 30°

- MUA Screw (MUAARS) included
- MUA Angled Carrier (MUAAC) included

• Recommend torque : 25Ncm

Cuff Height (Labial) (mm)	Type	Ref.C
3.5 (1.1)	Hex	MUAARH3035LC
4.5 (2.1)		MUAARH3045LC
3.5 (1.1)	Non-Hex	MUAARN3035LC
4.5 (2.1)		MUAARN3045LC



▸▸ Contents of Multi-unit Abutment Set

Multi-unit Abutment Healing cap type Set reference code

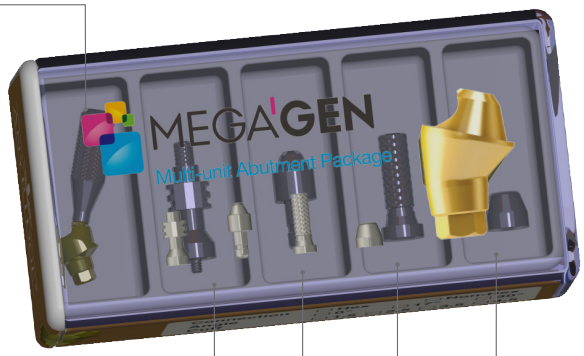
Order code : Available by changing to 'HP' instead of 'C' or 'LC' from current Ref.C

Ex) MUAARH1725LC → MUAARH1725 **HP**

Multi-unit Abutment CCM type Set reference code

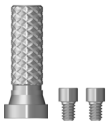
Order code : Available by changing to 'P' instead of 'C' or 'LC' from current Ref.C

Ex) MUAARH1725LC → MUAARH1725 **P**



Impression Coping

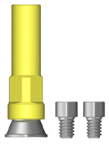
Analog



Temporary Cylinder

Healing Cap (Regular)

OR



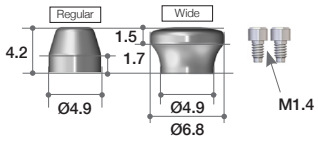
CCM Cylinder

➲ Components for Multi-unit Abutment (Continued)

Healing Cap

- Cylinder Screw (MUAS) 2ea included
- The size of healing cap can be selected depending on soft tissue volume or type of restorations.

Type	Ref.C
Regular	MUAHCL
Wide	MUAHCWL



Healing Cap Set Reference Code

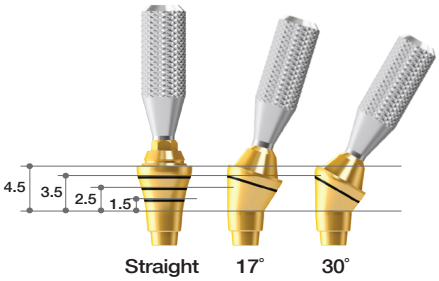
Order code : Available by changing to 'P' instead of 'L' from current Ref.C

Ex) MUAHCL → MUAHC**P**

Try-in Abutment

- Cuff height is indicated with laser markings
- Straight17˚, 30˚

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 : MUTIAAR00C**P**

※ Kit contains Straight, 17˚ and 30˚ type of Try-in Abutments (1 each)

▸▸ Starting Package Contents

Type		Ref.C
Healing Cap	Hex	SKARHN3000H
	Non Hex	SKARNN3000H
CCM Abutment	Hex	SKARHN3000
	Non Hex	SKARNN3000

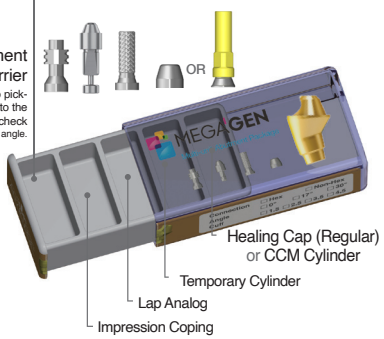
Straight 8set
(2set x 4kind of cuff)

Angle 17° 6set
(2set x 3kind of cuff)

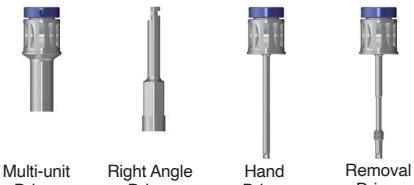
Angle 30° 4set
(2set x 2kind of cuff)

Multi-unit Abutment with *carrier

* MUA carrier is used to pick-up an abutment to the patient's mouth, and check its insertion angle.



Surgical Instrument



Multi-unit Driver | Right Angle Driver | Hand Driver | Removal Driver

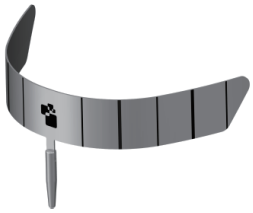
Healing Cap 2set

Regular

Wide

Try-in Abutment 1set
(Straight, 17°, 30°each 1ea)

Surgical Guide 2ea



➲ Components for Multi-unit Abutment (Continued)

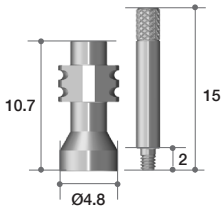
Impression Coping

(Pick-up)

- Guide pin (MUAGP) included

• For use with impression taking at abutment level

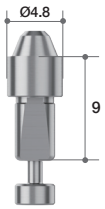
Connection	Ref.C
Non-Hex	MUAICT



Analog

• For use with duplicating multi-unit abutment in working model
• Available as RP Analog for 3D-printed working model

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

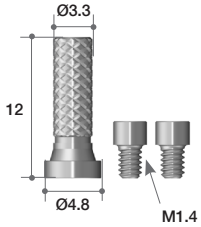


Temporary Cylinder

- Cylinder screws (MUAS) 2EA included

• For use with fabricating acrylic provisional restoration
• Grooves on post cylinder for storing resin adhesion
• Back-up screw is included
• Recommended torque: 15Ncm

Connection	Ref.C
Non-Hex	MUATCL

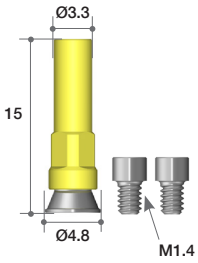


CCM Cylinder

- Cylinder screws (MUAS) 2EA included

• For use with fabricating screw-retained prosthesis with metal-reinforced or bar-structured overdenture
• Can be cast using non-precious dental alloys (Ni-Cr, Cr-Co alloys)
• Melting temperature of CCM base: 1300~1400°C
• Back-up screw included
• Recommended torque: 15Ncm

Connection	Ref.C
Non-Hex	MUACCML

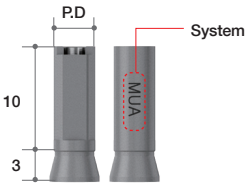


Scan Abutments

- Abutment Screw(SAMUAS) included

• For Chairside/ Labside
• Surpporting Dental CAD
  - 3Shape / Exocad / Dental Wings
• Recommend torque : By Hand (5~8Ncm)

Profile Diameter	Height (mm)	Ref.C
Ø4.0	13	AMUASR4013T

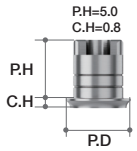


ZrGEN Abutments

- Cylinder Screw(MUAS) included.

- Titanium Base
- 1 set consists of 10 Abutments.
  - included spare Abutment Screw
- Supporting Dental CAD
  - 3Shape / Exocad / Dental Wing
- Post Height can be checked by the number of Groove.
  - Post Height : 5mm → Groove : 2ea
  - Post Height : 6mm → Groove : 4ea
  - Post Height : 8mm → Groove : 6ea
- Recommend torque : 15Ncm

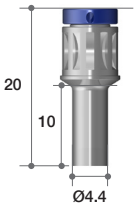
Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
Ø5.5	0.8	5	N Type	AMUAPR5515N.MTN
		6		AMUAPR5516N.MTN
		8		AMUAPR5518N.MTN



Multi-unit Driver

- Use to torque straight type Multi-unit Abutments.
- Use with a torque wrench **(ref code: MTW300A)**

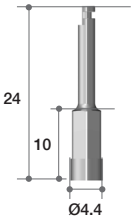
Hex	Length	Ref.C
2.0	10	MUD10



Right Angle Driver

- Use to torque straight type Multi-unit Abutments.
- Use with latch-type handpiece.
- Use with Meg-TORQ **(ref code: MEG_TORQ)**

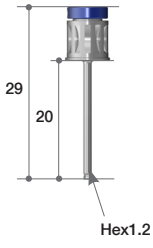
Hex	Length	Ref.C
2.0	10	MURAD10



Hand Driver

- Use for abutment screw with 1.2 hex hole.
- Use up to 15° divergent.
- It should use under 30Ncm torque.

Hex	Length	Ref.C
1.2	20	MUHD1220

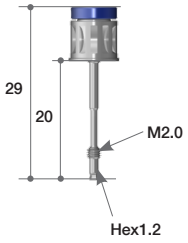


➲ Components for Multi-unit Abutment

Removal Driver

- Use for abutment screw with 1.2 hex hole.
- Use up to 15° divergent.
- Exclusively for AnyRidge system.
- It should use under 30Ncm torque.

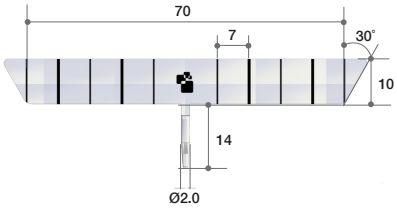
Hex	Length	Ref.C
1.2	20	MUARD20



Surgical Guide

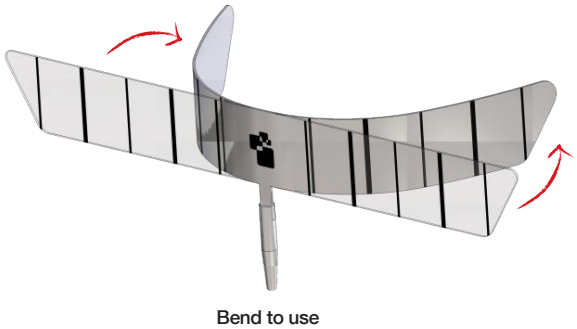
- 7mm distance between lines
- Place center pin after initial drilling at center of arch

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

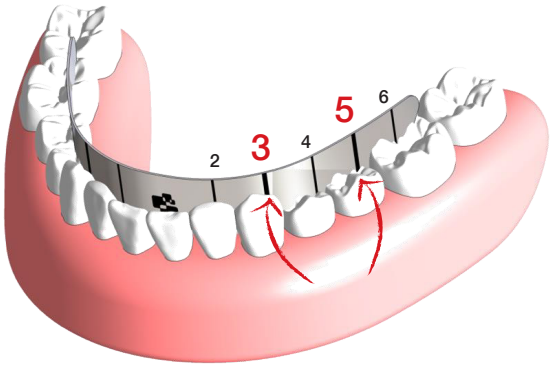


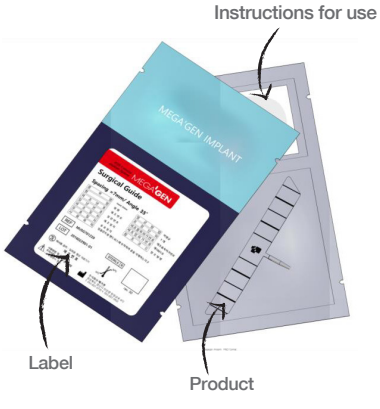
▸▸ How to use Surgical Guide

※ For easy identification, surgical guide includes thicker lines for canines & second premolars, as most common indicators
※ Surgical guide can also be used with first molars



Bend to use



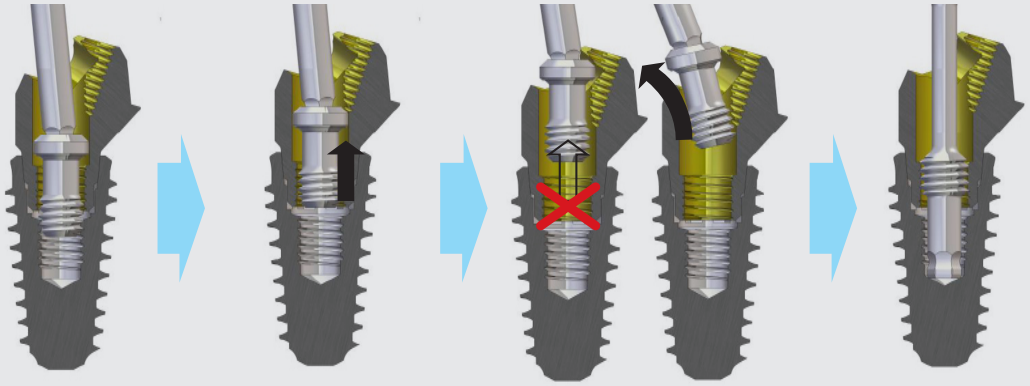


[Packaging]

▸▸ Screw & Abutment Tightening Torque Guide

- Abutment Screw (M1.8 & M2.0) : 25Ncm
- Cylinder Screw (M1.4) : 15Ncm
- Straight Abutment (M1.8 &M2.0) : 35Ncm

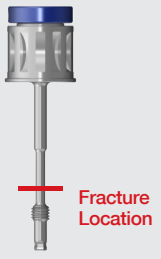
Instruction for removing abutment screw from Multi-unit abutment [Exclusively for AnyRidge system]



1. Completely unscrew abutment screw by rotating it counterclock wise (approximately 4 rotations are required). It should sue with a Hand Driver **(ref code: MUHD1220)**
2. Pull the Hand Driver up straight until it is visible through abutment crew hole. Shaking left and right may be required if the screw becomes stuck inside of the abutment hole.
3. Slightly rotate the screw to the main access hole. Otherwise the screw could fall back into the screw hole due to distur bance of abutment structure.
4. Remove abutment with the Removal Driver **(ref code: MUARD20)** by rotating it clockwise.

Driver Tightening Torque Guide

1. Multi-unit Abutment Remover Driver



< 30Ncm

2. Multi-unit Hand Driver

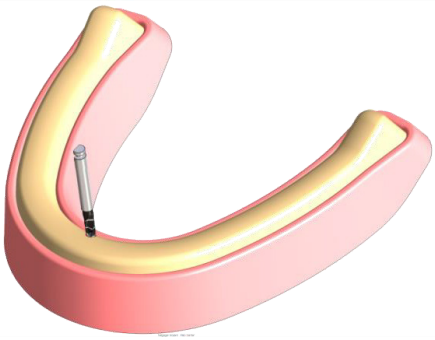
< 30Ncm

- Excessive torque more than 30Ncm may cause fracturing of the driver.
- Straight type Multi-unit abutment needs to use the Multi-unit Driver that is provided in the starting package. **(ref code: MUD10)**
- Strongly recommended to pick up the abutment screw by pressing the Hand Driver to remove the abutment screw from the Multi-unit abutment.

▸▸ Surgical Protocol_Conventional Surgery

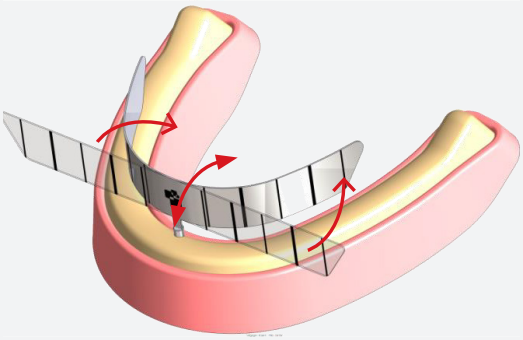
1. Initial drilling

For placement of center pin after initial drilling in the centric of the arch. The drilling hole should be in lingual area of the arch to ensure the best result.



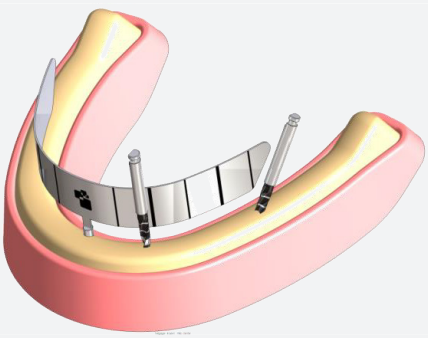
2. Guide Bending & Position

Bend according to the patient's arch.



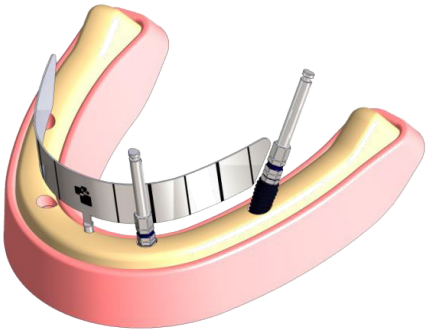
3. Drilling

Drill according to the surgical plan.



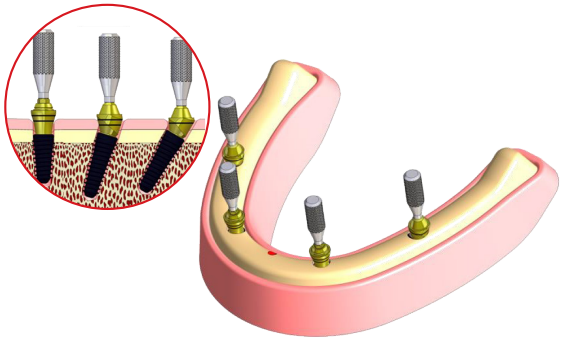
4. The fixture is implanted

Place implant fixtures according to the surgical plan and do not exceed torque value (60Ncm)



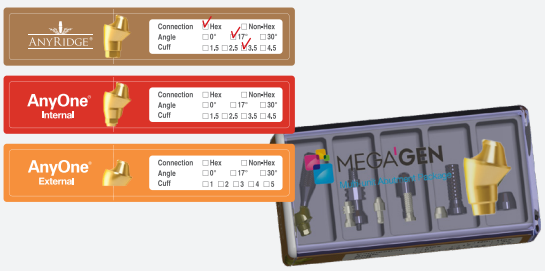
5. Try-in Abutment

Using the laser marking on the Try-in abutment, select the appropriate cuff height and angulation of Multi-unit abutments.



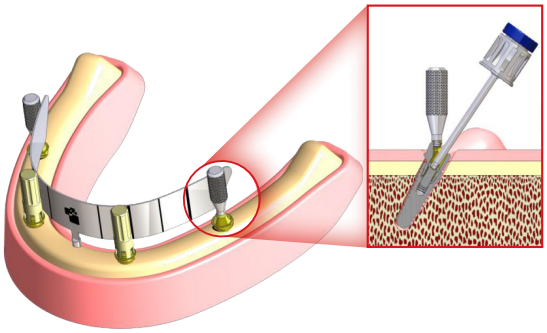
6. Abutment Selection

Select the appropriate set after checking the angulation and cuff height that were measured with the Try-in abutment. Connect the abutment onto the fixture and check the angulation and the cuff height.

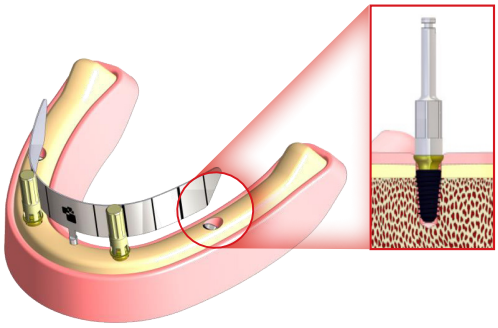


7. Tightening the Abutment

Abutment Screw tightening Torque : 25Ncm
After connecting Abutment Screw, remove Carrier from Abutment. For 17° abutment, you need to tighten it by tilting Driver about 5°. Connect Abutment and check the path using Carrier.

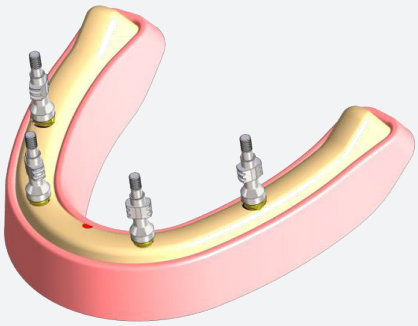


Straight Abutment tightening Torque : 35Ncm
After removing Carrier, connect Abutment to the Fixture using Right Angle Driver or MUA Driver.



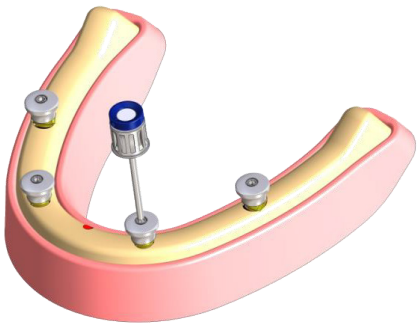
8. Impression

Take an impression with an individual tray. (Open tray method is strongly recommended to avoid any error in the future.)

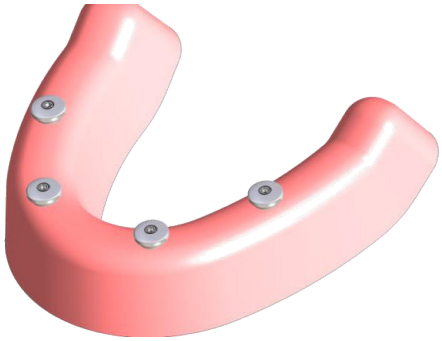


9. Healing Cap

Cylinder Screw tightening Torque : 15Ncm
Place Healing Cap on top of Multi-unit abutment, and connect Cylinder Screw with the Hand Driver.



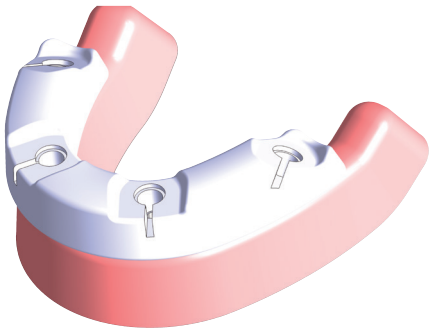
10. Suture



▸▸ Surgical Protocol_Guided Surgery

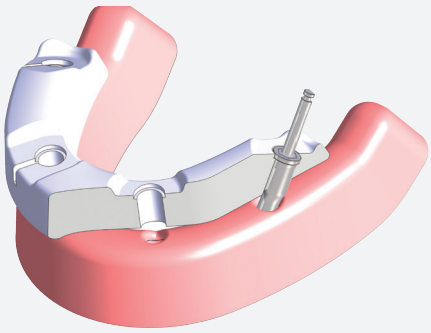
1. Guide

Place a R2 Guide.



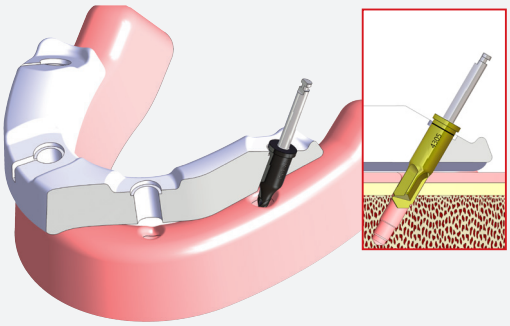
2. Narrow Crest Drill

For the cases with narrow ridge or placing a fixture slanted on the lingual side, you can flatten the surface and drill stably without slipping

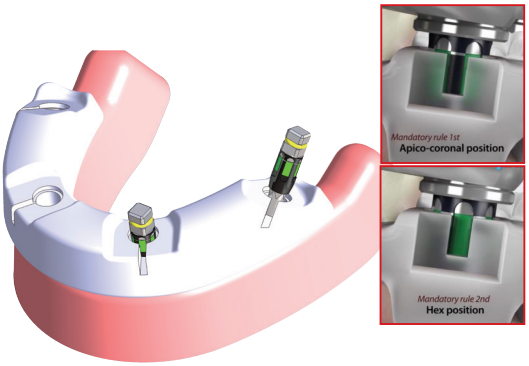


3. Drilling

Drill according to the drilling sequence.

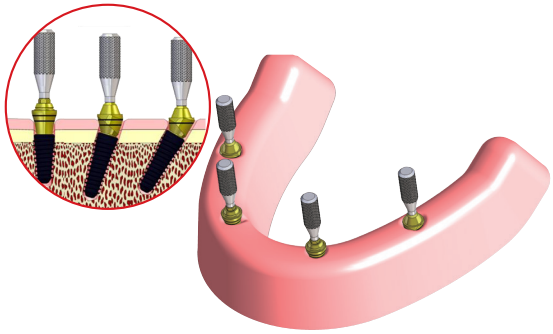


4. Fixture Placement



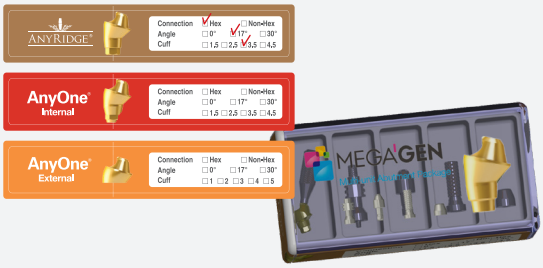
5. Try-in Abutment

Using the laser marking on the Try-in abutment, select the appropriate cuff height and angulation of Multi-unit abutments.



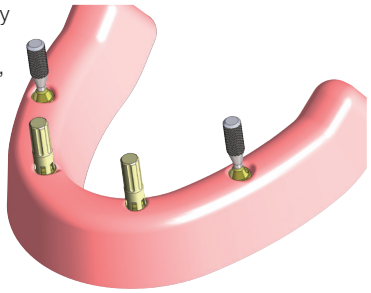
6. Abutment Selection

Select the appropriate set after checking the angulation and cuff height that were measured with the Try-in abutment. Connect the abutment onto the fixture and check the angulation and the cuff height.



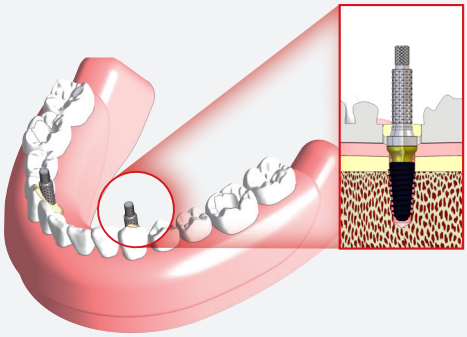
7. Connect Temporary Cylinder in the front

Connect the Temporary Cylinders in the front. Make sure that holes in the denture are free from any contact with the Temporary Cylinder. Adjust the holes until there is no contact between the denture and the Temporary Cylinder.
*If the Temporary Cylinder is fixed using Guide Pin, resin flow into access hole will be prevented.



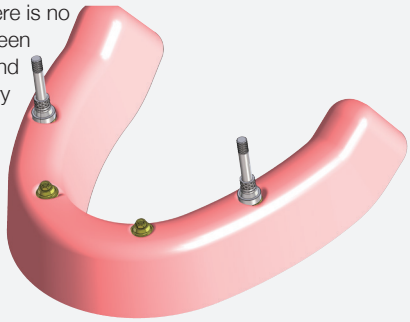
8. Setting Temporary and Denture

Reline the temporary denture with resin to fill the space around the Temporary Cylinder.



9. Connect Temporary Cylinder in the back

Connect rest of theTemporary Cylinders in the back, make sure that the holes in the denture are free from any contact with the Temporary Cylinder. Adjust the holes until there is no contact between the denture and the Temporary Cylinder.



10. Setting Temporary and Denture

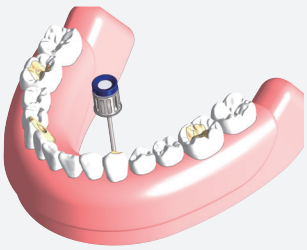
All temporary cylinders are picked up in the denture with resin.

11. Temporary Fixation

Remove Denture and fill up the bottom and other non-resin filled parts with resin and completely fix Temporary Cylinder.

12. Tighten the Denture

Cylinder Screw tightening Torque : 15Ncm Set Denture onto Multi-unit Abutment and tighten cylinder

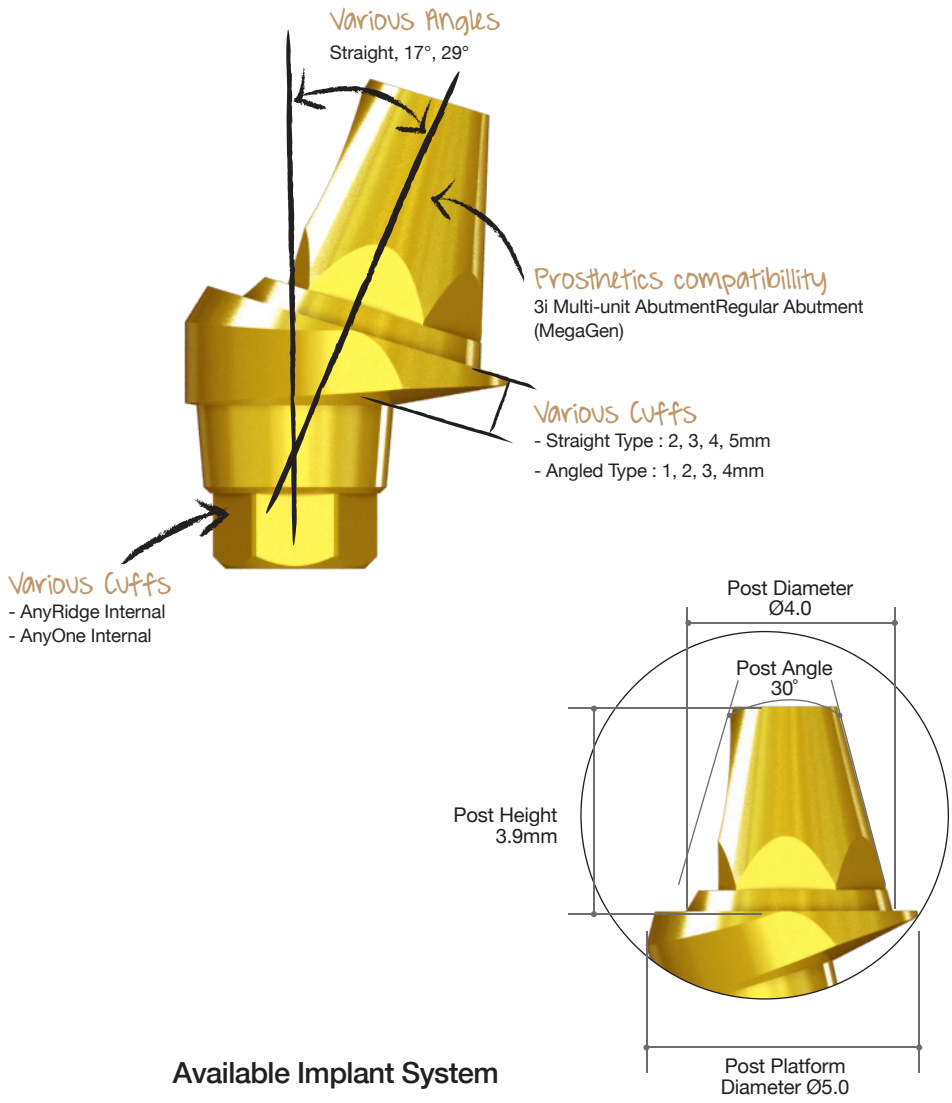


13. Finish

Close Hole using EZ Seal and finalize the surgery.

▸▸ Multi-unit Abutment S Type

The solution for the edentulous patients



Benefit

1. Retrievability means that doctor can change or retrieve the final prosthetics easily.

2. Two types of angulation : 17°, 29°. It means that doctor has various options to angle.

3. Various cuff heights (1~5mm) : Doctor can have flexiblily on the depth of fixture placement.

4. MegaGen's Multi-unit Abutment is perfectly compatible with the prosthetic components of Multi-unit Abutment of 3i implant, and Regular Abutment of MegaGen's Exfeel External system.

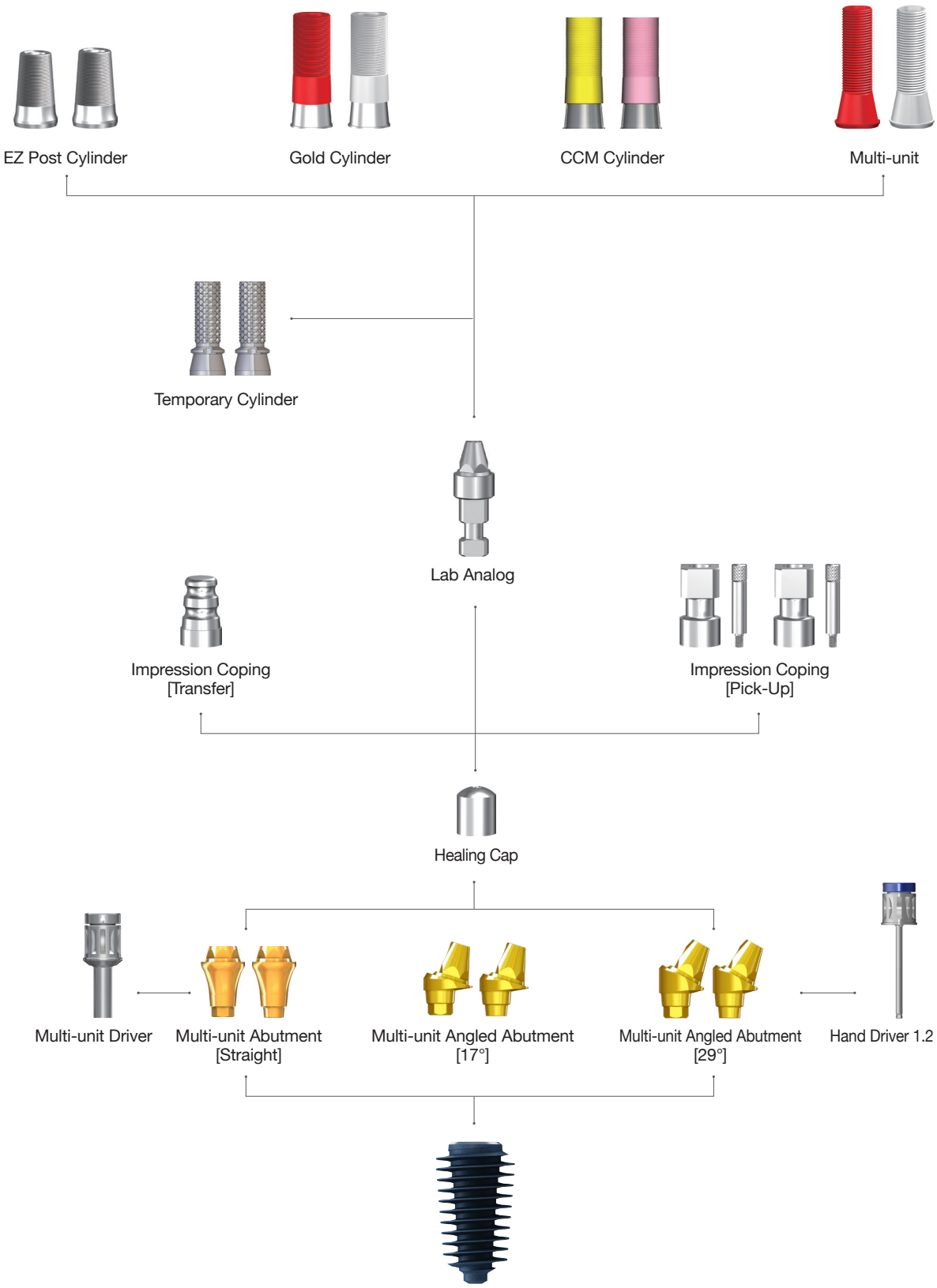
Available Implant System

- AnyRidge Internal
- AnyOne Internal

II. Abutment Level Prosthesis

3-2. Multi-unit Abutment & Components

(All-on-4) (S-Type)

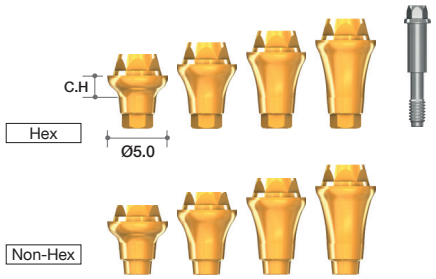


Multi-unit Abutment

Multi-unit Abutment (Straight)

- Multi-unit Abutment Screw(AANMUS20) included.
- Use with Multi-unit Driver.
  - TCMMUDS20 (short)
  - TCMMUDL20 (long)
- Recommend torque : 35Ncm

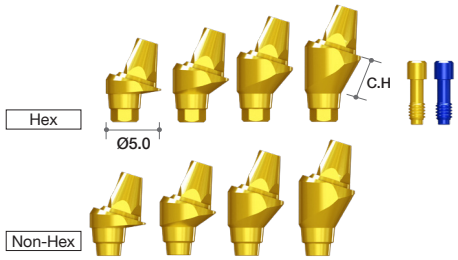
Cuff Height (mm)	Type	Ref.C
2.0	Hex	AANMUH5020T
3.0		AANMUH5030T
4.0		AANMUH5040T
5.0		AANMUH5050T
2.0	Non-Hex	AANMUN5020T
3.0		AANMUN5030T
4.0		AANMUN5040T
5.0		AANMUN5050T



Multi-unit Angled Abutment (17°)

- Multi Post Screw(MUMSF/MUMST) included.
- Recommend torque : 35Ncm

Cuff Height (mm)	Type	Ref.C
1.0	Hex	AANMUH50117L
2.0		AANMUH50217L
3.0		AANMUH50317L
4.0		AANMUH50417L
1.0	Non-Hex	AANMUN50117L
2.0		AANMUN50217L
3.0		AANMUN50317L
4.0		AANMUN50417L



Multi-unit Angled Abutment (29°)

- Multi Post Screw(MUMSF/MUMST) included.
- Recommend torque : 35Ncm

Cuff Height (mm)	Type	Ref.C
1.0	Hex	AANMUH50129L
2.0		AANMUH50229L
3.0		AANMUH50329L
4.0		AANMUH50429L
1.0	Non-Hex	AANMUN50129L
2.0		AANMUN50229L
3.0		AANMUN50329L
4.0		AANMUN50429L

Components for Multi-unit Abutment (Continued)

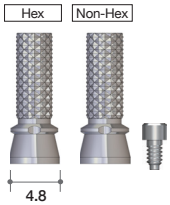
Lab Analog

Profile Diameter	Ref.C
Ø4.8	RELA300

Temporary Cylinder

- Cylinder Screw (TASH140) included
- Recommend torque : 15Ncm

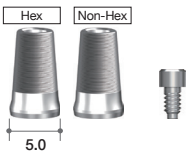
Profile Diameter	Type	Ref.C
Ø4.8	Hex	ETH100T
	Non-Hex	ETN100T



EZ Post Cylinder

- Cylinder Screw (TASH140) included
- Recommend torque : 15Ncm

Profile Diameter	Type	Ref.C
Ø5.0	Hex	RCA900T
	Non-Hex	RCA800T



Healing Cap

Profile Diameter	Ref.C
Ø5.0	REC600

Impression Coping
(Transfer)

Profile Diameter	Ref.C
Ø4.8	RITE480

➲ Components for Multi-unit Abutment

Impression Coping

(Pick-Up)

- Guide Pin (RICG150) included

Height (mm)	Type	Ref.C
9.4	Hex	RIEH480T
	Non-Hex	RIEN480T

Gold Cylinder

- Cylinder Screw (TASH140) included

- Useful to make a customized abutment in difficult situations.
- Precious and non-precious alloys.
- Melting point of gold alloy : 1063°C
- Threaded sleeves for convenient Resin / Wax-up.
- Recommend torque : 15Ncm

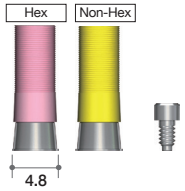
Profile Diameter	Sleeve Color	Ref.C
Ø5.0	Red	REGC200T
	White	REGC100T

CCM Cylinder

- Cylinder Screw (TASH140) included

- Useful to make a customized abutment in difficult situations.
- Can be casted 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
- Recommend torque : 15Ncm

Profile Diameter	Sleeve Color	Ref.C
Ø4.8	Pink	RCA5013HT
	Yellow	RCA5013NT



Plastic Cylinder

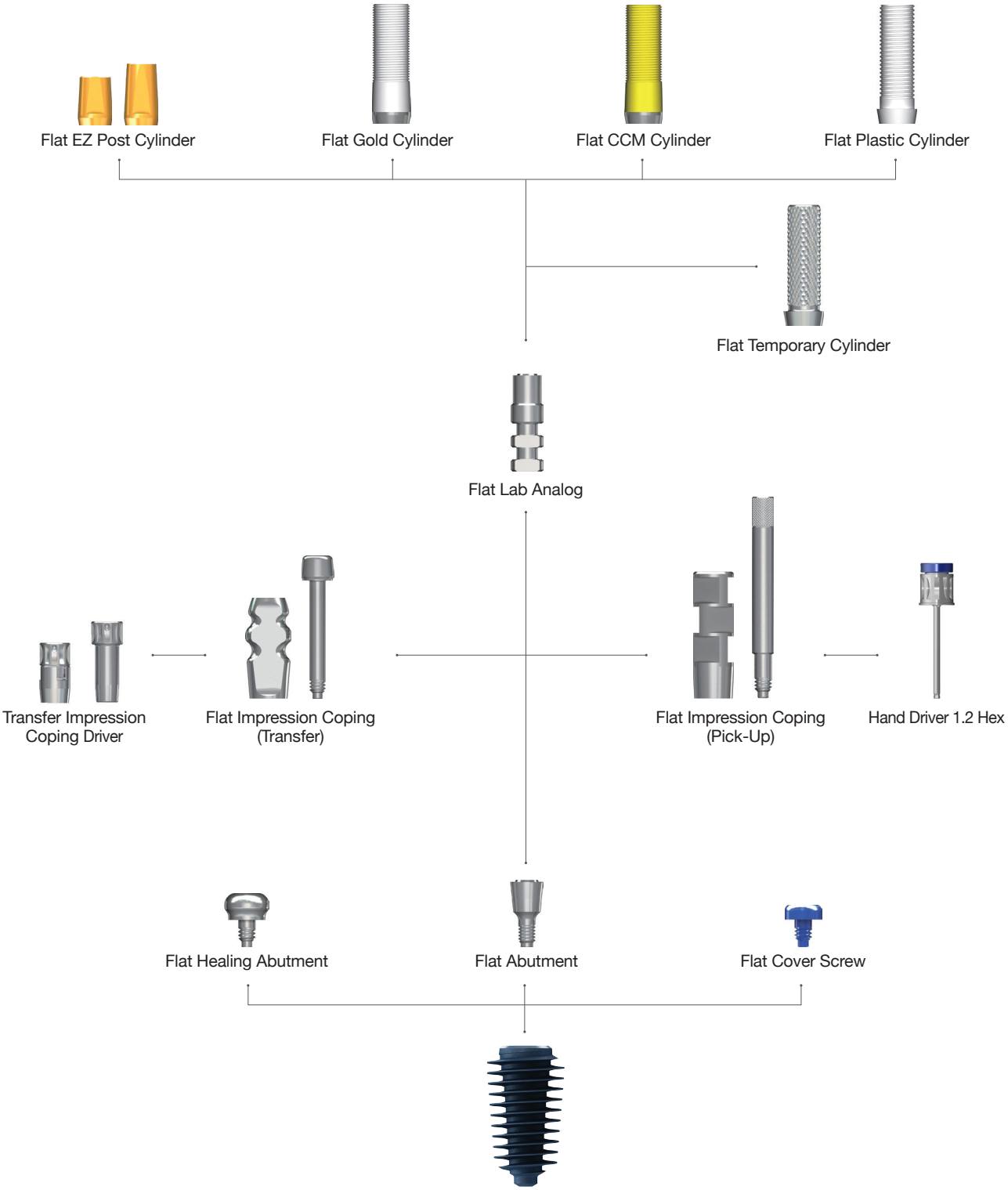
- Cylinder Screw (TASH140) included
- Recommend torque : 15Ncm

Profile Diameter	Sleeve Color	Ref.C
Ø5.2	Red	RPEH100T
	White	RPEN100T

II. Abutment Level Prosthesis

4. Flat Abutment & Components

: The main advantage of this Flat Abutment is the freedom on angulation.
Flat Abutment can cover any angulation problems.
: Only for multiple (Cannot be used for single implant)
: Only with screw-retained prosthetics.



➲ Components for Flat Abutment (Continued)

Flat Abutment

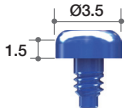
- Use Hand Driver (1.6 Hex)
- Recommend torque : 25Ncm

Profile Diameter	Cuff Height (mm)	Ref.C
Ø3.5	1	AANFAL3510
	2	AANFAL3520
	3	AANFAL3530
	4	AANFAL3540
	5	AANFAL3550

Flat Cover Screw

- Recommend torque : by hand (5 - 8Ncm)

Profile Diameter	Ref.C
Ø3.5	FCS3510



Flat Healing Abutment

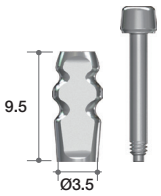
- Recommend torque : by hand (5 - 8Ncm)

Height(mm)	Ref.C
2	FHA402
3	FHA403
4	FHA404

Flat Impression Coping (Transfer)

- Guide Pin (FGPT) included.
- Should be tightened with Impression Driver (Page. 405)
- Special impression coping screw which can be used with a 1.2mm hex driver is available on request.

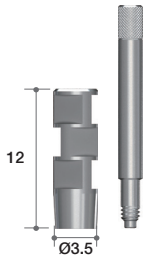
Profile Diameter	Height (mm)	Ref.C
Ø3.5	9.5	FIT4012T



Flat Impression Coping (Pick-Up)

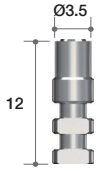
- Guide pin (FGPP15) included.

Profile Diameter	Height (mm)	Ref.C
Ø3.5	12	FIP4012T



Flat Lab Analog

Profile Diameter	Height (mm)	Ref.C
Ø3.5	12	FLA3512



Flat Temporary Cylinder

- Flat Cylinder Screw (FAS) included.

• Recommend torque : 15Ncm

Profile Diameter	Ref.C
Ø4.0	FTC4012T

Flat EZ Post Cylinder

- Flat Cylinder Screw (FAS) included.

• Recommend torque : 25Ncm

Height (mm)	Ref.C
5.5	FEC4005T
7.0	FEC4007T

Flat Gold Cylinder

- Flat Cylinder Screw (FAS) included.

• Useful to make a customized abutment in difficult situations.
• Precious and non-precious alloys.
• Melting point of gold alloy : 1063°C
• Threaded sleeves for convenient Resin / Wax-up.
• Recommend torque : 25Ncm

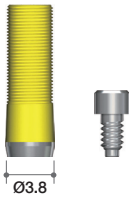
Profile Diameter	Ref.C
Ø3.8	FGC4012T

Flat CCM Cylinder

- Flat Cylinder Screw (FAS) included.

• Useful to make a customized abutment in difficult situations.
• Can be casted with non-precious alloys (Ni-Cr, Cr-Co alloys).
• Non-precious melting temperature : Depend on Manufacturer
• Threaded sleeves for convenient Resin / Wax-up.
• Melting temperature of CCM : 1300~1400°C
• Recommend torque : 25Ncm

Profile Diameter	Ref.C
Ø3.8	FCC4012T



Flat Plastic Cylinder

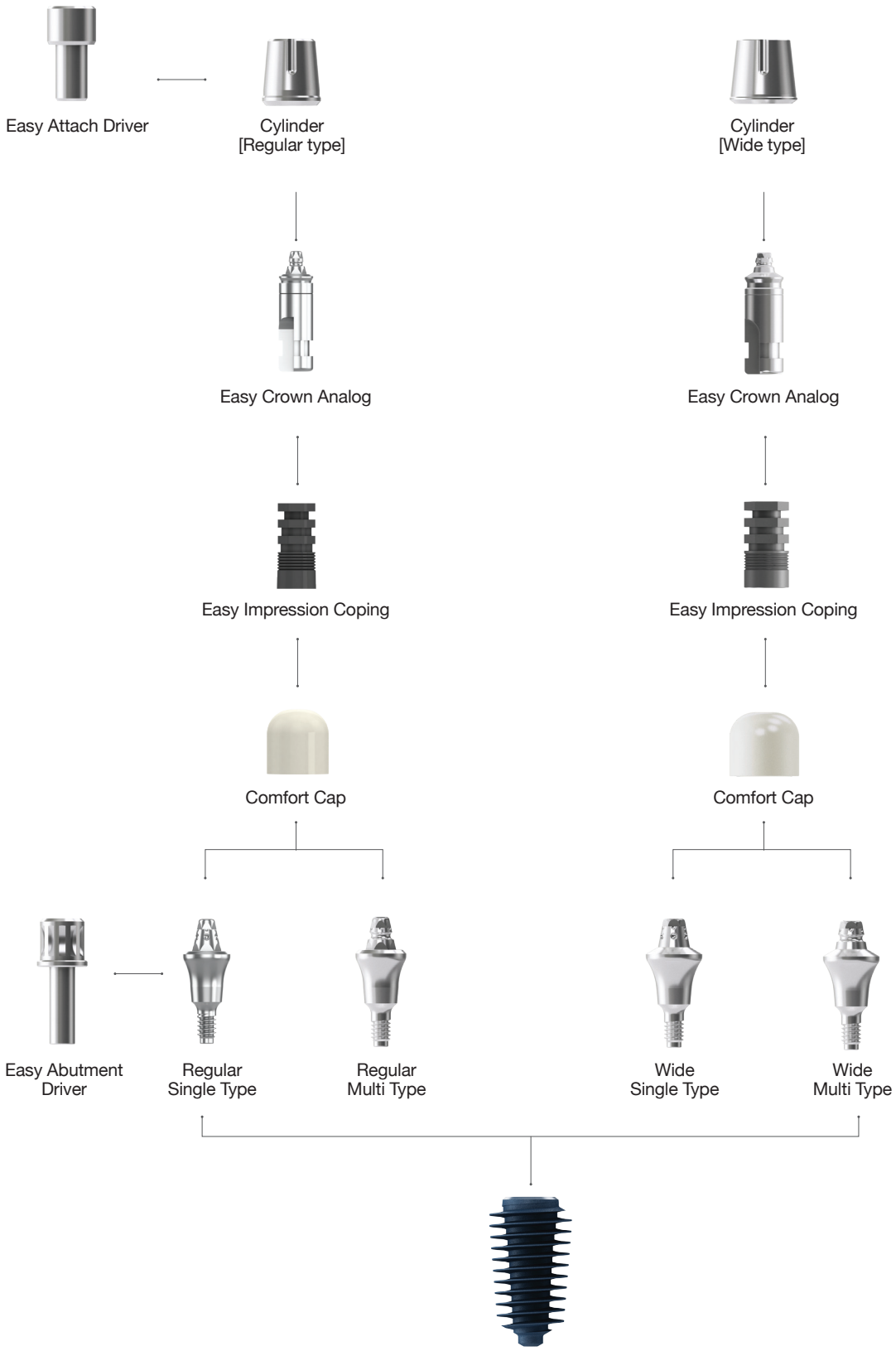
- Flat Cylinder Screw (FAS) included.

• Recommend torque : 25Ncm

Profile Diameter	Ref.C
Ø4.0	FPC4012T

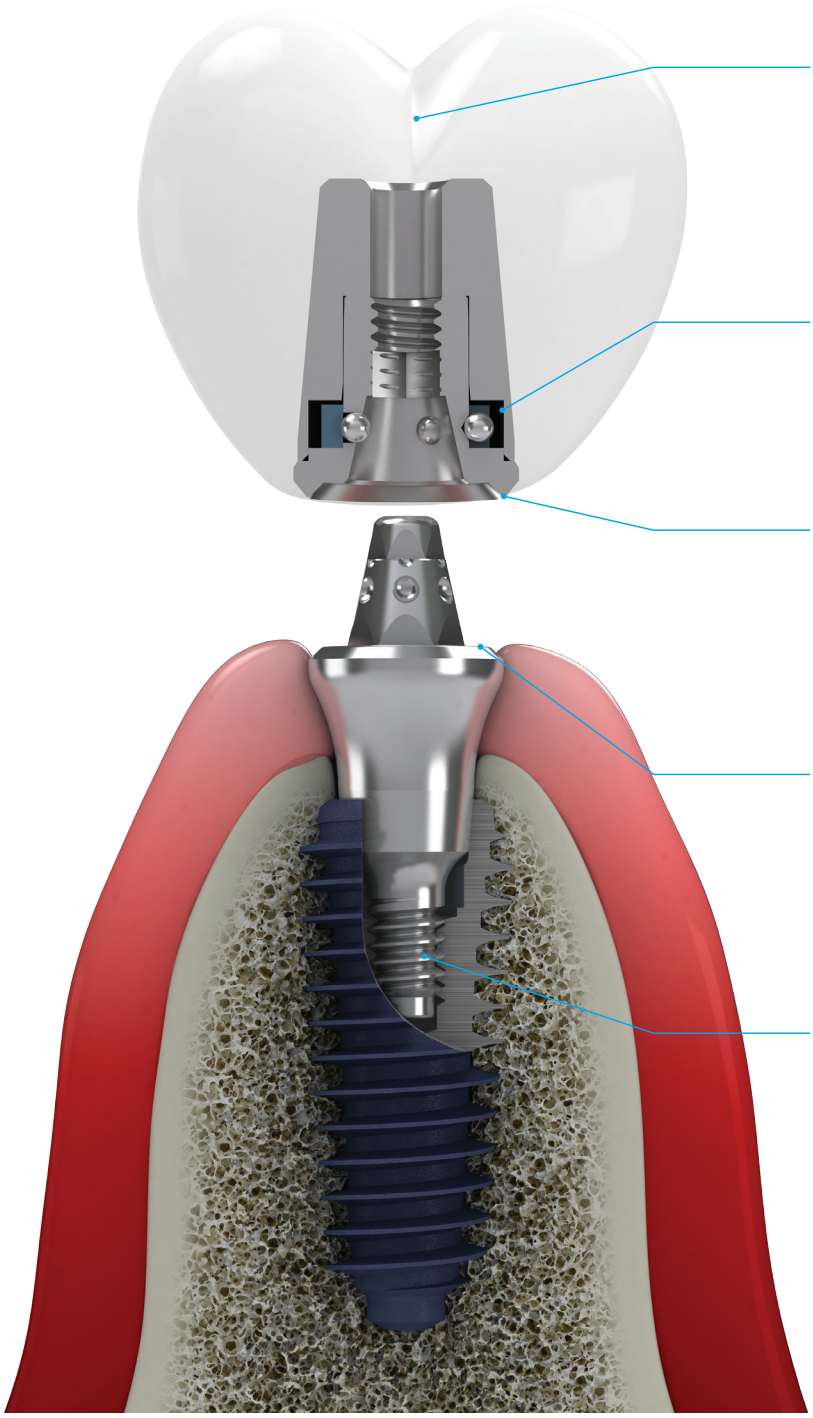
II. Abutment Level Prosthesis

5. EZ CROWN & Components



▸▸ EZ CROWN

Imagine perfect prosthetics that can last a life-time!



New concept for implant prosthetics

The EZ locking connection between the spherical grooves of the abutment and the Zirconia ball-Nitinol spring of the cylinder creates a screw-less implant, facilitating an optimal occlusion & esthetic.

High retrievability

The EZ locking connection uses an elastic Nitinol spring & flexible abutment structure that can compensate up to 12.5 degrees, allowing the prosthesis to be retrieved.
This high retrievability enables convenient repair of the implant and effective treatment of any peri-implant inflammation.

No cement

As the EZ Crown abutment functions as a convertible abutment, this allows all the implant procedures to occur at the gingival level, including impression-taking, prosthesis fabrication, and aftercare.
As a result, the entire management/maintenance process is improved.

New management & maintenance protocol

EZ Crown makes the entire management/maintenance process more effective for the clinician and pain-free for the patient.

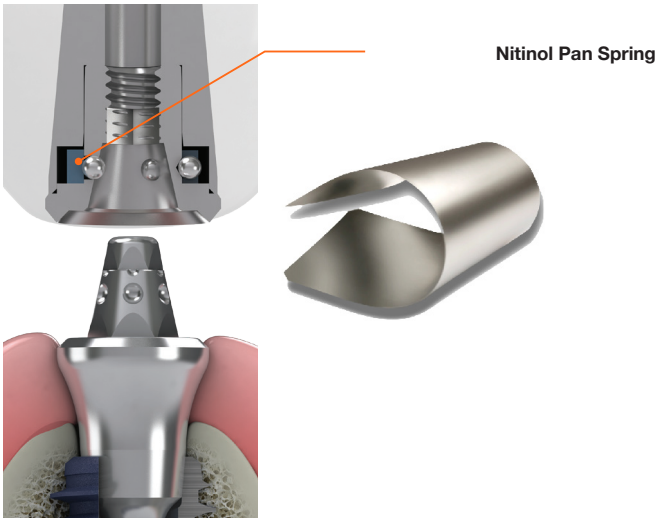
Less sinking, less loosening

The one-piece abutment is tightened into the fixture using a torque of 35N, which essentially eliminates the sinking problem inherent with an internal connection, while also safeguarding against screw loosening.

▸▸ EZ CROWN

Nitinol (shape memory alloy) pan spring provides long-term retentivity

Nitinol (nikel titanium alloy) is a shape memory alloy that is widely used in aerospace & medical technology. As dental implants need to be maintained for over 10 years, the special shape memory characteristic of Nitinol is applied to provide long-term retentivity of the dental prosthesis.



EZ Locking is more convenient for dental prosthetics

As shown in the table, EZ Crown is more flexible & convenient for all aspects of implant prosthetics.

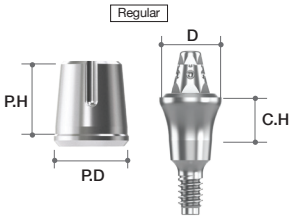
	EZ CROWN	IN-EXT	CEMENT-RETAINED	SCREW-RETAINED	SCRP
Screw Hole	No	Yes	No	Yes	Yes
Cement removal	Easy	Difficult	Difficult	Easy	Easy
Aesthetics	Excellent	Poor	Excellent	Poor	Poor
Repair	Easy	Easy	Difficult	Easy	Easy
Connection Level	Gingiva	Gingiva	Fixture	Fixture	Fixture
LOAD	Low	Low	High	High	High
Screw Loosening	Low	Low	High	High	High
Retrievability	Very Easy	Easy	Difficult	Easy	Easy

Abutment-level impression only - no impression coping or scan abutment

Another benefit of EZ Crown is easy impression work, just a normal impression - no impression coping or scan abutment – so less effort & shorter chair-time.

Abutment Option

Abutment



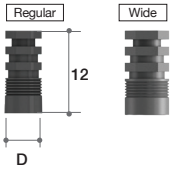
System	Profile Diameter	Cuff (mm)	Post Height (mm)	Ref.C Single	Ref.C Multi
AnyRidge	Regular (Ø 5.2)	1.0	3.8	SS52138AN	S52138AN
		2.0		S52138AN	S52238AN
		3.0		SS52238AN	S52338AN
		4.0		S52238AN	S52438AN
		5.0		SS52338AN	S52538AN
		1.0	5.0	S52338AN	S52150AN
		2.0		SS52438AN	S52250AN
		3.0		S52438AN	S52350AN
		4.0		SS52538AN	S52450AN
		5.0		S52538AN	S52550AN
		1.0	6.5	SS52150AN	S52165AN
		2.0		S52150AN	S52265AN
		3.0		SS52250AN	S52365AN
		4.0		S52250AN	S52465AN
		5.0		SS52350AN	S52565AN
	Wide Type (Ø 6.0)	1.0	3.8	SS60138AN	S60138AN
		2.0		SS60238AN	S60238AN
		3.0		SS60338AN	S60338AN
		4.0		SS60438AN	S60438AN
		5.0		SS60538AN	S60538AN
		1.0	5.0	SS60150AN	S60150AN
		2.0		SS60250AN	S60250AN
		3.0		SS60350AN	S60350AN
		4.0		SS60450AN	S60450AN
		5.0		SS60550AN	S60550AN

➲ Components for EZ CROWN

Impression Coping

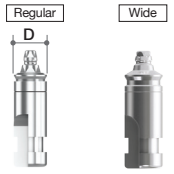
- Used for impression-taking on abutment level

Diameter	Type	Ref.C
Ø4.8	Regular	EIC
Ø5.5	Wide	EIC-W



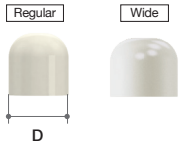
Easy Crown Analog

Diameter	Type	Ref.C
Ø4.5	Regular	ECL
Ø4.95	Wide	ECL-W



Comfort Cap

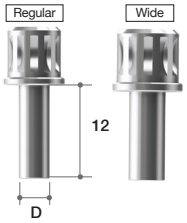
Diameter	Type	Ref.C
Ø5.0	Regular	ECH
Ø6.0	Wide	ECH-W



Easy Abutment Driver

- Used to connect the Abutment

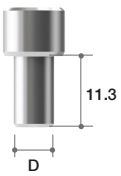
Diameter	Type	Ref.C
Ø4.0	Regular	EAD
Ø4.1	Wide	EAD-W



Easy Attach Driver

- Used to engage and place the cylinder

Diameter	Type	Ref.C
Ø6.5	Regular	EAAD
Ø7.9	Wide	EAAD-W



Easy Removal Driver

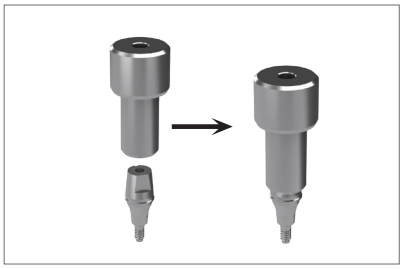
- Used for cylinder retrieval

Length(mm)	Ref.C
12	EARD

Instrument Set

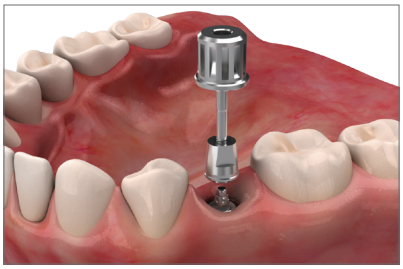
- Abutment Driver + Cylinder Driver + Retrieval Driver

▸▸ How to use EZ CROWN

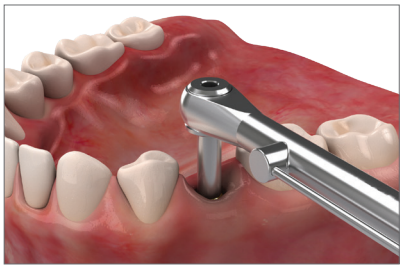


Connect Attach Driver to EZ Crown Abutment-Cylinder set

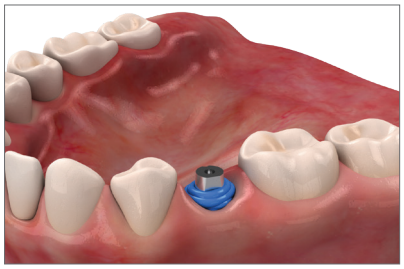
Connect the EZ Crown Abutment-Cylinder set to the fixture using Attach Driver'. (use hand)



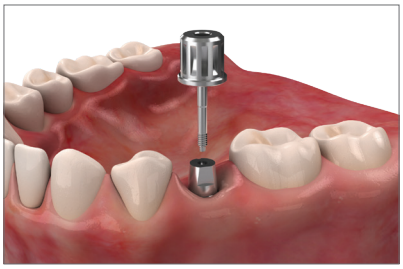
Remove the Cylinder from the EZ Crown Abutment using Remove Driver when tightened to some extent.



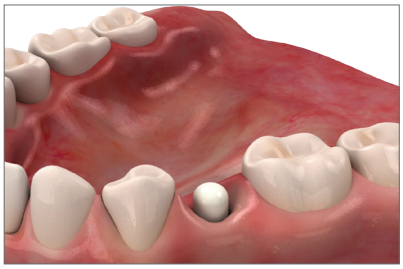
Tighten the EZ Crown Abutment to the fixture finally, using the torque wrench and Abutment Driver (35N)



Re-connect the Cylinder to the EZ Crown Abutment and take an impression on cylinder level

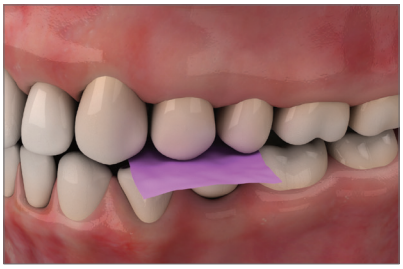


Remove the Cylinder" from the EZ Crown Abutment using Remove Driver

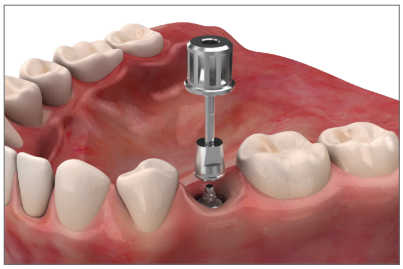


Connect Healing cap to the EZ Crown Abutment. Send Cylinder and the impression model to Dental Lab.

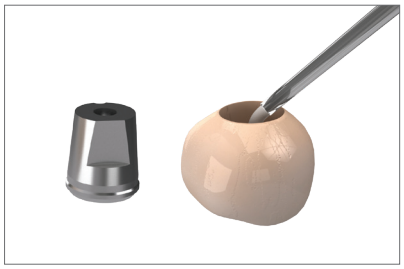
Final Crown and Cylinder



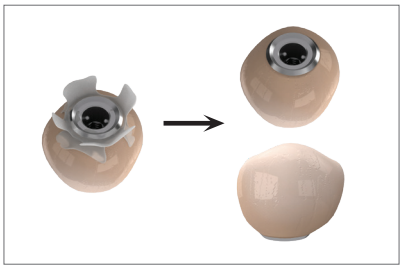
Re-tighten the Cylinder and Final Crown to the EZ Crown Abutment and then check the occlusion.



Remove the Cylinder" from the EZ Crown Abutment using "Remove Driver"



Cylinder and Final Crown cementation



Remove excess cement

Final Prosthesis

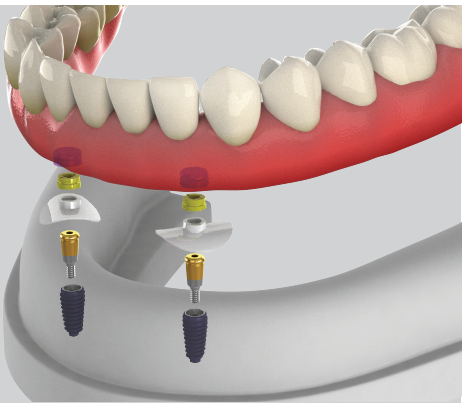
III. Overdenture Prosthesis

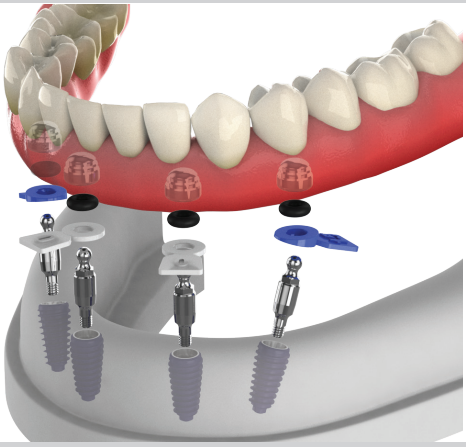
1. MegaGen Overdenture System

Meg-Loc

Compatible with products L & 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

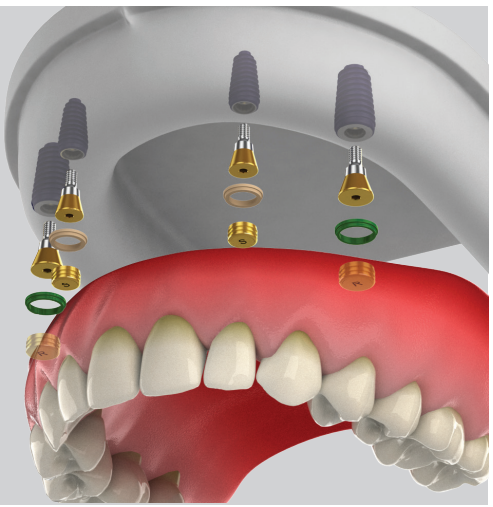
Smallest housing, retentive ring with longer life!
Even when the implant angle is not parallel, a stable denture can still be produced!

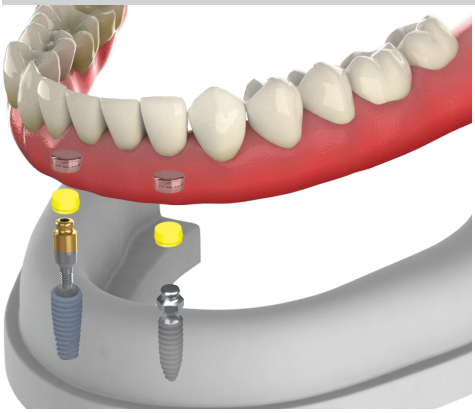
Compatible with other products with Ø2.25 head size, minimized patient inconvenience due to small-size housing, simpler to arrange artificial teeth as space occupied by denture is reduced, and easier to maintain than other systems.
Retentive ring has a high elasticity, abrasion resistance, and durability, 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 & sufficient magnetic force!
Completely blocks bursts & 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 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 & Components

Meg-Loc Metal Housing set

Block-out Spacer

Meg-Loc Abutment

▸▸ Meg-Loc Overdenture System

Advantages

Better abrasion resistance and durability

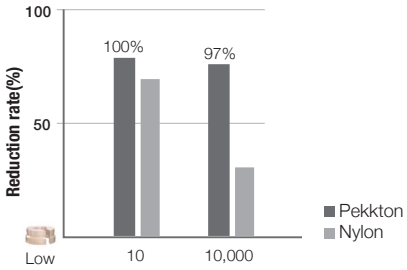
Combination of Titanium housing and reinforced plastic (Pekkton) provides low water solubility and high resistance, making it superior in abrasion resistance and durability compared to existing products.

Water Sorption Test

Property	Meg-Loc (Pekkton)	Product L	Unit
Water Sorption	8.7	93.5	μg/mm³

Stronger retention and longer life

Strong physical properties of Pekkton 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

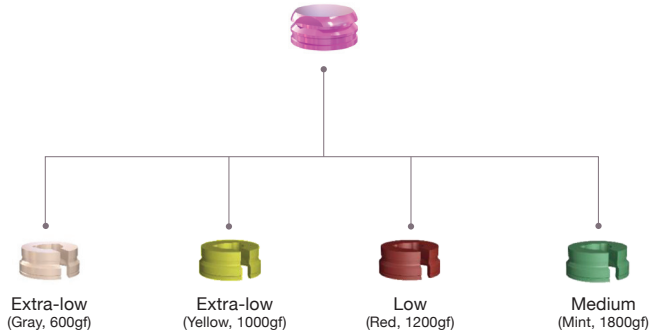
High resistance to plaque and easy cleaning
Easy replacement of retention insert

Easy compatibility

Compatible with Product L and Product K (same specifications)

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

Cuff Height (mm)	Ref.C
0	MLAR00
1.0	MLAR01
2.0	MLAR02
3.0	MLAR03
4.0	MLAR04
5.0	MLAR05
6.0	MLAR06
7.0	MLAR07

Meg-Loc Package

- 1 Meg-Loc Abutment

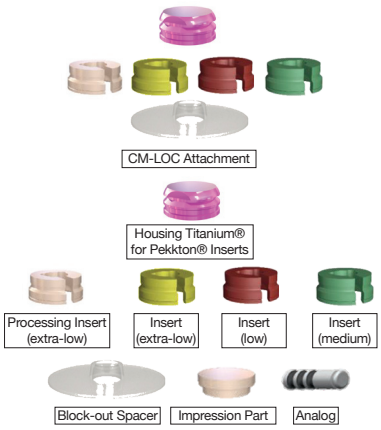
* Following package items are delivered with San DreMetto Korea packaging.

- 1 Titanium Housing
- 1 Block Out Spacer
- 4 Pekkton Retention Inserts
(Gray-600gf(for lab), Yellow-1000gf, Red-1200gf, Mint-1800gf)

Cuff Height (mm)	Ref.C
0	MLAR00P
1.0	MLAR01P
2.0	MLAR02P
3.0	MLAR03P
4.0	MLAR04P
5.0	MLAR05P
6.0	MLAR06P
7.0	MLAR07P

Meg-Loc Attachment

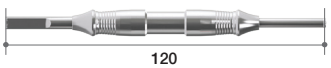
Description	QTY	Ref.C
CM-LOC Attachment	SET	CM-LOC
Housing Titanium® for Pekkton® Inserts	4EA	CM-LOC-TP
Processing Insert (extra-low)	4EA	CM-LOC-PI
Insert (extra-low)	4EA	CM-LOC-EL
Insert (low)	4EA	CM-LOC-L
Insert (medium)	4EA	CM-LOC-M
Block-out Spacer	4EA	CM-LOC-BS
Impression Part	4EA	CM-LOC-IP
Analog	4EA	CM-LOC-AN



Multi Tool

- Retention Insert Insertion & Removal Tool

Ref.C
MLMT



III. Overdenture Prosthesis

3. Meg-Ball Abutment & Components

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.

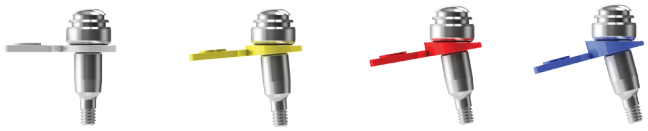
Double length of life

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



0° 5° 10° 15°

Tilting Angle

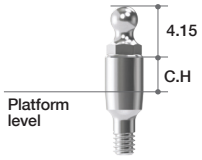
➲ Meg-Ball Overdenture System

Meg-Ball Abutment

- Angle compensation to one side 15 °
  (both sides 30 °)
- Ø2.25 Ball shape

• Recommend torque : 35Ncm

Cuff Height (mm)	Ref.C
0	MBAR00
1.0	MBAR10
2.0	MBAR20
3.0	MBAR30
4.0	MBAR40
5.0	MBAR50
6.0	MBAR60
7.0	MBAR70



Meg-Ball Package

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

Cuff Height (mm)	Ref.C
0	MBAR00P
1.0	MBAR10P
2.0	MBAR20P
3.0	MBAR30P
4.0	MBAR40P
5.0	MBAR50P
6.0	MBAR60P
7.0	MBAR70P

Meg-Ball Metal Housing Set

- 1 Metal Housing
- 1 Retentive Ring

Ref.C
MBHR

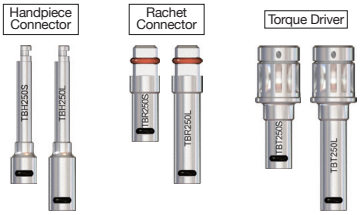
Retentive Ring Set

Quantity	Ref.C
5	MBR5
10	MBR10

Ball Driver

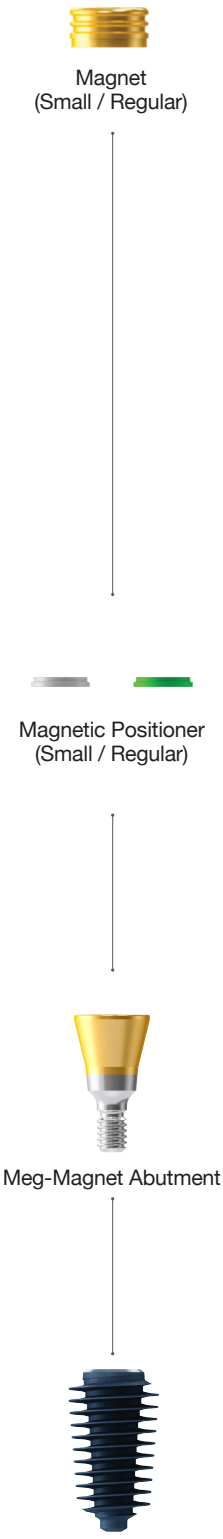
- For seating of the Ball Abutment into the fixture.
- Can connect to a Handpiece, Ratchet or Torque Wrench.
- Available in long and short.
- Refer to Page. 100

Type	Ref.c
Toque Driver(Short)	TBT250S
Toque Driver(Long)	TBT250L



III. Overdenture Prosthesis

4. Meg-Magnet Abutment & Components



▸▸ Meg-Magnet Overdenture System

Advantages

Easy to apply for elderly patients or disabled patients

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

Designed for maximum magnetic efficiency and durability

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

Outstanding retention
- Blocks bursting
- Corrosion resistant
- Abrasion resistant

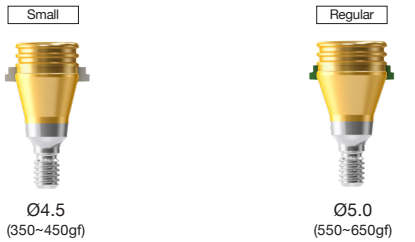
TiN coating provides corrosion resistance
Over 0.1mm thickness at contact with attachment to ensure wear resistance

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

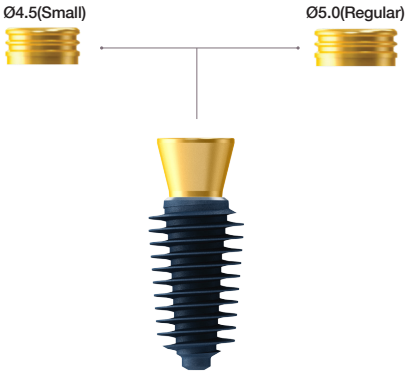
Magnet of Ø4.5 & Ø5.0 is compatible with other products
Laser marking on upper part makes it easy to distinguish between up and down

No slippage of magnet

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



Component of the Meg-Magnet



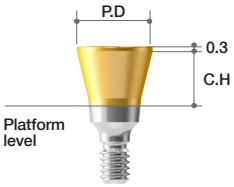
Meg-Magnet Overdenture System

Meg-Magnet Abutment

- Use to 1.2 Hex Driver

• Recommend torque : 35Ncm

Profile Diameter	Cuff Height (mm)	Ref.C
Ø4.5	0	MMAR400
	1.0	MMAR410
	2.0	MMAR420
	3.0	MMAR430
	4.0	MMAR440
	5.0	MMAR450
	6.0	MMAR460
	7.0	MMAR470
Ø5.0	0	MMAR500
	1.0	MMAR510
	2.0	MMAR520
	3.0	MMAR530
	4.0	MMAR540
	5.0	MMAR550
	6.0	MMAR560
	7.0	MMAR570



Meg-Magnet Package

- 1 Meg-Magnet Abutment
- 1 Magnet (Ø4.5-S, Ø5.0-R)
- 1 Magnetic Positioner

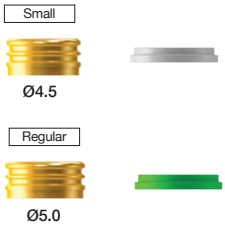
***Caution!**
[Magnetic Positioner]
- Use according to the standard
  : Small(White)/ Regular(Green)
  -Do not reuse

[Magnet]
- Do not heat above 70℃
  : Loss of magnetism at high temperatures
  : If sterilization is required, alcohol disinfection is recommended, not autoclave
- Remove if taking MRI.
- No direct contact between products during the procedure
  : Difficulty in separation due to attraction between magnets

Profile Diameter	Cuff Height (mm)	Ref.C
Ø4.5	0	MMAR400P
	1.0	MMAR410P
	2.0	MMAR420P
	3.0	MMAR430P
	4.0	MMAR440P
	5.0	MMAR450P
	6.0	MMAR460P
	7.0	MMAR470P
Ø5.0	0	MMAR500P
	1.0	MMAR510P
	2.0	MMAR520P
	3.0	MMAR530P
	4.0	MMAR540P
	5.0	MMAR550P
	6.0	MMAR560P
	7.0	MMAR570P

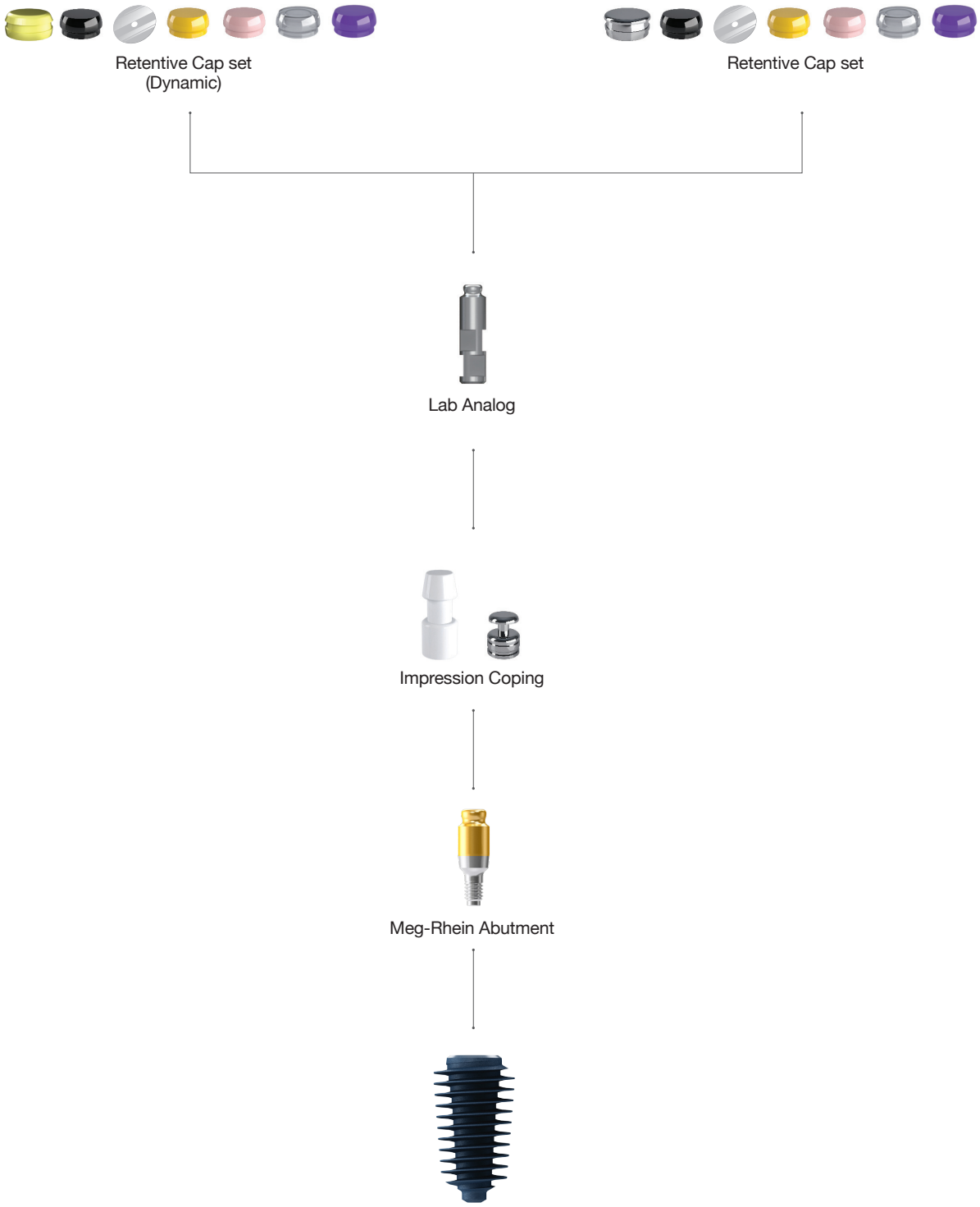
Meg-Magnet Attachment Set

Size	Ref.C
Small	MA402
Regular	MA502



III. Overdenture Prosthesis

5. Meg-Rhein Abutment & Components



Meg-Rhein Overdenture System

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-0.6kgf, Pink-1.2kgf, White-1.8kgf, Violet-2.7kgf)

• Perfect compatibility with the Rhein83 from Italy.
• Recommend torque : 35Ncm.

Cuff Height (mm)	Ref.C
0	ADR00PA
1.0	ADR01PA
2.0	ADR02PA
3.0	ADR03PA
4.0	ADR04PA
5.0	ADR05PA
6.0	ADR06PA

Meg-Rhein Overdenture System

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

• Perfect compatibility with the Rhein83 from Italy.
• Recommend torque : 35Ncm.

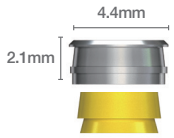
Cuff Height (mm)	Ref.C
0	ADR00P
1.0	ADR01P
2.0	ADR02P
3.0	ADR03P
4.0	ADR04P
5.0	ADR05P
6.0	ADR06P

▸▸ Overdenture System

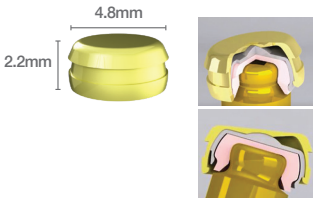
Advantages

Small & Easy-to-Use Housing System

Normal



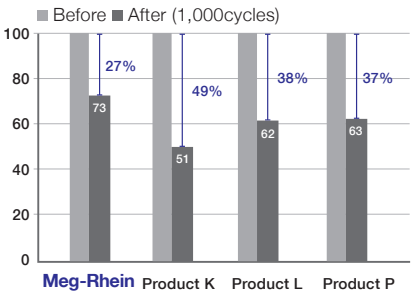
Dynamic

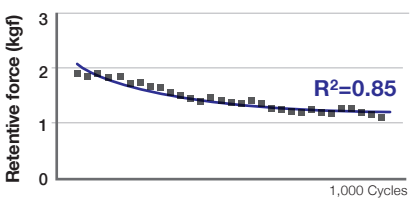


Tilting Angle

Various Retentive Caps of the Meg-Rhein

Low Reduction Rate & Uniform Variance of Retentive Force





R²(Coefficient of determination) becomes more reliable when it is close to "1".

Components for Meg-Rhein Abutment (Continued)

Stainless Steel Housing

- 5ea/pack

Ref.C
MHP

Stainless Steel Housing (Dynamic)

- 5ea/pack

Ref.C
THP

Retentive Caps (White)

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

Ref.C
RCWP

Retentive Caps (Violet)

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

Ref.C
RCVP

Retentive Caps (Pink)

- Pink cap(1.2kgf) - For refill (5ea/pack).

Ref.C
RCPP

Retentive Caps (Yellow)

- Yellow cap(0.6kgf) - For refill (5ea/pack).

Ref.C
RCYP

Retentive Caps (Black)

- For laboratory

Ref.C
RCBP

➲ Components for Meg-Rhein Abutment

Stainless Impression Coping (Pick-Up)

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

Ref.C
044CAIN

Lab Analog

Ref.C
PLA

Caps and Clips Extractor tool

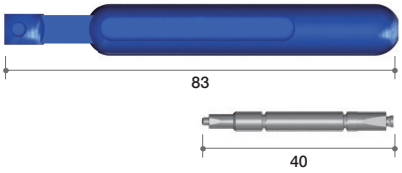
- Retentive Cap removal tool.

Ref.C
491EC

Retentive Cap Insertion Tool

- Retentive Cap insertion tool.

Ref.C
085IAC



AnyRidge Kit

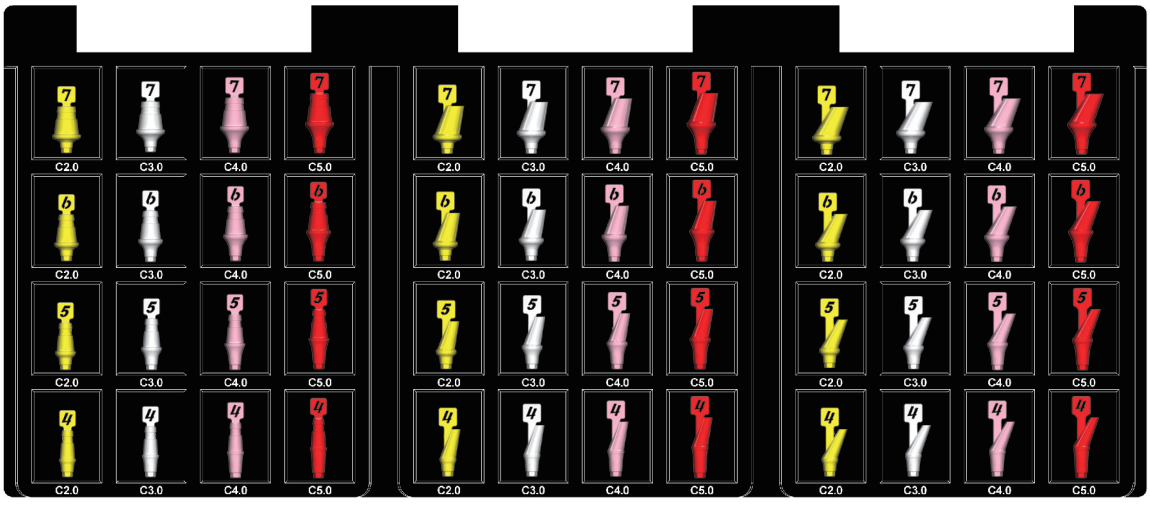
I. Abutment Selection Guide Kit

Ref.C

KANASG3000

For the best selection of abutments.

- Colors indicate different cuff heights (Yellow : 2mm, White : 3mm, Pink : 4mm, Red : 5mm).
- Store 2 pieces in each container.
- Autoclavable to sterilize.



Straight type
(EZ Post & Solid Abutment select)

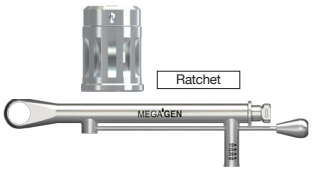
Angle type(15°)
(Angled Abutment select)

Angle type(25°)
(Angled Abutment select)

Product coordinator : Hyun Wook An, rnd_dir@imegagen.com

II. Surgical Kit_Standard Type

Ref.C
KARIN3003



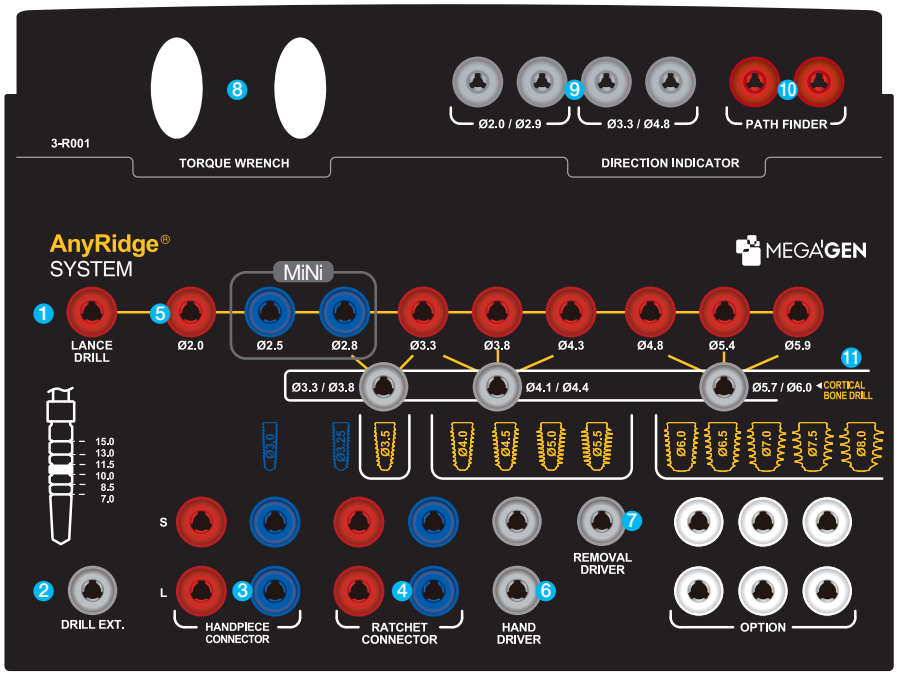
❽ Torque Wrench & Adapter

❾ Direction Indicator (for osteotomy socket)

❿ Path Finder (for pre-placed fixtures)

❶ Lance Drill

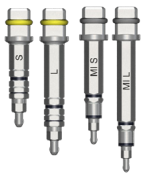
❷ Drill Extension



⓫ Cortical Bone Drill

❸ Handpiece Connectors

❹ Ratchet Connectors



❺ Marking Drills

❻ Hand Driver

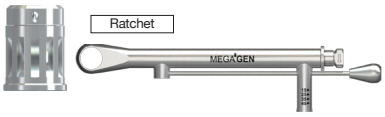
❼ Abutment Removal Driver

II. Surgical Kit_Full Type

Ref.C

KARIN3001

Easier and safer to drill for the depth as you need with the stopper drills.



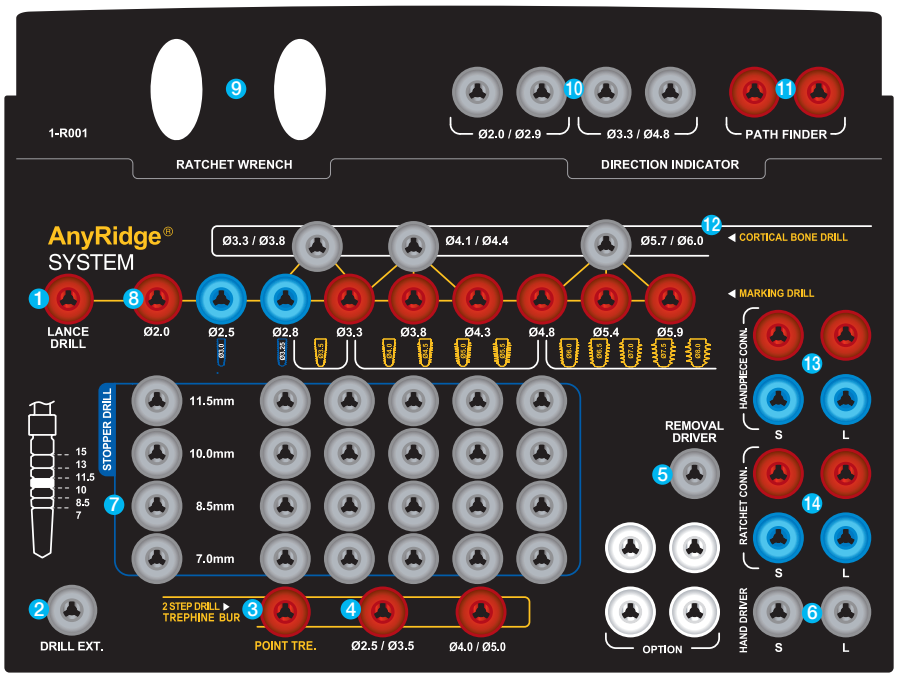
❾ Torque Wrench & Adapter

❿ Direction Indicator (for osteotomy socket)

⓫ Path Finder (for pre-placed fixtures)

❶ Lance Drill

❷ Drill Extension



❸ Point Trepine Bur

❹ Trepine Bur

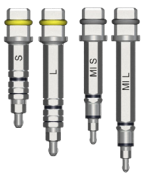
❺ Abutment Removal Driver

❻ Hand Driver

⓬ Cortical Bone Drill

⓭ Handpiece Connectors

⓮ Ratchet Connectors

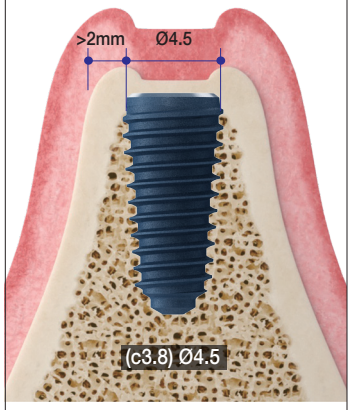


⑦ Stopper Drills

⑧ Marking Drills

II. Surgical Kit

1. Customized drilling sequence concept



A customized drilling sequence is created by the clinician based on the core size according to the occlusal force and thread-depth according to the bone density.

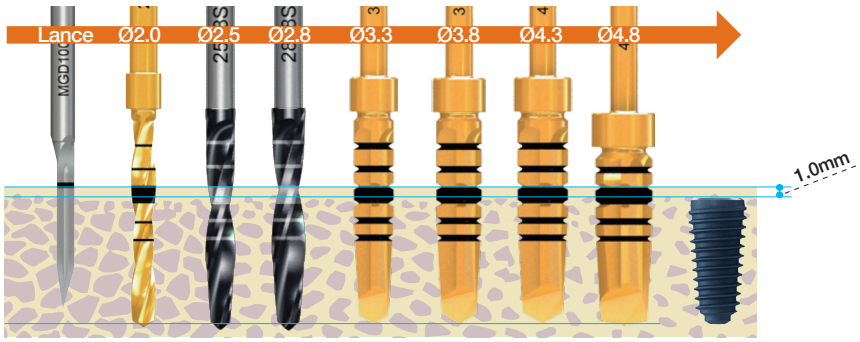
When understanding the benefits of AnyRidge [guaranteed high initial stability in any case], the drilling sequence can be customized for the desired initial stability..

EX) Core Ø3.8

- AnyRidge is easier to place than conventional implant systems due to its KnifeThread design.
- The super self-tapping KnifeThread of AnyRidge implants means larger implants can be placed according to the bone density with minimal drilling thanks to the various thread depths for each core diameter.

Various Thread Depth

(c3.8) Ø4.5 x 11.5mm implant



Hard bone

- Before placing, drill sequentially up to a drill size 1mm larger than the core diameter of the fixture selected based on the bone width and occlusal force, while the fixture diameter (thread depth) is selected according to bone density.
- If a fixture gets stuck in hard bone leaving more than 1mm above the crest, use the next drill size and drill to a depth of 7mm, then place the implant according to the “One Millimeter Rule”.

Soft bone

- In a soft bone density, drill to the core size of the selected implant and then place the implant.

Molar extraction socket

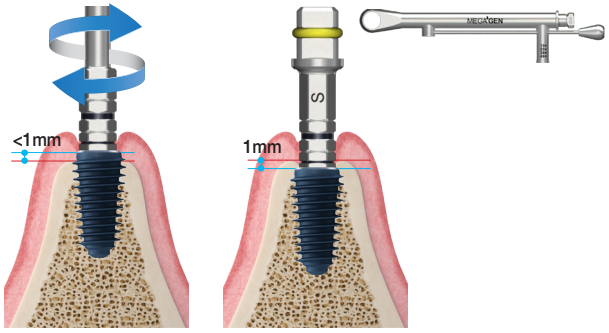
- Use a 4.8mm core and select the fixture diameter (thread depth) depending on the size of the extraction socket and bone density.

▸▸ Check points for best results

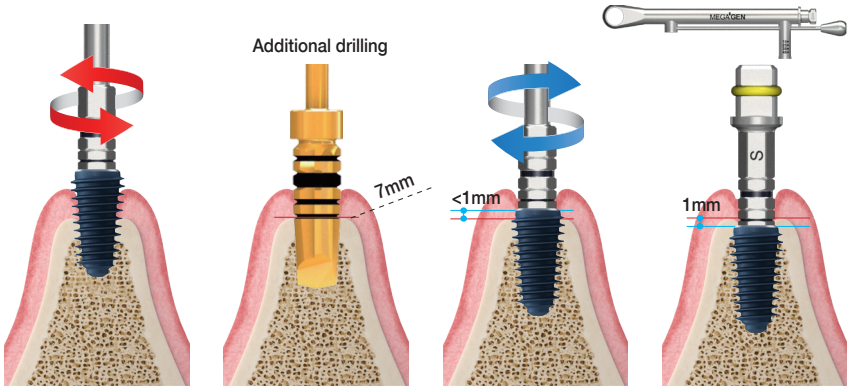
Point #1

Consider **'One millimeter Rule'** to avoid any sticking

1. Due to the extra strong initial stability of AnyRidge fixtures, they can get stuck during placement, especially in mandibular hard bone. The best and easiest way to avoid this is to remember the 'One Millimeter Rule'. A full understanding of the AnyRidge system will allow clinicians to customize their drilling sequence to achieve the preferred initial stability. The 'One Millimeter Rule' is simple: first, use an implant engine to place the implant 1mm above the crest bone (recommended torque: 40Ncm), then use a ratchet wrench to position the implant platform 1.0mm below the crest bone.



2. If a fixture gets stuck in hard mandibular bone leaving more than 1mm above the crest, remove the fixture using a Ratchet Wrench instead of screwing further with excessive torque. Next, using a drill one size larger than the previous drill, drill up to the 7mm mark and place another implant the same size as the removed implant (recommended torque: 40Ncm). The depth of the additional drilling can be modified depending on the bone density.

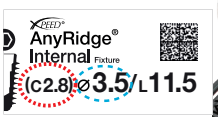


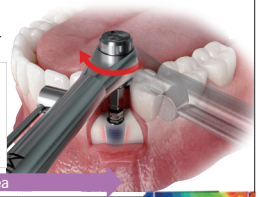
Point #2

As too much torque can cause fatigue, **≦50Ncm** is strongly recommended

Over-torquing can cause irreversible damage to connection &/or linear cracking of fixture wall.

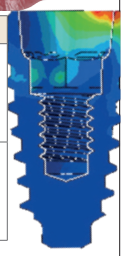
For smaller diameter AnyRidge [≦3.5mm (2.8mm core)], recommended insertion torque is ≦50Ncm to avoid any structural damage to fixture.





Elastic Area | Plastic Area

	35NCm	50NCm	100NCm	150NCm	200NCm
AnyRidge (ø3.5)	411.0MPa	443.6MPa	1041.4MPa	1298.0MPa	1343.5MPa
AnyOne Internal (ø3.5)	588.9MPa	687.7MPa	1208.4MPa	1360.4MPa	1376.2MPa



Material: Titanium Gr4CW (fixture) / Tensile strength: 1258.63MPa / Yield strength: 1010.34MPa

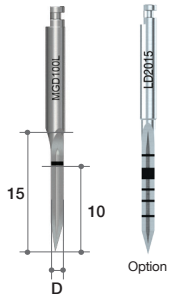
Surgical Kit Components (Continued)

Lance Drill

- Useful to make an indentation on cortical bone to confirm the exact drilling location.

Diameter	Type	Ref.C
Ø2.0	Long	MGD100L
	Short	*LD2015
	Long	*LD2025
	Ultra-Long	*LD2030

(*) Separate sales item.



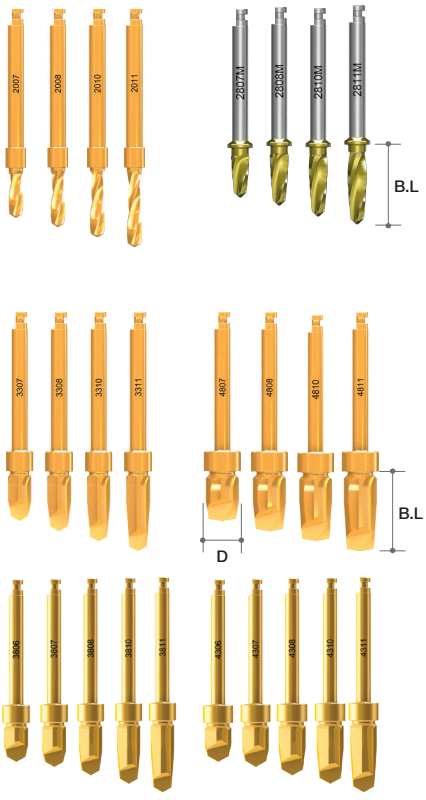
Marking Drill

- Each drill has calibrations from 7.0 to 18.0mm. (TANSDF4815, TANSDF5415, TANSDF5915 have calibrations up to 15.0mm)
- Easy to recognize by dual marking systems. (Groove and laser marking)

Diameter	Blade Length (mm)	Ref.C
Ø2.0	18	TANTDF2018
Ø2.5		SD2518S
Ø2.8		SD2818S
Ø3.3		TANSDF3318
Ø3.8		TANSDF3818
Ø4.3		TANSDF4318
Ø4.8	15	TANSDF4815
Ø5.4		TANSDF5415
Ø5.9		TANSDF5915

Stopper Drill

Diameter	Blade Length (mm)	Ref.C
Ø2.0	7	TANTDF2007
	8.5	TANTDF2008
	10	TANTDF2010
	11.5	TANTDF2011
Ø2.8	7	SD2807M
	8.5	SD2808M
	10	SD2810M
	11.5	SD2811M
Ø3.3	7	TANSDF3307
	8.5	TANSDF3308
	10	TANSDF3310
	11.5	TANSDF3311
Ø3.8	7	TANSDF3807
	8.5	TANSDF3808
	10	TANSDF3810
	11.5	TANSDF3811
Ø4.3	7	TANSDF4307
	8.5	TANSDF4308
	10	TANSDF4310
	11.5	TANSDF4311
Ø4.8	7	TANSDF4807
	8.5	TANSDF4808
	10	TANSDF4810
	11.5	TANSDF4811



Point Trephine Bur

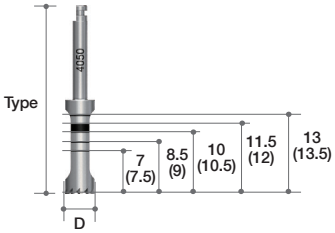
Diameter	Ref.C
Ø5.0 (In.Ø4.0)	SPTB4050

Trephine Bur

- Minimizes the drilling steps needed, especially for wider fixtures.
- Helpful for collecting autogenous bone.
- Useful for removing failed and 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 the drill shaft represent the inside / outside diameter of Trephine Burs.

Diameter	Type	Ref.C
Ø3.5 (in Ø2.5)	Short (32mm)	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 (38mm)	*TANTBE2535
Ø5.0 (in Ø4.0)		*TANTBE4050
Ø6.0 (in Ø5.0)		*TANTBE5060
Ø7.0 (in Ø6.0)		*TANTBE6070

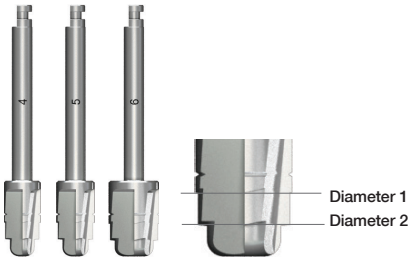
(*) Separate sales item.
3.5, 5.0 Trephine Bur are included in Surgical kit.



Cortical Bone Drill

- Removes cortical bone and enlarges osteotomy socket especially at hard bone.
- Similar function with countersink drill of other systems.
- Each drill has two steps of diameter for convenience.

Diameter	Ref.C
Ø3.5	TANCDL3500
Ø4.0~ Ø5.5	TANCDL4055
Ø6.0~ Ø8.0	TANCDL6080

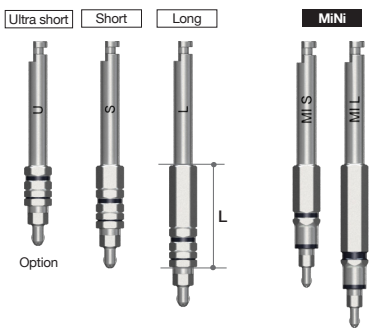


Handpiece Connector

- Delivers torque for the placement of a fixture with a handpiece.
- Easy and secure pick-up and delivery.
- Used to place an implant without a mount.
- Marks on the shaft can indicate the position of fixture platform, especially in flapless surgery.

Length (mm)	Type	Ref.C
5	Ultra short	*TANHCU
10	Short	TANHCS
15	Long	TANHCL
10	Short (MiNi)	HCS17
15	Long (MiNi)	HCL17

(*) Separate sales item.



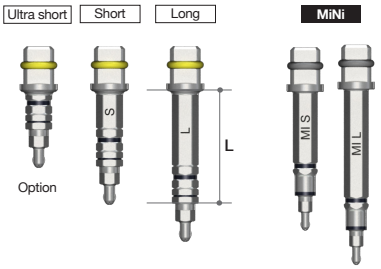
Surgical Kit Components

Ratchet Connector

- Delivers torque for the placement or removal of a fixture with a Ratchet Wrench.
- Secure a Ratchet Extension or Torque Wrench to a fixture before exerting force.
- Too much torque force can result a damage to the hex of a fixture.
- Marks on the shaft can indicate the position of fixture platform, especially for flapless surgery.

Length (mm)	Type	Ref.C
6	Ultra short	*TANREU
10	Short	TANRES
15	Long	TANREL
15	Short(MiNi)	RCS17
20	Long (MiNi)	RCL17

(*) Separate sales item.

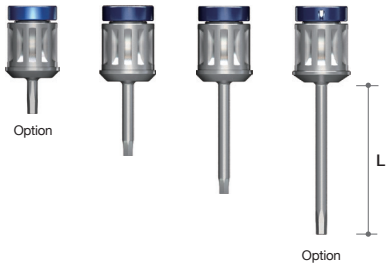


Hand Driver (1.2 Hex)

- Used for all Cover Screws, all Abutment Screws and all Healing Abutments.
- Available in 4 lengths for convenience.
- Hand Driver can be directly inserted into the 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
30	Extra-long	*TCMHDE1230

(*) Separate sales item



Abutment Removal Driver

- Used to remove final abutment ; use after removing Abutment Screw.
- Insert straight into the abutment and rotate clockwise.
- Long Abutment Removal Driver is for disconnecting an abutment with a cemented crown.

Length (mm)	Ref.C
17.5	TANMRD18
25.0	*TANMRD25

(*) Separate sales item.

Drill Extension

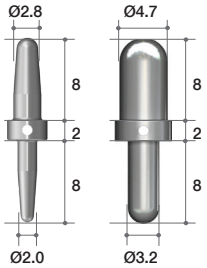
- Extends drills & other handpiece tools.
- No more than 45Ncm torque : Can be distorted when too much force is applied.

Ref.C
MDE150

Direction Indicator

- Confirms drilling direction and location during drilling.
- Checks drilling position.

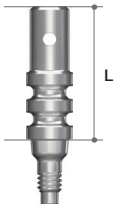
Length (mm)	Ref.C
Ø2.0 / Ø2.8	MDI100
Ø3.2 / Ø4.7	MDI3348



Path Finder

- After placing a fixture, a Path Finder can be connected to guide parallel for the next implant.
- Gingival depth can be measured with the grooves especially for flapless surgeries.

Length (mm)	Ref.C
10	TANPFF3580

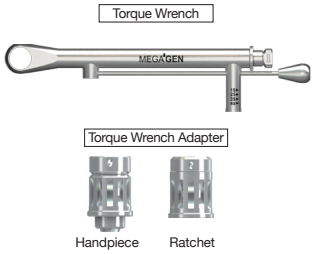


Torque Wrench & Adapter

- Torque range: 15Ncm to 70Ncm
- Use for implant placement & final tightening of abutment screw

Type	Ref.C
Torque Wrench (~70Ncm)	*TW70
Torque Wrench (~45Ncm)	*MTW300A
Torque Wrench Adapter (Handpiece)	*TTAI100
Torque Wrench Adapter (Ratchet)	*TTAR100

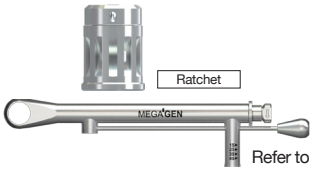
(*) Separate sales item



III. Prosthetic Kit

A kit with all kinds of driver that are needed for prosthetics.

Ref.C
KANPK3000



Refer to Page. 117

❻ Torque Wrench & Adapter

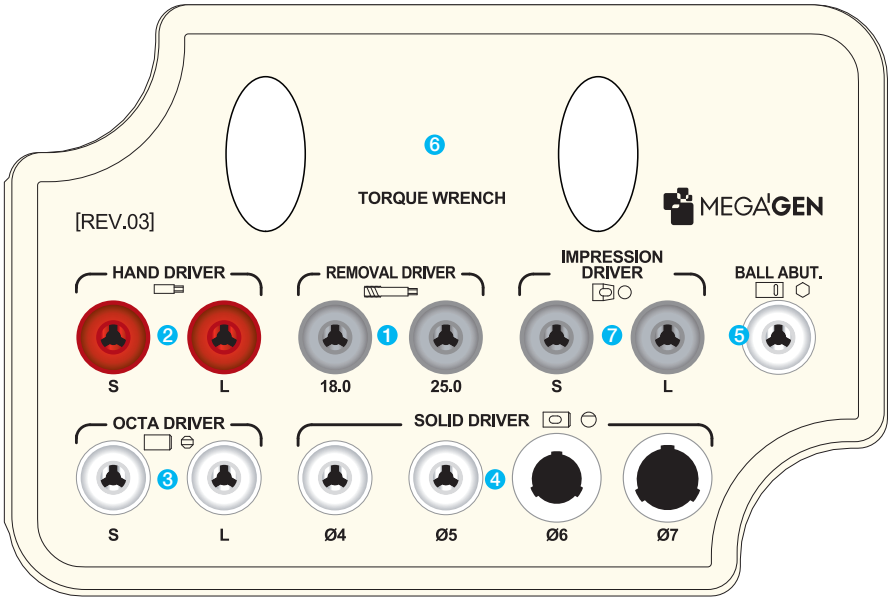
❼ Transger Impression Coping Driver

❶ Abutment Removal Driver

Refer to Page. 116

❷ Hand Driver

Refer to Page. 116



❸ Octa Driver

❹ Solid Driver

❺ Ball Driver

➲ Prosthetic Kit Components

Solid Driver

- For the 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 Driver

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

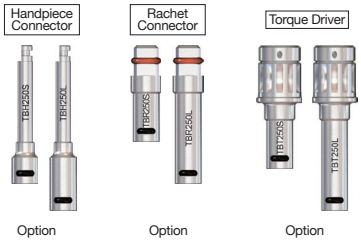
Length (mm)	Ref.C
7	MOD300S
13	MOD300L

Ball Driver

- For seating of the Ball Abutment into the fixture.
- Can connect to a Handpiece, Ratchet or Torque Wrench.
- Available in long and short.

Type	Ref.c
Handpiece Connector(Short)	*TBH250S
Handpiece Connector(Long)	*TBH250L
Ratchet Connector(Short)	*TBR250S
Ratchet Connector(Long)	*TBR250L
Toque Driver(Short)	TBT250S
Toque Driver(Long)	*TBT250L

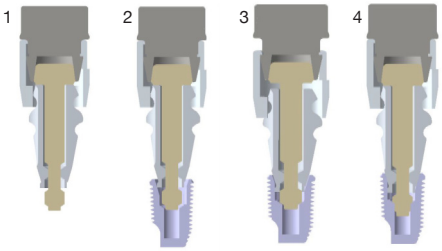
(*) Separate sales item.



Impression Coping Driver (Transfer)

- For transfer type of 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



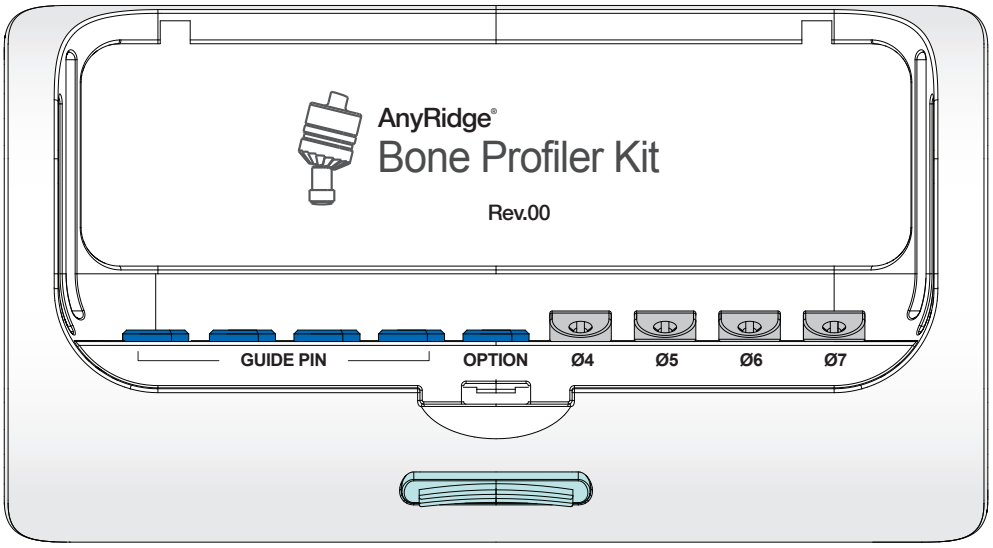
1. Connect Impression Coping and Impression Driver together
2. Adjust Connection with a Fixture by turning a Holder clockwise.
3. Push the Holder and put the Impression Coping into the Fixture.
4. Turn the Driver clockwise to ensure connection of the Impression Coping and Fixture.

IV. Bone Profiler Kit

Ref.C
KARBP3000

Removes the overhanged bone around a fixture to allow adequate seating of a Healing Abutment or a Prosthetic Abutment.

- Place a Guide Pin into a fixture and choose a Bone Profiler which fits with the situation.
- Four different sizes of bone profiler and four guide pins are included in the kit.

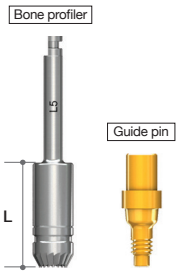


Bone Profiler

- Guide Pin(TANPGF3305) included.

- Each bone profiler can be purchased separately for refill.
- Each pakage includes a bone profiler and a guide pin.

Profile Diameter	Length (mm)	Ref.C
Ø4	13	TANBPL40G
Ø5		TANBPL50G
Ø6	8	TANBPS60G
Ø7		TANBPS70G



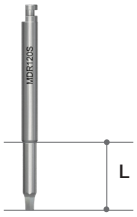
V. Optional components

- not included in the surgical kit
- can be purchased separately and placed into the 'option' spaces provided in the surgical kit

Right Angle Driver Tip

- Used for all Cover Screws, all abutment screws and all Healing Abutments.
- Hex tip can withstand 35-45Ncm of torque without distorting.

Length(mm)	Type		Ref.C
4	Ultra-short	Hex 1.2	MDR120SS
10	Short		MDR120S
15	Long		MDR120L
20	Extra Long		MDR120EL



Lindermann Drill

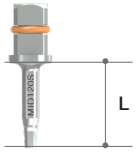
- Cross cut on the drill.
- Can correct the path during drilling.

Diameter	Ref.C
Ø2	TEEL200M

Insert Driver

- Used for all Cover Screws, all abutment screws and all Healing Abutments.
- Hex tip can withstand 35-45Ncm of torque without distorting.

Length(mm)	Type		Ref.C
10	Short	Hex 1.2	MID120S
15	Long		MID120L



Hand Tap

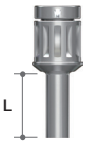
- Useful when the internal screw of a fixture is damaged.
- Retapping damaged threads.
- Need to be patient and force-controlled.

Type	Ref.C
M1.8	THT180L

Multi-unit Driver (2.0 Hex)
(For Multi-unit Abutment)

- For the seating & tightening of multi-unit Abutment (Straight type)

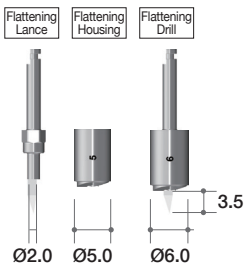
Length(mm)	Type	Ref.C
10	Short	TCMMUDS20
15	Long	TCMMUDL20



Flattening Drill

- In the case of irregular bone, stopper drill can be drilled in precise depth by flattening the bone.
- Flattening Lance and Housing are connected together. Two types of Housing diameters (Ø5.0 & Ø6.0) are composed in accordance with the size of final drill diameter.
- Ø5.0 = Stopper Drill Ø2.0~ Ø4.3
  Ø6.0 = Stopper Drill Ø4.8~ Ø5.4
- Formation of boundary through housing will guide the next drilling location of fixture.

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



Manual Inserter

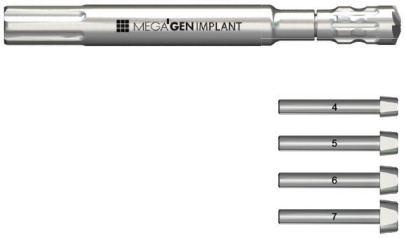
- Specially designed for manual placement of AnyRidge fixture.
- Especially useful at immediate implant placement on maxillary anterior.
- The tip has same structure with the hand-piece connector.

Ref.C
TANMI

Reamer Drill & Center Pin

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

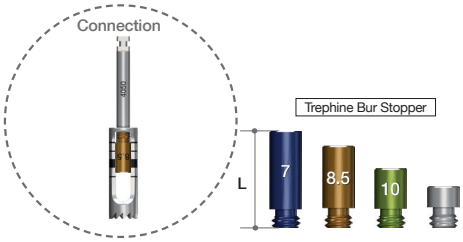
Diameter	Type	Ref.C
Ø10.0	Reamer Drill	TANRD
Ø4.0	Center Pin	TANRDJ40
Ø5.0		TANRDJ50
Ø6.0		TANRDJ60
Ø7.0		TANRDJ70



Trephine Bur Stopper

- Controls the depth of trephination with a Stopper placed into the Trephine.
- Especially useful in cases with limited availabe bone from important anatomy.

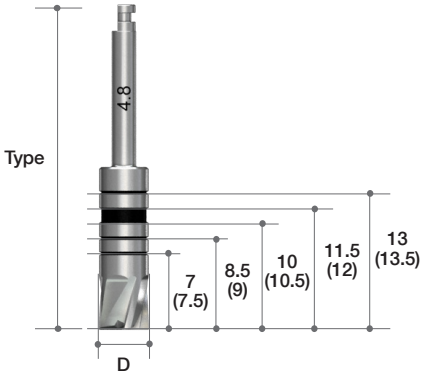
Type	Ref.C
7.0	TANTSF2307
8.5	TANTSF2308
10.0	TANTSF2310
11.5	TANTSF2311



Bottom Drill

- It removes remaining bone in osteotomy socket after trephine drilling.
- It imprints the sizes of fixtures, for example 7, 8.5, 10, 11.5 and 13mm, by 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



Ratchet Wrench

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

Ref.C
MRW040S

R2 Full Surgical KIT

Ref.C

KAGIN3000

- If you only use a specific system, corresponding system's full kit can be provided.
- R2 full surgical kit is composed with all of drills and components that are needed for the Digital Guided Surgery which uses R2GATE Guide™ after R2GATE™ diagnosis. It helps to actualize minimally invasive surgery and makes exact clinical result as the diagnosis.

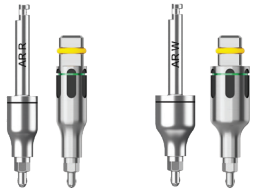
⑤ Ratchet Wrench

⑥ Bone Profiler

This is used to minimize the interference of the crestal bone when connecting ZrGEN Abutment, [Used before placing the fixture / Recommended RPM 600 ~1000]

⑦ Implant Carrier

: Handpiece type
: Ratchet type



R – AnyRidge Regular (ø3.5 ~ø4.5)

W – AnyRidge Wide (ø5.0 ~ø6.0)

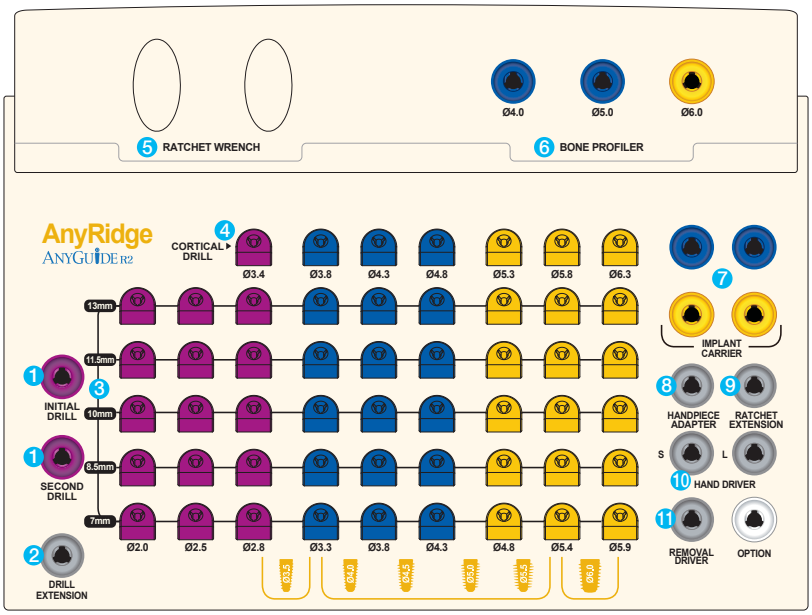
⑧ Carrier-Handpiece Adapter

⑨ Carrier Extension

① Initial Drill

Initial Drill Second Drill

Drilling to make the initial drill path

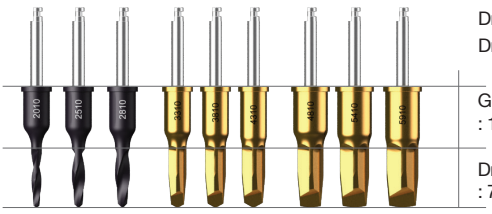


② Drill Extension

⑩ Hand Driver

⑪ Abutment Remover Driver

③ Guide Stop Drill

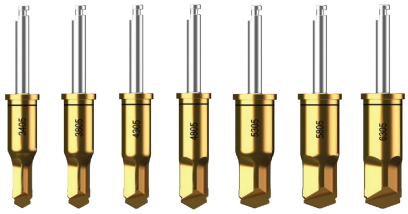


Drill Diameter : Ø2.0 ~ Ø5.9
Drill Length : 7.0 ~ 13.0mm

Guide length
: 13.5mm

Drilling length
: 7.0 ~ 13.0mm

④ Cortical Bone Drill



In type I or II bone, crestal bone is partly reduced to lower the pressure against the fixture during placement.

Product coordinator : Jung Ho Nam, rnd_implant1@imegagen.com

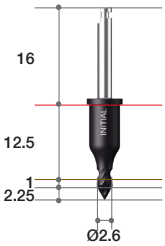
Components for R2GATE Full Surgical Kit (Continued)

- If you only use a specific system, corresponding system's full kit can be provided.
- R2 full surgical kit is composed with all of drills and components that are needed for the Digital Guided Surgery which uses R2 Guide™ after R2GATE® diagnosis. It helps to actualize minimally invasive surgery and makes exact clinical result as the diagnosis.

Initial Drill

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

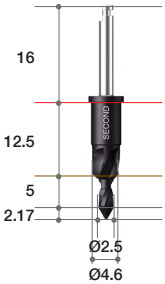
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.6	Ø5.0	1.0	R2ID2601



Second Drill

- Unique step – drilling (from Ø2.0 to Ø4.6) is used to flare out upper cortical bone of osteotomy
- This helps with rest of drilling procedure & abutment connection
- With hard bone, if 2nd drilling is disturbed by thick cortical bone, stop & try again before fixture placement
- Recommended drilling speed: 300 ~ 800 RPM with copious irrigation

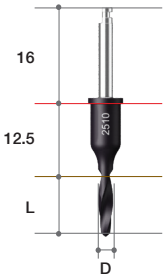
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.5	Ø5.0	5.0	R2SD2505



Stopper Drill

- Universal drills consist of Ø2.0, Ø.2.5, Ø2.8 diameter to enlarge the osteotomy gradually.
- The length of drill are designed as 7.0, 8.5, 10, 11.5,13mm for most common length of implant system.
- Recommended drilling speed range is 500 ~ 800 RPM with copious irrigation.

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.0	Ø3.5	6.5	AGSD2007
		8.0	AGSD2008
		9.5	AGSD2010
		11.0	AGSD2011
		12.5	AGSD2013
Ø2.5		6.5	AGSD2507
		8.0	AGSD2508
		9.5	AGSD2510
		11.0	AGSD2511
		12.5	AGSD2513
Ø2.8		6.5	AGSD2807
		8.0	AGSD2808
		9.5	AGSD2810
		11.0	AGSD2811
		12.5	AGSD2813



Bone Profiler

- Recommended drilling speed is 300 ~ 800 RPM.

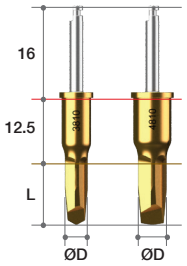
Diameter	Guide Diameter	Ref.C
Ø4.0	Ø5.0	AGBP40
Ø5.0		AGBP50
Ø6.0	Ø6.5	AGBP60

Stopper Drill

- Recommended drilling speed is 300 ~ 800 RPM.

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.3	Ø5.0	6.5	ARSD3307
		8.0	ARSD3308
		9.5	ARSD3310
		11.0	ARSD3311
		12.5	ARSD3313
Ø3.8		6.5	ARSD3807
		8.0	ARSD3808
		9.5	ARSD3810
		11.0	ARSD3811
		12.5	ARSD3813
Ø4.3		6.5	ARSD4307
		8.0	ARSD4308
		9.5	ARSD4310
		11.0	ARSD4311
		12.5	ARSD4313

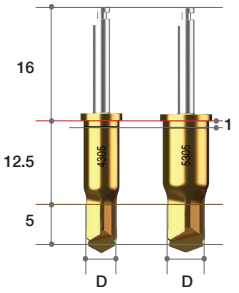
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø4.8	Ø6.5	6.5	ARSD4807
		8.0	ARSD4808
		9.5	ARSD4810
		11.0	ARSD4811
		12.5	ARSD4813
Ø5.4		6.5	ARSD5407
		8.0	ARSD5408
		9.5	ARSD5410
		11.0	ARSD5411
		12.5	ARSD5413
Ø5.9		6.5	ARSD5908
		8.0	ARSD5907
		9.5	ARSD5910
		11.0	ARSD5911
		12.5	ARSD5913



Cortical Bone Drill

- Recommended drilling speed : 300 ~ 800 RPM

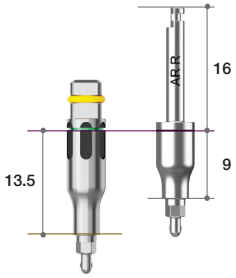
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.4	Ø5.0	5.0	R2CD3405
Ø3.8			R2CD3805
Ø4.3			R2CD4305
Ø4.8			R2CD4805
Ø5.3	Ø6.5		R2CD5305
Ø5.8			R2CD5805
Ø6.3			R2CD6305



Implant Carrier

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture in-sertion. choose the one-step under size of tab to protect from enlarge- ment of osteotomy.
- Recommended insertion torque and speed is 45 ~ 50Ncm, under 40 RPM.

Connection	Guide Diameter	Type	Ref.C
2.3 Hex	Ø5.0	Ratchet	ICRH2324
	Ø6.5		ICWH2324
	Ø5.0	Handpiece	ICRH2324H
	Ø6.5		ICWH2324H



Carrier-Handpiece Adapter

- Useful to use the handpiece for the implant placement following initial delivery of a fixture with a fixture carrier.

Diameter	Ref.C
5.0	AGHA

Carrier Extension

- To extend the length of implant carrier.

Diameter	Ref.C
4.0	MRE400S

Components for R2GATE Full Surgical Kit

Drill Extension

- No more than 35Ncm torque : May distorted when excessive force is applied.
- Extends drills & other handpiece instruments.

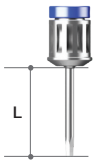
Ref.C
MDE150

Hand Driver (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 the Torque Wrench without using an adaptor.
- Hex tip can with stand 35-45Ncm of torque without distorting.

Length(mm)	Type	Ref.C
5	Ultra-short	*TCMHDU1200
10	Short	TCMHDS1200
15	Long	TCMHDL1200
20	Extra-long	*TCMHDE1200
30	Extra-long	*TCMHDE1230

(*) Separate sales item



Ratchet Wrench

- Used to exert more force than the Handpiece.
- No bearing system : No breakage and no corrosion problems.
- Arrow laser marking indicates direction of force.

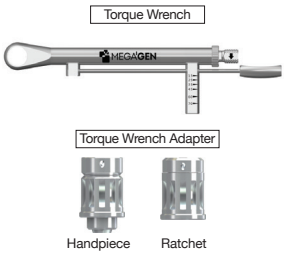
Ref.C
MRW040S

Torque Wrench & Adapter

- Use for implant placement & final tightening of abutment screw
- Torque range: 15Ncm to 70Ncm

Type	Ref.C
Torque Wrench (~70Ncm)	*TW70
Torque Wrench (~45Ncm)	*MTW300A
Torque Wrench Adapter (Handpiece)	*TTAI100
Torque Wrench Adapter (Ratchet)	*TTAR100

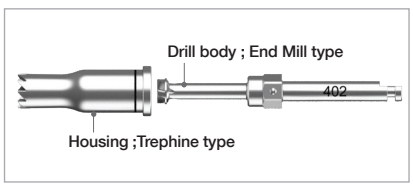
(*) Separate sales item

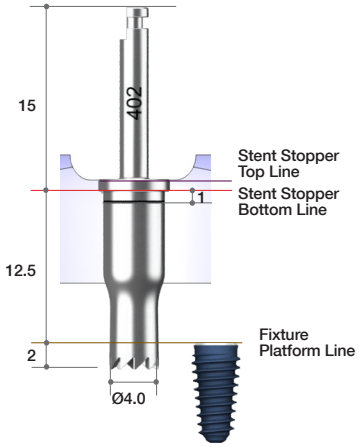


Narrow Crest Drill

- It is used when fixture will be slantly implanted or to flat the sloped bone surface of narrow ridge to prevent any slips during drilling.
- Design as 2-piece: drill body and housing
- Can be disassemble. Easy to clean and remove bone chips
- Can harvest autogenous bone if it is used after soft tissue

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





Anchor Kit

For an edentulous case or free end case, R2 Guide™ is fixed with Anchor Pins specially designed for stability of the R2 Guide™.

Ref.C
KAGAS3000

You can order your own Anchor kit for your favorite implant system

❶ Torx Tip

❷ Tip Driver

❸ Anchor Pin

❹ Stent Anchor

M1.8

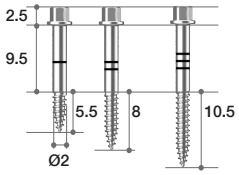
Product coordinator : Jung Ho Nam, rnd_implant1@imegagen.com

Components for Anchor Kit

Anchor Pin

- Distinguish the length size by the numbers of Line marking
- Connect through Trox Tip

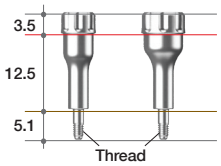
Diameter	Length(mm)	Marking Line	Ref.C
Ø2.0	5.5	1	TCMACP2015
	8.0	2	TCMACP2018
	10.5	3	TCMACP2020



Stent Anchor

- Connect through Hand & Hand Driver

Thread	Guide Diameter	Ref.C
M1.8	Ø5.0	AGSAR18
	Ø6.5	AGSAW18



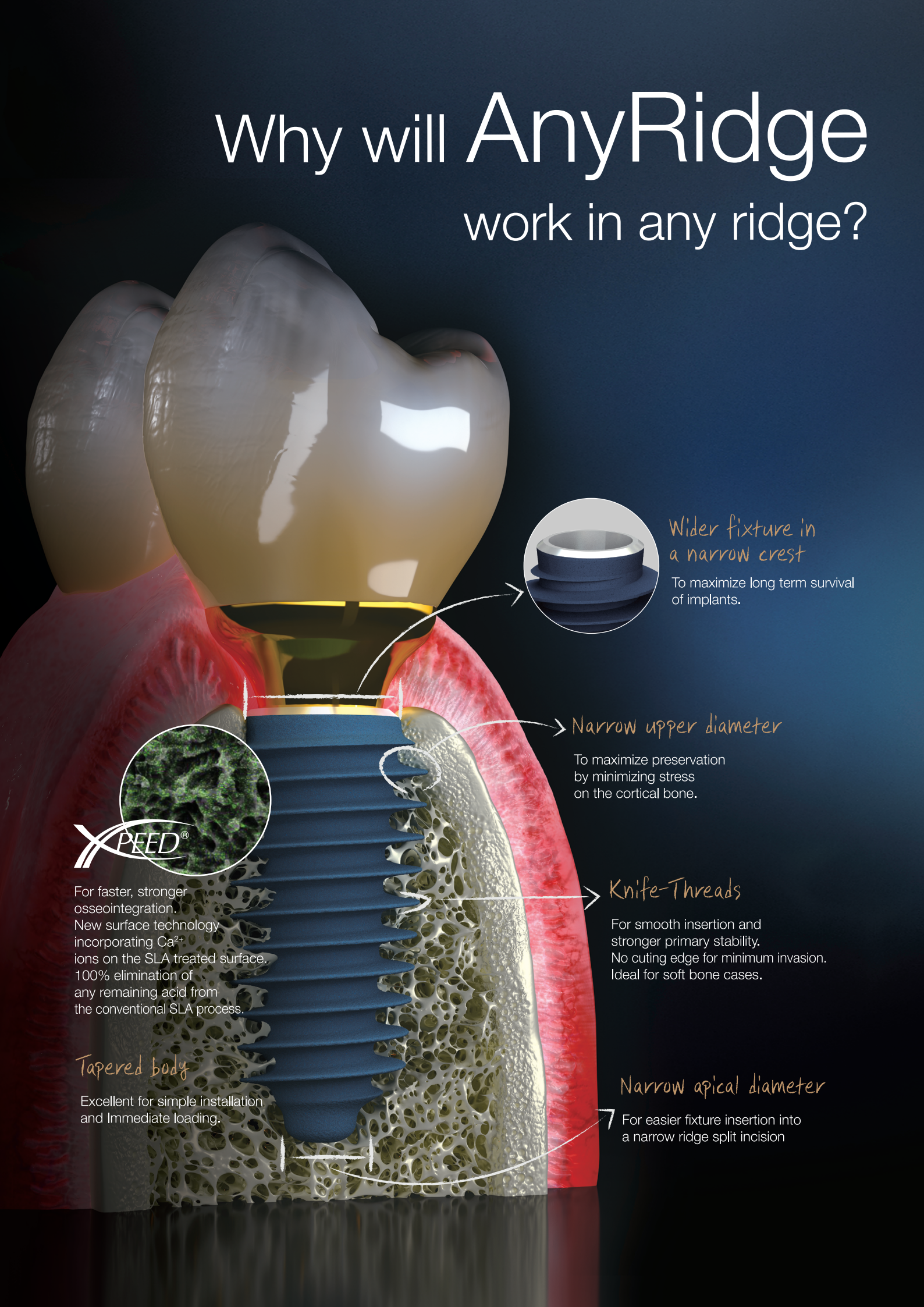
Torx Tip

Length(mm)	Ref.C
80	AGTT80

Tip Driver

Ref.C
TD

Why will AnyRidge work in any ridge?



Wider fixture in a narrow crest

To maximize long term survival of implants.

Narrow upper diameter

To maximize preservation by minimizing stress on the cortical bone.

Knife-Threads

For smooth insertion and stronger primary stability.
No cuting edge for minimum invasion.
Ideal for soft bone cases.

Narrow apical diameter

For easier fixture insertion into a narrow ridge split incision

XPEED®

For faster, stronger osseointegration.
New surface technology incorporating Ca^{2+} ions on the SLA treated surface.
100% elimination of any remaining acid from the conventional SLA process.

Tapered body

Excellent for simple installation and Immediate loading.

Clinical Cases

Clinical Case 1

- Courtesy of Dr. Kwang-Bum Park

AnyRidge implant has excellent surface treatment which can be osseointegrated at this extreme case of bone defect.

Fig 1. This patient was 56 years old male patient and had a chief complaint of chewing difficulty on the left first mandibular molar due to periodontitis. On the panoramic radiograph, the tooth was floated with complete bone loss to the apex, and there was not enough bone to get initial stability for implant placement at the apex above mandibular nerve. So I decided to extract the tooth and wait for 4 months for regeneration of the socket.

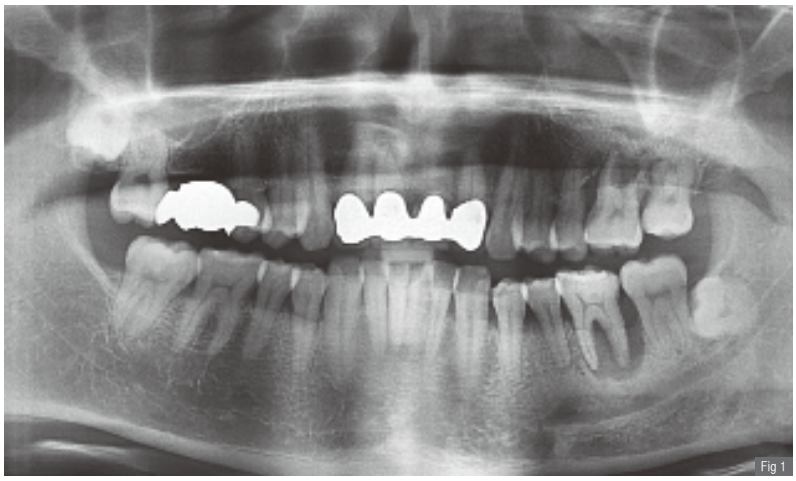


Fig 2. The patient came back to my office after 4 months. Healing appeared good enough clinically, but the panoramic view still showed large socket defect. In many cases like this, we can expect some amount of bone filled in the socket which can allow minimal initial stability for implant placement.

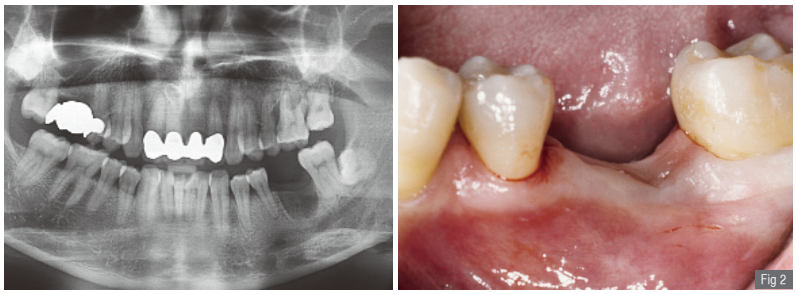


Fig 3. When the flap was opened, I was very embarrassed that bone regeneration did not occur in the socket. None of remaining bone could be used for implant fixation.

Fig 4. A widest AnyRidge implant 8.0mm was placed on the mesial wall of extraction socket, but there was no initial stability. This trial was quite heroic treatment, but there was no other option except this because he spent many hours for this surgery.

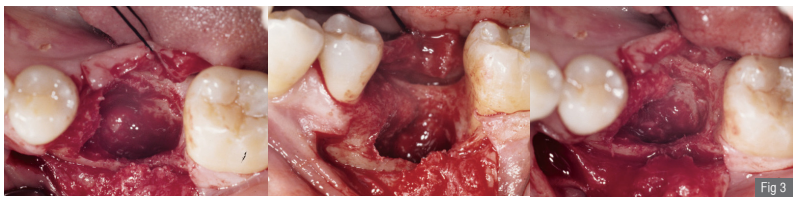


Fig 5. The mixture of Allograft (Mega-Oss) and Synthetic bone (Bone Plus) was placed into the remaining socket defect and a collagen membrane was covered. Then primary closure was made with incision releasement on the periosteum.

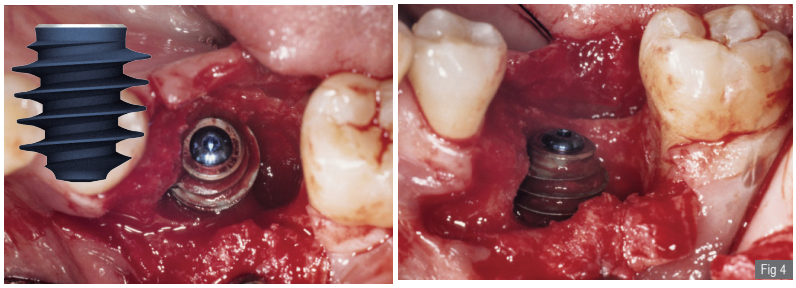


Fig 6. On the panoramic view after surgery, we could find that none of the fixture was engaged with remaining bone, so it had more than 1.6mm gap from the tip to the depth of knife threads. I worried about the bone filling and success of the osseointegration on this fixture.

Fig 7. However, I was surprised with the hard cortical bone regeneration over the cover screw when I did the second stage surgery with the Biolaser.

Fig 8. On the intraoral radiograph taken several weeks after second surgery, we could see the fully regenerated bone into the bottom of thread depth.

Fig 9. The patient came back to our office to get one more implant on the maxillary upper molar after 2 years from the first implant surgery. The regenerated bone was matured and showed very stable crestal bone on the intraoral radiograph.

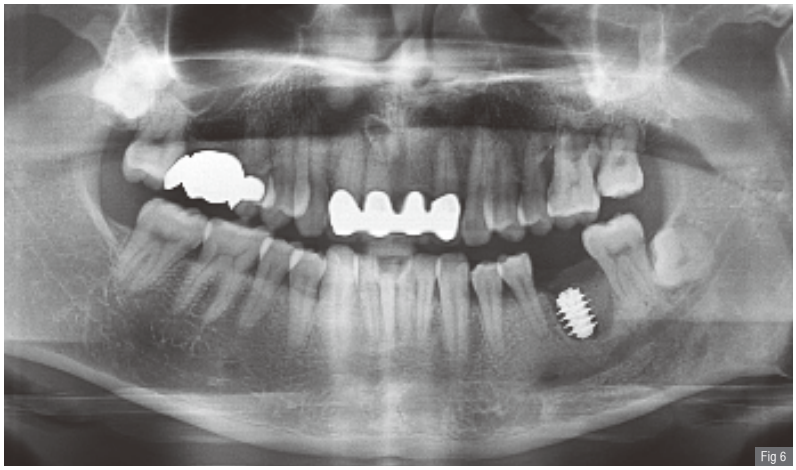


Fig 6


Fig 7

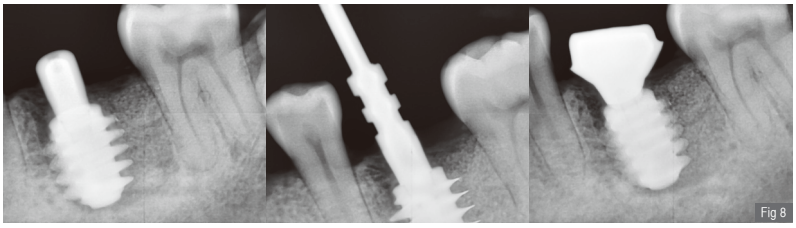


Fig 8

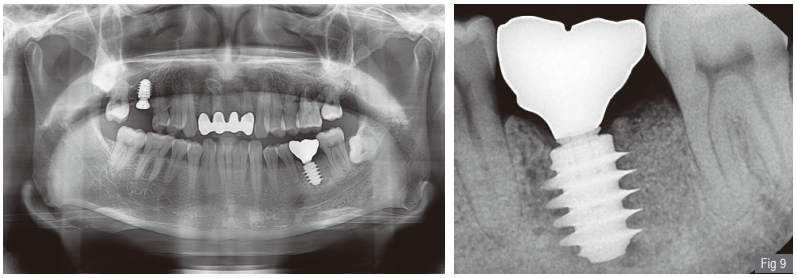


Fig 9

Clinical Case 2

- Courtesy of Dr. Kwang-Bum Park

Advantage of fuse abutment with AnyRidge implant for immediate loading in upper fully edentulous case

Fig 1. An 80-year-old female patient presented with discomfort related to her upper teeth. About 10 years previously she underwent implant surgery in the mandible and received temporary teeth immediately as the bone density was sufficient for immediate loading. The patient requested a treatment plan for the upper arch that would give her immediate teeth.

Fig 2. Clinical photos before surgery. The patient had no discomfort or complaints related to her mandibular implants. Plus her hygiene control was very good for maintaining healthy peri-implant tissue.

Fig 3. All the remaining teeth were extracted. As shown, some teeth had severe periodontitis and some had decay at the cervix of the tooth. Drilling up to 2.9 mm was conducted at each implant site and eight 3.5×15mm implant fixtures were placed using a minimal flap design. All the fixtures showed excellent initial fixation, and the immediately-placed implants only had small socket defects.

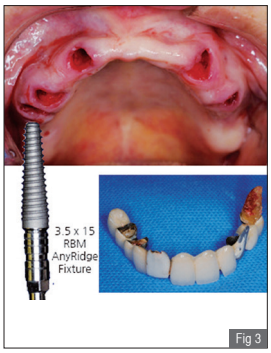


Fig 4. Eight fuse abutments were connected and the flaps were sutured to create a tight sealing against the fuse abutments

Fig 5. The fuse abutments were prepared using a high speed handpiece for a temporary bridge that was already made before the implant surgery

Fig 6. Panoramic scan taken immediately after surgery. The first premolar implant showed some mis-fit between the crown and the ratio.

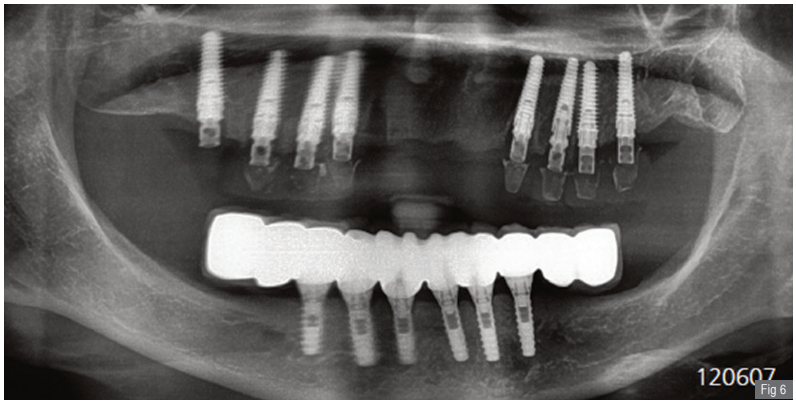
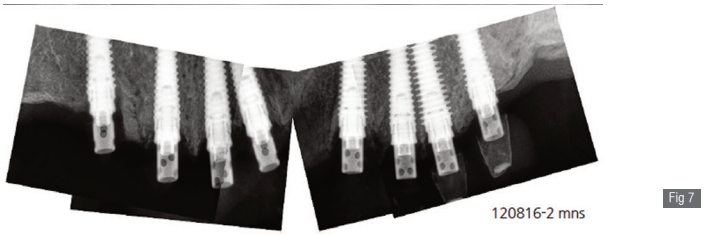
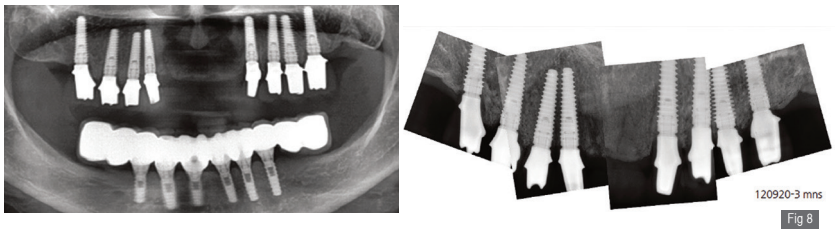
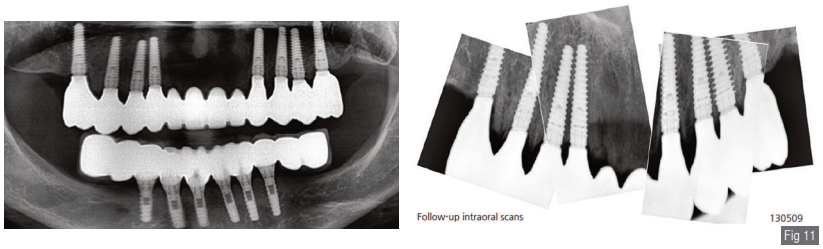


Fig 7. Intraoral scans taken 2 months after surgery. Shadows of the extraction socket can still be seen, but regenerated bone has started to fill the socket defects. The fuse abutments are functioning well without any problem.
An impression was taken for customized zirconia abutments







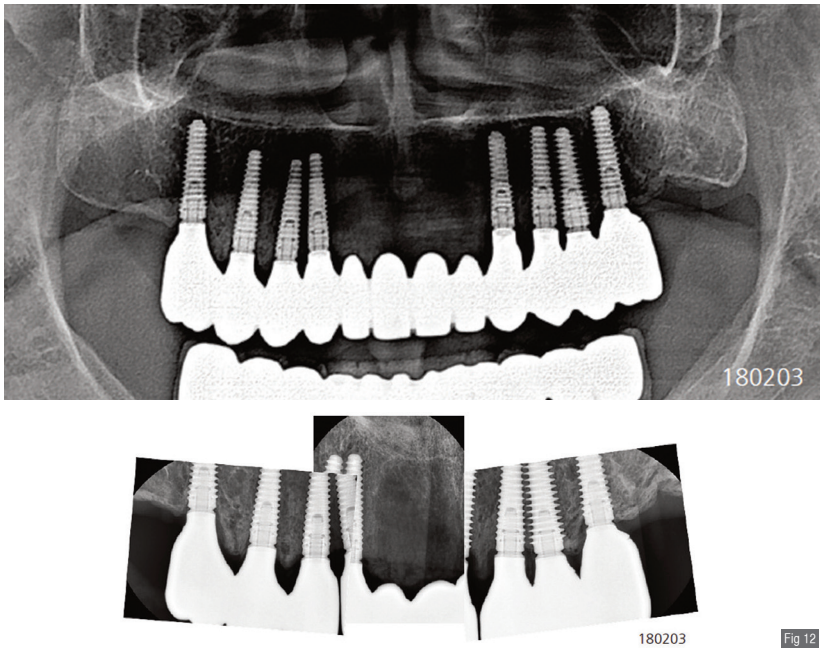


Fig 8. Panoramic & intraoral scans taken 3 months after surgery. Zirconia customized abutments were connected to each fixture. The socket defects are completely filled with regenerated bone even in the case of immediate loading on the immediately placed implants.

Fig 9. Clinical photos of zirconia customized abutments and PMMA temporary bridge made using CAD/CAM technique. A zirconia abutment is excellent for both esthetics and hygiene maintenance. It has less than 1/10 bacterial accumulation on the surface compared with metals including titanium. PMMA provisional bridge is stronger than tooth resin, especially at the margin, so much beneficial for functional and occlusal tests.

Fig 10. A full zirconia one-piece bridge was made and delivered. The patient was very satisfied with the results, and thankful that she was provided with 'teeth' from the beginning to the end.

Fig 11. Panoramic scan of final restorations on day of delivery

Fig 12. Panoramic scans at 7 years follow-up

Clinical Case 3

- Courtesy of Dr. Soheil Bechara

Simultanious sinus lift and implant placement

Fig 1. The patient presented with huge bony defects around residual roots in the upper jaw. The treatment plan was to perform immediate implant placement and extract all decayed roots during one surgical session, as the patient had only one week to stay in the country.

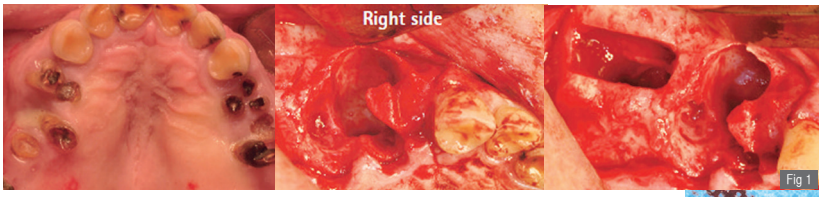
Fig 2. Lateral window sinus lifting was performed on the right side with simultaneous implant placement in tooth area 17. In area 14 we can observe a huge bony defect which was thoroughly debrided until the margins of healthy bone. The Osteotomy was prepared with a 2mm final drill to place a 3.5x15mm Anyridge implant.

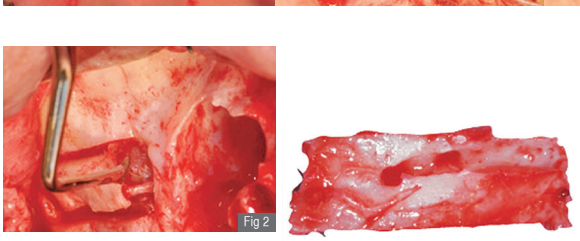
Fig 3. 3.5x15mm Anyridge implant was placed having only 2mm contact with the bone in the coronal part achieving 25 Ncm of initial torque.

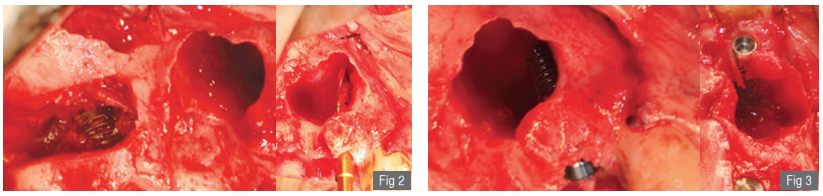
Fig 4. The bony defect was filled with a Xenograft and covered with a collagen membrane. Although the defect is huge but it is still considered as an intra-bony defect with a good potential of bone regeneration.

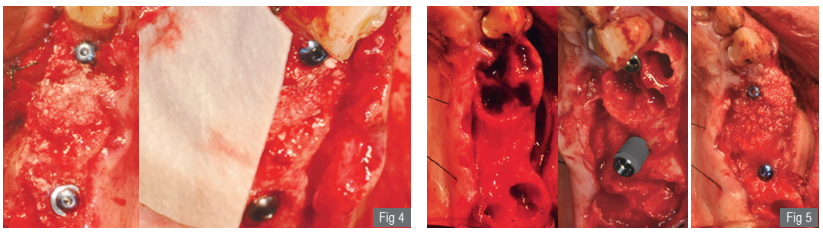
Fig 5. On the left side two Anyridge implants were placed, immediate implant placement in area 24. Sinus lift with simultaneous implant placement in area 27.

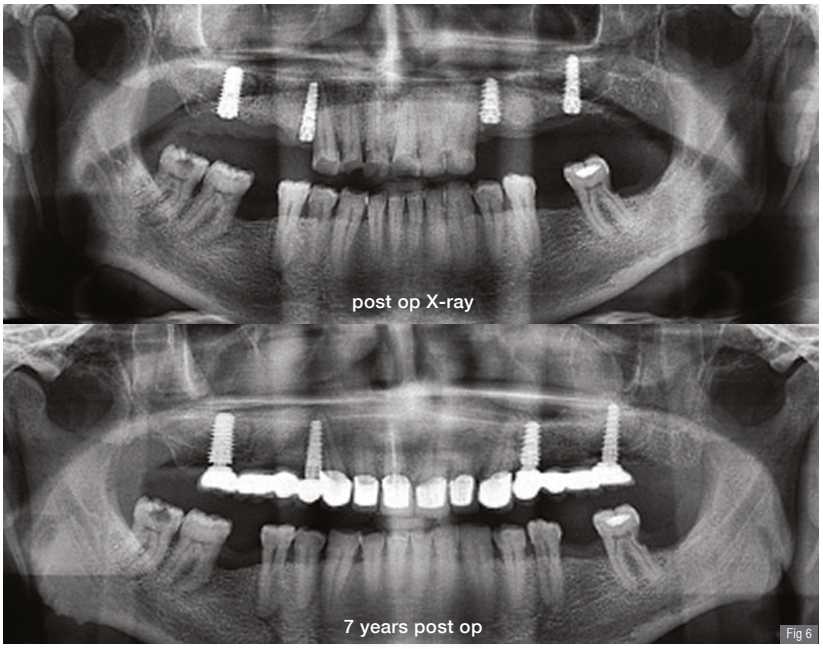
Fig 6. No marginal bone loss, successful aesthetic and functional outcome.











Clinical Case 4

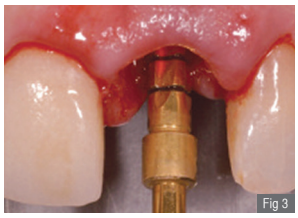
- Courtesy of Prof. Giuseppe Luongo

Immediate post-extraction insertion of implant and immediate loading.

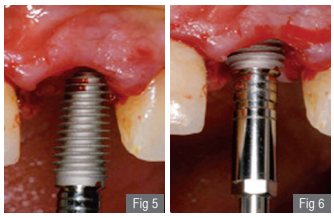
Before Surgery

Fracture of #21 tooth. Good stability of the hard and soft tissues suggests immediate post-extraction insertion of implant and immediate loading.

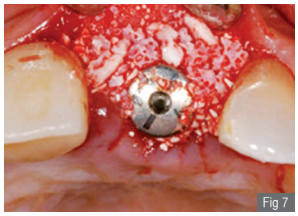
Surgery



To protect the esthetic outcome of the procedure, the implant site was prepared via slightly palatal alveolar access.



A 4.5×11mm Anyridge was placed in the prepared site.



Biomaterial was added to the vestibular aspect to improve the stability of the esthetic outcome.

Temporary Prosthesis

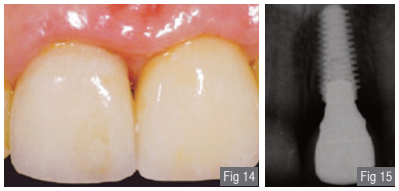
A temporary crown was immediately placed.

12 Weeks after surgery

Tissue was ready to proceed with final abutment and crown.

Final Prosthesis

The implant position was in harmony with the surrounding tissue and a prosthodontist completed the case using a zirconia framework.



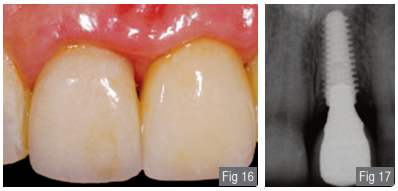


Fig 1. Clinical photos.

Fig 2. Intraoral scan.

Fig 3, 4. Clinical photos of 1st surgery.

Fig 5, 6. Clinical photos of implant positioning.

Fig 7, 8. Clinical photo & scan of surgery.

Fig 9, 10. Clinical photos of immediate temporary crown in place.

Fig 11, 12. Clinical photos of healing and final abutment in place.

Fig 13. Clinical photo of zirconia framework in place.

Fig 14, 15. Clinical photo & intraoral scan of final crown at time of placement.

Fig 16, 17. Clinical photo & intraoral scan of final crown at 1-yr follow-up.

Fig 18, 19. Clinical photo & intraoral scan of final crown at 5-yr follow-up.

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Head Office 45, Secheon-ro 7-gil, Dasa-eup, Dalseong-gun, Daegu, Korea **T. +82-1544-2285**
Gangnam Office MegaGen Tower, 607 Seolleung-ro, Gangnam-gu, Seoul, Korea **T. +82-1566-2338**