Actiplant®/ Mplant® PRODUCT CATALOGUE ver 3.0





NOTICE

- 1. Available products may very by country due to registration process.
- 2. Images in this catarogue might be different from actual products.
- 3. Specifications are subject to change without prior notice.

MCTBIO

MCTBIO is a leading manufacturer and expert company that has been working in research and development to improve the standards of the dental product in the global market worldwide since the company's establishment in 1999. Experts for creative innovation and superior quality, we are expanding our sales networks with our official distributors in over 30 countries across the globe.



Export Tower Award



USA PFA AWARD

The Pierre Fauchard Academy was organized in 1936. The founders of the Academy selected the name of Pierre Fauchard in memory of the French dentist who was recognized as the "Father of Modern Dentistry." The Dental Trade and Industry Award of Recognition may be presented to an outstanding leader in the Dental field for their contributions.

History

1999 2005	Establishment of MCT (Mr.Curette Tech) Acquirement of KGMP Certification
2007	Designate as venture company (Appointed technology innovation type of Small and Medium Industry)
2008	Acquirement of ISO 13485, CE
2008	R&D center establishment
2009	Acquirement of FDA,CFDA Certification
2015	Establishment of MCTBIO CO.,LTD.
2016	Dental Needle Launched
2018	Auto Bone Tac System launched
2022	Received \$3 million export tower award
2023	Acquire MBABIOTECH CO.,LTD. for Dental Implant System

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"Crafting Tomorrow's Smiles"







Mplant

Implant Fixture

Actiplant

Mplant

Actiplant



No Bone Loss

Minimize stress to the cortical bone for natural emergence profile

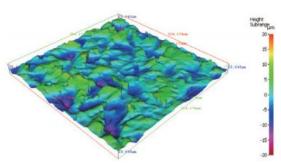
Micro rings

Prevention of alveolar crest cortical bone resorption

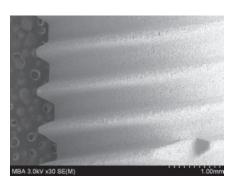
S.L.A. Surface

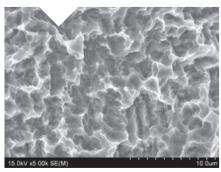
Al₂O₃ Powder Sand-blast and Acid Etched Ideal surface for prompt osseointegration Surface Roughness Ra 1.8~2.2

Improves growing of bone cells with no residual acid



measurement performed by alicona Infinite focus

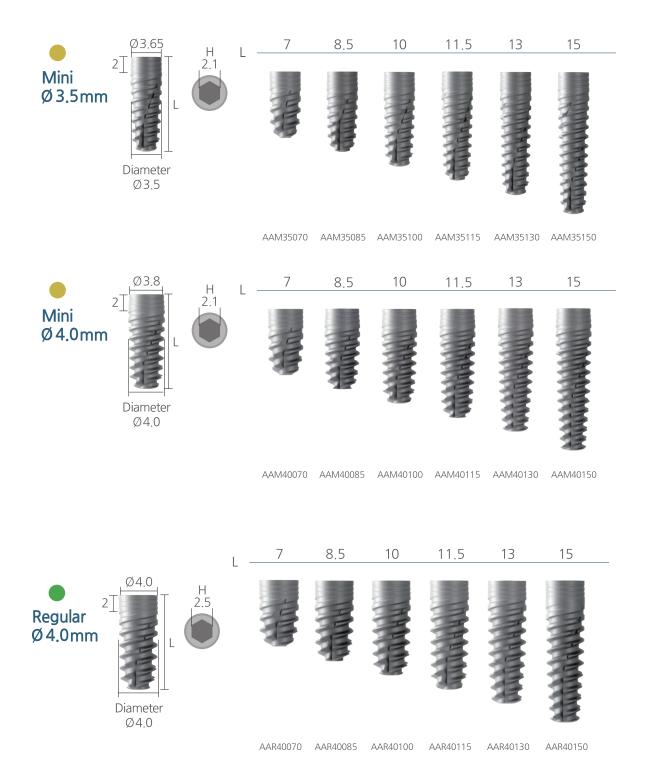




(proven by ICP / IC Analisys)

Actiplant

- Submerged type implant with SLA surface
- Internal 11° tapered with hexagon connection
- Recommended to use the fixture with diameter bigger than Ø4.5mm for the single case in posterior area
- Ø4.0 with the mini platform to minimize fatigue failure in posterior



Actiplant



Mplant



S.L.A. Surface

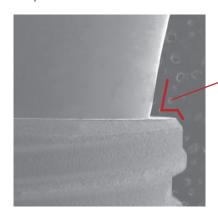
Al₂O₃ Powder Sand-blast and Acid Etched Ideal surface for prompt osseointegration Surface Roughness Ra 1.8~2.2 µm Improves growing of bone cells with and no residual acid

Excellent primary stability

S-line design for natural emergence profile

Platform Switching

- Helps prevent crestal bone loss
- Increase the volume of soft tissue
- Improve the aesthetics



Thread Design

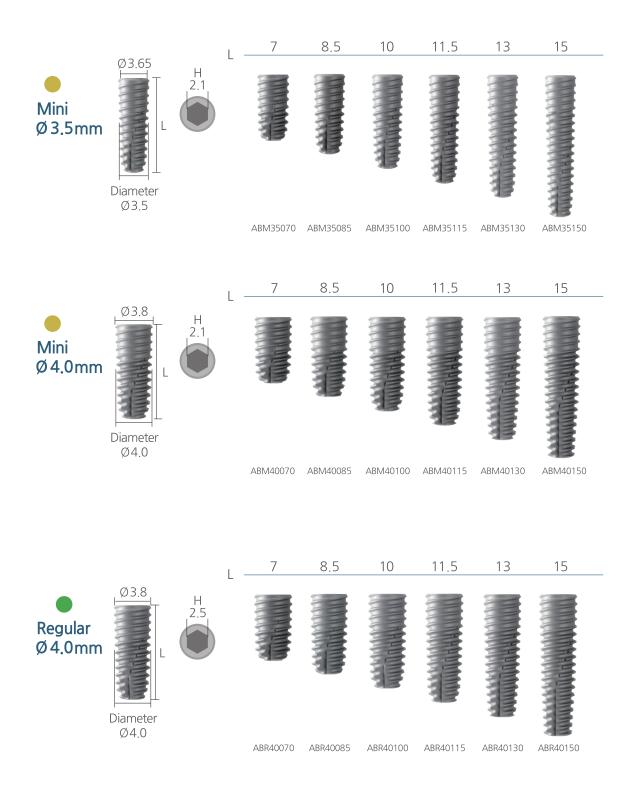


Smooth Tactile

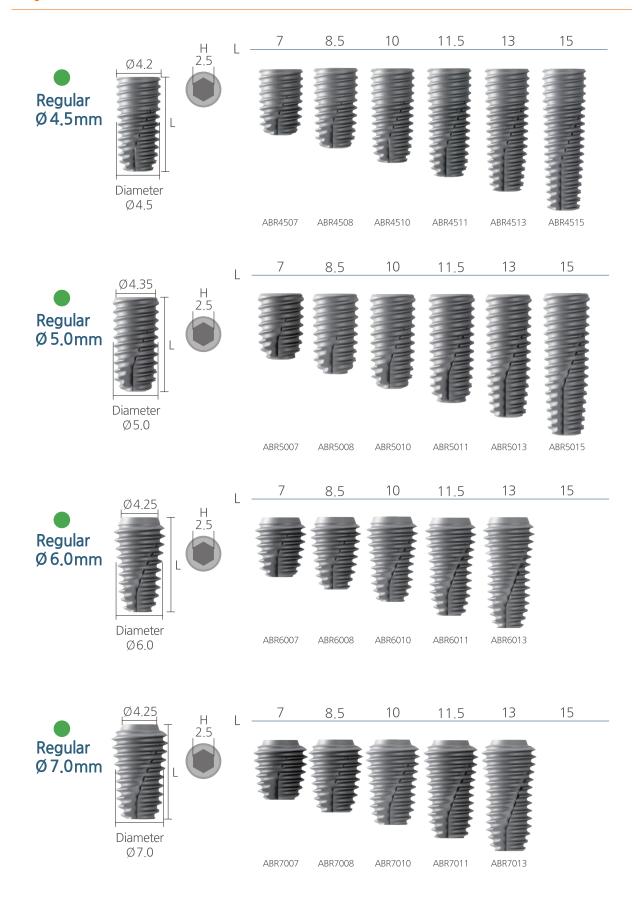


Mplant

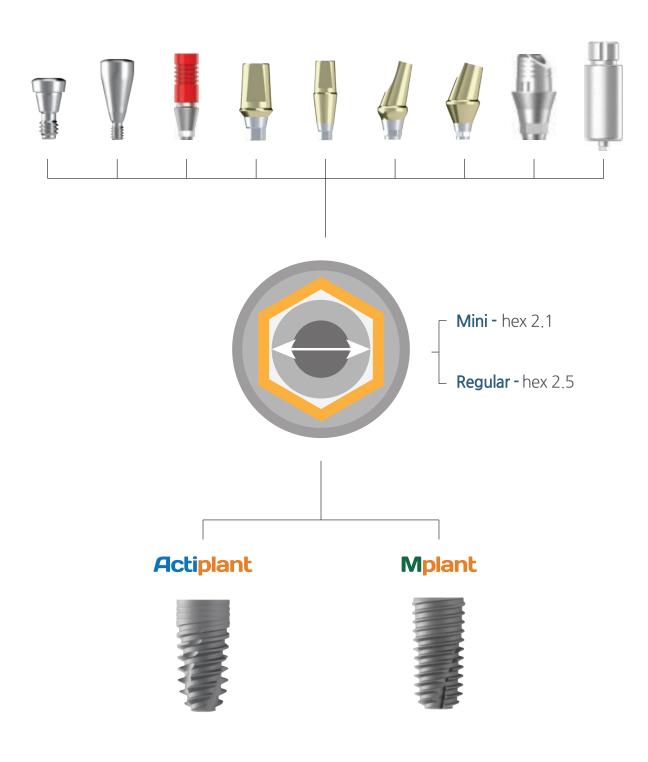
- Submerged type implant with SLA surface
- Internal 11° tapered with hexagon connection
- Recommended to use the fixture with diameter bigger than Ø4.5mm for the single case in posterior area
- Ø4.0 with the mini platform to minimize fatigue failure in posterior



Mplant



Common Platform for both Actiplant & Mplant





Implant Prosthetics

Cover Screw

Healing Abutment

Dual Abutment

Angled Abutment

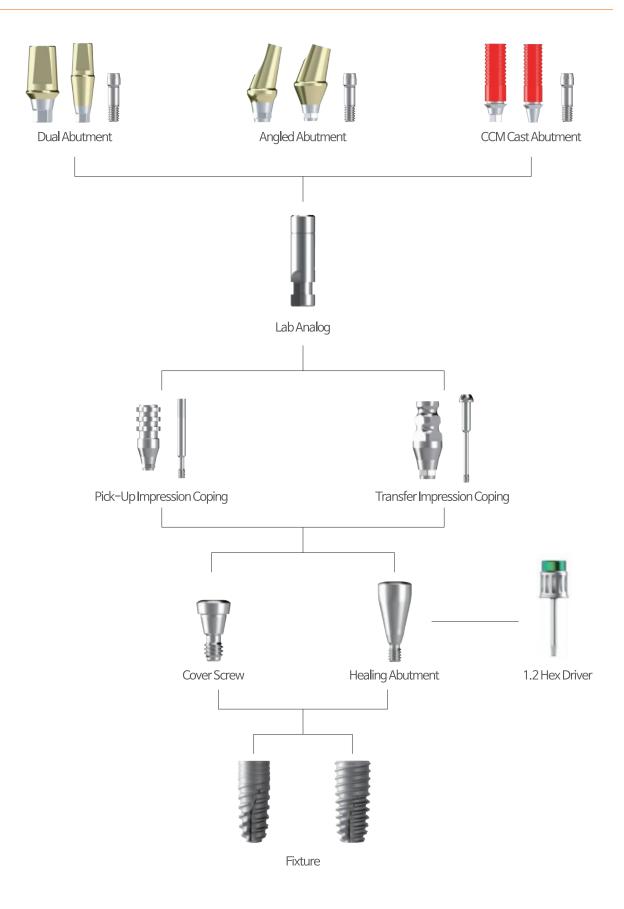
CCM Cast Abutment

Impression Coping

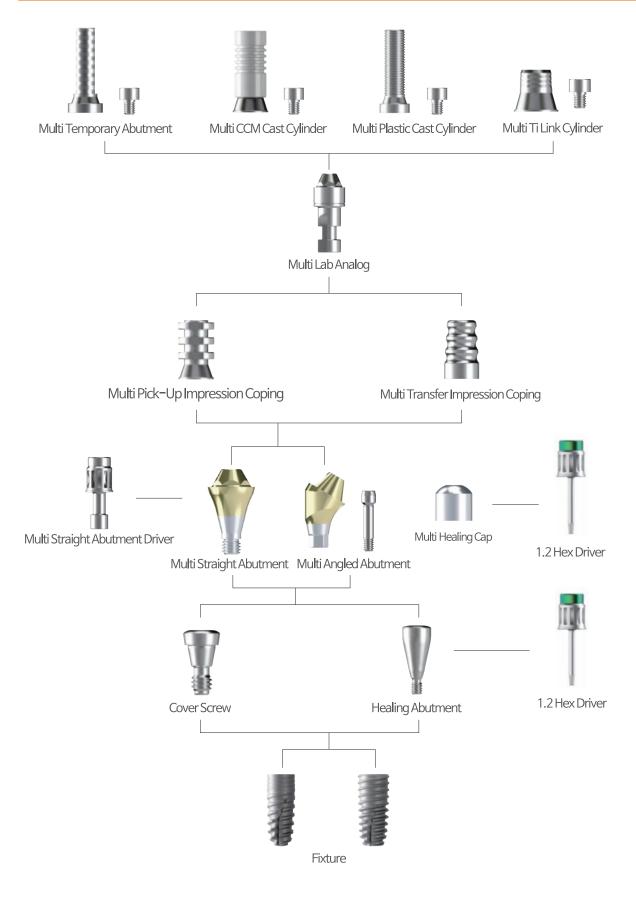
Multi Unit Abutment

Surgical Kit

Prosthetics Flow Chart



Prosthetics Flow Chart, Multi Unit



Tightening Torque Recommendation

Recommended to use the tightening torque as in the below

10Ncm



Cover Screw



Healing Abutment





Transfer



Multi Pick-Up Impression Coping Impression Coping Impression Coping



Multi Transfer



Multi Healing Cap

20Ncm



Multi Temporary Cylinder



Multi CCM Cast Cylinder



Multi Plastic Cast Cylinder



30Ncm

*Re-tighten with a torque of 30Ncm after 10 minutes of initial placement



Dual Abutment



Angled Abutment



CCM Cast Abutment



Ti base



Ti custom Abutment

Multi Angled Abutment

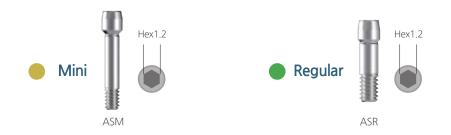
Cover Screw

- Select appropriate gingiva height
- Tighten with 1.2 Hex Driver by hand
- Recommended tightening torque: 10Ncm
- * Included in the fixture for some countries

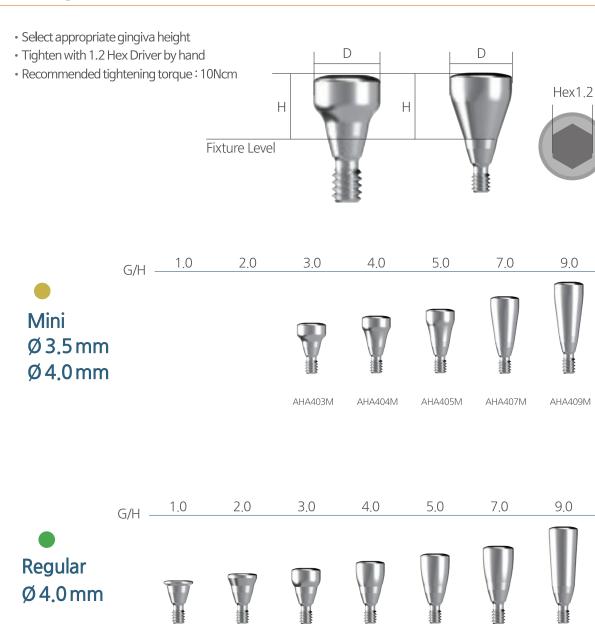




Abutment Screw



Healing Abutment





AHA403R

AHA404R

AHA405R

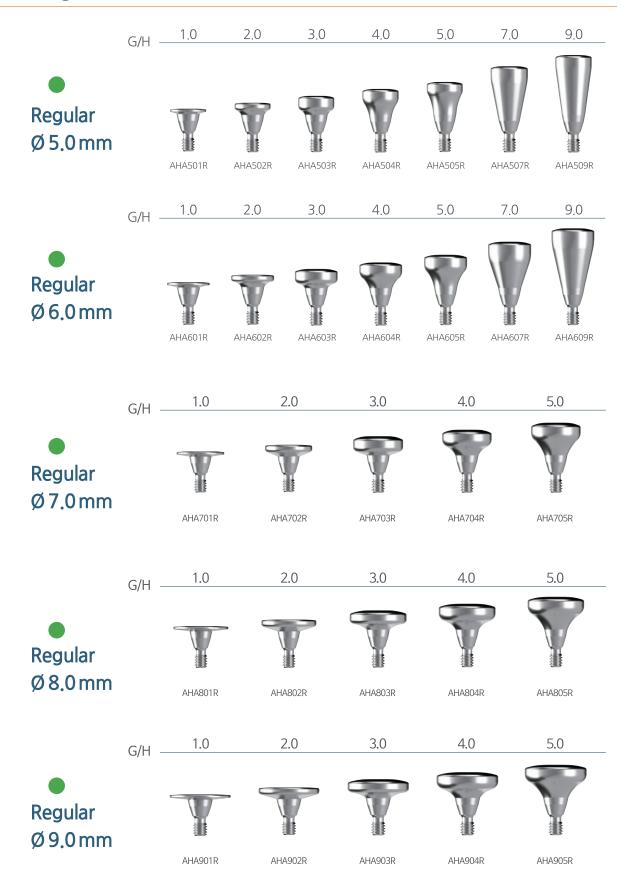
AHA407R

AHA401R

AHA402R

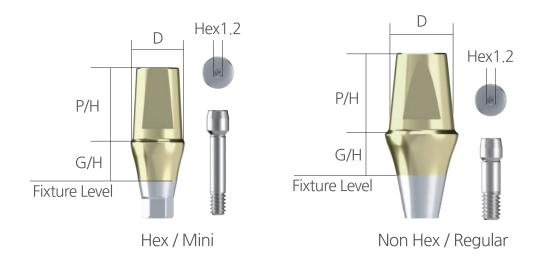
AHA409R

Healing Abutment



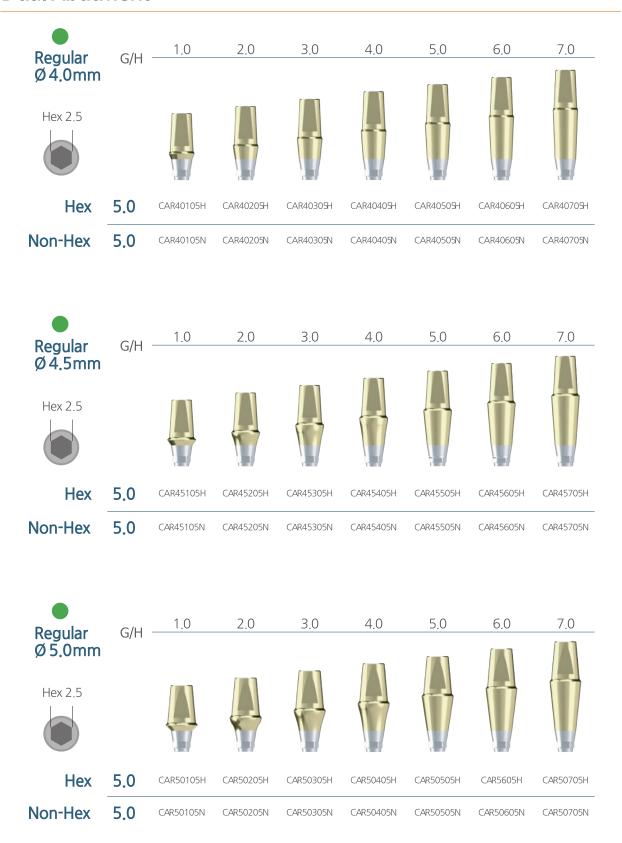
Dual Abutment

- Tighten with 1.2 Hex Driver
- Recommended tightening torque: 30Ncm

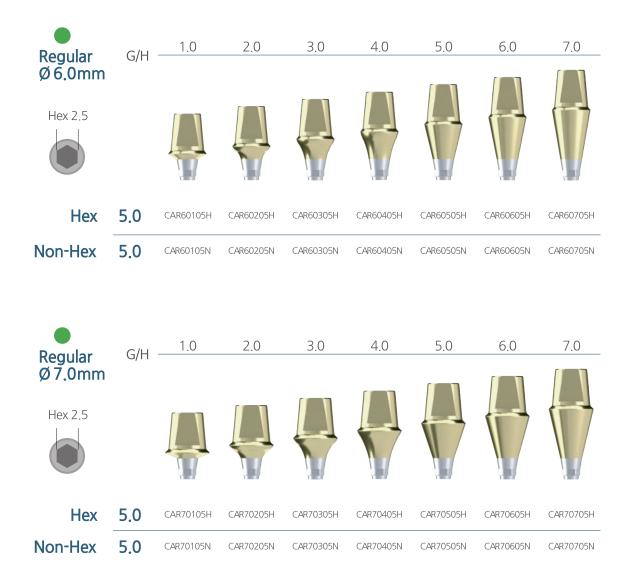




Dual Abutment

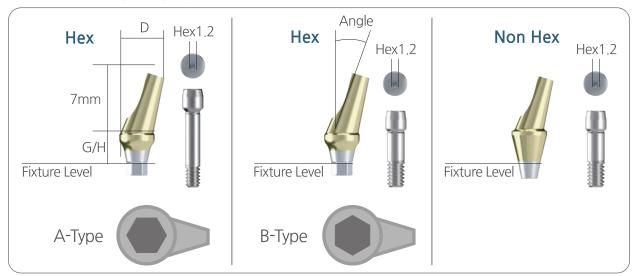


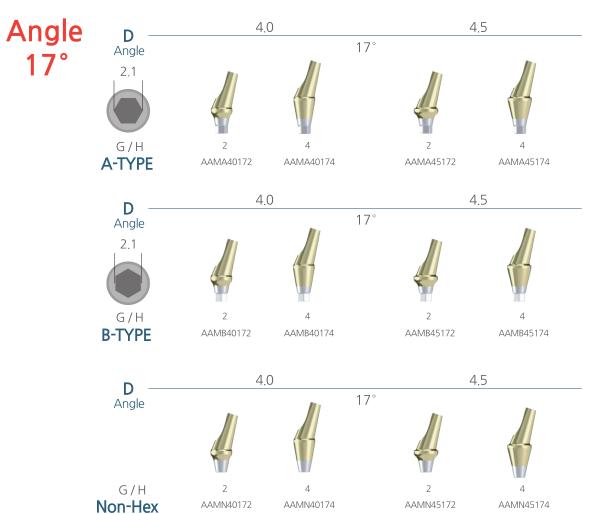
Dual Abutment



Angled Abutment (17°) for Mini

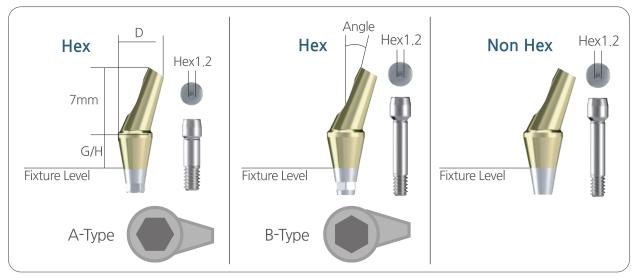
- Can be positioned in 12 directions by selecting A or B type
- Tighten with 1.2 Hex Driver
- Recommeded tightening torque: 30Ncm

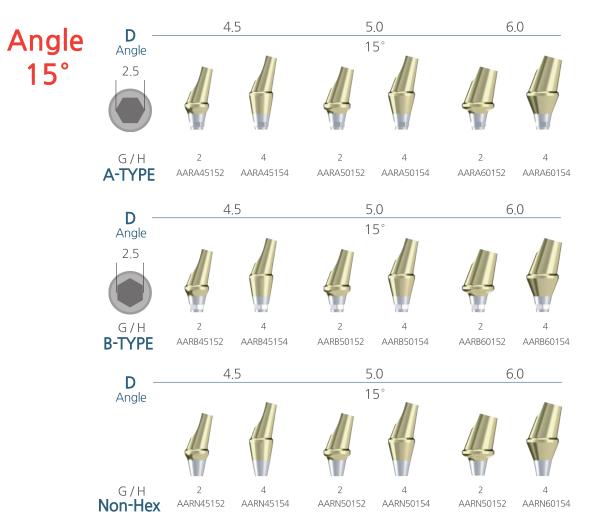




Angled Abutment (15°) for Regular

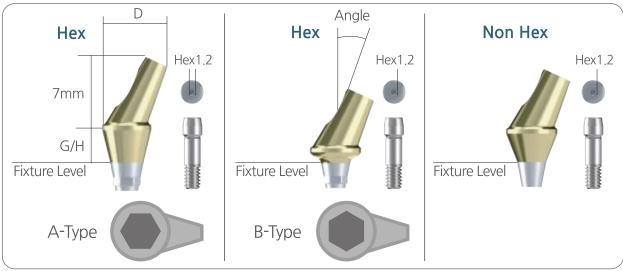
- Can be positioned in 12 directions by selecting A or B type
- Tighten with 1.2 Hex Driver
- Recommeded tightening torque: 30Ncm





Angled Abutment (25°) for Regular

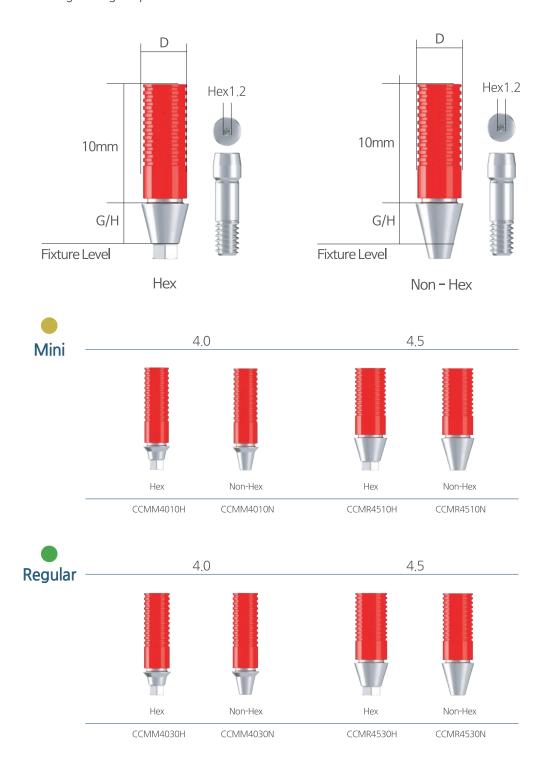
- Can be positioned in 12 directions by selecting A or B type
- Tighten with 1.2 Hex Driver
- Recommeded tightening torque: 30Ncm





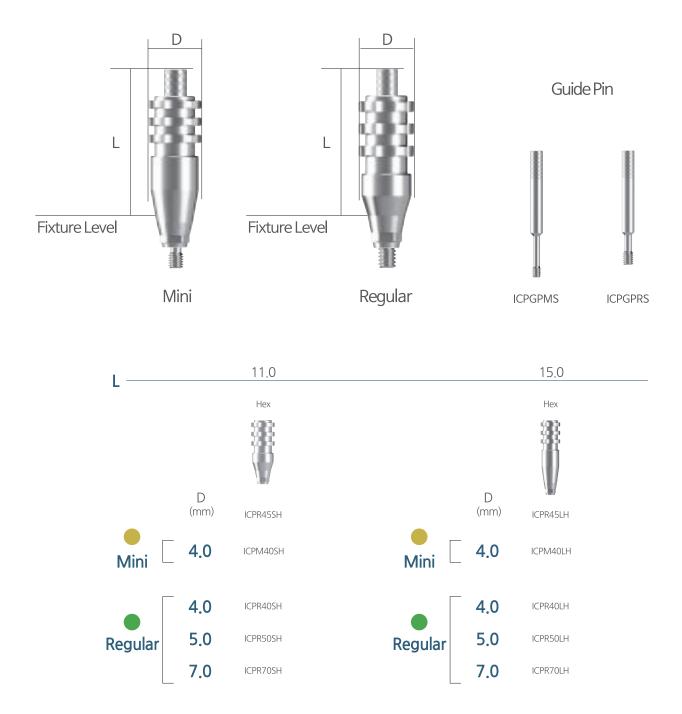
CCM Cast Abutment

- Abutment for making customized abutment in complicated cases
- Fixture Level Impression
- Casting with non-precious alloy for making cutomized prosthesis
- Melting point of CCM: 1,400 ~ 1,550℃
- Tighten with 1.2 Hex Driver
- Recommended tightening torque: 30Ncm



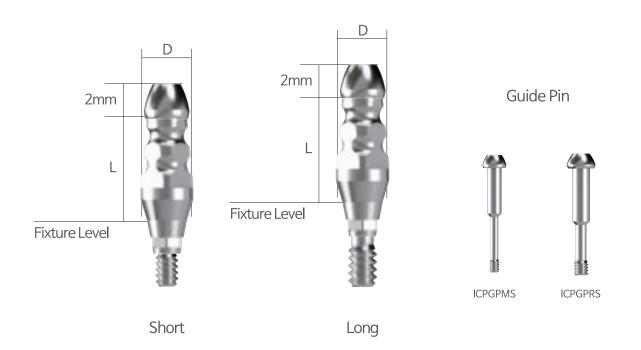
Impression Coping Pick-up

- Components for Fixture Level Impression
- Open Tray Type
- Tighten with 1.2 Hex Driver by hand



Impression Coping Pick-up Transfer

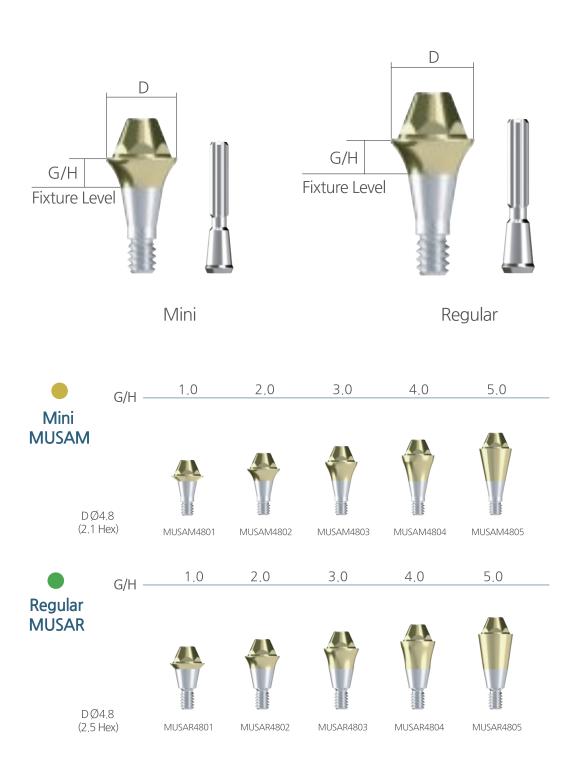
- Components for Fixture Level Impression
- Open Tray Type
- Tighten with 1.2 Hex Driver by hand





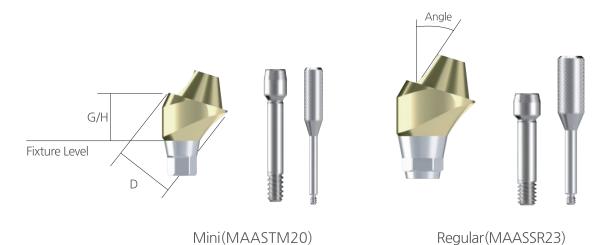
Multi Straight Abutment

- Abutment for making screw-retained prosthesis in Multiple Case
- Same platform as Multi Angled Abutment
- Move into oral part by using custom Abutment Carrier (Code: MSACR48)
- Tighten with custom driver (Code: MASDSR20)
- Recommended tightening torque: 30Ncm



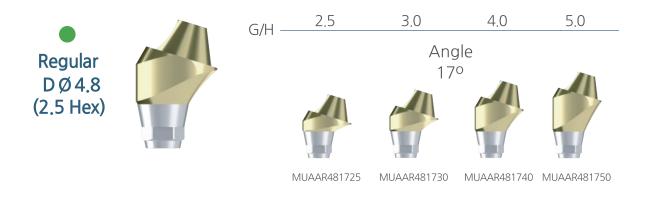
Multi Angled Abutment

- Abutment for making screw-retained prosthesis in Multiple Case
- Abutments of two angles (17°, 30°) for various angles of implant insertion path
- Same platform as Multi Straight Abutment
- Compensation of fixture placement angle
- Connect by using custom Abutment Carrier (Code: MAACRMC)
- Tighten with 1.2 Hex Driver (Code: HEDR12)
- Recommended tightening torque: 30Ncm





Multi Angled Abutment





Multi Unit Angled Screw



Multi Temporary Cylinder

- Multi Cylinder for making Screw-retained prosthesis from Multi Abutment
- For making Screw-retained temporary Abutment
- Tighten with 1.2 Hex Driver
- Recommended tightening torque: 20Ncm
- Multi Cylinder Screw (MTCSR23) included



Multi Plastic Cast Cylinder

- Multi Cylinder for making Screw-retained prosthesis from Multi Abutment
- Tighten with 1.2 Hex Driver
- Recommended tightening torque: 20Ncm
- Multi Cylinder Screw (MTCSR23) included



Multi Plastic Cast Cylinder (non-precious alloy)

• Multi Cylinder for making Screw-retained prosthesis from Multi Abutment

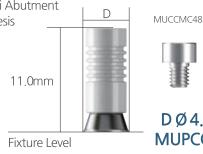
• Casting with non-precious alloy for making customized prosthesis

• Melting point of CCM: 1,400 ~ 1,550°C

Tighten with 1.2 Hex Driver

• Recommended tightening torque: 20Ncm

• Multi Cylinder Screw (MTCSR23) included



DØ4.8 **MUPCCN 48**

Multi Healing Cap

- Protect Cap for Multi Unit Abutment
- Tighten with 1.2 Hex Driver by hand
- Recommended tightening torque: 10Ncm



Fixture Lab Analog

- Lab Analog for Fixture Level Impression
- · Select according to the Fixture Diameter
- (Ø3.5 / Ø4.0 and above)





Multi Pick-Up Impression Coping

- Components for taking Abutment Level impression for Multi Abutment
- Open Tray type
- Tighten with 1.2 Hex Driver by hand
- Multi Pick-up Impression Coping Guide Pin(MPICSRGP) included



MUIC Ø 4.8

Multi Impression Coping Transfer

- Component for taking Abutment Level impression for Multi Abutment
- Closed Tray Type
- Tighten with 1.2 Hex Driver by hand



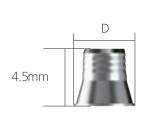
MUICT Ø 4.8mm

MUICT48

Multi Ti Base

- Multi Cylinder for making Screw-retained prosthesis from Multi Abutment
- Use when producing Customized Abutment (Titanium & Zirconia) and Crown by CAD/CAM equipment
- Use the indivisual Implant library of the Fixture System
- Abutment Level Impression
- Tighten with 1.2 Hex Driver
- Recommended tightening torque: 20Ncm
- Multi Cylinder Screw (MTCSR23) included

D Ø 4.8 MUTLC 48





Multi Lab Analog

Lab Analog for Multi Abutment

MULA Ø 4.8 mm

Multi Straight Abutment Driver

Driver for Multi Straight Abutment



Multi Cylinder Screw



MTCSR23

Surgical Kit

Twist Drill -図 **Equipped with** (Drill Life 50~100 Times) MBA Biotech Fixture Driver - Lindermann Drill Drill Extension StopperTorque Wrench Stopper Optional Lindermann Drill **Drill Extension** Twist Drill (Drill Life 50~100 Times) (Drill Life 50~100 Times) Counter Sink Fixture Driver 1.2 Hex Driver Torque Wrench Stopper

Surgical Kit

Lindermann Drill

- enables to change angle during drilling it is not slipping on slope
- Recommended RPM: 800 ~ 1,200 rpm/m

D (mm)	Ø2.0	Ø2.0		
Short	LD20S	LD25S		



Twist Drill

- Straight drill for surgery stepsPossible to drill into desired depth by combining with stopper (marking line matches with stopper size)

D	2.2 D	3.5 F	
(mm)	Ø2.2	Ø3.0	
Short	TD2F22S	TD2F30S	
Long	TD2F22L	TD2F30L	
D	4.0 F	4.5 F	5.0 F
(mm)	Ø3.6	Ø4.1	Ø4.6
Short	TD2F36S	TD2F415	TD2F46S
Long	TD2F36L	TD2F41L	TD2F46L



* Long size is optional

Drill Extension

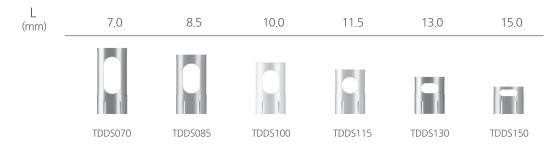
- Lengthen the surgical instrument in use by engaging
- Make sure that the drill extention is engaged completely before usage to avoid bending or breaking of the assembled instrument



Surgical Kit

Drill Stopper

Indicated number on each stopper means exposed length of the Drill, excluding head of drill (Y-Dim)



* It is always recommended to use 1 step shorter stopper for drilling than the length of fixture to be installed, to make sure the fixture will be submerged 0.5~1.0mm deeper than the bone level

Counter Sink

- To be used for removing cortical bone for hard bone case
- Drill to the bottom of each marking line
- The lower marking line is for normal bone and the upper marking line is for hard bone

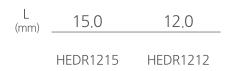


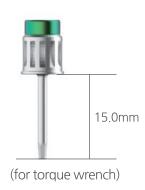
33.6mm

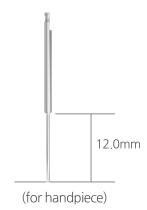
	3.0 C (Narrow)	3.5 C	4.0 C	4.5 C	5.0 C	5.5 C	
	CD3FNF30	CD4FF35	CD4FF40	CD4FF45	CD4FF50	CD4FF55	
COLOR	Purple	Yellow	Green	Blue	Purple	Yellow	

1.2 Hex Driver

- Driver for using with Torque Wrench or handpiece
- Follow recommended tightening torque value
- Be sure to check deformation of Hex tip before use



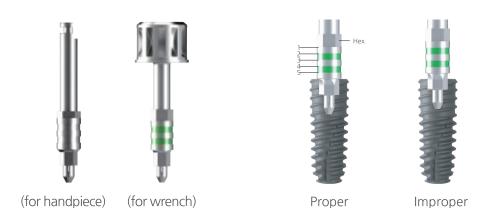




Surgical Kit

Fixture Driver

- For Handpiece: Directly engaged to fixture by assembled with handpiece when using Implant motor
- For Torque Wrench: Directly engaged to fixture by using Torque Wrench
- Two-level coloring enables measuring of the depth at 1mm intervals
- Be sure to use it after proper engagement



Torque Wrench

- Used for placing fixture and tightening abutments and screws
- Meet torque value by pulling the bar to be aligned with the marked line
- Recommended to use by pressing the head of driver to prevent disengagement between the Torque Wrench and Instrument





GBR

Auto Bone Tack Mini Kit

GBR Master with Titanium Core Mesh

GBR Master with Bone Carrier

Tenting Screw Kit / Membrane Fixed Screw Kit

Block Bone Screw Kit / GBR Mini Kit

Titanium Core Mesh Kit / Titanium Mesh Kit

GBR Master with Titanium Core Mesh (Screw 142ea, Bone Tac 42ea)



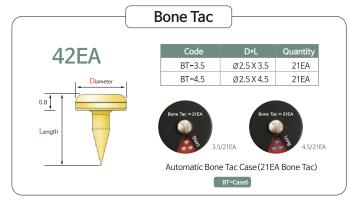




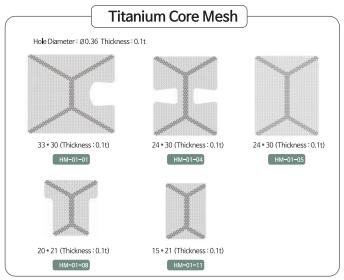


Bone Screw 126EA AU-12-003 AU-14-004 Ø1.2 X 3 7EA Ø1.4 X 4 AU-12-004 Ø1.2 X 4 7EA AU-14-006 Ø1.4 X 6 7EA AU-12-006 AU-14-008 Ø1.2 X 6 7EA Ø1.4 X 8 7EA AU-12-008 Ø1.2 X 8 7EA AU-14-010 Ø1.4 X 10 7EA Length AU-16-004 Ø1.6 X 4 AU-18-004 Ø1.8 X 4 AU-16-006 Ø1.6 X 6 7EA AU-18-006 AU-16-008 Ø1.6 X 8 AU-18-008 7EA Ø1.8 X 8 7EA AU-18-010 AU-16-010 Ø1.6 X 10 Ø1.8 X 10 7EA AU-16-012 Ø1.6 X 12 7EA AU-18-012 Ø1.8 X 12











GBR Master with Bone Carrier (Screw 102ea, Bone Tac 42ea)

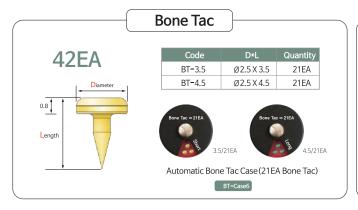


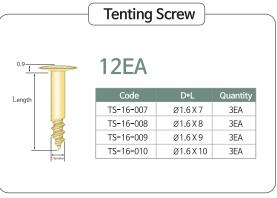


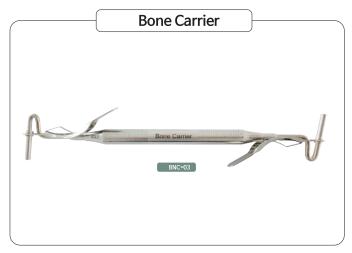


Bone Screw 90EA AU-12-003 Ø1.2 X 3 AU-14-004 Ø1.4 X 4 AU-12-004 AU-14-006 Ø1.2 X 4 5EA Ø1.4 X 6 5EA AU-12-006 Ø1.2 X 6 5EA AU-14-008 Ø1.4X8 5EA AU-12-008 AU-14-010 Ø1.2 X 8 5EA 5EA Ø1.4 X 10 AU-16-004 Ø1.6 X 4 AU-18-004 Ø1.8 X 4 AU-16-006 Ø1.6 X 6 5EA AU-18-006 Ø1.8 X 6 Ø1.6 X 8 5EA AU-18-008 Ø1.8 X 8 5EA AU-16-010 Ø1.6 X 10 5EA AU-18-010 Ø1.8 X 10 5EA AU-16-012 Ø1.6 X 12 5EA AU-18-012 Ø1.8 X 12





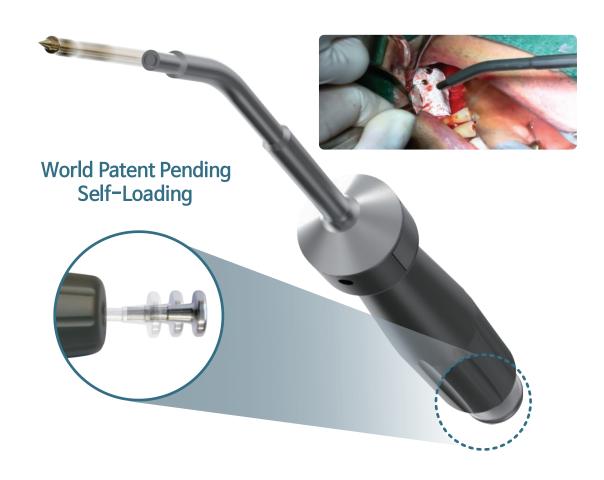






Auto Bone Tack Mini Kit (Autimatic Bone Tac Gun + Bone Tac 21ea + Bone Tac Holder)



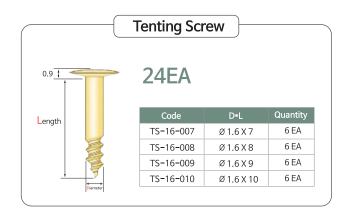


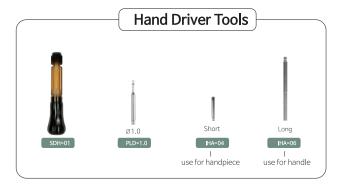
Tenting Screw Kit (Screw 24ea)

Consists of long length screws (7, 8, 9, 10mm) for Tenting purpose.



Tenting Screw Kit
TSK-01



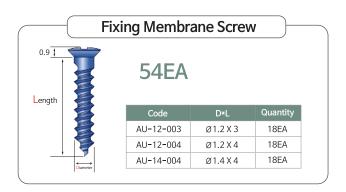


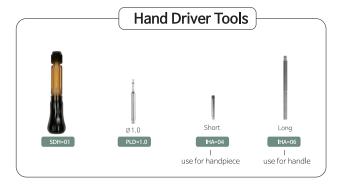
Membrane Fixed Screw Kit (Screw 54ea)

Consists of short length screws (3 & 4mm) for membrane fixation (Ti-mesh).



Membrane Fixed Screw Kit
TMS-02



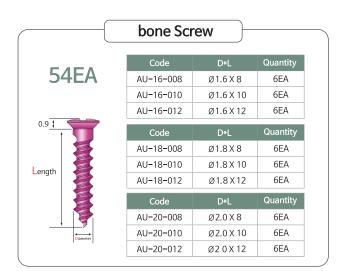


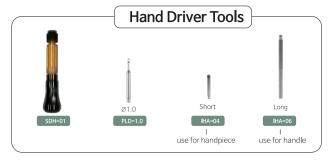
Block Bone Screw Kit (Screw 54ea)

Consists of long length screws (8, 10, 12mm) for Block bone fixation or Tenting purpose



Block Bone Screw Kit
TMS-03



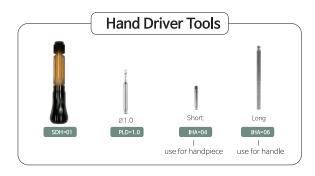


GBR Mini Kit (Screw 30ea, Bone Tac 12ea)

Membrane fixation screw with Membrane tac combo kit



GBR-Kit 4 GBR-04







Bone Tac Holder

Titanium Core Mesh Kit

Hole Diameter: Ø0.36 Thickness: 0.1mm



Titanium Core Mesh Kit
TMM-02

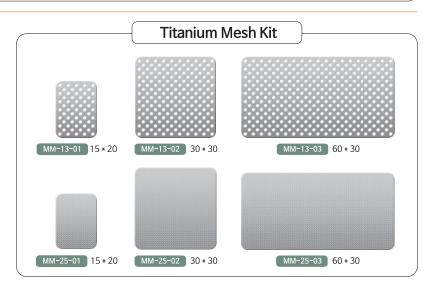
Titanium Core Mesh Kit 33 * 30 (Thickness: 0.1mm) 14 * 30 (Thickness: 0.1mm) 21 * 30 (Thickness: 0.1mm) 24 * 30 (Thickness: 0.1mm) HM-01-01 HM-01-02 HM-01-03 HM-01-04 24 * 30 (Thickness: 0.1mm) 13 * 21 (Thickness: 0.1mm) 14 * 21 (Thickness: 0.1mm) 20 * 21 (Thickness: 0.1mm) HM-01-06 HM-01-07 HM-01-08 HM-01-05 23 * 30 (Thickness: 0.1mm) 18.5 * 12.5 (Thickness : 0.1mm) 15 * 21 (Thickness : 0.1mm) 14 * 14 (Thickness: 0.1mm) HM-01-09 HM-01-10 HM-01-11 HM-01-12

Titanium Mesh Kit

Hole Diameter: Ø1.3, Ø0.25 Thickness: 0.1mm



Titanium Mesh Kit





Implant Instrument

Sinus Master Kit

MASAI Drill Kit (Magnetic Sinus Drill)

Fixture & Screw Removal Master Kit

Fixture Removal Kit / Screw Removal Kit

Bone Expander Master Kit

Bone Expander Kit / M-Torque Driver Kit

Bone Chip Maker Kit

Bone Collector & Guide Kit

Implant Prosthetic Master Kit

Implant Prosthetic Mini Kit / Lindemann Drill Kit

Tissue Punch & Trephine Bur & Saw Kit

PRF - Box / Gold Mill

Sinus Master Kit

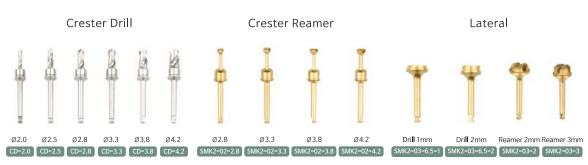
For Lateral and Crestal Sinus Lifting

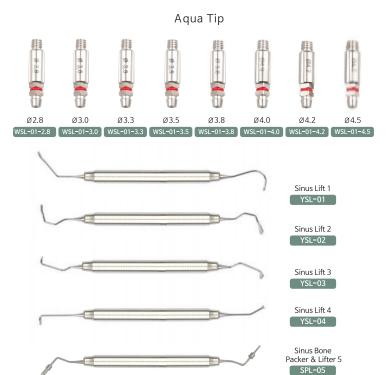
- 1. Use the crest / lateral drills assembled with the stopper 1mm shorter than the depth
 - A lateral maxillary window can be created efficiently with Lateral Drills.
- 2. Finish the last 1mm with a crest / lateral reamer.
- 3. Use sinus lift instruments to lift up the sinus membrane.

Sinus Master 3



The Components







MASAI Drill Kit (Magnetic Sinus Drill)

Crestal Approach





Lateral Approach







Masai Drill Kit MAS4-01

The Components



Crest Magnetic Drill Ø3.3



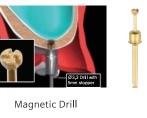
Aqua Tip













Fixture & Screw Removal Master Kit



Fixture & Screw Removal Master

FSRK-02



Fixture & Screw Removal Master (Rescue Master Kit)

The Components

Fixture Removal Drill



Screw Removal Guide

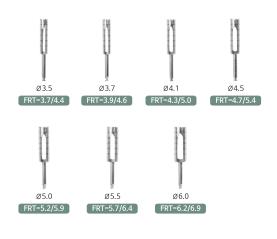




Screw Removal Drill & Tap



Fixture Removal Trephine Bur



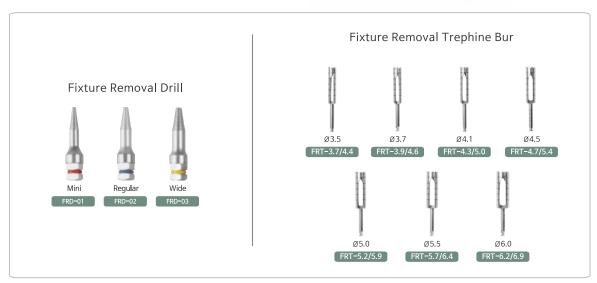


Fixture Removal Kit

Fixture Removal

- 1. An excellent combination of Fixture Removers and Trephine Burs for all procedures.
- 2. Fixture Removal Trephine Bur removes implants without bone loss.
- 3. One Remover fits all sizes of implants.
- 4. Strong and durable.





Screw Removal Kit

Screw Removal

- 1. Select the appropriate "Guide" for the damaged abutment.
- 2. Attach the "Guide" using the Guide Holder. (SRG-H)
- 3. In Reverse, use The Screw Remover Drill to prepare a channel in the broken screw.

 The "Guide" will ensure the channel is positioned in the correct place.
- 4. Also in Reverse, use the Tap drill to remove the broken screw.





Bone Expander Master Kit

The Bone Expander Master Kit contains specially designed expander screws and spreaders that allow controlled ridge split while condensing soft cancellous bone.

- 1. Can be used for sinus lift (Crestal approach)
- 2. Can be used to push the bone grafting.



The Components

Bone Expander/Pilot Drill





Bone Expander Kit

Is used for expanding the bone which has narrow width.

- 1. Measure the width of bone.
- 2. Prepare a pilot osteotomy with the pilot Drill
- 3. Widen the osteotomy with the appropriate Bone Expander.
- 4. Use extension tool for difficult access between long adjacent teeth







M-Torque Driver Kit

Simple design with precise torque value ($10\sim40$ n/cm) Easy adjustment of torque value by simple operations, strong durability against heat. Suitable for various drivers



M-Torque Driver Kit
MTD-02

Bone Chip Maker Kit

- 1. Can collect autogenous bone powders at the same time while processing the implant osteotomy.
- 2. Safety stoppers can be installed (5, 7, 10, 11.5mm)
- 3. Maximized bone collection even during the irrigation.











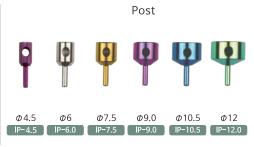
Implant Guide Kit

Shorten the time for implant. Strong durability against heat. Simple to use







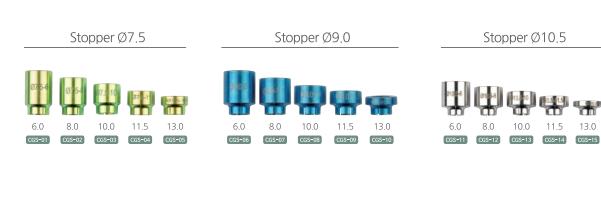




Bone Collector & Guide Kit



Bone Collector & Guide Kit BCG-01









Implant Prosthetic Master Kit

- 1. Our Implant Prosthetic Master gives you the ability to handle any implant system.
- 2. Save time and money by not having to order drivers from many different companies.
- 3. This kit is consists of an M-Torque Driver and various. Engines and hand drivers.



Implant Prosthetic Master Kit IPM-01



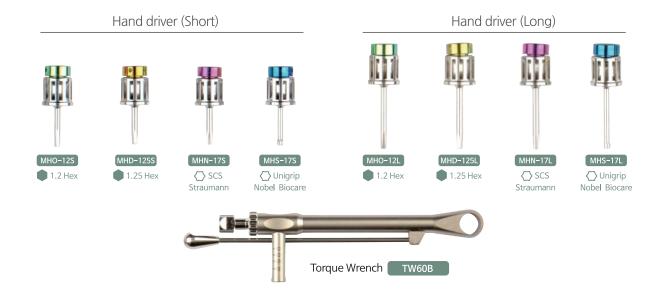




Implant Prosthetic Mini Kit



Implant Prosthetic Mini Kit IPM-02



Lindermann Drill Kit



Tissue Punch & Trephine Bur & Saw Kit

Tissue Punch & Trephine Bur & Saw







Tissue Punch & Trephine Bur & Saw Set



Tissue Punch









Trephine Bur



















Character of PRF BOX

- 1. Prevents infections by not using gauze.
- 2. Growth Factor collected by the PRF BOX is used in bone grafting and helps the formation of new bone.





Direction for Use

- 1. Draw 5cc blood from patients.
- 2. Extract PRF Gel by centrifuging the blood sample.
- 3. Put the yellow part of the PRF Gel into the PRF Box and press.
- 4. Use PRF membrane which has been separated from the liquid.

















Gold Mill (Bone Mill)



Direction for use

Before Using, Sterilize by autoclave with 135°c for 20~30 mins. Collect bone from patient.

And cut bone with 0.3~0.5cm size for use in the gold mill. Put the bone into the gold mill body.

Turn the handle of the gold mill or press the lid by hand three times.









The Components











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