R2GATE® : Digital Dentistry

by MEGAGEN

Turning imagination
into reality
since 2012

I. R2 STUDIO™

R2 STUDIO creates a Virtual Patient
for full digital analysis & treatment realization

Beyond CBCT....

A single CBCT scan collects
extensive patient information, providing 3D images of the skeletal information, soft tissues, nerve pathways, skin.

How does it differ from CBCT

However, R2 STUDIO extends this digital data collection to include a 3D facial scan & precise dentition, allowing the creation of the virtual patient that can reflect the patient's individual smile and overall character.

CBCT
· Broad 20x20 FOV to create virtual patient
· 16 sec for 20 x 20 CBCT scanning
· Light-guided flexible FOV control

3D Facial scan
· Real 3D depth camera (1280x720)applied
· Independent photo taking module
· 5sec for full size of facial scanning
· 1800x848 full size 3D file (OBJ format)

Object (impression)scan
· Handy scan process
· 20sec for impression scanning
· Auto STL converting process
· Easy to export model file (Open STL format)

Ray

- 14 sec for 20x20 CT scanning
- 20 sec for impression scanning
- 5 sec for 3D facial scanning
- 30 sec for data reconstruction
- Light-guided flexible FOV control
  - Max. 20cm x 20cm(300um)
  - Min. 4cm x 3cm(70um)

3D facial scan reflect the patient's individual smile and overall character

R2 STUDIO creates digital model from an impression scan

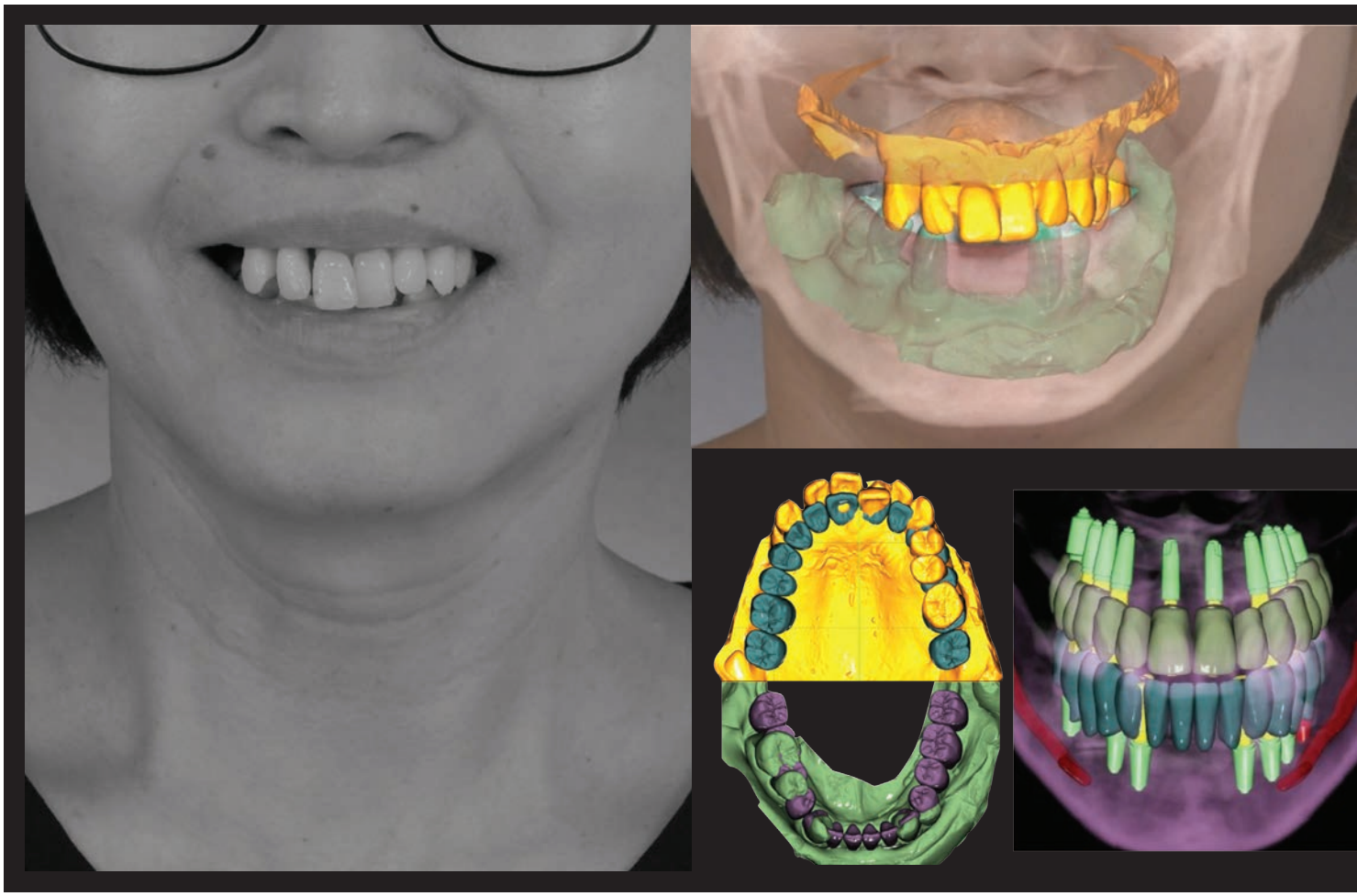
Digital diagnosis & Treatment planner

II. R2GATE® Digital Oral Design

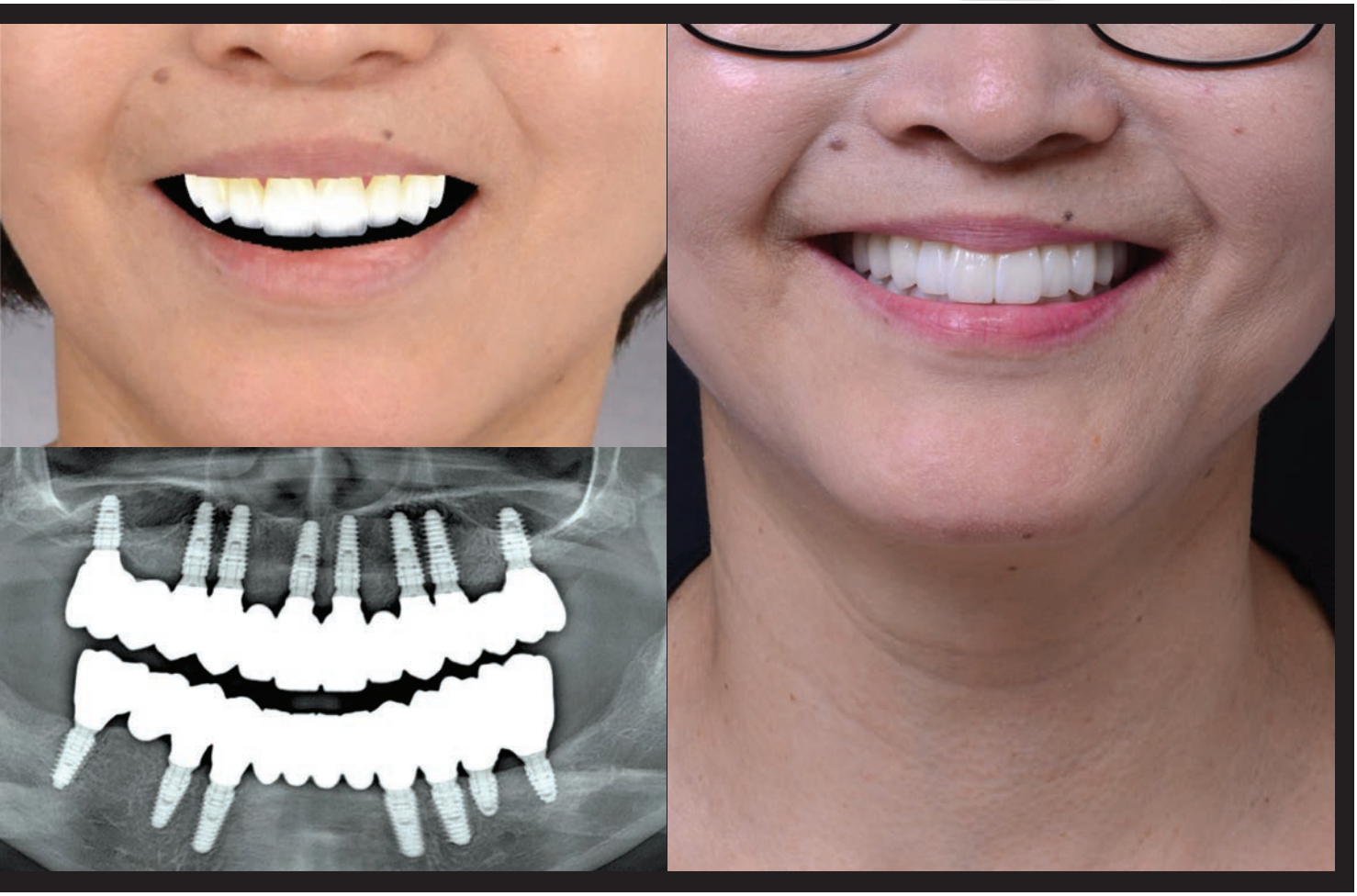
Creates a fully virtual patient & applies digital diagnosis to evaluate & transfer virtual treatment into the perfect solution

R2GATE
Digital Oral Design(DOD)

R2GATE Digital Oral Design(DOD) is a digital planner for the whole dental team, so everyone understands their role and contribution to the treatment plan.



"Imagining the final goal is
the starting point of treatment"



R2 GATE Turning imagination into reality

Adding the human element to CBCT technology

R2STUDIO™

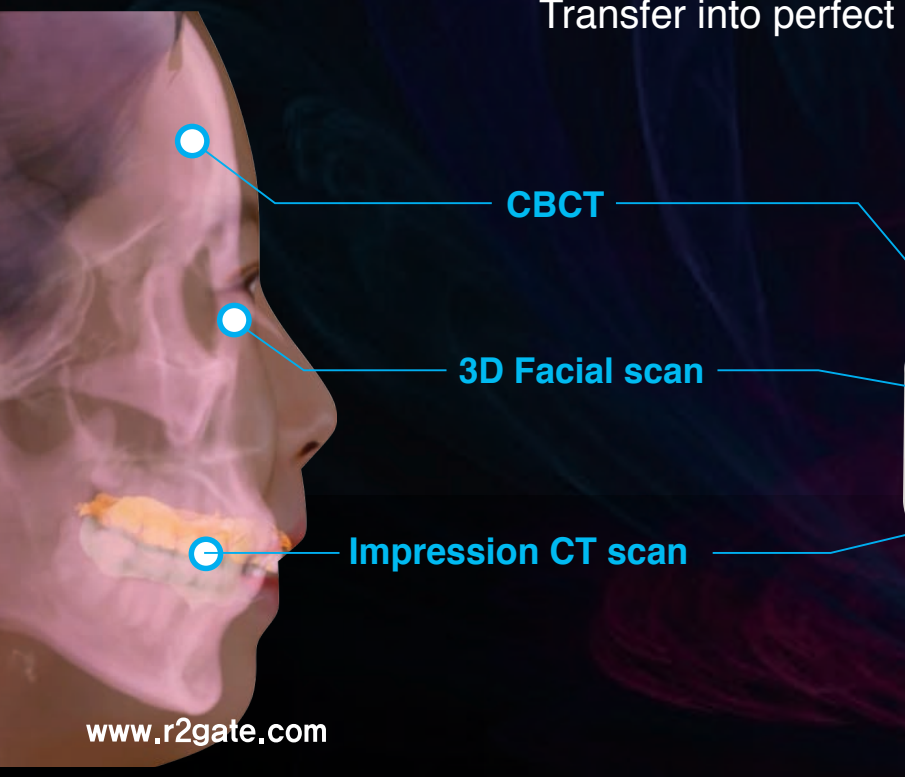
by MEGA'GEN

Contain person's sensibility & Creating the Virtual Patient

R2 STUDIO creates a virtual patient for full
digital analysis & treatment realization
All-in-one: CBCT, PANO plus facial & impression CT scans

R2GATE® Digital Oral Design

Create fully virtual patient(CBCT, facial & oral scans)
Apply digital diagnosis to evaluate virtual treatment
Transfer into perfect solutions



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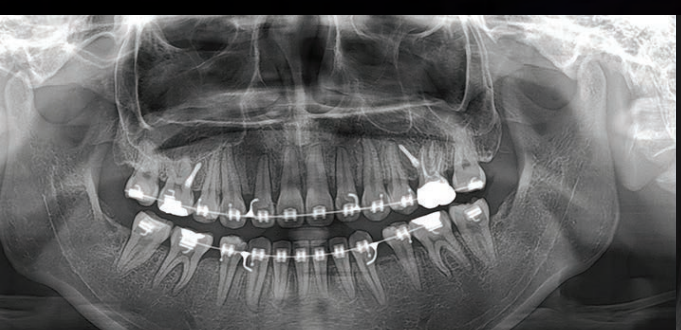
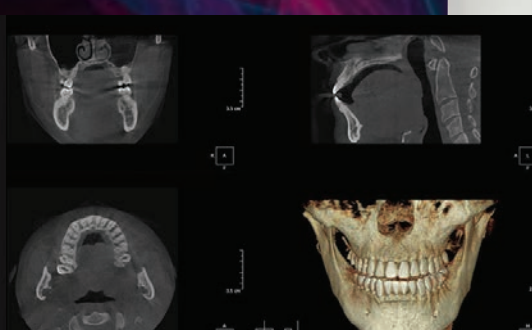
Ray

www.r2gate.com





R2GATE®

by MEGAGEN

Turning imagination into reality

SINCE 2012

What is R2GATE®

R2GATE is an innovative implant diagnostic software that analyses the oral condition and it shows the best option for implant treatment.

CBCT (Dicom)

CBCT is the most efficient method for implant diagnosis. Through CBCT, you can easily identify the shape of the bone and other skeletal structures. But it has an original distortion and not accurate enough for complete treatment planning by itself.

Digital EYE (Bone)

After intuitively checking the shape and density of bone via Digital Eye, you can obtain strong initial stability by customizing the drilling sequence.
The software also provides a guideline for whether immediate loading is possible or not.

STL (Soft tissue & teeth)

R2GATE merges the STL (3D scanning of model or impression) with the CBCT file to overcome the CBCT's limitations such as Metal Scattering and distortion.
STL intuitively shows the gingiva and neighboring teeth.

Top-Down Treatment planning

The purpose of implant treatment is to recover lost and functionless teeth.
With R2GATE, you can select the ideal position of an implant by checking the crown design, and occlusion with neighboring and antagonist teeth.

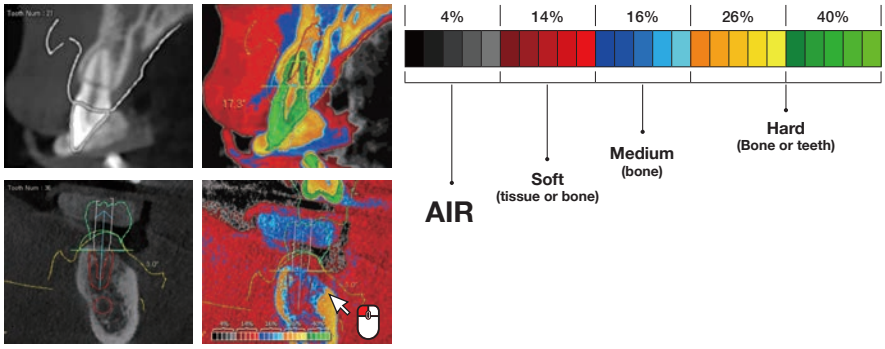
The most innovative and intuitive diagnosis software for Dental implant planning in the world.

I. Digital EYE™

Does your CBCT show you right information?

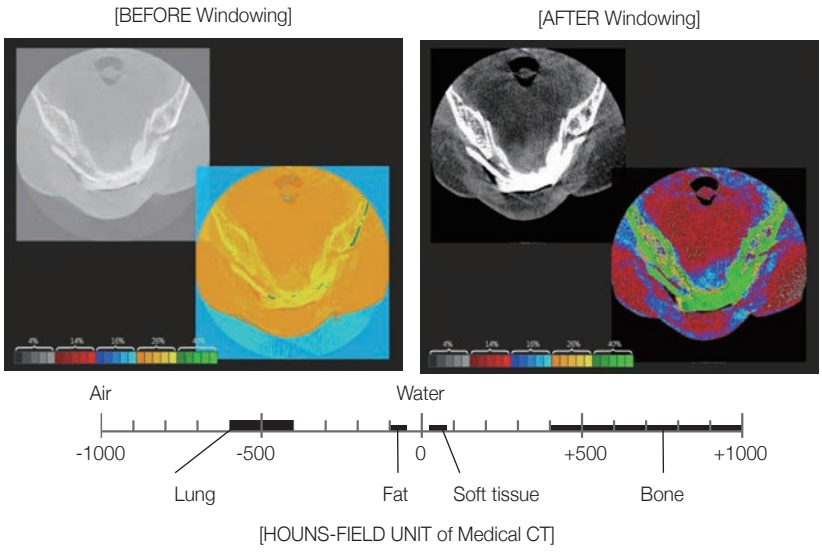
Black and White? It's only 5%

Regular black and white CBCT analyzes the data in 256-level of shades. We can only detect 16 levels with naked eyes. R2GATE's Digital EYE regenerates 256 shades into color to deliver much more detailed, intuitive bone condition.
It standardizes the brightness level that various CT equipment has and provides objective HOUNS FIELD UNIT.
It significantly differs from the color that other CT data provides. Based on this information, you can decide implant position and size and its drilling sequence for the initial stability of the implant.



Re-arrange of DICOM files for standardization.

Windowing function standardizes the brightness level that different CT equipment has and provides objective HOUNSFIELD UNIT.
It significantly differs from the color that other CT data provides.
Based on this information, you can decide implant position and size and the drilling sequence for the initial stability of the implant.



II. ONE-DAY IMPLANT™

Get your implant and prosthetics in one day!

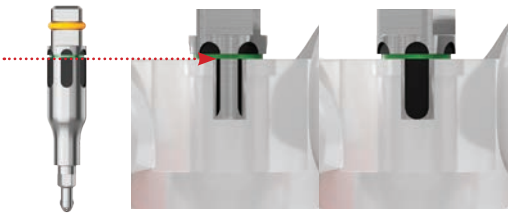
Digital EYE™

Provides the predictable indications for Immediate loading.
According to the bone density and R2GATE treatment planning, patients can have customized abutments before the surgery, and it can be placed right after the implant surgery.

Place a Fixture as it is planned

Completely connect the Handpiece carrier into a fixture, and drill it down as it is planned using your R2 Guide

a. Depth of a fixture align the upper line of Handpiece Carrier with Guide Window as [Image 1]
b. Matching internal hex of a fixture fill the window with the green part of a carrier body as [Image 2]



[Image 1] [Image 2]

Prosthetics can be manufactured as single, bridge, or screw-retained type according to your preferences.

Cementation type

- Customized Abutment
- PMMA Temporary

Screw retained type

- Ti-Base
- PMMA CAD/CAM Provisional restoration.

Over-Denture type

- Stock abutment
- Customized abutment
- 3D Printed Denture

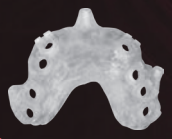
R2GATE® is already tried and trusted world wide.

Japan, China, Taiwan, Thailand, USA, UAE, Romania, Italy, Netherland, Australia, Germany, UK, Russia, Ukraina, Turkey...
Doctors are using R2GATE through out 50 countries.

R2 GATE
2013 ~ 2021

138,253
cases
Delivered to world wide

384,572
Implants



128,190
Prosthesis

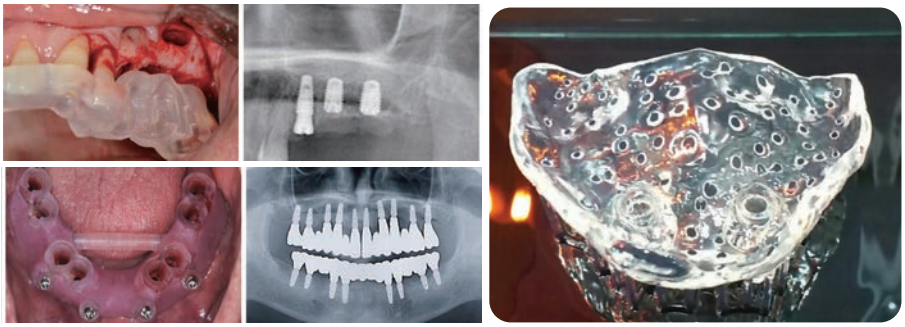
R2 Guide™

I. Advantage of R2 Guide™

Experience the most innovative implant guide surgery!
Virtual planning becomes a reality.

R2 Guide doesn't need a metal sleeve or spoons.
It has the internal-structure for drill stopper and hex controller. R2 Guide surgery is more convenient and precise.

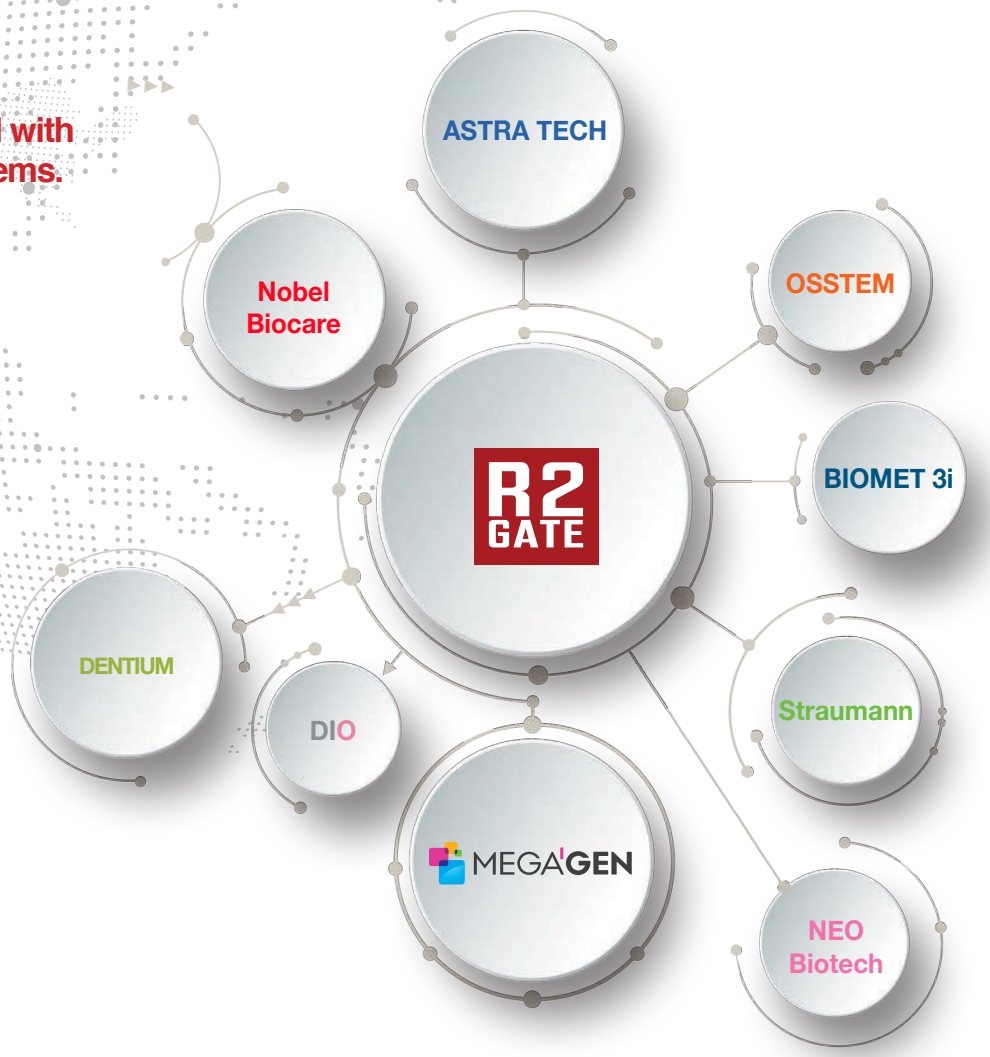
Precise R2 Guide using 3D Printer.



R2 Guides are designed directly based on your diagnosis and are printed by 3D Printer.
The unique structures of R2 Guide(for drill stopper, implant position, and hex control)are printed as one-body for improved precision and convenience.

I. Advantage of R2 Guide™

R2GATE integrated with Major implant systems.



R2 Surgical Kits are available!

Full Kit and Universal Kit are available.
The full kit consists of a complete set of drills and system-specific implant carriers.
The Universal kit consists of drills from initial to 2.8 drills for any implant systems.
The implant carrier and disposable drills may be added as your option.

R2 Full Surgical KIT (MegaGen system only)

R2 Universal KIT

▸▸ Simple and Practical R2 Universal KIT

Flexible kit for all implant systems

Simple and practical **Universal Kit**

R2GATE Universal Kit includes essential guide drills and tools that can be used for various implant systems. Final drills and other necessary tools can be added for your preferred implant system.

Add optional Tools for your preferred implant system

You can add optional tools like implant carrier, tap drill, cortical bone drill and more for your preference. Refer to MegaGen Implant Catalogue for more information.

Must have Accessory kit

R2 Narrow Guide kit for Mini System

Are you planning to use for a Mini implant? Are you worried about the surgery because of narrow surgical space? Narrow Guide Kit with ø3.5mm drill core is designed to overcome narrow surgical spaces such as anterior mandibular, narrow distance between adjacent teeth or adjacent implants.

R2 Anchor Kit

R2 Anchor kit For the fixation of fully edentulous guid

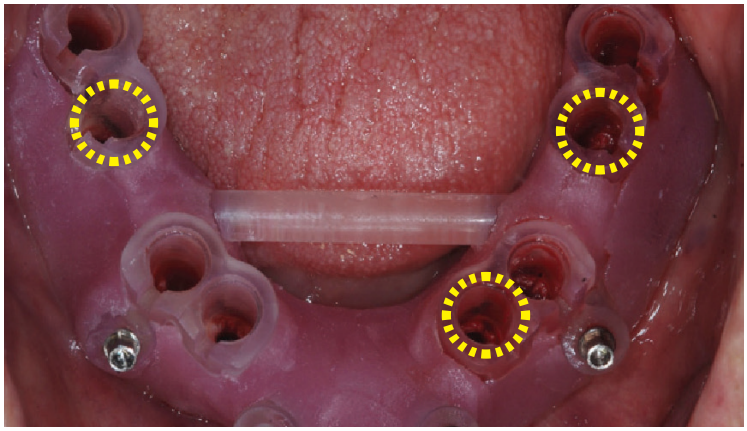
R2 Anchor Kit is used to fix fully edentulous R2 Guide in the mouth.

Anchor Pin:

Put R2 Guide and Putty Bite together and put it into patient's mouth. Let the patient bite firmly. Then, insert an anchor pin into the pin holes on the guide and fix them using a driver. If bone density is dense, Slightly drilling to penetrate cortical bone area with 2.0 x 13.0mm drill will be helpful for better fixation.

Anchor Screw:

For fully edentulous guide, placing fixtures and connecting anchor screw in a triangular form is highly recommended for better fixation as the image below.



When regular fixture and wide fixture are needed to place in edentulous case, there will be 2 set of R2 Guides for regular fixture and wide fixture placement. Anchor screw will provide same position of fixation for both of R2 Guides.

II. R2 Guided Surgery

1. Preparations for R2 Guide™ Surgery

❶ Package check

Check what are contained in the delivery package received from R2 Design Center.

Prosthetics type
ZA : Zirconia customized abutment
PR : Provisional restorations

Patient's name

R2 Guide™ type
R : Regular core R2 Guide™
W : Wide core R2 Guide™

Patient's name

❷ Received two R2 Guide™?

Do you plan to place a wide diameter fixture ? One is for regular diameter of drills and another is for wide diameter of drills & fixture insertion.

All diameter of general drill hole(core) and guide part of drills are 5.0mm. So from 3.5 to 4.5 diameter fixture can be placed through general drill hole. But In order to insert wide diaeter fixture (over the 5.0mm), drill hole(core) should be made for wide diameter drilling and fixture insertion.

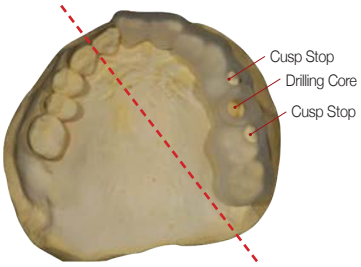
Drilling sequence:
Up to 4.3mm diameter of drilling, use the regular hole R2 Guide™ (marked "R"). Then that change to wide hole R2 Guide™ and continue to drill with bigger diameter drills.

❸ Sterilization for R2 Guide™ and prostheses

Put the R2 Guide™ and all prosthetics into a bowl (jar) with an antiseptics (ex. Chlorhexidine Gluconate) for 30 minutes before surgery.

▸▸ Types and retention of R2 Guide™

1. Tooth - supported type

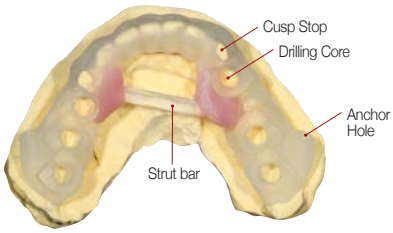


[Minimum size of model] Even it's tooth support type R2 Guide™, 3/4 arch model is required for design and accurate retention.

1~4 implants The residual teeth are still remained around the implantation site. The Main retention of R2 Guide™ comes from the remaining teeth. So, with the larger number of remaining teeth, retention will be higher and more stable. The damage and porosity of the remaining teeth on the model are not acceptable for the design of R2 Guide™ and its adaptation.

∗ Cusp Stop : To check the accuracy of R2 Guide™, Designer makes a few number of "Cusp stopper" on the cusp of the mesio-distal neighbor teeth. When R2 Guide™ is seated, check its fitness of contact between cusp and hole. There should not be a gap.

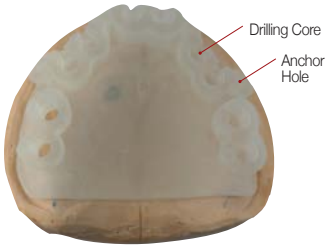
2. Dual - supported type



Free-end case Most of the free-end case, R2 GUIDE™ gets the retention from a remaining tooth and residual ridge. All anatomical forms of teeth, alveolar ridge, vestibule should be represented clearly on the model.

∗ Anchor Hole : The anchor hole can be designed for additional retention. The location will be decided during diagnosis and confirmed by user. Ø2.0 drilling might be required to insert anchor pin into the hard bone. (Maxillary anterior, Mandibulary regions).

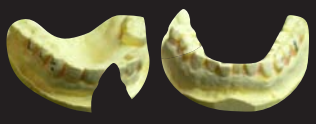
3. Fully tissue - supported type



Fully edentulous case In the fully edentulous case, R2 Guide™ gets the support from the residual ridge and gets the retention from anchor pins. All anatomical structure (palatal, vestibulare) should be represented clearly on the model.

∗ Putty bite : Right initial positioning of R2 Guide™, putty bite will be provided. Combine putty bite and R2 Guide™ first than put it in the patient mouth together. Let the patient bite it strong and insert the anchor pin into each hole.

The distortion of the model is an important factor of the error on diagnosis and R2 Guide™. Please understand checking point of R2 Guide™ fabrication, and try to make accurate impression and model.

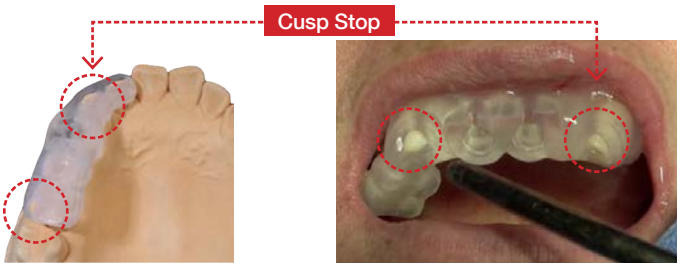


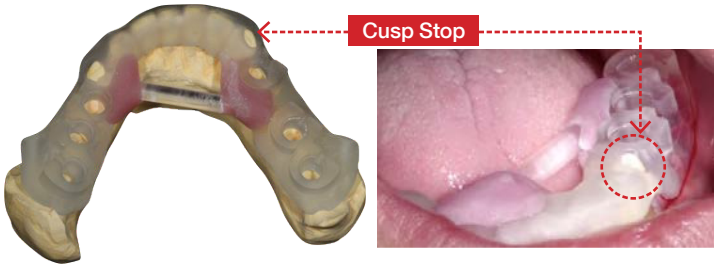
2. Adaptation of R2 Guide™ before surgery

This procedure is essential to check the accuracy of R2 Guide™.

❶ Tooth & tissue supported type

Check the "Cusp stop" of R2 Guide™ To check the accuracy of R2 Guide™, our designer makes a few number of "Cusp stoppers" on the cups of the neighboring teeth. When R2 Guide™ is seated, check its fitness between cusp and R2 Guide™ hole. There should not be any gaps.





❷ Fully tissue supported type

Putty bite and Anchor pin For an edentulous case, R2 Guide™ is seated using the putty bite and fixed with anchor pins specially designed for R2 Guide™ positioning.

1. The connected R2 Guide™ and the seating jig are delivered into the mouth together and seated.
2. Patient should bite with maximum occlusal force on the R2 Guide™ and seating jig.
3. Tighten the anchor pin using a hand driver.
4. 2.0mm drilling will be required in advance if the drilling point have a thick cortical bone.

3. Necessary items to produce R2 Guide™

❶ R2 Tray used for taking CBCT

R2 Tray SE

- Tools for trimming the stopper in R2 Guide
- 10ea 1set

Ref.C
R2TRAYSE

❷ Hole trimmer set for R2 Guide trimming

Stopper trimmer

- Tools for trimming the stopper in R2 Guide

Thread	Guide Diameter	Ref.C
Narrow	Ø3.5	AGHTN2
Regular	Ø5.0	AGHTR2
Wide	Ø6.5	AGHTW2

Hole trimmer

- Tool for trimming guide holes in R2 Guide

Thread	Guide Diameter	Ref.C
Narrow	Ø3.5	AGHTN3
Regular	Ø5.0	AGHTR3
Wide	Ø6.5	AGHTW3

Reamer Handle

- For length extension by connect to trimmer

Ref.C
TCMRH

❸ Stent sleeve for guide

Stent Sleeve

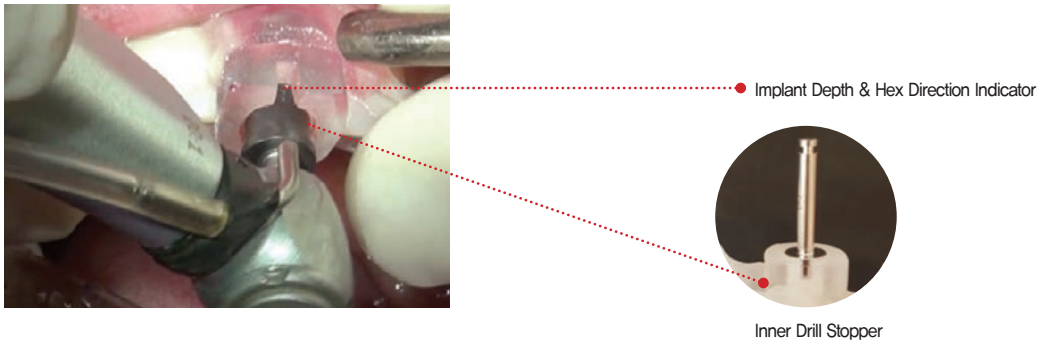
- Stent sleeve for MegaGen implants in 3shape(implant studio) software
- 10ea 1set

Thread	Guide Diameter	Ref.C
Narrow	Ø3.5	R2SS35P
Regular	Ø5.0	R2SS50P
Wide	Ø6.5	R2SS65P

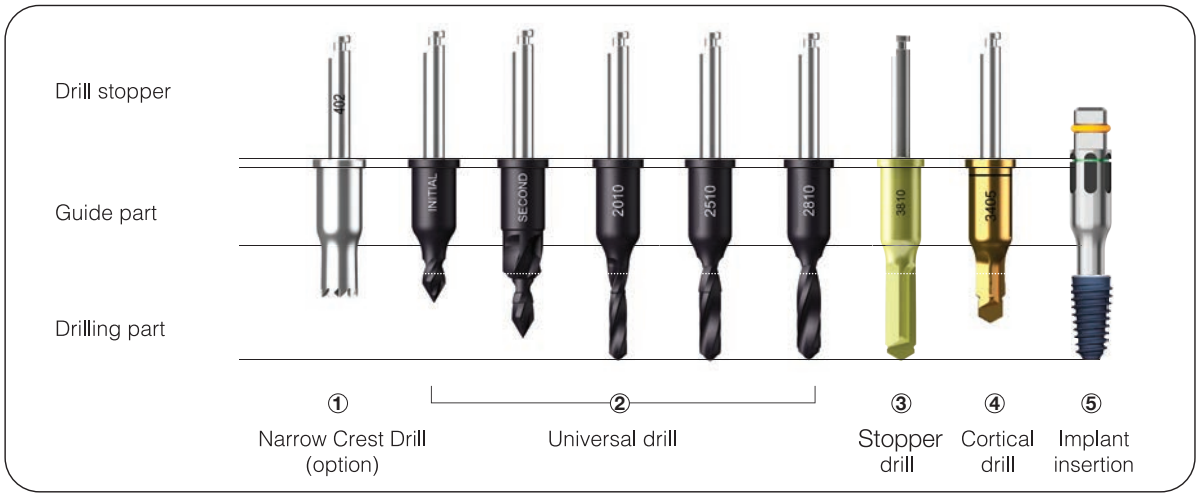
4. Basic principles of drilling with R2 Guide™

No spoons, No sleeves
Our guided drill design does not need spoons or sleeves

All of our drilling components from initial drill to implant carrier are designed as guide and drilling part.
You do not need any additional sleeves or spoons, to shorter the surgery time.



Drilling Protocol

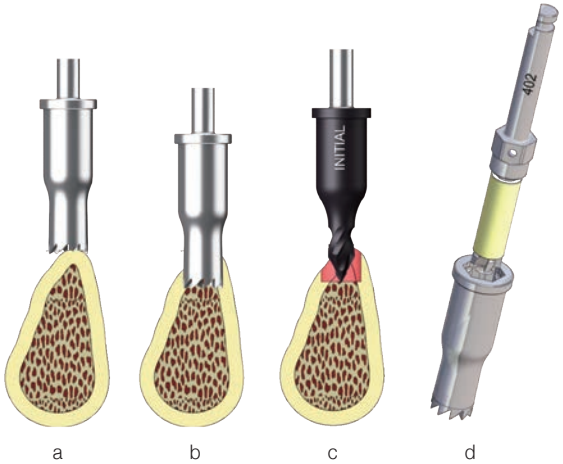


Narrow Crest Drill
for narrow or steep alveolar ridge.

If a regular drill is used on narrow or steep alveolar ridge cases, a drill may slip and the drilling path will be made in the wrong direction. In this case, use a narrow crest drill first and flatten the drilling area to prevent slipping.

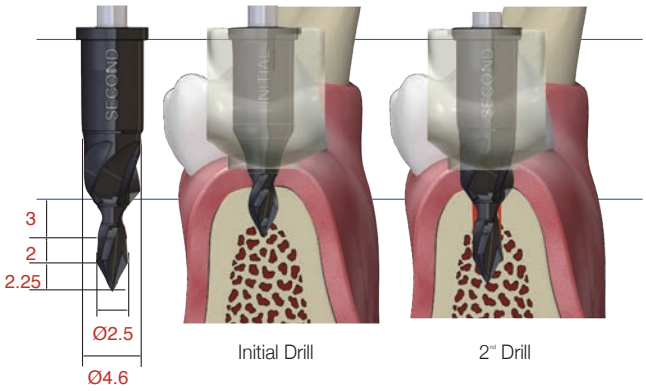
How to use the Narrow Crest Drill.

a. Counter-clockwise: Engage the blade onto the ridge by rotating a drill with less than 100 RPM
b. Clockwise: Drill with 400~600 RPM
c. Start a drilling sequence with initial drill
d. You can collect bone by separating the drill body after drilling



Initial & 2nd Drilling

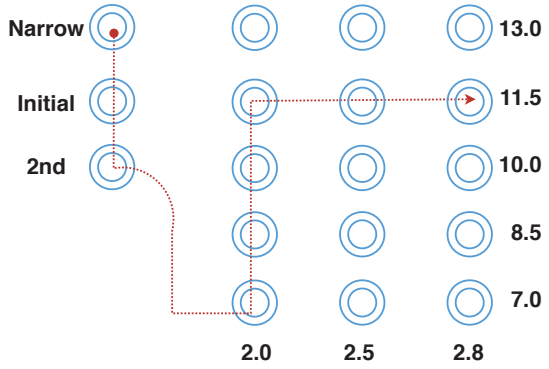
The 2nd drill also works as a profiler drill which removes excess bones above the fixture platform for a better has connection of prosthetics. If bone density is dense or high resistance during drilling, stop 2nd drilling protocol and repeat 2nd drilling protocol right before fixture placement.



Crucial Step: Basic drilling

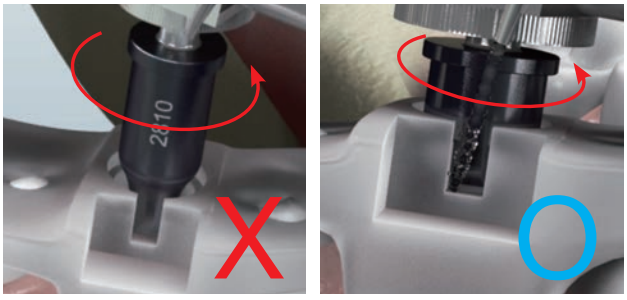
Narrow Ø2.0 diameter drilling is very important to complete the coronal path of the drill. Especially when the guide core is short due to thick gingiva, gradual drilling to secure the depth of a fixture is essential for successful surgery.

Eg) When placing a 11.5mm length fixture
Narrow drill ► initial Drill ► 2nd drill ► 2.0x7 ► 2.0x8.5 ► 2.0x10 ► 2.0x11.5 ► 2.5x11.5 ► 2.8x11.5 ► Final drill ► Cortical bone drill



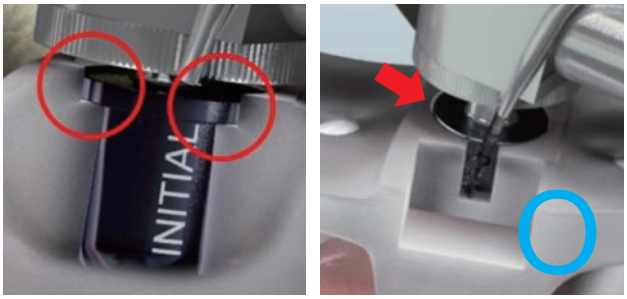
Slow drilling in a Drill Core

Before drilling, you have to check the guide part of dirll to be inserted into the drill core of guide compeletely. when drill is in right postion, start drilling with recommended RPM [300 ~ 500 RPM]



Slow UP & DOWN Motion

Drilling must be done in the order of increasing the depth of osteotomy and then widening the diameter according to the suggested drilling protocol. Keep repeating up and down motion slowly until the drill stopper touches the stopper position on the guide.



Deliver Fixture as planned

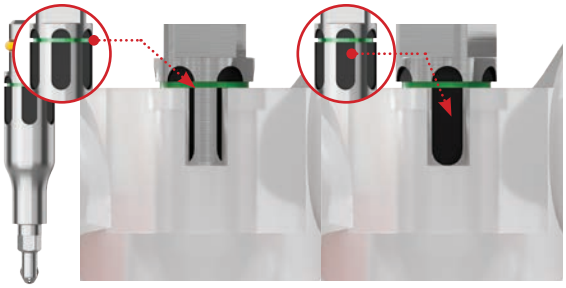
Make sure to connect Handpiece Carrier onto a fixture and deliver it through the R2GATE Guide as planned.

a. Fixture depth control

Align the upper line of the Handpiece Carrier with the Guide Window as [Image 1]

b. Hex position control

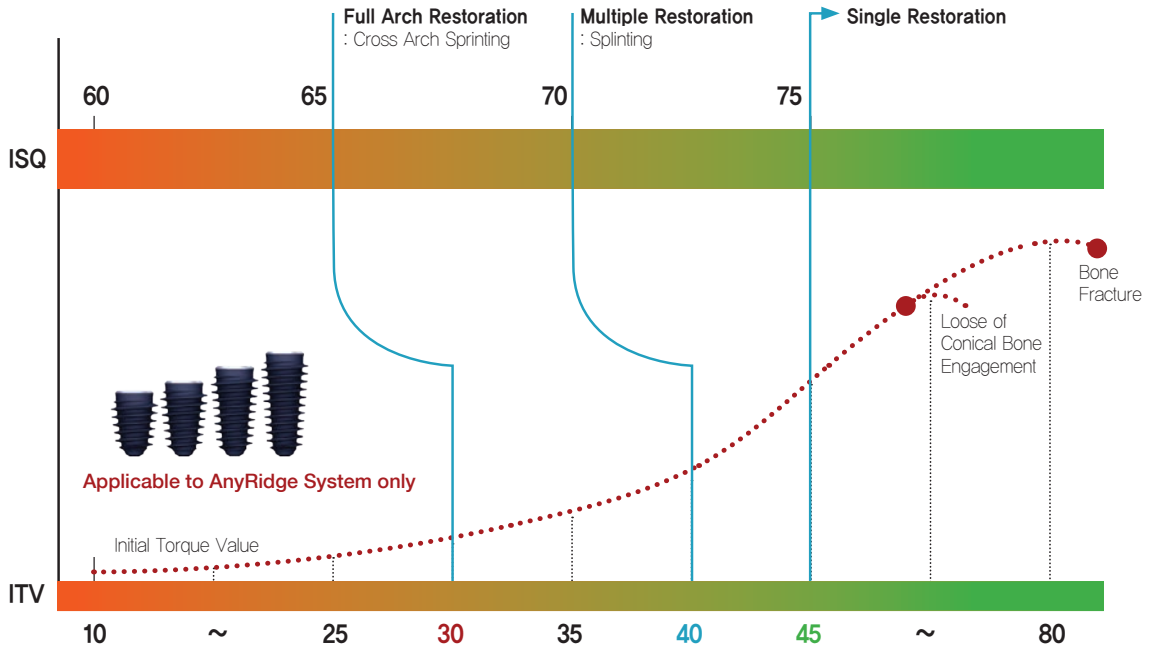
Align the green part of Handpiece Carrier as [Image 2] to make hex position in buccal direction.



[Image 1] [Image 2]

We provide a general standard for immediate loading [ISQ & ITV]

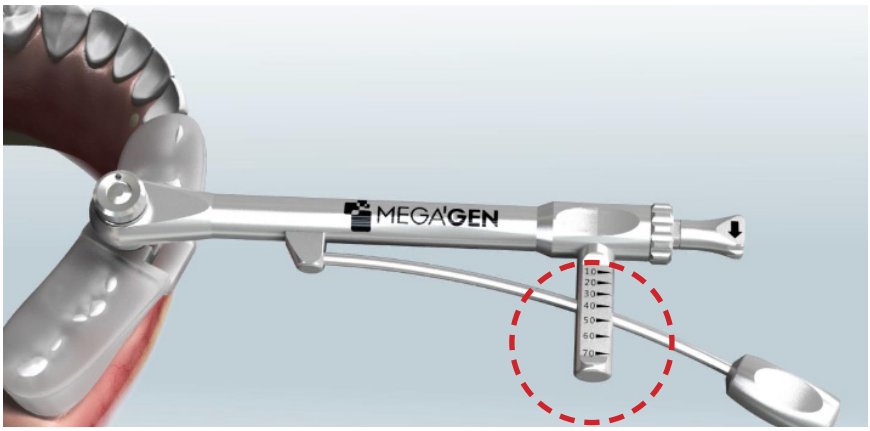
If you use AnyRidge System, the recommended ITV (Initial Torque Value) and ISQ (Implant Stability Quotient) for immediate loading are ITV = 45Ncm/ISQ=75 or above. These values are only for the AnyRidge system and cannot be applied to other systems.



5. Recommended condition for ONE-DAY IMPLANT & immediate loading

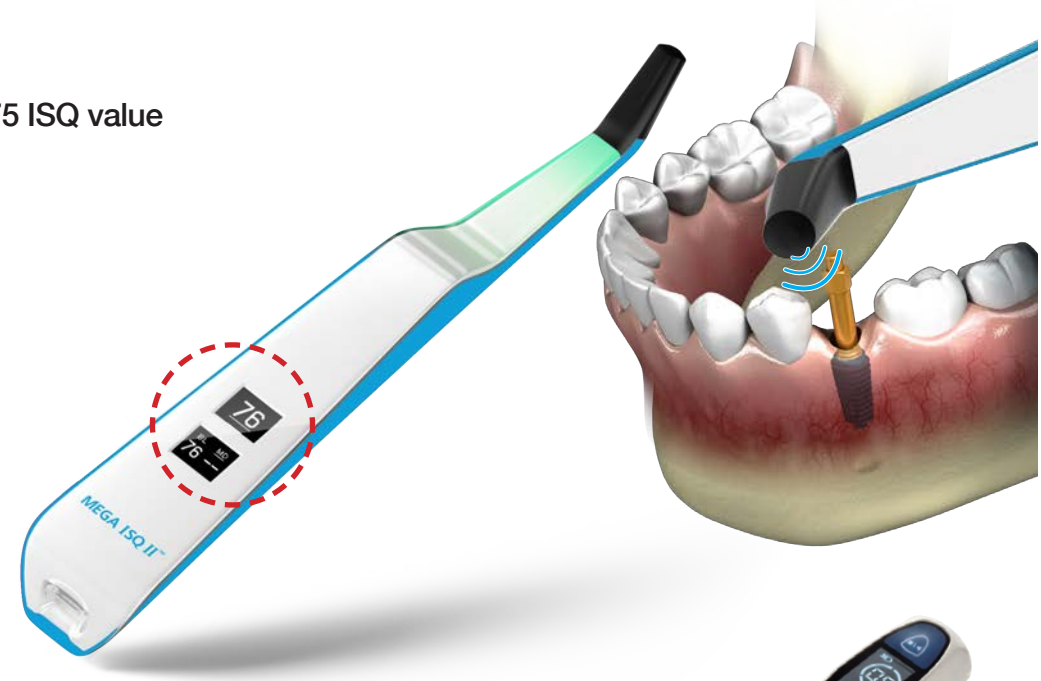
According to our own clinical experiences & data, we strongly recommend to check two values : Insertion Torque & ISQ value.

1 Insertion Torque value :
more than 45Ncm



Available on our R2 Universal Kit.

2 ISQ value:
more than 75 ISQ value



R2 Digital Center

To have stable ISQ value, we recommend to use MEG-TORQ to fasten a smartpeg with 5 Ncm torque force consistently.

R2 GATE Turning imagination into reality

Moment of Choice!

R2GATE®

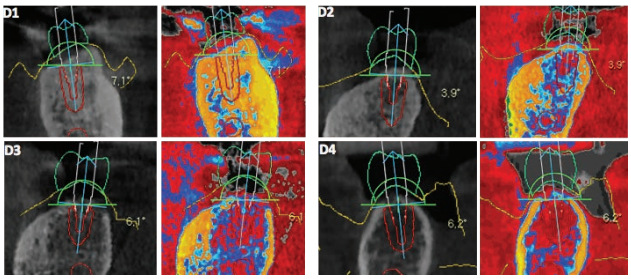
by MEGA'GEN

Experience the future with **R2GATE®**

Blue pill...
stay in the present

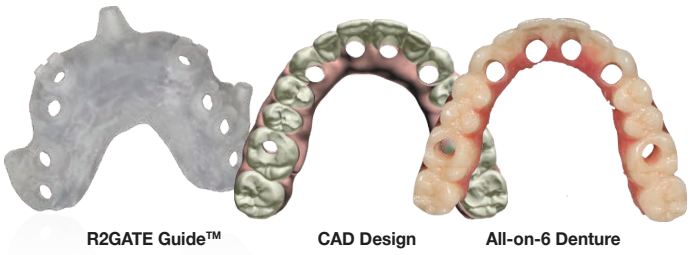
Digital EYE™ ;
Color-coded analysis of bone morphology & density

Although CBCT uses 256 shades of B&W, the human eye can only detect 16(6%). Therefore, Digital EYE converts the CBCT shades into full color with a standardized brightness, allowing intuitive analysis of the bone condition to position & size the implant, determine the drill sequence, and predict the initial stability for immediate loading(ONE-DAY IMPLANT™).



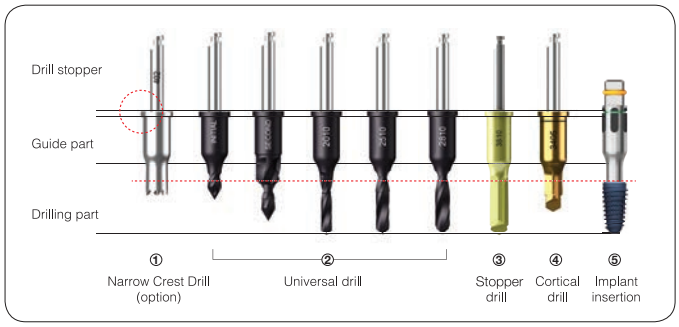
Creating the reality of ONE-DAY Teeth & Digital All-on-4(6)

- accurate diagnosis
- reduced chair-time
- minimally invasive surgery
- immediate loading using digital prosthesis
- excellent clinical results



Convenient drilling system

- All drills combine drill, guide, & drill stopper into one-body
- No need for metal sleeves or spoons!
- Shorter surgery time!
- Disposable final drill provided for each surgery to optimize initial stability



Compatible with all major implant systems

Significant cost savings!

R2 Digital Center

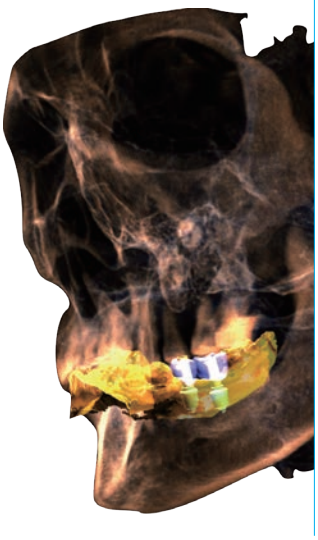
I. Various R2GATE Services

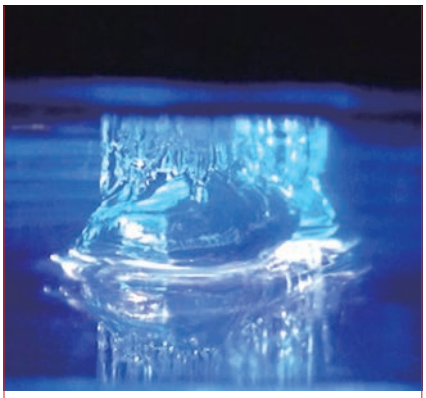
We provide various R2GATE Services. Enjoy them conveniently.

R2GATE® Planning Service

Optimal Implant positioning basis on the TOP-Down concept.

R2GATE allows you to do Prosthetic driven Treatment Planning for optimal positioning of the implant. It provides an eidetic view of all elements that you need for implant practice as CBCT, STL, and Prosthetic design before surgery





R2 Guide™ Service

Realize the Tx.planning perfectly.

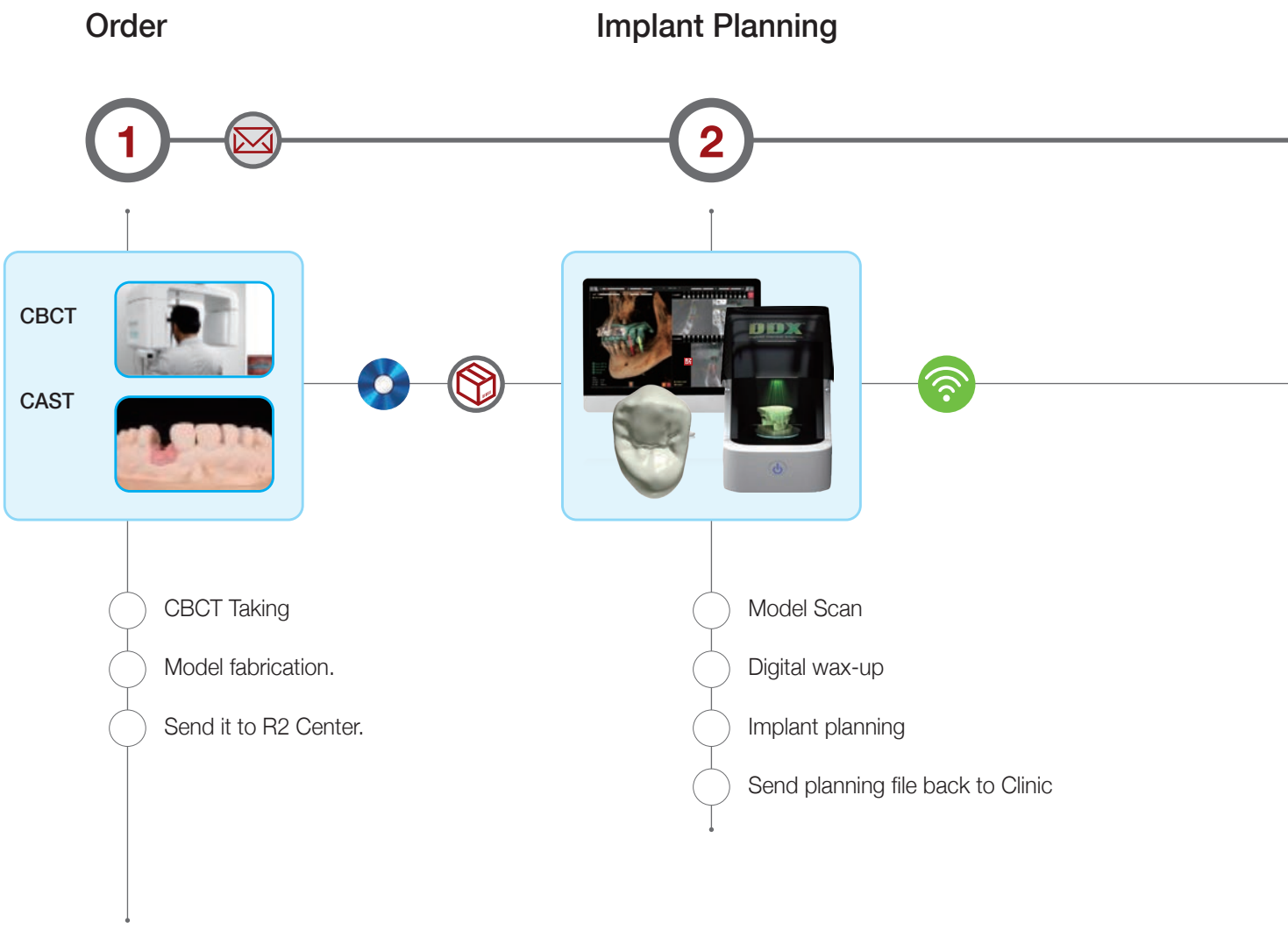
The surgical guide will be made using state of the art 3D printing technology with the result of Tx.planning. R2 Guide completes your daily implant practice without uncertainty.

R2GATE®

ONE-DAY IMPLANT® service.

Under certain conditions, various prostheses may be delivered on the same day as surgery. Recover function & aesthetics immediately!

II. R2GATE Order process



Caution!

Ask R2 Tray to local R2 Digital Center before placing an order

If a patient is partially edentulous or if there are multiple teeth with metal fillings or restorations, R2 Tray must be used. R2 tray must be sent to R2 Digital Center along with study models and bite registration.

Simple order process : R2GATE Service is very simple,
fast and cost effective.

We have world-wide R2 Digital Center network. Please contact to nearest Digital Center or MegaGen distributors at applicable countries.

User Confirmation

3

- Download project file to R2GATE Lite
- Open project file.
- Modification or confirmation

Manufacturing

4

- R2 Guide Design
- 3D Printing & trimming
- CAD/CAM

Delivery

5

- Packaging
- Delivery

Your confirmation is the most important to shorten the delivery time.

Diagnostic information sent to R2GATE lite can be confirmed.
Corrected and approved data are saved
as project files and transferred to the R2 Digital Center
R2GATE Lite is the essential option for you.

R2GATE Lite™

Meet the most innovative implant diagnostic software program in the most innovative way!

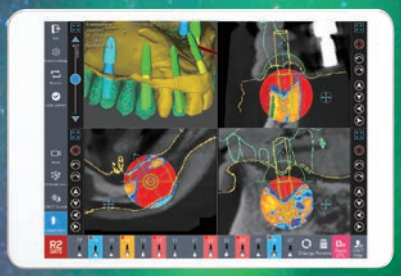
Whenever, Where-ever!

Diagnostic information sent to R2GATE Lite can be confirmed by the dentist immediately. Corrected and approved data are saved as project files and transferred to the R2 Digital Center in real time.

Communication with R2GATE Lite™

Throughout consultation about implant treatment with a patient, ensuring the patient clearly understands their oral condition and the future possible outcome of the treatment is a major factor in assuring patient satisfaction. Using R2GATE Lite on IPAD, the doctor can easily show the visual information on treatment planning from diagnosis through to the optimal treatment.

Communication and Design efficiency

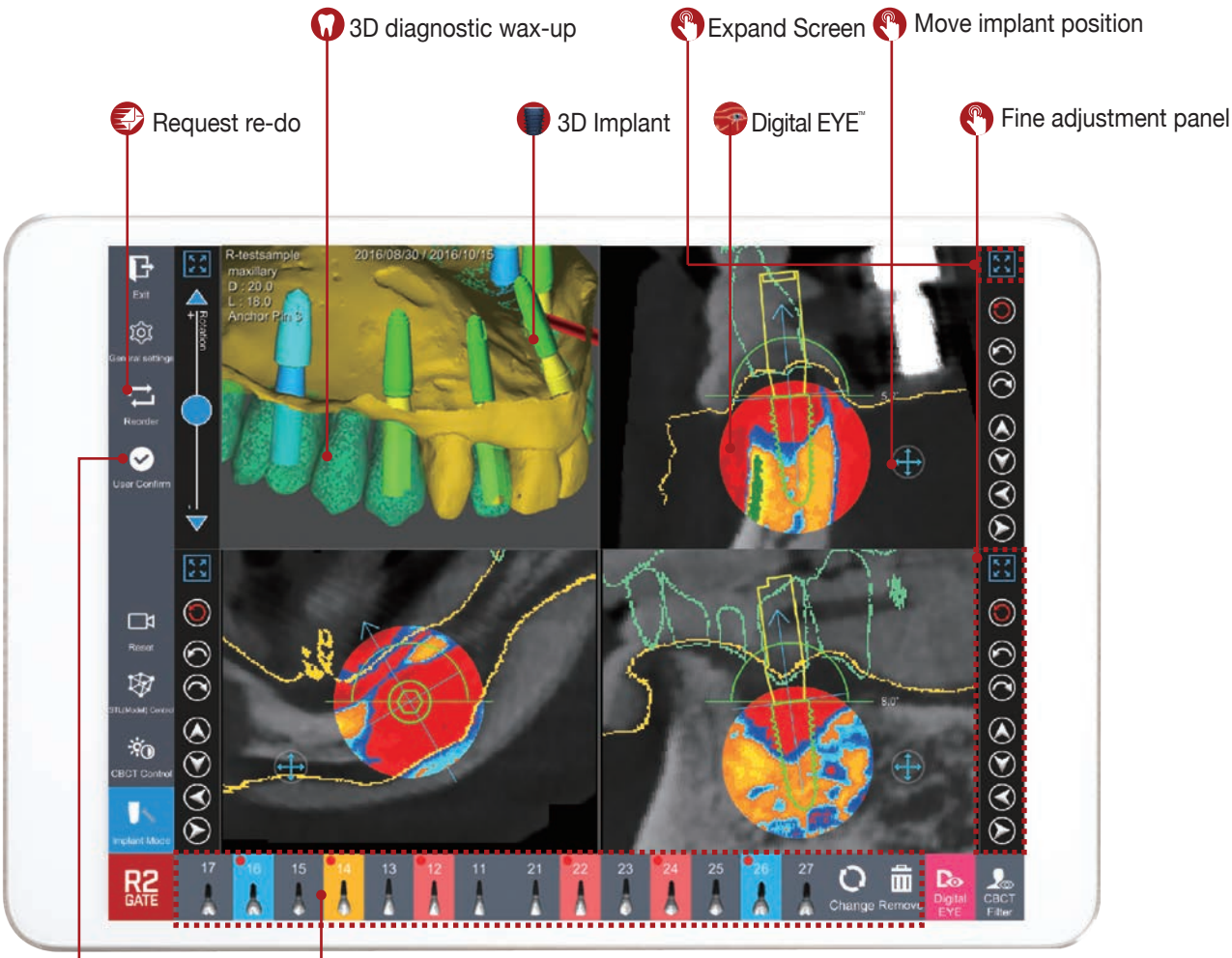


With R2GATE Lite, everywhere it becomes your clinic for you & your patients. You can check, edit, confirm, or send a file to R2GATE Design Center at anytime, and anywhere.

the world's first
Mobile Diagnostic Software

R2GATE Lite™

R2GATE Lite™
Light and Upgrade



Case Confirm

Select or Edit Implant

You can easily select, add, remove, or modify an implant. Using the international teeth numbering system, you can edit an implant that is currently loaded on the planning.
Pink represents an implant that is already planned, yellow indicates selected implant.
Blue indicates implant newly created implant by user.
Red dot in the selected implant indicates that user has modified the size, position, or angle from initial loading stage.

- Expand screen
- Initialize
- Tilt to left
- Tilt to right
- Move upward
- Move downward
- Move left
- Move right

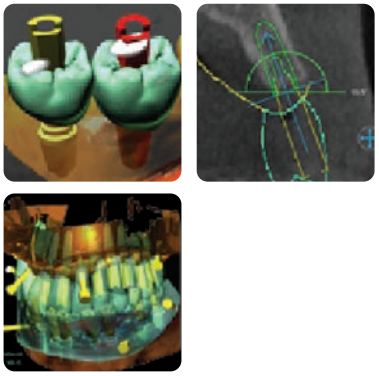
Check
√ Diagnostic wax up
√ Implant position
√ Digital EYE™ - Bone density

Modify
√ Implant position & controls

Confirm
√ Touch to order R2GATE GUIDE

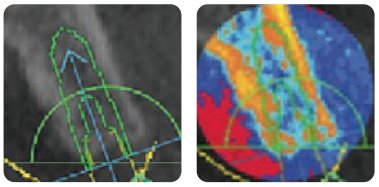
3 essential key factors for implant diagnosis : Bone, soft tissue, teeth

For an ideal implant treatment, cortical bone, soft tissue, and prosthetics must work together.
R2GATE intuitively analyzes and shows the condition of cortical bone and soft tissue, and optimate prosthetic outcome for ideal treatment planning.
For multiple implant cases especially, the distance between implants/platform level and the implant axis angle can be easily understood beforehand for simpler treatment and prosthetic procedure.



Digital EYE™

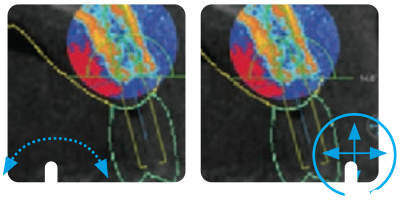
Standard black and white CT analyses the data in 256 shade levels, but human eyes only detect 16 levels with the naked eye.
R2GATE Digital EYE regenerates 256 shades into color to deliver a much more detailed and intuitively understandable guideline of the bone condition.
Also, it standardizes the brightness level that each CT equipment has and provides an objective Houns Field Unit. This significantly differs from the color that other CT data provides.



Easily shift, zoom in, zoom out, rotate with your finger

Easily change the position of the implant wirh your finger.

- Implant rotation: Lightly touch the screen and drag to rotate the implant.
- Implant shift: Lightly touch the ⊕ sign from the lower part of the screen, and drag to move the implant position.
- Zoom in & out: You can easily zoom in & out by using two fingers. Please use the “Moving Key” on the right corner of the screen if accurate adjustment is needed.



Fast and easy diagnosis check

You can confirm the diagnosis immediately by using the "User Confirm" function, or you can send the changes to the center. If you need to revise the model or the implant placement site, you can use the "Diagnosis Reconfirm" function to conveniently receive the diagnosis again.

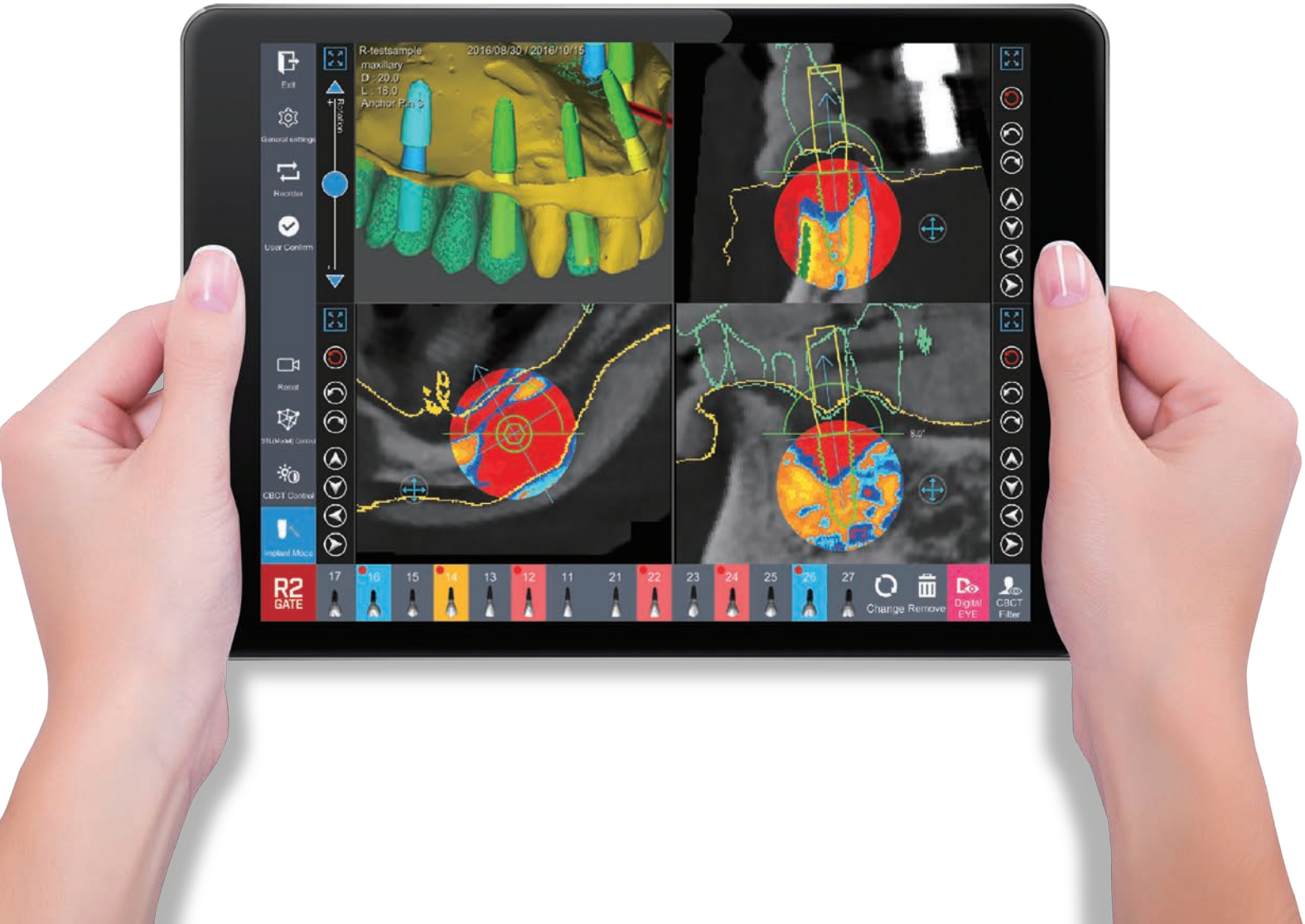
Auto detecting
All the information that you have done through R2GATE Lite is automatically saved, and all confirmation or modified data will be sent to R2GATE Design Center.

R2GATE Lite™

Meet the most innovative

implant diagnostic software program in

the most innovative way!



Clinical Case Report

Turning your imagination into reality

- Diagnosis & Treatment planning with R2GATE® and the clinical result
- Understanding and Purpose of Surgical Stent Surgery
- Clinical cases using an R2 Guide™ (1)
- Clinical cases using an R2 Guide™ (2)

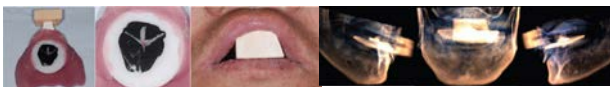
- Author : Dr.Jong Cheol Kim (The investor of R2GATE®)

1. Diagnosis & Treatment planning with R2GATE® and the clinical result - *Dr. Jong-Cheol Kim*

Implant surgical procedure using guided static surgery

A 68 year old patient presented with the necessity of full mouth reconstruction. Unfortunately, he suffered from pneumonia and had to be hospitalized for about 6 months before the implant surgery. There was partial maxillary bone loss as shown in the panorama below taken before surgery. The patient would need GBR procedure to recover lost bone. At a late stage, the patient and his family changed their minds, preferring minimally invasive implant surgery after the long-term hospitalization due to pneumonia. In this situation, flapless surgery would offer the least invasive option if no GBR treatment was to be carried out. In this case, direct surgery would not be possible, and a blind technique would be required. Under such conditions, most doctors would want to simulate the surgery using all available options - CT images, prognosis program and customized guided drills. This is the story of an approach to guided static surgery converging CBCT (a media device) and CAD/CAM technology through this clinical case.

These are the photos and panoramas of the patient's oral cavity after 6 months hospitalization. We need to take alginate or rubber impressions for a full mouth reconstruction using guided surgery. The plaster model is the sent to a digital center which produces the stents. 3 different materials based on the plaster model are sent back to us. Using a wax rim, the operator will decide the implantation position of the upper central incisor, and mark the extension line connected to central line of the face. The facial soft tissue can also be controlled and the bite plane of the deployment angle can be decided by editing the wax rim. We can refer the arrangements of the stent from these procedures. The position of the CR and vertical dimension are decided with a Gothic arch attached to the plaster model. We can decide the so called 'verti-centric' with a Gothic arch.

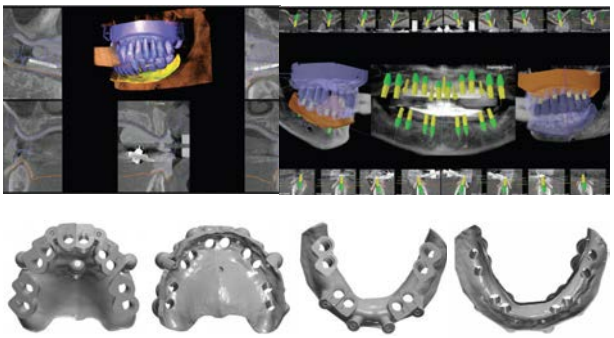


These pictures show the Gothic arch traces that indicate the movements of the mandible and the stable mandibular position. Proper VD (Vertical Distance) has been decided. Bite material will be poured into the oral cavity with the Gothic arch to record the 'verti-centric', then a CBCT image is taken. The pictures to the right are the CBCT photos with the Gothic arch. Preparation is now complete.

CBCT images are sent to the digital center server online, the Gothic tray containing verti-centric movements, the plaster model and the wax rim with facial information will be also be sent by regular mail. Specialists at the digital center will start mounting on an Articulator based on the received materials. These pictures show the model mounting procedure. The maxillary and mandibular plaster models, the inter-maxillary space and the wax rim information can be digitalized using a dental scanner.

These pictures show the diagnostic wax-up made based on scanned materials by Dental CAD saving a lot of time. All the information regarding the diagnostic wax-up can be opened as a file on R2GATE® program.

The principle of R2GATE® developed by Megagen implant Co., Ltd. is layering the DICOM (CBCT) image and the STL file (attained by scan and CAD). By layering the images, we can simulate the implantation based on the prosthetic appliance position seeing the diagnostic wax-up, the plaster model image and the bone condition at the same time. This makes mock surgery using the 'Top-Down treatment' idea possible. The operator's surgical concept can be simulated using two- and three-dimensional images. Below pictures show the simulated implantation of 10 maxillary teeth and 8 mandibular teeth. Another advantage of R2GATE® is the actualization of the mock surgery results as opposed to other CT viewers which only check the result via a monitor. This simulation result can be extracted as a file that can be used to design with Dental CAD.

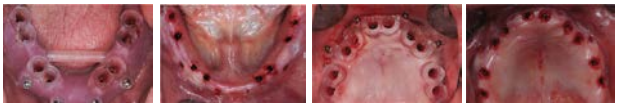


These pictures show the full denture drilling guide designed based on the sources from digital CAD. Not only the drilling guide holes, but also the pin holes needed to fix the stent can be designed. In addition

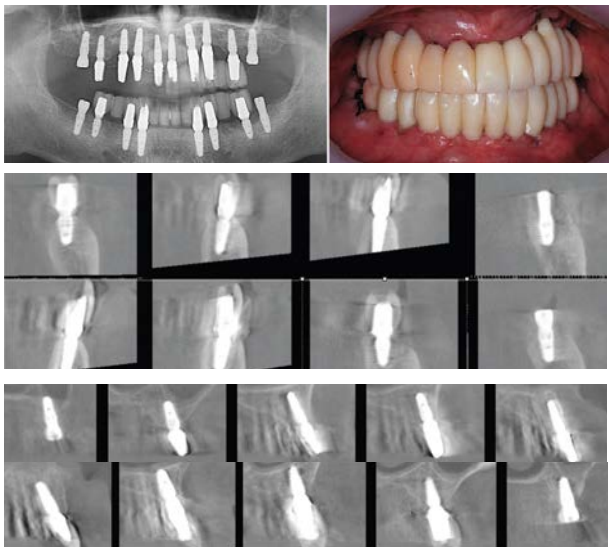
MegaGen's R2 Guide™ is very accurate

the customized abutment and prosthetic appliance can be designed. This means we can recover function and aesthetics immediately by placing the upper prosthetic appliance (if the case of suitable ISQ value) because an upper prosthetic appliance fitting exactly to the implants placed through the customized drill guide can be produced in advance. The CAM method currently attracts more users than CAD. CAM has 2 different ways of manufacturing - milling or 3D printing. This will be expanded in the following pages.

These pictures show the maxillary and mandibular implant drill guides produced by 3D printing. The pictures below show the customized zirconia abutments and temporary crowns produced by milling. As a result, the dentist can receive a drilling guide and a maxillary prosthetic appliance, and may decide whether to connect the maxillary prosthetic appliance or not depending on the ISQ value. The bone can be drilled through the fixed guided stent using anchor pins as you see in the pictures below. This shows the result of flapless minimally invasive implant surgery.



Panoramas and pictures of 10 implants placed using a maxillary stent in the same way. The customized zirconia abutment and the temporary crowns produced in advance were placed after observing a satisfactory ISQ value.
The satisfied CT results can be observed.



Maxillary CT after the surgery

You can check the satisfactory CT results.

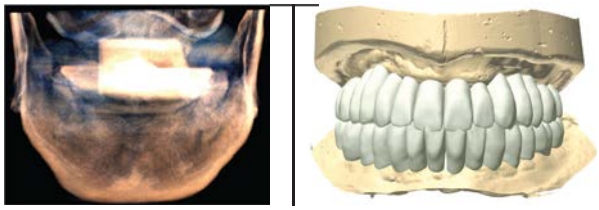
We produced the final prosthesis after 3 months. At this time, the mandible has zirconia abutments and temporary PMMA crowns have been placed in the mandible to allow further recovery of the patient.

This shows panoramas and standard radiographs at 1 month after the final prosthesis was placed. This has been a brief introduction to the general process of guided static surgery using R2GATE®. Due to time & space limitations, this is only an overview - we hope you will be stimulated to ask for more information about R2GATE® and CAD/CAM. Over the following pages, we will elaborate on the explanation and focus on the prognosis before surgery with R2GATE®, on surgical simulation, and hope that the whole process will be clear.

2. Understanding and Purpose of Surgical Stent Surgery

- *Dr. Jong-Cheol Kim*

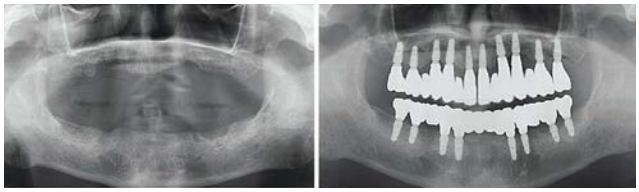
As you can see on the previous pages, R2GATE®'s virtual simulation has the advantage of combining DICOM (CBCT) and STL files enabling the depiction of the overall status of the patient with real time digital videos before commencing surgery. This handy function means that dentists can decide the optimal position for placing implant fixtures and allow a quick overview of the diagnostic wax-up, the soft tissue and the bone. In other words, virtual simulation has reached an outstanding level for finding implant positions as close as possible to real surgery using CAD/ CAM. A simple schematic diagram follows below.



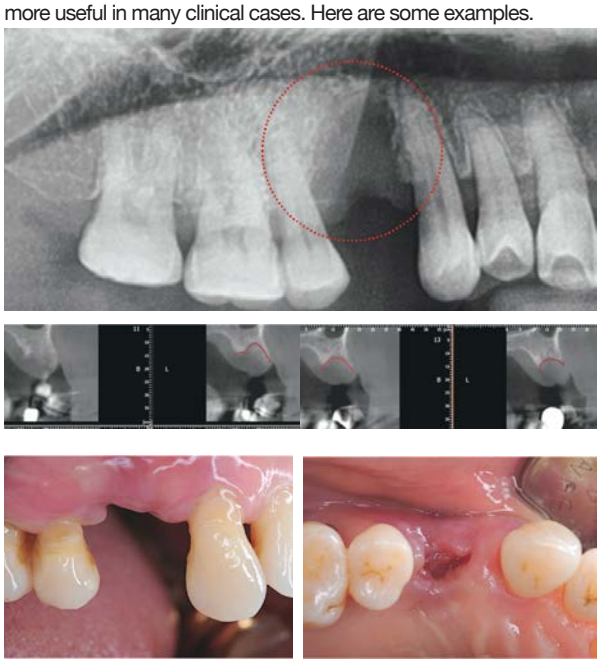
CBCT
DICOM:Digital Imaging & Communications in Medicine

STL
Standard Tessellation Language

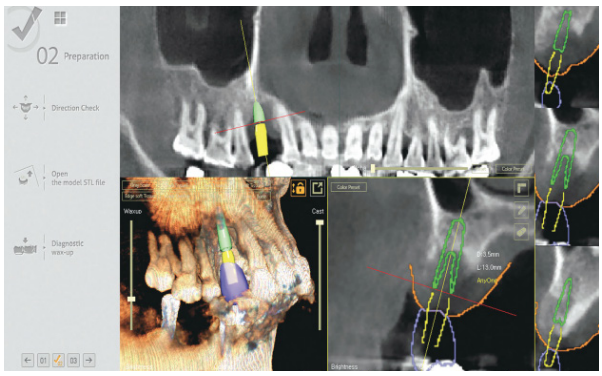
R2 Guide™ surgery



This schematic method of stent surgery can be either 'Open flap surgery' or 'Flapless surgery'. Most clinicians think that 'Guided surgery" means "Flapless surgery". With this concept, the range of clinical applications for drill guides is extremely limited in cases of the lack of hard and soft bone tissue. If instead, one thinks of 'Guided surgery" as correct "implant position', it makes the application much more useful in many clinical cases. Here are some examples.

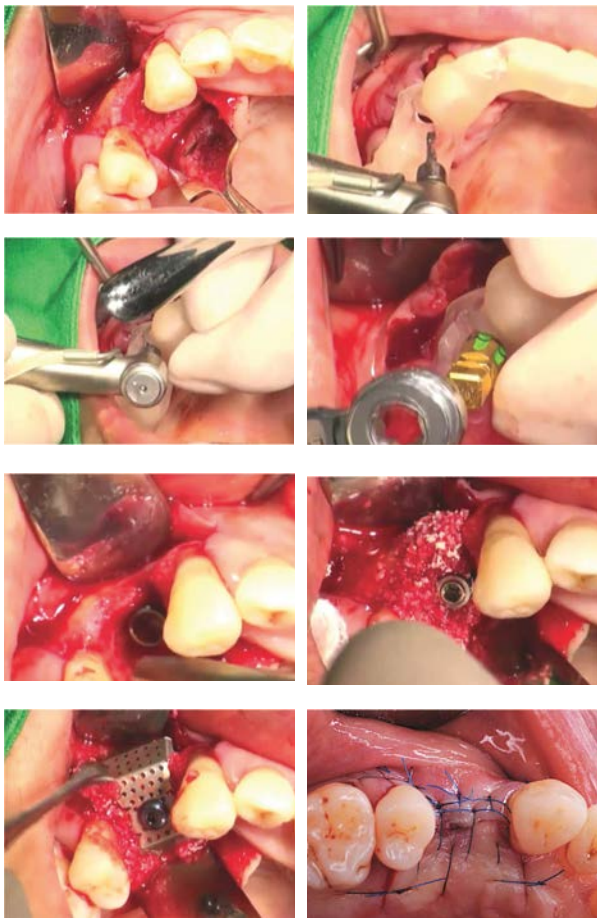


This case is a 56-year-old female with a right maxillary second premolar defect. As can be seen in radiographs, the mesiodistal "Interproximal bone level" area seems adequate, but the faciolingual area shows significant bone loss.

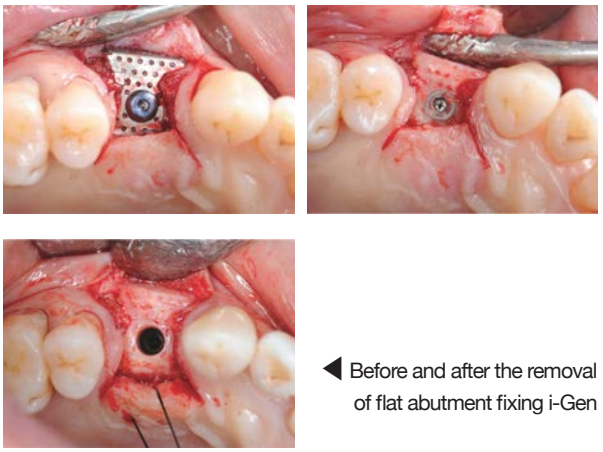


The defect of the mesiodistal space is quite wide, making it difficult to decide the position of both prosthesis and implantation. With R2GATE® however, true virtual patient simulation procedures can be carried out. The dentist is able to determine surgical options before surgery thanks to the simulation available with R2GATE®.

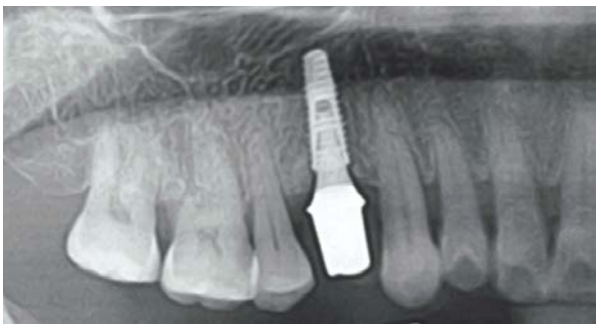
R2 Guide™ does a very important role for the implant cases with defects

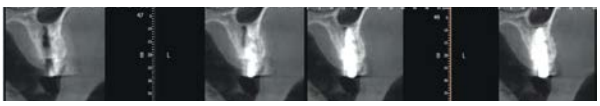


The position of the implants can be determined using R2GATE® and easily configured – use of an R2 Guide™ and Ti-mesh (i-Gen) is decided with the virtual diagnostic procedure. Final suturing is also shown.



◀ Before and after the removal of flat abutment fixing i-Gen





4 months after the surgery

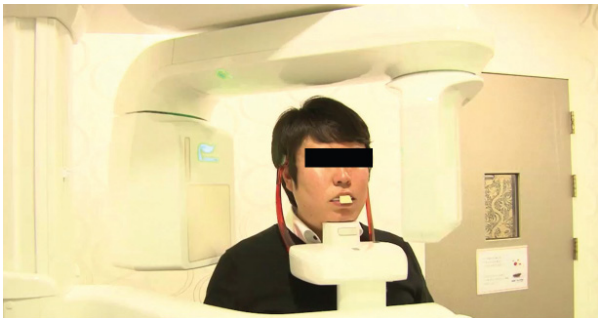
R2 Guide™ guided surgery is '3D positioning and realization of implantation' as you can see in the clinical case presented. Over the next pages, we will introduce a variety of clinical cases using an R2 Guide™.

3. Clinical cases using an R2 Guide™ (1) - *Dr. Jong-Cheol Kim*

As described earlier, the Clinical Significance of Guided Surgery using R2GATE® software and an R2 Guide™ is 3D positioning and its realization with implants. Now I would like to present some clinical cases using R2GATE® software and an R2 Guide™.

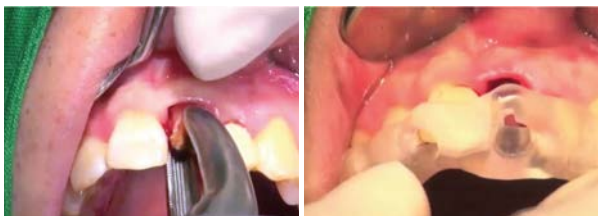
The patient above came to the clinic complaining of movement in the #21 tooth. Cervical caries was immediately identified with the CT. This patient requested rapid, aesthetic, functional recovery over the shortest possible duration of treatments. We planned immediate loading of zirconia customized abutment and a temporary crown, if excellent initial stability could be obtained after implantation using R2GATE® and an R2 Guide™. 2 preparations were needed in the clinic.

Firstly, an alginate impression of both the upper / lower jaw was taken and stone casts produced. Accurate impressions and stone casts are essential as they are the basis for all the material (data) using R2GATE®.

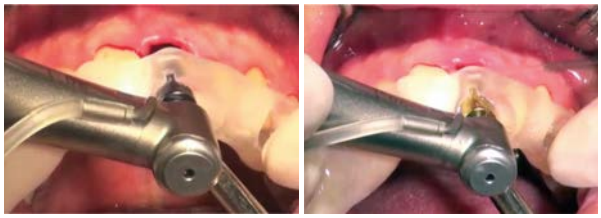


Second a CBCT scan is needed. As shown in these pictures, the patient bites a unique tray (R2 tray) and the CBCT scan is shot. This R2 tray is utilized as a standard of superposition of the CBCT and the STL files. These 2 processes are preoperative in the clinic. Stone casts can be sent via parcel service and the CBCT file via internet to the R2GATE® Center.

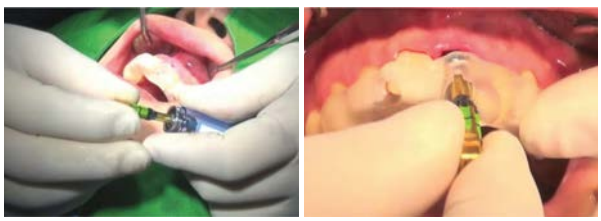
The R2 Guide™ and prosthesis are produced with this data.



This R2 Guide™ must be placed carefully to avoid damaging the buccal alveolar bone following the tooth extraction.



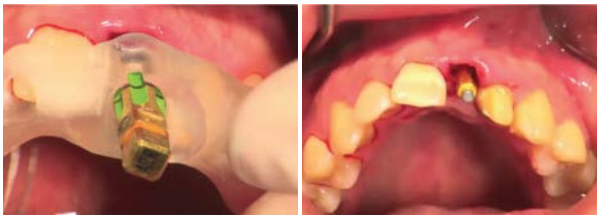
The drilling may then be performed to the size of the implant using drills exclusive for the R2 Guide™ system exactly according to our virtually planned surgery in R2GATE®. As the pictures show, complete drilling processes are recommended to be performed following the guide part of the R2 Guide™.



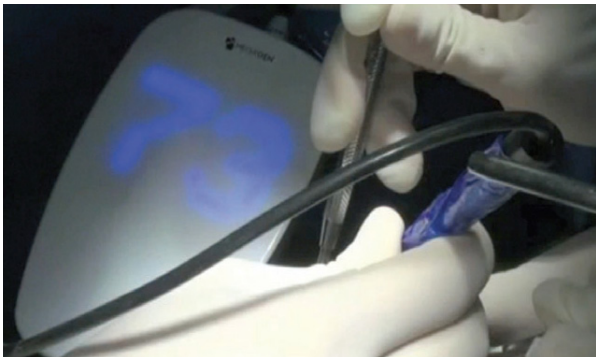
Pick up the implant after finishing drilling, using the hand ratchet connector. The correct combination between ratchet connector and fixture should be accurately checked. The fixture can then be placed in the prepared site after this confirmation.

You can use the R2 Guide™ for Immediate Implant Placement case

We recommend the use of an implant motor. Once the implant is almost completely placed with the motor, the final vertical depth and position of the implant should be completed using a torque wrench to match exactly with the virtual plan.



The location of the fixture may be matched to the R2GATE® plan by matching the window of the R2 Guide™ and the black line and green code on the ratchet connector.



▲ The figures above can be applied only to an AnyRidge Implant. These figures cannot be generally applied to other implant systems.

In order to assess the possibility of immediate loading, we use both the placement torque and the ISQ value. Only when using the AnyRidge System, we may try immediate loading – and then only if the placement torque is over 45N and the ISQ value is over or equal to 70 in D3~D1 bone without parafunctional problems.

The pre-made customized zirconia abutment may be connected after bone grafting the gap between the socket and the fixture.

These pictures show the temporary crown, immediately after surgery and then the healed site after 2 weeks.

After time needed for soft tissue healing, the prosthesis can be made using an impression for final prosthesis taken at the customized abutment level.

After 4 months, this is the image of the final prosthesis loaded.
For the success of immediate loading,
1. Bone quality
2. Implant design
3. Surgical technique
4. Occlusal loading control

should all be considered.

Next we will introduce you to how to use the 'Digital EYE™' to assess bone quality using R2GATE® for surgical planning.

It guarantees a success of an implant through 'Digital EYE™' function even at the poor bone quality

4. Clinical cases using an R2 Guide™ (2)

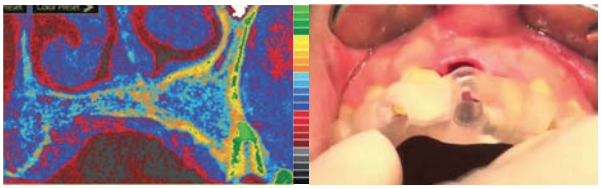
- *Dr. Jong-Cheol Kim*

At the end of the last article, the necessary conditions for the success of immediate loading were briefly mentioned.

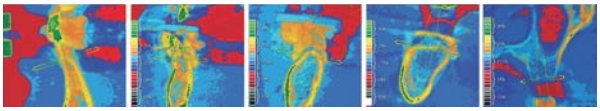
1. Bone quality
2. Implant design
3. Surgical technique
4. Occlusal loading control

Most long-term observational research mentions that the above four requirements affect the success of immediate loading. Utilizing CBCT as an assessment of bone quality is now being introduced in research papers. In evaluating bone quality R2GATE® also uses a function that enables preoperative evaluation of bone quality and makes it possible to suggest a suitable drilling sequence to increase initial stability.

CT images shown on both the left and right are the same patient's CT image. Depending on the machine, as shown in the pictures, totally different images are created. CBCT is different to MSCT (Multi Slice CT) – it does not apply the HU (Hounsfield Unit) concept. This makes it more difficult to evaluate the bone quality.



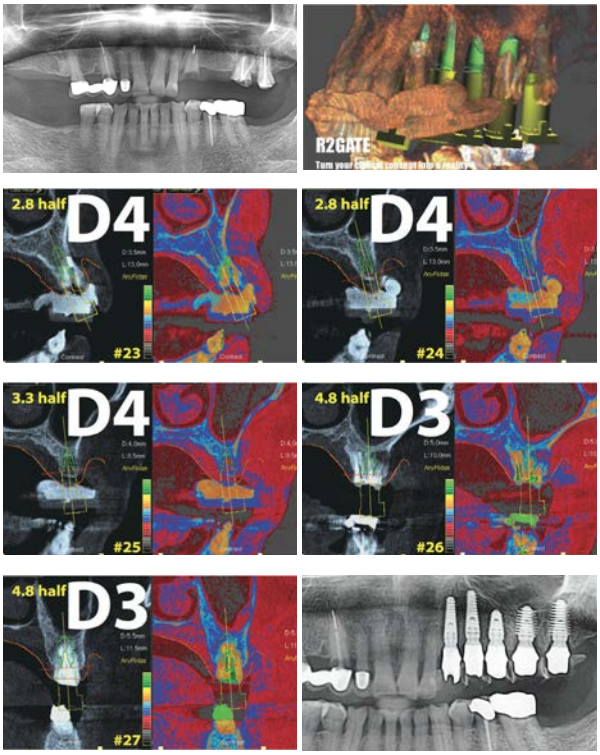
In order to resolve the disadvantages of CBCT, R2GATE® has installed the 'Digital EYE™'. The colors shown on the image of the soft tissue helps to understand the bone quality thanks to the contrast of color. You may identify the relatively hard cortical bone density and the cancellous bone clearly falls under classification D4 according to Lekholm and Zarb's classification. Considering this bone quality, you might make 2 step under-drilling compared to the planned fixture diameter.



[Ex. 1, 2, 3, 4, 5]

Correct drilling sequence, implant position, and loading protocol can be determined based on CT analysis. Take note though [Example 4, 5] even if initial stability can be gained by determining bone density, do you think immediate loading is always possible?

What are your thoughts, readers?

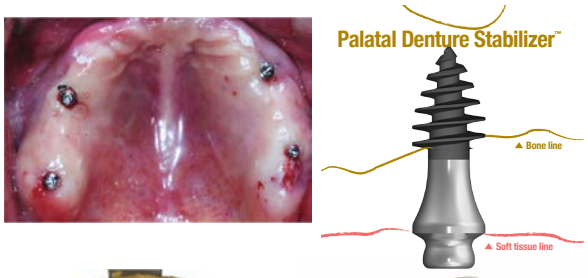


This clinical case used 'Digital EYE™', predicted the bone quality and pre-set the drilling sequence to obtain satisfactory initial stability, and also increased the number of implants for a 'One Day Implant' case. What the ISQ value would be at the time of surgery?

Edentulous clinical cases need restoration and we present another clinical trial. Do you think that a fixation screw is the only way to

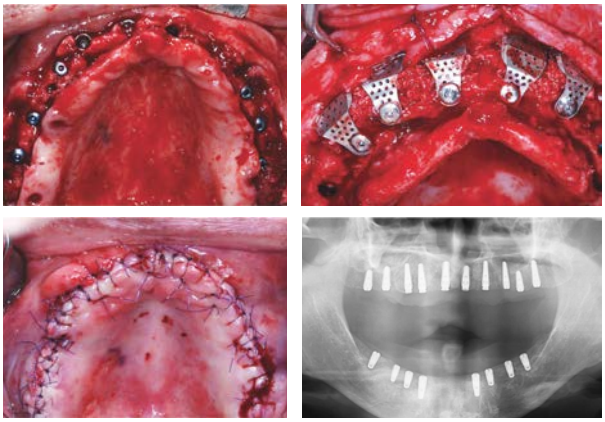
R2 Guide™ is very effective for Full Mouth cases, even with thin ridge

obtain stability of the stent when using an R2GATE Guide™ for edentulous cases? Tooth-supported guides have the highest precision. Currently, 'Team Eureka R2' is trying to develop a way to obtain 'Dual stability' by using the Palatal Denture Stabilizer.



One way to change fully edentulous cases to a tooth-supported case would be placing mini implants. Mini implants were originally developed for the purpose of maintaining temporary dentures and the can be used on edentulous cases with R2 surgery. For the mini implant placement, the implant position is not important - simply place it where it can be placed most easily.

Two R2 Guide™s can be easily manufactured based on the basic CAD/CAM system. The first R2 Guide™ gets support from four mini implants. The method is to place fixtures on areas not related to the location where the mini implants will be placed. Then, a surgical stent will be used to place the fixtures and finally the mini fixtures are removed.



As mentioned in an earlier article, the author placed implants on the basis of the R2 Guide™, executed GBR, and made the closure suturing. Once again, the purpose and significance of R2 Guide™ surgery is not simply flapless surgery but to virtually manage & observe the result of surgery before the actual surgery following your own clinical philosophy.

'Megagen Eureka R2' started ambitiously with the intention of beginning a 2nd Renaissance in the field of implant treatment and recovery using our own program. The 'R2GATE®' programme is evolving to realize this aim. Next year, we will be able to move beyond the implant field and provide new methods for GBR. In addition, we hope to achieve virtual surgery on the lower jaw using face analysis.

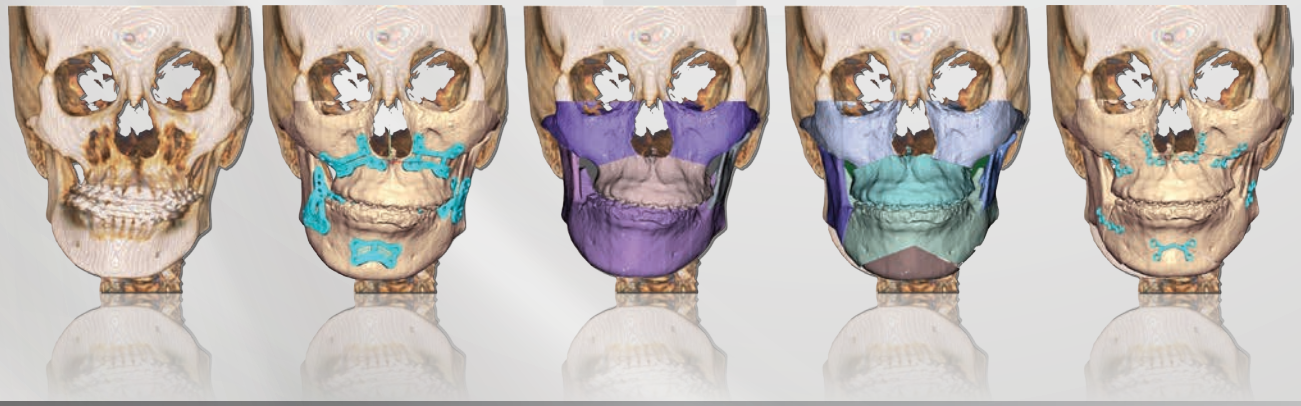
- Courtesy of Dr. Kwang-Bum Park, Dr. Seong-Eon Kim, Dr. Sang-Taek Lee.

* This clinical case can be viewed on www.R2GATE.com
'How to get a reliable ISQ value'

FACEGIDE™

All good up to analyses

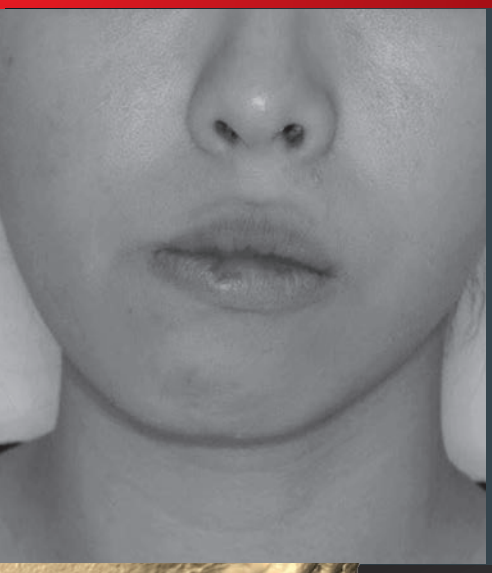
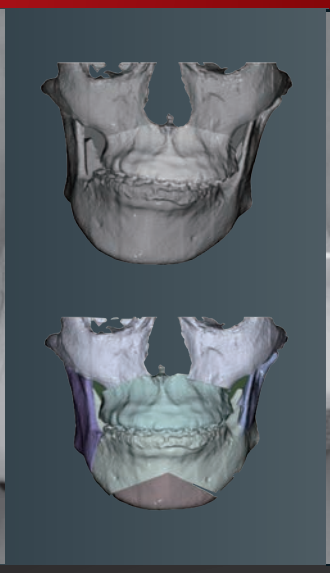
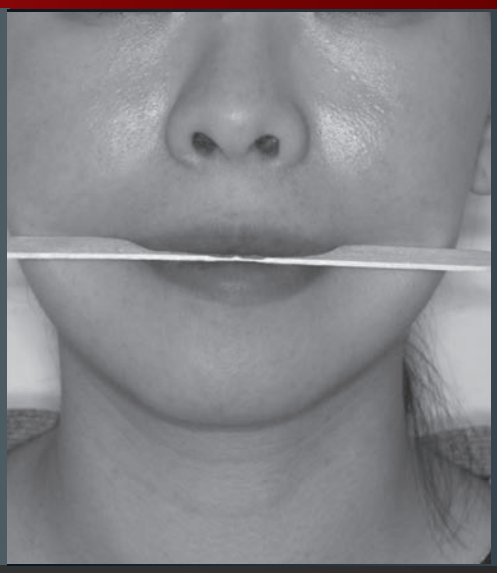
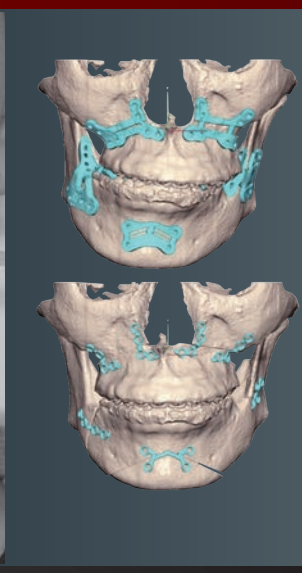
R2GATE is an innovative implant diagnostic software that analyses the oral condition and shows the best options for implant treatment. With FACEGIDE, we take one step further into maxillofacial surgery. Using the same technology for accurate reading of the bone and tissue situation and with advanced software options, FaceGide opens the door to using **R2GATE®** for more predictable **Orthognathic surgery**.

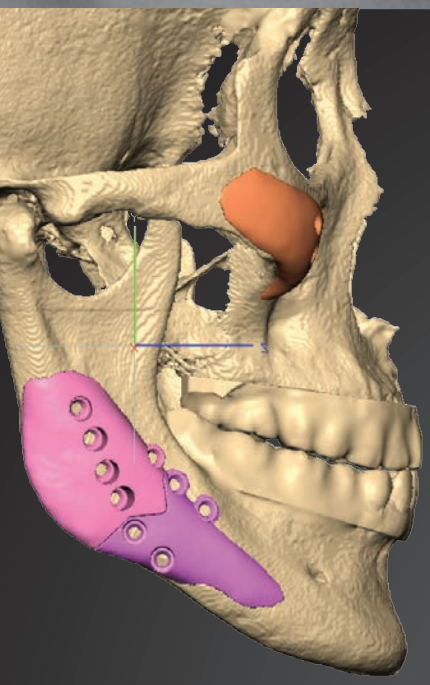


“How to use R2GATE® for Orthognathic surgery?”

Safety and Minimal Invasiveness, Predictability

Efficiency, Patient-Oriented



FACEGIDE Reconstruction

Full 3D Digital Solution!

- Exactly reproduces the results of digital diagnosis for surgery
- Guides and customized plates for predictable surgery
- Provides precise 3D simulation and intuitive data

FACEGIDE Reconstruction™ Indications

- Wide-ranging restoration for mandibular bone loss (due to trauma or surgical failure)
- Chin reconstruction for micrognathia
- Restoration of mandible due to oral cancer or other lesions in the bone
- Provides support by replacing deficient areas in the orbital margin or orbital floor
- Replaces deficient zygomatic bone

FACEGIDE Reconstruction™ Scope of Use

- Wide ranging restoration of the mandible (mandible reconstruction, revision surgery)
- Wide ranging restoration of zygoma & orbital margin
- Cannot be used in load-bearing areas or joints (i.e., TMJ)

Scope of Application

- Mandibular bone deficiency, zygoma, orbital margin

Shapes

- Stock screw grooves can be custom fabricated in various shapes to account for deficiencies

Material

- Titanium Grade4

One Time Use

- Unable to be reused as it is custom-fabricated for a specific patient. It is provided unsterilized (requires standard sterilization in a clinic).

A Complete Digital Process from Diagnosis to Product Fabrication

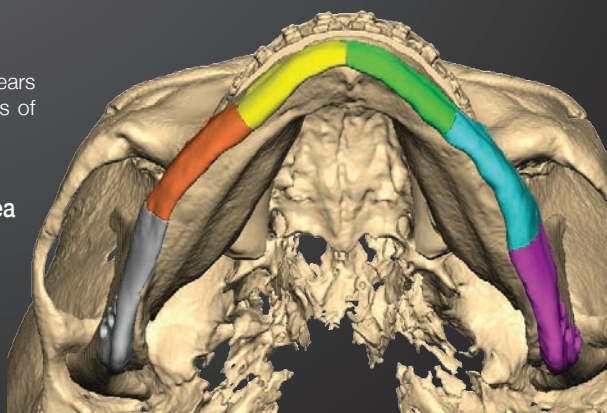
This product is to diagnose patients using 3D simulation and to fabricate customized prostheses for a specific deficiency, dramatically increasing convenience and safety during surgery.

Experts Specialized in 3D Analysis and Design

The FACEGIDE Team is composed of skilled 3D designers with more than 5 years of experience, providing simulations reflecting the characteristics and systems of each clinic and producing products after a real-time confirmation process.

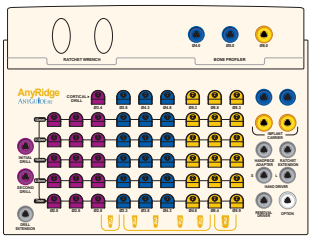
FACEGIDE, Verified and Currently Used in 12 University Hospitals in Korea

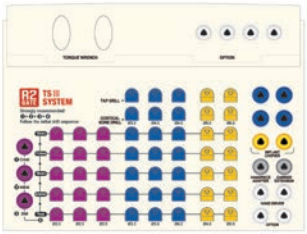
FACEGIDE is a verified product that has been used for more than 4 years for double jaw surgeries and mandibular reconstruction in 12 university hospitals including Seoul National University, Hallym University and Busan University.

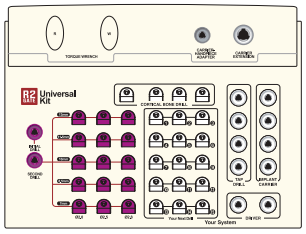



MEGA'GEN
For Lifetime Smiles

R2 Surgical KIT







R2 Full Surgical KIT

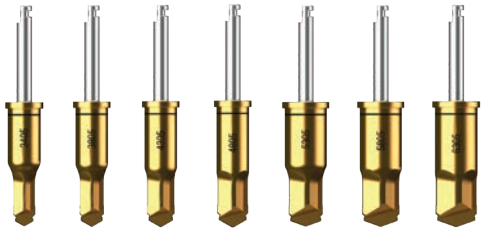
I. R2 Full Surgical Kit for AnyRidge System

- 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.

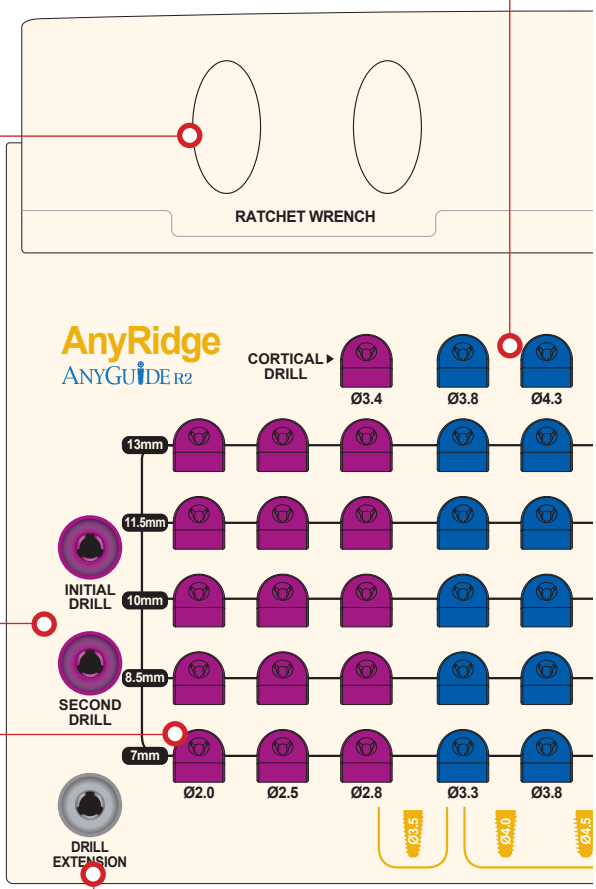
Ref.C

KAGIN3000

Cortical Bone Drill



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



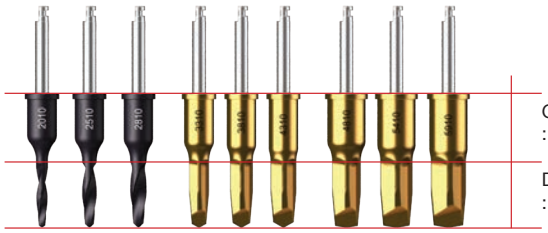
Initial Drill

Initial Drill | Second Drill

Drilling to make the initial drill path

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

Drill Extension

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

Bone Profiler

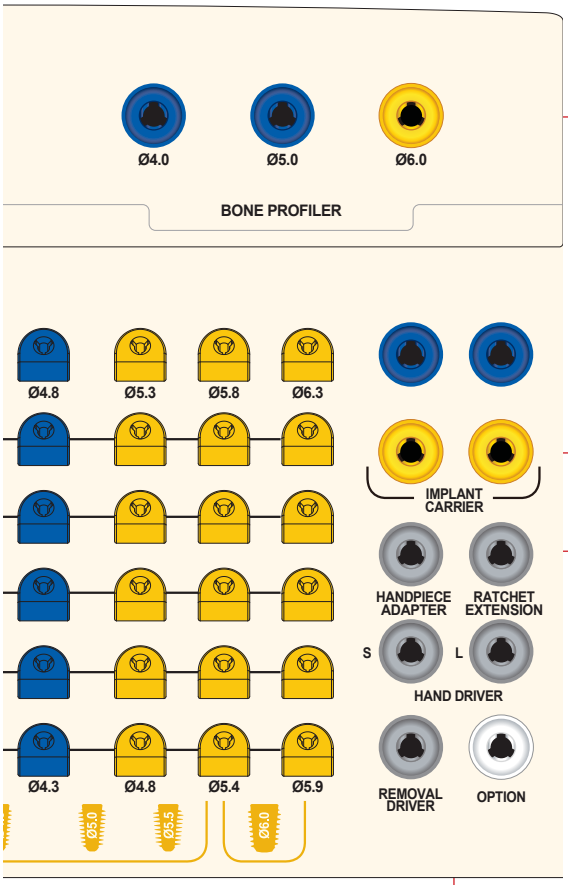
This is used to minimize the interference of the crestal bone when connecting ZrGEN Abutment, [Used before placing the fixture / Recommended RPM 600 ~1000]

Implant Carrier

: Handpiece Type
: Ratchet Type

▶ R – AnyRidge Regular
(ø3.5 ~ø4.5)

▶ W – AnyRidge Wide
(ø5.0 ~ ø6.0)



Hand Driver

: 1.2 Hex Driver (Short)
: 1.2 Hex Driver (Long)
: Abutment Remover Driver

Carrier-Handpiece Adapter

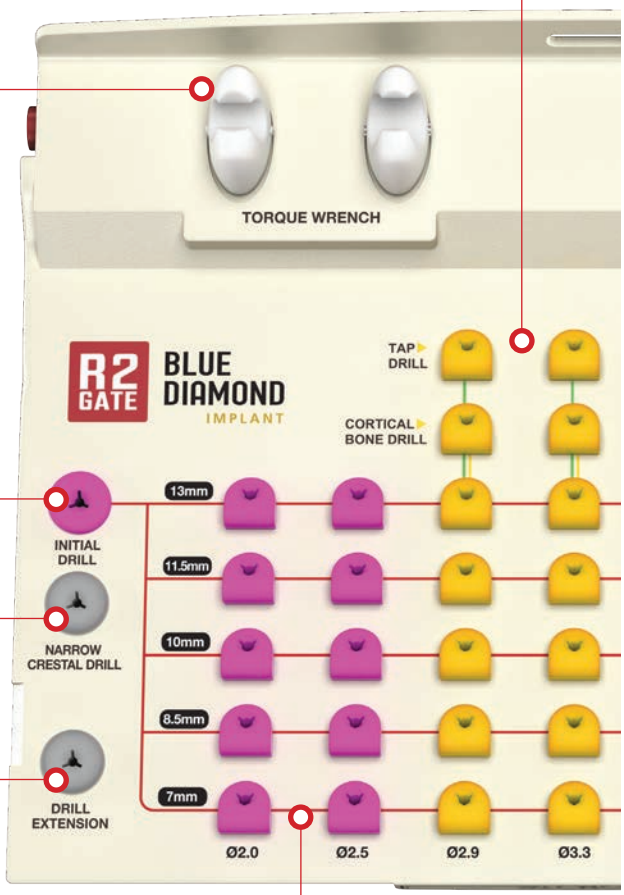
Carrier Extension

II. R2 Full Surgical Kit for BLUEDIAMOND IMPLANT System

- 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.

Ref.C
KAGIN3002

Tap Drill



Initial Drill

Narrow Crestal Drill

Drill Extension

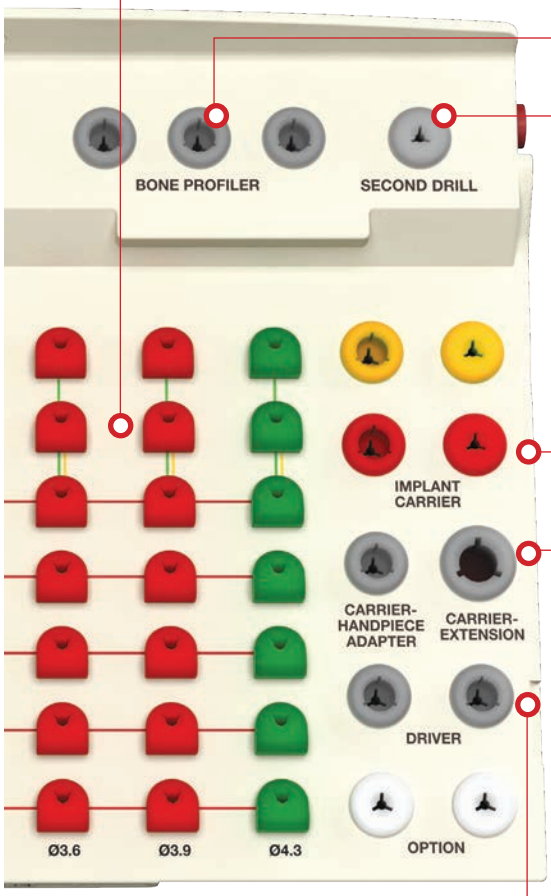
Stopper Drill

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

Cortical Bone Drill

Bone Profiler

Second Drill



Implant Carrier

: Handpiece Type
: Ratchet Type

Hand Driver

Carrier-Handpiece Adapter

Carrier Extension

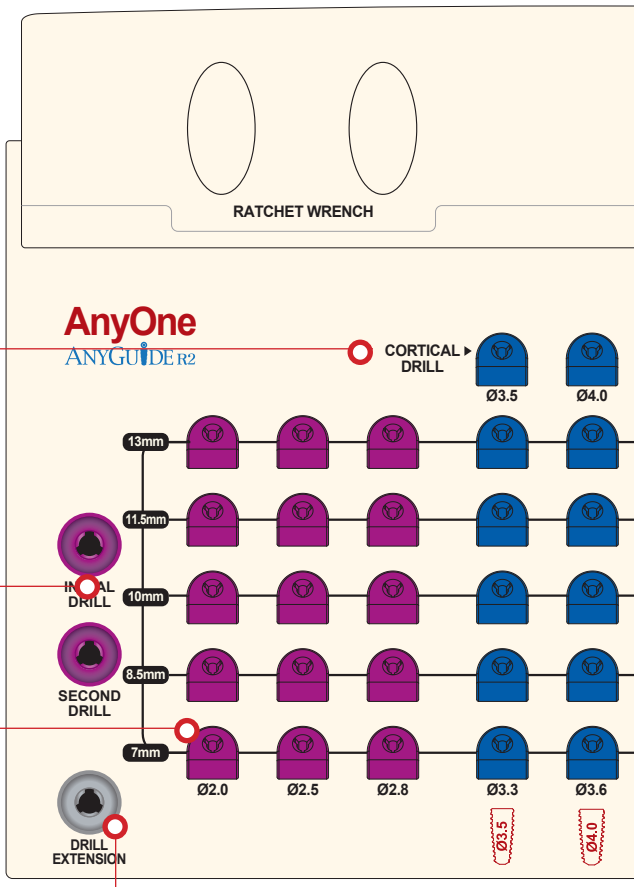
III. R2 Full Surgical Kit for AnyOne System

- 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.

Ref.C
KAGIN3001

Cortical Bone Drill

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



Initial Drill

Initial Drill | Second Drill

Drilling to make the initial drill path

Guide Stop Drill

Drill diameter : Ø2.0 ~Ø 5.9
Drill Length : 7.0 ~ 13.0mm

Guide length : 13.5mm

Drilling length : 7.0 ~ 13.0mm

Drill Extension

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

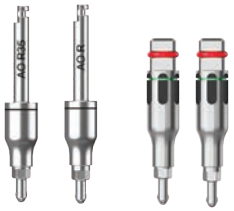
Bone Profiler

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

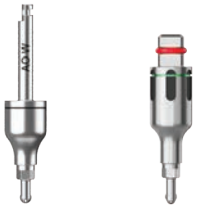
Implant Carrier

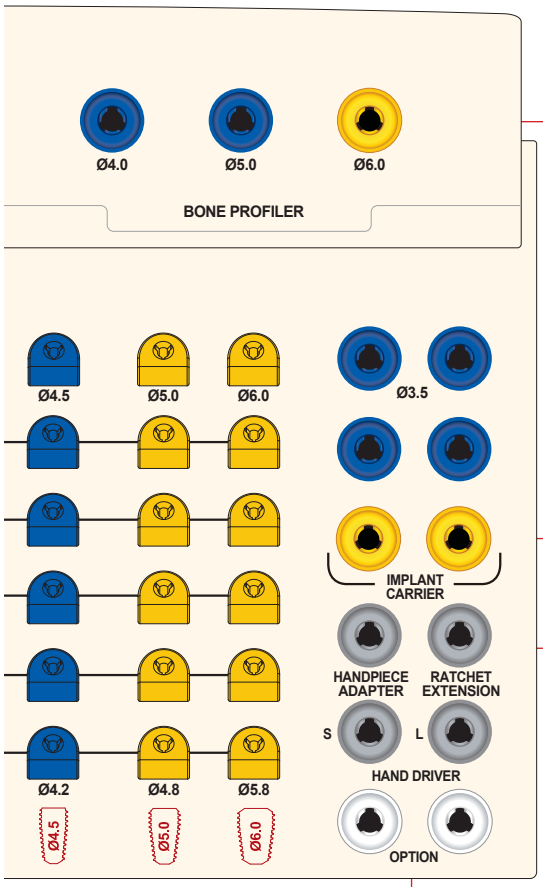
: Handpiece Type
: Ratchet Type

▶ R – AnyOne Regular
(ø3.5 ~ø4.5)



▶ W – AnyOne Wide
(ø5.0 ~ ø6.0)





Hand Driver : 1.2 Hex Driver (Short/Long)

Carrier-Handpiece Adapter

Carrier Extension

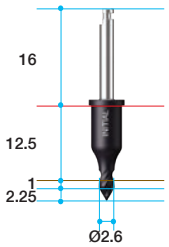
Components for R2 Full Surgical Kit (Continued)

- 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 R2 Guide™.
- Recommended drilling speed range is 300 ~ 800 RPM with copious irrigation.

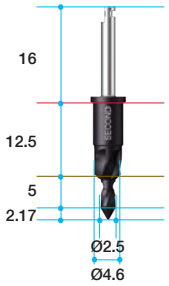
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.6	Ø5.0	1.0	R2ID2601



Second Drill

- This unique step-drill(from Ø2.0 to Ø4.6) is used to flare out the upper cortical bone of the osseotomy.
- It helps not only the rest drilling procedure but abut- ment connection. In case of hard bone, if the 2nd drilling will be disturbed by thick cortical bone. Stop the drilling and try it after final drilling procedure.

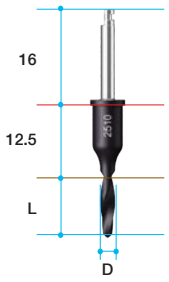
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.5	Ø5.0	5.0	R2SD2505



Stopper Drill

- Universal drills consist of Ø2.0, Ø.2.5, Ø2.8 diam- eter 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



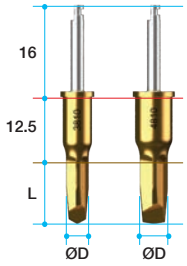
Bone Profiler

- 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 [AR]

- Recommended drilling speed is 300 ~ 800 RPM.

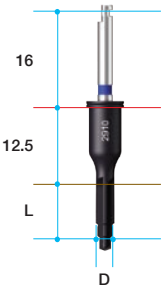


Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.3	Ø5.0	6.5	ARSD3307
		8.0	ARSD3308
		9.5	ARSD3310
		11.0	ARSD3311
		12.5	ARSD3313
Ø3.8		6.5	ARSD3807
		8.0	ARSD3808
		9.5	ARSD3810
		11.0	ARSD3811
		12.5	ARSD3813
Ø4.3		6.5	ARSD4307
		8.0	ARSD4308
		9.5	ARSD4310
		11.0	ARSD4311
		12.5	ARSD4313

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	ARSD5907
		8.0	ARSD5908
		9.5	ARSD5910
		11.0	ARSD5911
		12.5	ARSD5913

Stopper Drill [BD]

- Diameters: Ø2.0, Ø.2.5, Ø2.8 for gradual enlargement of osteotomy
- Drill lengths: 7.0, 8.5, 10, 11.5,13mm appropriate for most implant lengths
- Recommended drilling speed: 500 ~ 800 RPM with copious irrigation.



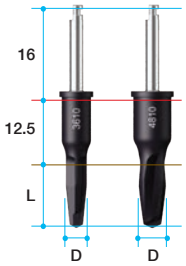
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.0	Ø5.0	6.5	R2SD2007
		8	R2SD2008
		9.5	R2SD2010
		11	R2SD2011
		12.5	R2SD2013
Ø2.5		6.5	R2SD2507
		8	R2SD2508
		9.5	R2SD2510
		11	R2SD2511
		12.5	R2SD2513
Ø2.9		7	R2UD2907
		8	R2UD2908
		9.5	R2UD2910
		11	R2UD2911
		12.5	R2UD2913
Ø3.3		7	R2UD3307
		8	R2UD3308
		9.5	R2UD3310
		11	R2UD3311
		12.5	R2UD3313

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.6	Ø5.0	7	R2UD3607
		8	R2UD3608
		9.5	R2UD3610
		11	R2UD3611
		12.5	R2UD3613
Ø3.9		7	R2UD3907
		8	R2UD3908
		9.5	R2UD3910
		11	R2UD3911
		12.5	R2UD3913
Ø4.3		7	R2UD4307
		8	R2UD4308
		9.5	R2UD4310
		11	R2UD4311
		12.5	R2UD4313

Components for R2 Full Surgical Kit (Continued)

Stopper Drill[AO]

- Recommended drilling speed is 300 ~ 800 RPM.



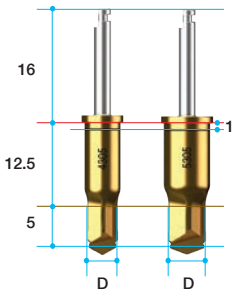
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.3	Ø5.0	7.0	AOSD3307
		8.0	AOSD3308
		9.5.0	AOSD3310
		11.0	AOSD3311
		12.5	AOSD3313
Ø3.6		7.0	AOSD3607
		8.0	AOSD3608
		9.5	AOSD3610
		11.0	AOSD3611
		12.5	AOSD3613
Ø4.2		7.0	AOSD4207
		8.0	AOSD4208
		9.5	AOSD4210
		11.0	AOSD4211
		12.5	AOSD4213

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø4.8	Ø6.5	7.0	AOSD4807
		8.0	AOSD4808
		9.5	AOSD4810
		11.0	AOSD4811
		12.5	AOSD4813
Ø5.8		7.0	AOSD5807
		8.0	AOSD5808
		9.5	AOSD5810
		11.0	AOSD5811
		12.5	AOSD5813

Cortical Bone Drill [AR]

- 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



Cortical Bone Drill [BD]

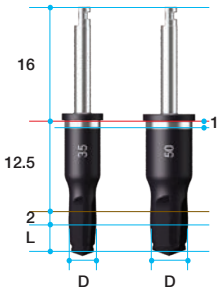
- Recommended drilling speed : 300 ~ 800 RPM

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.6	Ø5.0	6.5	R2BDCD33
Ø4.0			R2BDCD37
Ø4.4			R2BDCD41
Ø4.7			R2BDCD44
Ø4.95			R2BDCD48

Cortical Bone Drill [AO]

- Recommended drilling speed : 300 ~ 800 RPM

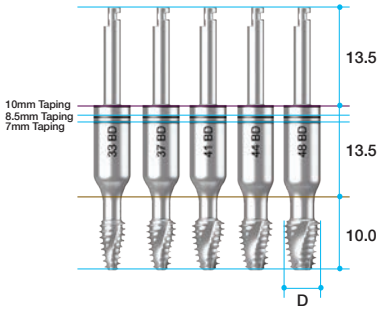
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	6.0	AODD39
Ø4.3			AODD43
Ø4.8			AODD48
Ø5.3	Ø6.5	5.5	AODD53
Ø6.3			AODD63



Tap Drill [BD]

- For insertion test before placing fixture
- To avoid enlarging osteotomy, select tap drill one-size smaller than osteotomy
- Recommended insertion torque & speed: 45 ~ 50Ncm, under 40 RPM.

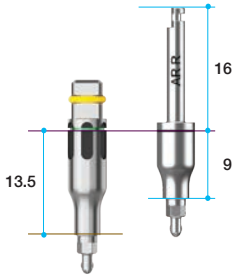
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.6	Ø5.0	9.5	R2TD33ARO
Ø4.0			R2TD37ARO
Ø4.4			R2TD41ARO
Ø4.7			R2TD44ARO
Ø5.0			R2TD48ARO



Implant Carrier[AR]

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture insertion. 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.

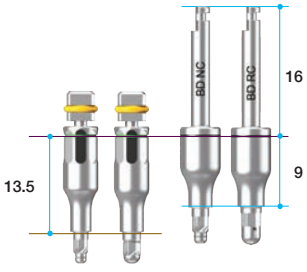
Connection	Guide Diameter	Type	Ref.C
2.3 Hex	Ø5.0	Ratchet	ICRH2324
	Ø6.5		ICWH2324
	Ø5.0	Handpiece	ICRH2324H
	Ø6.5		ICWH2324H



Implant Carrier[AR]

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture insertion. 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.

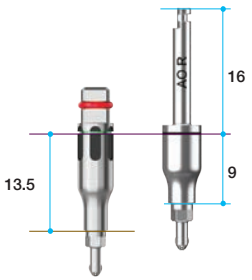
Connection	Guide Diameter	Type	Ref.C
2.1 Octa	Ø5.0	Ratchet	ICRO2127
2.5 Octa			ICRO2530
2.1 Octa	Ø5.0	Handpiece	ICRO2127H
2.5 Octa			ICRO2530H



Implant Carrier[AO]

- Two different implant carriers for regular stent since Ø3.5 fixture has different abut- ment connection
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2518
			ICRH2523
	Ø6.5		ICWH2523
	Ø5.0	Handpiece	ICRH2518H
			ICRH2523H
	Ø6.5		ICWH2523H



Components for R2 Full Surgical Kit (Continued)

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

Drill Extension

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

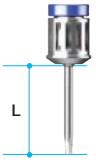
Ref.C
MDE150

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
5.0	*Ultra-short	TCMHDU1200
10	Short	TCMHDS1200
15	Long	TCMHDL1200
20	*Extra-long	TCMHDE1200

(*) 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.

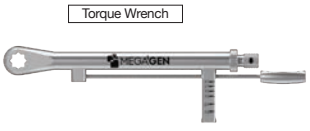
Ref.C
MRW040S

Torque Wrench [BD]

(Ratchet type)

- Use for implant placement & final tightening of abutment screw

Type	Ref.C
Torque Wrench	TWSQ70

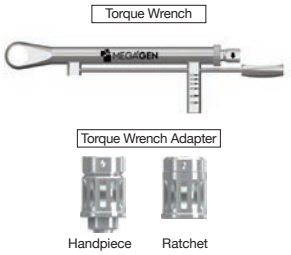


Torque Wrench & Adapter

- Use for implant placement & final tightening of abutment screw
- Torque range: 15Ncm to 45Ncm

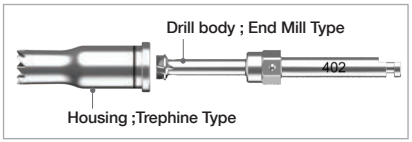
Type	Ref.C
*Torque Wrench	MTW300A
**Torque Wrench Adapter (Handpiece)	TTAI100
*Torque Wrench Adapter (Ratchet)	TTAR100

(*) Separate sales item.

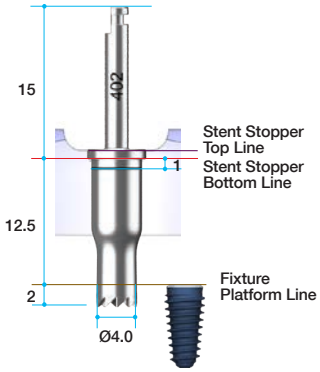


Narrow Crest Drill

- Use for angled fixture placement or to flatten bone surface of narrow ridge to prevent slipping during drilling
- Use to harvest autogenous bone if used after soft tissue
- 2-piece design: drill body & housing
- Disassemble to remove bone chips & for easy cleaning



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

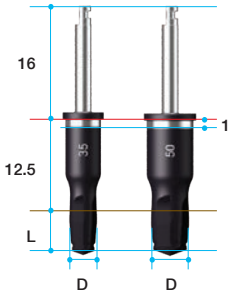


System Options for the AnyOne External

Cortical Bone Drill

- Recommended drilling speed: 300~800 rpm

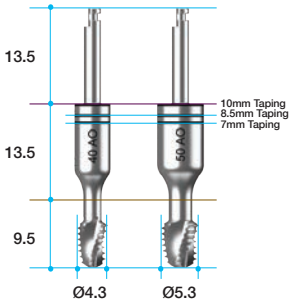
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	6.0	AODD39
Ø4.3			AODD43
Ø4.8			AODD48
Ø5.3	Ø6.5	5.5	AODD53
Ø6.3			AODD63



Tap Drill

- The purpose of tab drills in the R2 Universal kit system is insertion test. some of implant are required this procedure before final fixture insertion. choose the one-step under size of tab to protect from enlargement of osteotomy.
- Recommended insertion torque and speed is 45 ~50Ncm, under 40 RPM.

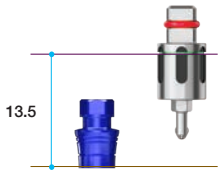
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	9.5	R2TD35AO
Ø4.3			R2TD40AO
Ø4.8			R2TD45AO
Ø5.3	Ø6.5		R2TD50AO
Ø6.3			R2TD60AO



Implant Carrier

- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor
- Recommended insertion torque is 45~50Ncm.

Diameter	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRAOE
	Ø6.5		ICWAOE



R2 Standard KIT

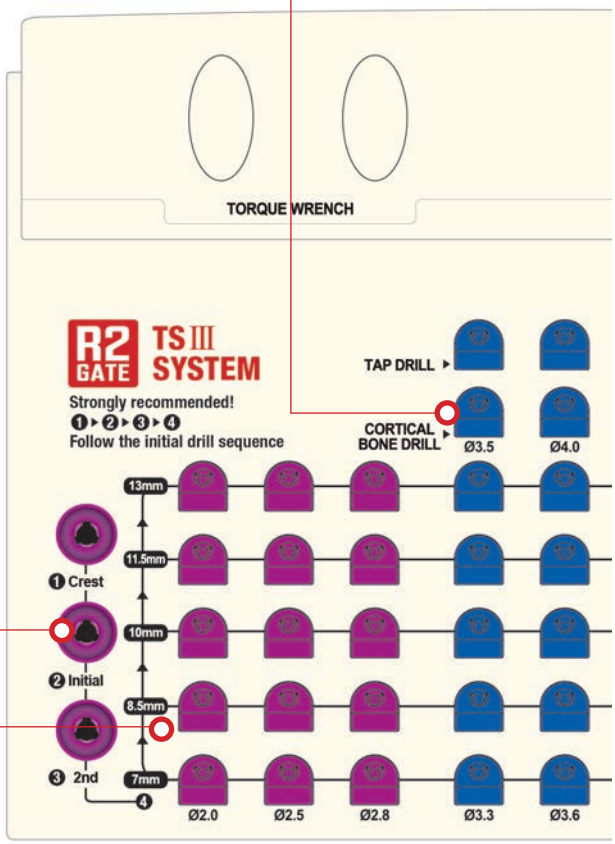
I. R2 Standard Kit for TSIII System (Osstem co.)

- 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.

Ref.C
KAGTS3000

Cortical Bone Drill

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



Initial Drill

Drilling to make the initial drill path

Guide Stop Drill

Drill Diameter : Ø2.0 ~Ø 5.9
Drill Length : 7.0 ~ 13.0mm

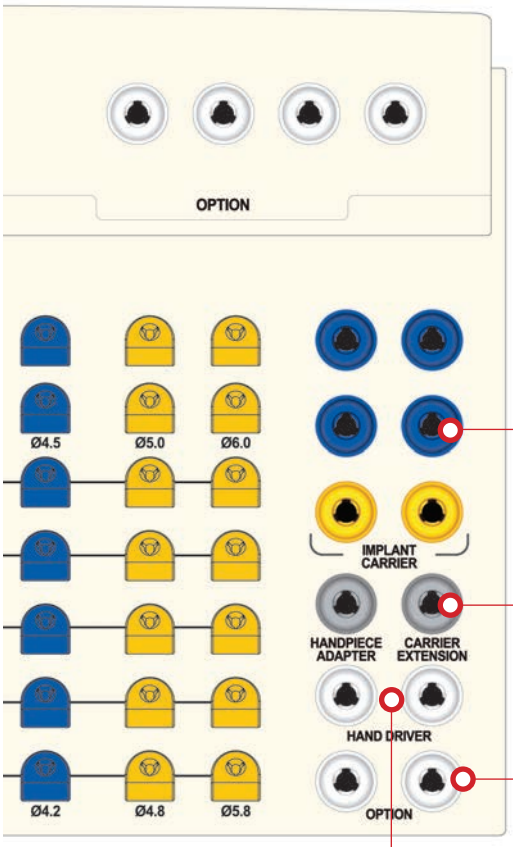
Product coordinator : Jung Ho Nam, rnd_implant1@imegagen.com

Implant Carrier

: Handpiece Type
: Ratchet Type

▶ R3.5 – Osstem MiNi

▶ R3.5 – Osstem Regular



Drill Extension

Hand Driver : 1.2 Hex Driver (Short/Long)

Carrier-Handpiece Adapter

Carrier Extension

II. R2 Standard Kit for SuperLine System (Dentium co.)

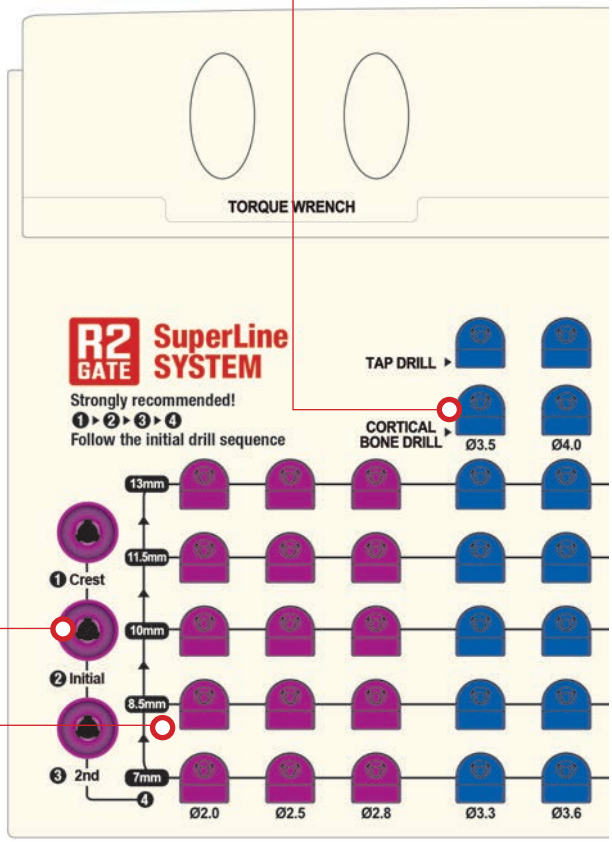
- If you only use a specific system, corresponding system's full kit can be provided.
- R2 full surgical kit is composed with all of drills and components that are needed for the Digital Guided Surgery which uses R2 Guide™ after R2GATE diagnosis. It helps to actualize minimally invasive surgery and makes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

Ref.C

KAGSL3000

Cortical Bone Drill

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



Initial Drill

Initial Drill | Second Drill

Drilling to make the initial drill path

Guide Stop Drill

Drill Diameter : Ø2.0 ~Ø 5.9
Drill Length : 7.0 ~ 13.0mm

Guide Length : 13.5mm

Drilling Length : 7.0 ~ 13.0mm

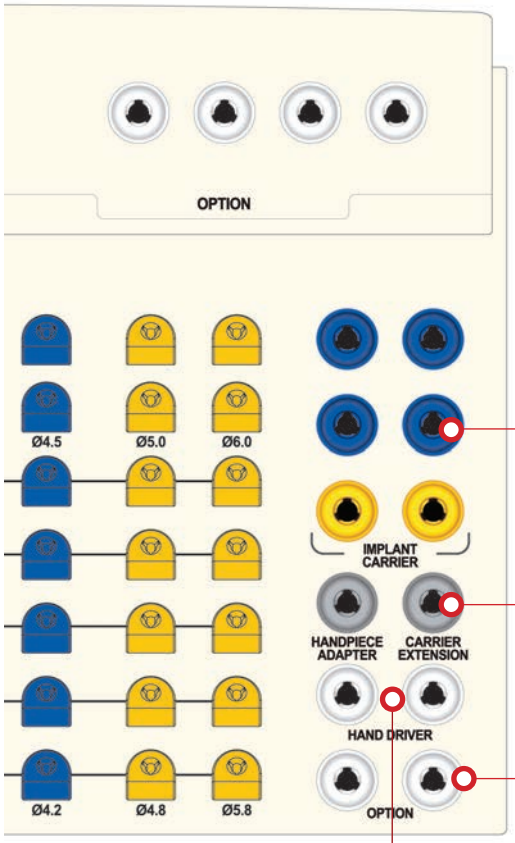
Product coordinator : Jung Ho Nam, rnd_implant1@imegagen.com

Implant Carrier

: Ratchet Type

▶ R – Dentium Super Line
(ø3.7 ~ ø4.5)

▶ W – Dentium Super Line Wide
(ø5.0 ~ ø6.0)



Drill Extension

Hand Driver : 1.2 Hex Driver (Short/Long)

Carrier-Handpiece Adapter

Carrier Extension

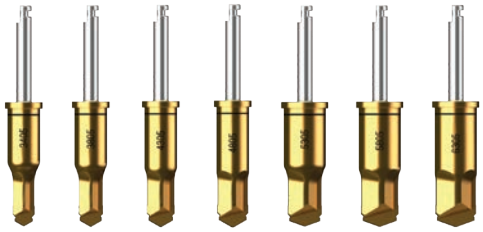
III. R2 Standard Kit for UFII System (DIO co.)

- 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.

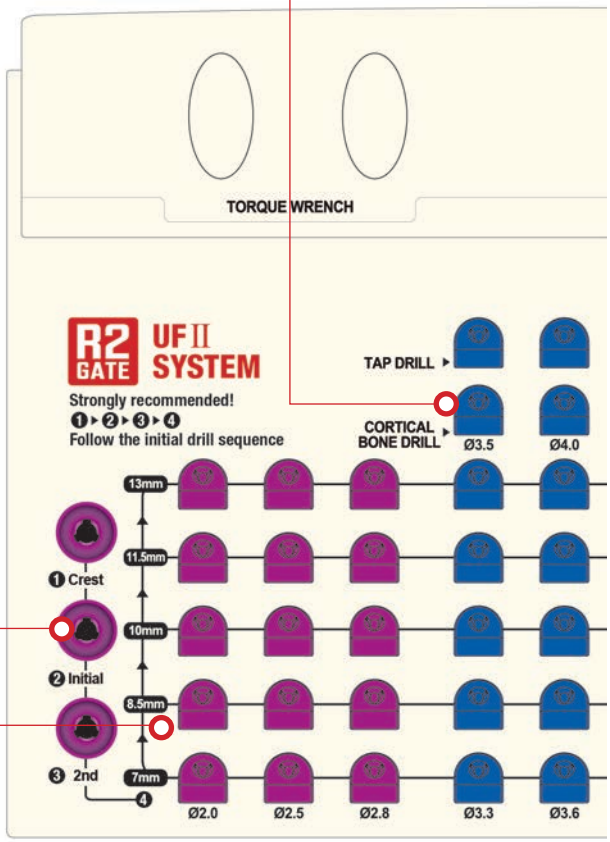
Ref.C

KAGUF3000

Cortical Bone Drill



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



Initial Drill

Drilling to make the initial drill path

Guide Stop Drill

Drill Diameter : Ø2.0 ~Ø 5.9
Drill Length : 7.0 ~ 13.0mm

Guide Length
: 13.5mm

Drilling Length
: 7.0 ~ 13.0mm

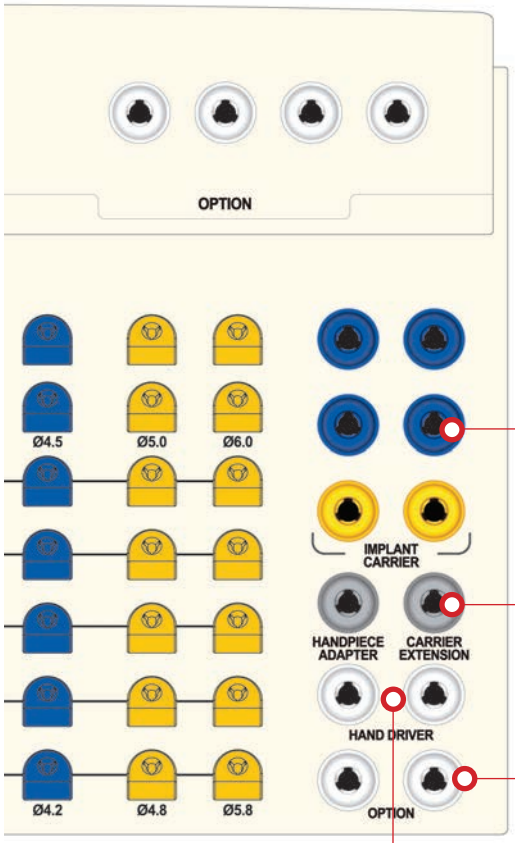
Product coordinator : Jung Ho Nam, rnd_implant1@imegagen.com

Implant Carrier

: Ratchet Type

▶ R –DIO UF II Regular
(ø3.7 ~ ø4.5)

▶ W – DIO UF II WIDE
(ø5.0 ~ ø5.5)



Drill Extension

Hand Driver : 1.2 Hex Driver (Short/Long)

Carrier-Handpiece Adapter

Carrier Extension

IV. R2 Standard Kit for ISII System (Neo Biotech co.)

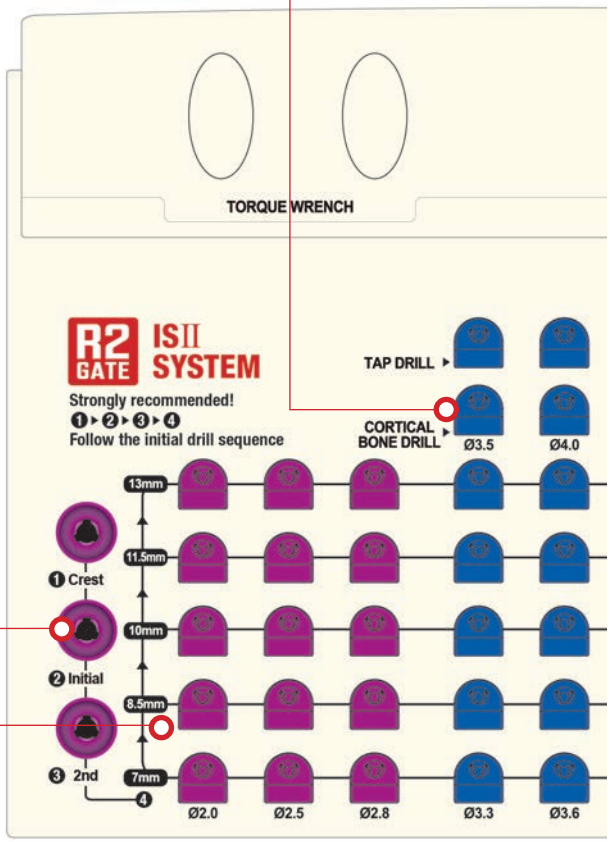
- If you only use a specific system, corresponding system's full kit can be provided.
- R2 full surgical kit is composed with all of drills and components that are needed for the Digital Guided Surgery which uses R2 Guide™ after R2GATE diagnosis. It helps to actualize minimally invasive surgery and makes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

Ref.C

KAGIS3000

Cortical Bone Drill

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



Initial Drill

Drilling to make the initial drill path

Guide Stop Drill

Drill Diameter : Ø2.0 ~Ø 5.9
Drill Length : 7.0 ~ 13.0mm

Guide Length
: 13.5mm

Drilling Length
: 7.0 ~ 13.0mm

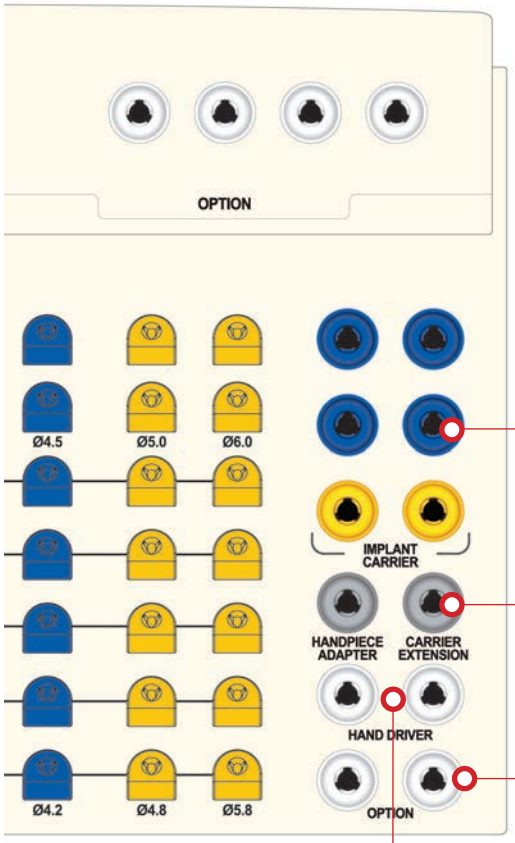
Product coordinator : Jung Ho Nam, rnd_implant1@imegagen.com

Implant Carrier

: Ratchet Type

▶ R – NEO IS II Regular
(ø3.5 ~ ø4.5)

▶ W – NEO IS II WIDE
(ø5.0)



Drill Extension

Hand Driver : 1.2 Hex Driver (Short/Long)

Carrier-Handpiece Adapter

Carrier Extension

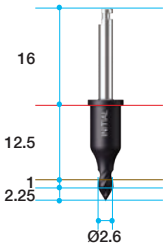
Components for R2 Standard Kit (Continued)

- If you use only 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 R2 Guide™.
- Recommended drilling speed range is 300 ~ 800 RPM with copious irrigation.

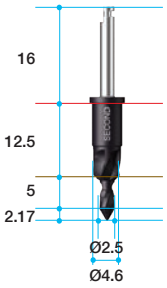
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.6	Ø5.0	1.0	R2ID2601



Second Drill

- This unique step-drill(from Ø2.0 to Ø4.6) is used to flare out the upper cortical bone of the osseotomy.
- It helps not only the rest drilling procedure but abut- ment connection. In case of hard bone, if the 2nd drilling will be disturbed by thick cortical bone. Stop the drilling and try it after final drilling procedure.

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 diam- eter 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.

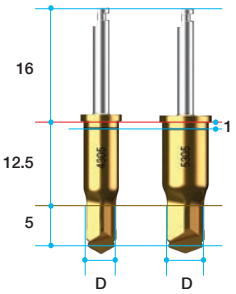
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.0	Ø5.0	6.5	R2SD2007
		8.0	R2SD2008
		9.5	R2SD2010
		11.0	R2SD2011
		12.5	R2SD2013
Ø2.5		6.5	R2SD2507
		8.0	R2SD2508
		9.5	R2SD2510
		11.0	R2SD2511
		12.5	R2SD2513
Ø2.8		6.5	R2SD2807
		8.0	R2SD2808
		9.5	R2SD2810
		11.0	R2SD2811
		12.5	R2SD2813
Ø3.3	Ø5.0	7.0	AOSD3307
		8.0	AOSD3308
		9.5.0	AOSD3310
		11.0	AOSD3311
		12.5	AOSD3313
Ø3.6		7.0	AOSD3607
		8.0	AOSD3608
		9.5	AOSD3610
		11.0	AOSD3611
		12.5	AOSD3613
Ø4.2		7.0	AOSD4207
		8.0	AOSD4208
		9.5	AOSD4210
		11.0	AOSD4211
		12.5	AOSD4213

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø4.8	Ø6.5	7.0	AOSD4807
		8.0	AOSD4808
		9.5	AOSD4810
		11.0	AOSD4811
		12.5	AOSD4813
Ø5.8		7.0	AOSD5807
		8.0	AOSD5808
		9.5	AOSD5810
		11.0	AOSD5811
		12.5	AOSD5813

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



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

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

Components for R2 Standard Kit

Carrier Extension

- To extend the length of implant carrier.

Diameter	Ref.C
4.0	MRE400S

Drill Extension

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

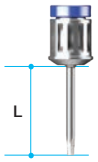
Ref.C
MDE150

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.

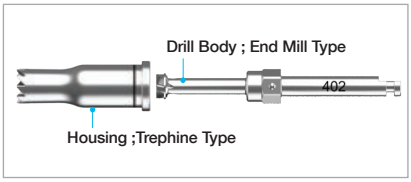
Length(mm)	Type	Ref.C
5.0	*Ultra-short	TCMHDU1200
10	Short	TCMHDS1200
15	Long	TCMHDL1200
20	*Extra-long	TCMHDE1200

(*) Separate sales item.

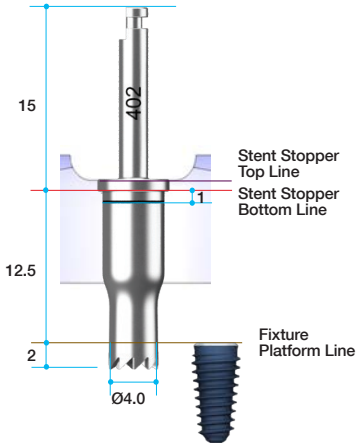


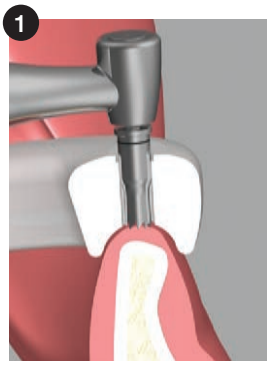
Narrow Crest Drill

- 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

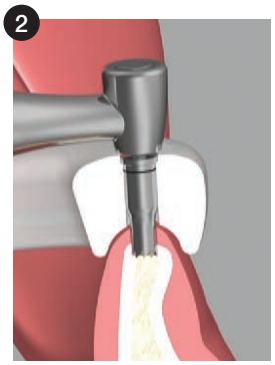


Diameter	Guide Diameter	Length(mm)	Ref.C
Ø4.0	Ø5.0	15.5(12.5/2)	NCD402

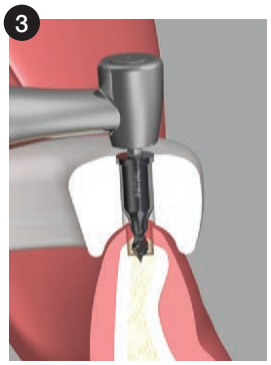




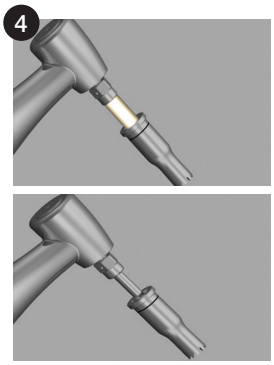
Set the site by drilling counter-clockwisely with low speed (≤100rpm)



Start drilling clockwisely (400~600rpm)



Bone is now flat. Perform drilling with proper drilling sequence.



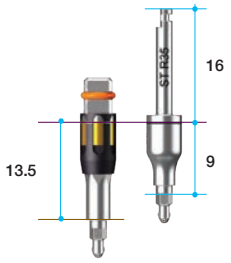
Disassemble body and housing after drilling to remove bone chip. Clean and sterilize after every usage.

Components for R2 TSIII Standard Kit

Implant Carrier

- Two different implant carriers for regular guide since Ø3.5 fixture has different abutment connection- ICRH2127 : Ø3.5 fixture- ICRH2523O : Ø4.0, Ø4.5 fixture
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

Connection	Guide Diameter	Type	Ref.C
2.1 Hex	Ø5.0	Ratchet	ICRH2127
2.5 Hex			ICRH2523O
2.1 Hex		Handpiece	ICRH2127H
2.5 Hex			ICRH2523HO

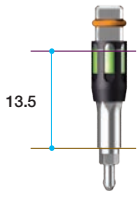


Components for R2 Super Line Standard Kit

Implant Carrier

- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2523SL
	Ø6.5		ICWH2523SL

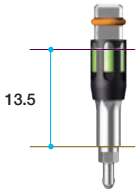


Components for R2 UFII Standard Kit

Implant Carrier

- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

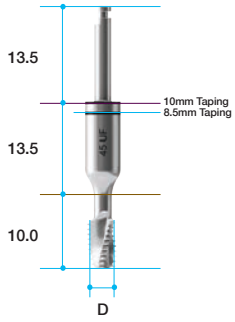
Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2523UF
	Ø6.5		ICWH2523UF



Tap Drill [Optional]

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture insertion. 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.

System	Diameter	Guide Diameter	Length(mm)	Ref.C
UF	Ø3.8	Ø5.0	10	R2TD38UF
	Ø4.0			R2TD40UF
	Ø4.5			R2TD45UF
	Ø5.0	Ø6.5		R2TD50UF
	Ø5.5			R2TD55UF

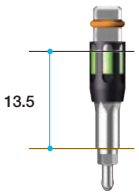


Components for R2 ISII Standard Kit

Implant Carrier

- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

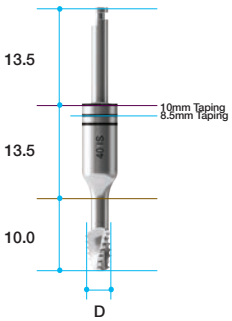
Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2518IS
			ICRH2523IS
	Ø6.5		ICWH2523IS



Tap Drill [Optional]

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture insertion. 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.

System	Diameter	Guide Diameter	Length(mm)	Ref.C
IS	Ø3.5	Ø5.0	10	R2TD35IS
	Ø4.0			R2TD40IS
	Ø4.5			R2TD45IS
	Ø5.0	Ø6.5		R2TD50IS



R2 Universal Kit

Maximize the cost- effectiveness & efficiency.

Ref.C
KAGUN3000

When you want to do R2GATE surgery with R2 Guide™, Please inform us your favorite implant system

Make your own R2 Surgical Kit with your favorite implant system. R2 Universal kit consists of basic drilling set which can be used for any implant system. You can add system options as “Implant Carrier”, “Cortical Bone Drill”, “Tap Drill” to your favorite implant system. The specification of final drills will be decided with treatment planning and delivered to you with R2 Guide™ will be from the R2 Design Center.

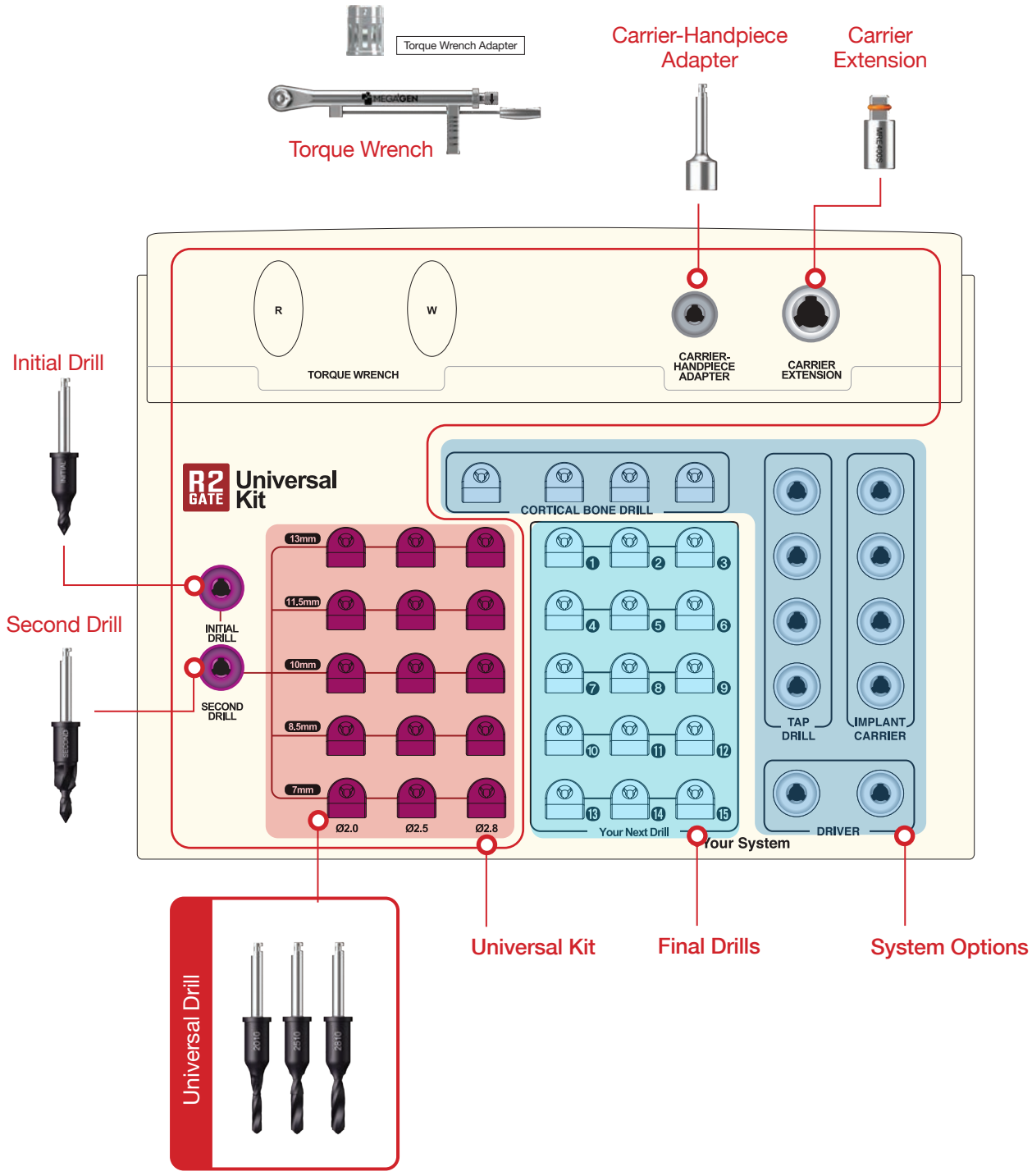
Universal Kit
Consisted of basic drilling set which can be used for any implant system

Customized instrument
for various implant system
AryRidge / BLUEDIAMOND Implant / AnyOne MiNi / ST BoneLevel(Straumann) / Nobel Active(Nobel Biocare) / SuperLine(Dentium) / TSIII(Osstem)
(Available system can be varied by country due to registration process)

Intermediate & final drill
will be delivered with R2 Guide™

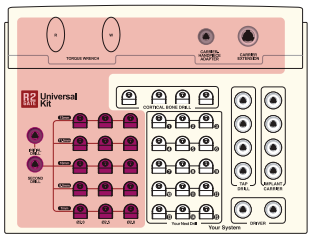
Product coordinator : Jung Ho Nam, rnd_implant1@imegagen.com

R2 Universal Kit



Drills & Component for R2 Universal Kit

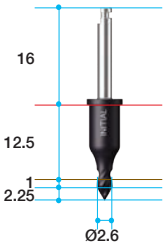
Basic drilling set for any implant system. It consists of initial drill, 2nd drill, universal drills and essential tools.



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 R2 Guide™.
- Recommended drilling speed range is 300 ~ 800 RPM with copious irrigation.

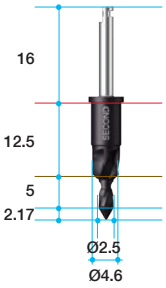
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.6	Ø5.0	1.0	R2ID2601



Second Drill

- This unique step-drill(from ⌀2.0 to ⌀4.6) is used to flare out the upper cortical bone of the osseotomy.
- It helps not only the rest drilling procedure but abutment connection. In case of hard bone, if the 2nd drilling will be disturbed by thick cortical bone. Stop the drilling and try it after final drilling procedure.

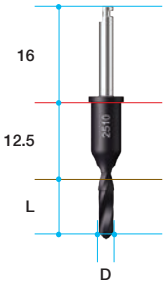
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.5	Ø5.0	5.0	R2SD2505



Stopper Drill

- Universal drills consist of ⌀2.0, ⌀.2.5, ⌀2.8 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	Ø5.0	6.5	R2SD2007
		8.0	R2SD2008
		9.5	R2SD2010
		11.0	R2SD2011
		12.5	R2SD2013
Ø2.5		6.5	R2SD2507
		8.0	R2SD2508
		9.5	R2SD2510
		11.0	R2SD2511
		12.5	R2SD2513
Ø2.8		6.5	R2SD2807
		8.0	R2SD2808
		9.5	R2SD2810
		11.0	R2SD2811
		12.5	R2SD2813



Carrier-Handpiece Adapter

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

Square	Ref.C
4.0	AGHA

Carrier Extension

- To extend the length of implant carrier.

Square	Ref.C
4.0	MRE400S

Torque Wrench & Adapter

- Torque Wrench has torque options from 15Ncm to 45Ncm and is used for the placement of an implant and final tightening of the Abutment Screw.

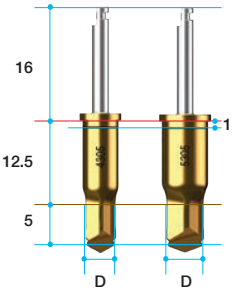
Type	Ref.C
Torque Wrench	TW70
Torque Wrench Adapter(Ratchet)	TTAR100

Ratchet

Cortical Bone Drill[AR]

- 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

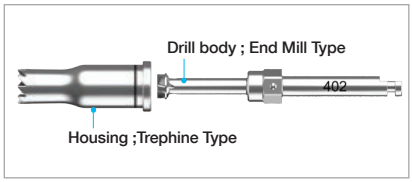


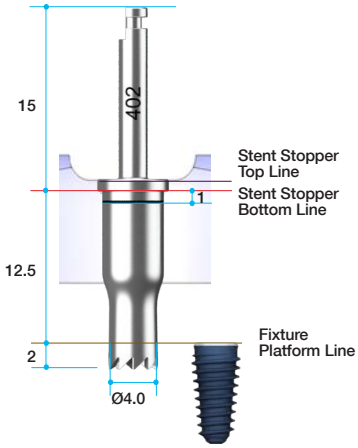
Optional Instrument

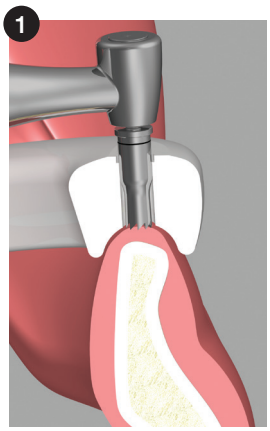
Narrow Crest Drill

- 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 disassembled. Easy to clean and remove bone chips
- Can harvest autogenous bone if it is used after soft tissue

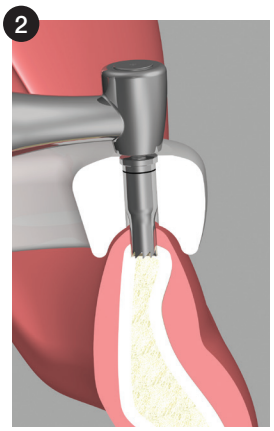
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø4.0	Ø5.0	15.5(12.5/2)	NCD402



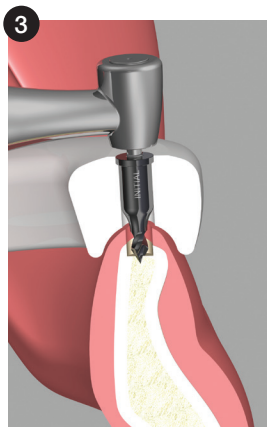




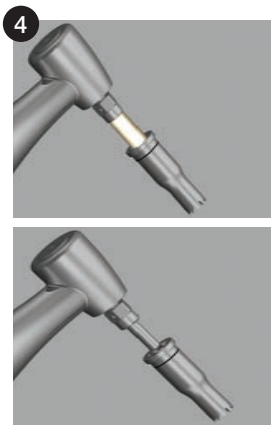
1 Set the site by drilling counter-clockwisely with low speed (≤100rpm)



2 Start drilling clockwisely (400~600rpm)



3 Bone is now flat. Perform drilling with proper drilling sequence.



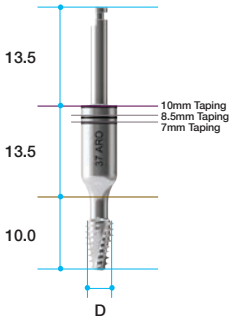
4 Disassemble body and housing after drilling to remove bone chip. Clean and sterilize after every usage.

1. System Options for BLUEDIAMOND IMPLANT

Tap Drills

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

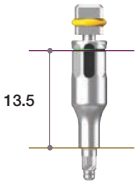
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	9.5	R2TD33ARO
Ø4.0			R2TD37ARO
Ø4.4			R2TD41ARO
Ø4.7			R2TD44ARO
Ø5.0			R2TD48ARO



Implant Carrier

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

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

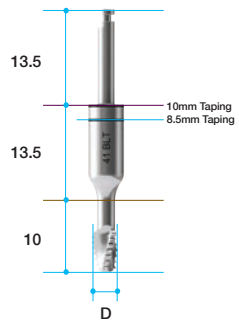


2. System Options for Straumann

Tap Drill [Optional]

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

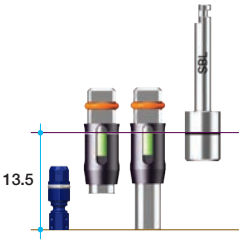
System	Diameter	Guide Diameter	Length(mm)	Ref.C
BoneLevel	Ø3.3	Ø5.0	10	R2TD33BL
	Ø4.1			R2TD41BL
	Ø4.8			R2TD48BL
Bone Level Taperd	Ø3.3	Ø5.0		R2TD33BLT
	Ø4.1			R2TD41BLT
	Ø4.8			R2TD48BLT
Standard & Standard Plus	Ø3.3	Ø5.0		R2TD33GL
	Ø4.1			R2TD41GL
	Ø4.8			R2TD48GL
	Ø4.8	Ø6.5		R2TD48WGL
Taperde Effect	Ø3.3	Ø5.0		R2TD33TE
	Ø4.1			R2TD41TE
	Ø4.8			R2TD48TE



Implant Carrier[BL & BLT]

- Can be differentiated into two types of mount based on its surface treatment and etc.
  - ICRSBL1 : Loxim Mount
  - ICRSBL2 : Used if Loxim mount is fractured
  - ICRSBN : Normal Mount
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direc-tion 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

System	Connection	Guide Diameter	Type	Ref.C
Bone Level, Bone Level T apered	Loxim Mount	Ø5.0	Ratchet	ICRSBL1
	Normal Mount			ICRSBL2
	Normal Mount			ICRSBN
	Loxim Mount		Handpiece	ICRSBNH
				ICRSBLH



Cautions for Bone Level_Implant Carrier

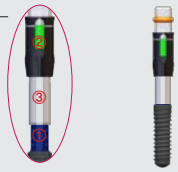
Loxim Mount

Normal Mount

ICRSBL1

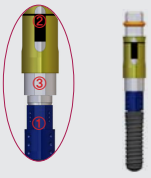
Implant carrier window ② or ③ has to be straight with undotted surface of Mount①.

ICRSBL2



Implant carrier window ② or ③ has to be straight with undotted surface of Mount①.

ICRSBN



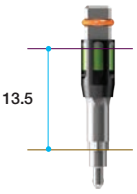
Implant carrier window ② or ③ has to be straight with undotted surface of Mount①.

3. System Options for Nobel Biocare

Implant Carrier [Optional]

- Two different implant carriers for regular stent since Ø3.5 fixture has different abutment con-nection- ICRH2224 : Ø3.5 fixture- ICRH2624 : Ø4.1, Ø5.0 fixture - ICWH2624
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direc- tion 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

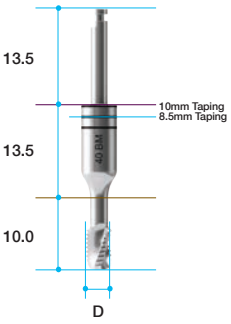
System	Connection	Guide Diameter	Type	Ref.C
Active & Conical Connection	2.2 Hex	Ø5.0	Ratchet	ICRH2224
	2.6 Hex			ICRH2624
	2.6 Hex	Ø6.5		ICWH2624
Replace Select Tapered & Straight	Trip 1	Ø5.0	Ratchet	ICRT35RT
	Trip 2			ICWT43RT
	Trip 3	Ø6.5		ICWT50RT



Tap Drill [Optional]

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture inser-tion. 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.

System	Diameter	Guide Diameter	Length(mm)	Ref.C
Active	Ø3.5	Ø5.0	10	R2TD35NA
	Ø4.3			R2TD43NA
	Ø5.0			R2TD50NA
Conical connection	Ø3.5	Ø5.0		R2TD35CC
	Ø4.3			R2TD43CC
	Ø5.0	Ø6.5		R2TD50CC
Replace Select Straight	Ø3.5	Ø5.0		R2TD33BM
	Ø3.7			R2TD37BM
	Ø4.3			R2TD40BM
	Ø5.0	Ø6.5		R2TD50BM

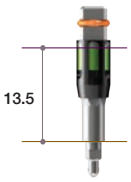


4. System Options for the Astra

Implant Carrier [Optional]

- Two different implant carriers for regular guide since Ø3.5 fixture has different abutment con-nection- ICRH2127OS : Ø3.0, Ø3.6,Ø4.2 fixture - ICWH2538OS : Ø4.3, Ø5.4 fixture
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, con-nect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

System	Connection	Guide Diameter	Type	Ref.C
OsseoSpeed TX	2.1 Hex	Ø5.0	Ratchet	ICRH2127OS
	2.5 Hex	Ø6.5		ICWH2538OS

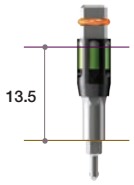


5. System Options for Biomet 3i

Implant Carrier [Optional]

- Two different implant carriers for regular guide since Ø3.5 fixture has different abutment connection- ICRH2221CT : Ø3.4, Ø4.1 fixture- ICWH2711CT : Ø5.0, Ø6.0 fixture
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

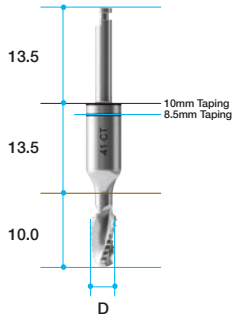
System	Connection	Guide Diameter	Type	Ref.C
Certain	Hex 2.2	Ø5.0	Ratchet	ICRH2221CT
	Hex 2.7	Ø6.5		ICWH2711CT



Tap Drill [Optional]

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture insertion. 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.

System	Diameter	Guide Diameter	Length(mm)	Ref.C
Certain	Ø3.4	Ø5.0	10	R2TD34CT
	Ø4.1			R2TD41CT
	Ø5.0	Ø6.5		R2TD50CT

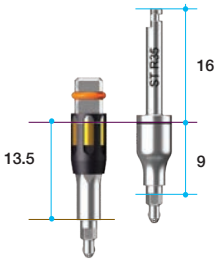


6. System Options for the TSIII

Implant Carrier [Optional]

- Two different implant carriers for regular guide since Ø3.5 fixture has different abutment connection- ICRH2127 : Ø3.5 fixture- ICRH2523O : Ø4.0, Ø4.5 fixture
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

Connection	Guide Diameter	Type	Ref.C
2.1 Hex	Ø5.0	Ratchet	ICRH2127
2.5 Hex			ICRH2523O
2.1 Hex		Handpiece	ICRH2127H
2.5 Hex			ICRH2523HO

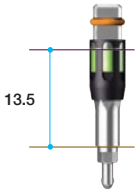


7. System Options for the SuperLine

Implant Carrier [Optional]

- Two different implant carriers for regular guide since Ø3.5 fixture has different abutment connection - ICRH2523SL : Ø3.4, Ø3.8, Ø4.3 fixture - ICWH2523SL : Ø4.8 fixture
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2523SL
	Ø6.5		ICWH2523SL

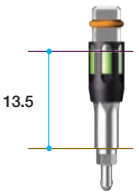


8. System Options for the ISII

Implant Carrier [Optional]

- Three different implant carriers for regular guide since Ø3.5 fixture has different abutment connection - ICRH2518IS : Ø3.5 fixture - ICRH2523IS : Ø4.0, Ø4.5 fixture - ICWH2523IS : Ø5.0 fixture
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

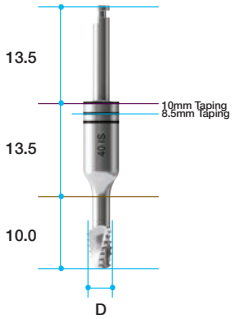
Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2518IS
			ICRH2523IS
	Ø6.5		ICWH2523IS



Tap Drill [Optional]

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture insertion. 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.

System	Diameter	Guide Diameter	Length(mm)	Ref.C
IS	Ø3.5	Ø5.0	10	R2TD35IS
	Ø4.0			R2TD40IS
	Ø4.5			R2TD45IS
	Ø5.0	Ø6.5		R2TD50IS

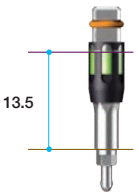


9. System Options for the UFII

Implant Carrier [Optional]

- Two different implant carriers for regular guide since Ø3.5 fixture has different abutment connection - ICRH2523UF : Ø3.8, Ø4.0, Ø4.5, Ø5.0, Ø5.5 fixture
- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direction 2~3 times manually.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

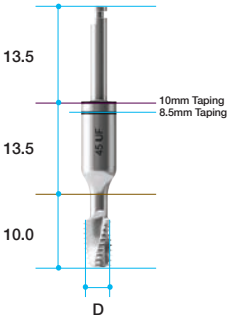
Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2523UF
	Ø6.5		ICWH2523UF



Tap Drill [Optional]

- The purpose of tab drills in the universal kit system is insertion test. some of implant are required this procedure before final fixture insertion. 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.

System	Diameter	Guide Diameter	Length(mm)	Ref.C
UF	Ø3.8	Ø5.0	10	R2TD38UF
	Ø4.0			R2TD40UF
	Ø4.5			R2TD45UF
	Ø5.0	Ø6.5		R2TD50UF
	Ø5.5			R2TD55UF



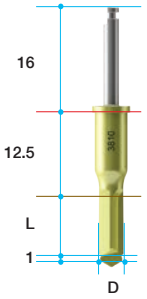
Final Drill Option

Stopper Drill[Straight]

For all implant system

- Common use
- Step back type drillling
- Provided from local R2GATE Design Center to users. The size of disposable drills are decided depend size on treatment planning regarding to fixture size and bone density of patient.
- Recommended drilling speed is 300 ~ 800 RPM.
- Final drill.
- The base is disposable and can be made for permanent under your order.

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.4	Ø5.0	7.0	R2PS3407
		8.0	R2PS3408
		9.0	R2PS3409
		10.0	R2PS3410
		11.0	R2PS3411
		12.0	R2PS3412
		13.0	R2PS3413
Ø3.8		7.0	R2PS3807
		8.0	R2PS3808
		9.0	R2PS3809
		10.0	R2PS3810
		11.0	R2PS3811
		12.0	R2PS3812
		13.0	R2PS3813
Ø4.3		7.0	R2PS4307
		8.0	R2PS4308
		9.0	R2PS4309
		10.0	R2PS4310
		11.0	R2PS4311
		12.0	R2PS4312
		13.0	R2PS4313
Ø4.8	Ø6.5	7.0	R2PS4807
		8.0	R2PS4808
		9.0	R2PS4809
		10.0	R2PS4810
		11.0	R2PS4811
		12.0	R2PS4812
		13.0	R2PS4813
Ø5.3		7.0	R2PS5307
		8.0	R2PS5308
		9.0	R2PS5309
		10.0	R2PS5310
		11.0	R2PS5311
		12.0	R2PS5312
		13.0	R2PS5313
Ø5.8		7.0	R2PS5807
		8.0	R2PS5808
		9.0	R2PS5809
		10.0	R2PS5810
		11.0	R2PS5811
		12.0	R2PS5812
		13/0	R2PS5813

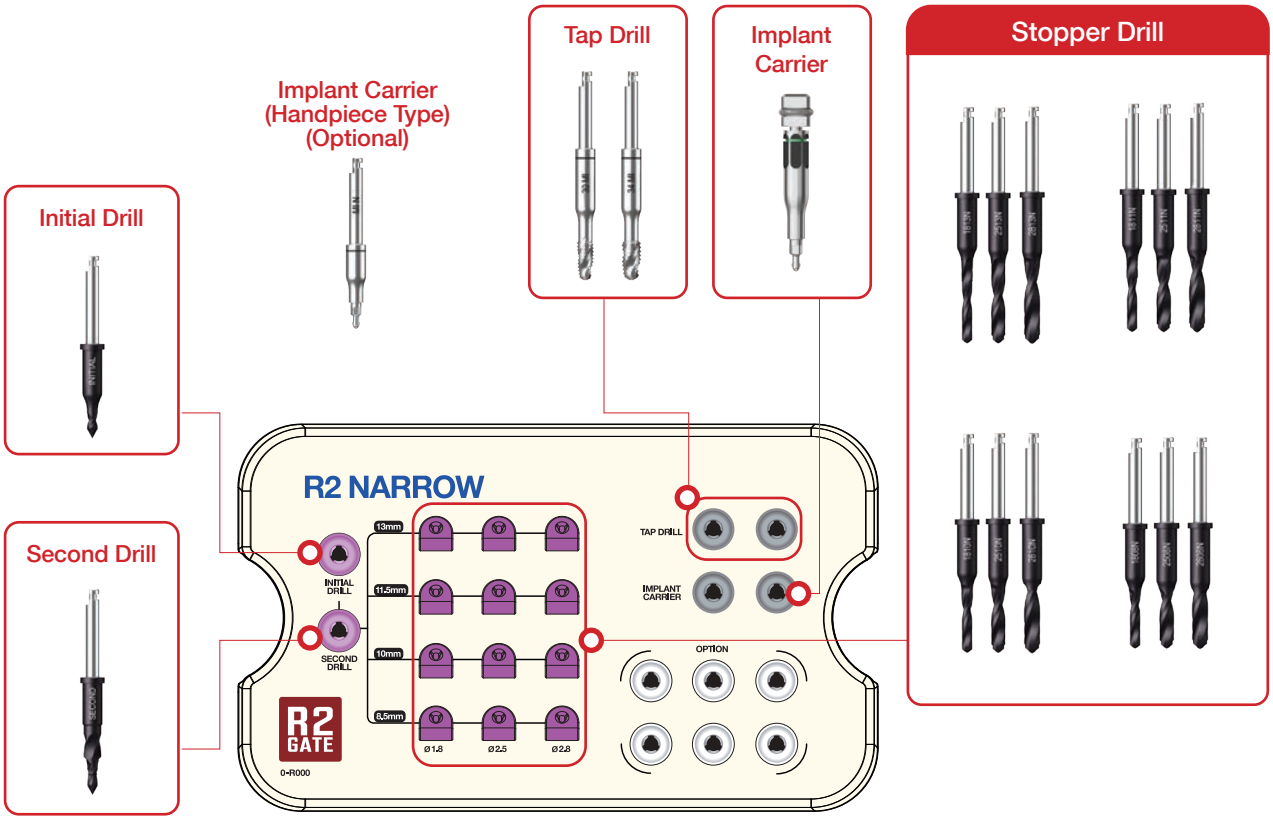


Permanent

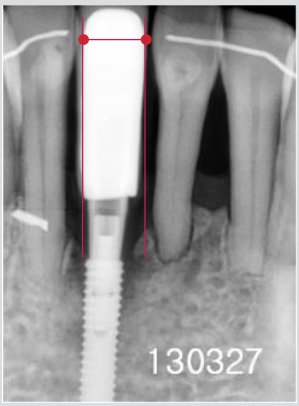
R2 Narrow Kit

Ref.C

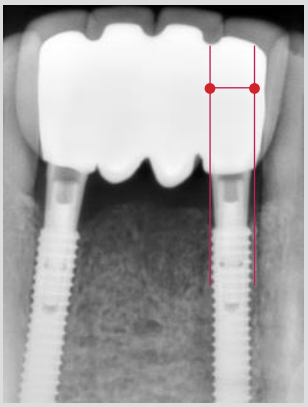
KAGNS3000



When do we use R2 Narrow Kit?



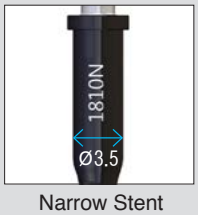
[Mandible single case]
When Ø5.0 stent cannot be fabricated due to narrow distance between the teeth.



[Mandible multiple case]
When fixture cannot be place near adjacent teeth due to large stent core on regular stent.

Regular VS Narrow Stent Guide Core

Regular Stent
[Guide Core Ø5]



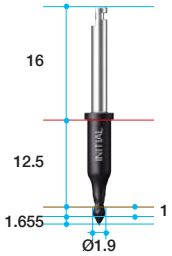
Narrow Stent
[Guide Core Ø3.5]

Components of R2 Narrow Kit

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 R2 Guide™.
- Recommended drilling speed range is 300 ~ 800 RPM with copious irrigation.

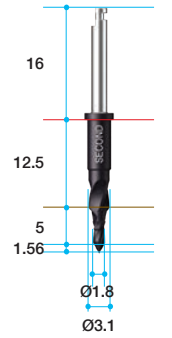
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø1.9	Ø3.5	1.0	R2ID1901N



Second Drill

- This unique step-drill(from Ø2.0 to Ø3.1) is used to flare out the upper cortical bone of the osseotomy.
- It helps not only the rest drilling procedure but abut- ment connection. In case of hard bone, if the 2nd drilling will be disturbed by thick cortical bone. Stop the drilling and try it after final drilling procedure.

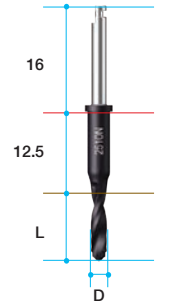
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø1.8	Ø3.5	5.0	R2SD1805N



Stopper Drill

- Universal drills consist of Ø2.0, Ø.2.5, Ø2.8 diam- eter 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.

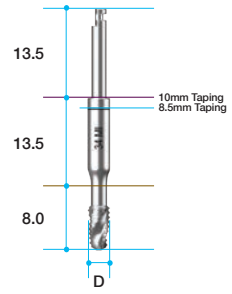
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø1.8	Ø3.5	8.0	R2SD1808N
		9.5	R2SD1810N
		11.0	R2SD1811N
		12.5	R2SD1813N
Ø2.5		8.0	R2SD2508N
		9.5	R2SD2510N
		11.0	R2SD2511N
		12.5	R2SD2513N
Ø2.8		8.0	R2SD2808N
		9.5	R2SD2810N
		11.0	R2SD2811N
		12.5	R2SD2813N



Tap Drill

- The purpose of tab drills in the universal kit system is insertion test.
- Recommended insertion torque and speed is 45 ~ 50Ncm, under 40 RPM.

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.0	Ø3.5	8.0	R2TD30MI
Ø3.4			R2TD34MI

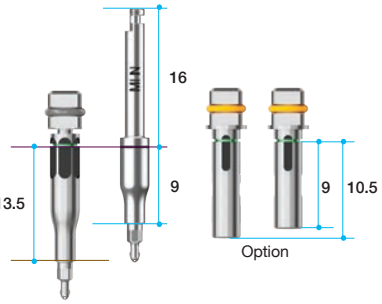


Implant Carrier

- To pick up the fixture from the ampule and insert it to the ossetomy. Then turn it to clock-wise direc- tion 2~3 times manualy.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

System	Connection	Guide Diameter	Type	Ref.C
MiNi	1.7 Hex	Ø3.5	Ratchet	ICNH1722
			Handpiece	ICNH1722H
Advanced Intermezzo	2.3 Hex		Cuff 2.0	*ICNH2302
			Cuff 3.5	*ICNH2303

(*) Separate sales item.



Anchor Kit

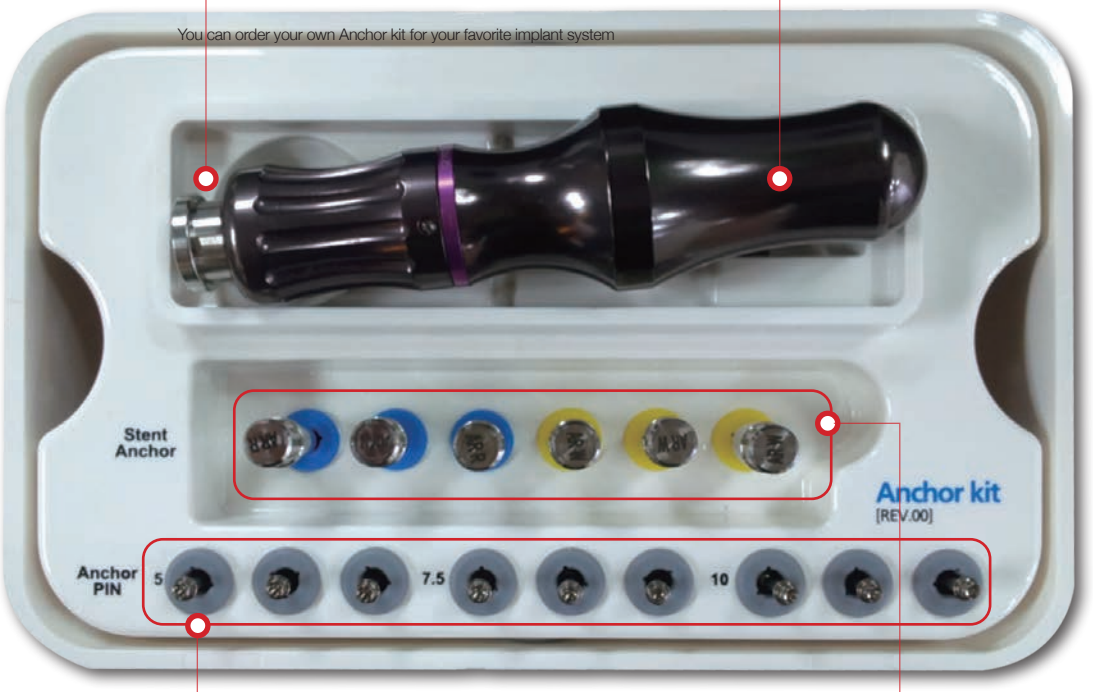
For an edentulous case or free end case, R2 Guide™ is fixed with Anchor Pins specially designed for stability of the R2 Guide™.

System	Ref.C
AnyRidge	KAGAS3000
BLUEDIAMOND	KAGAS3002
AnyOne	KAGAS3001

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

Torx Tip

Tip Driver



Anchor Pin

Stent Anchor

M1.6 (BLUEDIAMOND IMPLANT) | M1.8 (AnyRidge) | M2.0 (AnyOne)

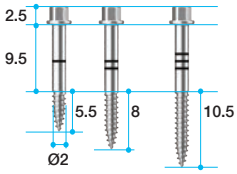
Product coordinator : Jung Ho Nam, rnd_implant1@imegagen.com

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

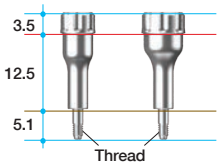


Stent Anchor

- Connect through Hand & Hand Driver

Thread	Guide Diameter	Ref.C
M1.6 (BLUEDIAMOND IMPLANT)	Ø5.0	AGSANR16
	Ø5.0	AGSARR16
	Ø6.5	*AGSARW16
M1.8 (AnyRidge)	Ø5.0	AGSAR18
	Ø6.5	AGSAW18
M2.0 (AnyOne)	Ø5.0	AGSAR20
	Ø6.5	AGSAW20

(*) Separate sales item.



Trox Tip

Length(mm)	Ref.C
80	AGTT80

Tip Driver

Ref.C
TD

▸▸ How to use Anchor Kit?

Case 1.

When it is possible to get stability from neighboring teeth. (No need to use the Anchor kit)

Place the R2 Guide™ by placing it onto the neighboring teeth.

Case 2.

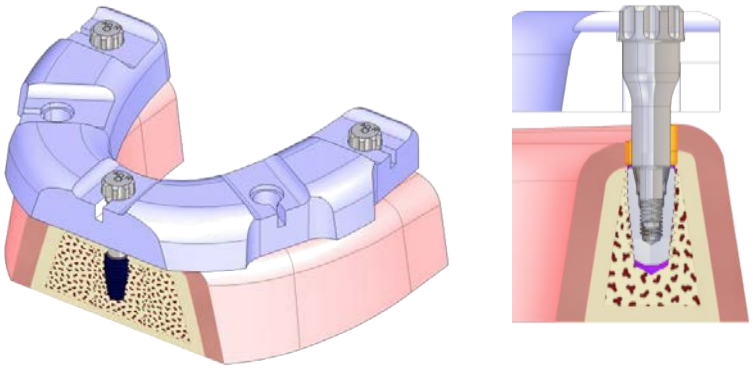
When it is hard to get stability from fully edentulous case or neighboring teeth.

1. Fix the R2 Guide™ temporarily by asking patient to bite the R2 Guide™ using a resin or other tools.
2. Please use the Pin that R2GATE® program selected, and place that Pin on the Driver Tip.
3. Insert the Pin into the R2 Guide™ that the patient is biting, and turn it into clockwise to fix the R2 Guide™ to bone.

*Make a hole on the Guide using Ø2.0 Drill if a density of the bone is high. Then, insert the Anchor Pin into the hole.

Case 3.

- When it is necessary to re-implant a fixture after separating the R2 Guide™.
- When the stability of the R2 Guide™ is weak even though all planned Anchor Pins are used (This is only for the cases with edentulous jaws and implantations of three or more fixtures).



*** Cases for re-implant a fixture after failure**

1. Check the condition of an implanted fixture after a separation of a R2 Guide™. Evulse the fixture when the implantation is considered as a failure for lack of stability or a path is inaccurate.
2. Replace the R2 Guide™. Insert the R2 Guide™ Anchor to the R2 Guide™ Hole of the neighboring fixture, and place the R2 Guide™ by turning it into clockwise.

*** When it is hard to get stability of the R2 Guide™ by an Anchor Pin only**

1. When the stability of a fixture by an Anchor Pin only is low, start an implantation from molar areas. Then, connect the R2 Guide™ Anchor with an installed fixture to increase stability.

MegaGen Digital Solution

MegaGen Digital Solution

WORK FLOW

Digital Equipment

3D Imaging

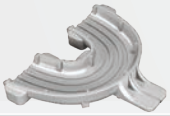
CBCT

MEDIT i-series intra oral scanner

N2 Unit Chair

T-scanner (model)

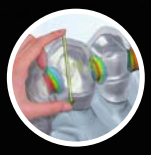
Materials



R2 TRAY

Scan Abutment

Important for Dentists



MegaGen Provides CAD*less* Solution!

Just send a scan data. MegaGen R2 Digital Center will take care of the design.
The designed file will be sent to you within an hour.

Tx. planning & Design | **Digital Cad Design** | **In-lab Equipment**

R2GATE® Premium

R2CAD

MEG-Printer IIQ

BX5 Plus

X5

Surgical KIT

R2 Package

Resin

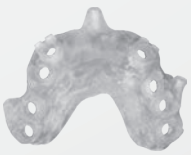
PMMA Abutment

TiGEN Abutment

Blocks

Blocks

R2 Guided Surgery
& ONE-DAY Implant™



R2 Guide™

R2 Guide™

Zr. Custom

Temporary Crown

Abutment-integrated semi-crown

Ti-Custom

Final Crown

Digital Equipment

I. Intra-Oral Scanner

1. MEDIT i700 wireless

NEW

i700 wireless specifications		
Scanning		Up to 70 FPS
Imaging Technology		3D full color streaming capture
Accuracy (full arch)		10.9 µm + 0.98
Handpiece	Weight	328g (included battery)
	Dimensions	313 x 44 x 47.4mm
Tip	Autoclavable	150 times
	Reversible tip	yes
UV-C LED Disinfection		yes
Remote Control Mode		yes
Connectivity		Wireless (USB 3.1 wireless Hub)

Medit i700 wireless

Magic made easy with a simple touch

The convenience of wireless is added to the speed and function of the i700. Scanning is possible in any environment.

- Wireless system
- Superfast scanning
- High Accuracy
- NO Annual fee
- Free S/W update
- Jog dial

I. Intra-Oral Scanner NEW
2. MEDIT i700

i700 specifications		
Scanning		Up to 70 FPS
Imaging Technology		3D full color streaming capture
Accuracy (full arch)		10.9 µm + 0.98
Handpiece	Weight	245g
	Dimensions	248 x 44 x 47.4mm
Tip	Autoclavable	150 times
	Reversible tip	yes
UV-C LED Disinfection		yes
Remote Control Mode		yes
Connectivity		USB 3.1 Gen 1 (Cable length 2.0m)

Medit i700

Better for patients, easier for Dentists

Top class scanning speed of 70fps
and light weight
Best seller Intra oral scanner.

- Superfast scanning
- High Accuracy
- NO Annual fee
- Free S/W update
- Jog dial

NEW

I. Intra-Oral Scanner

3. MEDIT i600

i600 specifications		
Scanning		Up to 35 FPS
Imaging Technology		3D full color streaming capture
Accuracy (full arch)		10.9 µm + 0.98
Handpiece	Weight	328g (included battery)
	Dimensions	313 x 44 x 47.4mm
Tip	Autoclavable	100 times
	Reversible tip	yes
UV-C LED Disinfection		no
Remote Control Mode		no
Connectivity		USB 3.1 Gen 1 (Cable length 2.0m)

Medit i600

Digital dentistry at Your Finger tips

Best cost-effective oral scanner.
The i600 uses the same SW as the i700 (i700 wireless).
Start digital dentistry at an affordable price.

- Fast scanning
- High Accuracy
- NO Annual fee
- Free S/W update
- Reasonable price

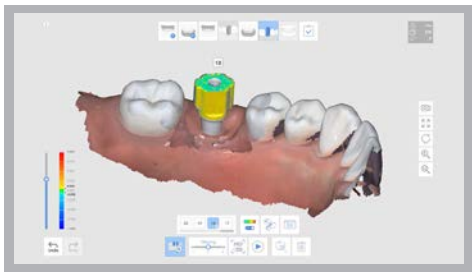
MEDIT i-series intra oral scanner

Category		i700 wireless	i700	i600
Scanning		Up to 70 FPS	Up to 70 FPS	Up to 35 FPS
Imaging Technology		3D full color streaming capture		
Accuracy (full arch)		10.9 μm + 0.98		
Handpiece	Weight	328g (included battery)	245g	245g
	Dimensions	313 x 44 x 47.4mm	248 x 44 x 47.4mm	
Tip	Autoclavable	150 times	100 times	
	Reversible Tip	Yes	Yes	Yes
UV-C LED Disinfection		Yes	Yes	No
Connectivity		Wireless	USB 3.1 Gen 1	USB 3.1 Gen 1

Patient chair time is down!
Staff comfort and dentists' treatment approval is up!

▸▸ MEDIT i-series intra oral scanner

A.I. Abutment & Scanbody Matching



This function allows you to match scan abutments and scan bodies, thus saving time in instances of poor scanning environments. You can select the appropriate library for your tooth. When you scan the corresponding tooth, the scan abutment and scan body are automatically matched and aligned with the scan data. The aligned library data can be used for downstream work such as design. A manual alignment option is also available.

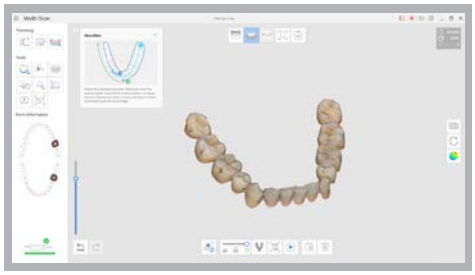
Pre-Operation Scan

You can perform a pre-operation scan of a patient's teeth and utilize this data for a variety of uses. With this pre-operation scan data, the post-operation scan can be performed more quickly and easily. The data can also be used as reference data in the modeling process to assist you in creating more natural prosthesis.

Face Scan

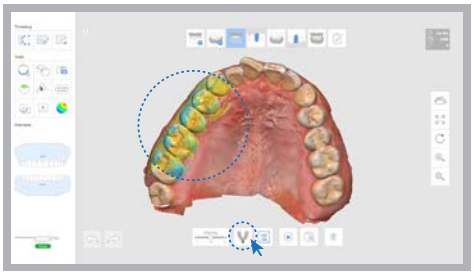
You can perform a face scan with the i-series scanner and align it with imported data such as 3D face scan data taken with other facial scanners or 3D bone data which has been converted from DICOM files taken via CT.

Smart Scan Filtering

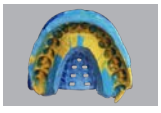


This feature helps to remove unnecessary soft tissue data which is one of the biggest challenges when performing scans. The three filter options allow you to choose the amount of soft tissue you wish to capture in your scan data.

Impression Scan



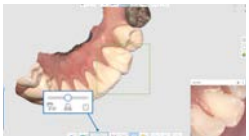
This function supports composite scanning operations which use both embossed oral scan data and engraved impression scan data.
With just a simple scan, both data can be sorted and merged in real-time and used for modeling.



Fast impression taking Reduce chair time

1. Maxillary/mandibular, full mouth impressions can be completed in 3 minutes!

- at maximum scan speed, 70fps: 30 seconds for a full mouth scan or; 20 seconds for one side
- more precise and faster full mouth scan with Smart arch scan



2. With the digital approach, full mouth implant impression can be taken in just 10 minutes!

- Scan with a digital impression coping mounted, AI then automatically finds a matching coping for the implant system.

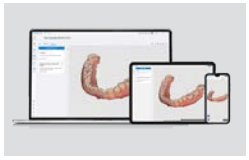
Free SW enhancing patient approval for esthetic prosthetic, orthodontic or implant procedures

1. Consult patients on smile instantly with the Smile Design app

- Simulate procedures and give consultations on treatments for teeth most suitable for patients using various teeth in the Smile Tooth library.
- Various patient consultation modes are available including orthodontic bracket attachment, tooth size and color change.

2. Increase patient treatment approval by presenting before and after images of orthodontic or prosthetic treatments.

- Orthodontic simulation enables consultation by presenting analysis of tooth movements, checking gingival changes, and even expected treatment outcomes.
- Teeth movements and positions, and gum changes after implant procedures can also be simulated.
- The results of simulation used for consultation, and patients' oral photo data can be transmitted to patients through MEDIT Case talk.



Use i-series scanner digital treatment in various ways.

1. Patient consultation, consult on esthetic prosthetics and send the result to patient smartphone.

i-series scanner	Digital scan & take smile photos Smile design, simulate esthetic prosthetic procedure
patient consultation	Send the result to patient's smartphone using Case talk

2. Flipper digital scanning / flipper fabrication before extraction

before/after extraction	Scan patient mouth with i-series scanner
send to lab	Fabricate digital flipper
patient consultation	Set the flipper in the mouth after extraction

3. Implant prosthetics easy & fast implant impression taking/customized abutment

Implant surgery	Connect healing abutment
i-series scanner	Scan healing abutment
send to lab	Fabricate custom-abutment
patient visit	Set highly satisfactory custom-abutment.

4. Temporary Denture easy denture fabrication with denture scan

i-series scanner	Scan patient denture with i-series scanner
send to lab	Send digital denture to lab
lab communication	Relining / Rebasing
patient visit	Set temporary denture before/ after implant surgery

NEW

II. Model Scanner

1. Medit T-Series

Equipment Specifications (T710 / T510 / T310)			
Resolution of camera	Mono 5.0(MP) x 4	Mono 5.0(MP) x 2	Mono 5.0(MP) x 2
Point spacing		0.040 mm	
Scan area		100mm x 73mm x 60mm	
Scan principle		Phase-shifting optical triangulation	
Size		505mm x 271mm x 340 mm	
Weight		15 kg	
Light source		LED, 150 ANSI-lumens, Blue LED	
Connection		USB 3.0 B Type	
Power		AC 100-240V, 50-60 Hz	
Accuracy (ISO 12836)	4μm	7μm	9μm
Full arch scan speed	8 sec(7cut)	12 sec(7cut)	18 sec(7cut)
Full arch impression scan speed	45 sec	X	X
Auto-elevation	○	○	○
Color texture	○	○	○
Flexible scanning	○	○	Optional
Articulator scanning	○	○	Optional
Replica denture	○	Optional	Optional
Orthodontic scanning	○	Optional	Optional
Impression scanning	○	X	X

Our fastest, yet again

From the company that brought you the first blue-light tabletop scanner, introducing the Medit T710, the fastest Medit tabletop scanner you have yet to experience.


Medit T510


Medit T710


Medit T310

- Superfast scanning
- High-resolution cameras
- High accuracy
- Auto-elevation
- Open system

Do more with less effort

We've always prioritized simplicity when developing our solutions. Because we want to ease your work. So we are proud to present to you our new T-Series dental tabletop scanners which allow you to do more with less effort.

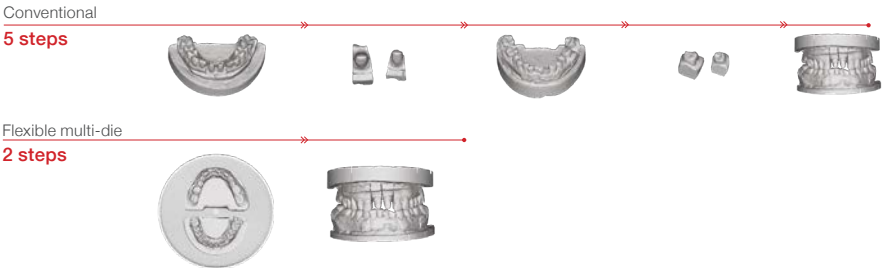
Auto-elevation
We've done away with stacking half-jigs to save you the hassle of adjusting your scanning object every time. Let the scanner decide the scanning height for your object with our auto-elevation feature.

Wider scan area
Scan more objects at the same time thanks to the wider scan area of our T-Series scanners!

No blind spots
The 4 cameras in the T710 are positioned in a way to ensure that there are no blind spots in your scan data. It only takes one scan to get the full data!

Convenience

Flexible multi-die scanning
Make your work more efficient by using the flexible multi-die to scan a full-arch or partials with multiple dies simultaneously.



Most versatile articulators integration

Full-size articulator scanning
To reproduce the exact occlusion orientation, nothing beats scanning the occlusion in the articulator itself. We've designed our T-Series to accommodate any articulator available in the market, comfortably.

NEW

III. Auto - CAD Solution

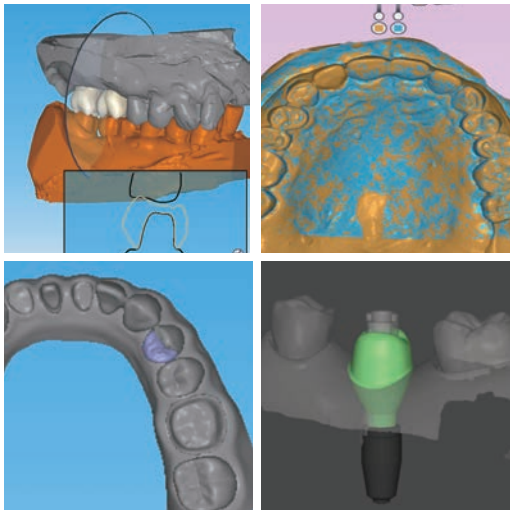
1. R2CAD

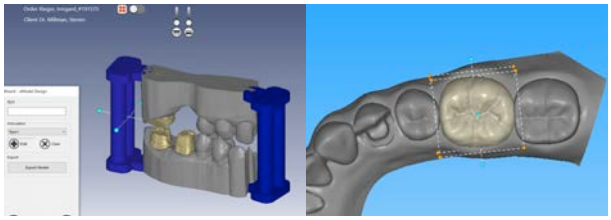
Ref.C

R2-CAD

Chairside CAD that anyone can use easily

- Implant module (Cuff TiGEN, PMMA Abutment)
- Provisional Crown
- Mesh Aligner
- 2D Cross section view
- Model Builder
- Shortcut keys by function



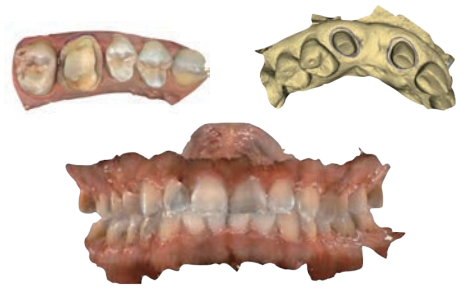


Best compatibility with oral scanners

Modeless case, is it difficult?
R2CAD Model Builder is installed as standard.
Digital modeling of oral scan files enables more precise production.

Clinical validation completed

Excellent fit and work convenience verification in clinical cases with cad data compatible with any equipment has been completed.



R2 CAD
Handy, Faster Dental CAD solution.

Download
https://www.r2gate.com/r2cad

NEW

IV. Auto - CAM Lab Solution

1. MEG-Printer IIQ

MEG PRINTER IIQ SPECIFICATIONS	
Printing Method	DLP (Digital Light Processing)
Build Size	100 x 60 x 70mm
Build thickness	25㎛ ~ 100㎛
Light Lamp	LED
Printing Materials	Light Curing Resin
Spec	W310 x D210 x H350mm Weight : 10kg

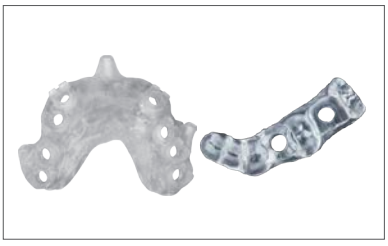
Pragmatical 3D-Printer for Clinic

- Simple procedures.
- Fast modeling time.
- Accurate result.
- Cost-effective & User friendly.
- Build time (25min)

Temporary crowns and bridges

Printing time : 20-25 min
Accuracy avg. 40㎛

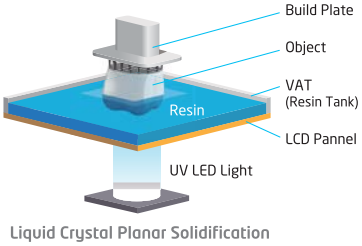
Surgical guides



Printing time : Full arch 40-50 min
Half 25-30 min
Accuracy avg. 50㎛

Dental models

Printing time : 40-50 min
Accuracy avg. 50㎛



Liquid Crystal Planar Solidification

MEG-PRINTER IIQ Technology

MEG-PRINTER IIQ utilizes LCD techology, the ones used in mobile phones. LCPS provides fast printing with a high precision and an improved uniformity in a compact conventional printer size body.

Disposable vats for easy management

MEG-PRINTER IIQ adopted the disposable vats to guide users to have less trouble managing vats and reduce wasted resin material

NEW

IV. Auto - CAM Lab Solution
2. BX5 Plus

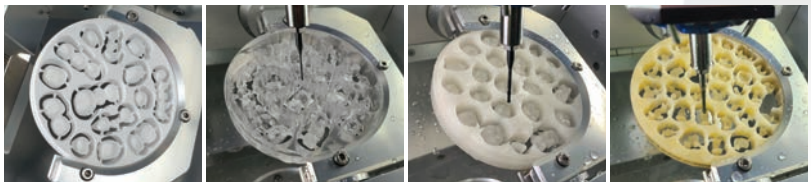
BX5 Plus SPECIFICATIONS	
Axis / Type	5 Axes / Wet & Dry (option)
Tool Pocket	10ea
Size	W: 481mm / D: 511mm / H: 742mm
Weight	70kg
Material	TiGEN Abutment, Glass Ceramic, Hybrid Ceramic, PMMA, Wax, Zirconia

ChairSide Digital Total Solution

- One-stop solution - from guide thru customized abutment, temporary crown, & even final crown

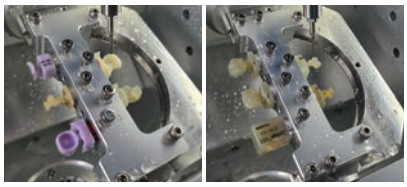
Applications

Disc type (Dry & Wet)



Zirconia (Dry option) | Surgical Guide (Wet) | PMMA (Wet) | Hybrid Resin (Wet)

Cerec rod type



Glass Ceramic | Hybrid Resin

Pre-milled type

TiGEN Abutment | PMMA Abutment | For NT-Trading, Medentika (Optional pre-milled jig)

Materials

Disc type

R2iCE Multi-layer zirconia
Refer to Page. 586

WAX

PMMA Block (Guide, Temp. Cr.)

Multi-Layered PMMA Block

Cerec rod type

Glass ceramic
Refer to Page. 587

Hybrid resin

Pre-milled type

TiGEN Abutment
Refer to Page. 601

PMMA Abutment
Refer to Page. 593

Reverse Jig Connector
Refer to Page. 606

NEW

IV. Auto - CAM Lab Solution

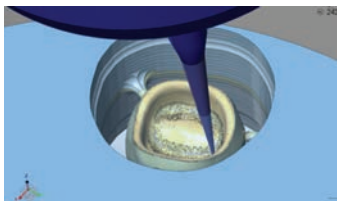
3. X5

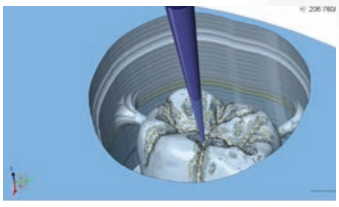
X5 SPECIFICATIONS	
Axis / Type	5 Axis / Wet
Tool Pocket	9ea
Size	W: 392 / D: 549 / H: 575 (mm)
Weight	36kg
Material	Zirconia, Hybrid Ceramic, PMMA, Wax

Digital Crown Solution

- More accurate prosthetic CAD/CAM with minimal investment
- Compact size for easy installation
- 5-axis low-noise milling

Produce more accurate prostheses



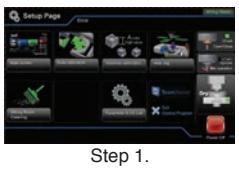


· Improved reproducibility due to final processing with Ø0.3mm tool (rival machines stop at Ø0.6mm)
· Inner corner machining in case of severe undercut
· Improved occlusal micro-area milling

Easy design functions & program operation

· Free installation, free training, NO annual fee

Simple auto-calibration with just one click!

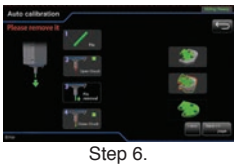

Step 1.


Step 2.


Step 3.


Step 4.


Step 5.


Step 6.

1. Zirconia
Production time: 20min / crown

2. PMMA
Production time: 20min / crown

3. Hybrid Ceramic
Production time: 15min / inlay

4. Wax
Production time: 10min / crown

NEW

IV. Auto - CAM Lab Solution

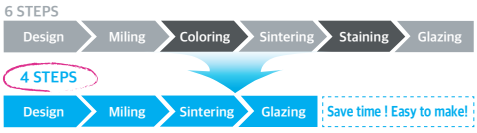
4. R2iCE Multi-layer zirconia

R2iCE Specifications (AT / PT)				
Common	Product	AT	PT	
	Transparency	48%	45%	
	Flexural Strength	800 ~ 1,100 Mpa	1,100 ~ 1,350 Mpa	
Disk type	Height	12/14/16/ 18/ 20/ 22/ 25/ 30		
	Shade	A1 / A2 / A3 / A3.5 / A4 / B1 / B2		
CEREC type	Product	C800ML	C1100ML	
	Flexural Strength	800 Mpa	1,100 Mpa	
	Shade	A2, A3	A2, A3	A2
	Size (LxWxHmm)	55 x 19 x 15.5	55 x 19 x 15.5	65 x 25 x 22
	Indication	Max 3 unit	Max 3 unit	Max 5 unit

Make your own esthetic zirconia crowns

- Increased daily efficiency for making prosthetics
- Reduced production time for zirconia crowns improves patient scheduling
- Letting you determine the quality of your crowns

· Pre-formed layers provide gradation effect without separate coloring, making it easy to achieve the desired shade
· Mill multiple crowns with different shades from one block
· Use CAM software to fine-tune top, middle, & bottom shades



Coloring & stain work DOWN! Time efficiency UP!

· Determine correct shade within 1 min (single unit)
· Produce your own superior prosthetics in less time

VITA classical shade guide

· 4 gradations similar to natural teeth + 16 shade line-up from A1 to D4

Good light transmittance & excellent strength

· Esthetic anterior zirconia prosthetics with good light transmittance & excellent color tones
· 1100~1300mpa for posterior, where strength is important (850~1150mpa for anterior)
· No problem with warping in case of 5-unit bridge

Clinical Cases

Made by CDT. Beom-Jin Choi

Made by DT. Young Kyu Park

NEW

IV. Auto - CAM Lab Solution

5. Hass Amber Mill

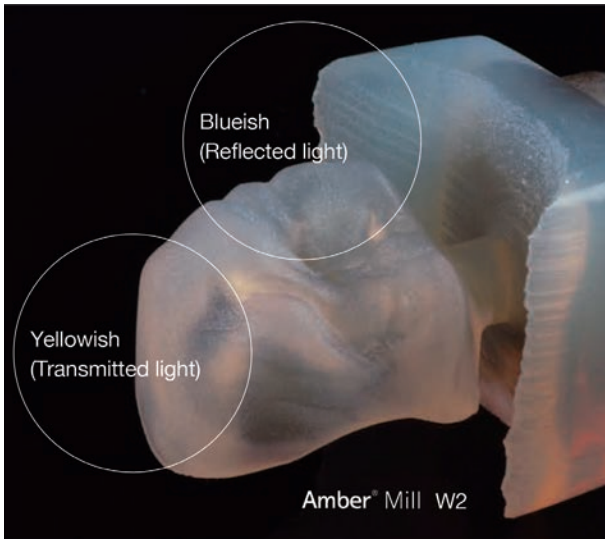
Hass Amber Mill Specifications			
Materier		Lithium Disilicate-Based	
Size	C12	10 x 12 x 15mm	1 box 5 blocks
	C14	12 x 14 x 18mm	
	C32	14 x 14 x 15mm	1 box 5 blocks
	C40	15 x 15 x 38 mm	
Shade		A1~A4 / B1~ B4 / C1 ~ C4 D1~D4 / W1~W4	
Flexure Strength (MPa)		250 Mpa (for milling)	
		450 Mpa (Final state)	
Indications		Inlay / Onlays / Veneers / Anterior Single crown / Posterior single crown / Max 3 unit / Max 5 unit	

Representation of Natural Beauty

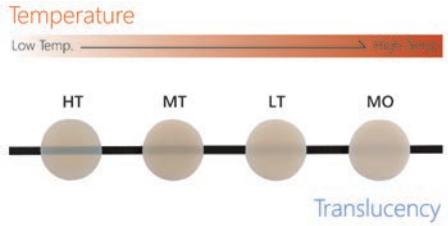
- Aesthetic values
- Structural stability
- Edge stability on NLD technology
- Multi-chromatic Gradation Effect

New Frontier of Lithium Disilicate-Based CAD/CAM blocks.
Four different translucencies(HT, MT, LT, MO) in one block.
Choose your own translucency just by changing crystallization temperature.

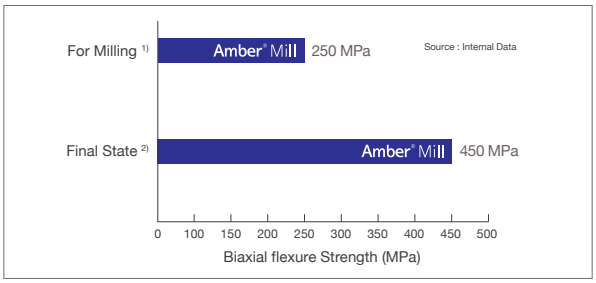
Natural Opalescence & Fluorescence



Innovation That Works for You



Strength for Aesthetic Longevity



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 Coping


PMMA Provisional Crown


ZrGEN Monolithic


ZrGEN Crown


ZrGEN Bridge


ZrGEN Coping for PFZ

ZrGEN® Sub Structure


ZrGEN Abutment


Zirconia customized body


Zirconia Final Crown

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.


Tooth shade cuff area


Minimized Ti-connection

II. TiGEN®

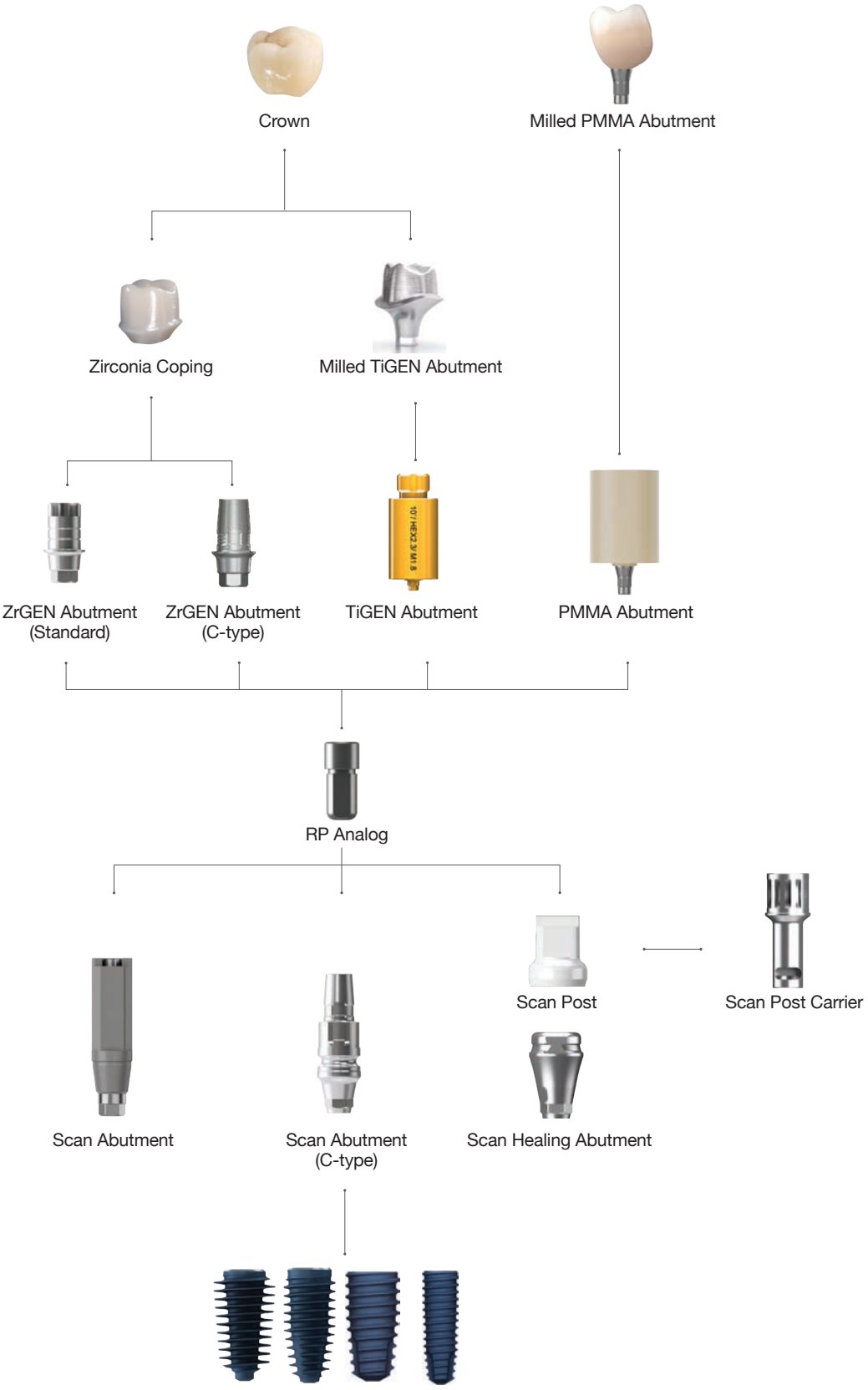
TiGEN® is the brand name of MegaGen's Pre-milled Abutment.
It promises outstanding durability and simplified dental implant prosthesis. Ready-made connection part provides a strong and precise connection with the implant fixture.



Clinical Application

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

Digital Prosthesis



Scan Abutment Option

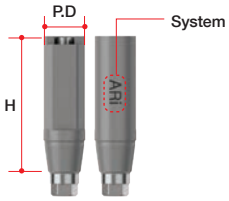
Scan Abutment

- Abutment Screw included.
  - ✓ AnyRidge (SAAANMSF)
  - ✓ BLUEDIAMOND NC (SAAROAS16B)
  - ✓ BLUEDIAMOND RC (SAAROAS16)
  - ✓ AnyOne Internal (SAAS20)
  - ✓ AnyOne External Small (SASCS160)
  - ✓ AnyOne External Regular (SARCS200)
  - ✓ AnyOne Onestage (SAEXIMS100)
  - ✓ MiNi (SAMIAS14)
  - ✓ ST Mini (SAOSGSAS3110)
  - ✓ ST Regular (SAOSGSAS3210)
  - ✓ 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
BLUEDIAMOND IMPLANT	NC	Ø4.0	13	AROSANT
	RC			AROSART
AnyOne Internal		Ø4.0	9	AAOISR4009T
			13	AAOISR4013T
AnyOne External	S	Ø4.0	9	AEXESS4009T
			13	AEXESS4013T
	R W		9	AEXESR4009T
			13	AEXESR4013T
AnyOne Onestage		Ø4.0	10	AEXISR4010T
MiNi		Ø3.5	9	MISS3509T
			13	MISS3513T
ST	Mini	Ø4.0	9	OSGSSC3110T
			13	OSGSSC3111T
	Regular		9	OSGSSC3210T
			13	OSGSSC3211T
Octa Level		Ø4.0	11	AOCESC4011T
MUA Level (N Type)		Ø4.0	13	AMUASR4013T

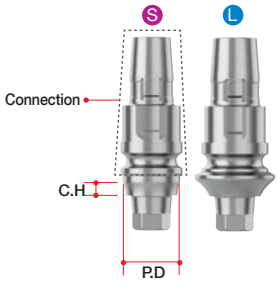


- Abutment Screw included.
  - ✓ AnyRidge (SAAANMSF)
  - ✓ BLUEDIAMOND NC (SAAROAS16B)
  - ✓ BLUEDIAMOND RC (SAAROAS16)
  - ✓ AnyOne Internal (SAAS20)

- 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

System		Profile Diameter	Cuff Height (mm)	Connection	Ref.C
AnyRidge		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
BLUE DIAMOND	NC	Ø3.9	0.5	S	AROCSS3405NT
			1		AROCSS3410NT
			2		AROCSS3420NT
		Ø4.3	0.5		AROCSS3805NT
			1		AROCSS3810NT
			2		AROCSS3820NT
	RC	Ø3.9	0.5	S	AROCSS3405RT
			1		AROCSS3410RT
			2		AROCSS3420RT
		Ø4.3	0.5		AROCSS3805RT
			1		AROCSS3810RT
			2		AROCSS3820RT
		Ø5.5	0.5	L	AROCSL4505RT
			1		AROCSL4510RT
			2		AROCSL4520RT
AnyOne Internal		Ø3.9	0.5	S	AOICSS3405T
			1		AOICSS3410T
			2		AOICSS3420T
		Ø4.3	0.5		AOICSS3805T
			1		AOICSS3810T
			2		AOICSS3820T
		Ø5.5	0.5	L	AOICSL4505T
			1		AOICSL4510T
			2		AOICSL4520T

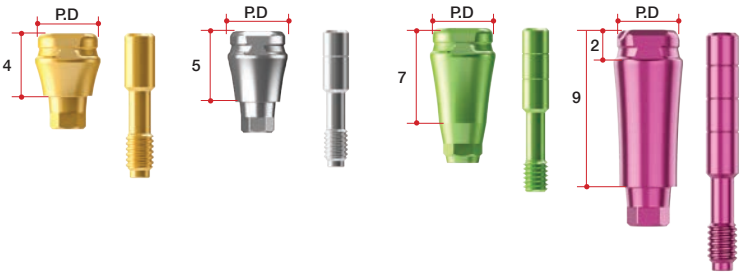


Scan Healing Abutment

- Abutment Screw included.
  - ✓ AnyRidge (ARIHS1804/ARIHS1805/ ARIHS1807/ ARIHS1809)
  - ✓ BLUEDIAMOND NC/ RC (AROHS1604/ AROHS1605/ AROHS1607/ AROHS1609)
  - ✓ AnyOne Internal (AOIHS2004/AOIHS2005/ AOIHS2007/ AOIHS2009)
  - ✓ ST Mini (STMHS1604/ STMHS1605/ STMHS1607/ STMHS1609)
  - ✓ ST Regular (STRHS2004/ STRHS2005/ STRHS2007/ STMHS2009)

- Scannable Healing Abutment.
- For accurate scanning, Scan Healing Abutment must be exposed at least 2.0mm from surgical site.
- Recommend torque : By Hand (5~8Ncm)
- Height 9mm & ST system - FDA : Approved in 2023

* If Scan Healing Abutment is exposed more than 2.5mm, it may unstablize a fixture and results in fixture failure.



Standard

System		Profile Diameter	Height (mm)	Ref.C
AnyRidge		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
BLUE DIAMOND	NC	Ø4.0	4	AROISHN4004T
			5	AROISHN4005T
			7	AROISHN4007T
			9	AROISHN4009T
		Ø5.0	4	AROISHN5004T
			5	AROISHN5005T
			7	AROISHN5007T
			9	AROISHN5009T
	RC	Ø4.0	4	AROISHR4004T
			5	AROISHR4005T
			7	AROISHR4007T
			9	AROISHR4009T
		Ø5.0	4	AROISHR5004T
			5	AROISHR5005T
			7	AROISHR5007T
			9	AROISHR5009T
		Ø6.0	4	AROISHR6004T
			5	AROISHR6005T
			7	AROISHR6007T
			9	AROISHR6009T
		Ø7.0	4	AROISHR7004T
			5	AROISHR7005T
			7	AROISHR7007T
			9	AROISHR7009T

System		Profile Diameter	Height (mm)	Ref.C
AnyOne Internal		Ø4.0	4	AOISH4004T
			5	AOISH4005T
			7	AOISH4007T
			9	AOISH4009T
		Ø4.5	4	AOISH4504T
			5	AOISH4505T
			7	AOISH4507T
			9	AOISH4509T
		Ø5.5	4	AOISH5504T
			5	AOISH5505T
			7	AOISH5507T
			9	AOISH5509T
		Ø6.5	4	AOISH6504T
			5	AOISH6505T
			7	AOISH6507T
			9	AOISH6509T
ST	Mini	Ø4.0	4	STMSH4004T
			5	STMSH4005T
			7	STMSH4007T
			9	STMSH4009T
	Regular	Ø5.0	4	STRSH5004T
			5	STRSH5005T
			7	STRSH5007T
			9	STRSH5009T
		Ø6.0	4	STRSH6004T
			5	STRSH6005T
			7	STRSH6007T
			9	STRSH6009T
		Ø7.0	4	STRSH7004T
			5	STRSH7005T
			7	STRSH7007T
			9	STRSH7009T

Extra

System	Fixture Core Diameter	Profile Diameter	Height (mm)	Ref.C
AnyRidge	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

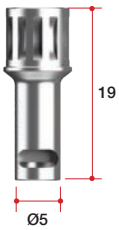
Scan Post

- 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
  * AnyOne Internal Profile Diameter
  - Ø4.0 → Ø4.0
  - Ø4.5 → Ø5.0
  - Ø5.5 → Ø6.0
  - Ø6.5 → Ø7.0
- 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

Profile Diameter	Height (mm)	Ref.C
Ø5	19	SPC16

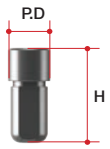


➲ RP Analog Option

RP Analog

- For Chairside/ Labside
- Surpporting Dental CAD
  - 3Shape
  - exocad

System		Profile Diameter	Height (mm)	System
AnyRidge		Ø4.0	9	CANIAR4009
BLUE DIAMOND	NC	Ø3.3	10	AROLAN
	RC	Ø4.1		AROLAR
AnyOne Internal	Only Ø3.5	Ø4.0	9	CAOIAS3509
	-			CAOIAR4009
AnyOne External	S	Ø3.5	9	CEXEAS3509
	R	Ø4.1		CEXEAR4109
	W	Ø5.0		CEXEAW5009
AnyOne Onestage		Ø4.8	9	OSRA18
MiNi		Ø3.0	9	CMIIAN3009
ST	Mini	Ø3.7	9	OSRA3709
	Regular	Ø4.3		OSRA4309
Octa Level	Small	Ø3.8	9	OCTARA4
	Regular	Ø4.8		OCTARA5
	Wide	Ø5.8		OCTARA6
MUA Level (N Type)		Ø4.8	9	MUALA



➲ PMMA Abutment Option (Continued)

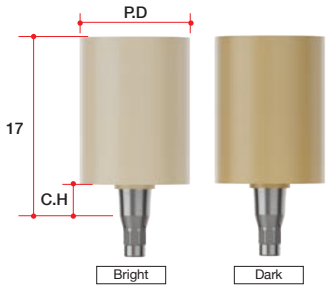
NEW

PMMA Abutment

(Comming soon)

- Abutment Screw included.
  - ✓ AnyRidge (AANMSF)
  - ✓ BLUEDIAMOND NC (AROAS16B)
  - ✓ BLUEDIAMOND RC (AROAS16)
  - ✓ AnyOne Internal (AS20)
  - ✓ ST Mini (OSGSAS3110)

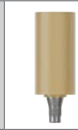
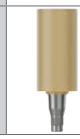
- Pre-milled Abutment
  - Pre-milled part : Implant Connection + Cuff (0.6/ 1.5/ 3.0mm)
- 1 Set consists of 10 Abutments
  - included spare Abutment Screw
- Supporting Dental CAD
  - 3 Shape
  - exocad
- Supporting Milling Machine
  - MegaGen Implant : BX5
  - ARUM DENTISTRY
- Recommend torque
  - 25Ncm : AnyRidge/ BLUEDIAMOND/ AnyOne Internal
  - 20Ncm : ST (Mini)



System		Color	Profile Diameter	Cuff Height (mm)	Length (mm)	Type	Ref.C
AnyRidge		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
BLUE DIAMOND	NC	Bright	Ø8	0.6		Octa	BDPAN0608B.MTN
				1.5			BDPAN1508B.MTN
				3.0			BDPAN3008B.MTN
			Ø12	0.6			BDPAN0612B.MTN
				1.5			BDPAN1512B.MTN
				3.0			BDPAN3012B.MTN
			Ø16	0.6			BDPAN0616B.MTN
				1.5			BDPAN1516B.MTN
				3.0			BDPAN3016B.MTN
		Dark	Ø8	0.6			BDPAN0608D.MTN
				1.5			BDPAN1508D.MTN
				3.0			BDPAN3008D.MTN
			Ø12	0.6			BDPAN0612D.MTN
				1.5			BDPAN1512D.MTN
				3.0			BDPAN3012D.MTN
			Ø16	0.6			BDPAN0616D.MTN
				1.5			BDPAN1516D.MTN
				3.0			BDPAN3016D.MTN
	RC	Bright	Ø8	0.6		Octa	BDPAR0608B.MTN
				1.5			BDPAR1508B.MTN
				3.0			BDPAR3008B.MTN
			Ø12	0.6			BDPAR0612B.MTN
				1.5			BDPAR1512B.MTN
				3.0			BDPAR3012B.MTN
			Ø16	0.6			BDPAR0616B.MTN
				1.5			BDPAR1516B.MTN
				3.0			BDPAR3016B.MTN
		Dark	Ø8	0.6			BDPAR0608D.MTN
				1.5			BDPAR1508D.MTN
				3.0			BDPAR3008D.MTN
			Ø12	0.6			BDPAR0612D.MTN
				1.5			BDPAR1512D.MTN
				3.0			BDPAR3012D.MTN
			Ø16	0.6			BDPAR0616D.MTN
				1.5			BDPAR1516D.MTN
				3.0			BDPAR3016D.MTN

PMMA Abutment Option

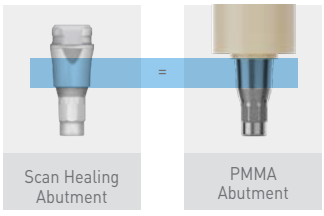
[PMMA Abutment Line-Up]

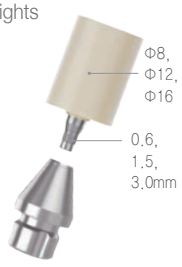
	Bright		
	D8	D12	D16
C0.6			
C1.5			
C3.0			
	Dark		
C0.6			
C1.5			
C3.0			

System		Color	Profile Diameter	Cuff Height (mm)	Length (mm)	Type	Ref.C
AnyOne Internal		Bright	Ø8	0.6	17	Hex	AOPA0608B.MTN
				1.5			AOPA1508B.MTN
				3.0			AOPA3016B.MTN
			Ø12	0.6			AOPA0612B.MTN
				1.5			AOPA1512B.MTN
				3.0			AOPA3012B.MTN
			Ø16	0.6			AOPA0616B.MTN
				1.5			AOPA1516B.MTN
				3.0			AOPA3016B.MTN
		Dark	Ø8	0.6			AOPA0608D.MTN
				1.5			AOPA1508D.MTN
				3.0			AOPA3008D.MTN
			Ø12	0.6			AOPA0612D.MTN
				1.5			AOPA1512D.MTN
				3.0			AOPA3012D.MTN
			Ø16	0.6			AOPA0616D.MTN
				1.5			AOPA1516D.MTN
				3.0			AOPA3016D.MTN
ST	Mini	Bright	Ø8	0.6		Hex	STPAM0608B.MTN
				1.5			STPAM1508B.MTN
				3.0			STPAM3008B.MTN
			Ø12	0.6			STPAM0612B.MTN
				1.5			STPAM1512B.MTN
				3.0			STPAM3012B.MTN
			Ø16	0.6			STPAM0616B.MTN
				1.5			STPAM1516B.MTN
				3.0			STPAM3016B.MTN
		Dark	Ø8	0.6			STPAM0608D.MTN
				1.5			STPAM1508D.MTN
				3.0			STPAM3008D.MTN
			Ø12	0.6			STPAM0612D.MTN
				1.5			STPAM1512D.MTN
				3.0			STPAM3012D.MTN
			Ø16	0.6			STPAM0616D.MTN
				1.5			STPAM1516D.MTN
				3.0			STPAM3016D.MTN

➢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

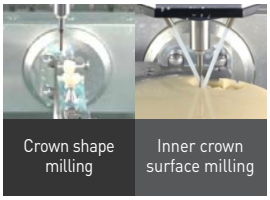
· Various cuff sizes for various gingival heights

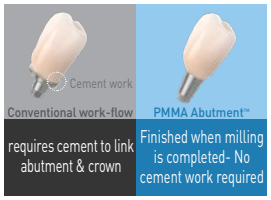




➢Integrated Ti-base & PMMA

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





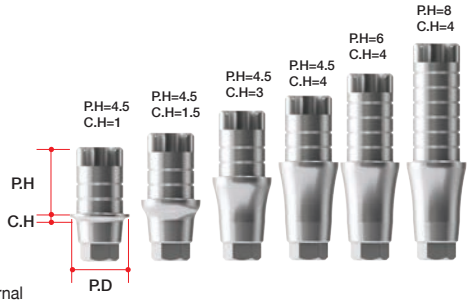
ZrGEN Abutment Option (Continued)

ZrGEN Abutment

- Abutment Screw included.
  - ✓ AnyRidge (AANMSF)
  - ✓ BLUEDIAMOND NC (AROAS16B)
  - ✓ BLUEDIAMOND RC (AROAS16)
  - ✓ AnyOne Internal (AS20)
  - ✓ AnyOne External Small (SCS160)
  - ✓ AnyOne External Regular/ Wide (RCS200)
  - ✓ AnyOne Onestage (EXIMS100)
  - ✓ MiNi (MIAZ1410)
  - ✓ ST Mini (OSGSAS3110)
  - ✓ ST Regular (OSGSAS3210)
  - ✓ 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 : AnyRidge/ BLUEDIAMOND/ AnyOne Internal / AnyOne External (Regular & Wide)/ AnyOne Onestage/ Octa Level
  - 30Ncm : ST (Regular)
  - 25Ncm : AnyOne External (Small)
  - 20Ncm : ST (Mini)
  - 15Ncm : MiNi/ MUA Level



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
		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

System		Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
BLUE DIAMOND	NC	Ø4.0	0.6	4.5	Octa	AROZGN4015.MTN
			1.5			AROZGN4025.MTN
			3.0			AROZGN4035.MTN
			4.0			AROZGN4045.MTN
			0.6	6.0		AROZGN4016.MTN
			1.5			AROZGN4026.MTN
			3.0			AROZGN4036.MTN
			4.0			AROZGN4046.MTN
			0.6	8.0		AROZGN4018.MTN
			1.5			AROZGN4028.MTN
			3.0			AROZGN4038.MTN
			4.0			AROZGN4048.MTN
	RC	Ø4.5	0.6	4.5	Octa	AROZGR4515.MTN
			1.5			AROZGR4525.MTN
			3.0			AROZGR4535.MTN
			4.0			AROZGR4545.MTN
			0.6	6.0		AROZGR4516.MTN
			1.5			AROZGR4526.MTN
			3.0			AROZGR4536.MTN
			4.0			AROZGR4546.MTN
			0.6	8.0		AROZGR4518.MTN
			1.5			AROZGR4528.MTN
			3.0			AROZGR4538.MTN
			4.0			AROZGR4548.MTN

ZrGEN Abutment Option (Continued)

Standard

System	Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
AnyOne Internal	Ø4.0	0.6	4.5	Hex	AAOIPR4015.MTN
			6		AAOIPR4016.MTN
			8		AAOIPR4018.MTN
		1.5	4.5		AAOIPR4025.MTN
			6		AAOIPR4026.MTN
			8		AAOIPR4028.MTN
		3.0	4.5		AAOIPR4035.MTN
			6		AAOIPR4036.MTN
			8		AAOIPR4038.MTN
		4.0	4.5		AAOIPR4045.MTN
			6		AAOIPR4046.MTN
			8		AAOIPR4048.MTN
		0.6	4.5	Non-Hex	AAOIPR4015N.MTN
			6		AAOIPR4016N.MTN
			8		AAOIPR4018N.MTN
		1.5	4.5		AAOIPR4025N.MTN
			6		AAOIPR4026N.MTN
			8		AAOIPR4028N.MTN
		3.0	4.5		AAOIPR4035N.MTN
			6		AAOIPR4036N.MTN
			8		AAOIPR4038N.MTN
		4.0	4.5		AAOIPR4045N.MTN
			6		AAOIPR4046N.MTN
			8		AAOIPR4048N.MTN
	Ø4.5	0.6	4.5	Hex	AAOIPR4515.MTN
			6		AAOIPR4516.MTN
			8		AAOIPR4518.MTN
		1.5	4.5		AAOIPR4525.MTN
			6		AAOIPR4526.MTN
			8		AAOIPR4528.MTN
		3.0	4.5		AAOIPR4535.MTN
			6		AAOIPR4536.MTN
			8		AAOIPR4538.MTN
		4.0	4.5		AAOIPR4545.MTN
			6		AAOIPR4546.MTN
			8		AAOIPR4548.MTN
		0.6	4.5	Non-Hex	AAOIPR4515N.MTN
			6		AAOIPR4516N.MTN
			8		AAOIPR4518N.MTN
		1.5	4.5		AAOIPR4525N.MTN
			6		AAOIPR4526N.MTN
			8		AAOIPR4528N.MTN
		3.0	4.5		AAOIPR4535N.MTN
			6		AAOIPR4536N.MTN
			8		AAOIPR4538N.MTN
		4.0	4.5		AAOIPR4545N.MTN
			6		AAOIPR4546N.MTN
			8		AAOIPR4548N.MTN

System		Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
AnyOne External	S	Ø4.2	0.6	4.5	Hex	AEXEPS4015.MTN
				6		AEXEPS4016.MTN
				8		AEXEPS4018.MTN
			1.5	4.5		AEXEPS4025.MTN
				6		AEXEPS4026.MTN
				8		AEXEPS4028.MTN
			3.0	4.5		AEXEPS4035.MTN
				6		AEXEPS4036.MTN
				8		AEXEPS4038.MTN
			4.0	4.5		AEXEPS4045.MTN
				6		AEXEPS4046.MTN
				8		AEXEPS4048.MTN
		Ø4.5	0.6	4.5		AEXEPS4515.MTN
				6		AEXEPS4516.MTN
				8		AEXEPS4518.MTN
			1.5	4.5		AEXEPS4525.MTN
				6		AEXEPS4526.MTN
				8		AEXEPS4528.MTN
			3.0	4.5		AEXEPS4535.MTN
				6		AEXEPS4536.MTN
				8		AEXEPS4538.MTN
			4.0	4.5		AEXEPS4545.MTN
				6		AEXEPS4546.MTN
				8		AEXEPS4548.MTN
	R	Ø4.5	0.6	4.5		AEXEPR4515.MTN
				6		AEXEPR4516.MTN
				8		AEXEPR4518.MTN
			1.5	4.5		AEXEPR4525.MTN
				6		AEXEPR4526.MTN
				8		AEXEPR4528.MTN
			3.0	4.5		AEXEPR4535.MTN
				6		AEXEPR4536.MTN
				8		AEXEPR4538.MTN
			4.0	4.5		AEXEPR4545.MTN
				6		AEXEPR4546.MTN
				8		AEXEPR4548.MTN
	W	Ø5.5	0.6	4.5		AEXEPW5515.MTN
				6		AEXEPW5516.MTN
				8		AEXEPW5518.MTN
			1.5	4.5		AEXEPW5525.MTN
				6		AEXEPW5526.MTN
				8		AEXEPW5528.MTN
			3.0	4.5		AEXEPW5535.MTN
				6		AEXEPW5536.MTN
				8		AEXEPW5538.MTN
			4.0	4.5		AEXEPW5545.MTN
				6		AEXEPW5546.MTN
				8		AEXEPW5548.MTN
AnyOne Onestage		Ø4.8	0.6	4.5	Octa	AEXIPR5015.MTN
				6		AEXIPR5016.MTN
				8		AEXIPR5018.MTN
			1.5	4.5		AEXIPR5025.MTN
				6		AEXIPR5026.MTN
				8		AEXIPR5028.MTN
			3.0	4.5		AEXIPR5035.MTN
				6		AEXIPR5036.MTN
				8		AEXIPR5038.MTN
			4.0	4.5		AEXIPR5045.MTN
				6		AEXIPR5046.MTN
				8		AEXIPR5048.MTN

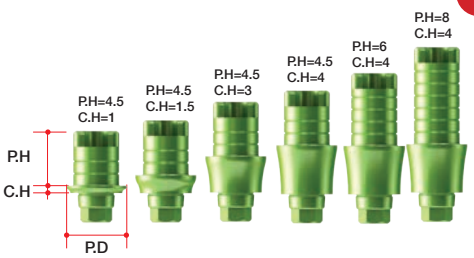
Standard

System		Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
MiNi		Ø3.0	0.6	2.5	Hex	MIPN3013.MTN
				2.5	Non-Hex	MIPN3013N.MTN
ST	Mini	Ø4.0	0.6	4.5	Hex	OSGSPA3111.MTN
				6		OSGSPA3112.MTN
				8		OSGSPA3113.MTN
			1.5	4.5		OSGSPA3121.MTN
				6		OSGSPA3122.MTN
				8		OSGSPA3123.MTN
			3.0	4.5		OSGSPA3131.MTN
				6		OSGSPA3132.MTN
				8		OSGSPA3133.MTN
			4.0	4.5		OSGSPA3141.MTN
				6		OSGSPA3142.MTN
				8		OSGSPA3143.MTN
			0.6	4.5	Non-Hex	OSGSPA3111N.MTN
				6		OSGSPA3112N.MTN
				8		OSGSPA3113N.MTN
			1.5	4.5		OSGSPA3121N.MTN
				6		OSGSPA3122N.MTN
				8		OSGSPA3123N.MTN
			3.0	4.5		OSGSPA3131N.MTN
				6		OSGSPA3132N.MTN
				8		OSGSPA3133N.MTN
			4.0	4.5		OSGSPA3141N.MTN
				6		OSGSPA3142N.MTN
				8		OSGSPA3143N.MTN
	Regular	Ø4.0	0.6	4.5	Hex	OSGSPA3211.MTN
				6		OSGSPA3212.MTN
				8		OSGSPA4018.MTN
			1.5	4.5		OSGSPA4025.MTN
				6		OSGSPA4026.MTN
				8		OSGSPA4028.MTN
			3.0	4.5		OSGSPA4035.MTN
				6		OSGSPA4036.MTN
				8		OSGSPA4038.MTN
			4.0	4.5		OSGSPA4045.MTN
				6		OSGSPA4046.MTN
				8		OSGSPA4048.MTN
			0.6	4.5	Non-Hex	OSGSPA3211N.MTN
				6		OSGSPA3212N.MTN
				8		OSGSPA4018N.MTN
			1.5	4.5		OSGSPA4025N.MTN
				6		OSGSPA4026N.MTN
				8		OSGSPA4028N.MTN
			3.0	4.5		OSGSPA4035N.MTN
				6		OSGSPA4036N.MTN
				8		OSGSPA4038N.MTN
			4.0	4.5		OSGSPA4045N.MTN
				6		OSGSPA4046N.MTN
				8		OSGSPA4048N.MTN
		Ø4.5	0.6	4.5	Hex	OSGSPA4515.MTN
				6		OSGSPA4516.MTN
				8		OSGSPA4518.MTN
			1.5	4.5		OSGSPA3221.MTN
				6		OSGSPA3222.MTN
				8		OSGSPA4528.MTN
			3.0	4.5		OSGSPA4535.MTN
				6		OSGSPA4536.MTN
				8		OSGSPA4538.MTN
			4.0	4.5		OSGSPA4545.MTN
				6		OSGSPA4546.MTN
				8		OSGSPA4548.MTN
			0.6	4.5	Non-Hex	OSGSPA4515N.MTN
				6		OSGSPA4516N.MTN
				8		OSGSPA4518N.MTN
			1.5	4.5		OSGSPA3221N.MTN
				6		OSGSPA3222N.MTN
				8		OSGSPA4528N.MTN
			3.0	4.5		OSGSPA4535N.MTN
				6		OSGSPA4536N.MTN
				8		OSGSPA4538N.MTN
			4.0	4.5		OSGSPA4545N.MTN
				6		OSGSPA4546N.MTN
				8		OSGSPA4548N.MTN

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
MUA Level		Ø5.5	0.8	5	N Type	AMUAPR5515N.MTN
				6		AMUAPR5516N.MTN
				8		AMUAPR5518N.MTN

➲ ZrGEN Abutment Option (Continued)

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

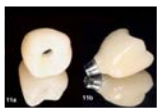
Extra

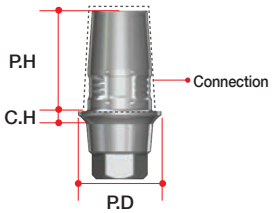
System	Fixture Core Diameter	Profile Diameter	Cuff Height (mm)	Post Height (mm)	Type	Ref.C
AnyRidge	Ø4.0	Ø5.0	0.6	4.5	Hex	ARZXM5015.MTN
				6		ARZXM5016.MTN
				8		ARZXM5018.MTN
			1.5	4.5		ARZXM5025.MTN
				6		ARZXM5026.MTN
				8		ARZXM5028.MTN
			3.0	4.5		ARZXM5035.MTN
				6		ARZXM5036.MTN
				8		ARZXM5038.MTN
			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

➲ ZrGEN Abutment Option

- Abutment Screw included.
  - ✓ AnyRidge (AANMSF)
  - ✓ BLUEDIAMOND NC (AROAS16B)
  - ✓ BLUEDIAMOND RC (AROAS16)
  - ✓ AnyOne Internal (AS20)
  - ✓ ST Mini (OSGSAS3110)
  - ✓ ST Regular (OSGSAS3210)
- 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 : AnyRidge/ BLUEDIAMOND/ AnyOne Internal
  - 30Ncm : ST (Regular)
  - 20Ncm : ST (Mini)





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
BLUE DIAMOND	NC	Ø3.9	0.5		S	AROCSN3405.MTN
			1.0			AROCSN3410.MTN
			2.0			AROCSN3420.MTN
		Ø4.3	0.5			AROCSN3805.MTN
			1.0			AROCSN3810.MTN
			2.0			AROCSN3820.MTN
	RC	Ø3.9	0.5		S	AROCSR3405.MTN
			1.0			AROCSR3410.MTN
			2.0			AROCSR3420.MTN
		Ø4.3	0.5			AROCSR3805.MTN
			1.0			AROCSR3810.MTN
			2.0			AROCSR3820.MTN
		Ø5.5	0.5		L	AROCLR4505.MTN
			1.0			AROCLR4510.MTN
			2.0			AROCLR4520.MTN
AnyOne Internal		Ø3.9	0.5		S	AOCS3405.MTN
			1			AOCS3410.MTN
			2			AOCS3420.MTN
		Ø4.3	0.5			AOCS3805.MTN
			1			AOCS3810.MTN
			2			AOCS3820.MTN
		Ø5.5	0.5		L	AOCL4505.MTN
			1			AOCL4510.MTN
			2			AOCL4520.MTN
ST	Mini	Ø3.9	0.5		S	STCSS3405.MTN
			1			STCSS3410.MTN
			2			STCSS3420.MTN
		Ø4.3	0.5			STCSS3805.MTN
			1			STCSS3810.MTN
			2			STCSS3820.MTN
	Regular	Ø3.9	0.5		S	STCSR3405.MTN
			1			STCSR3410.MTN
			2			STCSR3420.MTN
		Ø4.3	0.5			STCSR3805.MTN
			1			STCSR3810.MTN
			2			STCSR3820.MTN
		Ø5.5	0.5		L	STCLR4505.MTN
			1			STCLR4510.MTN
			2			STCLR4520.MTN

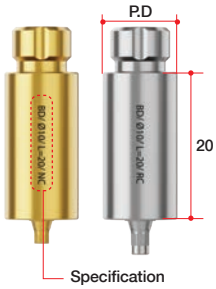
TiGEN Abutment Option (Continued)

TiGEN Abutment

- Abutment Screw included.
  - ✓ AnyRidge (AANMSF)
  - ✓ BLUEDIAMOND NC (AROAS16B)
  - ✓ BLUEDIAMOND RC (AROAS16)
  - ✓ AnyOne Internal (AS20)
  - ✓ AnyOne External Small (SCS160)
  - ✓ AnyOne External Regular/ Wide (RCS200)
  - ✓ AnyOne Onestage (EXIMS100)
  - ✓ MiNi (MIAS14)
  - ✓ ST Mini (OSGSAS3110)
  - ✓ ST Regular (OSGSAS3210)
  - ✓ 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 : AnyRidge/ BLUEDIAMOND/ AnyOne Internal/ AnyOne External (Regular & Wide)/ AnyOne Onestage/ Octa Level
  - 30Ncm : ST (Regular)
  - 25Ncm : AnyOne External (Small)
  - 20Ncm : ST (Mini)
  - 15Ncm : MiNi
- FDA : Approved in 2023

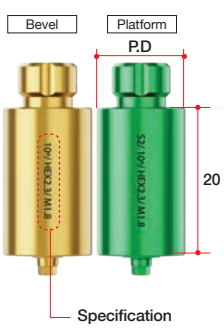
Standard/ MegaGen type

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
BLUE DIAMOND	NC	Gold	Ø10		Octa	AROTGN1020.MTN
			Ø12		Octa	AROTGN1220.MTN
	RC	Silver	Ø10		Octa	AROTGR1020.MTN
			Ø12		Octa	AROTGR1220.MTN
AnyOne Internal		Pink	Ø10		Hex	AOTR1020.MTN
					Non-Hex	AOTR1020N.MTN
			Ø12		Hex	AOTR1220.MTN
					Non-Hex	AOTR1220N.MTN
AnyOne External	S	Silver	Ø10		Hex	AETS1020.MTN
					Non-Hex	AETS1020N.MTN
			Ø12		Hex	AETS1220.MTN
					Non-Hex	AETS1220N.MTN
	R		Ø10		Hex	AETR1020.MTN
					Non-Hex	AETR1020N.MTN
			Ø12		Hex	AETR1220.MTN
					Non-Hex	AETR1220N.MTN
	W		Ø10		Hex	AETW1020.MTN
					Non-Hex	AETW1020N.MTN
			Ø12		Hex	AETW1220.MTN
					Non-Hex	AETW1220N.MTN
AnyOne Onestage		Silver	Ø10		Octa	AOOTR1020.MTN
					Non-Octa	AOOTR1020N.MTN
			Ø12		Octa	AOOTR1220.MTN
					Non-Octa	AOOTR1220N.MTN
MiNi		Silver	Ø10		Hex	MITN1020.MTN
					Non-Hex	MITN1020N.MTN
ST	Mini	Sky blue	Ø10		Hex	OSTG3112.MTN
					Non-Hex	OSTG3112N.MTN
			Ø12		Hex	OSTG3111.MTN
					Non-Hex	OSTG3111N.MTN
	Regular		Ø10		Hex	OSTG3212.MTN
					Non-Hex	OSTG3212N.MTN
			Ø12		Hex	OSTG3211.MTN
					Non-Hex	OSTG3211N.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



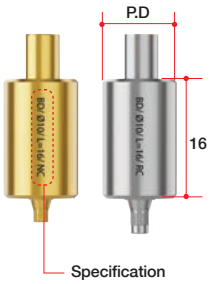
TiGEN Abutment Option (Continued)

NEW

- Abutment Screw included.
  - ✓ AnyRidge (AANMSF)
  - ✓ BLUEDIAMOND NC (AROAS16B)
  - ✓ BLUEDIAMOND RC (AROAS16)
  - ✓ AnyOne Internal (AS20)
  - ✓ AnyOne External Small (SCS160)
  - ✓ AnyOne External Regular/ Wide (RCS200)
  - ✓ AnyOne Onestage (EXIMS100)
  - ✓ MiNi (MIAS14)
  - ✓ ST Mini (OSGSAS3110)
  - ✓ ST Regular (OSGSAS3210)
  - ✓ Octa Level (IRCS200)
- Pre-milled Abutment
- 1 set consists of 10 Abutments
  - included spare Abutment Screw
- Supporting DentalCAD
  - 3 Shape
  - exocad
- Recommend torque
  - 35Ncm : AnyRidge/ BLUEDIAMOND/ AnyOne Internal/ AnyOne External (Regular& Wide)/ AnyOne Onestage/ Octa Level
  - 30Ncm : ST (Regular)
  - 25Ncm : AnyOne External (Small)
  - 20Ncm : ST (Mini)
  - 15Ncm : MiNi
- FDA : Approved in 2023

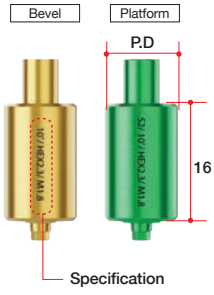
Standard/ NT type

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
BLUE DIAMOND	NC	Gold	Ø10		Octa	AROTGNN1016.MTN
			Ø12		Octa	AROTGNN1216.MTN
	RC	Silver	Ø10		Octa	AROTGRN1016.MTN
			Ø12		Octa	AROTGRN1216.MTN
AnyOne Internal		Pink	Ø10		Hex	AOTRN1016.MTN
					Non-Hex	AOTRN1016N.MTN
			Ø12		Hex	AOTRN1216.MTN
					Non-Hex	AOTRN1216N.MTN
AnyOne External	S	Silver	Ø10		Hex	AETSN1016.MTN
					Non-Hex	AETSN1016N.MTN
			Ø12		Hex	AETSN1216.MTN
					Non-Hex	AETSN1216N.MTN
	R		Ø10		Hex	AETRN1016.MTN
					Non-Hex	AETRN1016N.MTN
			Ø12		Hex	AETRN1216.MTN
					Non-Hex	AETRN1216N.MTN
	W		Ø10		Hex	AETWN1016.MTN
					Non-Hex	AETWN1016N.MTN
			Ø12		Hex	AETWN1216.MTN
					Non-Hex	AETWN1216N.MTN
AnyOne Onestage		Silver	Ø10		Octa	AOOTRN1016.MTN
					Non-Octa	AOOTRN1016N.MTN
			Ø12		Octa	AOOTRN1216.MTN
					Non-Octa	AOOTRN1216N.MTN
MiNi		Silver	Ø10		Hex	MITNN1016.MTN
					Non-Hex	MITNN1016N.MTN
ST	Mini	Sky blue	Ø10		Hex	OSTGN3112.MTN
					Non-Hex	OSTGN3112N.MTN
			Ø12		Hex	OSTGN3111.MTN
					Non-Hex	OSTGN3111N.MTN
	Regular		Ø10		Hex	OSTGN3212.MTN
					Non-Hex	OSTGN3212N.MTN
			Ø12		Hex	OSTGN3211.MTN
					Non-Hex	OSTGN3211N.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



NEW

- Abutment Screw included.
  - ✓ AnyRidge (AANMSF)
  - ✓ BLUEDIAMOND NC (AROAS16B)
  - ✓ BLUEDIAMOND RC (AROAS16)
  - ✓ AnyOne Internal (AS20)
  - ✓ AnyOne External Small (SCS160)
  - ✓ AnyOne External Regular/ Wide (RCS200)
  - ✓ AnyOne Onestage (EXIMS100)
  - ✓ MiNi (MIAS14)
  - ✓ ST Mini (OSGSAS3110)
  - ✓ ST Regular (OSGSAS3210)
  - ✓ Octa Level (IRCS200)
- Pre-milled Abutment
- 1 set consists of 10 Abutments
  - included spare Abutment Screw
- Supporting DentalCAD
  - 3 Shape
  - exocad
- Recommend torque
  - 35Ncm : AnyRidge/ BLUEDIAMOND/ AnyOne Internal/ AnyOne External (Regular & Wide)/ AnyOne Onestage/ Octa Level
  - 30Ncm : ST (Regular)
  - 25Ncm : AnyOne External (Small)
  - 20Ncm : ST (Mini)
  - 15Ncm : MiNi
- FDA : Approved in 2023

Standard/ Medentika type

System		Color	Profile Diameter	Height (mm)	Type	Ref.C
AnyRidge		Gold	Ø12	14	Hex	ARTRM1214.MTN
					Non-Hex	ARTRM1214N.MTN
BLUE DIAMOND	NC	Gold			Octa	AROTGNM1214.MTN
	RC	Silver			Octa	AROTGRM1214.MTN
AnyOne Internal		Pink			Hex	AOTRM1214.MTN
					Non-Hex	AOTRM1214N.MTN
AnyOne External	S	Silver			Hex	AETSM1214.MTN
					Non-Hex	AETSM1214N.MTN
	R				Hex	AETRM1214.MTN
					Non-Hex	AETRM1214N.MTN
	W				Hex	AETWM1214.MTN
					Non-Hex	AETWM1214N.MTN
AnyOne Onestage		Silver			Octa	AOOTRM1214.MTN
					Non-Octa	AOOTRM1214N.MTN
MiNi		Silver			Hex	MITNM1214.MTN
					Non-Hex	MITNM1214N.MTN
ST	Mini	Sky blue			Hex	OSTGM3111.MTN
					Non-Hex	OSTGM3111N.MTN
	Regular				Hex	OSTGM3211.MTN
					Non-Hex	OSTGM3211N.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

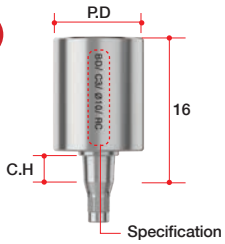
NEW

- Abutment Screw included.
  - ✓ AnyRidge (AANMSF)
  - ✓ BLUEDIAMOND NC (AROAS16B
  - ✓ BLUEDIAMOND RC (AROAS16)
  - ✓ AnyOne Internal (AS20)
  - ✓ ST Mini (OSGSAS3110)
  - ✓ ST Regular (OSGSAS3210)

- 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 : AnyRidge/ BLUEDIAMOND/ AnyOne Internal
  - 30Ncm : ST (Regular)
  - 20Ncm : ST (Mini)
- FDA : Approved in 2023
- CE : 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
BLUE DIAMOND	NC	Gold	Ø8	0.6		Octa	BDTGNR0608.MTN
				1.5			BDTGNR1508.MTN
				3.0			BDTGNR3008.MTN
			Ø10	0.6			BDTGNR0610.MTN
				1.5			BDTGNR1510.MTN
				3.0			BDTGNR3010.MTN
			Ø12	0.6			BDTGNR0612.MTN
				1.5			BDTGNR1512.MTN
				3.0			BDTGNR3012.MTN
	RC	Silver	Ø8	0.6			BDTGRR0608.MTN
				1.5			BDTGRR1508.MTN
				3.0			BDTGRR3008.MTN
			Ø10	0.6			BDTGRR0610.MTN
				1.5			BDTGRR1510.MTN
				3.0			BDTGRR3010.MTN
			Ø12	0.6			BDTGRR0612.MTN
				1.5			BDTGRR1512.MTN
				3.0			BDTGRR3012.MTN
AnyOne Internal		Pink	Ø8	0.6		Hex	AOTRR0608.MTN
				1.5			AOTRR1508.MTN
				3.0			AOTRR3008.MTN
			Ø10	0.6			AOTRR0610.MTN
				1.5			AOTRR1510.MTN
				3.0			AOTRR3010.MTN
			Ø12	0.6			AOTRR0612.MTN
				1.5			AOTRR1512.MTN
				3.0			AOTRR3012.MTN



CUFF type

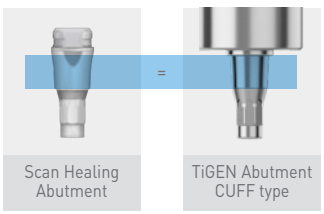
System		Color	Profile Diameter	Cuff Height (mm)	Height (mm)	Type	Ref.C
ST	Mini	Sky blue	Ø8	0.6	16	Hex	OSTGMR0608.MTN
				1.5			OSTGMR1508.MTN
				3.0			OSTGMR3008.MTN
			Ø10	0.6			OSTGMR0610.MTN
				1.5			OSTGMR1510.MTN
				3.0			OSTGMR3010.MTN
			Ø12	0.6			OSTGMR0612.MTN
				1.5			OSTGMR1512.MTN
				3.0			OSTGMR3012.MTN
	Regular		Ø8	0.6			OSTGRR0608.MTN
				1.5			OSTGRR1508.MTN
				3.0			OSTGRR3008.MTN
			Ø10	0.6			OSTGRR0610.MTN
				1.5			OSTGRR1510.MTN
				3.0			OSTGRR3010.MTN
			Ø12	0.6			OSTGRR0612.MTN
				1.5			OSTGRR1512.MTN
				3.0			OSTGRR3012.MTN

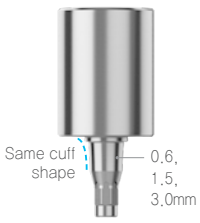
[TiGEN Abutment CUFF type Line-Up]

	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

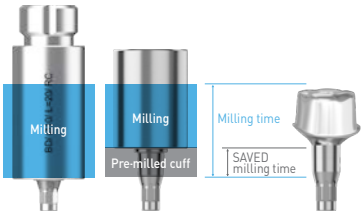




➢ **Pre-milled cuff reduces milling time + precision is increased with reverse jig milling**

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

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



NEW

Reverse Jig Connector Option

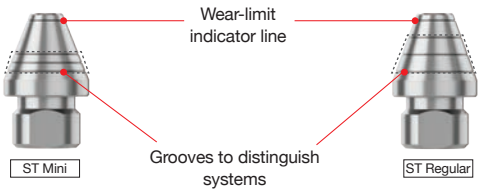
Reverse Jig Connector

- Milling screws exclusively for Reverse Jig Connector are included
  - ✓ AnyRidge (ARRJMS)
  - ✓ BLUEDIAMOND NC/ RC (BDRJMS)
  - ✓ AnyOne Internal (AORJMS)
  - ✓ ST Mini (STRJMSM)
  - ✓ ST Regular (STRJMSR)

- Do not use Non-Engage(Hex/ Octa)
- System can be checked by the number of Groove
  - AnyRidge → Groove 1ea
  - BLUEDIAMOND NC → Groove : narrow 2ea
  - BLUEDIAMOND RC → Groove : wide 2ea
  - AnyOne Internal → Groove : 0ea
  - ST Mini → Groove : narrow 3ea
  - ST Regular → Groove : wide 3ea
- 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
BLUE DIAMOND	NC	Octa	BDTGRJN00P
	RC		BDTGRJR00P
AnyOne Internal		Hex	AOTGRJ00P
ST	Mini	Hex	STTGRJM00P
	Regular		STTGRJR00P

*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