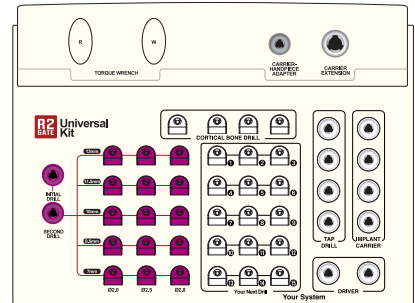
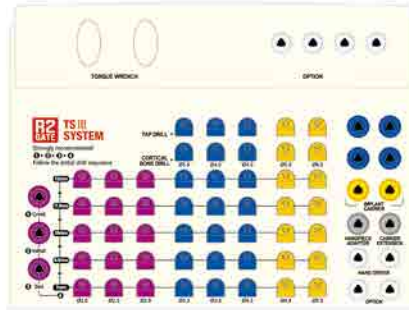
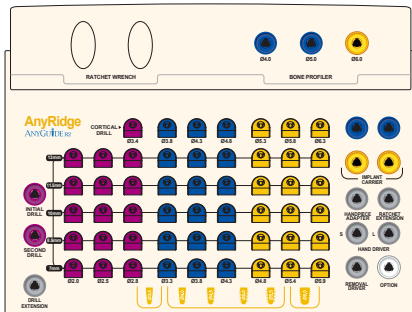


R2GATE[®] : Surgical KIT

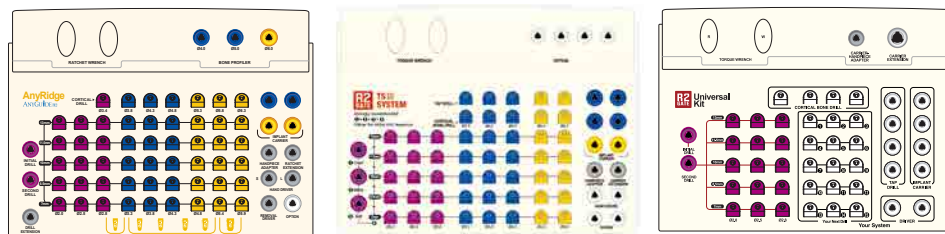
by MEGA^IGEN

Turning imagination
into reality
since 2012





R2GATE Surgical KIT



004 **R2GATE FULL Surgical KIT**

004 **I. AnyRidge System**

006 **II. AnyOne System**

014 **R2GATE Standard KIT**

014 **I. TSIII System (Osstem co.)**

016 **II. SuperLine System (Dentium co.)**

018 **III. UFII System (DIO co.)**

020 **IV. ISII System (Neo Biotech co.)**

028 **R2GATE Universal KIT**

032 **1. AnyRidge Octa 1**

032 **2. Straumann**

034 **3. Nobel Biocare**

034 **4. Astra**

035 **5. Biomet 3i**

035 **6. TSIII**

036 **7. SuperLine**

036 **8. ISII**

037 **9. UFII**

038 **10. Final Drill Option**

040 **R2GATE Narrow KIT**

042 **R2GATE Anchor KIT**

R2GATE® Full Surgical KIT


I. R2GATE Full Surgical Kit for AnyRidge System

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

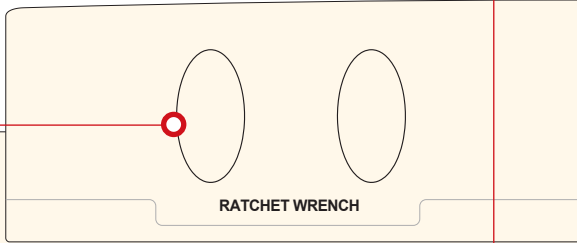
Ref.C

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

AnyRidge ANYGUIDE R2

CORTICAL DRILL

	Ø3.4	Ø3.8	Ø4.3
13mm			
11.5mm			
10mm			
8.5mm			
7mm			
Ø2.0	Ø2.5	Ø2.8	Ø3.3
Ø3.5	Ø4.0	Ø4.5	

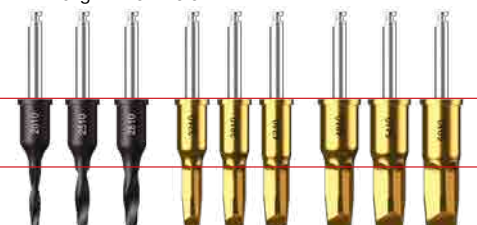
INITIAL DRILL

SECOND DRILL

DRILL EXTENSION

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



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)



Ø4.0 Ø5.0 Ø6.0

BONE PROFILER

Ø4.8 Ø5.3 Ø5.8 Ø6.3

IMPLANT CARRIER

HANDPIECE ADAPTER RATCHET EXTENSION

S L

HAND DRIVER

Ø4.3 Ø4.8 Ø5.4 Ø5.9

REMOVAL DRIVER OPTION

Ø5.0 Ø5.5 Ø6.0



Hand Driver

: 1.2 hex driver (Short)
: 1.2 hex driver (Long)
: Abutment Remover Driver



Carrier-Handpiece Adapter



Carrier Extension



II. R2GATE Full Surgical Kit for AnyOne System

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

Ref.C
KAGIN3001



Initial Drill

Initial Drill



Second Drill

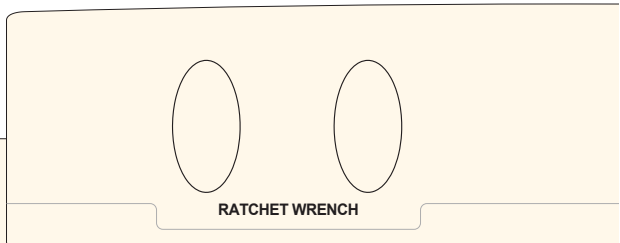


Drilling to make the initial drill path

Cortical Bone Drill



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



AnyOne ANYGUIDE R2

CORTICAL DRILL

	Ø3.5	Ø4.0			
13mm					
11.5mm					
10mm					
8.5mm					
7mm					
	Ø2.0	Ø2.5	Ø2.8	Ø3.3	Ø3.6

INITIAL DRILL (red circle)
SECOND DRILL (purple circle)
DRILL EXTENSION (grey circle)

Ø3.5 (red dashed box)
Ø4.0 (red dashed box)

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



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]

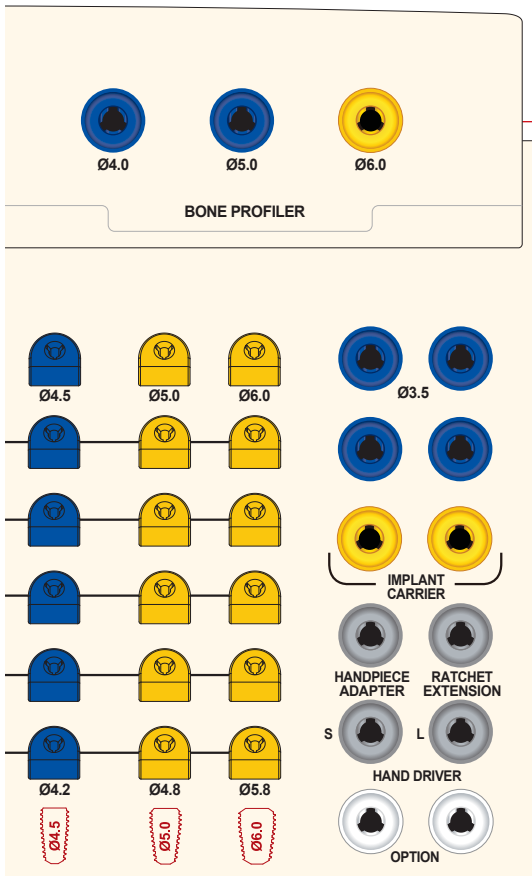
Implant Carrier

: 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



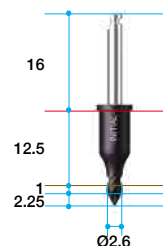
➔ Components for R2GATE Full Surgical Kit (Continued)

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

Initial Drill

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

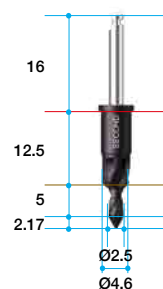
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.6	Ø5.0	1.0	R2ID2601



Second Drill

- This unique step-drill(from Ø2.0 to Ø4.6) is used to flare out the upper cortical bone of the osteotomy.
- 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.

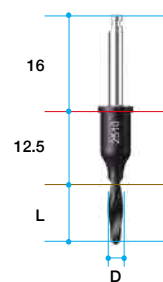
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.5	Ø5.0	5.0	R2SD2505



Stopper Drill

- Universal drills consist of Ø2.0, Ø2.5, Ø2.8 diameter to enlarge the osteotomy gradually.
- The length of drill are designed as 7.0, 8.5, 10, 11.5, 13mm for most common length of implant system.
- Recommended drilling speed range is 500 ~ 800 RPM with copious irrigation.

Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.0	Ø5.0	6.5	AGSD2007
		8.0	AGSD2008
		9.5	AGSD2010
		11.0	AGSD2011
		12.5	AGSD2013
Ø2.5	Ø5.0	6.5	AGSD2507
		8.0	AGSD2508
		9.5	AGSD2510
		11.0	AGSD2511
		12.5	AGSD2513
Ø2.8	Ø5.0	6.5	AGSD2807
		8.0	AGSD2808
		9.5	AGSD2810
		11.0	AGSD2811
		12.5	AGSD2813



Bone Profiler

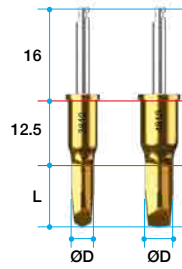
- Recommended drilling speed is 300 ~ 800 RPM.

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



Stopper Drill[AR]

• Recommended drilling speed is 300 ~ 800 RPM.

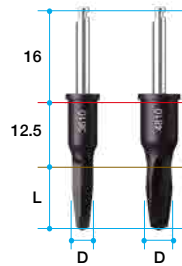


Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.3	Ø5.0	6.5	ARSD3307
		8.0	ARSD3308
		9.5	ARSD3310
		11.0	ARSD3311
		12.5	ARSD3313
Ø3.8	Ø5.0	6.5	ARSD3807
		8.0	ARSD3808
		9.5	ARSD3810
		11.0	ARSD3811
Ø4.3	Ø5.0	12.5	ARSD3813
		6.5	ARSD4307
		8.0	ARSD4308
		9.5	ARSD4310
	Ø5.0	11.0	ARSD4311
		12.5	ARSD4313

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	Ø6.5	6.5	ARSD5407
		8.0	ARSD5408
		9.5	ARSD5410
		11.0	ARSD5411
Ø5.9	Ø6.5	12.5	ARSD5413
		6.5	ARSD5908
		8.0	ARSD5907
		9.5	ARSD5910
	Ø6.5	11.0	ARSD5911
		12.5	ARSD5913

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	AOSD3310
		11.0	AOSD3311
		12.5	AOSD3313
Ø3.6	Ø5.0	7.0	AOSD3607
		8.0	AOSD3608
		9.5	AOSD3610
		11.0	AOSD3611
Ø4.2	Ø5.0	12.5	AOSD3613
		7.0	AOSD4207
		8.0	AOSD4208
		9.5	AOSD4210
	Ø5.0	11.0	AOSD4211
		12.5	AOSD4213

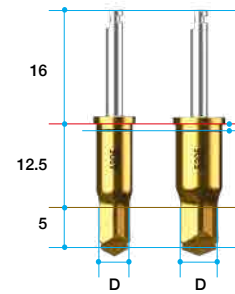
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø4.8	Ø6.5	7.0	AOSD4807
		8.0	AOSD4808
		9.5	AOSD4810
		11.0	AOSD4811
		12.5	AOSD4813
Ø5.8	Ø6.5	7.0	AOSD5807
		8.0	AOSD5808
		9.5	AOSD5810
		11.0	AOSD5811
	Ø6.5	12.5	AOSD5813

➔ Components for R2GATE Full Surgical Kit (Continued)

Cortical Bone Drill[AR]

- Recommended drilling speed : 300 ~ 800 RPM

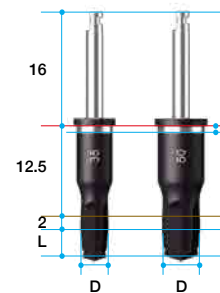
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.4	Ø5.0	5.0	R2CD3405
Ø3.8			R2CD3805
Ø4.3			R2CD4305
Ø4.8			R2CD4805
Ø5.3	Ø6.5		R2CD5305
Ø5.8			R2CD5805
Ø6.3			R2CD6305



Cortical Bone Drill[AO]

- Recommended drilling speed : 300 ~ 800 RPM

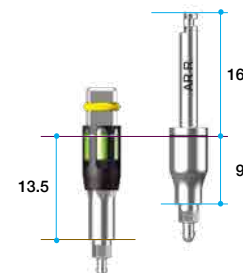
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	6.0	AODD39
Ø4.3			AODD43
Ø4.8			AODD48
Ø5.3	Ø6.5	5.5	AODD53
Ø6.3			AODD63



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 enlargement of osteotomy.
- Recommended insertion torque and speed is 45 ~ 50Ncm, under 40 RPM.

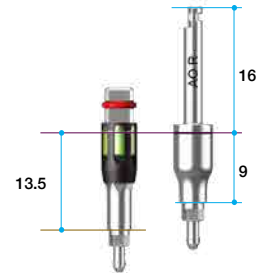
Connection	Guide Diameter	Type	Ref.C
2.3 Hex	Ø5.0	Ratchet	ICRH2324
	Ø6.5		ICWH2324
	Ø5.0	Handpiece	ICRH2324H
	Ø6.5		ICWH2324H



Implant Carrier[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 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
2.3 Hex	Ø5.0	Ratchet	ICRH2518
			ICRH2523
	Ø6.5	Handpiece	ICWH2523
	Ø5.0		ICRH2518H
Ø6.5	ICRH2523H		
			ICWH2523H



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.

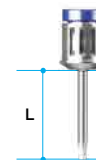
Ref.C
MDE150



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

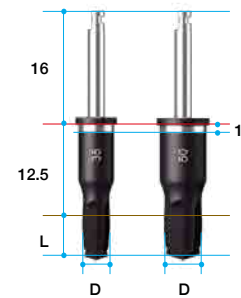


➔ System Options for the AnyOne External

Cortical Bone Drill

- Recommended drilling speed: 300~800 rpm

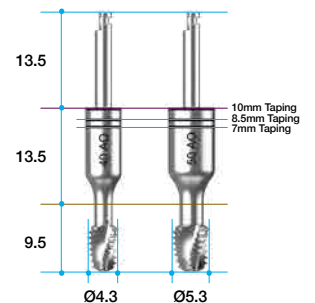
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	6.0	AODD39
Ø4.3			AODD43
Ø4.8			AODD48
Ø5.3	Ø6.5	5.5	AODD53
Ø6.3			AODD63



Tap Drill

- The purpose of tap drills in the R2GATE 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.

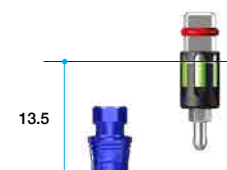
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	9.5	R2TD35AO
Ø4.3			R2TD40AO
Ø4.8			R2TD45AO
Ø5.3	Ø6.5		R2TD50AO
Ø6.3			R2TD60AO



Implant Carrier

- To pick up the fixture from the ampule and insert it to the osseotomy. 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.

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



R2GATE® Standard KIT

I. R2GATE Standard Kit for TSIII System (Osstem co.)

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

Ref.C

KAGTS3000



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

R2GATE TS III SYSTEM

Strongly recommended!
1 ▶ 2 ▶ 3 ▶ 4
 Follow the initial drill sequence

TAP DRILL ▶

CORTICAL BONE DRILL ▶ Ø3.5 Ø4.0

13mm
11.5mm
10mm
8.5mm
7mm

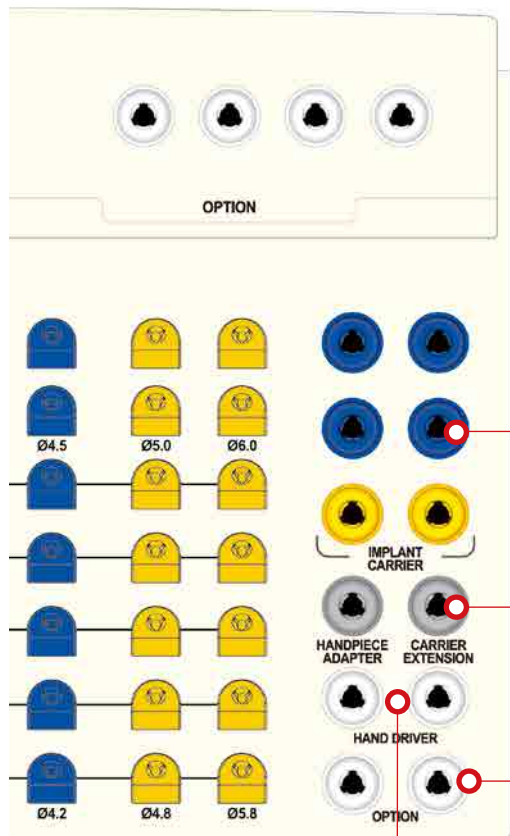
1 Crest
2 Initial
3 2nd
4

Ø2.0 Ø2.5 Ø2.8 Ø3.3 Ø3.6

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




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. R2GATE Standard Kit for SuperLine System (Dentium co.)

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

Ref.C
KAGSL3000



Initial Drill

Initial Drill




Second Drill



Drilling to make the initial drill path

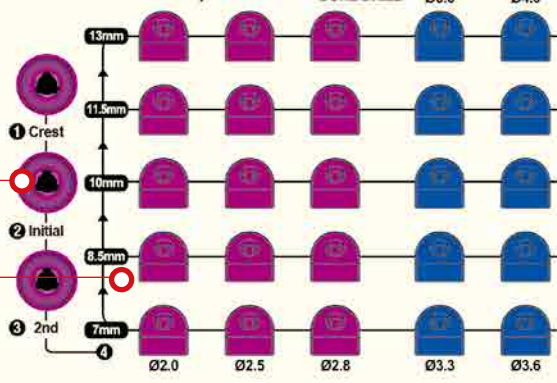
Cortical Bone Drill



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

R2 GATE SuperLine SYSTEM

Strongly recommended!
① ▶ ② ▶ ③ ▶ ④
Follow the initial drill sequence



TAP DRILL ▶

CORTICAL BONE DRILL ▶

Ø3.5 Ø4.0

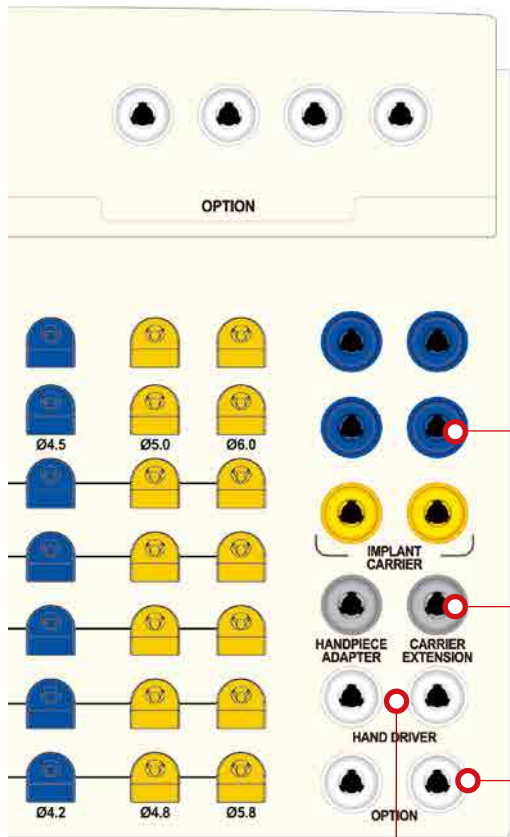
Guide Stop Drill

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



Guide length : 13.5mm

Drilling length : 7.0 ~ 13.0mm



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. R2GATE Standard Kit for UFI System (DIO co.)

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

Ref.C

KAGUF3000



Initial Drill

Initial Drill




Second Drill



Drilling to make the initial drill path

Cortical Bone Drill



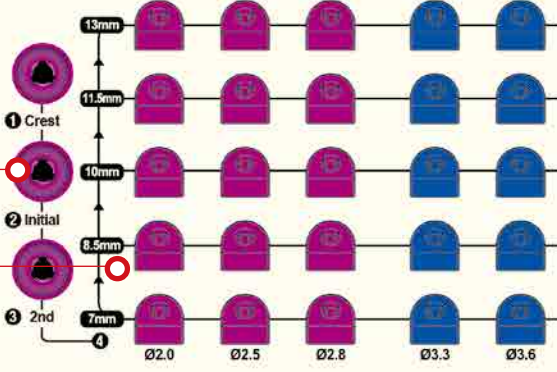
In type I or II bone, crestal bone is partly reduced to lower the pressure against the fixture during placement.

R2 GATE UF II SYSTEM

Strongly recommended!
1 → **2** → **3** → **4**
 Follow the initial drill sequence

TAP DRILL →

CORTICAL BONE DRILL → Ø3.5 Ø4.0

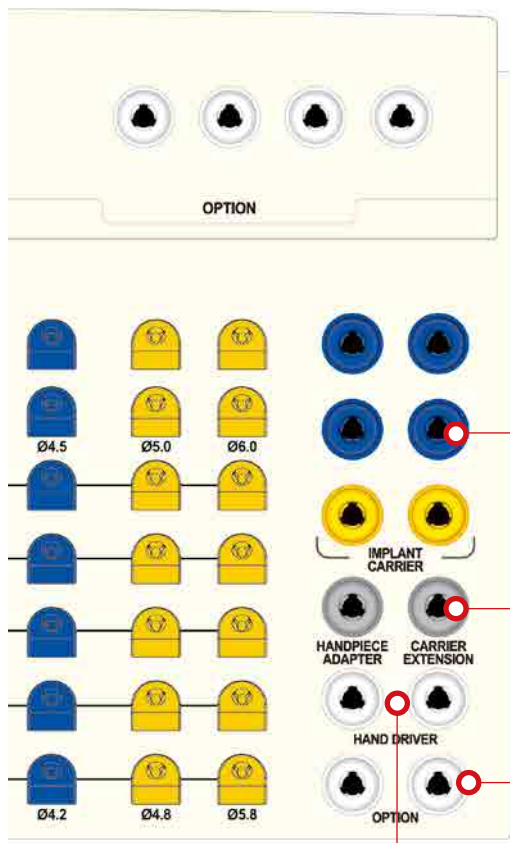


Guide Stop Drill

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



Guide length : 13.5mm
 Drilling length : 7.0 ~ 13.0mm



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. R2GATE Standard Kit for ISII System (Neo Biotech co.)

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

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

Initial Drill

Second Drill

Drilling to make the initial drill path

R2 GATE ISII SYSTEM

Strongly recommended!
1 → **2** → **3** → **4**
 Follow the initial drill sequence

TAP DRILL

CORTICAL BONE DRILL

Ø3.5 Ø4.0

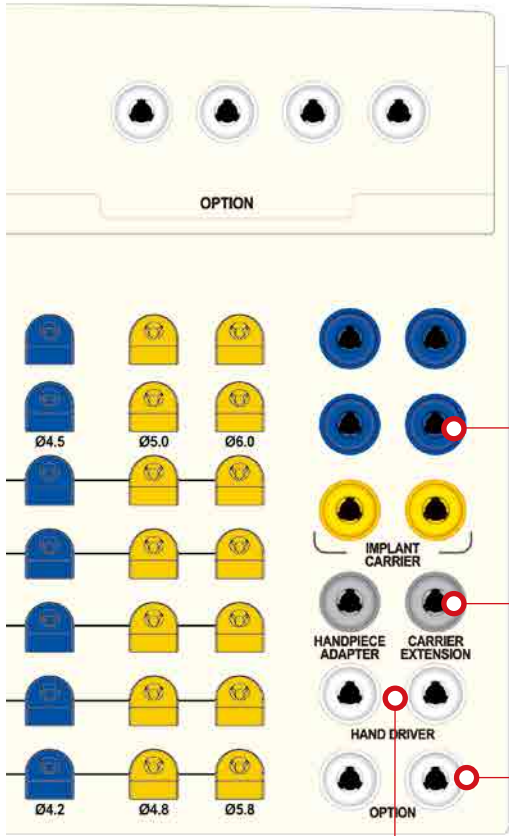
Ø2.0 Ø2.5 Ø2.8 Ø3.3 Ø3.6

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




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



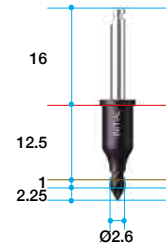
➔ Components for R2GATE Standard Kit (Continued)

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

Initial Drill

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

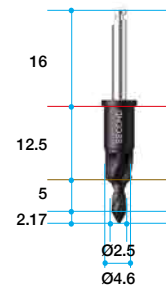
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.6	Ø5.0	1.0	R2ID2601



Second Drill

- This unique step-drill(from Ø2.0 to Ø4.6) is used to flare out the upper cortical bone of the osteotomy.
- 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 Ø2.0, Ø2.5, Ø2.8 diameter to enlarge the osteotomy gradually.
- The length of drill are designed as 7.0, 8.5, 10, 11.5, 13mm for most common length of implant system.
- Recommended drilling speed range is 500 ~ 800 RPM with copious irrigation.



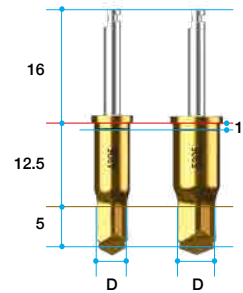
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.0	Ø5.0	6.5	R2SD2007
		8.0	R2SD2008
		9.5	R2SD2010
		11.0	R2SD2011
		12.5	R2SD2013
Ø2.5	Ø5.0	6.5	R2SD2507
		8.0	R2SD2508
		9.5	R2SD2510
		11.0	R2SD2511
		12.5	R2SD2513
Ø2.8	Ø5.0	6.5	R2SD2807
		8.0	R2SD2808
		9.5	R2SD2810
		11.0	R2SD2811
		12.5	R2SD2813
Ø3.3	Ø5.0	7.0	AOSD3307
		8.0	AOSD3308
		9.5	AOSD3310
		11.0	AOSD3311
		12.5	AOSD3313
Ø3.6	Ø5.0	7.0	AOSD3607
		8.0	AOSD3608
		9.5	AOSD3610
		11.0	AOSD3611
		12.5	AOSD3613
Ø4.2	Ø5.0	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
Ø5.8	Ø6.5	12.5	AOSD4813
		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



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



➔ Components for R2GATE 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

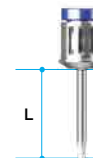


Hand Driver (1.2 Hex)

- 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.

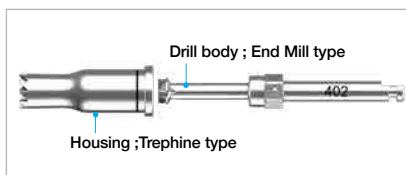
Length(mm)	Type	Ref.C
5.0	*Ultra-short	TCMHDU1200
10	Short	TCMHDS1200
15	Long	TCMHDL1200
20	*Extra-long	TCMHDE1200

(*) Separate sales item.

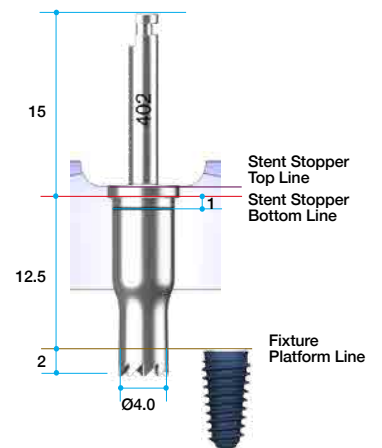


Narrow Crest Drill

- 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



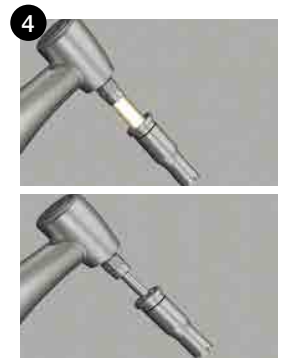
1 Set the site by drilling counter-clockwisely with low speed ($\leq 100\text{rpm}$)



2 Start drilling clockwise (400~600rpm)



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



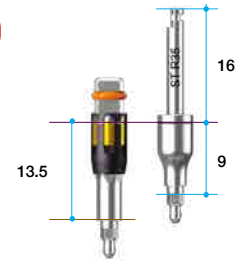
4 Disassemble body and housing after drilling to remove bone chip. Clean and sterilize after every usage.

➔ 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 osseotomy. 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
2.1 Hex	Ø5.0	Ratchet	ICRH2127
2.5 Hex			ICRH2523O
2.1 Hex		Handpiece	ICRH2127H
2.5 Hex			ICRH2523HO

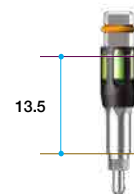


➔ Components for R2 Super Line Standard Kit

Implant Carrier

- To pick up the fixture from the ampule and insert it to the osseotomy. 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	ICRH2523SL
	Ø6.5		ICWH2523SL

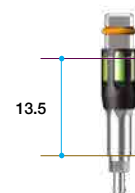


➔ Components for R2 UFII Standard Kit

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 manually.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

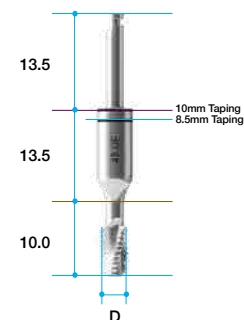
Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2523UF
	Ø6.5		ICWH2523UF



Tap Drill [Optional]

- The purpose of tap 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 tap 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	R2TD50UF		
	Ø5.5	R2TD55UF		

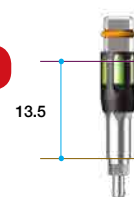


➔ Components for R2 ISII Standard Kit

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 manually.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

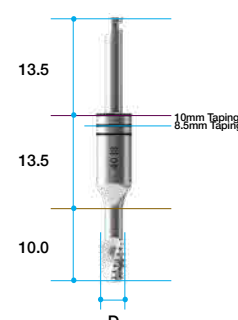
Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2518IS
			ICRH2523IS
	Ø6.5		ICWH2523IS



Tap Drill [Optional]

- The purpose of tap 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 tap 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	R2TD50IS		



R2GATE Universal Kit

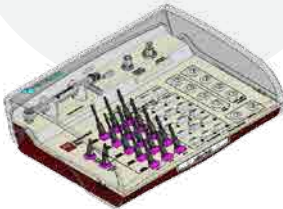
Maximize the cost-effectiveness & efficiency.

Ref.C
KAGUN3000

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

Make your own R2GATE Surgical Kit with your favorite implant system. R2GATE 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 R2GATE Guide™ will be from the R2GATE Design Center.

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



Customized instrument for various implant system

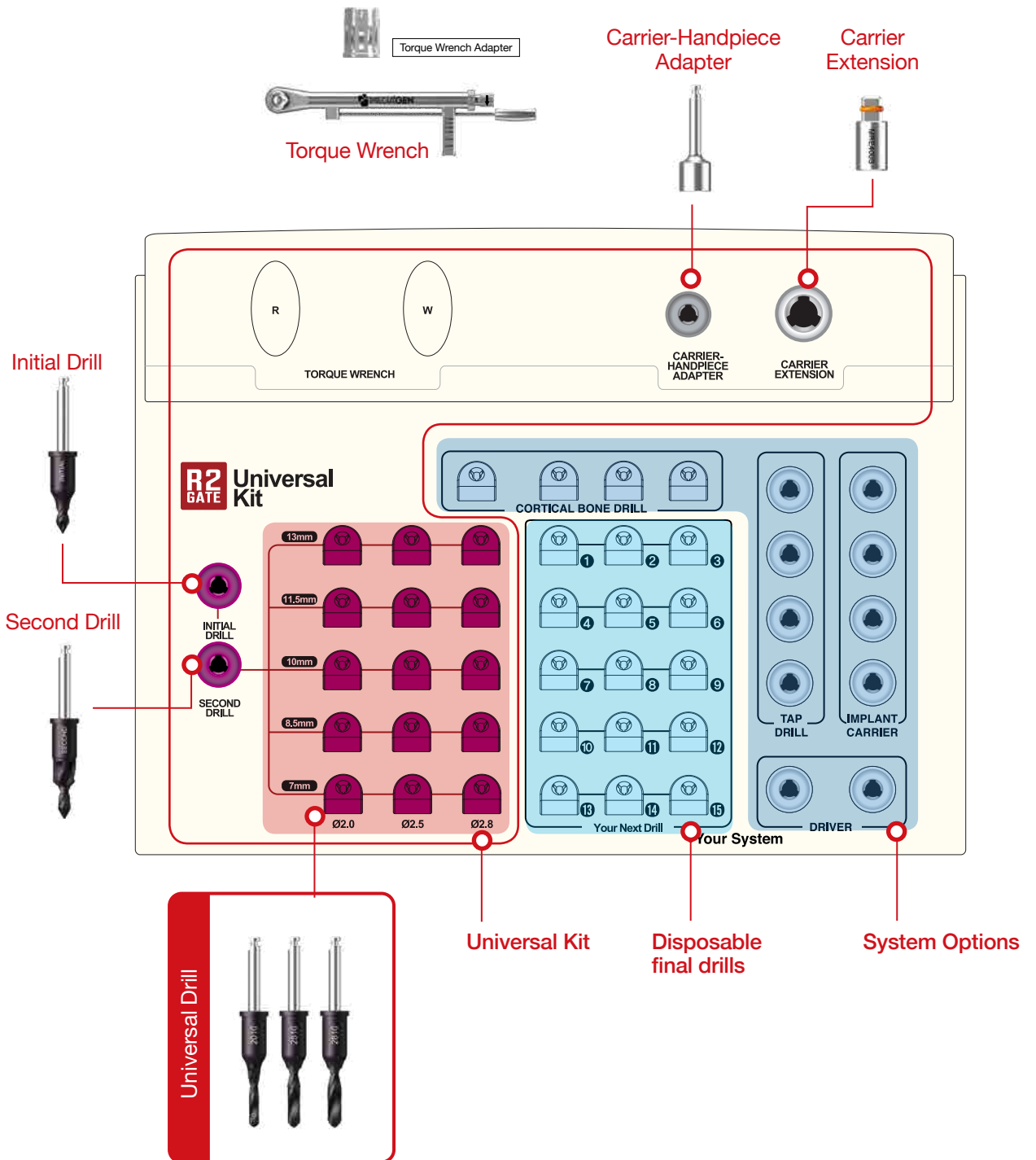
AryRidge / AryRidge Octa 1 / AnyOne Mini / ST BoneLevel(Straumann) / Nobel Active(Nobel Biocare) / SuperLine(Dentium) / TSIII(Osstem)
(Available system can be varied by country due to registration process)



Intermediate & final drill will be delivered with R2GATE Guide™

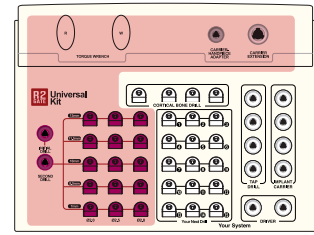


➔ R2GATE Universal Kit



➔ Drills & Components for R2GATE Universal Kit

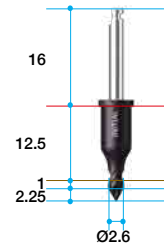
Basic drilling set for any implant system. It consists of initial drill, 2nd drill, universal drills and essential tools.



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 R2GATE Guide™.
- Recommended drilling speed range is 300 ~ 800 RPM with copious irrigation.

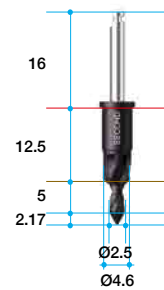
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.6	Ø5.0	1.0	R2ID2601



Second Drill

- This unique step-drill(from ø2.0 to ø4.6) is used to flare out the upper cortical bone of the osteotomy.
- 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.

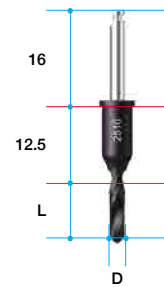
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø2.5	Ø5.0	5.0	R2SD2505



Stopper Drill

- Universal drills consist of ø2.0, ø2.5, ø2.8 diameter to enlarge the osteotomy gradually.
- The length of drill are designed as 7.0, 8.5, 10, 11.5, 13mm for most common length of implant system.
- Recommended drilling speed range is 500 ~ 800 RPM with copious irrigation.

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

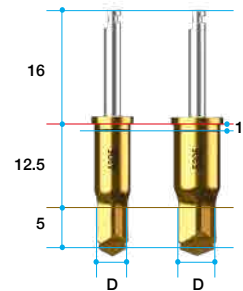
Type	Ref.C
Torque Wrench	TW70
Torque Wrench Adapter(Ratchet)	TTAR100



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	5.0	R2CD5305
Ø5.8			R2CD5805
Ø6.3			R2CD6305

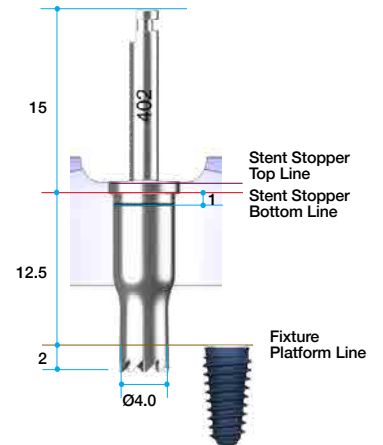
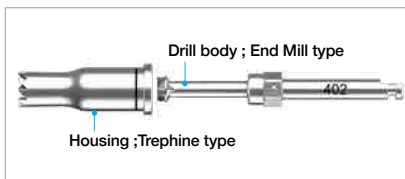


Optional Instrument

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

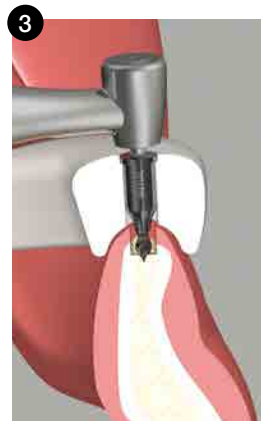
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø4.0	Ø5.0	15.5(12.5/2)	NCD402



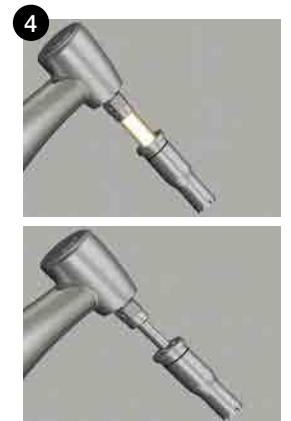
1 Set the site by drilling counter-clockwisely with low speed ($\leq 100\text{rpm}$)



2 Start drilling clockwisely (400~600rpm)



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



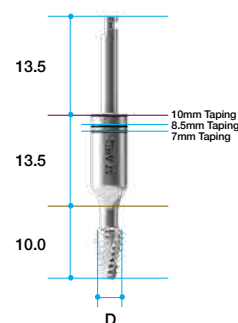
4 Disassemble body and housing after drilling to remove bone chip. Clean and sterilize after every usage.

1. System Options for AnyRidge Octa 1

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

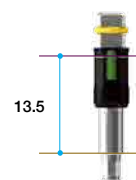
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.9	Ø5.0	9.5	R2TD33ARO
Ø4.0			R2TD37ARO
Ø4.4			R2TD41ARO
Ø4.7			R2TD44ARO
Ø5.0			R2TD48ARO



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

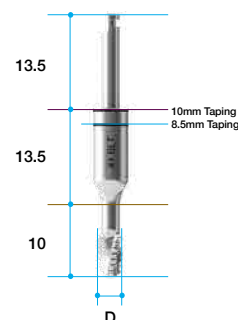


2. System Options for Straumann

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 enlargement of osteotomy.
- Recommended insertion torque and speed is 45 ~ 50Ncm, under 40 RPM.

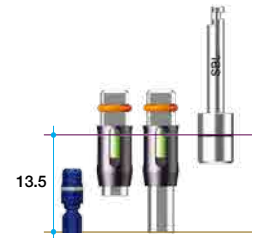
System	Diameter	Guide Diameter	Length(mm)	Ref.C
BoneLevel	Ø3.3	Ø5.0	10	R2TD33BL
	Ø4.1			R2TD41BL
	Ø4.8			R2TD48BL
Bone Level Taperd	Ø3.3	Ø5.0		R2TD33BLT
	Ø4.1			R2TD41BLT
	Ø4.8			R2TD48BLT
Standard & Standard Plus	Ø3.3	Ø5.0		R2TD33GL
	Ø4.1			R2TD41GL
	Ø4.8			R2TD48GL
	Ø4.8	Ø6.5	R2TD48WGL	
Taperde Effect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

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



Implant Carrier [Optional]

- Can be differentiated into two types of mount based on its surface treatment and etc.
 - IC*O1** : Loxim Mount
 - IC*O2** : Used if Loxim mount is fractured
 - IC*ON** : Normal Mount
- To pick up the fixture from the ampule and insert it to the osseotomy. 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.

System	Connection	Guide Diameter	Type	Ref.C
Standard	Loxim Mount	Ø5.0	Ratchet	ICRO1S
				ICRO2S
	Norma Mount	Ø6.5		ICRONSP
	Loxim Mount			ICWO1S
Standard Plus & Tapered Effect	Norma Mount	Ø5.0		ICWO2S
	Loxim Mount			ICWONS
	Norma Mount	Ø6.5		ICRO1SP
				ICRO2SP



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 Mount ①.

ICRSBL2

Implant carrier window ② or ③ has to be straight with undotted surface of Mount ①.

ICRSBN

Implant carrier window ② or ③ has to be straight with undotted surface of Mount ①.

3. System Options for Nobel Biocare

Implant Carrier [Optional]

- Two different implant carriers for regular stent since Ø3.5 fixture has different abutment connection- ICRH2224 : Ø3.5 fixture- ICRH2624 : Ø4.1, Ø5.0 fixture - ICWH2624
- To pick up the fixture from the ampule and insert it to the osseotomy. Then turn it to clockwise 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.

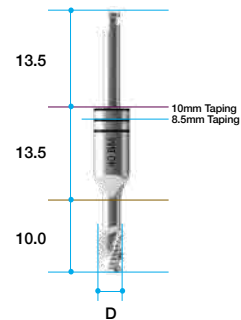
System	Connection	Guide Diameter	Type	Ref.C
Active & Conical Connection	2.2 Hex	Ø5.0	Ratchet	ICRH2224
	2.6 Hex			ICRH2624
	2.6 Hex	Ø6.5		ICWH2624
Replace Select Tapered & Straight	Trip 1	Ø5.0	Ratchet	ICRT35RT
	Trip 2			ICWT43RT
	Trip 3	Ø6.5		ICWT50RT



Tap Drill [Optional]

- The purpose of tap 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 enlargement 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 Astra

Implant Carrier [Optional]

- Two different implant carriers for regular guide since Ø3.5 fixture has different abutment connection- 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 osseotomy. Then turn it to clockwise 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.

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 manually.
- When it gets fixation from the osteotomy, connect the handpiece adaptor and use implant motor.
- Recommended insertion torque is 45~50Ncm.

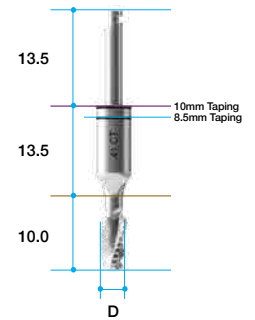
System	Connection	Guide Diameter	Type	Ref.C
Certain	Hex 2.2	Ø5	Ratchet	ICRH2221CT
	Hex 2.7	Ø6.5		ICWH2711CT



Tap Drill [Optional]

- The purpose of tap 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

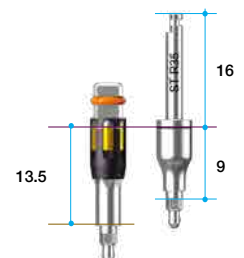


6. System Options for TSIII

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 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
2.1 Hex	Ø5.0	Ratchet	ICRH2127
2.5 Hex			ICRH2523O
2.1 Hex		Handpiece	ICRH2127H
2.5 Hex			ICRH2523HO

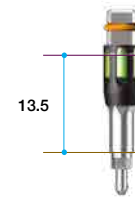


7. System Options for SuperLine

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 osseotomy. 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	ICRH2523SL
	Ø6.5		ICWH2523SL



8. System Options for 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 osseotomy. 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.

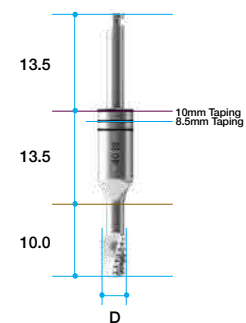
Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2518IS
			ICRH2523IS
	Ø6.5		ICWH2523IS



Tap Drill [Optional]

- The purpose of tap 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 tap 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			R2TD50IS

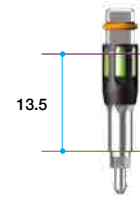


9. System Options for UFI

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 osseotomy. 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.

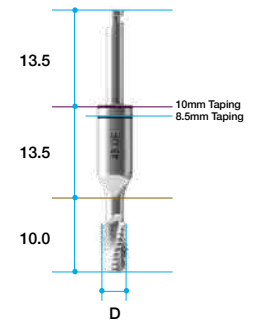
Connection	Guide Diameter	Type	Ref.C
2.5 Hex	Ø5.0	Ratchet	ICRH2523UF
	Ø6.5		ICWH2523UF



Tap Drill [Optional]

- The purpose of tap 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 enlargement 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	R2TD50UF		
	Ø5.5	Ø6.5		R2TD55UF



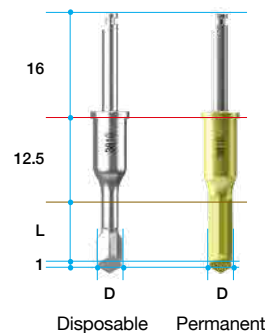
➔ Final Drill Option [Disposable or Permanent]

Stopper Drill[Straight]

For all implant system

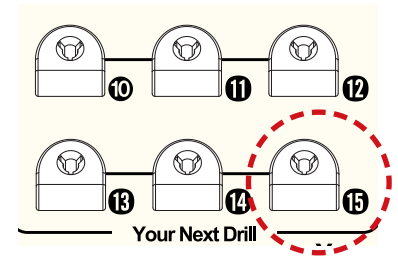
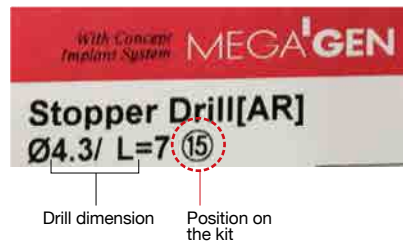
- Common use
- Step back type drilling
- Provided from local R2GATE Design Center to users. The size of disposable drills are decided depend size on treatment planning regarding to fixture size and bone density of patient.
- Recommended drilling speed is 300 ~ 800 RPM.
- Final drill.
- The base is disposable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

Diameter	Guide Diameter	Length(mm)	Permanent Ref.C	Disposal Ref.C
Ø3.4		7.0	R2PS3407	R2DS3407
		8.0	R2PS3408	R2DS3408
		9.0	R2PS3409	R2DS3409
		10.0	R2PS3410	R2DS3410
		11.0	R2PS3411	R2DS3411
		12.0	R2PS3412	R2DS3412
Ø3.8	Ø5.0	7.0	R2PS3807	R2DS3807
		8.0	R2PS3808	R2DS3808
		9.0	R2PS3809	R2DS3809
		10.0	R2PS3810	R2DS3810
		11.0	R2PS3811	R2DS3811
		12.0	R2PS3812	R2DS3812
Ø4.3		7.0	R2PS4307	R2DS4307
		8.0	R2PS4308	R2DS4308
		9.0	R2PS4309	R2DS4309
		10.0	R2PS4310	R2DS4310
		11.0	R2PS4311	R2DS4311
		12.0	R2PS4312	R2DS4312
Ø4.8		7.0	R2PS4807	R2DS4807
		8.0	R2PS4808	R2DS4808
		9.0	R2PS4809	R2DS4809
		10.0	R2PS4810	R2DS4810
		11.0	R2PS4811	R2DS4811
		12.0	R2PS4812	R2DS4812
Ø5.3	Ø6.5	7.0	R2PS5307	R2DS5307
		8.0	R2PS5308	R2DS5308
		9.0	R2PS5309	R2DS5309
		10.0	R2PS5310	R2DS5310
		11.0	R2PS5311	R2DS5311
		12.0	R2PS5312	R2DS5312
Ø5.8		7.0	R2PS5807	R2DS5807
		8.0	R2PS5808	R2DS5808
		9.0	R2PS5809	R2DS5809
		10.0	R2PS5810	R2DS5810
		11.0	R2PS5811	R2DS5811
		12.0	R2PS5812	R2DS5812
		13/0	R2PS5813	R2DS5813



Drill position on the kit

- Every disposable drills have the numbering system to clarify it's own position on the universal kit.
- Check the drill size and position number, then install it to the right position.



Sterilized package

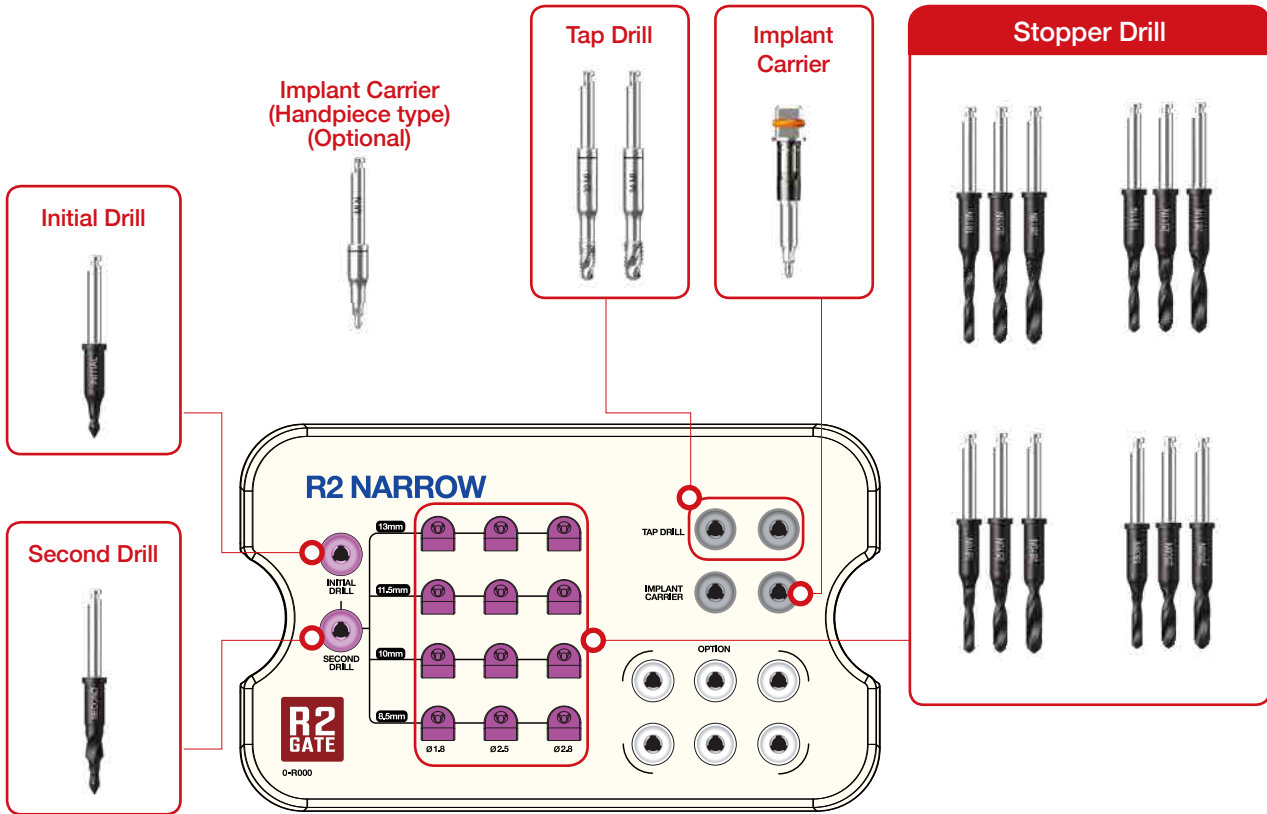
- All disposable drills are packaged at clean room and sterilized by "Gamma-ray".
- Check the "Sterilized" seal on the package and open it at the operation site before surgery.



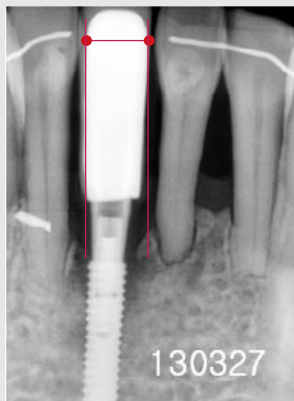
R2GATE Narrow Kit

Ref.C

KAGNS3000



When do we use R2GATE 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 placed 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 R2GATE 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 R2GATE Guide™.
- Recommended drilling speed range is 300 ~ 800 RPM with copious irrigation.

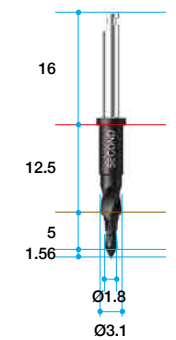
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø1.9	Ø3.5	1.0	R2ID1901N



Second Drill

- This unique step-drill(from Ø2.0 to 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.

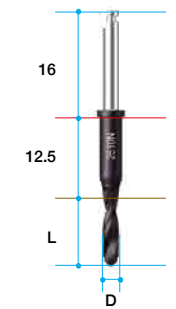
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø1.8	Ø3.5	5.0	R2SD1805N



Stopper Drill

- Universal drills consist of Ø2.0, Ø2.5, Ø2.8 diameter to enlarge the osteotomy gradually.
- The length of drill are designed as 7.0, 8.5, 10, 11.5,13mm for most common length of implant system.
- Recommended drilling speed range is 500 ~ 800 RPM with copious irrigation.

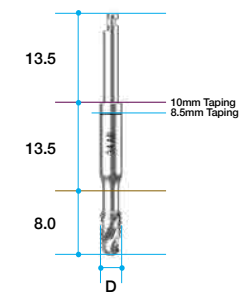
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø1.8	Ø3.5	8.0	R2SD1808N
		9.5	R2SD1810N
		11.0	R2SD1811N
		12.5	R2SD1813N
Ø2.5		8.0	R2SD2508N
		9.5	R2SD2510N
		11.0	R2SD2511N
		12.5	R2SD2513N
Ø2.8		8.0	R2SD2808N
		9.5	R2SD2810N
		11.0	R2SD2811N
		12.5	R2SD2813N



Tap Drill

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

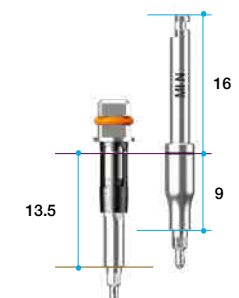
Diameter	Guide Diameter	Length(mm)	Ref.C
Ø3.0	Ø3.5	8.0	R2TD30MI
Ø3.4			R2TD34MI



Implant Carrier

- To pick up the fixture from the ampule and insert it to the osseotomy. 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
1.7 Hex	Ø3.5	Ratchet	ICNH1722
		Handpiece	ICNH1722H

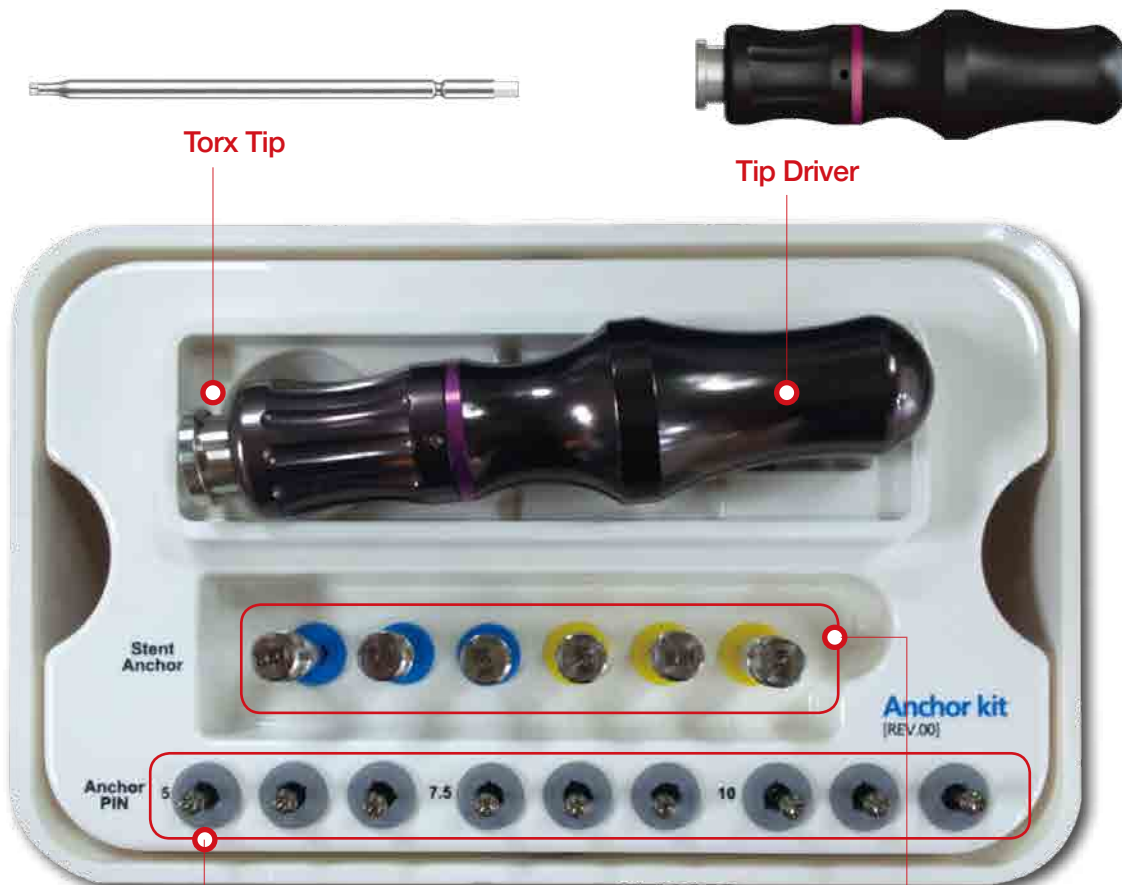


Anchor Kit

For an edentulous case or free end case, R2GATE Guide™ is fixed with Anchor Pins specially designed for stability of the R2GATE Guide™.

System	Ref.C
AnyRidge	KAGAS3000
AnyOne	KAGAS3001

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



Torx Tip

Tip Driver

Stent Anchor

Anchor kit
[REV.00]

Anchor PIN



Anchor Pin



Stent Anchor

M1.8 (AnyRidge) M2.0 (AnyOne)



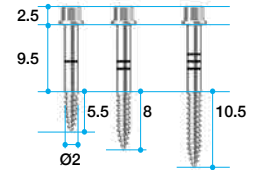
➔ Components for Anchor Kit



Anchor Pin

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

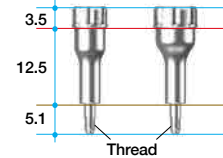
Diameter	Length(mm)	Marking Line	Ref.C
Ø2.0	5.5	1	TCMACP2015
	8.0	2	TCMACP2018
	10.5	3	TCMACP2020



Stent Anchor

- Connect through Hand & Hand Driver

Thread	Guide Diameter	Ref.C
M1.8 (AnyRidge)	Ø5.0	AGSAR18
	Ø6.5	AGSAW18
M2.0 (AnyOne)	Ø5.0	AGSAR20
	Ø6.5	AGSAW20



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 R2GATE Guide™ by placing it onto the neighboring teeth.

Case 2.

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

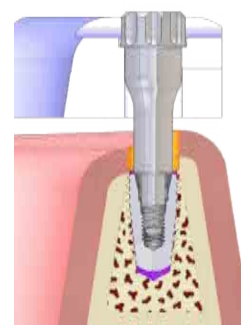
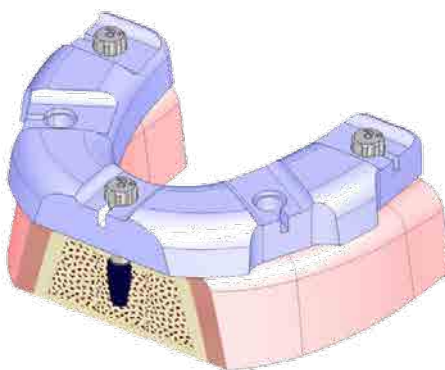


1. Fix the R2GATE Guide™ temporarily by asking patient to bite the R2GATE Guide™ using a resin or other tools.
2. Please use the Pin that R2GATE™ program selected, and place that Pin on the Driver Tip.
3. Insert the Pin into the R2GATE Guide™ that the patient is biting, and turn it into clockwise to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

*Make a hole on the Guide using $\varnothing 2.0$ 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 R2GATE Guide™.
- When the stability of the R2GATE 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 R2GATE Guide™. Evulse the fixture when the implantation is considered as a failure for lack of stability or a path is inaccurate.
2. Replace the R2GATE Guide™. Insert the R2GATE Guide™ Anchor to the R2GATE Guide™ Hole of the neighboring fixture, and place the R2GATE Guide™ by turning it into clockwise.

* When it is hard to get stability of the R2GATE 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 R2GATE Guide™ Anchor with an installed fixture to increase stability.



R2GATE[®] : Surgical KIT
by MEGA[!]GEN

