



NB

Implant System

ARUM



Natural Balance

CONTENTS

NB System

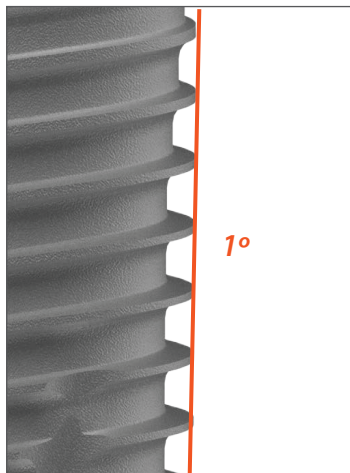
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Kit

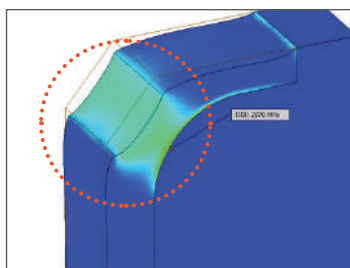
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NBI

Easy fixation on hard bone

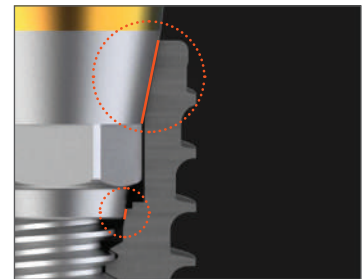


1° taper body & sufficient volume



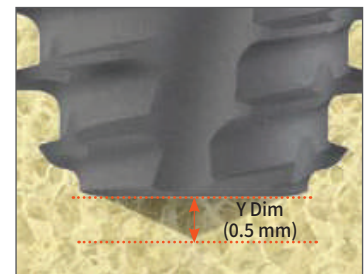
Lateral pressure distribution design

- Prevent thread fracture



Double contact system

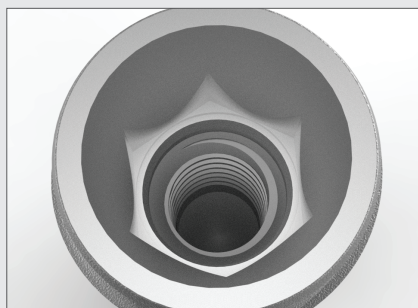
- Distribute the load to the fixture



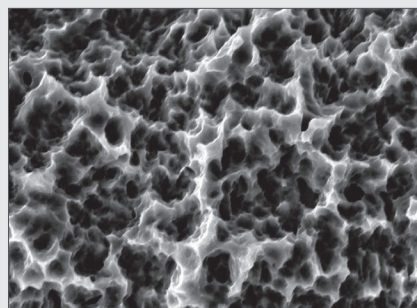
Minimized tip extension of the drill

Natural!

NB Implant Features



Internal hex 11° taper connection



Advanced S.L.A. surface

The clearer micro-pit,
the better osseointegration

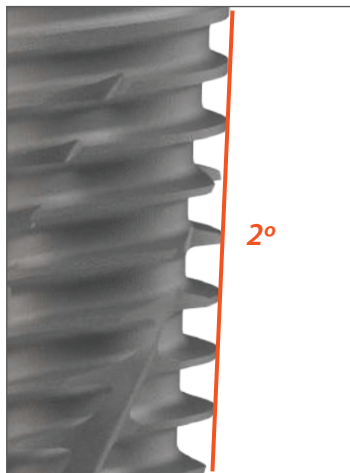


Special design to prevent surface damage

Breakable fixture type

NBII

Strong fixation on soft bone



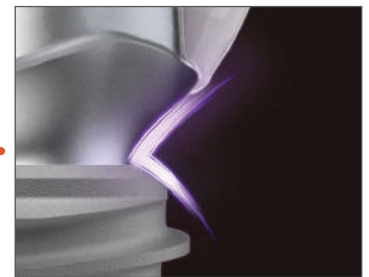
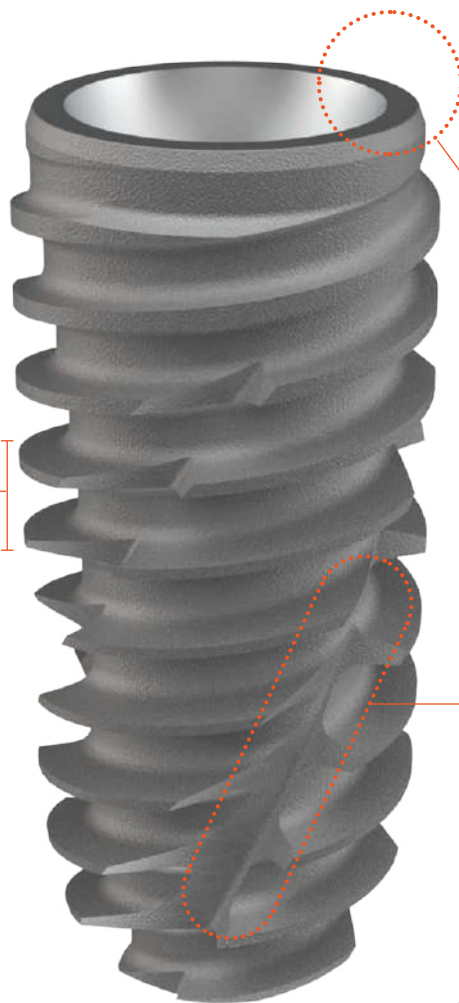
2° taper body

- Advantageous for immediate & early loading on soft bone



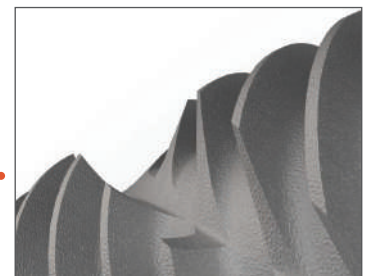
Pin thread

- Smooth insertion and strong initial stability



Platform switching

- Long-term stability improvement

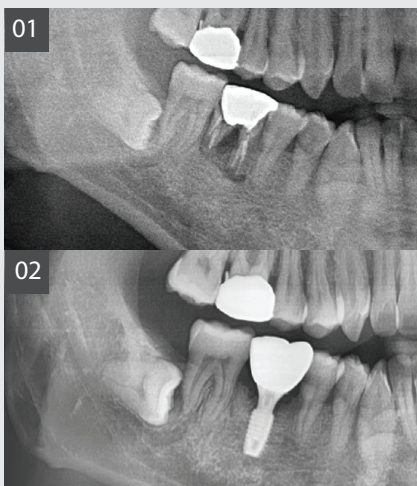


Cutting edge

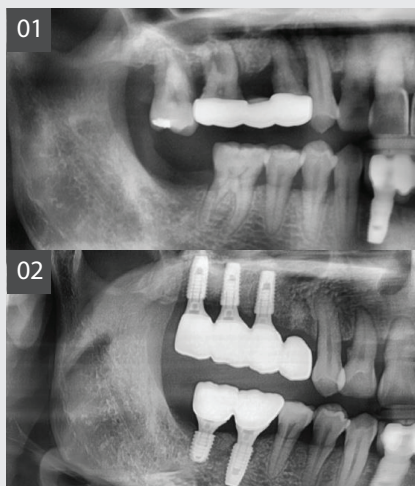
- Increasing self-tapping ability

Balance!

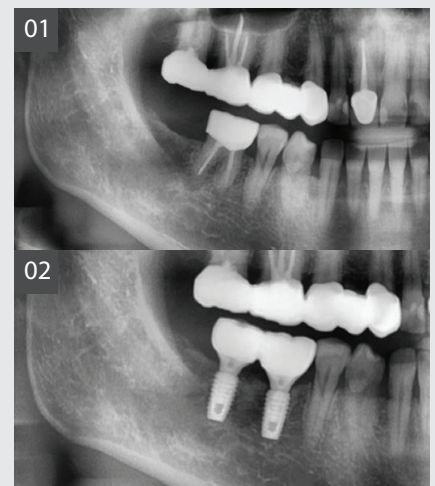
NB Clinical Cases



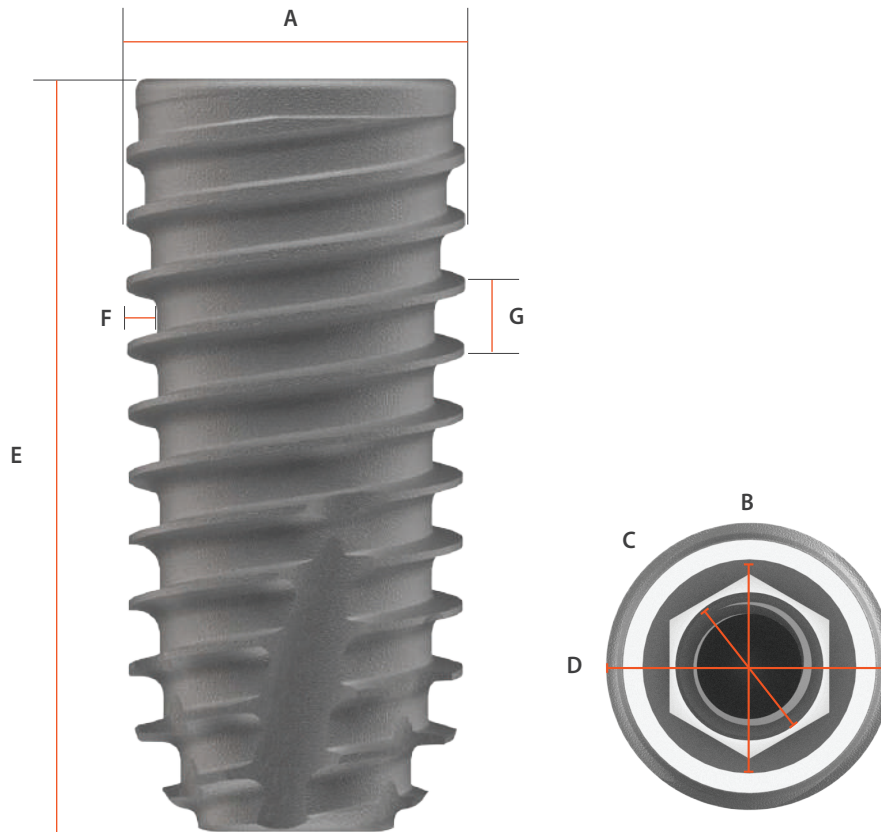
Case 1. Immediate placement

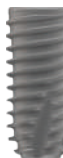


Case 2. Sinus surgery



Case 3. GBR



Connection			Regular						
NB I									
NB II									
A	Diameter (Ø)		 3.6	 4.0	 4.5	 5.0	 5.5	 6.0	 6.5
B	Abutment Interface (Ø)		3.35						
C	Hex		2.5						
D	Platform		3.6	4.0	4.15	4.25	4.5	5.0	5.0
E	Total Length		8.5 / 10.0 / 11.5 / 13.0	7.0 / 8.5 / 10.0 / 11.5 / 13.0					
F	Thread Depth	NB I	0.4				-		
		NB II	-	0.55	0.6				
G	Thread Pitch	NB I	0.85				-		
		NB II	-	0.9					



Prepare the NB fixture.



Press the OPEN section on the top to open it.



Take out the blister pack.



Open the sealed blister pack and take out the ampoule.



Remove the lid from the ampoule.



Push the slider up.



Align the fixture driver with the fixture inner hex and secure it.



Use the driver to break off the lower connection of the fixture.



Preparation for implantation is complete.

NBI Fixture

※ Cover screw included.

D Ø 3.6

Hex 2.5

R



8.5

NB13608SS



10.0

NB13610SS



11.5

NB13611SS



13.0

NB13613SS

D Ø 4.0

Hex 2.5

R



7.0

NB14007SS



8.5

NB14008SS



10.0

NB14010SS



11.5

NB14011SS



13.0

NB14013SS

D Ø 4.5

Hex 2.5

R



7.0

NB14507SS



8.5

NB14508SS



10.0

NB14510SS



11.5

NB14511SS



13.0

NB14513SS

D Ø 5.0

Hex 2.5

R



7.0

NB15007SS



8.5

NB15008SS



10.0

NB15010SS



11.5

NB15011SS



13.0

NB15013SS

NBII Fixture

※ Cover screw included.

D Ø 4.0

Hex 2.5

R

				
7.0	8.5	10.0	11.5	13.0
NB24007SS	NB24008SS	NB24010SS	NB24011SS	NB24013SS

D Ø 4.5

Hex 2.5

R

				
7.0	8.5	10.0	11.5	13.0
NB24507SS	NB24508SS	NB24510SS	NB24511SS	NB24513SS

D Ø 5.0

Hex 2.5

R

				
7.0	8.5	10.0	11.5	13.0
NB25007SS	NB25008SS	NB25010SS	NB25011SS	NB25013SS

D Ø 5.5

Hex 2.5

R

				
7.0	8.5	10.0	11.5	13.0
NB25507SS	NB25508SS	NB25510SS	NB25511SS	NB25513SS

D Ø 6.0

Hex 2.5

R

				
7.0	8.5	10.0	11.5	13.0
NB26007SS	NB26008SS	NB26010SS	NB26011SS	NB26013SS

D Ø 6.5

Hex 2.5

R

				
7.0	8.5	10.0	11.5	13.0
NB26507SS	NB26508SS	NB26510SS	NB26511SS	NB26513SS

Prosthetic Process

Abutment



Cement



Custom Abutment



Bar / Bridge

HOIL
D E N T A L

*Arum Implant
Official Milling Centre*

Lab Analog



Lab analog

Impression



Transfer



Pick-up



Scanbody

Cover & Healing



Cover



Healing



Scan healing

Fixture



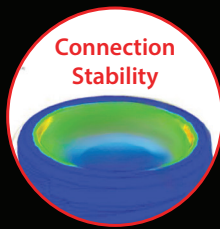
NB I



NB II

SMART ABUTMENT

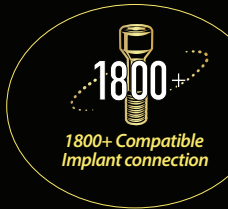
Smarter. Simpler. More Precise.



**Connection
Stability**

Maximum Contact Surface

Maximising the contact surface between the abutment and implant.

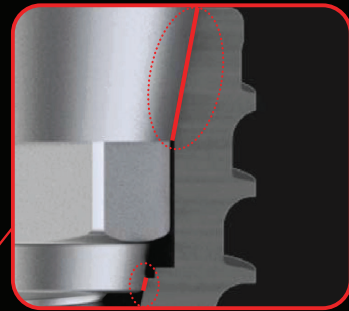


1800+
Compatible
Implant connection



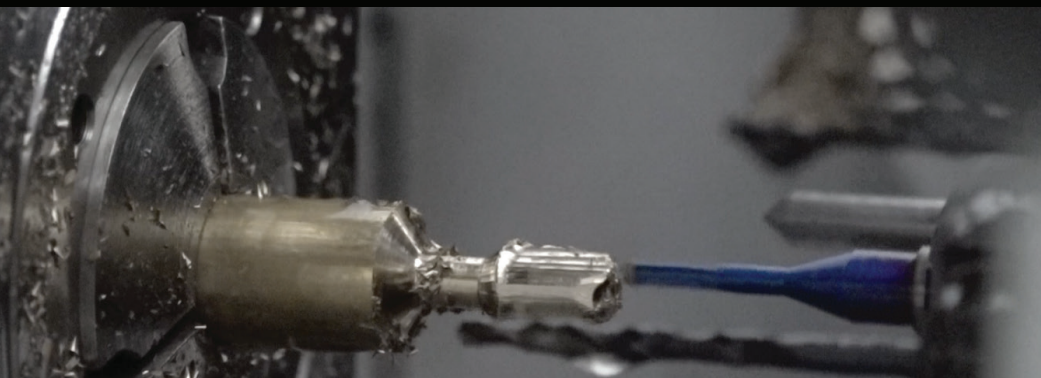
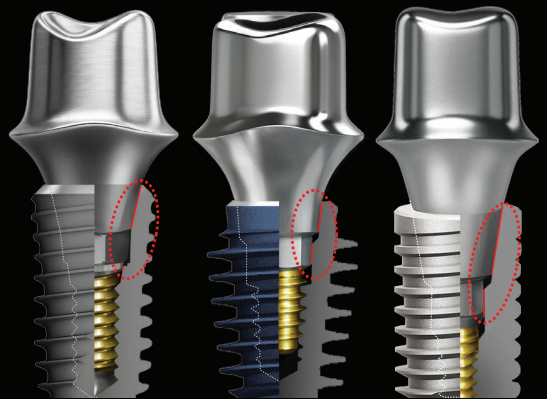
Titanium Nitride Treatment - i-ON Screw

i-ON coating improves screw durability, stability, and antibacterial performance.



Double Contact Point

Delivers a precise fitting of Taper and Hexa connections.



- ✓ No errors — *Milled with advanced implant milling technology*
- ✓ No need for pre-milled blanks
- ✓ No double scanning — *Direct milling from STL files*

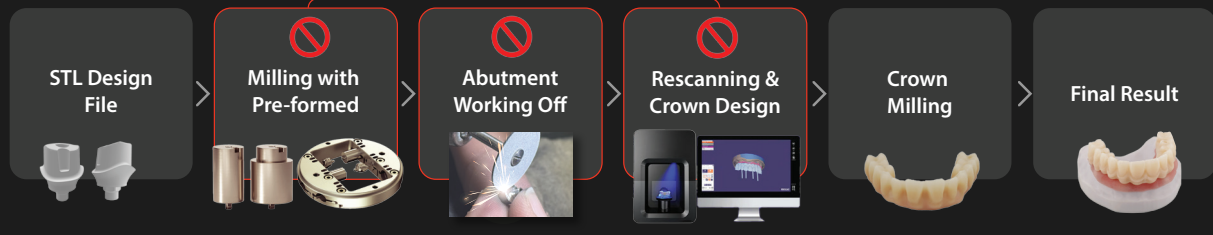
Conventional Milling Process

VS

Hoil Smart Milling Process

Conventional Process with Pre-formed

**Error may occur.*



VS

Hoil Smart Milling Process

*No error, Smart Milling Process—
Precision increases and time is saved.*



What's the Difference?

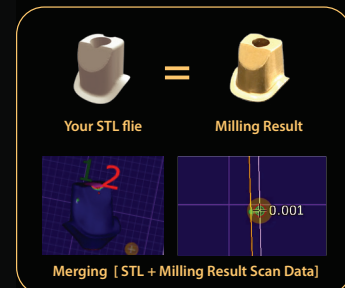
Modelless Case Available (No need double scan)

You can design the CAD/CAM crown while designing the Hoil Smart Abutment simultaneously.



Superior Precision & Fit

Milled 100% identical to your STL design with a maximum milling tolerance of 1 μ m.



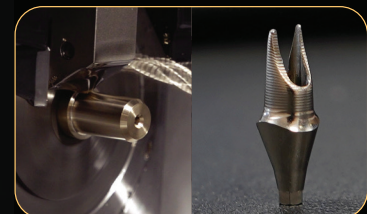
Secure Connection by Direct Milling

Pre-formed errors can occur due to milling tolerances and connector separation issues.



Preserves the Original Design

No sprues from hand polishing.
Provides ideal surface roughness for cement retention.



PREMIUM BAR

Nothing More Perfect Than This



Premium Basic Bar



Premium
Abutment Hybrid Bar



Premium Hybrid Bar



Premium
Telescopic Bar

*Where i-ON Screw Meets Premium Milling
— Perfection Redefined*



Prevent Loosening



Anti-Fracture



ARUM Implant Official Milling Centre

Next Level

Swiss-Made Precision CNC Milling Machine 
Built for Ultimate Stability & Precision



7-Tonne Structure: Zero vibration for ultra-precise milling



No.1 Premium Quality in the UK



Stepped design for stronger fixation & retention



Side milling of retention holes, ensuring long-term stability.

What's the Difference?



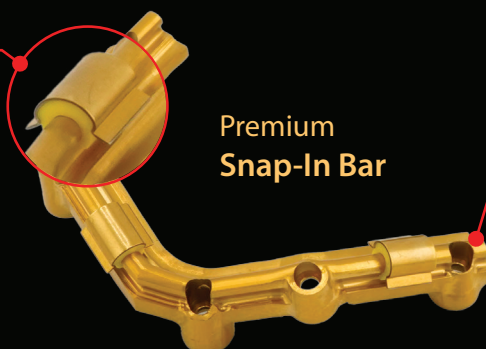
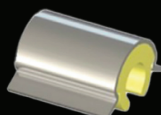
Stepped Groove Design

The stepped groove design provides a secure mechanical lock, enhancing the bond between materials. It also ensures precise alignment and increased stability during function.



Round Shape

Round-shaped header bar



Designed to solve cases

- Narrow implant spacing
- Large implant angulation

Retention Holes

Retention holes enhance the mechanical bonding between the bar and veneering material, ensuring strong adhesion. They also help distribute stress evenly, improving durability and long-term stability.



Premium Abutment Hybrid Bar

SMART MULTI ABUTMENT



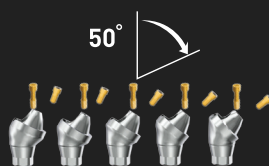
Multi Convertible Abutment

All Type of Multi-unit Connection Available

Option 1 + 2 + 3

Option 1.

Angulation



Up to 50 degrees

Option 2.

Connection Position



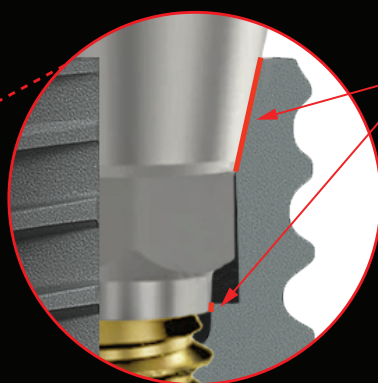
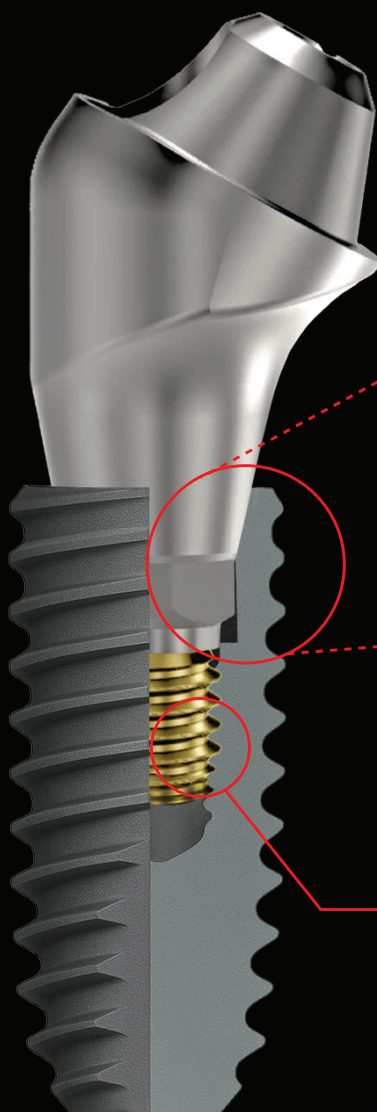
Position adjustable

Option 3.

Gingival Height



Adjustable gingival height & compression



Double Contact Point

Superior Fit with Hoil Multi Abutment

Provides an optimal fixture–abutment fit, reducing marginal bone loss and screw complications.



Titanium Nitride Treatment - i-ON Screw

i-ON coating improves screw durability, stability, and antibacterial performance



ANGULATED CHANNEL MILLING

Exclusive rights to Angulated Milling in the UK



Legal Protection

The angulated screw channel milling process employed by Hoil Dental is patented and enjoys legal protection, granting our company exclusive rights to this technology in the UK through a contractual agreement with Kulzer GmbH. Consequently, any attempt to perform angulated milling independently or utilise milling services from other centres within the UK, without prior explicit authorisation from Hoil Dental, may result in legal repercussions.



Quality Management System

In accordance with ISO 13485 standards, our processing ensures that all products passing through our system receive legal protection, alleviating concerns for our customers. We offer a quality guarantee for all jobs involving angulation as well.



i·ON SCREW

Nanohardness at least **5 times**,
Elasticity at least **3 times** more than uncoated



Significantly Prevents Screw Loosening

- ✓ Lower the coefficient of friction (approx. from **0.4 to 0.2** in dry conditions).
- ✓ For the same tightening torque, a more predictable preload can be achieved.
- ✓ This **reduces the risk of screw loosening**, a common complication in implant prosthetics.

Enhanced Antibacterial Properties

- ✓ Smooth i·ON coatings ($Ra \leq 0.05 \mu m$) show reduced plaque retention compared to rough titanium.
- ✓ Lower the risk of peri-implantitis by limiting bacterial colonisation.

Increased Wear Resistance

- ✓ A hard coating that **protects screw threads** from wear during multiple tightening/untightening cycles.
- ✓ Prevents deformation or "cold welding" often seen with titanium screws.
- ✓ Potentially increases the **reusability and longevity** of screws.

Enhanced Corrosion Resistance

- ✓ The oral environment exposes screws to saliva, pH fluctuations, and bacterial metabolites.
- ✓ i·ON coating acts as a **stable barrier** against oxidation and galvanic corrosion.
- ✓ Helps reduce ion release and maintain **long-term biocompatibility**.

Aesthetic Benefit

- ✓ i·ON coating produces a golden hue rather than gray titanium.
- ✓ Prevents grayish shine-through in the **anterior zone** when gingival tissue is thin.
- ✓ **Improves the esthetic outcome** in visible areas.

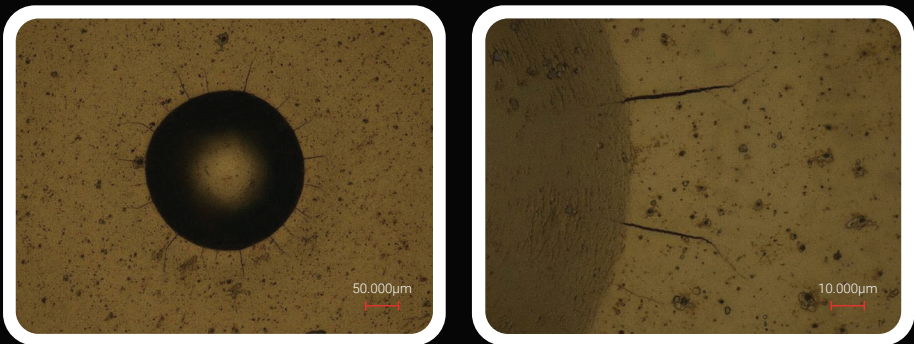


Medical Titanium Nitride Coating (i-ON Coating)

Efficacy of i-ON Coating

Through rigorous testing conducted by our specialised research laboratory, we have examined the Nanoindentation and fatigue characteristics of Custom Abutments before and after i-ON Coating application.

The results, as displayed in the table below, unequivocally indicate significant improvements in **surface hardness**, with an increase of at least **5-fold**. Additionally, the elasticity, as represented by **Young's Modulus**, has demonstrated a minimum **3-fold** enhancement.

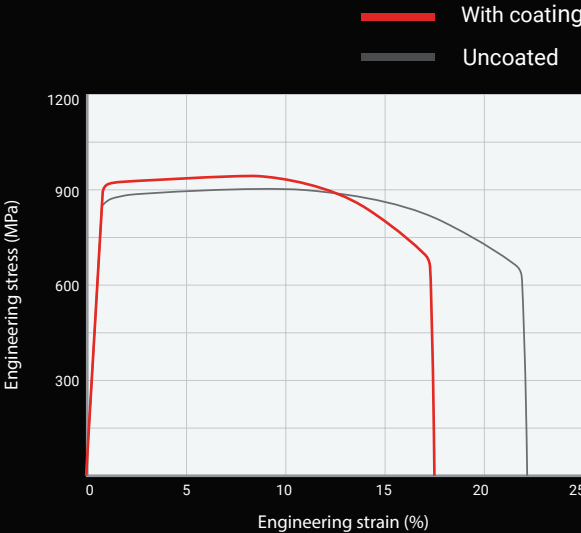


Effects on Screws



Property	Before Coating	After Coating
Nanohardness (Nanoindentation)	5.1 ± 1.1. GPa	27.1 ± 3.4 GPa
Young's Modulus (Elasticity)	141 ± 18 GPa	450 ± 49 GPa
Fatigue Characteristics (Fatigue Test Results)	21.9%	17.7%

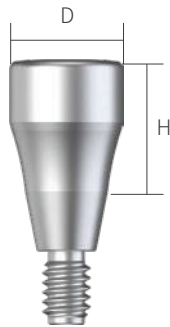
These findings not only underline the remarkable performance enhancement achieved through i-ON Coating but also highlight its potential to significantly reduce fatigue related concerns in our products.



Healing

■ Healing Abutment

- Use a 1.27 Hex driver.
- Recommended tightening torque 8 - 10Ncm.



[HA4505R]



D	H	3.0	5.0	7.0	9.0
R Ø4.5		HA4503R	HA4505R	HA4507R	HA4509R
Ø5.5		HA5503R	HA5505R	HA5507R	HA5509R
Ø6.5		HA6503R	HA6505R	HA6507R	HA6509R

■ Scan Healing Abutment

- Scan body + Healing abutment.
- Use a 1.27 Hex driver.
- Recommended tightening torque 8-10Ncm.



[HAS6505R]

D	H	3.0	5.0	7.0	9.0
R Ø4.5		HAS4503R	HAS4505R	HAS4507R	HAS4509R
Ø5.5		HAS5503R	HAS5505R	HAS5507R	HAS5509R
Ø6.5		HAS6503R	HAS6505R	HAS6507R	HAS6509R

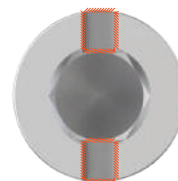
■ Height Classification Method



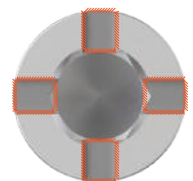
3mm



5mm



7mm



9mm

Impression

Transfer Impression Coping

- Use a 1.27 Hex driver.
- Recommended tightening torque 8-10Ncm.

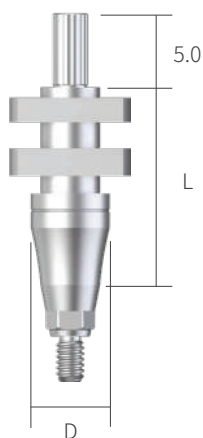


[ICTH5511R17]

D	L			
		9.5	11.5	15.5
R Ø4.5	Hex	ICTH4509R15	ICTH4511R17	ICTH4515R21
	Non-Hex	ICTN4509R15	ICTN4511R17	ICTN4515R21
Ø5.5	Hex	ICTH5509R15	ICTH5511R17	ICTH5515R21
	Non-Hex	ICTN5509R15	ICTN5511R17	ICTN5515R21
Ø6.5	Hex	ICTH6509R15	ICTH6511R17	ICTH6515R21
	Non-Hex	ICTN6509R15	ICTN6511R17	ICTN6515R21

Pick-up Impression Coping

- Use a 1.27 Hex driver.
- Recommended tightening torque 8-10Ncm.



[ICPH4511R22]

D	L			
		9.5	11.5	15.5
R Ø4.5	Hex	ICPH4509R20	ICPH4511R22	ICPH4515R26
	Non-Hex	ICPN4509R20	ICPN4511R22	ICPN4515R26
Ø5.5	Hex	ICPH5509R20	ICPH5511R22	ICPH5515R26
	Non-Hex	ICPN5509R20	ICPN5511R22	ICPN5515R26
Ø6.5	Hex	ICPH6509R20	ICPH6511R22	ICPH6515R26
	Non-Hex	ICPN6509R20	ICPN6511R22	ICPN6515R26

■ CF Scanbody

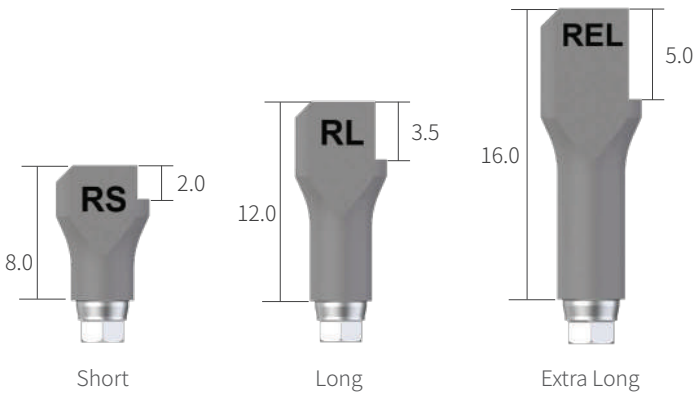
- Surface treatment to minimize light reflection, powder free.
- Flat top contact : Increased impression accuracy.
- Use a 1.27 Hex driver.
- Recommended tightening torque 8-10Ncm.



[AS_NB_R_SBL]

	L	8.0	12.0	16.0
R		AS_NB_R_SBS	AS_NB_R_SBL	AS_NB_R_SBEL

■ Classification method



■ Lab Analog

- Conventional & Digital analog.
- Production of 3D printing models using libraries.



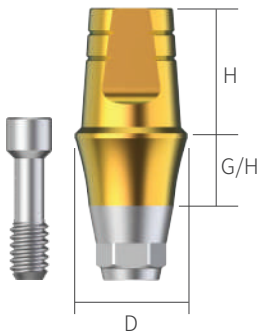
[ANH4510R]

	Code
R Ø4.5	ANH4510R

Abutment

■ Cement Abutment

- Basic 2-piece abutment.
- TIN Coating.
- Use a 1.27 Hex driver.
- Recommended tightening torque : 35Ncm.



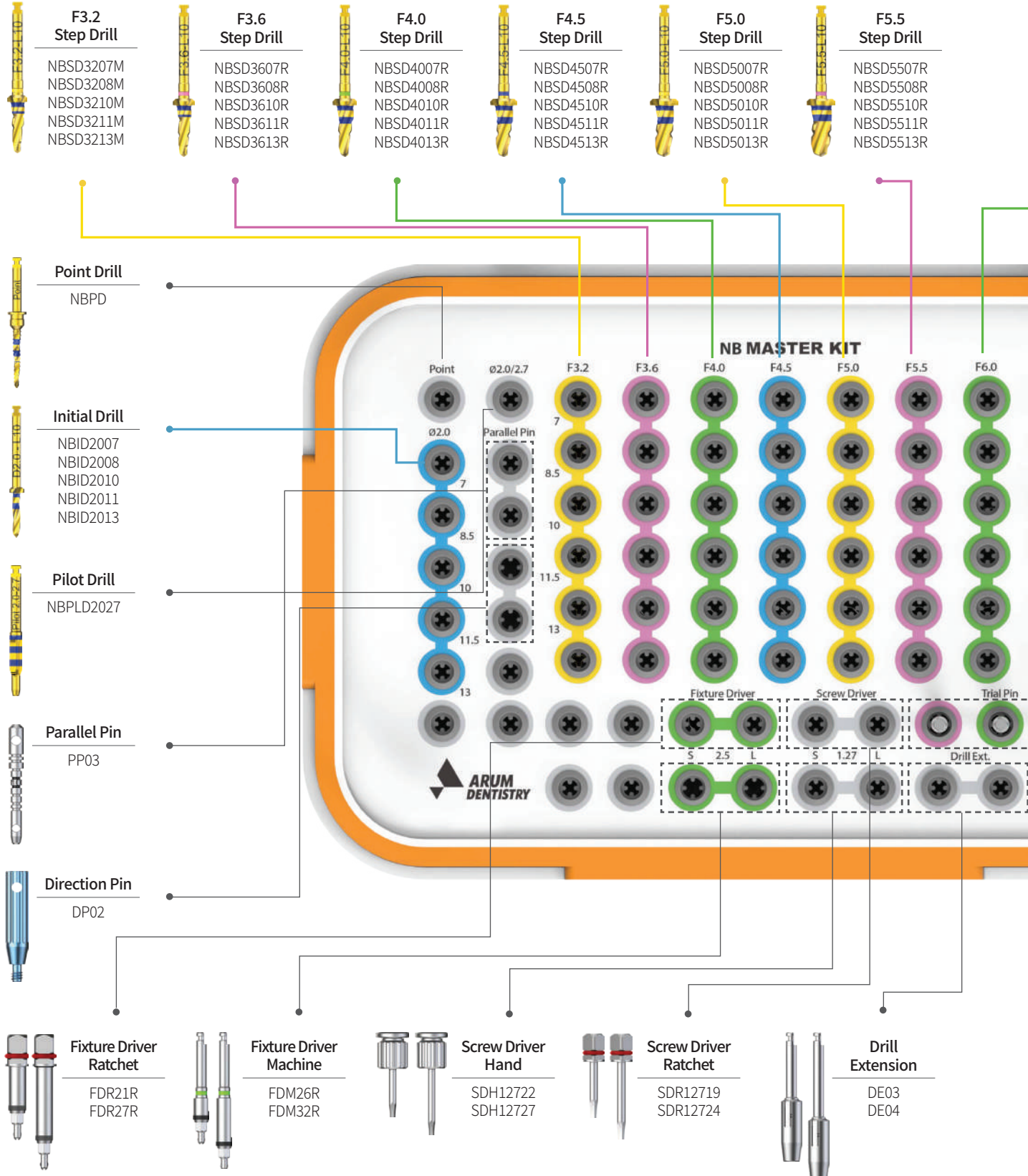
[SACH4535R]

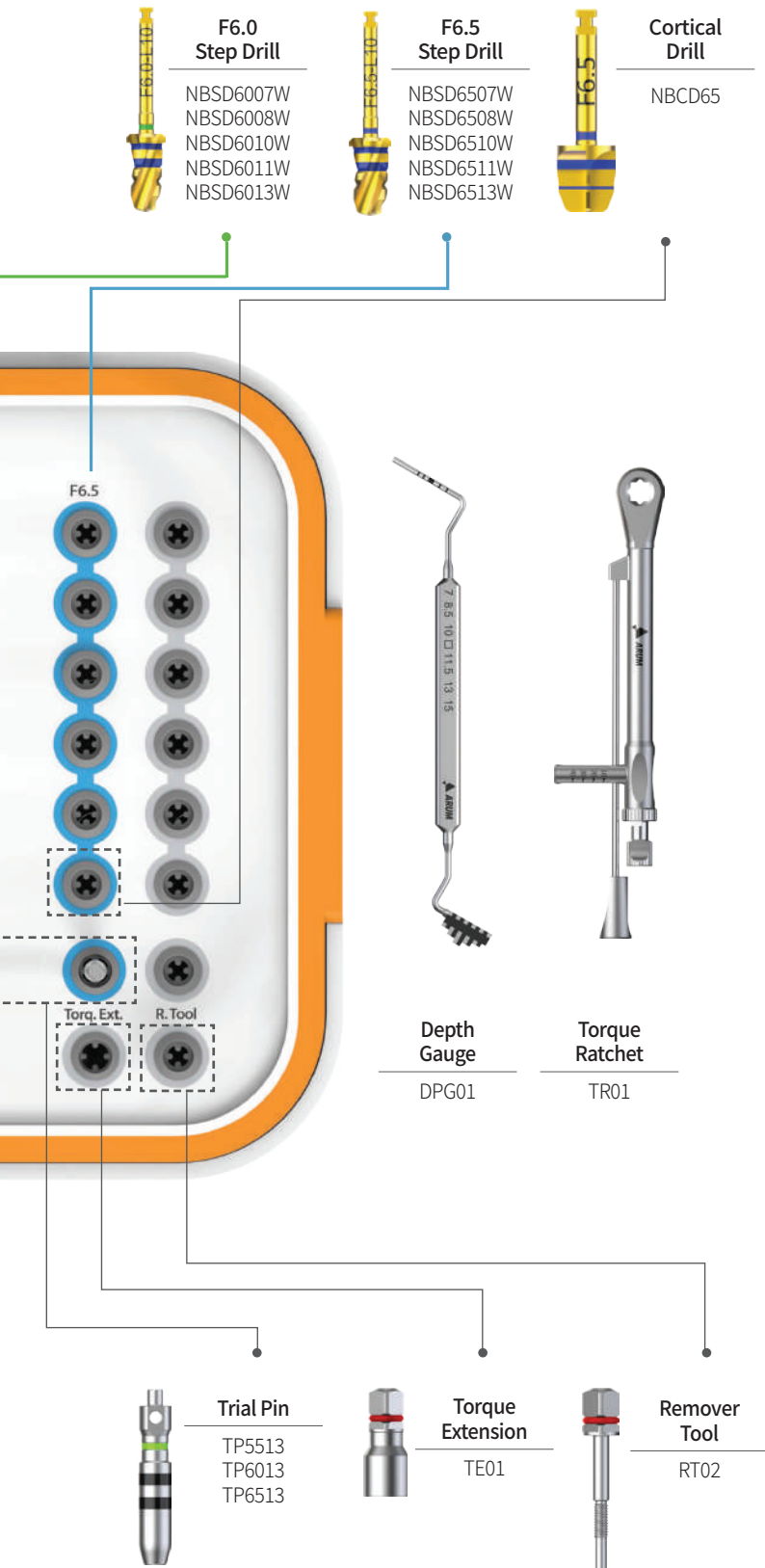
D		G/H	1.0	2.0	3.0	4.0	5.0	6.0
		H	5.0					
R	Ø4.5	Hex	SACH4515R	SACH4525R	SACH4535R	SACH4545R	SACH4555R	SACH4565R
		Non-Hex	SACN4515R	SACN4525R	SACN4535R	SACN4545R	SACN4555R	SACN4565R
Screw : NBAS	Ø5.5	Hex	SACH5515R	SACH5525R	SACH5535R	SACH5545R	SACH5555R	SACH5565R
		Non-Hex	SACN5515R	SACN5525R	SACN5535R	SACN5545R	SACN5555R	SACN5565R
	Ø6.5	Hex	SACH6515R	SACH6525R	SACH6535R	SACH6545R	SACH6555R	SACH6565R
		Non-Hex	SACN6515R	SACN6525R	SACN6535R	SACN6545R	SACN6555R	SACN6565R

D		G/H	1.0	2.0	3.0	4.0	5.0	6.0
		H	7.0					
R	Ø4.5	Hex	SACH4517R	SACH4527R	SACH4537R	SACH4547R	SACH4557R	SACH4567R
		Non-Hex	SACN4517R	SACN4527R	SACN4537R	SACN4547R	SACN4557R	SACN4567R
Screw : NBAS	Ø5.5	Hex	SACH5517R	SACH5527R	SACH5537R	SACH5547R	SACH5557R	SACH5567R
		Non-Hex	SACN5517R	SACN5527R	SACN5537R	SACN5547R	SACN5557R	SACN5567R
	Ø6.5	Hex	SACH6517R	SACH6527R	SACH6537R	SACH6547R	SACH6557R	SACH6567R
		Non-Hex	SACN6517R	SACN6527R	SACN6537R	SACN6547R	SACN6557R	SACN6567R

NB Master Kit

※ Set Code : MAKC-SET





01



User-friendly surgical kit & instrument

02



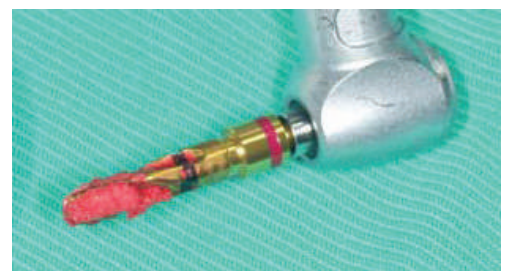
Stopper system by drill length

03



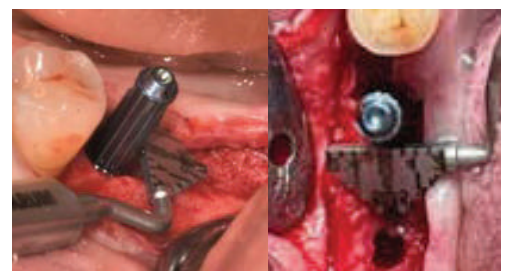
Basic configuration of instruments of various lengths

04



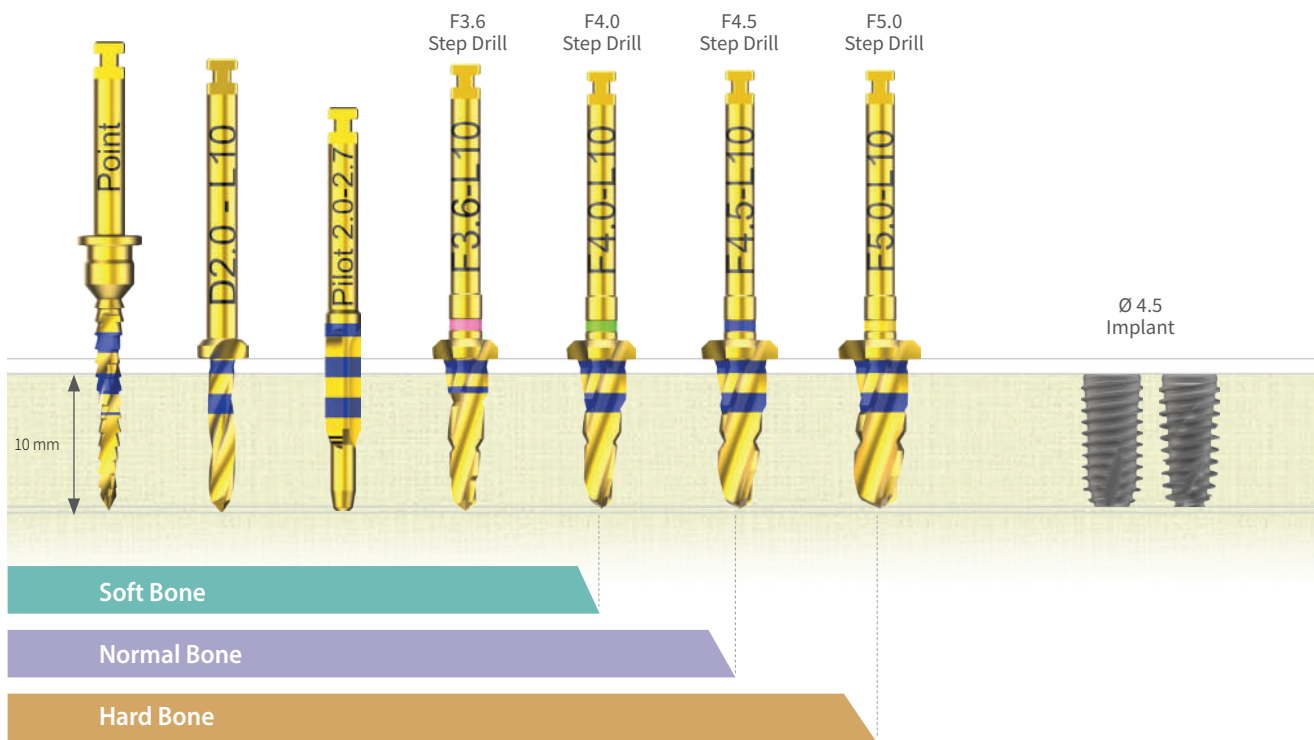
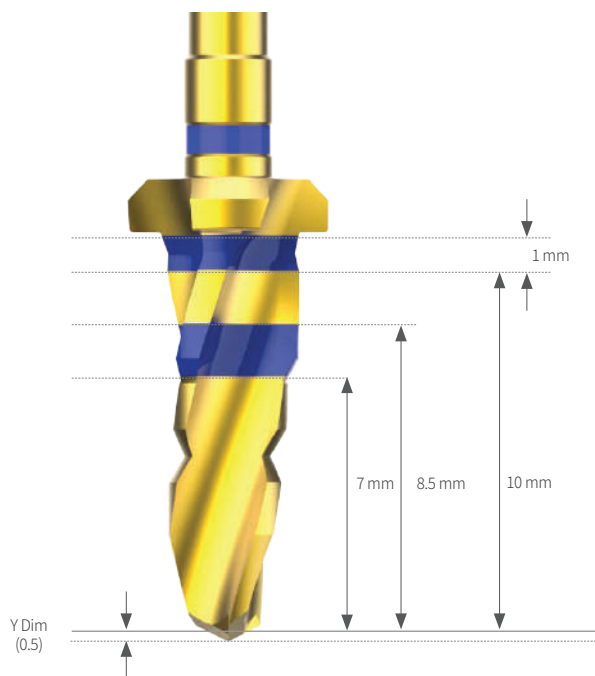
Easy to collect autogenous bone during drilling

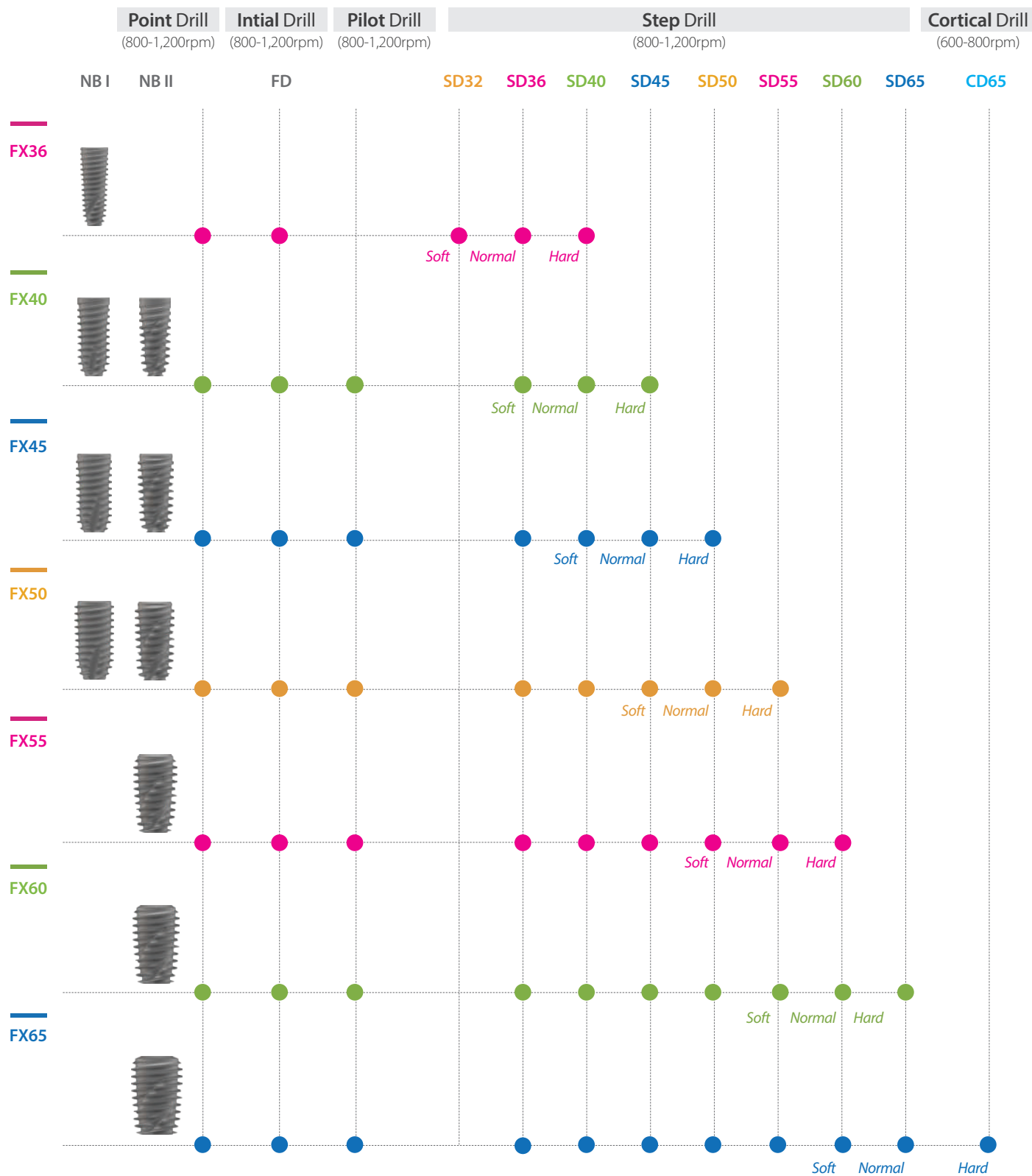
05



Various direction & positioning instruments for user convenience

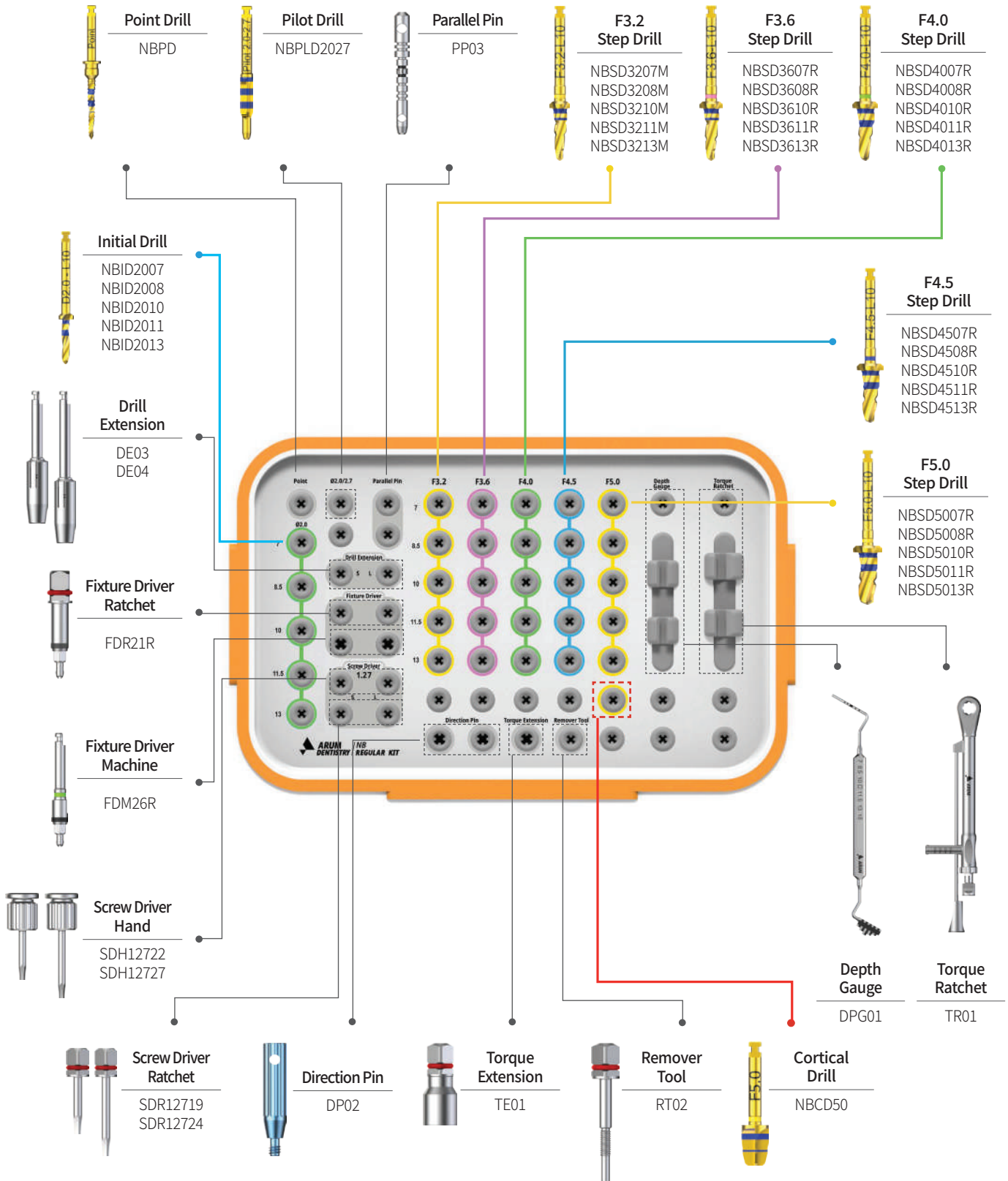
F4.5 Step Drill (10mm)





NB Regular Kit

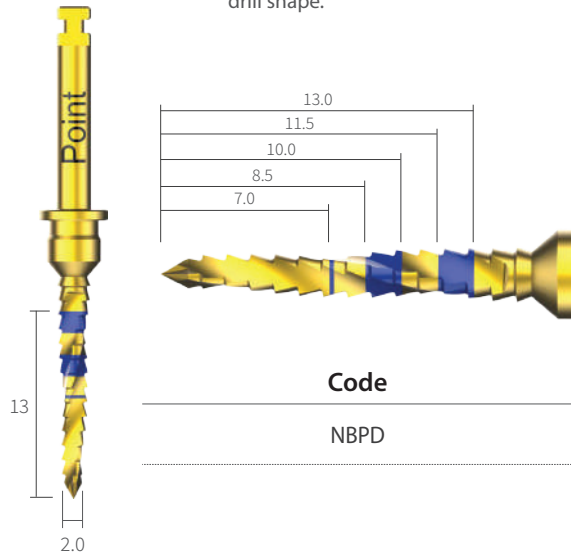
※ Set Code : REKC-SET



Drill

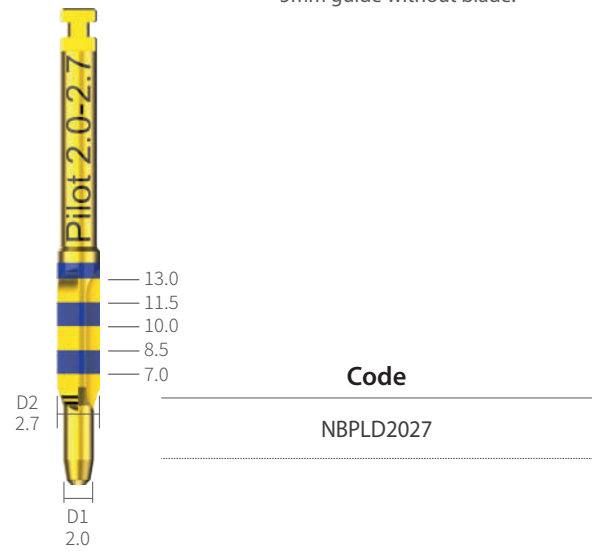
■ Point Drill

- Drill for implant positioning.
- Path can be adjusted with a side-cut drill shape.



■ Pilot Drill

- Prevents the direction of the next drill from changing and makes drilling easier.
- 5mm guide without blade.



■ Initial Drill

- Drilling along the path of the point drill.
- Select a drill that matches the length of the fixture to be installed.
- Y-dimension 0.5mm.

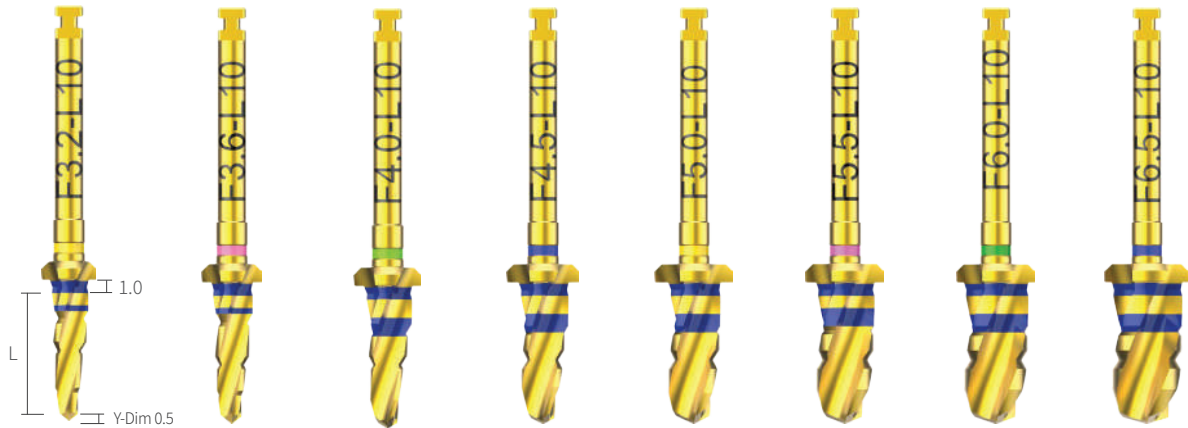


L	7.0	8.5	10.0	11.5	13.0
	NBID2007	NBID2008	NBID2010	NBID2011	NBID2013

Drill

Step Drill

- Stopper drill by fixture diameter and length.
- All drills : Y-dimension 0.5mm.



L \ D	3.2	3.6	4.0	4.5	5.0	5.5	6.0	6.5
7.0	NBSD3207M	NBSD3607R	NBSD4007R	NBSD4507R	NBSD5007R	NBSD5507R	NBSD6007W	NBSD6507W
8.5	NBSD3208M	NBSD3608R	NBSD4008R	NBSD4508R	NBSD5008R	NBSD5508R	NBSD6008W	NBSD6508W
10.0	NBSD3210M	NBSD3610R	NBSD4010R	NBSD4510R	NBSD5010R	NBSD5510R	NBSD6010W	NBSD6510W
11.5	NBSD3211M	NBSD3611R	NBSD4011R	NBSD4511R	NBSD5011R	NBSD5511R	NBSD6011W	NBSD6511W
13.0	NBSD3213M	NBSD3613R	NBSD4013R	NBSD4513R	NBSD5013R	NBSD5513R	NBSD6013W	NBSD6513W

Cortical Drill

- Used for hard bone implantation
- NBCD50 : Fixture 5.0 for hard bone (Included in Regular Kit).
- NBCD65 : Fixture 6.5 for hard bone (Included in Master Kit).

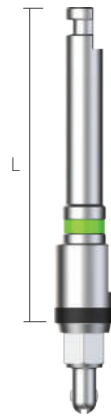


L \ D	5.0	6.5
5.5	NBCD50	NBCD65

Instruments

■ Fixture Driver

- Design specialized for fixture holding function.



Machine

L	Short	Long
	20	26
	FDM26R	FDM32R



Ratchet

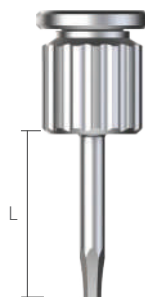
L	Short	Long
	16	22
	FDR21R	FDR27R

■ Screw Driver

- 1.27mm Hex.



Ratchet

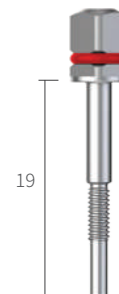


Hand

L	Short	Long	Short	Long
	13	18	13	18
	SDR12719	SDR12724	SDH12722	SDH12727

■ Remover Tool

- Used to separate fixture and abutment.



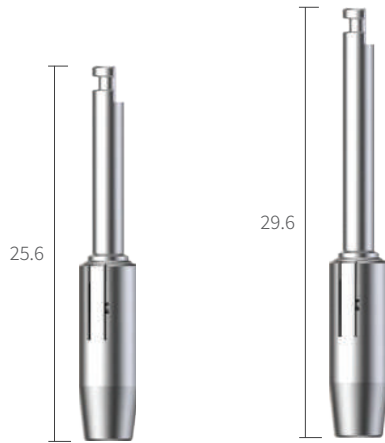
Code

RT02

Instruments

■ Drill Extension

- Extension of length of drills and Machine drivers.
- Be careful as there is a risk of bending or fracture when using with excessive force.



L	25.6	29.6
	DE03	DE04

■ Torque Extension

- Extension of the length of the driver for ratchet.



Code

TE01

■ Parallel Pin

- For checking the direction of the guide drills.
- Ø 2.0 part : point & initial drill.
- Ø 2.7 part : pilot drill.

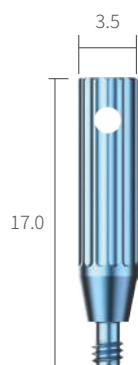


Code

PP03

- **Direction Pin**

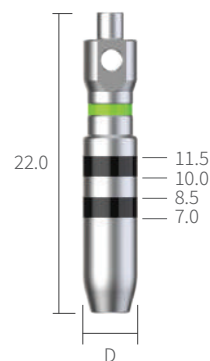
- Check the installation direction of the installed fixture.



Code
DP02

- Trial Pin

- Pin for checking tooth extraction socket diameter.
- Plan the diameter and length of the fixture to be installed.

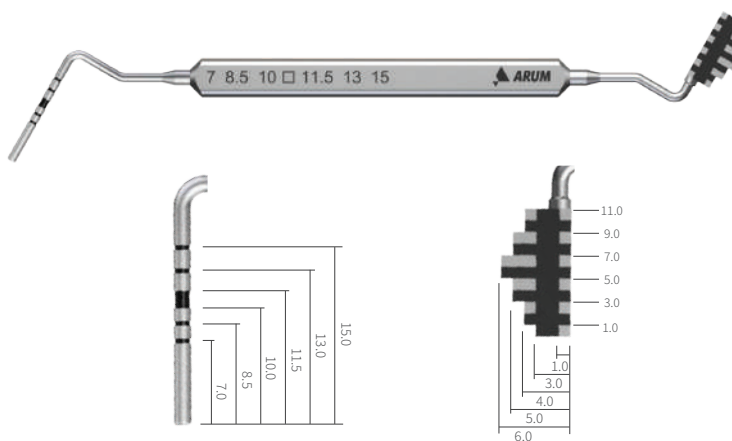


Fixture (Ø)	5.5	6.0	6.5
D	4.1	4.6	5.1
	TP5513	TP6013	TP6513

- **Depth Gauge**

- Consists of a drilling depth part and a special gauge part for measuring distance.

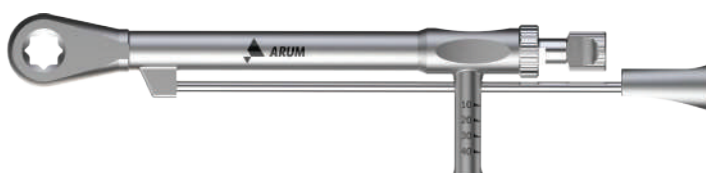
Code
DPG01



- **Torque Ratchet**

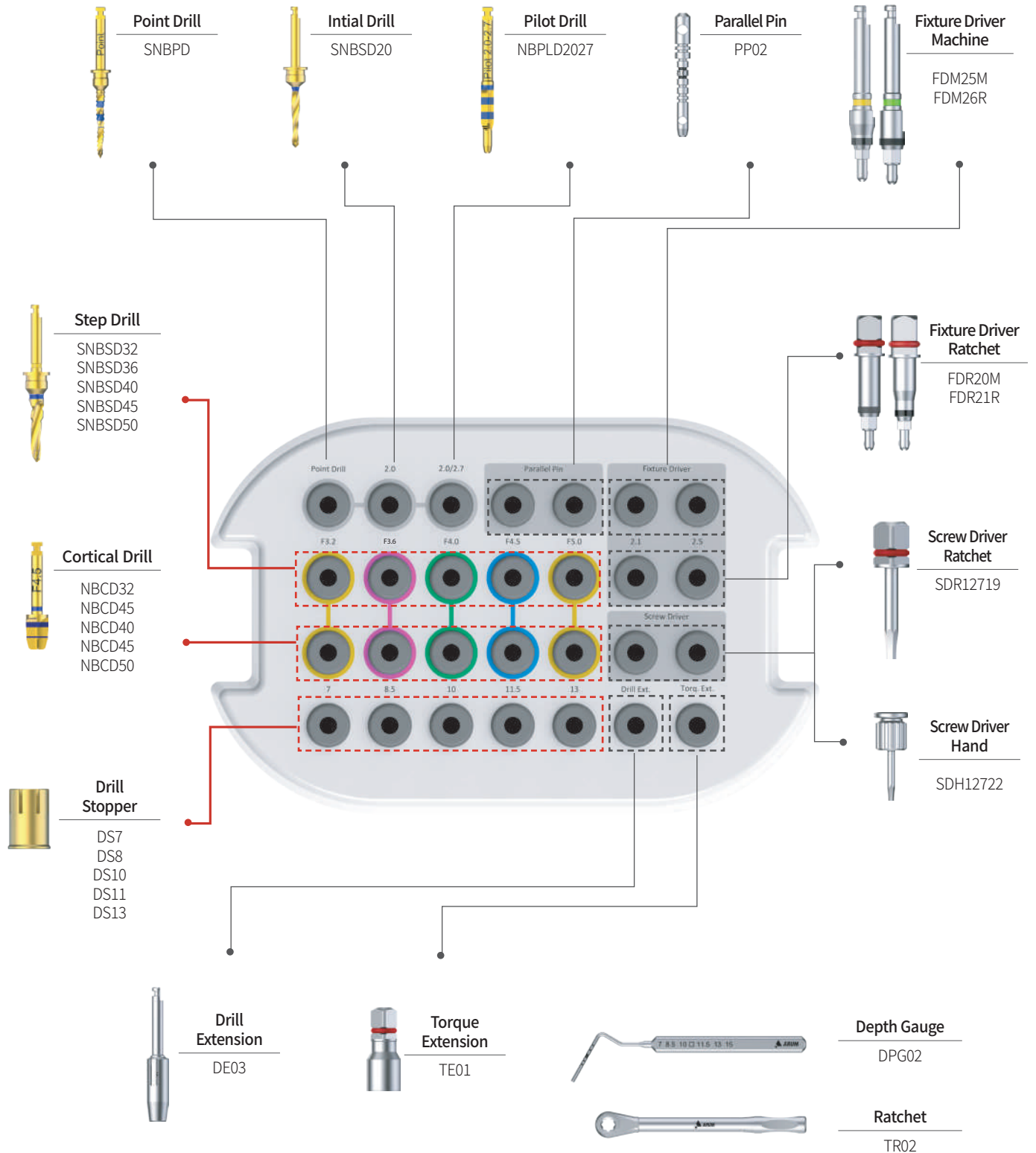
- Apply two-way torque using a switch.
- Use by connecting driver for ratchet.

Code
TR01

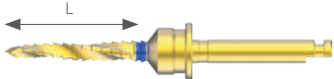
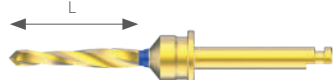


NB Essential Kit

※ Set Code : ESK-SET



Drill

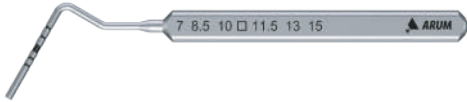
Product	D(Ø)	Image	L (mm)	Code
Point Drill	-		13.0	SNBPD
Initial Drill	2.0			SNBSD20
Pilot Drill	2.0/2.7			NBPLD2027

Product	D(Ø)	Image	L (mm)	Code
Step Drill	3.2		13.0	SNBSD32
	3.6			SNBSD36
	4.0			SNBSD40
	4.5			SNBSD45
	5.0			SNBSD50

Instruments

Product	Image	Drilling Length(L)	Code
Drill Stopper		7.0	DS7
		8.5	DS8
		10.0	DS10
		11.5	DS11
		13.0	DS13



Product	Image	Code
Depth Gauge		DPG02

Product	Image	Code
Ratchet		TR02

* Refer to P31, 32 for unlisted components.



Memo

ARUM



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