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WARANTEC

Inspiration from Pioneers

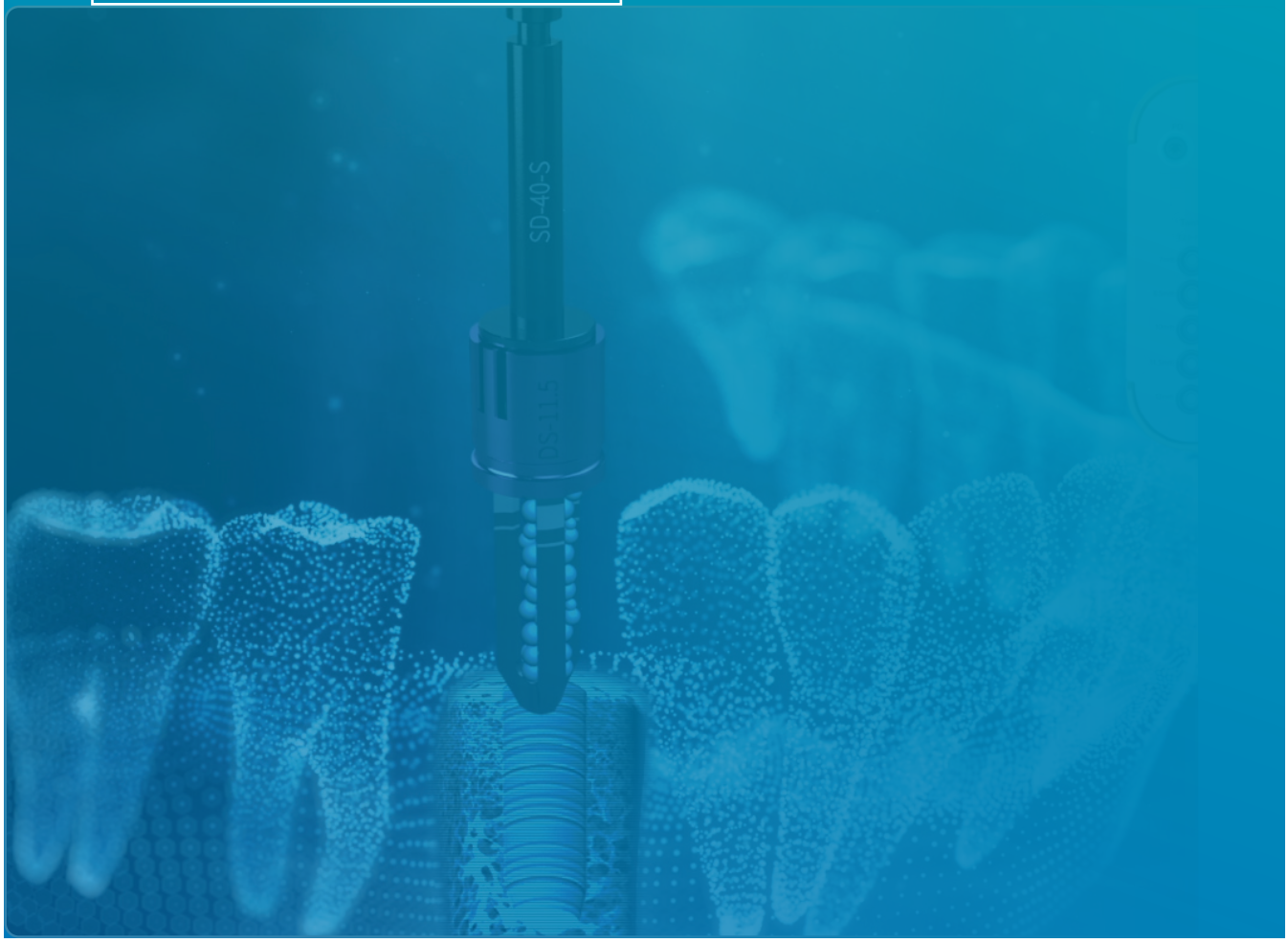
IU/UT/KIT CATALOGUE Ver.8.0

WARANTEC

Inspiration from Pioneers

THE FINE K-MED TECH

A DEEP COLLABORATION
AMONG WORLD-CLASS
PROFESSORS, CLINICIANS
AND ENGINEERS



NOTICE

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

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HISTORY

1995~2000	G7 Government project for developing domestic implants
2001	Warantec was established based on the results of G7 Project
2002	IT system launched
2006	Obtained the patent for the ONEBODY system in the U.S (Patent No. US 6,981,873,B2)
2008	Obtained the ISO 13485, CE, and FDA certifications
2015	IU system launched
2017	YUHAN, No.1 Pharmaceutical company in Korea invested capital
2018	UT system launched
2020	KAR kit and ESP kit launched
2021	WISE kit, WIRE kit, IUT kit, and PM kit launched
2022	Obtained the patents for the KAR Kit and ESP Kit

INTRODUCTION

Warantec, a leading dental implant company in Korea with a continued focus on R&D and clinical applications, was founded as a result of a 'next-generation artificial tooth development' research project supported by the Ministry of Health and Welfare as part of the Korean government's G7 Project in 1995 involving esteemed professors from the College of Dentistry of the Seoul National University, Yonsei University, and Catholic University.

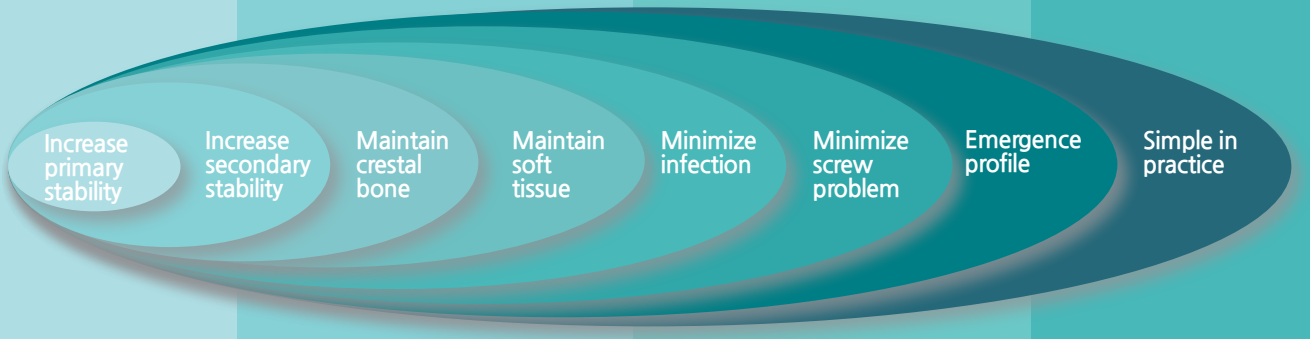
Warantec's implants showcase outstanding and differentiated design, surface treatment (S.L.A.), and metal processing technology recognized by the implant academia since the beginning of its development. It spearheads the development of Korean implant design and surface treatment technologies.

Warantec introduced the first one-body ONEBODY IMPLANT SYSTEM for the first time in Korea through continued R&D investment and quality innovation. It has enhanced the success rate of implant procedures through its groundbreaking 7° connection IT IMPLANT SYSTEM. Furthermore, Warantec's IU IMPLANT SYSTEM, which has the 11° connection ensuring compatibility and convenience, has been acclaimed as an embodiment of breakthrough technologies.

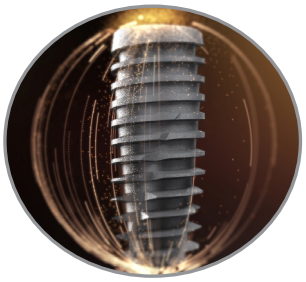
Warantec has established successful clinical track record since 2001 and has been recognized for its value in the global market by attracting investments. These are clear testaments to Warantec's emerging presence in implantology at home and abroad.

Inspiration from Pioneers

Points to Implement When Designing our Implant



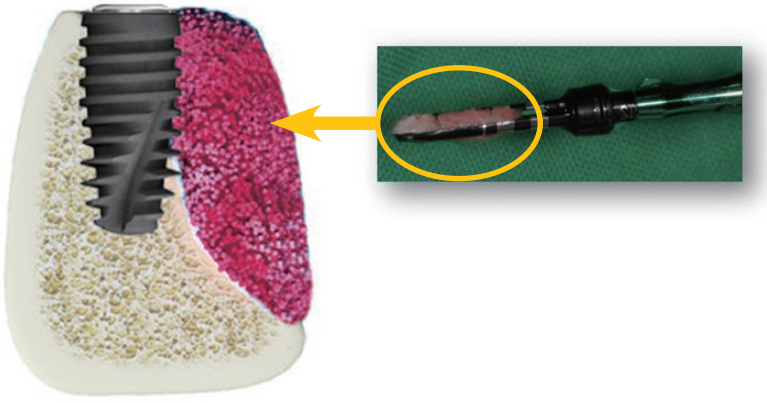
Bone Collecting Drill

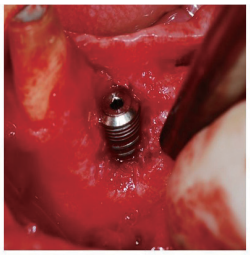


You can harvest enough autogenous bone for GBR while drilling.
The best bone for the patient for free.

Designated bone collecting drill of Warantec

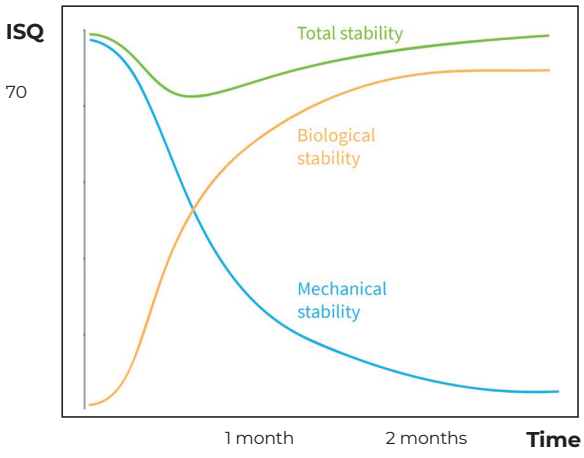
GBR





The autogenous bone that is collected with the thanksgiving(bone collecting) drill makes the most stable ossification, and also can reduce the cost.

Implant Stability



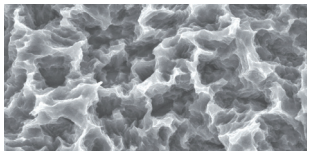
Macro-design Concept

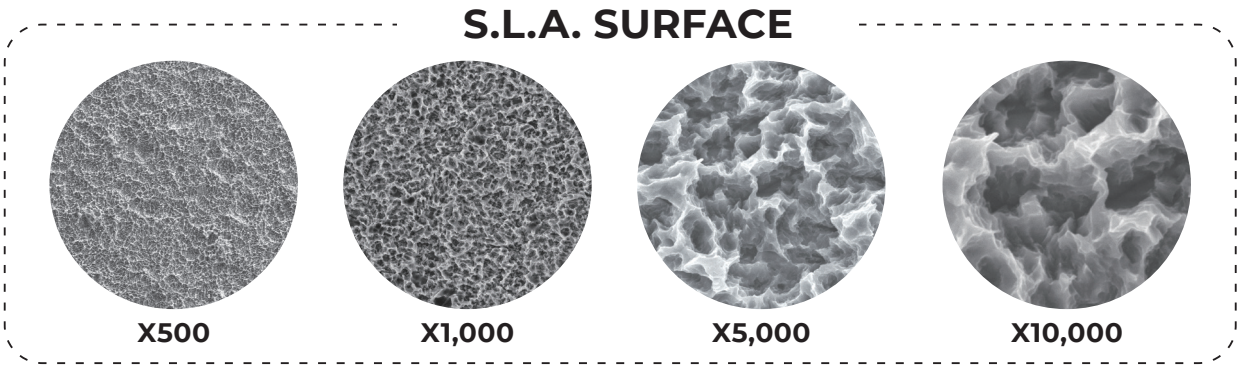
IU system has a combined design of straight and tapered, and UT system has micro-thread and progressive power thread design. Through these designs, each system can obtain the mechanically effective primary stability. After that, Warantec's certified SLA surface creates biologically stable osseointegration, and obtains quick secondary stability.

Surface Treatment

Warantec

S.L.A.

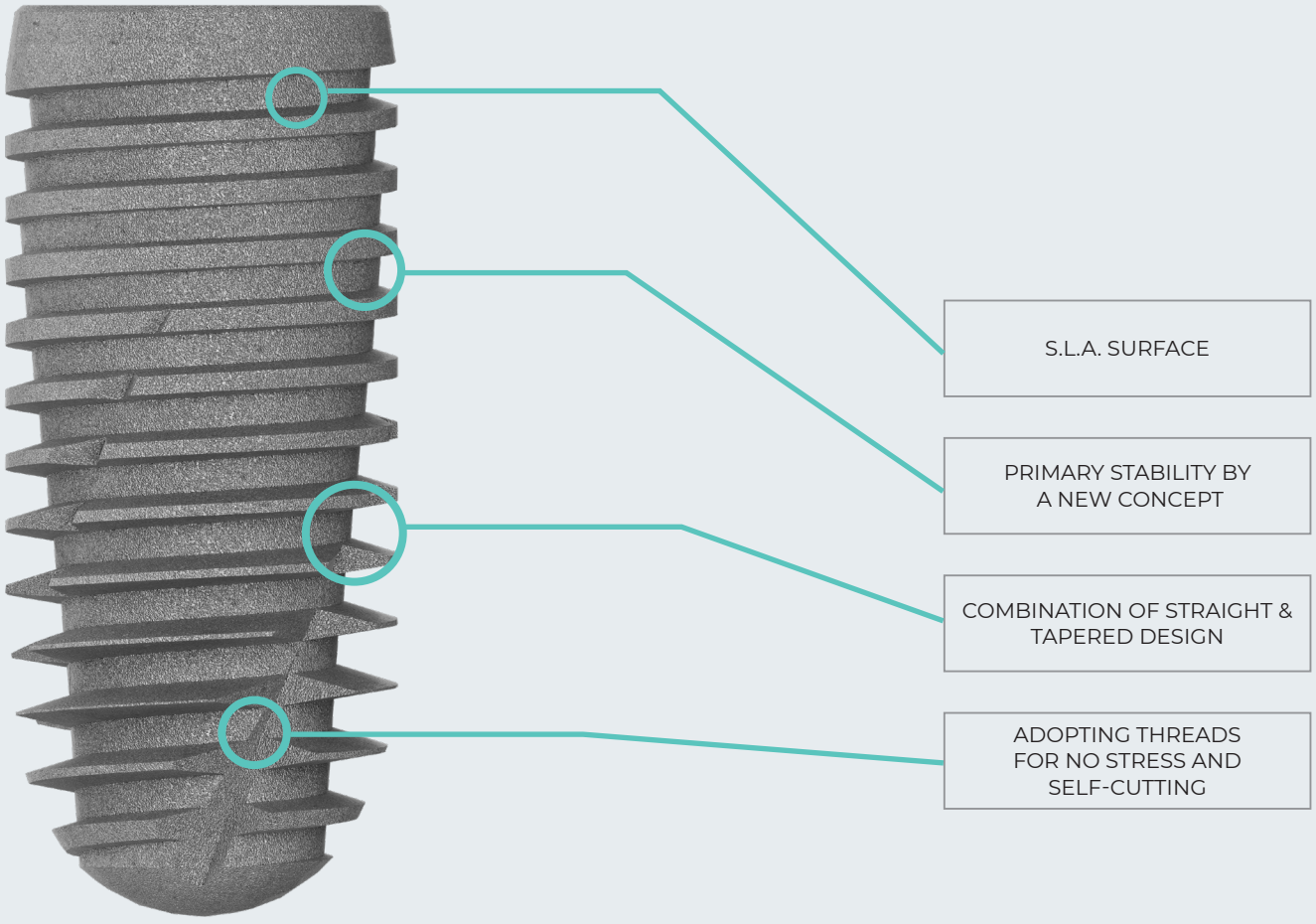




S.L.A. : **S**and-blast **L**arge-grit **A**cid etching

MEMO

IU IMPLANT


S.L.A. SURFACE
PRIMARY STABILITY BY
A NEW CONCEPT
COMBINATION OF STRAIGHT &
TAPERED DESIGN
ADOPTING THREADS
FOR NO STRESS AND
SELF-CUTTING

Characteristics of

IU IMPLANTS

IU implant fixture has a design in which the straight-line thread and tapered body shape are properly combined.
By placing the maximum compression point 3mm below the cortical bone (subcortical area), the fixture can minimize the bone resorption of the cortical bone.
Also, by applying the square thread on the upper part of the fixture (cortical & subcortical area), the system can obtain excellent primary stability even on the soft bone, and decrease stress on the cortical bone.

01

Submerged type, internal hex and 11° tapered connection structure.

02

Disperse stress effectively by applying squared thread on the top so it can restrain the absorption of the alveolar bone.

03

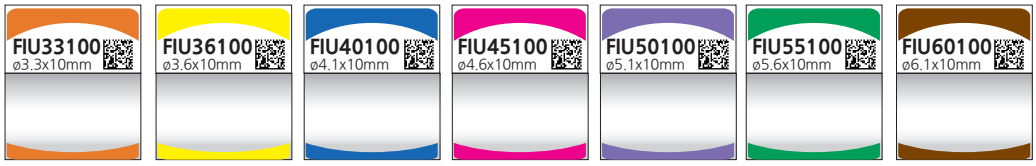
V-shaped thread at the bottom and optimized cutting-edge design for easier installation.

04

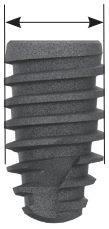
A body design to obtain good primary stability and proper stress distribution to prevent early bone resorption.

IU Implant Specification

	F3.3	F3.6	F4.0	F4.5	F5.0	F5.5	F6.0
Color Coding	ORANGE	YELLOW	BLUE	PINK	PURPLE	GREEN	BROWN



UNIT : mm

 **Platform Diameter**	3.1	3.4	3.8	4.3	4.8	5.3	5.8
 **Body Diameter**	3.3	3.6	4.1	4.6	5.1	5.6	6.1
 **Semi Octa Deimension**	2.1	2.1	2.5	2.5	2.5	2.5	2.5

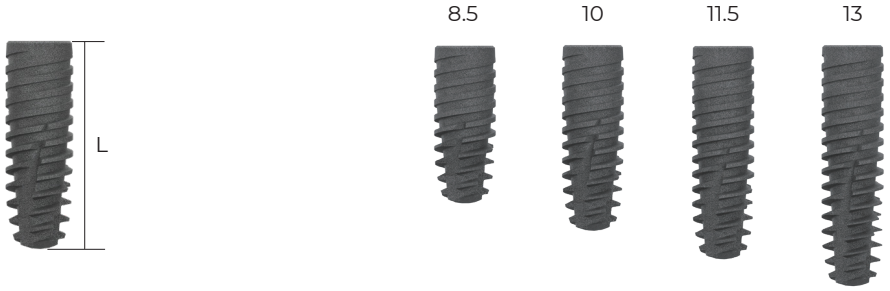
IU Implant Fixture

· Cover screw is included in the package.

UNIT : mm

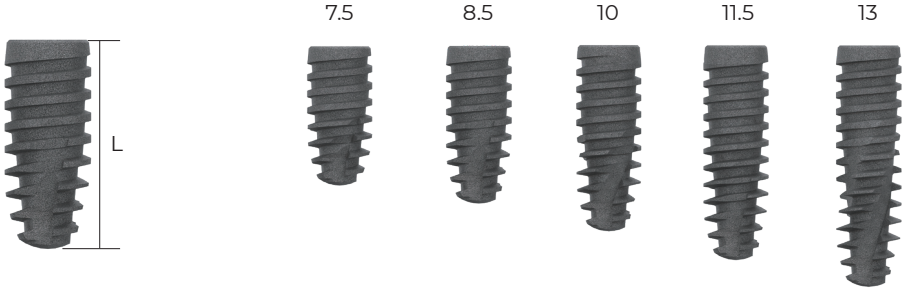
F3.3 [MINI]

Art. No.	Length
FIU33085	8.5
FIU33100	10
FIU33115	11.5
FIU33130	13



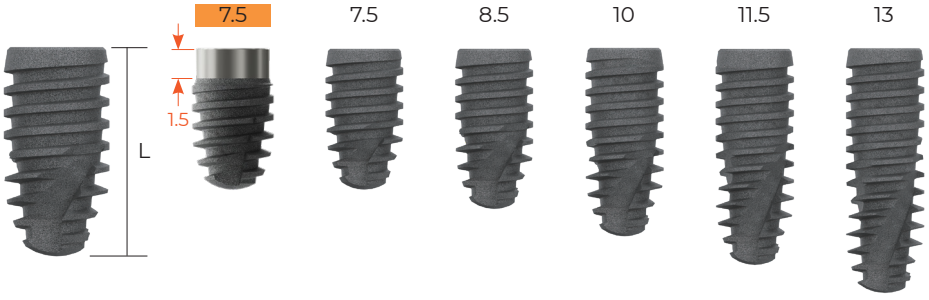
F3.6 [MINI]

Art. No.	Length
FIU36070	7.5
FIU36085	8.5
FIU36100	10
FIU36115	11.5
FIU36130	13



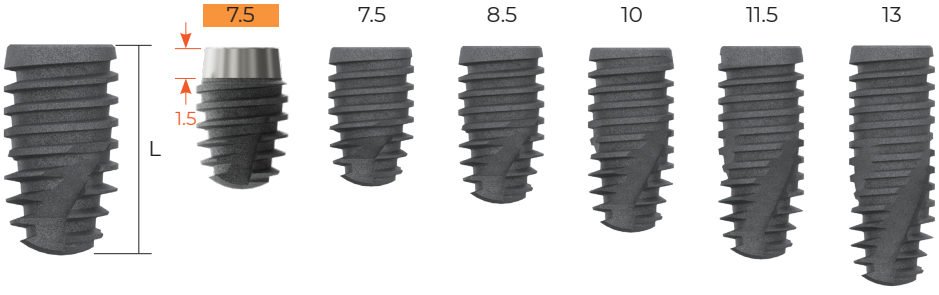
F4.0

Art. No.	Length
FIU40060	7.5
FIU40070	7.5
FIU40085	8.5
FIU40100	10
FIU40115	11.5
FIU40130	13



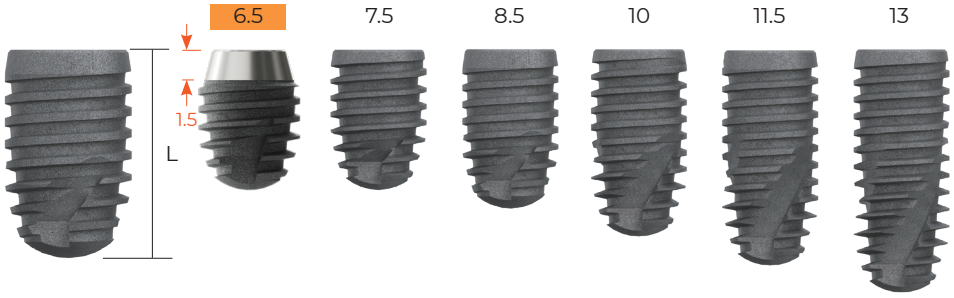
F4.5

Art. No.	Length
FIU45060	7.5
FIU45070	7.5
FIU45085	8.5
FIU45100	10
FIU45115	11.5
FIU45130	13



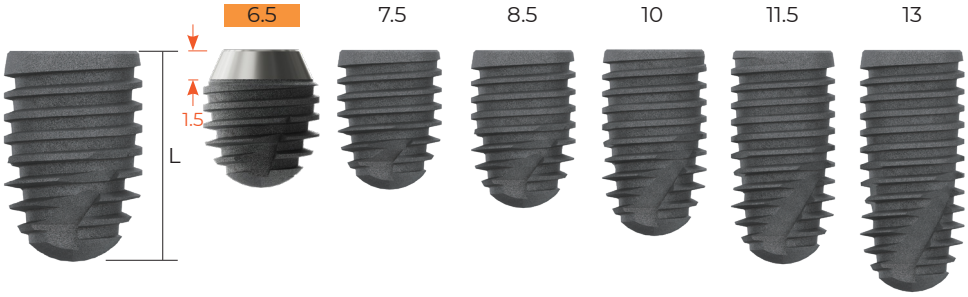
F5.0

Art. No.	Length
FIU50050	6.5
FIU50070	7.5
FIU50085	8.5
FIU50100	10
FIU50115	11.5
FIU50130	13



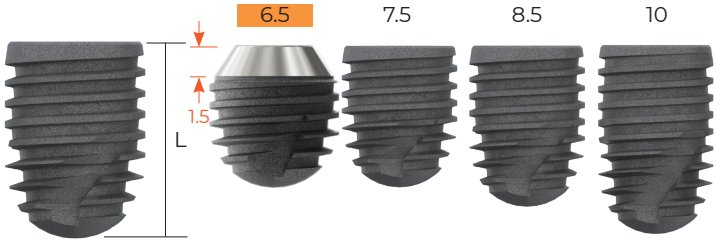
F5.5

Art. No.	Length
FIU55050	6.5
FIU55070	7.5
FIU55085	8.5
FIU50100	10
FIU55115	11.5
FIU55130	13



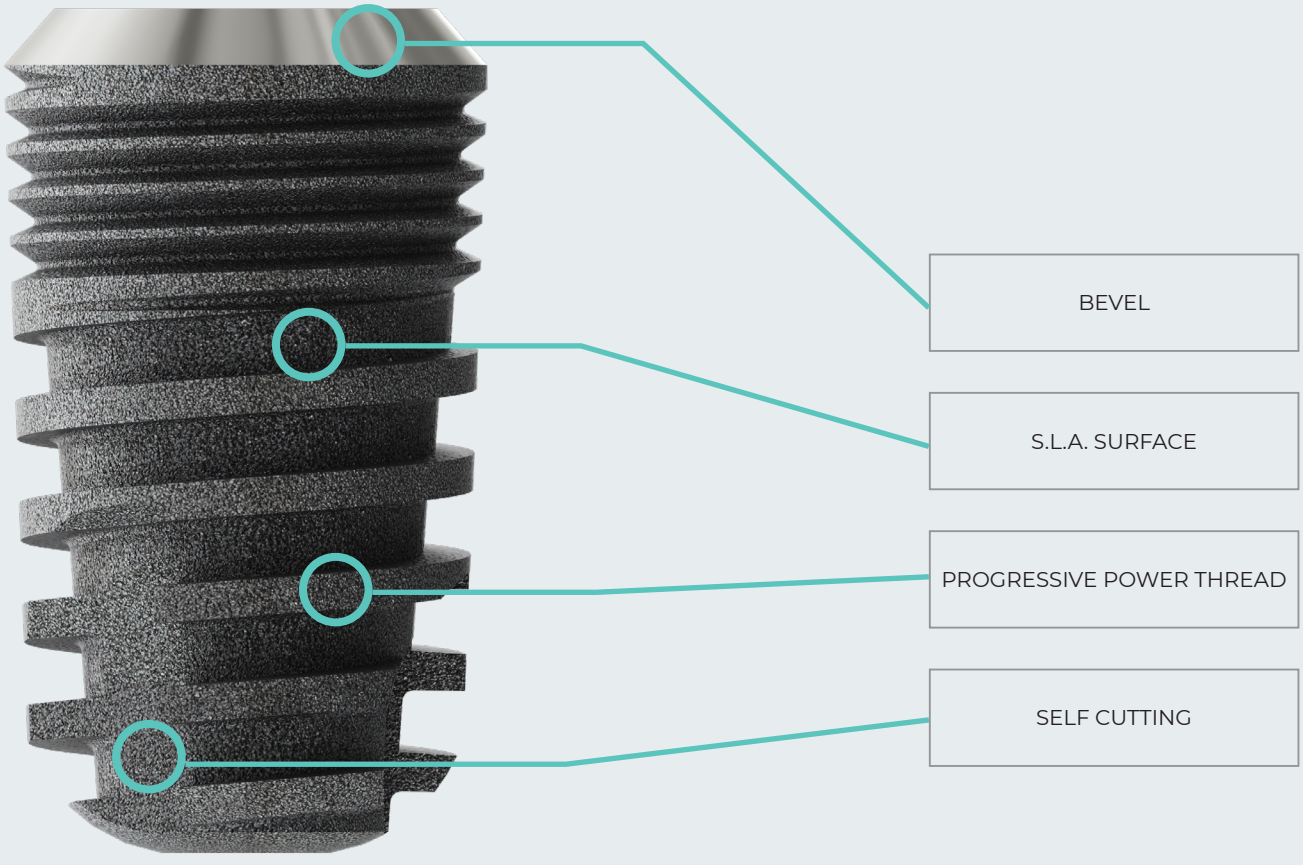
F6.0

Art. No.	Length
FIU60050	6.5
FIU60070	7.5
FIU60085	8.5
FIU60100	10



MEMO

UT IMPLANT



Characteristics of

UT IMPLANTS

UT implant system has a tapered body design of root form as a whole.
The Progressive power thread that gets deepened from 2° to 4° of the lower apex makes an excellent primary stability and effectively disperses stress caused by the square shape.
400μm micro threads increase the secondary stability and disperse the stress by increasing the bone density and widening the surface area in the marginal bone.

01

A submerged type implant with an internal hex and 11° internal conical joint connection structure.

02

Disperse stress effectively by applying micro-thread so it can restrain the absorption of the alveolar bone.

03

A progressive power thread and square thread shape can disperse the stress and strengthen primary stability closer to the apex.

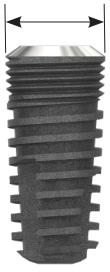
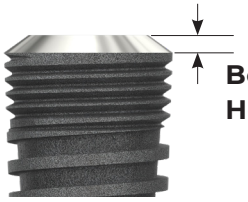
04

The root form shape and self-cutting edges increase the initial implantation stability and make the operation easier.

UT Implant Specification

	F3.6	F4.3	F4.8	F5.3	F6.3
Color Coding	YELLOW	BLUE	PINK	PURPLE	BROWN
					

UNIT : mm

 **Platform Diameter**	3.7	4.3	4.8	5.3	6.3
 **Bevel Height**	0.5	0.5	0.5	0.5	0.5
 **Hex Dimension**	2.1	2.5	2.5	2.5	2.5

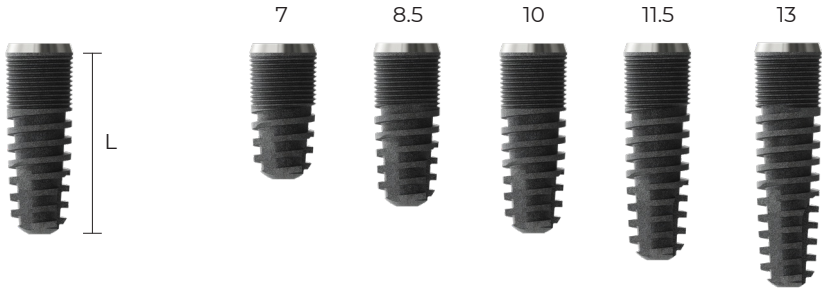
UT Implant Fixture

· Cover screw is included in the package.

UNIT : mm

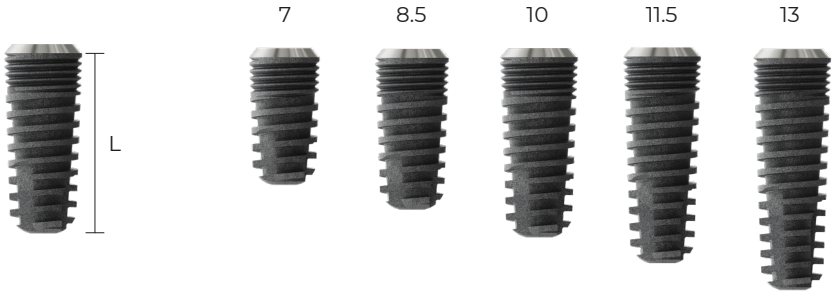
F3.6 [MINI]

Art. No.	Length
FUT36070	7
FUT36085	8.5
FUT36100	10
FUT36115	11.5
FUT36130	13



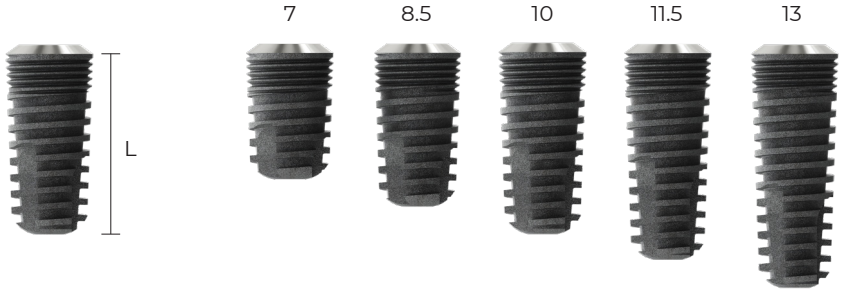
F4.3

Art. No.	Length
FUT43070	7
FUT43085	8.5
FUT43100	10
FUT43115	11.5
FUT43130	13



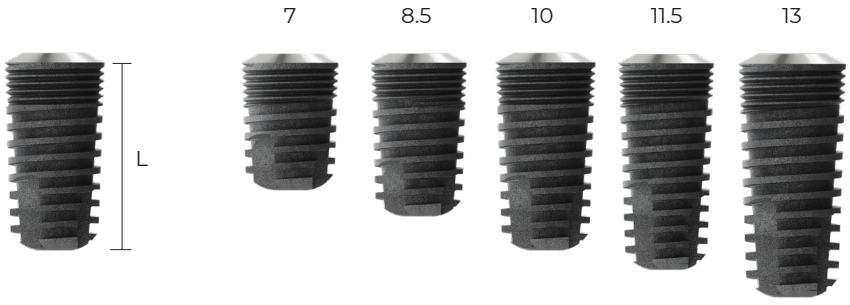
F4.8

Art. No.	Length
FUT48070	7
FUT48085	8.5
FUT48100	10
FUT48115	11.5
FUT48130	13



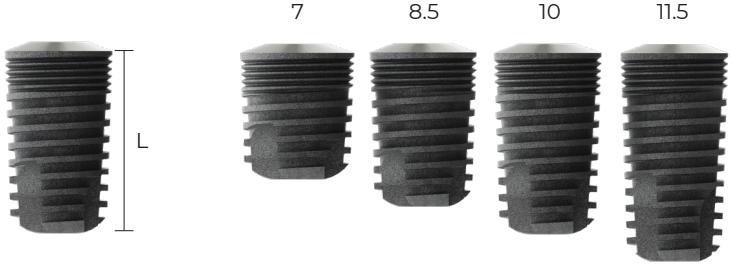
F5.3

Art. No.	Length
FUT53070	7
FUT53085	8.5
FUT53100	10
FUT53115	11.5
FUT53130	13



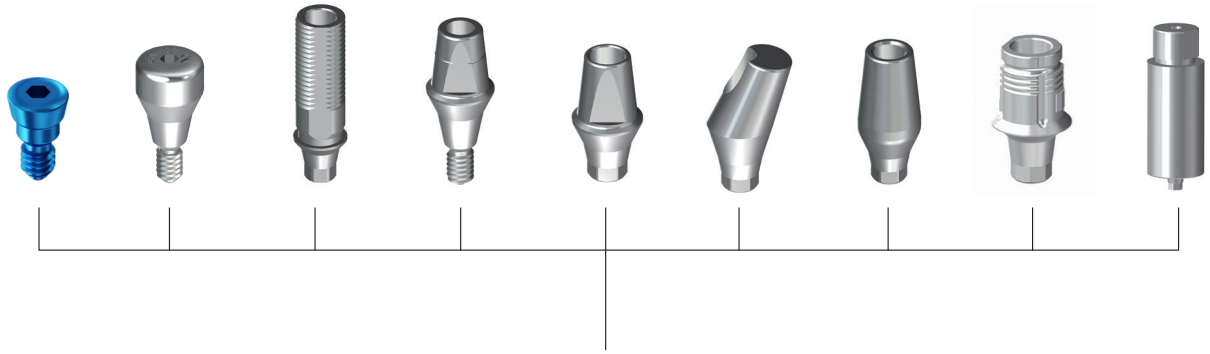
F6.3

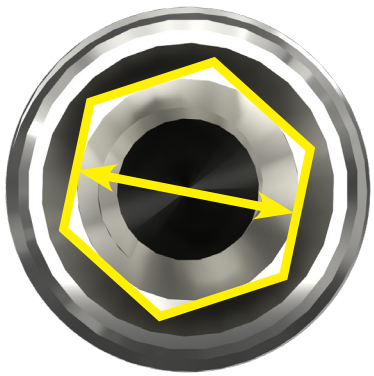
Art. No.	Length
FUT63070	7
FUT63085	8.5
FUT63100	10
FUT63115	11.5



Common Platform for both IU and UT Implants

Both IU and UT Implants have 11-degree internal hexagonal connecting structure.





IU IMPLANT UT IMPLANT

Coding

Applicable Abutment and Shape

Mini

Hex

Non-Hex

Mini Hex

Mini Non-Hex

Mini - IU Implant : F3.3~F3.6
UT Implant : F3.6

Standard

Hex

Non-Hex

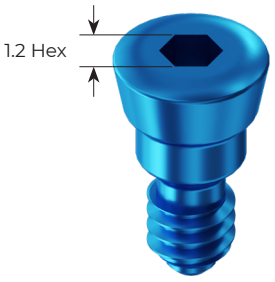
Standard Hex

Standard Non-Hex

Standard - IU Implant : F4.0~F6.0
UT Implant : F4.3~F6.3

Cover Screw

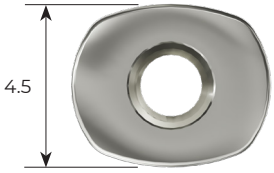
- Assemble with 1.2 hex driver.
- Recommended tightening torque : under 10Ncm
- Package components : screw

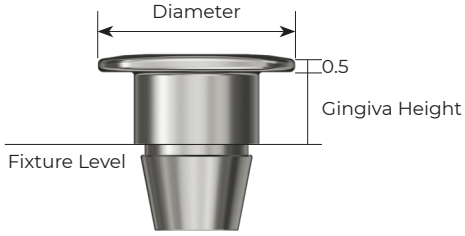


Art. No.	Type
IUCSA	M1.6
IUCS	M2.0

Umbrella Cover Screw

- Used in surgery accompanied by GBR and various bone augmentation procedures.
- Retaining the bone graft on the implant platform.
- Provides free direction according to the purpose of the practitioner.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : under 10Ncm
- Package components : Body + Screw

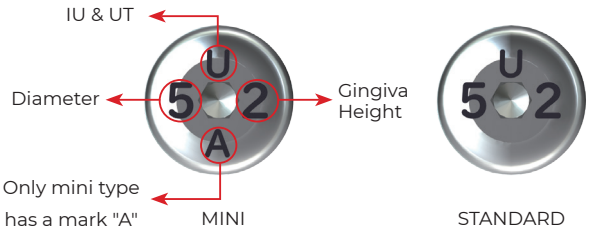


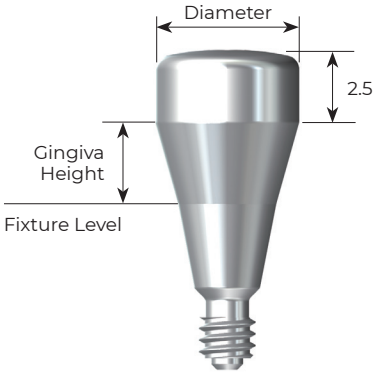


Art. No.	Diameter	G/H	Screw	Application
IUUCS5510N	5.5	1.0	UCS05	Standard
IUUCS5520N	5.5	2.0	UCS05	Standard
IUUCS5530N	5.5	3.0	UCS20	Standard
IUUCS6510N	6.5	1.0	UCS05	Standard
IUUCS6520N	6.5	2.0	UCS05	Standard
IUUCS6530N	6.5	3.0	UCS20	Standard

Healing Abutment

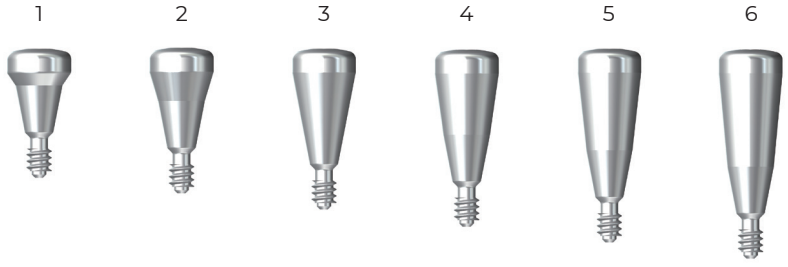
- Assemble with 1.2 hex driver.
- Recommended tightening torque : under 10Ncm
- Package components : Abutment





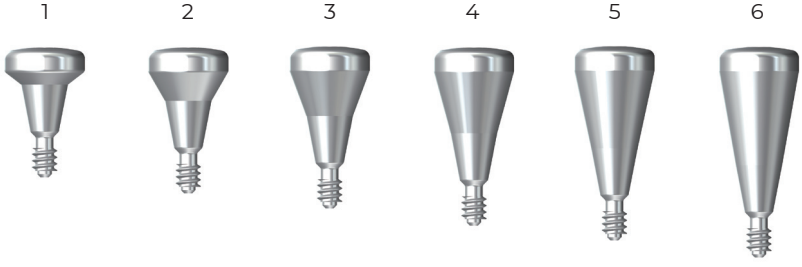
HA 4.0 [MINI] (D 3.95)

Art. No.	G/H
IUHA4010A	1.0
IUHA4020A	2.0
IUHA4030A	3.0
IUHA4040A	4.0
IUHA4050A	5.0
IUHA4060A	6.0



HA 5.0 [MINI] (D 4.95)

Art. No.	G/H
IUHA5010A	1.0
IUHA5020A	2.0
IUHA5030A	3.0
IUHA5040A	4.0
IUHA5050A	5.0
IUHA5060A	6.0



HA 4.0 (D 3.95)

Art. No.	G/H
IUHA4010	1.0
IUHA4020	2.0
IUHA4030	3.0
IUHA4040	4.0
IUHA4050	5.0
IUHA4060	6.0

HA 5.0 (D 4.95)

Art. No.	G/H
IUHA5010	1.0
IUHA5020	2.0
IUHA5030	3.0
IUHA5040	4.0
IUHA5050	5.0
IUHA5060	6.0

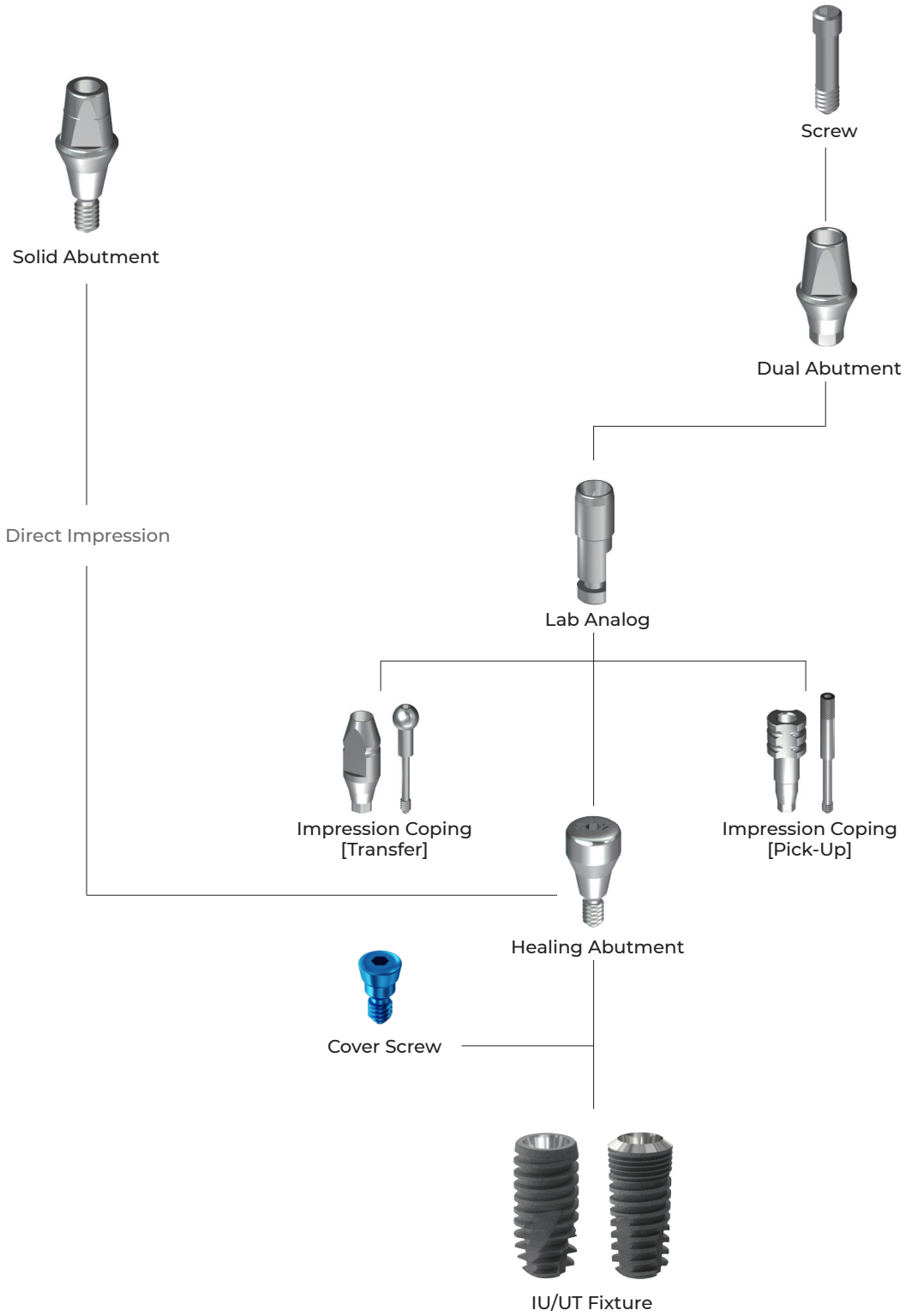
HA 6.0 (D 5.95)

Art. No.	G/H
IUHA6010	1.0
IUHA6020	2.0
IUHA6030	3.0
IUHA6040	4.0
IUHA6050	5.0
IUHA6060	6.0

HA 7.0 (D 6.95)

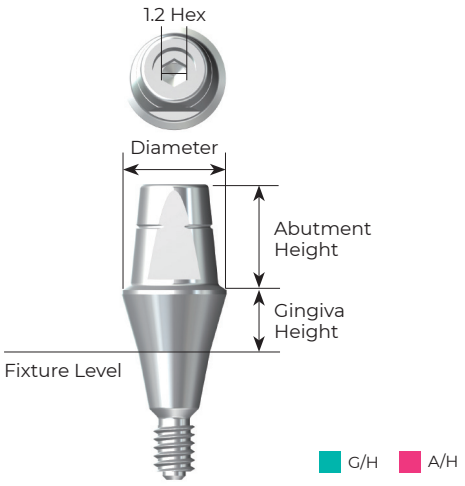
Art. No.	G/H
IUHA7010	1.0
IUHA7020	2.0
IUHA7030	3.0
IUHA7040	4.0
IUHA7050	5.0
IUHA7060	6.0

Solid / Dual


Screw
Solid Abutment
Dual Abutment
Direct Impression
Lab Analog
Impression Coping
[Transfer]
Impression Coping
[Pick-Up]
Healing Abutment
Cover Screw
IU/UT Fixture

SB Abutment (Solid)

- Abutment for the cement maintenance type prosthetics.
- Direct impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package components : Abutment



SB 4.0
(D 3.95)

IUSB4015A IUSB4017A	IUSB4025A IUSB4027A	IUSB4035A IUSB4037A	IUSB4045A IUSB4047A	IUSB4055A IUSB4057A	IUSB4065A IUSB4067A

SB 4.0
(D 3.95)

IUSB4015 IUSB4017	IUSB4025 IUSB4027	IUSB4035 IUSB4037	IUSB4045 IUSB4047	IUSB4055 IUSB4057	IUSB4065 IUSB4067

SB 5.0
(D 4.95)

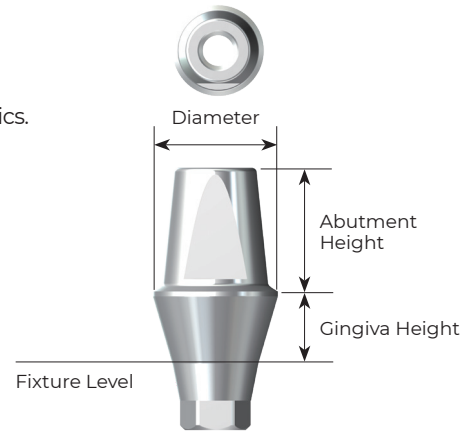
IUSB5015 IUSB5017	IUSB5025 IUSB5027	IUSB5035 IUSB5037	IUSB5045 IUSB5047	IUSB5055 IUSB5057	IUSB5065 IUSB5067

SB 6.0
(D 5.95)

IUSB6015 IUSB6017	IUSB6025 IUSB6027	IUSB6035 IUSB6037	IUSB6045 IUSB6047	IUSB6055 IUSB6057	IUSB6065 IUSB6067

SB AButment (Dual)

- Abutment for the cement & screw maintenance type prosthetics.
- Fixture level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package Components : Abutment + Screw



G/H A/H

SB 4.0 (D 3.95)

IUSB4015HA IUSB4025HA IUSB4035HA IUSB4045HA IUSB4055HA IUSB4065HA
IUSB4017HA IUSB4027HA IUSB4037HA IUSB4047HA IUSB4057HA IUSB4067HA

SB 4.0 (D 3.95)

IUSB4015NA IUSB4025NA IUSB4035NA IUSB4045NA IUSB4055NA IUSB4065NA
IUSB4017NA IUSB4027NA IUSB4037NA IUSB4047NA IUSB4057NA IUSB4067NA

SB 4.0 (D 3.95)

IUSB4015H IUSB4025H IUSB4035H IUSB4045H IUSB4055H IUSB4065H
IUSB4017H IUSB4027H IUSB4037H IUSB4047H IUSB4057H IUSB4067H

G/H A/H

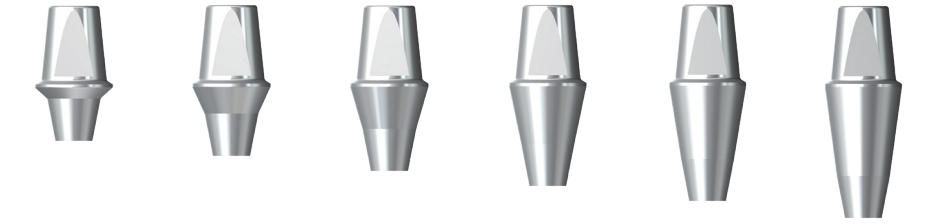
SB 4.0
(D 3.95)

IUSB4015N IUSB4017N | IUSB4025N IUSB4027N | IUSB4035N IUSB4037N | IUSB4045N IUSB4047N | IUSB4055N IUSB4057N | IUSB4065N IUSB4067N

SB 5.0
(D 4.95)

IUSB5015H IUSB5017H | IUSB5025H IUSB5027H | IUSB5035H IUSB5037H | IUSB5045H IUSB5047H | IUSB5055H IUSB5057H | IUSB5065H IUSB5067H

SB 5.0
(D 4.95)



IUSB5015N IUSB5017N | IUSB5025N IUSB5027N | IUSB5035N IUSB5037N | IUSB5045N IUSB5047N | IUSB5055N IUSB5057N | IUSB5065N IUSB5067N

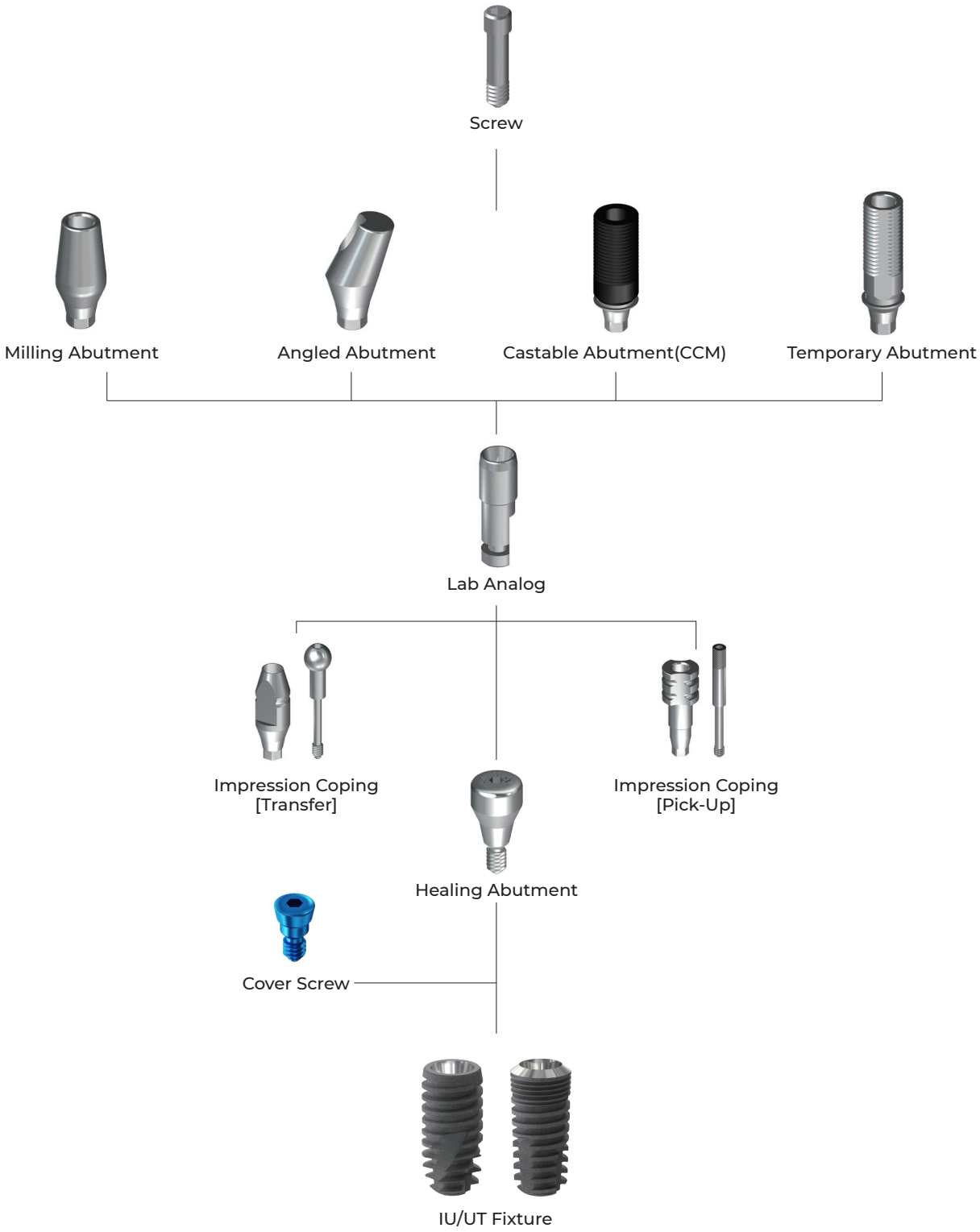
SB 6.0
(D 5.95)

IUSB6015H IUSB6017H | IUSB6025H IUSB6027H | IUSB6035H IUSB6037H | IUSB6045H IUSB6047H | IUSB6055H IUSB6057H | IUSB6065H IUSB6067H

SB 6.0
(D 5.95)

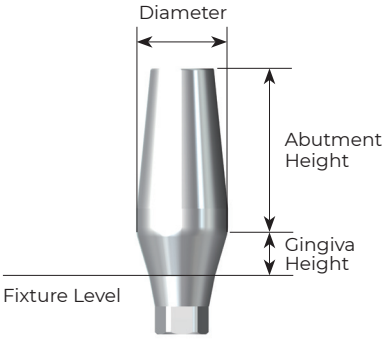
IUSB6015N IUSB6017N | IUSB6025N IUSB6027N | IUSB6035N IUSB6037N | IUSB6045N IUSB6047N | IUSB6055N IUSB6057N | IUSB6065N IUSB6067N

Milling / Angled / Castable / Temporary



Milling Abutment

- Abutment for the cement & screw maintenance type prosthetics.
- Easy margin formation.
- Fixture level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package components : Abutment + Screw

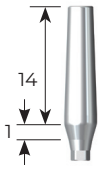


IUASLA IUASL

G/H A/H

MA 3.9 (D 3.9)

MA 3.9 (D 3.9)



IUMA39LEA
IUMA39LE

MA 4.0 (D 3.95)

MA 5.0 (D 4.95)

MA 5.0 (D 4.95)

MA 6.0 (D 5.95)

IUMA4017HA
IUMA5017HA
IUMA5017H
IUMA6017H

IUMA4027HA
IUMA5027HA
IUMA5027H
IUMA6027H

IUMA4037HA
IUMA5037HA
IUMA5037H
IUMA6037H

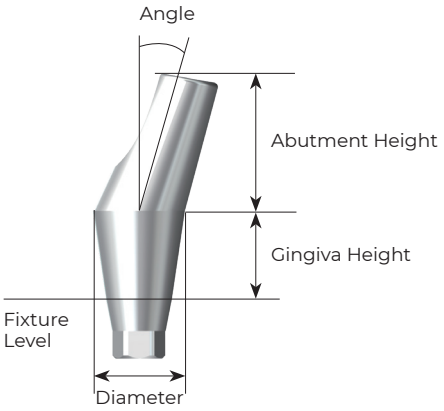
IUMA4047HA
IUMA5047HA
IUMA5047H
IUMA6047H

Angled Abutment

- Abutment for the cement & screw maintenance type prosthetics.
- Compensates the fixture's implantation angle by 15° or 20°.
- Optional usage for various oral environments.
- Fixture level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package components : Abutment + Screw

G/H A/H

AA 4.0_15° (D 4.0)					
	IUAA1526HA IUAA1528HA	IUAA1536HA IUAA1538HA	IUAA1546HA IUAA1548HA	IUAA1556HA IUAA1558HA	IUAA1566HA IUAA1568HA
AA 4.0_20° (D 4.0)					
	IUAA2026HA IUAA2028HA	IUAA2036HA IUAA2038HA	IUAA2046HA IUAA2048HA	IUAA2056HA IUAA2058HA	IUAA2066HA IUAA2068HA



G/H A/H

AA 5.0_15°
(D 5.0)

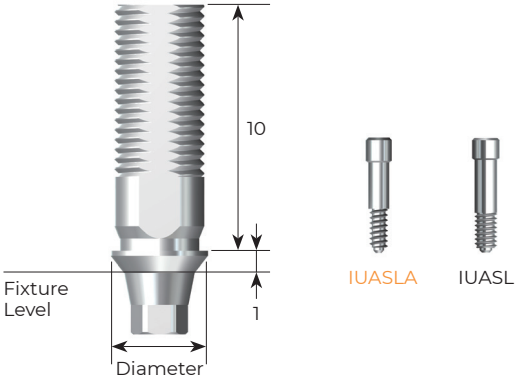
IUAA1526H	IUAA1536H	IUAA1546H	IUAA1556H	IUAA1566H
IUAA1528H	IUAA1538H	IUAA1548H	IUAA1558H	IUAA1568H

AA 5.0_20°
(D 5.0)

IUAA2026H	IUAA2036H	IUAA2046H	IUAA2056H	IUAA2066H
IUAA2028H	IUAA2038H	IUAA2048H	IUAA2058H	IUAA2068H

Temporary Abutment

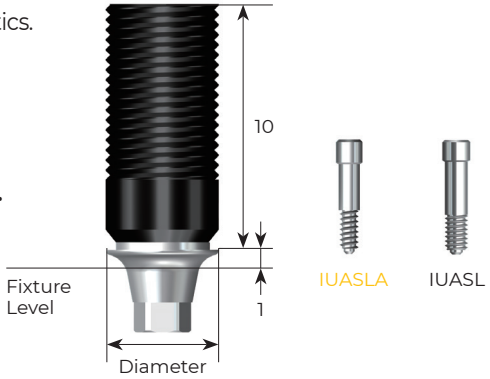
- Abutment for the cement & screw maintenance type temporary prosthetics.
- Cut the cylinder when producing temporary prosthetics.
- Fixture level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



Art. No.	Diameter	Type
IUTCHA	3.9	Hex
IUTCA	3.9	Non-Hex
IUTCH	3.9	Hex
IUTC	3.9	Non-Hex

Castable Abutment (CCM)

- Abutment for the cement & screw maintenance prosthetics
- Castable for the nonprecious alloy, Use it for producing the customized prosthetics.
- Different colors per shape : Hex(Black), Non-hex(White)
- Fixture level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Packaged component : Abutment + Screw

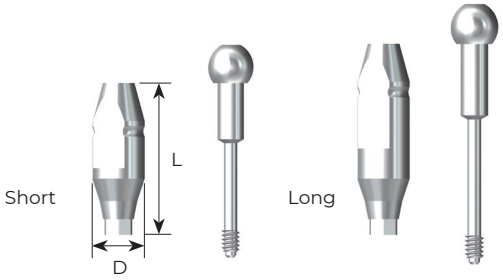


Art. No.	Diameter	Type	Color
IUCA39CHA	3.9	Hex	Black
IUCA39CA	3.9	Non-Hex	White
IUCA39CH	3.9	Hex	Black
IUCA39C	3.9	Non-Hex	White

Impression Post Transfer type

(For Closed-Tray Technique)

- Cylinder shape makes it easier to transfer.
- Assemble with 1.2 hex driver.
- Package components : Impression Coping + Impression Screw

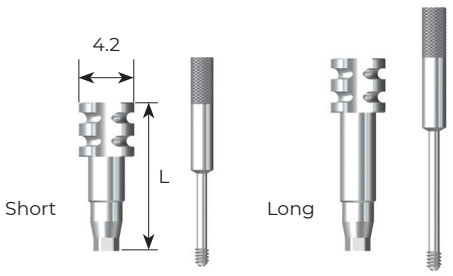


ART. NO.	Diameter	Length	Application	Included Screw
IUPTSA	4.0	11.6	IUHA4010A-IUHA4030A	IUSPTSA
IUPTLA	4.0	14.6	IUHA4040A-IUHA4060A	IUSPTLA
IUPTS40	4.0	11.6	IUHA4010-IUHA4030	IUSPTS40
IUPTL40	4.0	14.6	IUHA4040-IUHA4060	IUSPTL40
IUPTS	5.0	11.6	IUHA5010-IUHA5030	IUSPTS
IUPTL	5.0	14.6	IUHA5040-IUHA5060	IUSPTL

Impression Post Pick-up type

(For Open-Tray Technique)

- Rake shape for more precise and stable impression taking.
- Assemble by hand using 1.2 hex driver.
- Package components : Impression Coping + Impression Screw



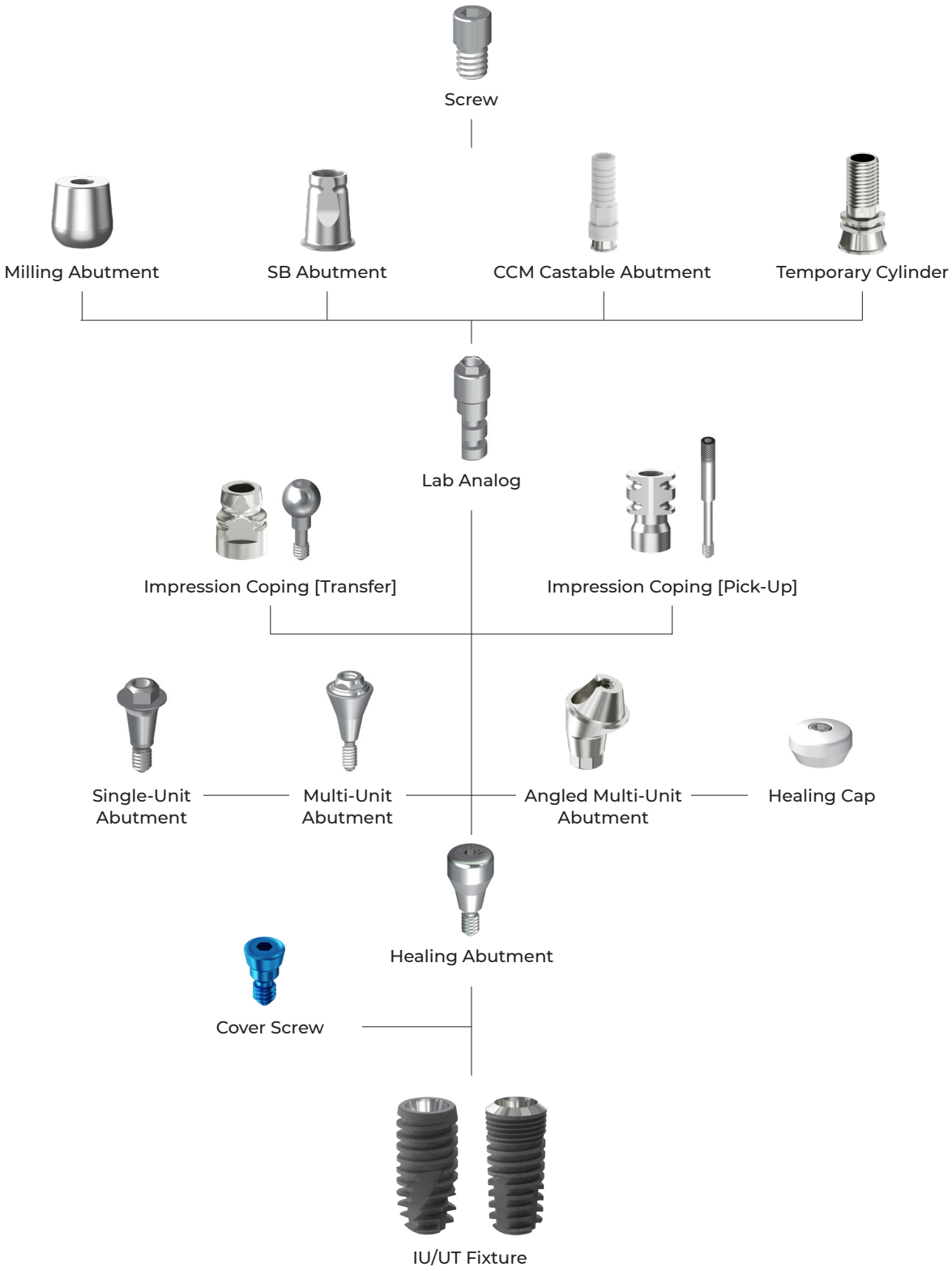
ART. NO.	Length	Type	Included Screw
IUPPSA	12.2	Hex	IUSPPSA
IUPPLA	16.2	Hex	IUSPPLA
IUPPS	12.2	Hex	IUSPPS
IUPPL	16.2	Hex	IUSPPL

Lab Analog

- Lab analog for the fixture level impression.
- Use it instead of a fixture when taking the impression.
- Optional usage according to the diameter of the fixture of F3.6 / F4.0 - F6.3.
- Package components : Lab analog

ART. NO.	Type
IUANM	Hex
IUANR	Hex

InEx Prosthetics



InEx Prosthetics

Applicable Abutment and Coding

Hex

Non-Hex

S4 stands for
Single-unit Abutment
D4.0

Hex

S5 stands for
Single-unit Abutment
D5.0

Hex

Non-Hex

M5 stands for
Multi-unit Abutment
D5.0

Non-Hex

AM5 stands for
Angled Multi-unit Abutment
D5.0

IU / UT InEx Prosthetics Chart

Single & Multi Unit

SMUA 4.0 — Single & Multi Unit

Hex

G/H	Art No.
1.0	IUMU4010A
2.0	IUMU4020A
3.0	IUMU4030A
4.0	IUMU4040A
5.0	IUMU4050A
6.0	IUMU4060A

Non Hex

G/H	Art No.
1.0	IUMU4010
2.0	IUMU4020
3.0	IUMU4030
4.0	IUMU4040
5.0	IUMU4050
6.0	IUMU4060

SUA 5.0 — Single Unit

Hex

G/H	Art No.
1.0	IUSU5010
2.0	IUSU5020
3.0	IUSU5030
4.0	IUSU5040
5.0	IUSU5050
6.0	IUSU5060

MUA 5.0 — Multi Unit

Non Hex

G/H	Art No.
1.0	IUMU5010
2.0	IUMU5020
3.0	IUMU5030
4.0	IUMU5040
5.0	IUMU5050
6.0	IUMU5060

MUAA 5.0 — Angled Multi-unit

Ø 5.0 (15°) G/H	Art No.	Ø 5.0 (15°) G/H	Art No.
2.5	IUMUAA1625HA	2.5	IUMUAA1625H
3.5	IUMUAA1635HA	3.5	IUMUAA1635H
4.5	IUMUAA1645HA	4.5	IUMUAA1645H

Ø 5.0 (30°) G/H	Art No.	Ø 5.0 (30°) G/H	Art No.
2.0	IUMUAA3030HA	2.0	IUMUAA3030H
4.0	IUMUAA3040HA	4.0	IUMUAA3040H
5.0	IUMUAA3050HA	5.0	IUMUAA3050H

Impression

Closed-Tray

Open-Tray

	Transfer Type	Pick-Up Type
Hex	IC0MUPT40SS	IC0MUPP40H
	IC0MUPT40S	
	IC0MUPT40L	

Screw Included

Closed-Tray

Open-Tray

	Transfer Type	Pick-Up Type
Hex	IC0MUPTSS	IC0MIPP43H
	IC0MUPTS	
	IC0MUPTL	

Screw Included

Closed-Tray

	Transfer Type
Non-Hex	IC0MUPT43SS
	IC0MUPT43S
	IC0MUPT43L

Screw Included

Open-Tray

	Pick-Up Type
Non-Hex	IC0MIPP43

Screw Included

Analog

Lab Analog	Digital Lab Analog
 IC0MAN40H	 MUDAN40
 IC0SAN50H	 SUDAN50
 IC0MAN43	 MUDAN50N

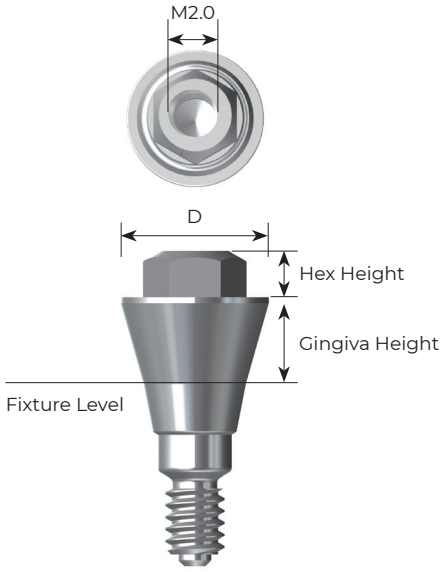
Temporar

38

ry Cylinder	Milling & SB & CCM	Scan body	TI-base		Plastic cap	MUA grip	Adapter	Etc. Instrument
			Hex	Non-Hex				
 Hex I0MUTC40H	SB  A/H: 8 / Hex: MUSB45H CCM  A/H / Hex: I0MUCC40H	 MUSCT40S MUSCT40 MUSCT40L	 MUTB45SHS MUTB45SH		 IC0MUHC50	 IC0MUPC40	 HA-HHA  RA-HHA-S RA-HHA-L RA-HHA-LL	
 Non-Hex I0MUTC40	SB  A/H / Non-Hex: MUSB45N CCM  A/H / Non-Hex: I0MUCC40			 MUTB45TNS MUTB45TN				
 Hex I0SUTC43H	Milling  Hex: I0MUMA SB   I50MUTC Hex: SUSB55H CCM  Hex: I0SUCC50H	 MUSCT50S MUSCT50 MUSCT50L	 SUTB58SHS SUTB58SH		 IC0MUHC60	 IC0MUPC50	 HA-HH  RA-HH-S RA-HH-L RA-HH-LL	Drill Extension  WDE Shank Adapter  RA-HS-S RA-HS-L
 Non-Hex I0MUTC43	Milling  Non-Hex: I0MUMAN SB  Non-Hex: MUSB55N CCM  Non-Hex: I0MUCC43	 MUSCT50NS MUSCT50N MUSCT50NL		 MUTB55TS MUTB55T  MUTB55TL		 Grip : MUAAGR	 HD-TW-L	

Single & Multi-Unit Abutment

- Abutment for the screw maintenance type prosthetics in a single case.
- Abutment level impression.
- Use the exclusive outer adapter for the single-unit abutment.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package components : Abutment + Grip + Healing Cap



G/H

SMUA4.0
(D 3.95)

SMUA4.0
(D 3.95)

IUMU4010A	IUMU4020A	IUMU4030A	IUMU4040A	IUMU4050A	IUMU4060A
IUMU4010	IUMU4020	IUMU4030	IUMU4040	IUMU4050	IUMU4060

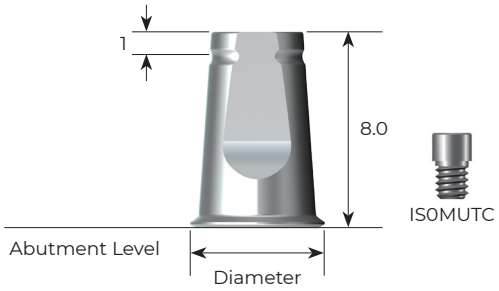
Healing Cap : IC0MUHC50

Grip : IC0MUPC40

Healing Cap and Grip are included in the product package

SB Abutment

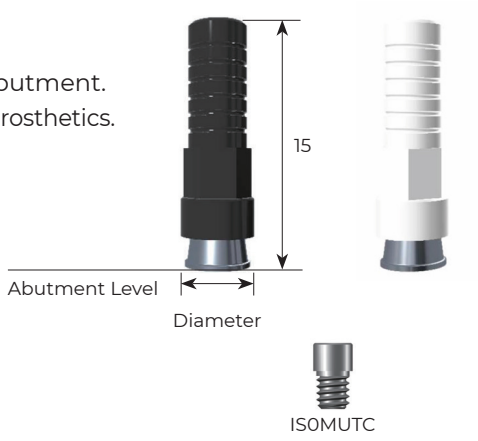
- Abutment for the screw maintenance type prosthetics for the single-unit abutment.
- Abutment level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type
MUSB45H	4.5	Hex
MUSB45N	4.5	Non-Hex

Castable Abutment (CCM)

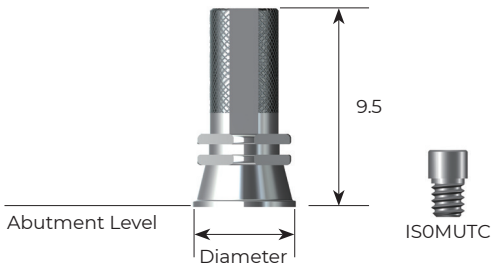
- Abutment for the screw-retained type prosthetics for the single-unit abutment.
- Castable as nonprecious alloy, and it is used for producing the customized prosthetics.
- Added the abutment level impression & scan.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type	Color
I0MUCC40H	4.0	Hex	Black
I0MUCC40	4.0	Non-Hex	White

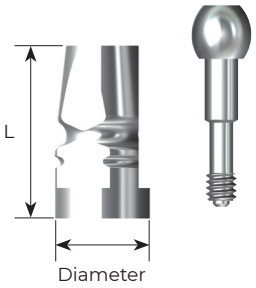
Temporary Cylinder

- Abutment for the screw-retained type temporary prosthetics for the single-unit abutment.
- Cut it to use when producing the temporary prosthetics.
- Abutment level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type
I0MUTC40H	4.0	Hex
I0MUTC40	4.0	Non-Hex

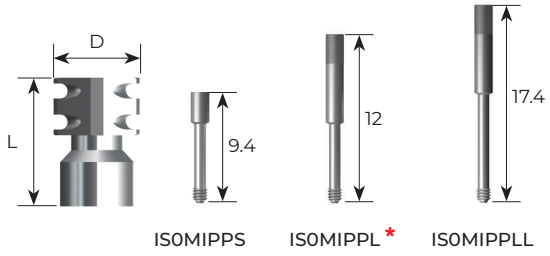
Impression Post Transfer type
(for Closed-Tray Technique)



- Transfer impression coping for single-unit abutment.
- Assemble with 1.2 hex driver.
- Package components : Impression Coping + Impression Screw

ART. NO.	Diameter	Length	Included Screw
IC0MUPT40SS S4	4.0	6.0	IS0MUPT40SS
IC0MUPT40S S4	4.0	8.5	IS0MUPT40S
IC0MUPT40L S4	4.0	11.5	IS0MUPT40L

Impression Post Pick-Up Type
(for Open-Tray Technique)



- Pick-up impression coping for single-unit abutment.
- Assemble with 1.2 hex driver.
- Package components : Impression Coping + Impression Screw *
- Included Screw

ART. NO.	Diameter	Length	Type	Included Screw
IC0MUPP40H S4	4.9	7.7	Hex	IS0MIPPL

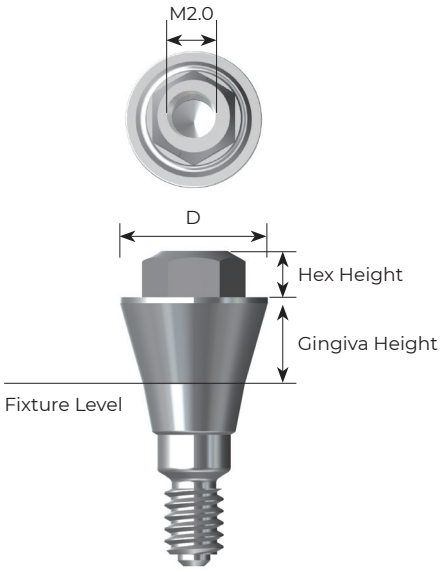
Lab Analog

- Lab analog for single-unit Abutment level impression.
- Package components : Lab analog

ART. NO.	Diameter	Type
IC0MAN40H S4	4.0	Hex

Single-Unit Abutment

- Abutment for the screw maintenance type prosthetics in a single case.
- Abutment level impression.
- Use the exclusive outer adapter for the single-unit abutment.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package components : Abutment + Grip + Healing Cap



G/H

SUA 5.0
(D 4.95)

IUSU5010 IUSU5020 IUSU5030 IUSU5040 IUSU5050 IUSU5060

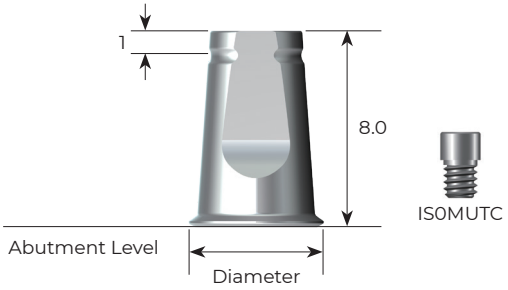
Healing Cap : IC0MUHC60

Grip : IC0MUPC50

Healing cap and grip are included in the product package

SB Abutment

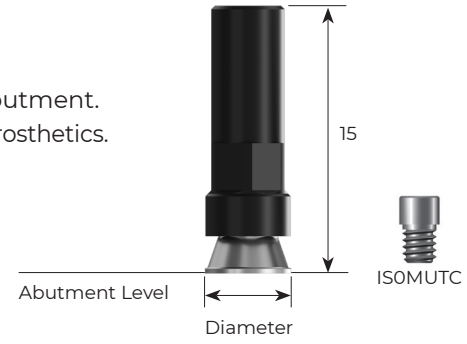
- Abutment for the screw maintenance type prosthetics for the single-unit abutment.
- Abutment level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type
SUSB55H S5	5.5	Hex

Castable Abutment (CCM)

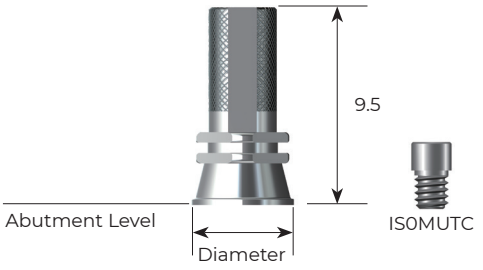
- Abutment for the screw-retained type prosthetics for the single-unit abutment.
- Castable as nonprecious alloy, and it is used for producing the customized prosthetics.
- Added the abutment level impression & scan.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type	Color
I0SUCC50H S5	5.0	Hex	Black

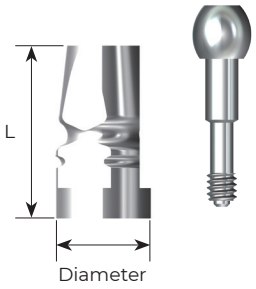
Temporary Cylinder

- Abutment for the screw-retained type temporary prosthetics for the single-unit abutment.
- Cut it to use when producing the temporary prosthetics.
- Abutment level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type
I0MUTC43H S5	5.0	Hex

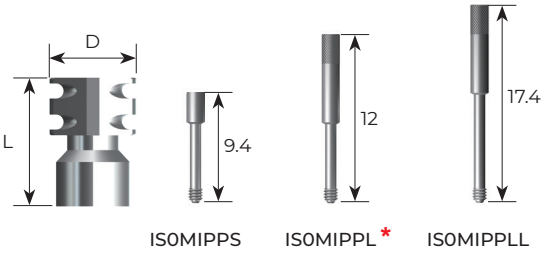
Impression Post Transfer type
(for Closed-Tray Technique)



- Transfer impression coping for single-unit abutment.
- Assemble with 1.2 hex driver.
- Package components : Impression Coping + Impression Screw

ART. NO.	Diameter	Length	Included Screw
IC0MUPTSS S5	5.0	6.0	IS0MUPTSS
IC0MUPTS S5	5.0	8.5	IS0MUPTS
IC0MUPTL S5	5.0	11.5	IS0MUPTL

Impression Post Pick-Up Type
(for Open-Tray Technique)



- Pick-up impression coping for single-unit abutment.
- Assemble with 1.2 hex driver.
- Package components : Impression Coping + Impression Screw *
- Included Screw

ART. NO.	Diameter	Length	Type	Included Screw
IC0MIPP43H S5	5.9	7.7	Hex	IS0MIPPL

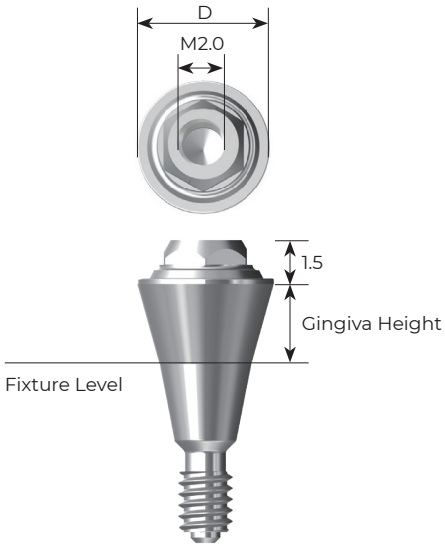
Lab Analog

- Lab analog for single-unit Abutment level impression.
- Package components : Lab analog

ART. NO.	Diameter	Type
IC0SAN50H S5	5.0	Hex

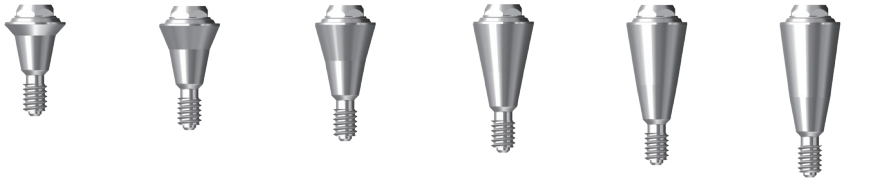
Multi-Unit Abutment

- Abutment for the screw maintenance type prosthetics in multiple cases.
- Abutment level impression.
- Assemble with the exclusive outer driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package Components : Abutment + Grip + Healing Cap



G/H

MUA5.0
(D 4.95)



IUMU5010 IUMU5020 IUMU5030 IUMU5040 IUMU5050 IUMU5060

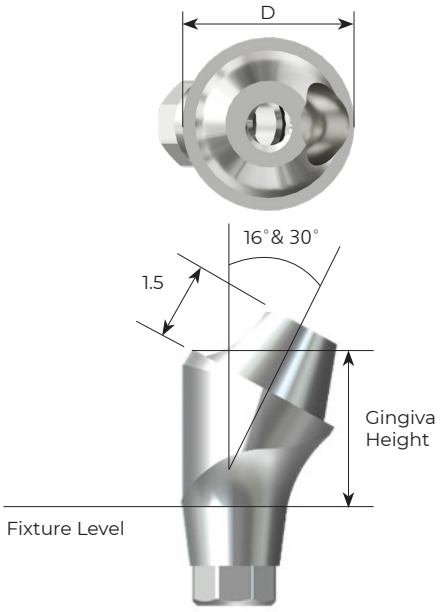
Healing Cap : IC0MUHC60

Grip : IC0MUPC50

Healing Cap and Grip are included in the product package

Angled Multi-Unit Abutment

· Abutment for the screw-retained type prosthetics of multiple cases.
· Same platform as the multi-unit abutment.
· Optional usage according to various oral environments. (16°,30°)
· Abutment level impression & scan.
· Assemble with 1.2 hex driver.
· Recommended tightening torque : 30Ncm
· **Re-tighten with a torque of 30 Ncm after 10 minutes of initial placement.**
· Package components : Abutment + Grip + Screw + Healing Cap




Healing Cap : IC0MUHC60


Screw : IUMUAASA


IUMUAAS


Grip : MUAAGR

Screw and grip are included in the product package

G/H

AMUA 5.0
(D 4.95)
16°

AMUA 5.0
(D 4.95)
16°


IUMUAA1625HA
IUMUAA1625H


IUMUAA1635HA
IUMUAA1635H


IUMUAA1645HA
IUMUAA1645H

AMUA 5.0
(D 4.95)
30°

AMUA 5.0
(D 4.95)
30°

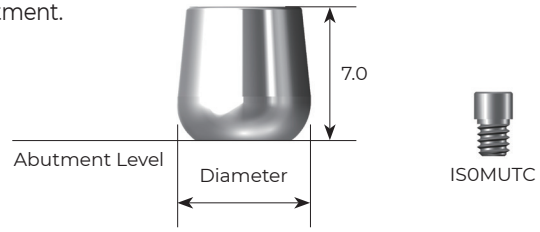

IUMUAA3030HA
IUMUAA3030H


IUMUAA3040HA
IUMUAA3040H


IUMUAA3050HA
IUMUAA3050H

Milling Abutment

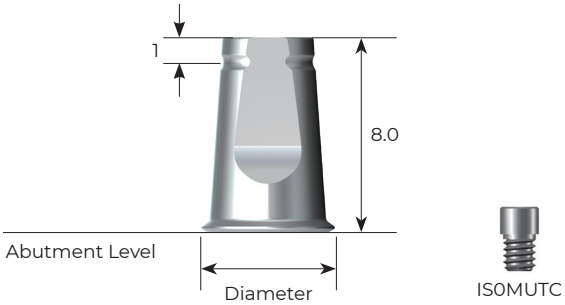
- Abutment for the screw maintenance type prosthetics for Multi-unit abutment.
- Easy margin formation.
- Abutment level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Packaged component : Abutment + Screw



ART. NO.	Diameter	Type
I0MUMAN	7.0	Non-Hex

SB Abutment

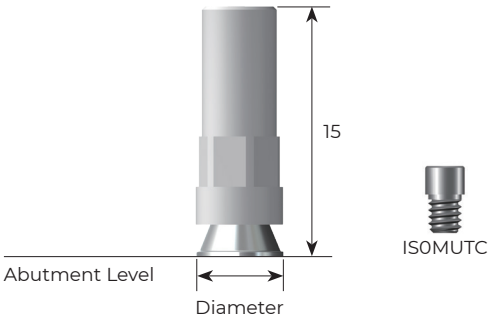
- Abutment for the screw maintenance type prosthetics for Multi-unit abutment.
- Abutment level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type
MUSB55N	5.5	Non-Hex

Castable Abutment (CCM)

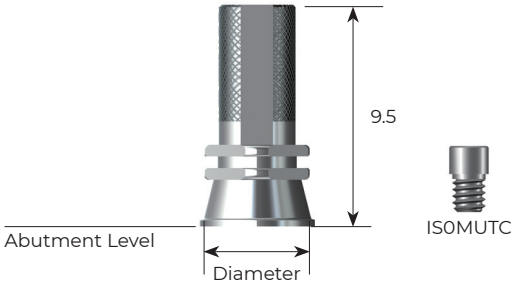
- Abutment for the screw-retained type prosthetics for the single-unit abutment.
- Castable as nonprecious alloy, and it is used for producing the customized prosthetics.
- Added the abutment level impression & scan.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type	Color
I0MUCC43 M5	5.0	Non-Hex	White

Temporary Cylinder

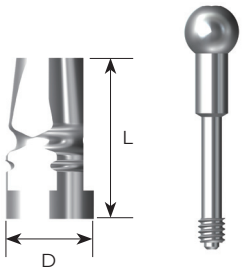
- Abutment for the screw-retained type temporary prosthetics for the single-unit abutment.
- Cut it to use when producing the temporary prosthetics.
- Abutment level impression.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter	Type
I0MUTC43 M5	5.0	Non-Hex

Impression Post Transfer Type
(for Closed-Tray Technique)

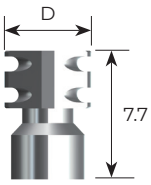
- Transfer impression coping for Multi-unit abutment.
- Assemble with 1.2 hex driver.
- Package Components : Impression Coping + Impression Screw

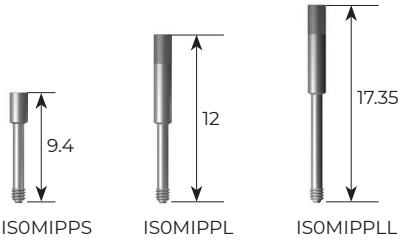


ART. NO.	Length	Type	Included Screw
IC0MUPT43SS M5 AM5	6.0	Non-Hex	IS0MUPTSS
IC0MUPT43S M5 AM5	5.9	Non-Hex	IS0MUPTS
IC0MUPT43L M5 AM5	12	Non-Hex	IS0MUPTL

Impression Post Pick-Up Type
(for Open-Tray Technique)

- Pick-up impression coping for Multi-unit abutment.
- Assemble with 1.2 hex driver.
- Package Components : Impression Coping + Impression Screw

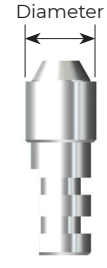




ART. NO.	Diameter	Type	Included Screw
IC0MIPP43 M5 AM5	5.9	Non-Hex	IS0MIPPL

Lab Analog

- Lab analog for multi-unit abutment.
- Abutment level impression.
- Package Components : Lab Analog

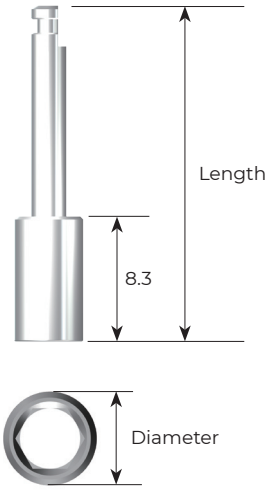


IC0MAN43

ART. NO.	Diameter	Type
IC0MAN43 M5 AM5	5.0	Non-Hex

InEx Instruments

Adapter for Single-Unit / Multi-Unit Abutment
(Machine)

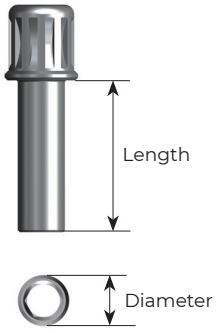


• An exclusive outer adapter for single-unit / multi-unit abutments

ART. NO.	Diameter	Length
HA-HHA S4	4.0	22.3
HA-HH S5 M5	5.0	22.3

Adapter for Single-Unit / Multi-Unit Abutment
(Torque Wrench)

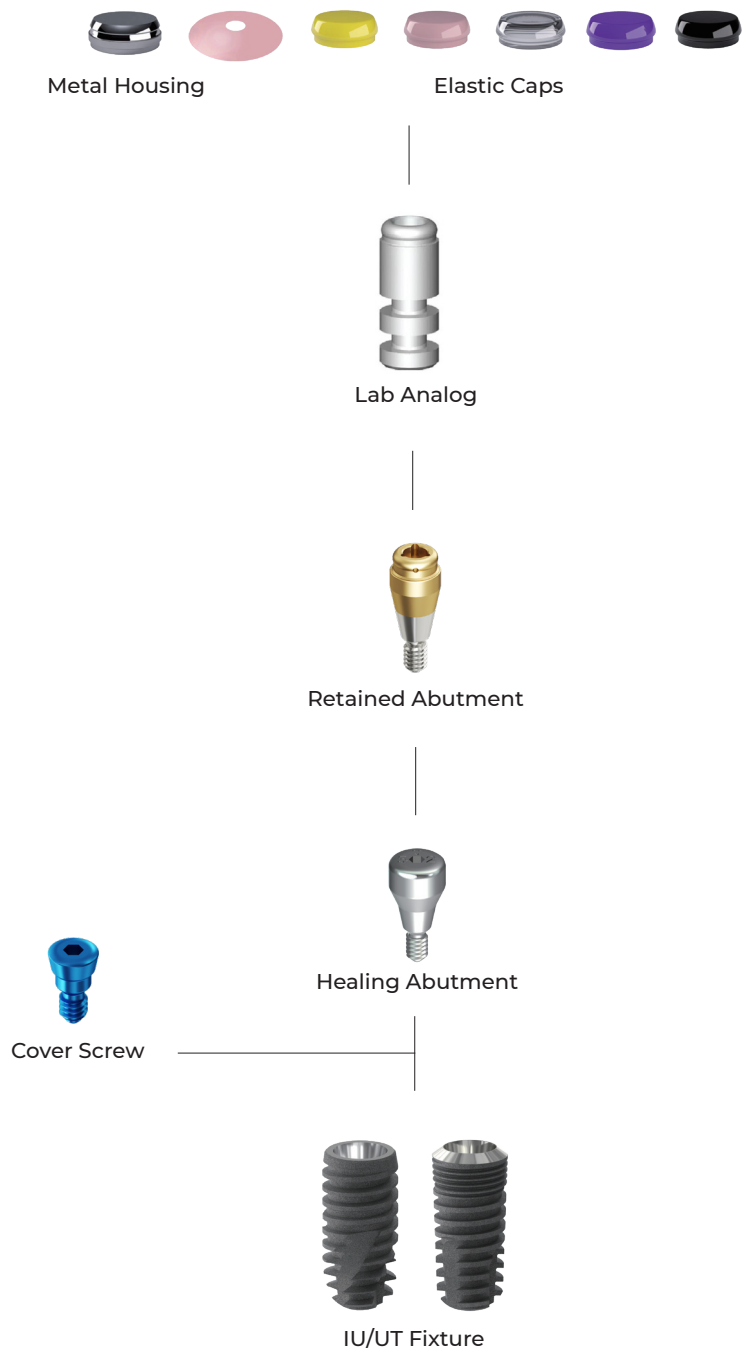
• An exclusive outer hex adapter for single-unit / multi-unit abutments.
• Lengths of short, long, and extra long are available.



ART. NO.	Diameter	Length
RA-HHA-S S4	4.0	14.6
RA-HHA-L S4	4.0	19.1
RA-HHA-LL S4	4.0	24.0
RA-HH-S S5 M5	5.0	14.6
RA-HH-L S5 M5	5.0	19.1
RA-HH-LL S5 M5	5.0	24.0

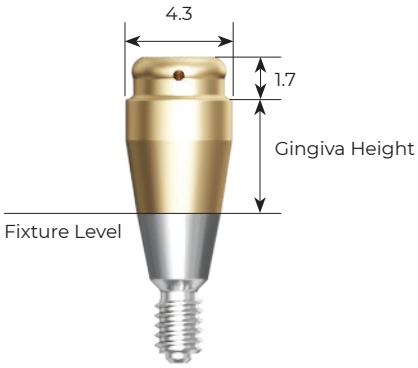
Retained

If the housing and cap has the same specification with Zest's Locator, Rhein83's OT Equator Plus, and others, they are compatible with Warantec's product.



Retained Abutment

- Abutment for the locator type overdenture.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30 Ncm after 10 minutes of initial placement.**
- Package components : Abutment



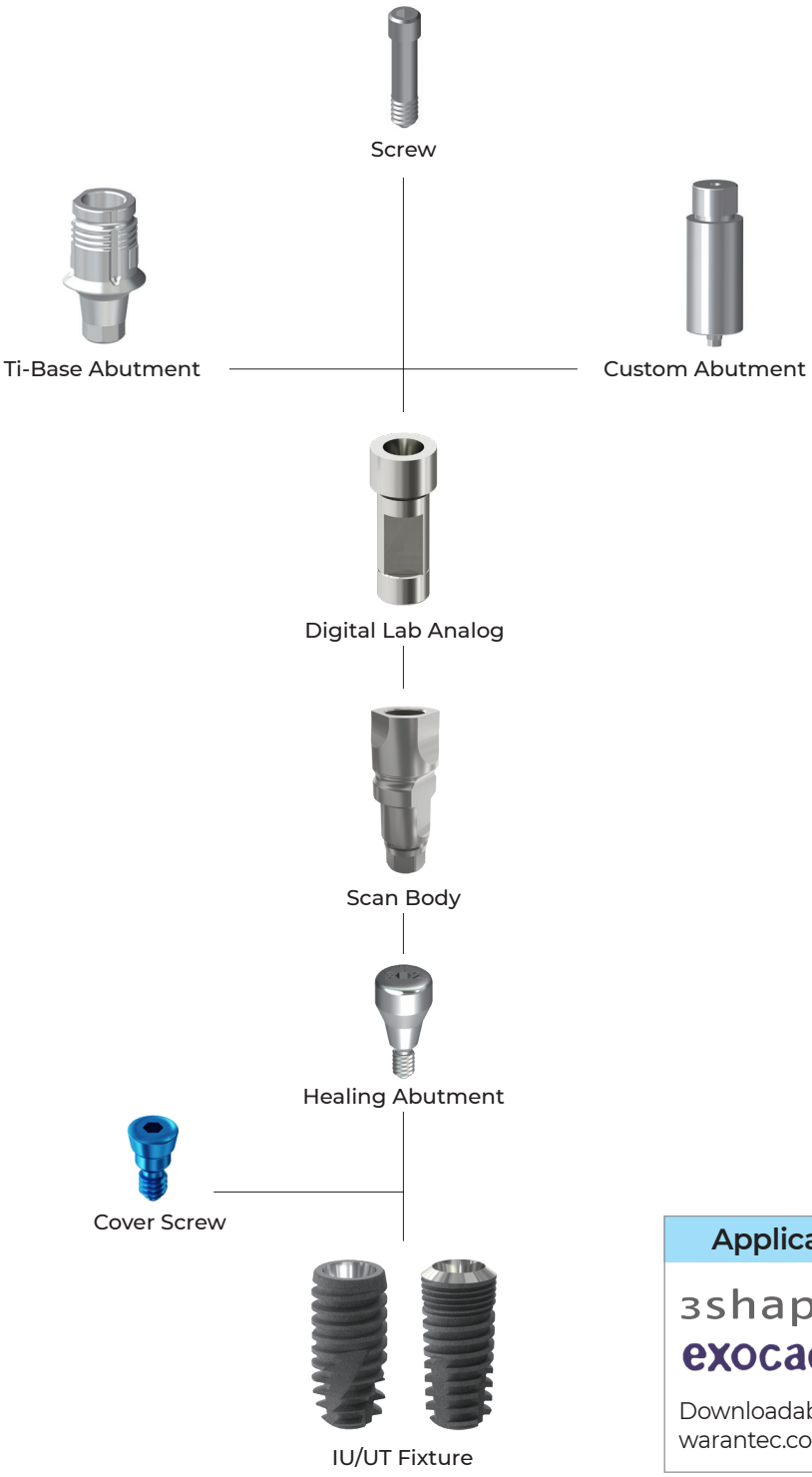
G/H

RA4.3
(D 4.3)

RA4.3
(D 4.3)

IULA4310AT	IULA4320AT	IULA4330AT	IULA4340AT	IULA4350AT	IULA4360AT
IULA4310T	IULA4320T	IULA4330T	IULA4340T	IULA4350T	IULA4360T

Digital Prosthetics (Fixture Level)



Applicable software

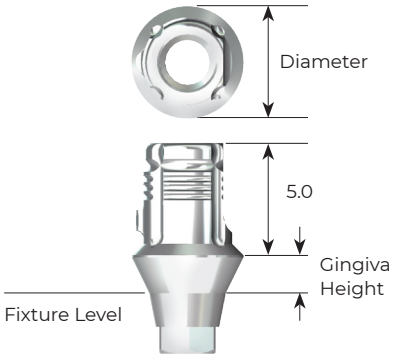
3shape

exocad

Downloadable on warantec.com

Ti-Base Abutment

- Abutment for the cement & screw maintenance type prosthetics.
- Used for producing the custom abutment with the CAD / CAM devices.
- Fixture level scan.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package Components : Abutment + Screw

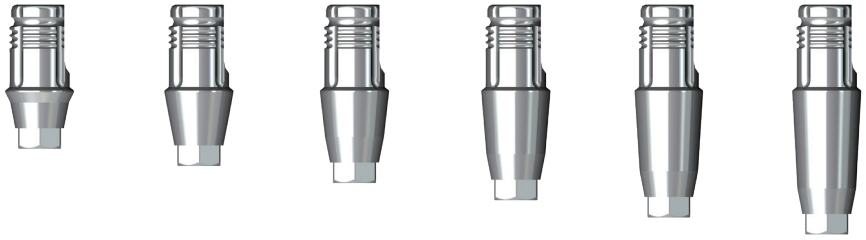


IUASLA IUASL

G/H

TB4.0 (D 4.0)

TB4.0 (D 4.0)



IUTB4015HA	IUTB4025HA	IUTB4035HA	IUTB4045HA	IUTB4055HA	IUTB4065HA
IUTB4015H	IUTB4025H	IUTB4035H	IUTB4045H	IUTB4055H	IUTB4065H

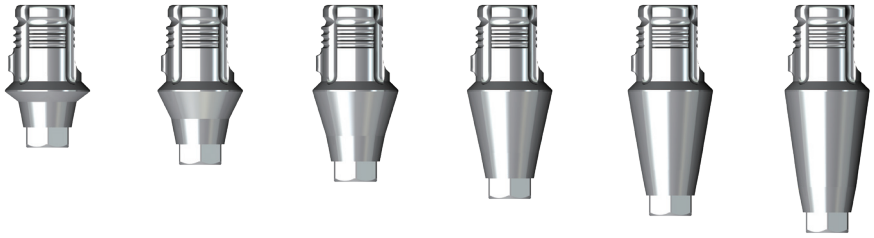
TB4.0 (D 4.0)

TB4.0 (D 4.0)

IUTB4015NA	IUTB4025NA	IUTB4035NA	IUTB4045NA	IUTB4055NA	IUTB4065NA
IUTB4015N	IUTB4025N	IUTB4035N	IUTB4045N	IUTB4055N	IUTB4065N

G/H

TB5.0
(D 5.0)
Hex



IUTB5015H IUTB5025H IUTB5035H IUTB5045H IUTB5055H IUTB5065H

TB5.0
(D 5.0)
Non-Hex

IUTB5015N IUTB5025N IUTB5035N IUTB5045N IUTB5055N IUTB5065N

TB5.8
(D 5.8)
Hex

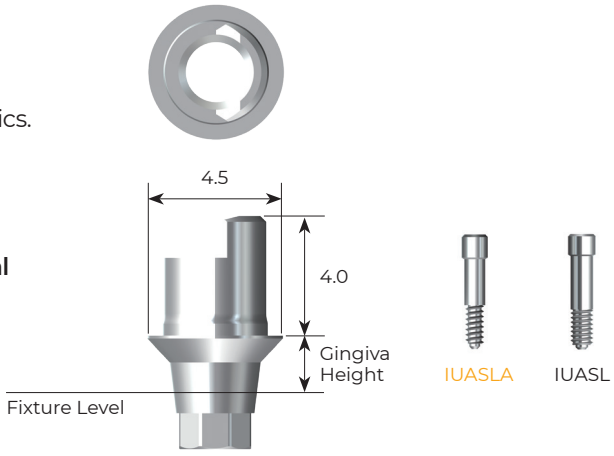
IUTB5815H IUTB5825H IUTB5835H IUTB5845H IUTB5855H IUTB5865H

TB5.8
(D 5.8)
Non-Hex

IUTB5815N IUTB5825N IUTB5835N IUTB5845N IUTB5855N IUTB5865N

Semicircle Ti-Base Abutment

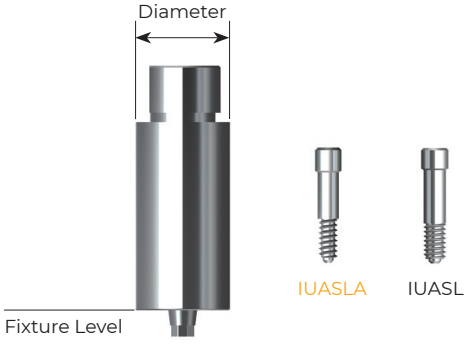
- Abutment for the cement & screw maintenance type prosthetics.
- Fixture level scan.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package components : Abutment + Screw



Art. No.	G/H
IUTB4510HA	1
IUTB4525HA	2.5
IUTB4510H	1
IUTB4525H	2.5

Custom Abutment

- Abutment for the cement & screw maintenance type prosthetics.
- Used for producing the custom abutments with the CAD / CAM devices.
- Extra abutment screws are included for lab.
- Fixture level scan.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 30Ncm
- **Re-tighten with a torque of 30Ncm after 10 minutes of initial placement.**
- Package components : Abutment + Screw x 2ea

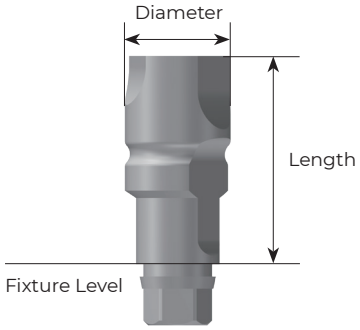


Art. No.	Art. No.	Diameter	Machine Type
IUCMAA	IUCMA	10	Arum
IUCMA14A	IUCMA14	14	Arum
IUCMBA	IUCMB	10	Manix
IUCMCA	IUCMC	12	Medentika
IUCMDA	IUCMD	14	Denkai

Scan Body

- Scan body for the digital abutment / digital crown.
- Application for the chair side / lab side.
- Assemble with 1.2 hex driver using hand force.
- Fixture level scan.
- Package components : Scan body + Screw

- Since there is a horizontal groove in the middle of the scan body, conventional impression-taking method is available.



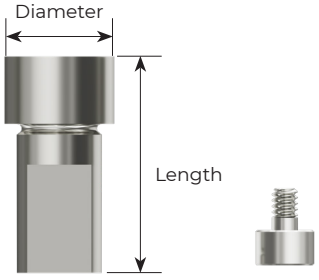
Art. No.	Diameter	Length	Application
IUSCTHA	4.3	8.5	Short
IUSCTHLA	4.0	13.7	Long
IUSCTH	4.3	8.5	Short
IUSCTHL	4.0	13.7	Long

Scan Body Screw

Art. No.	Length	Application
IUSCSA	14.4	Short
IUSCLA	19.6	Long
IUSCS	14.4	Short
IUSCL	19.6	Long

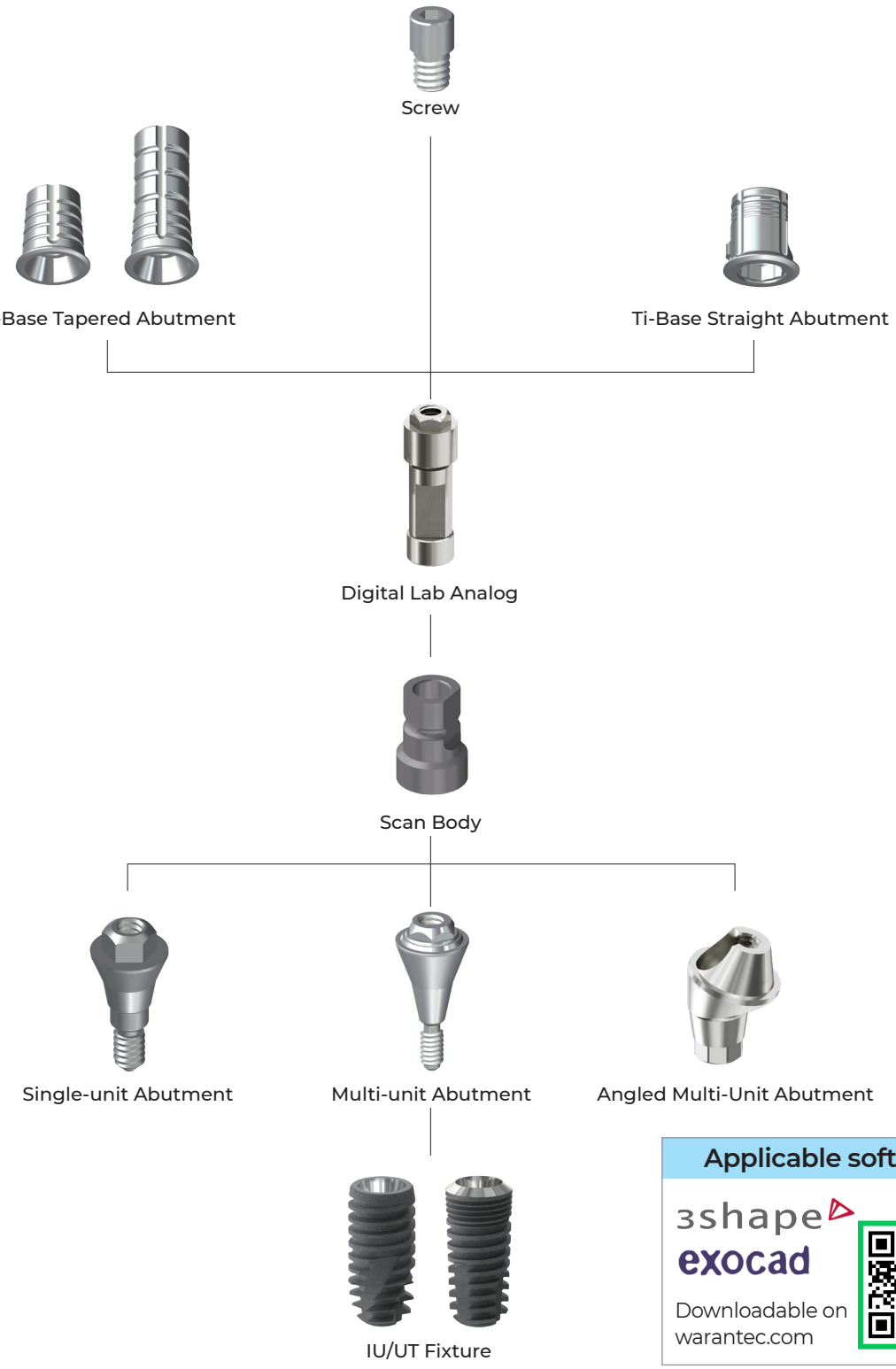
Digital Lab Analog

- Digital lab analog for printed model.
- Package components : Analog + Screw



Art. No.	Diameter	Length
IUDANA	4.5	9
IUDAN	4.5	9

InEx Digital Prosthetics (Abutment Level)



Applicable software

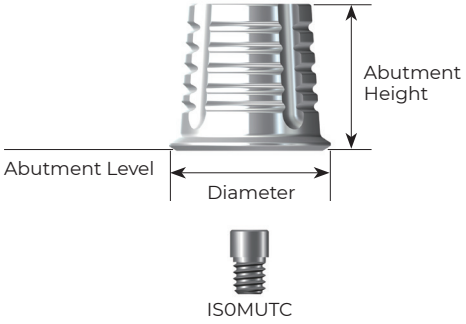
3shape

exocad

Downloadable on warantec.com

Ti-Base (Tapered Type)

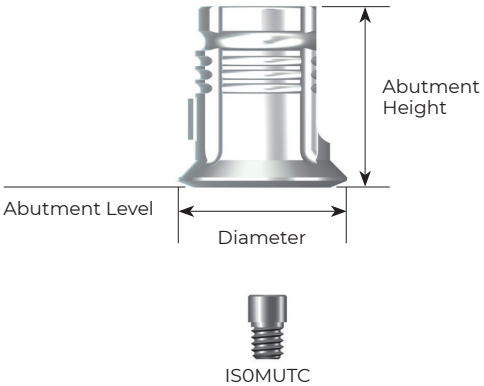
- Abutment for the cement & screw maintenance type prosthetics.
- Used for the digital abutments with CAD / CAM devices.
- Abutment level scan.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter(mm)	A/H
MUTB45TNS S4	4.5	4.0
MUTB45TN S4	4.5	5.5
MUTB55TS M5 AM5	5.5	4.2
MUTB55T M5 AM5	5.5	6.0
MUTB55TL M5 AM5	5.5	11.0

Ti-Base (Straight Type)

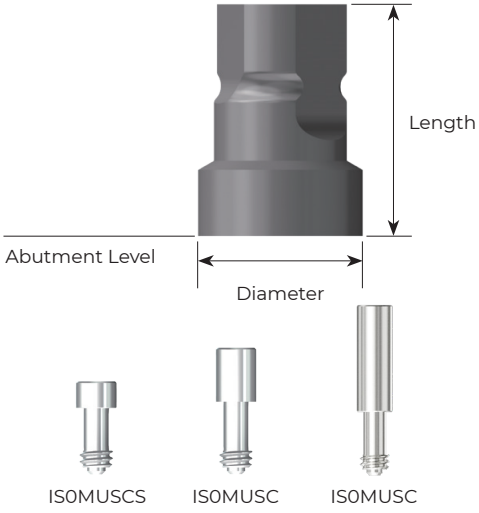
- Abutment for the cement & screw maintenance type prosthetics.
- Used for the digital abutment with the CAD / CAM devices.
- Abutment level scan.
- Assemble with 1.2 hex driver.
- Recommended tightening torque : 20Ncm
- Package components : Abutment + Screw



ART. NO.	Diameter(mm)	A/H
MUTB45SHS S4	4.5	4.0
MUTB45SH S4	4.5	5.8
SUTB58SHS S5	5.8	4.2
SUTB58SH S5	5.8	6.3

Scan Body

- Scan body for digital prosthetics.
- Joint usage for Single-Unit Abutment / Multi-Unit Abutment.
- Application for the chair side / lab side.
- Abutment level scan.
- Assemble with 1.2 hex driver.
- Package components : Scan Body + Screw



Art. No.	Diameter	Length
MUSCT40S	4.0	5.0
MUSCT40	4.0	7.0
MUSCT40L	4.0	11
MUSCT50S	5.0	5.0
MUSCT50	5.0	7.0
MUSCT50L	5.0	11
MUSCT50NS	5.0	5.0
MUSCT50N	5.0	7.0
MUSCT50NL	5.0	11

Digital Lab Analog

- Digital lab analog for abutment level scan.
- Package components : Analog + Screw

Art. No.	Diameter
MUDAN40	4.0
MUDAN50N	5.0
SUDAN50	5.0

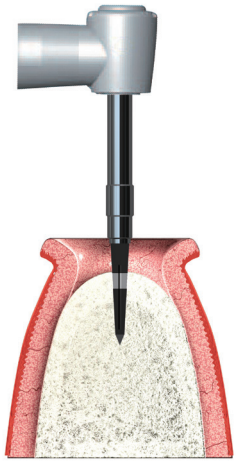
IU IMPLANT SURGICAL PROCEDURE

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

IU Implant Surgical Procedure
(In Case of Fixture 4.5x10mm)

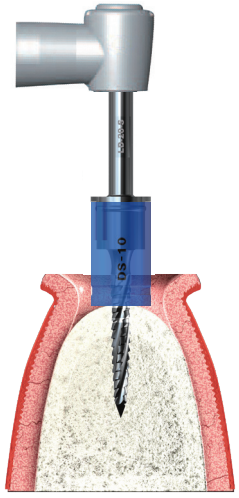
Please follow this procedure for a successful and safe operation.

1. Point Drill



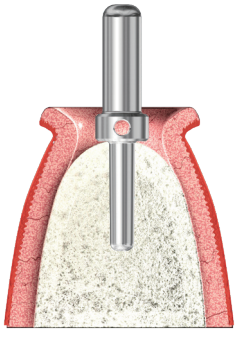
- Recommended RPM : 800-1,000 RPM
- Mark the implantation place for the fixture on the cortical bone.
  (In Case of Fixture 4.5X10mm)

2. Lindemann Drill



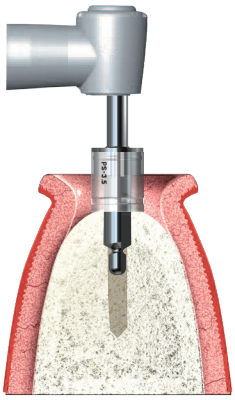
- Drill it to the laser-marked line equal to the fixture length.
- Use a longer drill or extension if adjacent tooth blocks the drill path.
- Use the drill at 1,000 RPM, and increase the amount of irrigation
  to reduce bone overheating as high RPM causes more heat.
- Angle correction is available while drilling.

3. Guide Pin



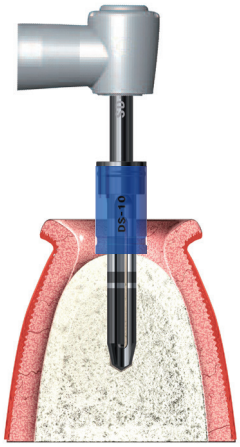
- Used to identify the direction and placement.
  ☞ Suggestion : insert dental floss into the hole in the middle to stably fix the pin.

4. Pilot Drill



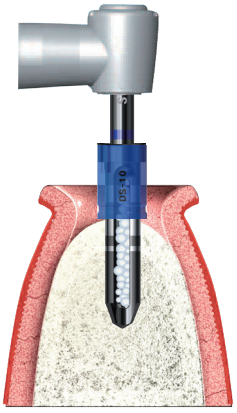
- Suggestion : 800-1,000 RPM
- Drill for extending the hole for the next step.
- Maintain the drilling axis when using a drill.
- Check the laser mark on the cortical bone and use it intuitively.
- Can be used on the hard bone selectively.

5. Bone Collecting Drill F3.6 X 10mm



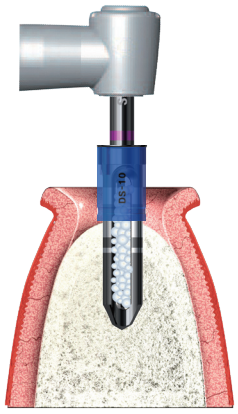
- Suggestion : 800-1,000 RPM
- Drill it to the laser marked line equal to the fixture length as an intermediate drilling process.
- Select the length of short or long specifications according to the intraoral access environment.
- It is recommended to use a stopper for more bone harvest from irrigation.

6. Bone Collecting Drill F4.0 X 10mm



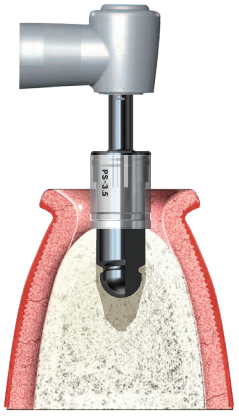
- Suggestion : 800-1,000 RPM
- Drill it to the laser marked line equal to the fixture length as an intermediate drilling process.
- Select the length of short or long specifications according to the intraoral access environment.
- It is recommended to use a stopper for more bone harvest from irrigation.

7. Bone Collecting Drill F4.5 X 10mm



- Suggestion : 800-1,000 RPM
- Select the length of short or long specifications according to the intraoral access environment.
- Drill it to the laser marked line equal to the fixture length as an intermediate drilling process.
- Select the length of short or long specifications according to the intraoral access environment.
- It is recommended to use a stopper for more bone harvest from irrigation.

8. Final Drill



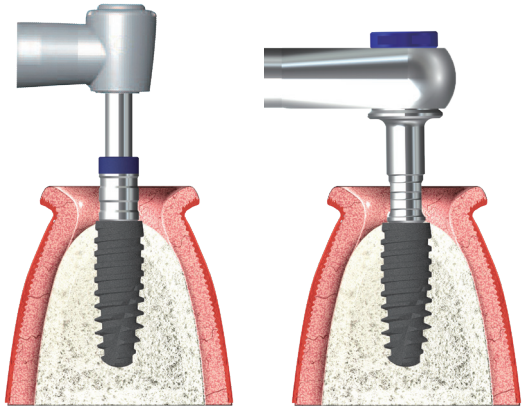
- Suggestion : 800-1,000 RPM
- Drill for cortical bone's hole expansion after using the bone collecting drill.
- Use it on hard bones only.
- Use designated fixtures by diameter.

9. Move the fixture from the ampule into the oral cavity

- When the user opens the lid of the ampule, the implant gets exposed and is ready to be grabbed.
- As it is a no-mount type fixture, use the fixture driver to grab the fixture firmly by feeling the hexes are met, and lift it from the ampule.
- Face the fixture upwards to prevent dropping it when moving the fixture in to the oral cavity.

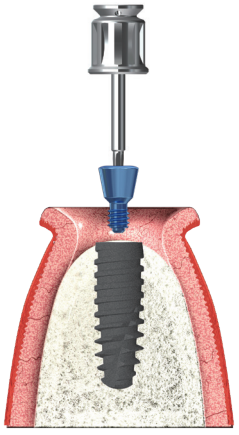
10. Placement of the F4.5 X 10mm fixture

- Can select the machine type or torque wrench type fixture driver to implant the fixture.
- Recommended implantation torque : 25 - 40 Ncm



11. Tightening Cover Screw

- Open the bottom lid of the ampule and grab the cover screw with 1.2 hex driver.
- Face the cover screw upwards to prevent dropping it when moving the cover screw into the oral cavity.
- Tighten the cover screw with a torque of 10 Ncm or less.

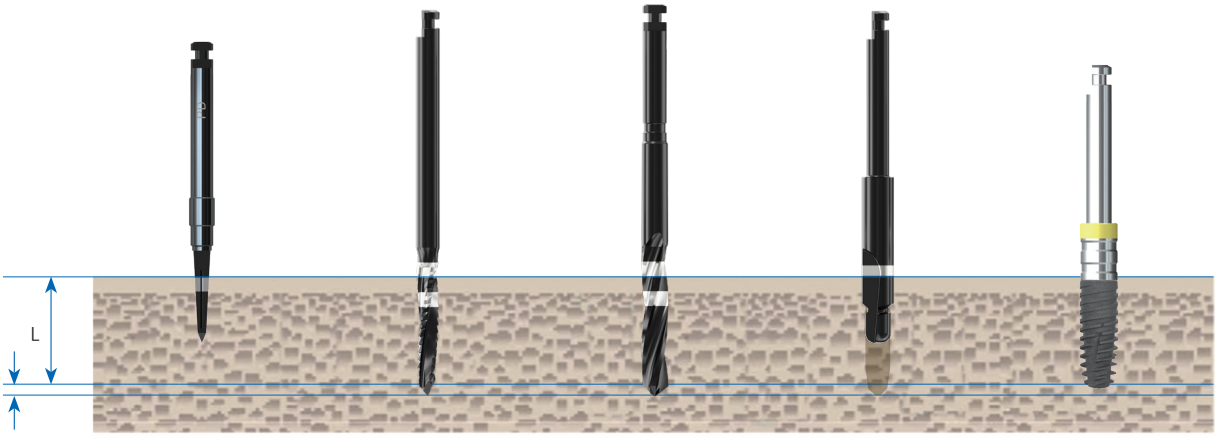


Surgical Procedure for IU IMPLANT

After using Lindemann Drill, the operator can use Pilot Drill (PD-30) selectively.

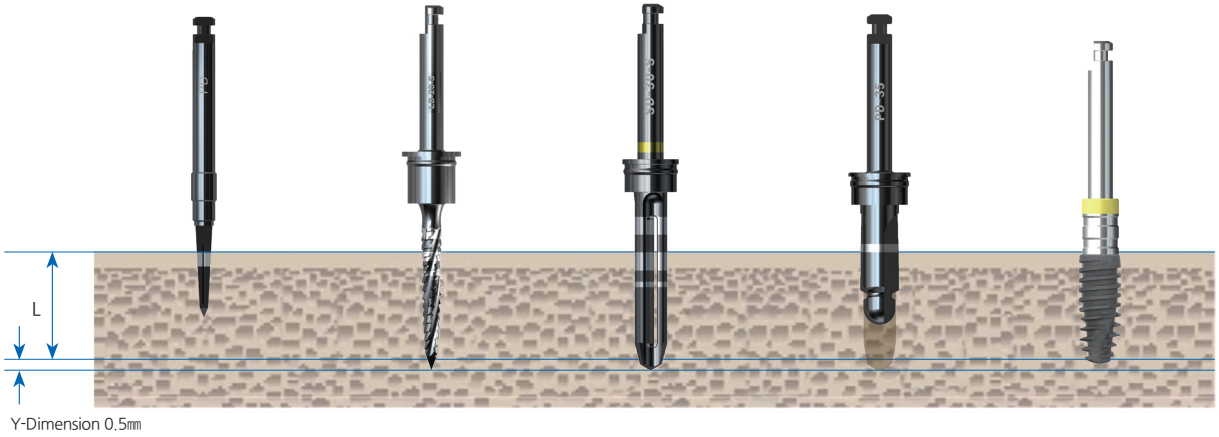
It is always recommended to use 1 step shorter stopper for drilling than the length of fixture to be installed, to make sure the fixture will be submerged 0.5~1.0mm deeper than the bone level.

IU **F3.3** Surgical Sequence



Bone Quality	Point	Lindemann	Straight (F3.3)	Final (F3.3)	Fixture Driver
Hard	▶	▶	▶	▶	Implant Placement
Normal		▶	▶		
Soft		▶	▷		

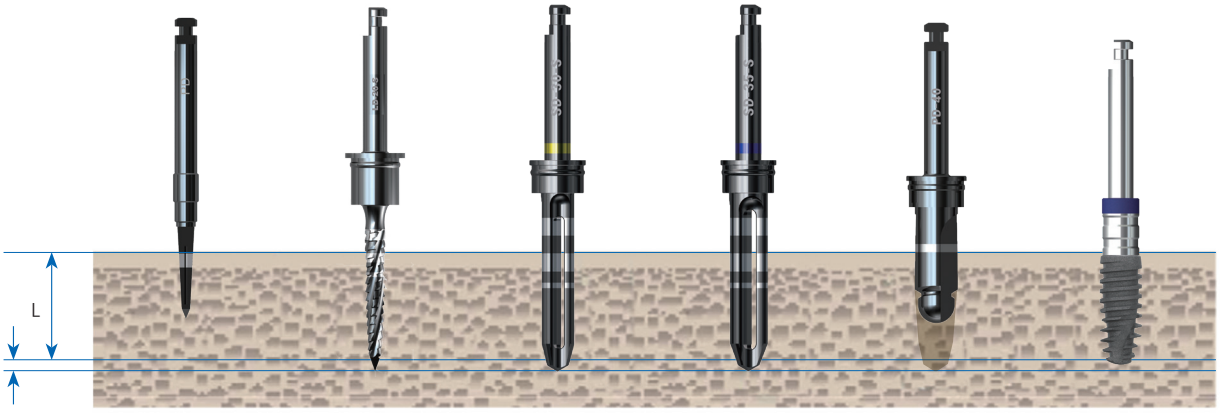
IU **F3.6** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Final (F3.6)	Fixture Driver
Hard	▶	▶	▶	▶	Implant Placement
Normal		▶	▶		
Soft		▶	▷		

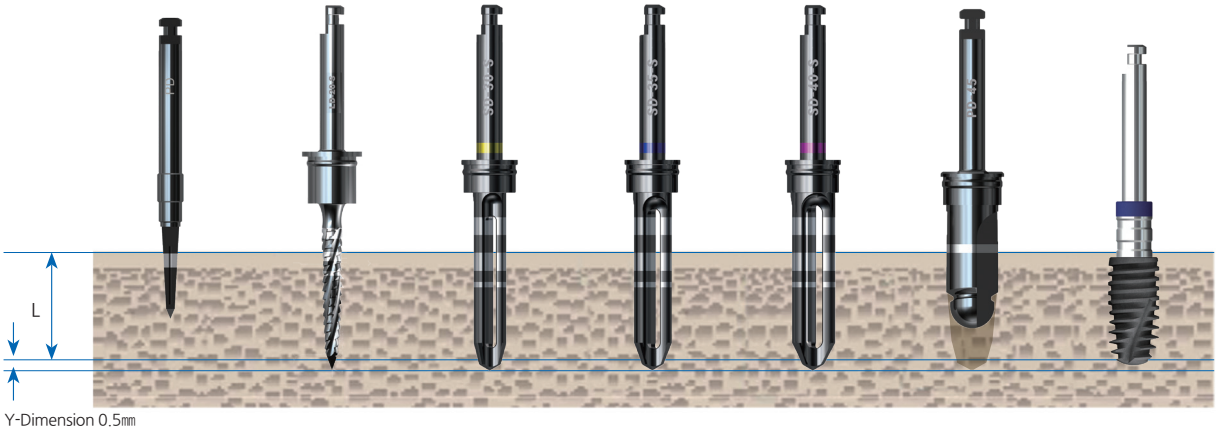
It is always recommended to use 1 step shorter stopper for drilling than the length of fixture to be installed, to make sure the fixture will be submerged 0.5~1.0mm deeper than the bone level.

IU **F4.0** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Collecting (F4.0)	Final (F4.0)	Fixture Driver
Hard	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶		
Soft		▶	▶			

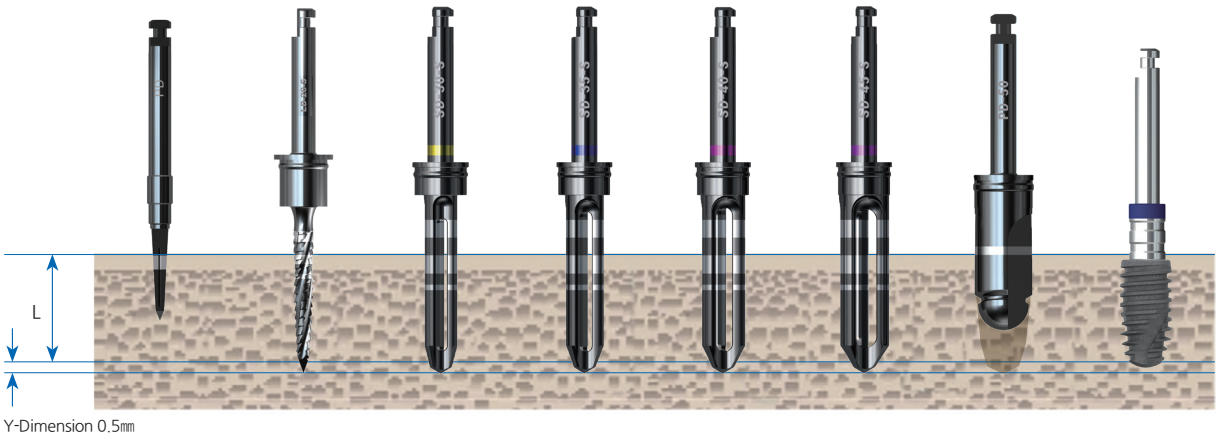
IU **F4.5** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Collecting (F4.0)	Collecting (F4.5)	Final (F4.5)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶	▶		
Soft		▶	▶	▶			

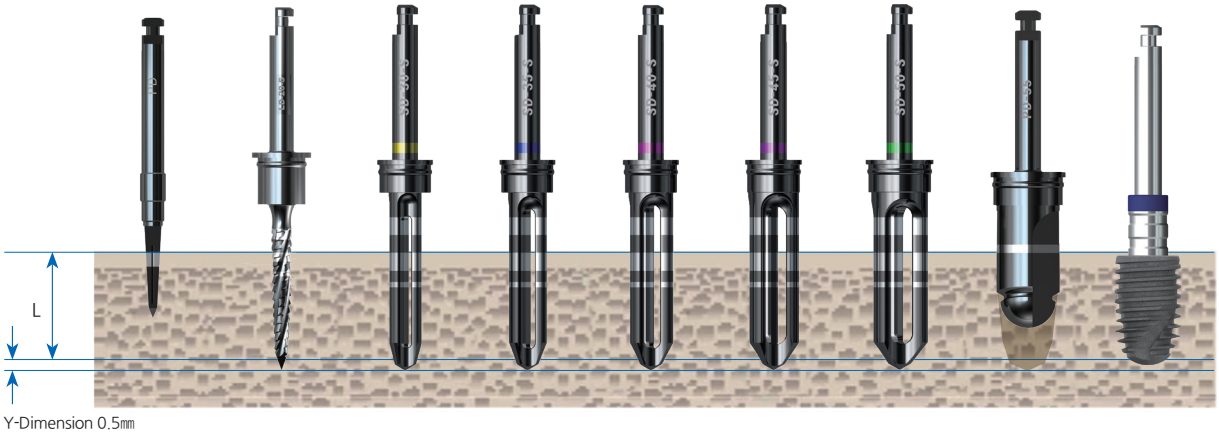
It is always recommended to use 1 step shorter stopper for drilling than the length of fixture to be installed, to make sure the fixture will be submerged 0.5~1.0mm deeper than the bone level.

IU **F5.0** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Collecting (F4.0)	Collecting (F4.5)	Collecting (F5.0)	Final (F5.0)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶	▶	▶		
Soft		▶	▶	▶	▶			

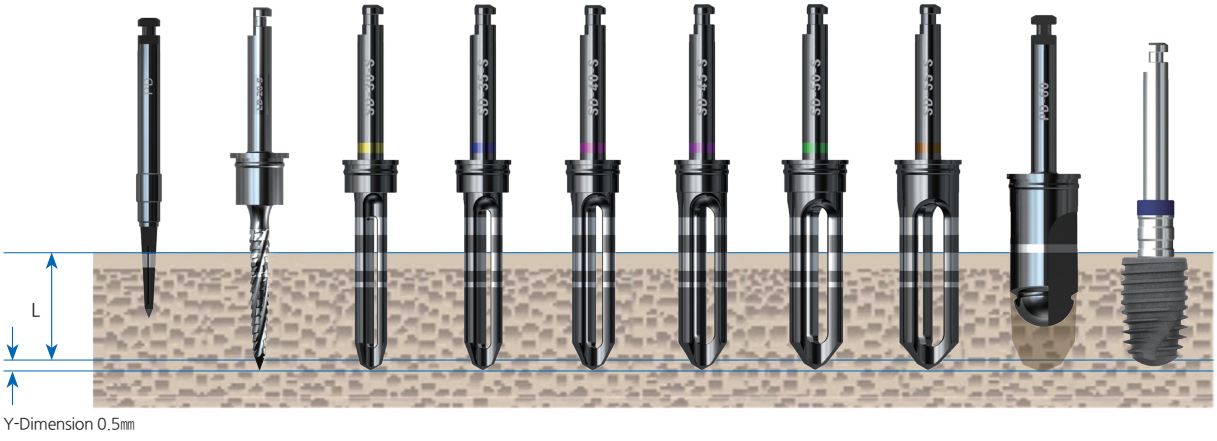
IU **F5.5** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Collecting (F4.0)	Collecting (F4.5)	Collecting (F5.0)	Collecting (F5.5)	Final (F5.5)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶	▶	▶	▶		
Soft		▶	▶	▶	▶	▶			

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

IU **F6.0** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Collecting (F4.0)	Collecting (F4.5)	Collecting (F5.0)	Collecting (F5.5)	Collecting (F6.0)	Final (F6.0)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶	▶	▶	▶	▶		
Soft		▶	▶	▶	▶	▶	▶			

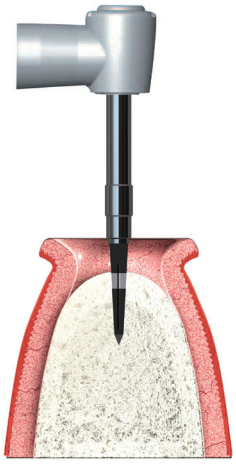
UT IMPLANT SURGICAL PROCEDURE

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

UT Implant Surgical Procedure
(In Case of Fixture 4.3x10mm)

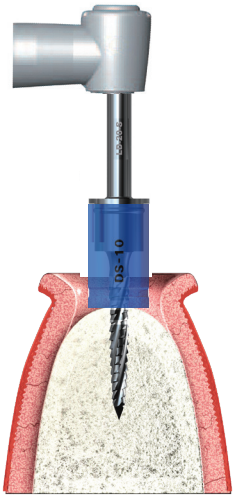
Please follow this procedure for a successful and safe operation.

1. Point Drill



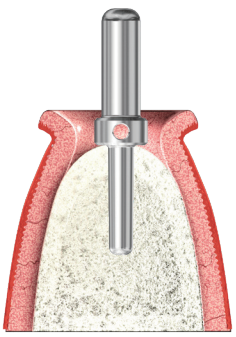
- Suggestion : 800-1,000 RPM
- Mark the implantation place for the fixture on the cortical bone.

2. Lindemann Drill



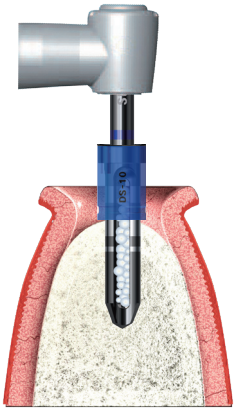
- Drill it to the laser-marked line equal to the fixture length.
- Use a longer drill or extension if adjacent tooth blocks the drill path.
- Use the drill at 1,000 RPM, and increase the amount of irrigation to reduce bone overheating high RPM causes more heat.
- Angle correction is available while drilling.

3. Guide Pin



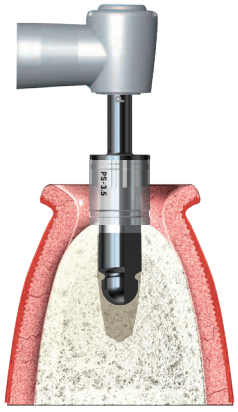
- Use it in order to identify the direction and placement.
  ☞ Suggestion : insert a floss into the hole in the middle to fix the pin stably.

4. Bone Collecting Drill F3.6 X 10mm



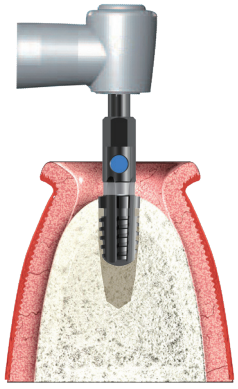
- Suggestion : 800-1,000 RPM
- Drill it to the laser marked line equal to the fixture length as an intermediate drilling process.
- Select the length of short or long specifications according to the intraoral access environment.
- It is recommended to use a stopper for more bone harvest from irrigation.

5. Final Drill F4.0



- Suggestion : 800-1,000 RPM
- Drill for cortical bone expansion after using the bone collecting drill.
- Use it on hard bones only.
- Use designated fixtures by diameter.

6. Tap Drill F4.3 x 7mm



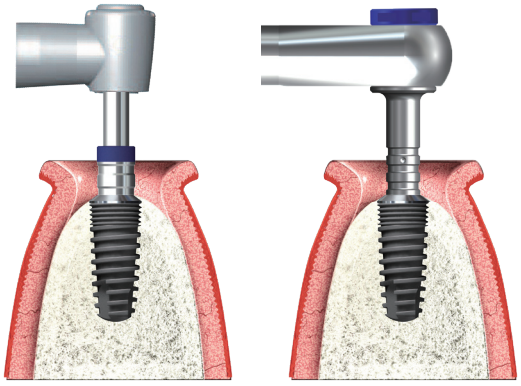
- Tap for tapered fixtures.
- It is used to create a micro threaded channel in hard bone.
- Use machine or torque wrench assembled with shank adapter to tap it.

8. Move the fixture from the ampule into the oral cavity

- When the user opens the lid of the ampule, the implant gets exposed and is ready to be grabbed.
- As it is a no-mount type fixture, use the fixture driver (magic grip) to grab the fixture and lift it from the ampule.
- Face the fixture upwards to prevent dropping it when moving the fixture in to the oral cavity.

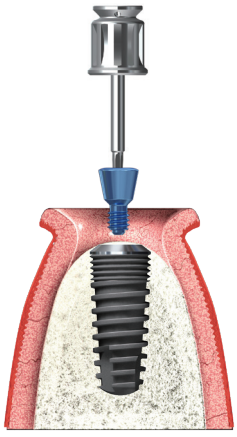
9. Placement of the F4.3 X 10mm fixture

- Can select the machine type or torque wrench type fixture driver to implant the fixture.
- Recommended implantation torque : 25 - 40 Ncm



10. Tightening Cover Screw

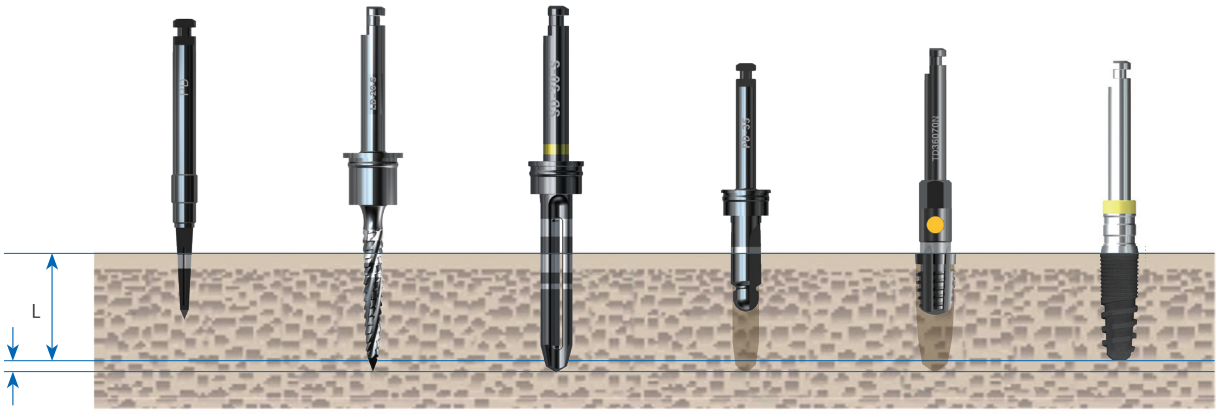
- Open the bottom lid of the ampule and grab the cover screw with 1.2 hex driver.
- Face the cover screw upwards to prevent dropping it when moving the cover screw into the oral cavity.
- Tighten the cover screw with a torque of 10Ncm or less.



Surgical Procedure for UT IMPLANT

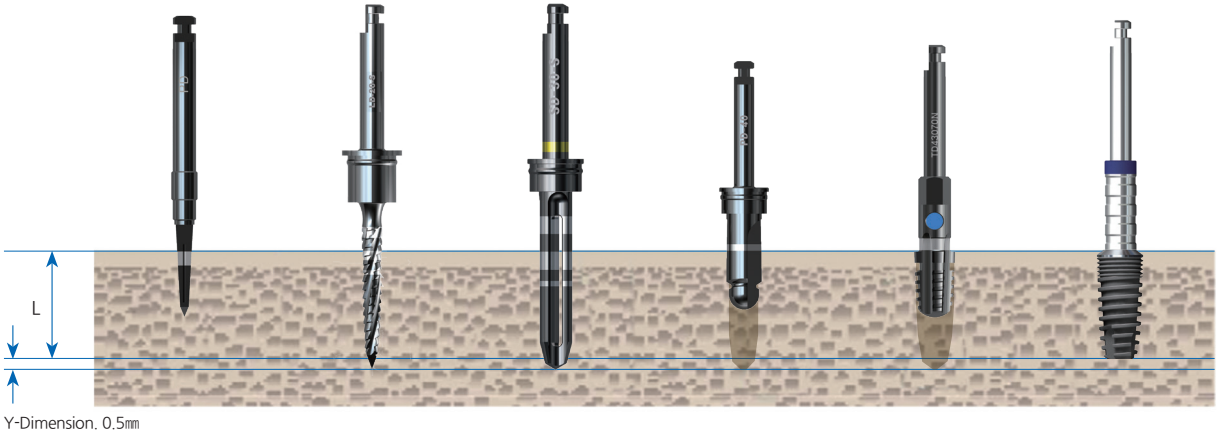
It is always recommended to use 1 step shorter stopper for drilling than the length of fixture to be installed, to make sure the fixture will be submerged 0.5~1.0mm deeper than the bone level.

UT **F3.6** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Final (F3.6)	Tap (F3.6)	Fixture Driver
Hard	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶		
Soft		▶	▶			

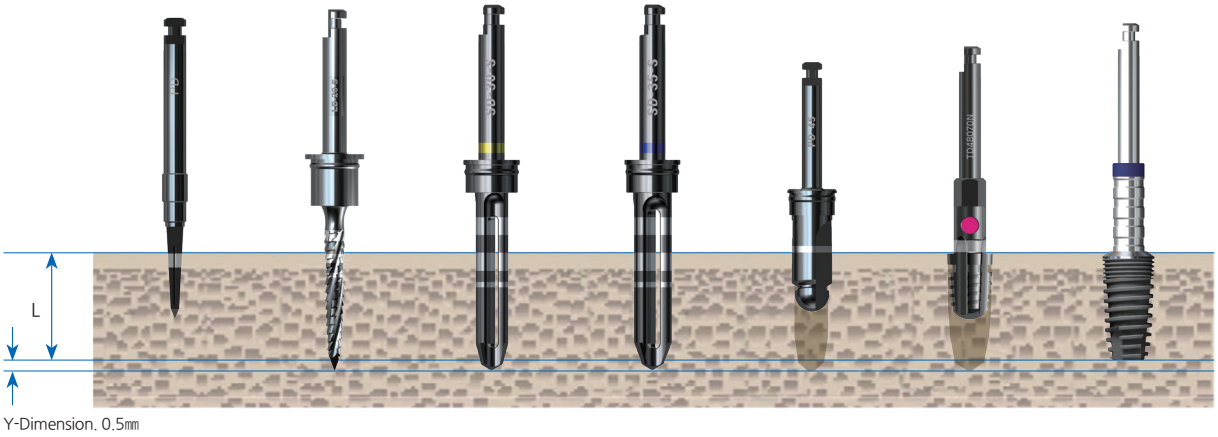
UT **F4.3** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Final (F4.0)	Tap (F4.3)	Fixture Driver
Hard	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶		
Soft		▶	▶			

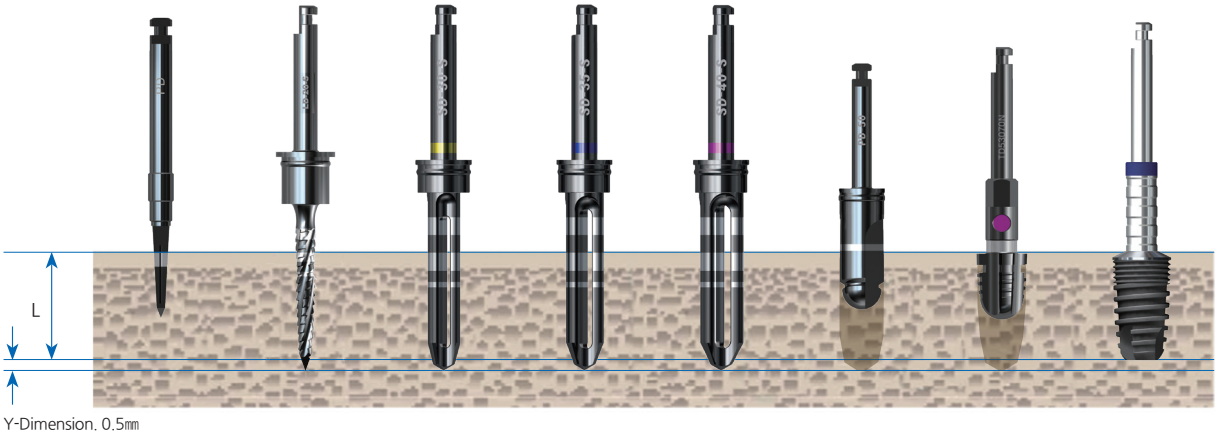
It is always recommended to use 1 step shorter stopper for drilling than the length of fixture to be installed, to make sure the fixture will be submerged 0.5~1.0mm deeper than the bone level.

UT **F4.8** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Collecting (F4.0)	Final (F4.5)	Tap (F4.8)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶	▶		
Soft		▶	▶	▶			

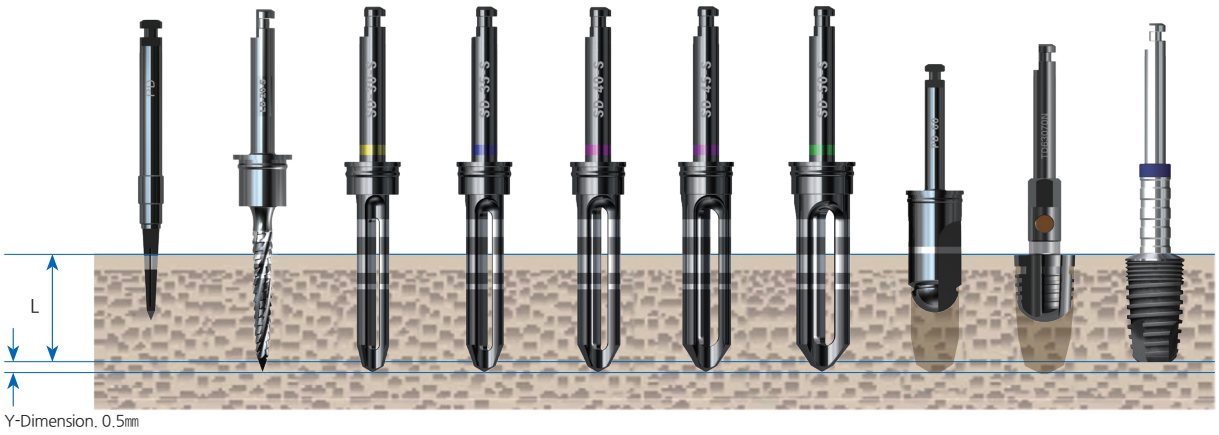
UT **F5.3** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Collecting (F4.0)	Collecting (F4.5)	Final (F5.0)	Tap (F5.3)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶	▶	▶		
Soft		▶	▶	▶	▶			

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

UT **F6.3** Surgical Sequence



Bone Quality	Point	Lindemann	Collecting (F3.6)	Collecting (F4.0)	Collecting (F4.5)	Collecting (F5.0)	Collecting (F5.5)	Final (F6.0)	Tap (F6.3)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal		▶	▶	▶	▶	▶	▶	▶		
Soft		▶	▶	▶	▶	▶	▶			

MEMO

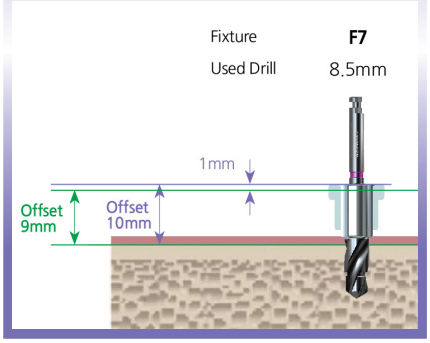
IU IMPLANT SURGICAL PROCEDURE FOR DIGITAL DENTISTRY

IU Surgical Procedure of IU for Digital Dentistry

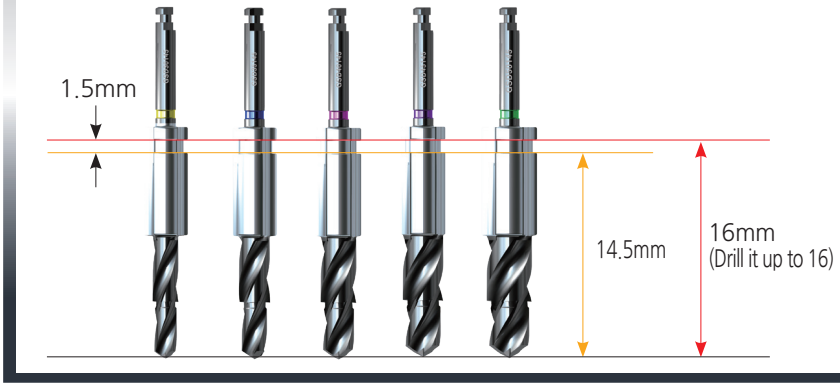
- 2 types of metal sleeves are provided according to the diameter of the guide hole.
  - Regular Sleeve : F3.6/F4.0/F4.5/F5.0
  - Wide Sleeve : F5.5/F6.0
- Select the length of drills according to the offset.

Fixture Length (mm)						
	7.5		8.5	10	11.5	13
Offset (mm)	↓	Offset (mm)	↓	↓	↓	↓
10	7.5	9	Used Drill Length : Use a drill with the same length as the fixture.			
			8.5	10	11.5	13
11.5	8.5	10.5	Used Drill Length : Use a drill 1.5mm longer than the fixture length.			
			10	11.5	13	14.5
13	10	12	Used Drill Length : Use a drill 3mm longer than the fixture length.			
			11.5	13	14.5	14.5 (Drill it up to 16)

- The L7.5mm fixture has offsets of 10/11.5/13mm, distinguishing it from other lengths of fixtures. It shares the same surgical procedure as the F8.5 fixture.



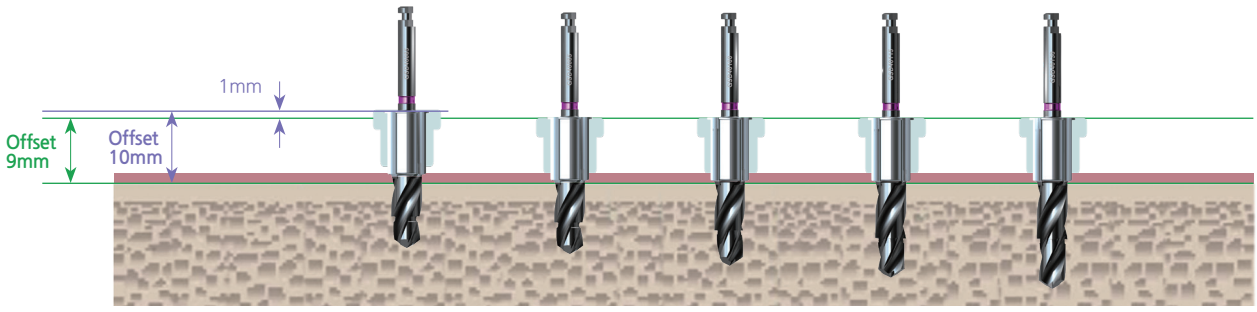
- 14.5mm drill does not have a drill stopper, and can drill up to 16mm by using the 1.5mm marked line.



▶The drills that are included in the WAGA kit has a standard length of Offset 9mm. Therefore, use the drill selectively in accordance with the guide and offset below.
▶ Warantec Guide can use sleeve and sleeveless selectively.

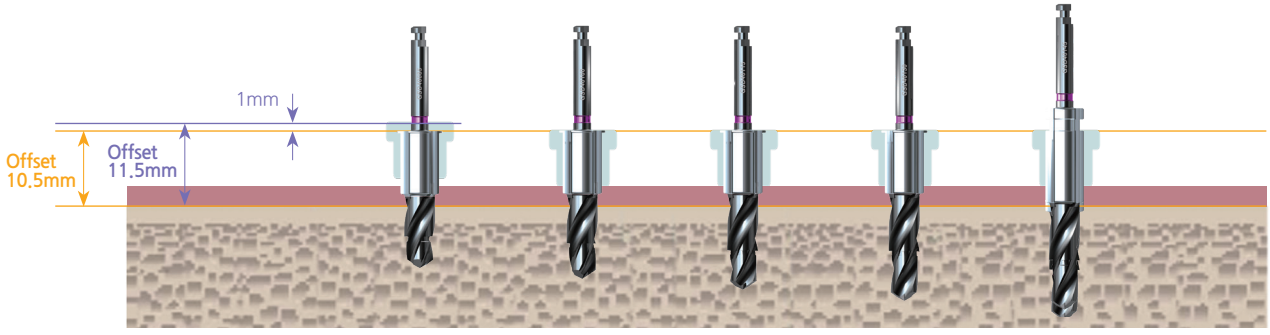
Offset 9mm

Fixture	F7	F8.5	F10	F11.5	F13
Used Drill	8.5mm	8.5mm	10mm	11.5mm	13mm



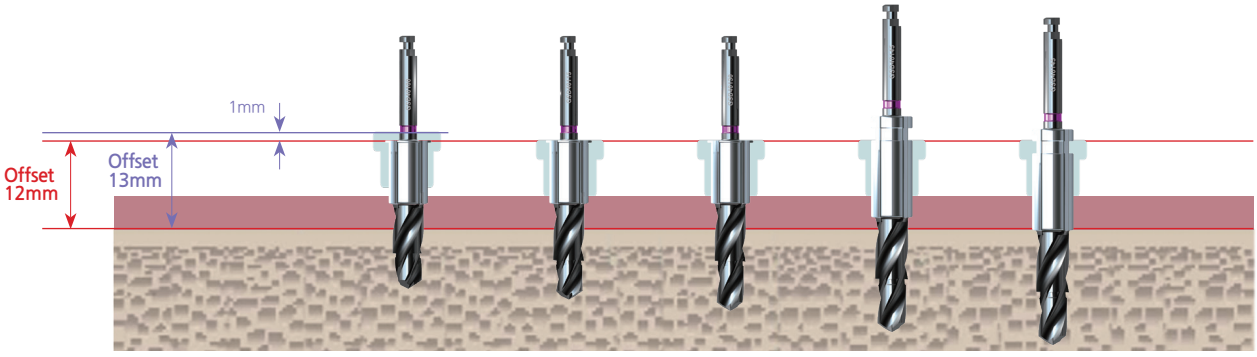
Offset 10.5mm

Fixture	F7	F8.5	F10	F11.5	F13
Used Drill	8.5mm	10mm	11.5mm	13mm	14.5mm

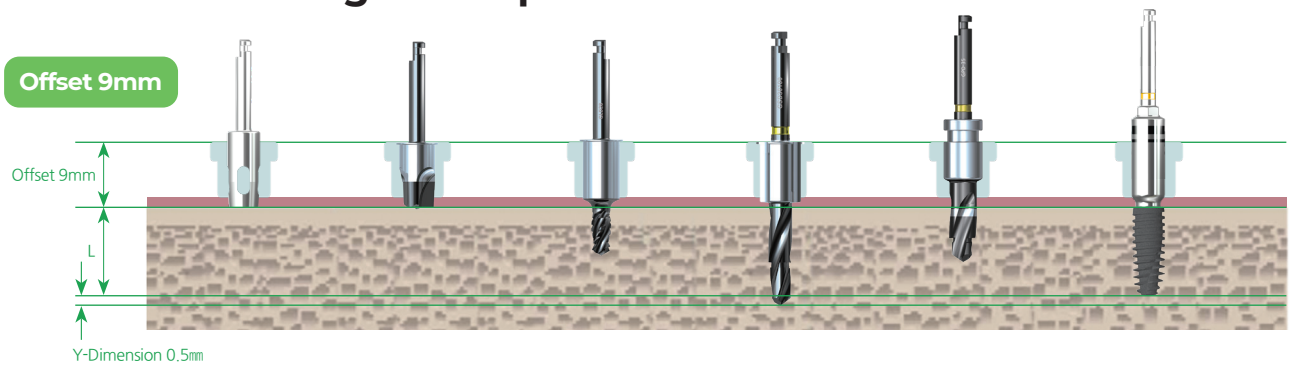


Offset 12mm

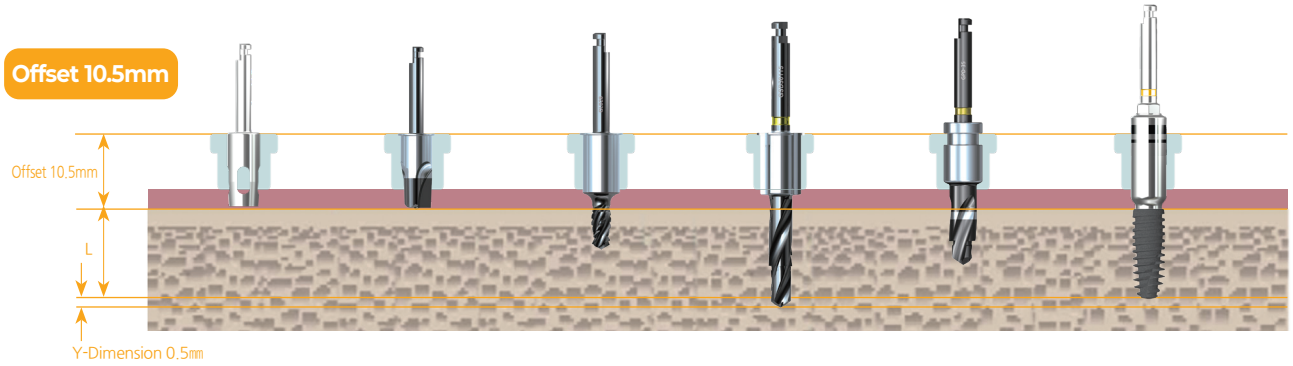
Fixture	F7	F8.5	F10	F11.5	F13
Used Drill	10mm	11.5mm	13mm	14.5mm	16mm



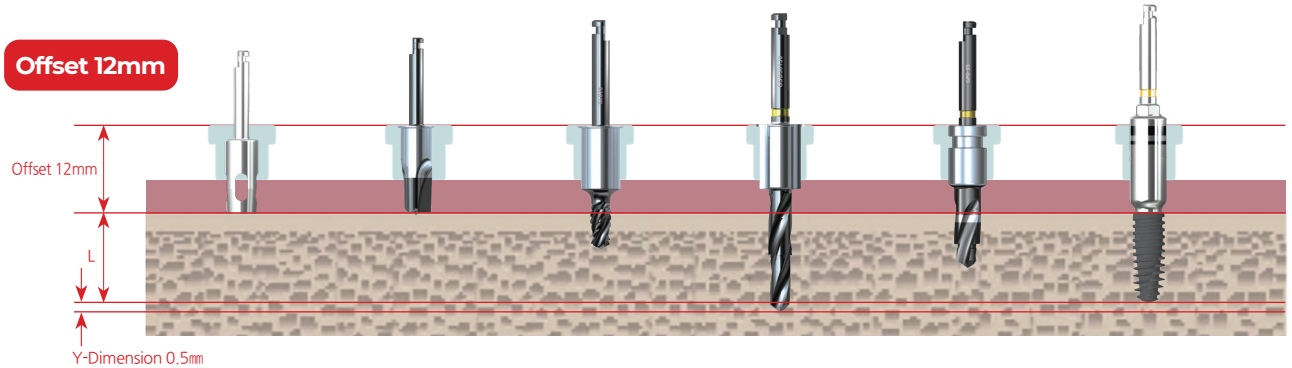
IU F3.6X10㎜ Surgical Sequence



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 10mm	Final Drill F3.6	Fixture Driver
Hard	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶		
Soft	▶	▶	▶	▶		

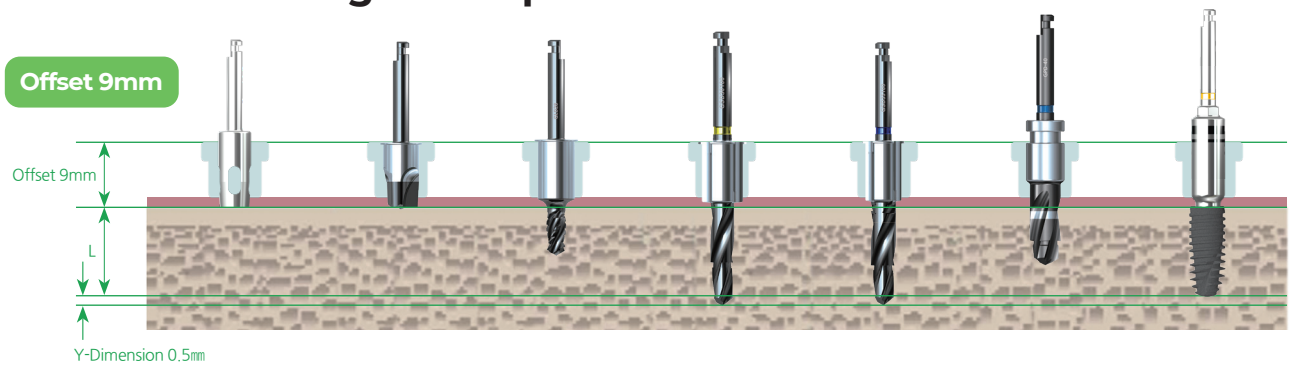


Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 11.5mm	Final Drill F3.6	Fixture Driver
Hard	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶		
Soft	▶	▶	▶	▶		

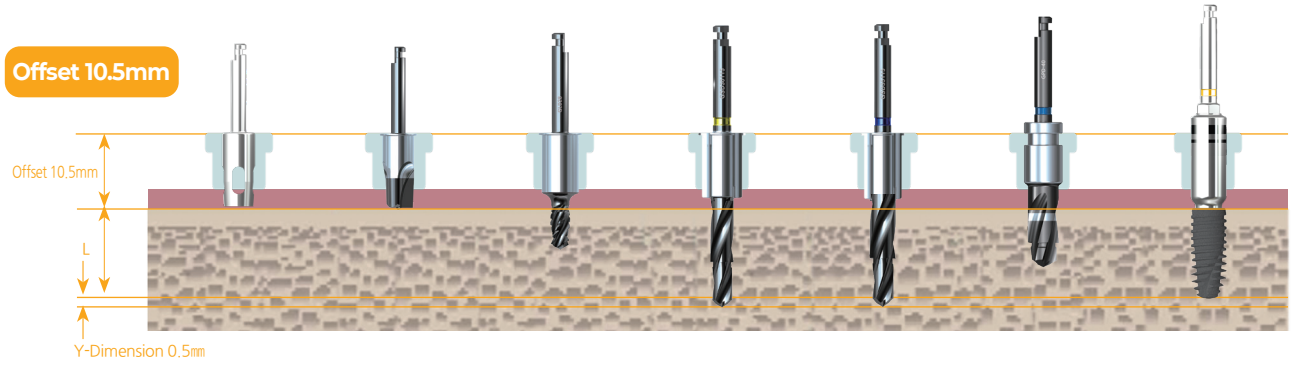


Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 13mm	Final Drill F3.6	Fixture Driver
Hard	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶		
Soft	▶	▶	▶	▶		

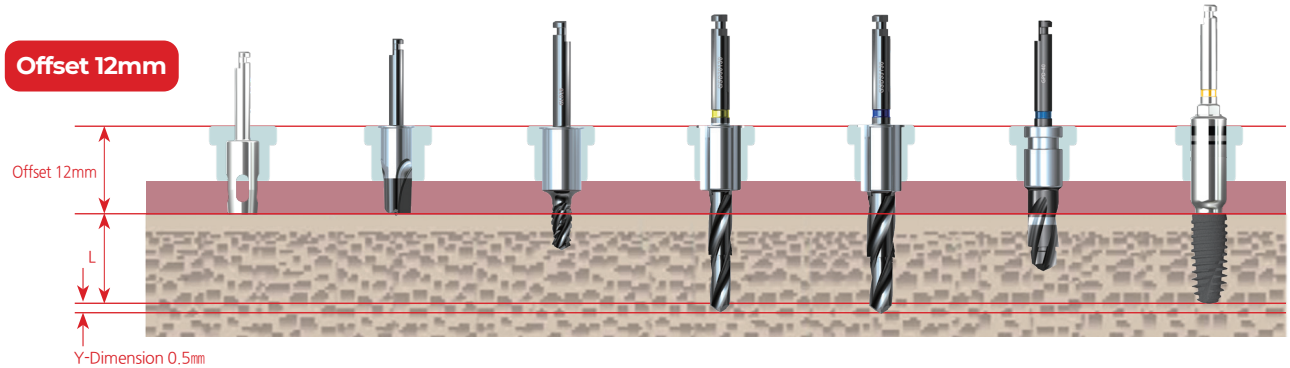
IU F4.0X10mm Surgical Sequence



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 10mm	F4.0 10mm	Final Drill F4.0	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶			

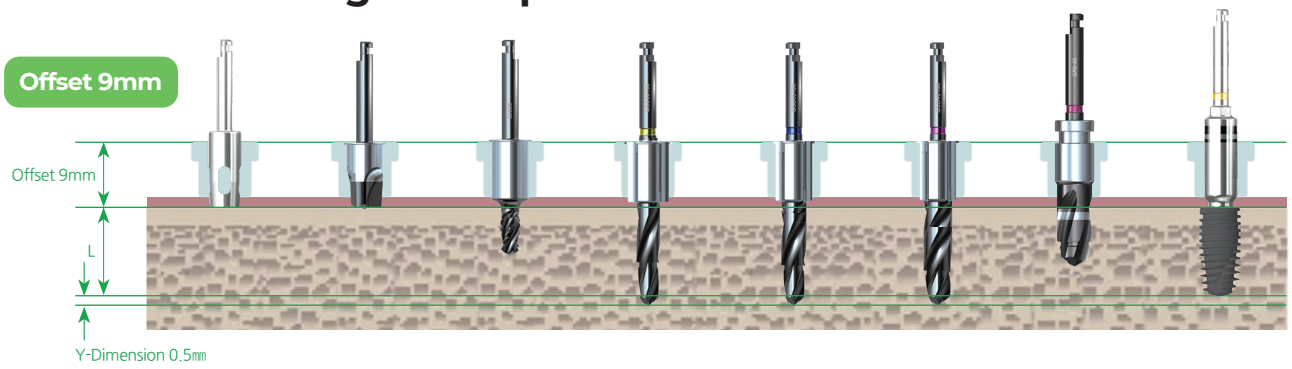


Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 11.5mm	F4.0 11.5mm	Final Drill F4.0	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶			

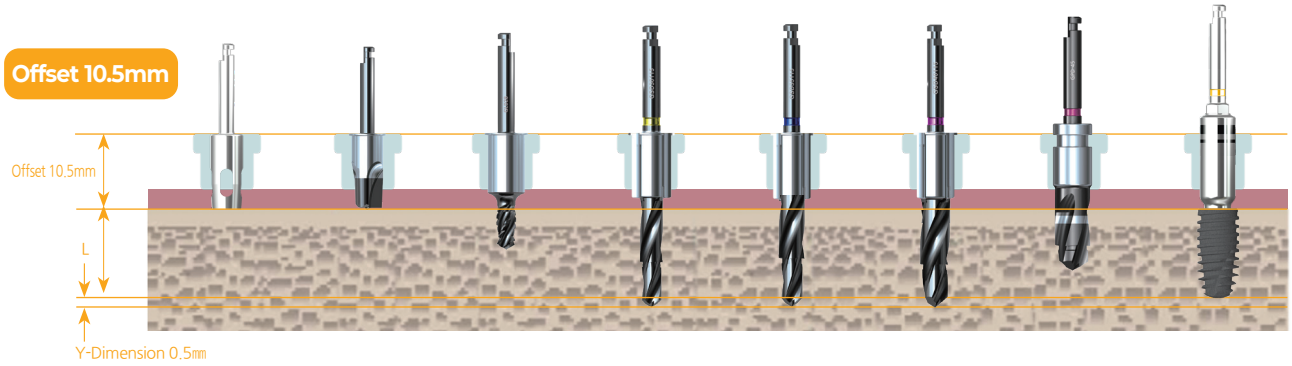


Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 13mm	F4.0 13mm	Final Drill F4.0	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶			

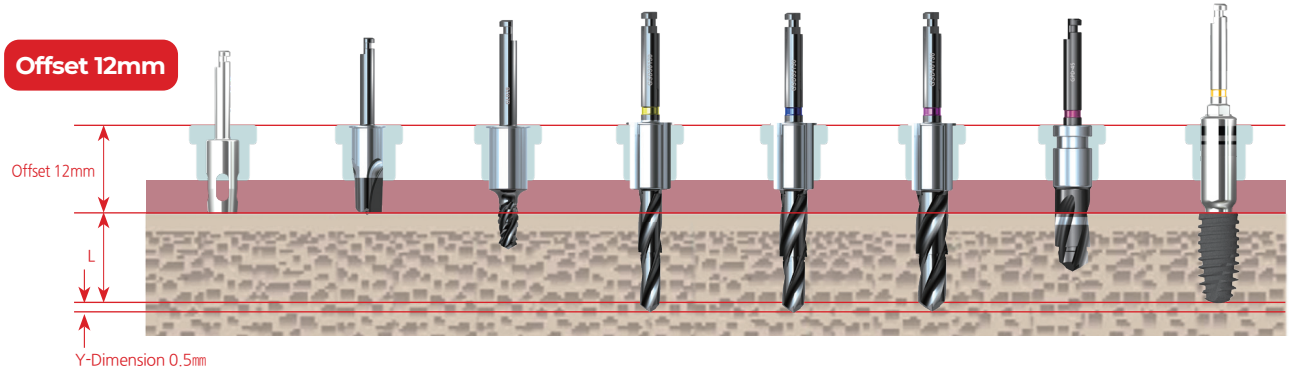
IU F4.5X10mm Surgical Sequence



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 10mm	F4.0 10mm	F4.5 10mm	Final Drill F4.5	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶			

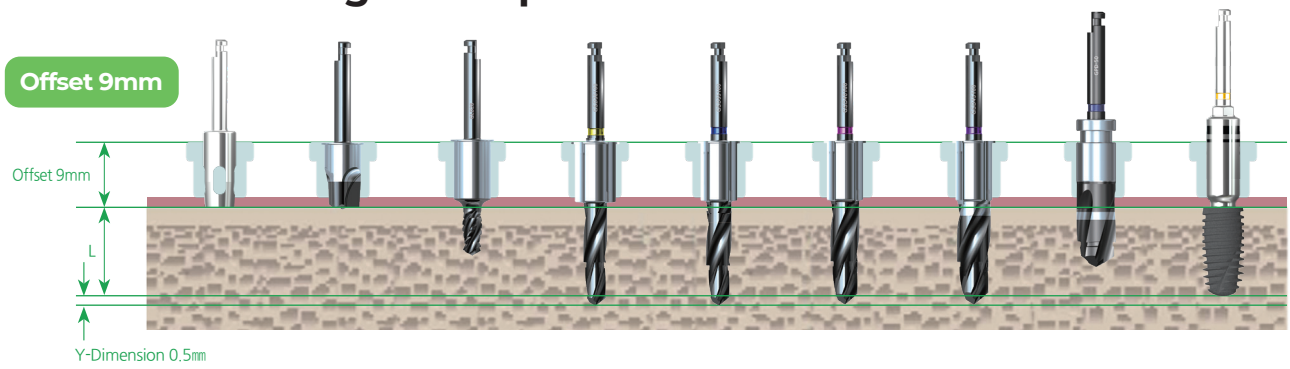


Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 11.5mm	F4.0 11.5mm	F4.5 11.5mm	Final Drill F4.5	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶			

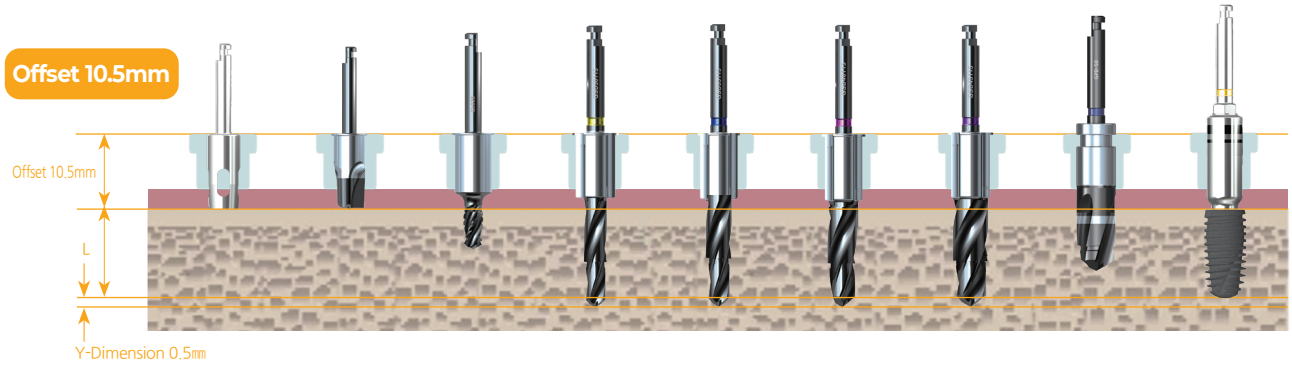


Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 13mm	F4.0 13mm	F4.5 13mm	Final Drill F4.5	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶			

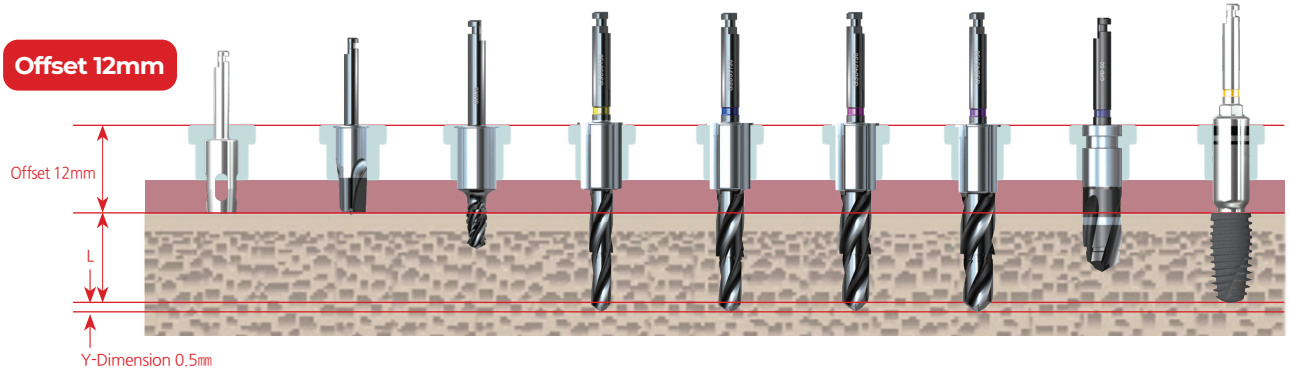
IU F5.0X10mm Surgical Sequence



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 10mm	F4.0 10mm	F4.5 10mm	F5.0 10mm	Final Drill F5.0	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶	▶			



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 11.5mm	F4.0 11.5mm	F4.5 11.5mm	F5.0 11.5mm	Final Drill F5.0	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶	▶			



Bone Quality	Tissue Punch	Flattening Drill	Initial Drill	F3.6 13mm	F4.0 13mm	F4.5 13mm	F5.0 13mm	Final Drill F5.0	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶	▶			

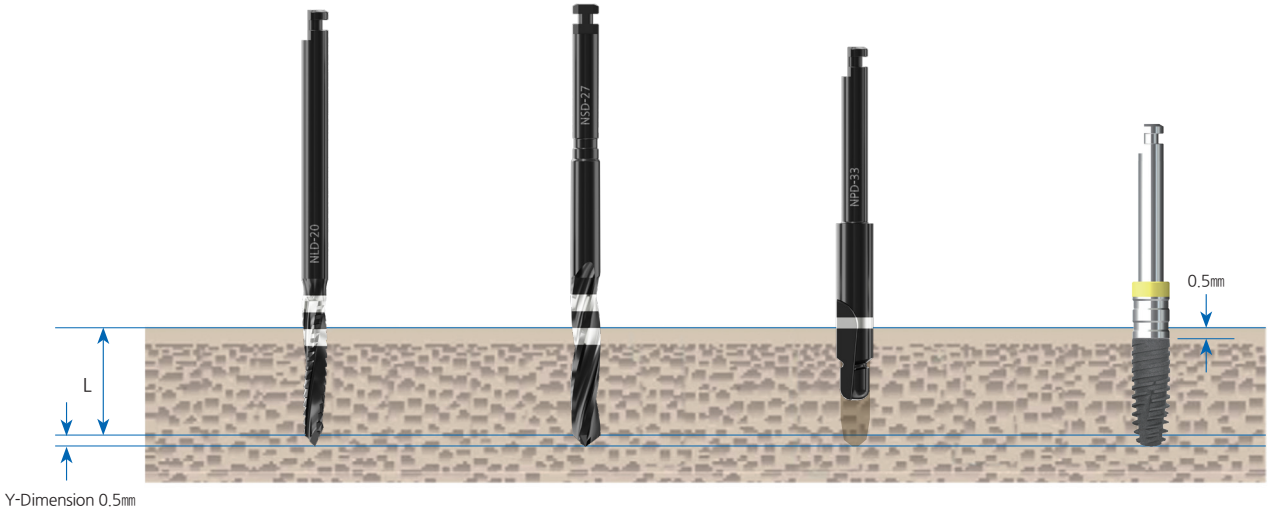
MEMO

IU IMPLANT SURGICAL PROCEDURE WITH STOPPER DRILL KIT

Surgical Sequence for IU IMPLANT

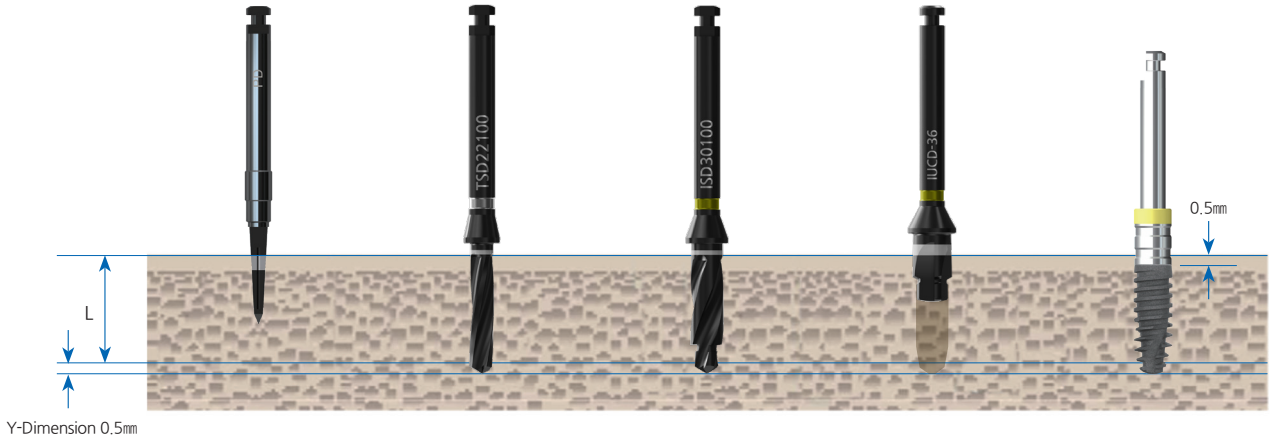
IU Stopper Drill

IU **F3.3** Surgical Sequence



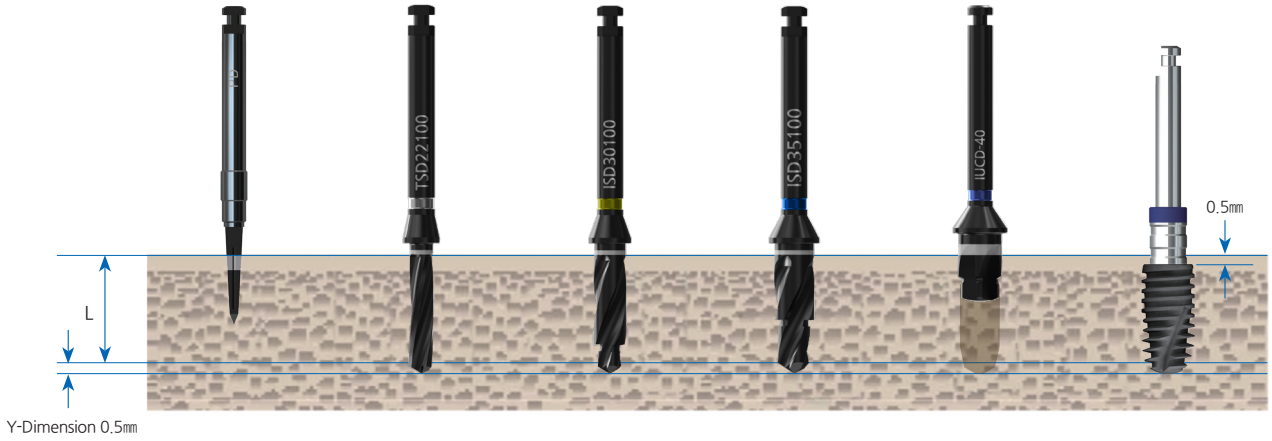
Bone Quality	NLD-20	NSD-20 (ø2.7)	NPD-33 (F3.6)	Fixture Driver
Hard	▶	▶	▶	Implant Placement
Normal	▶	▶		
Soft	▶			

IU **F3.6** Surgical Sequence



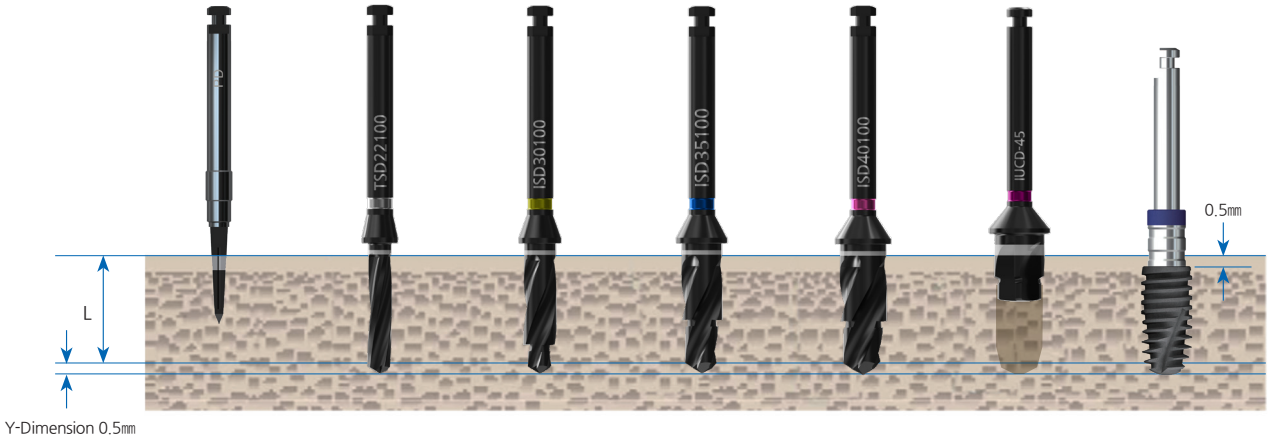
Bone Quality	Point Drill	Initial Drill (ø2.2)	Final Drill (F3.6)	Cortical Drill (F3.6)	Fixture Driver
Hard	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶		
Soft	▶	▶			

IU **F4.0** Surgical Sequence



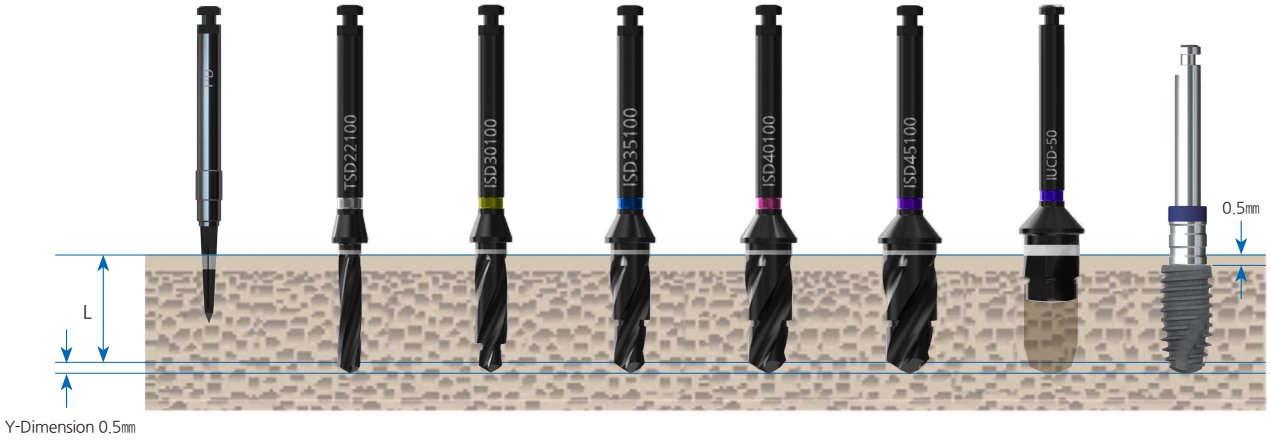
Bone Quality	Point Drill	Initial Drill (ø2.2)	Final Drill (F3.6)	Final Drill (F4.0)	Cortical Drill (F4.0)	Fixture Driver
Hard	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶		
Soft	▶	▶	▶			

IU **F4.5** Surgical Sequence



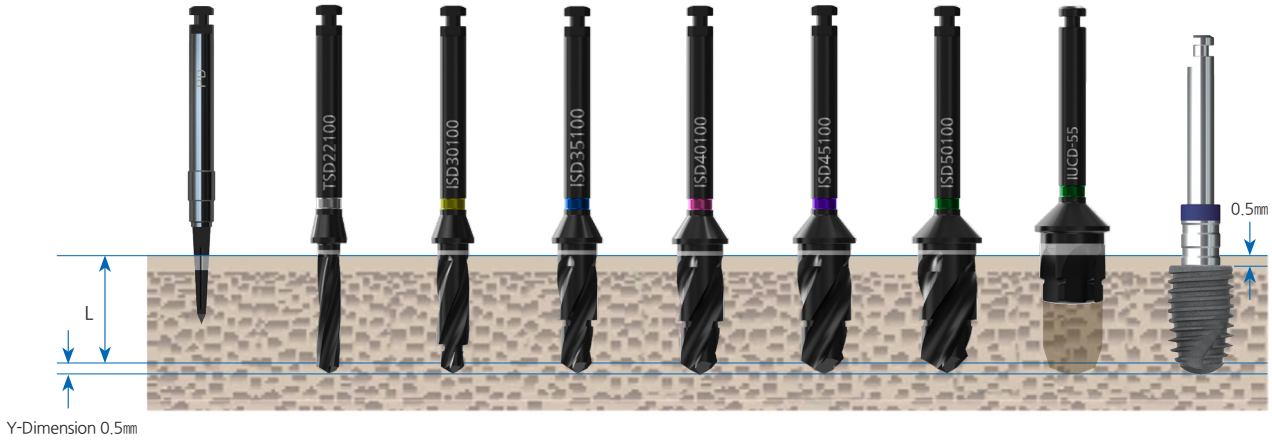
Bone Quality	Point Drill	Initial Drill (ø2.2)	Final Drill (F3.6)	Final Drill (F4.0)	Final Drill (F4.5)	Cortical Drill (F4.5)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶			

IU **F5.0** Surgical Sequence



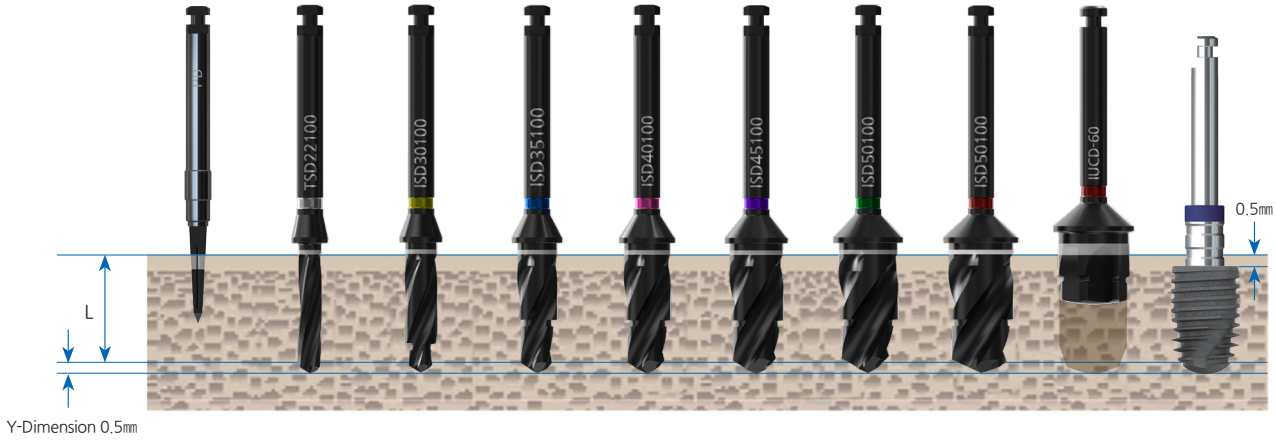
Bone Quality	Point Drill	Initial Drill (ø2.2)	Final Drill (F3.6)	Final Drill (F4.0)	Final Drill (F4.5)	Final Drill (F5.0)	Cortical Drill (F5.0)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶			

IU **F5.5** Surgical Sequence



Bone Quality	Point Drill	Initial Drill (ø2.2)	Final Drill (F3.6)	Final Drill (F4.0)	Final Drill (F4.5)	Final Drill (F5.0)	Final Drill (F5.5)	Cortical Drill (F5.5)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶	▶			

IU **F6.0** Surgical Sequence



Bone Quality	Point Drill	Initial Drill (ø2.2)	Final Drill (F3.6)	Final Drill (F4.0)	Final Drill (F4.5)	Final Drill (F5.0)	Final Drill (F5.5)	Collecting (F6.0)	Final (F6.0)	Fixture Driver
Hard	▶	▶	▶	▶	▶	▶	▶	▶	▶	Implant Placement
Normal	▶	▶	▶	▶	▶	▶	▶	▶		
Soft	▶	▶	▶	▶	▶	▶	▶			

MEMO

Kit

SURGICAL KIT

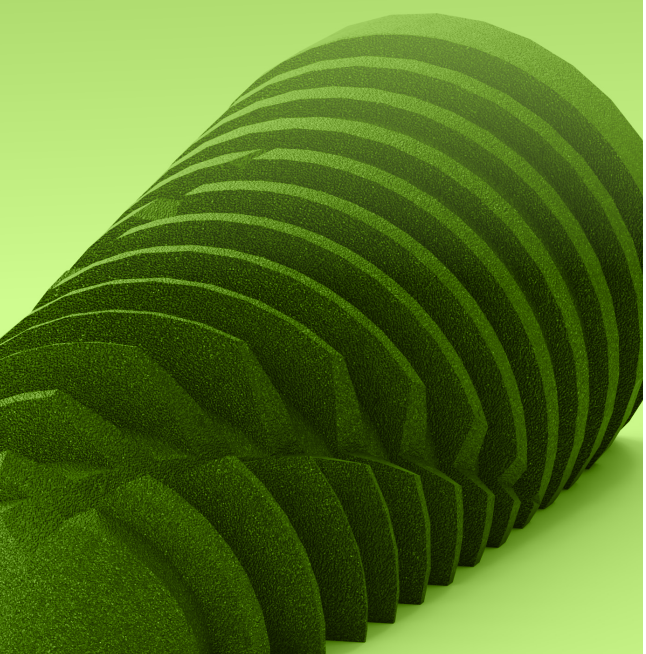
1. **IU FULL KIT**
2. **IU STANDARD KIT**
3. **IU COMPACT KIT**
4. **IU STOPPER DRILL KIT**
5. **IUT KIT**
6. **UT COMPACT KIT**
7. **WAGA KIT**

PROSTHETICS KIT

8. **WPK**
   (WARANTEC PROSTHETICS KIT)
9. **PM KIT**
   (PROSTHETICS MULTI KIT)

OTHERS

10. **WISE KIT**
    (WARANTEC IMPLANT'S SINUS ELEVATION KIT)
11. **WISE KIT Ⅱ**
    (WARANTEC IMPLANT'S SINUS ELEVATION KIT Ⅱ)
12. **WIRE KIT**
    (WARANTEC IMPLANT'S RESCUE FOR EMERGENCY KIT)
13. **ESP KIT**
    (EASY SCREWMENTATION POSITIONER KIT)
14. **KAR KIT**
    (KINETIC ABUTMENT REMOVER KIT)



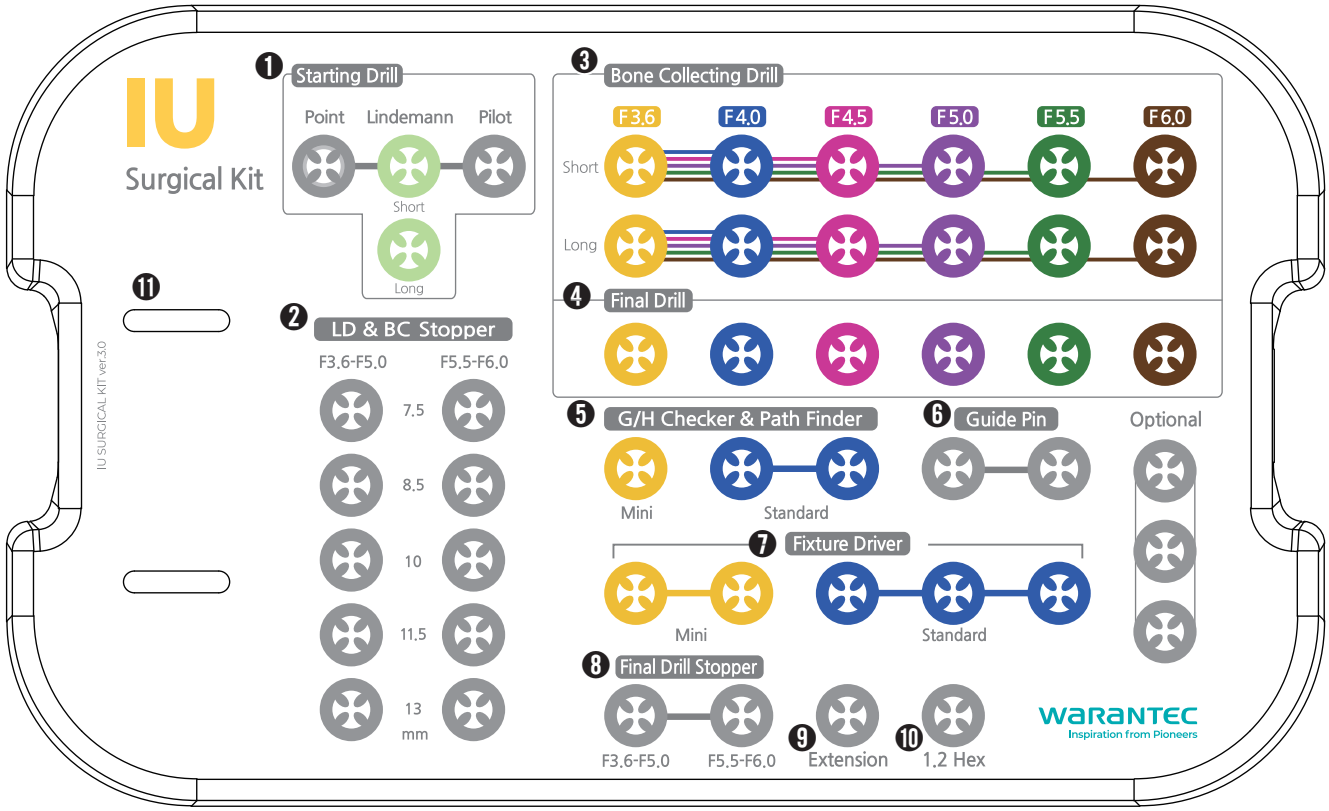
IU Full Kit

Full Kit for IU Implant

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

Full kit for IU implant(F3.6-F6.0)

Art No. : IU KIT



1 Point Drill Lindemann Drill Pilot Drill

PD LD-20-S LD-20-L PD-30

2 LD & BC Drill Stopper

[F3.3-F5.0]	DS-7	DS-8.5	DS-10	DS-11.5	DS-13
[F5.5-F6.0]	DSW-7	DSW-8.5	DSW-10	DSW-11.5	DSW-13

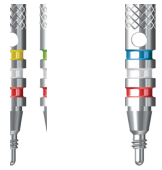
3 Bone Collecting Drill

F3.6	F4.0	F4.5	F5.0	F5.5	F6.0
SD-30-S	SD-35-S	SD-40-S	SD-45-S	SD-50-S	SD-55-S
SD-30-L	SD-35-L	SD-40-L	SD-45-L	SD-50-L	SD-55-L

4 Final Drill

PD-35 PD-40 PD-45 PD-50 PD-55 PD-60

5 G/H Checker & Path Finder

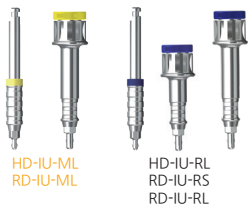


IC0GHCA IC0GHC

6 Guide Pin

GPS

7 Fixture Driver



HD-IU-ML
RD-IU-ML

HD-IU-RL
RD-IU-RS
RD-IU-RL

8 Final Drill Stopper

PS-3.5 PSW-3.5

9 Extension

WDE

10 1.2 Hex

HD-TW-L

11 Torque Wrench

TW

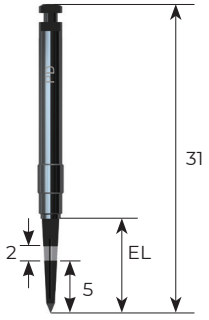
(Bottom of the Case)

Depth Gauge

DP

Point Drill

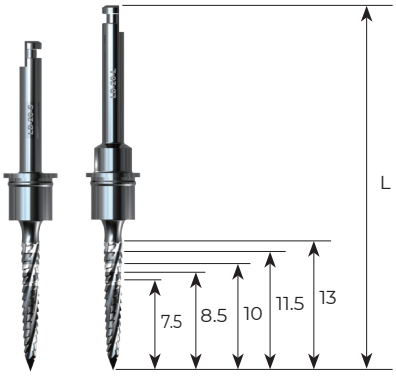
- Initial drill for marking the implantation point easily on the cortical bone without slipping when making an implantation hole.



Art No.	Diameter(mm)	Edge Length(mm)
PD	1.5	9.5

Lindemann Drill

- Make a drill hole to determine the implantation depth and axis.
- Drilling as deep as the length of the fixture is required.
- Short and long drill are provided for the convenience of the user.
- Angle correction is available while drilling.

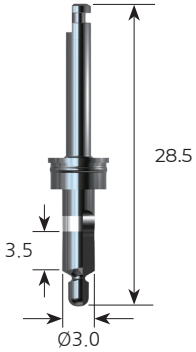


Short Long

Art No.	Length(mm)	Type
LD-20-S	30	Short
LD-20-L	33	Long

Pilot Drill

- Maintain the path of the previous drill when using the next drill.
- There is a guide at the bottom of the drill to widen the diameter of the upper part of the hole with a small diameter, and the top of the drill has a straight blade wider than the guide.

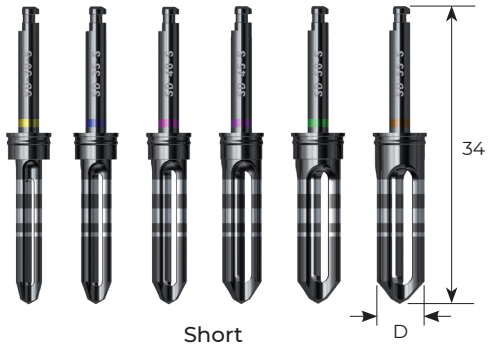


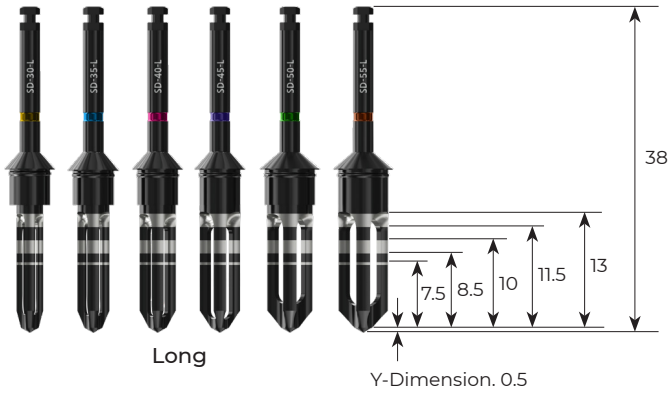
Art No.
PD-30

Bone Collecting Drill

- Sufficient amount of autogenous bone can be harvested simultaneously when drilling.
- Designed to minimize the heat while drilling.
- It is easy to adjust the drilling depth by using the drill stopper.
- Short and long drills are provided for the convenience of the user.

Fixture	F3.6	F4.0	F4.5	F5.0	F5.5	F6.0
Short	SD-30-S	SD-35-S	SD-40-S	SD-45-S	SD-50-S	SD-55-S
Long	SD-30-L	SD-35-L	SD-40-L	SD-45-L	SD-50-L	SD-55-L
Diameter(mm)	3.0	3.6	4.1	4.6	5.2	5.7





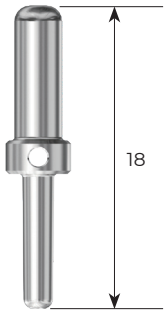
Final Drill

- Drill for expanding the cortical bone after using the bone collecting drill.
- Use it for making the final holes on hard bones.
- Use in consideration of the diameter of the fixture.

Fixture	F3.6	F4.0	F4.5	F5.0	F5.5	F6.0
Art No.	PD-35	PD-40	PD-45	PD-50	PD-55	PD-60
Diameter(mm)	3.6	4.1	4.6	5.1	5.6	6.1

Guide Pin

- Used to identify the direction and placement of the bone preparation after using the Lindemann Drill.



Art No.
GPS

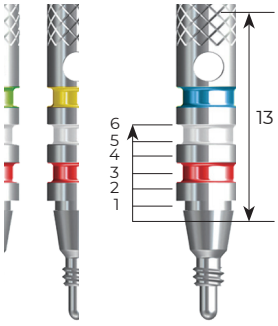
Drill Extension

- An instrument to extend the length of the drill and the driver of the machine.
- Incomplete assembly may cause bending or fracture of the extension.
- The length can be extended by 15.4mm when the drill extension is assembled.

Art No.	Extendable Length(mm)
WDE	15.4

Gingiva Height Checker & Path Finder

- Check the height of the gingiva with the indicated color line.
- In the multiple case, assemble with the fixture that is placed firstly and confirm the precise implantation path.



Mini Standard

Art No.	Application
IC0GHCA	MINI
IC0GHC	STANDARD

Bone Collecting Drill Stopper

- The length of the drill stopper indicates the actual length remaining when the drill stopper is assembled with the bone collecting drill.
- Color coding is applied to each stopper for the convenience of users to easily identify the length and relocate it back into the kit.

Art No.							Application
DS-5	DS-6	DS-7	DS-8.5	DS-10	DS-11.5	DS-13	F3.3-F5.0
DSW-5	-	DSW-7	DSW-8.5	DSW-10	DSW-11.5	DSW-13	F5.5-F6.0

Optional

- This stopper makes actual length stop which excluding the Y-dimension length.
- **It is always recommended to use 1 step shorter stopper for drilling than the length of fixture to be installed, to make sure the fixture will be submerged 0.5~1.0mm deeper than the bone leve.**

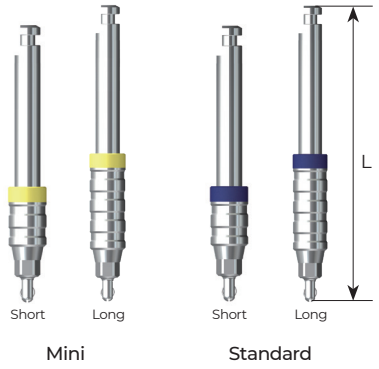
Final Drill Stopper

- The length of the drill stopper indicates the depth of bone to be removed when the drill stopper is assembled with the final drill.

Art No.	Application
PS-3.5	F3.3-F5.0
PSW-3.5	F5.5-F6.0

Fixture Driver Machine Type

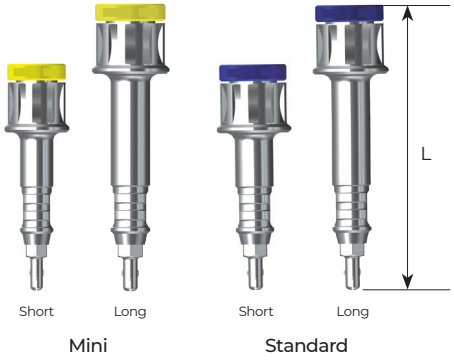
- Used when placing the fixture with a machine.
- Connections are divided into F3.3(Mini)/F4.0-6.0(Standard).
- Short and long drivers are provided for the convenience of the user.



Art No.	Length(mm)	Application	
HD-IU-MS	25	Mini	＊Optional
HD-IU-ML	29		
HD-IU-RS	25	Standard	＊Optional
HD-IU-RL	29		

Fixture Driver Torque Wrench Type

- Used when placing the fixture with a torque wrench.
- Must check that it is completely assembled before use.
  Incomplete assembly may cause fracture due to heavy stress.
- Be careful, as excessive torque may cause damage to the internal hex.
- Short and long drivers are provided for the convenience of the user.

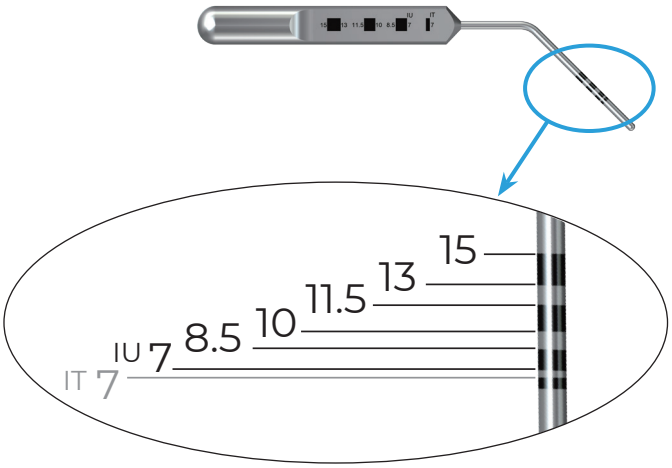


Art No.	Length(mm)	Application	
RD-IU-MS	13.2	Mini	＊Optional
RD-IU-ML	18.8		
RD-IU-RS	13.2	Standard	＊Optional
RD-IU-RL	18.8		

Depth Gauge

- Instrument for measuring the drilling depth. (7-13mm)

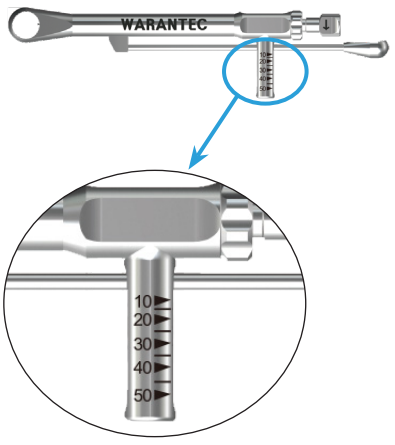
Art No.
DP



Torque Wrench

- Assemble it to the adapter or driver to check torque during implantation or screw tightening.
- Apply torque by pulling the bar to the indicated torque value line the user wants to apply.
- Rotate the pivot hand of the torque wrench to change the torque direction.

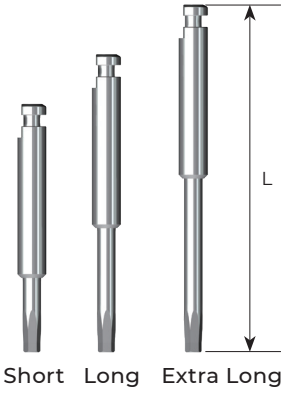
Art No.
TW



1.2 Hex Driver Machine Type

* Optional

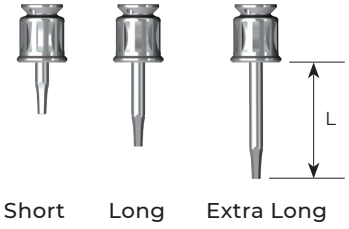
- Driver for Machine.
- Used for cover screw, abutment screw, and healing abutment.
- The hex tip is designed to tolerate the maximum torque of 45Ncm. Exceeding the torque range may damage the tip.
- Various lengths are available for the convenience of the user.



Art.No	Length(mm)
HD-LT-S	20
HD-LT-L	24
HD-LT-LL	28

1.2 Hex Driver Torque Wrench type

- Can be used for both torque wrench & hand driver.
- Used for cover screw, abutment screw, and healing abutment.
- The hex tip is designed to tolerate the maximum torque of 45 Ncm. Exceeding the torque range may damage the tip.
- Various lengths are available for the convenience of the user.



Art.No	Length(mm)	
HD-TW-S	8mm	* Optional
HD-TW-L	13mm	
HD-TW-LL	18mm	* Optional

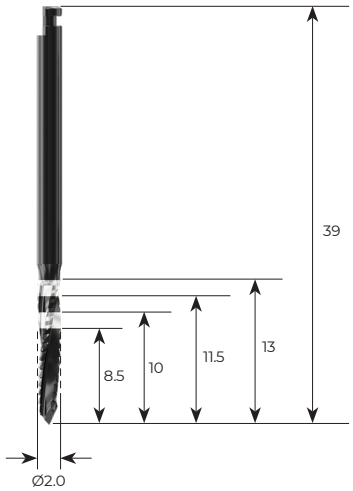
ADDITIONAL PRODUCTS

Narrow Lindemann Drill

* Optional

- Lindemann drill designated for IU F3.3.
- Make a drill hole to determine the implantation depth and axis.
- Drilling as deep as the length of the fixture is required.
- Angle correction is available while drilling.

Art.No	Application
NLD-20	IU F3.3

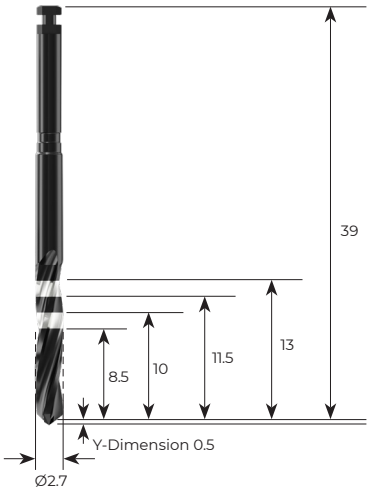


Narrow Straight Drill

* Optional

- Straight drill designated for IU F3.3.
- Drilling as deep as the length of the fixture is required.
- The color coding on the upper part of drill is indicating the diameter and the main fixture that is being used.

Art.No	Application
NSD-27	IU F3.3

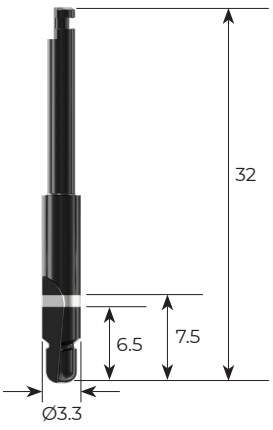


Narrow Final Drill

* Optional

- Final drill designated for IU F3.3.
- Drill for expanding the cortical bone.
- Use it after making the final holes on hard bones.

Art.No	Application
NPD-33	IU F3.3



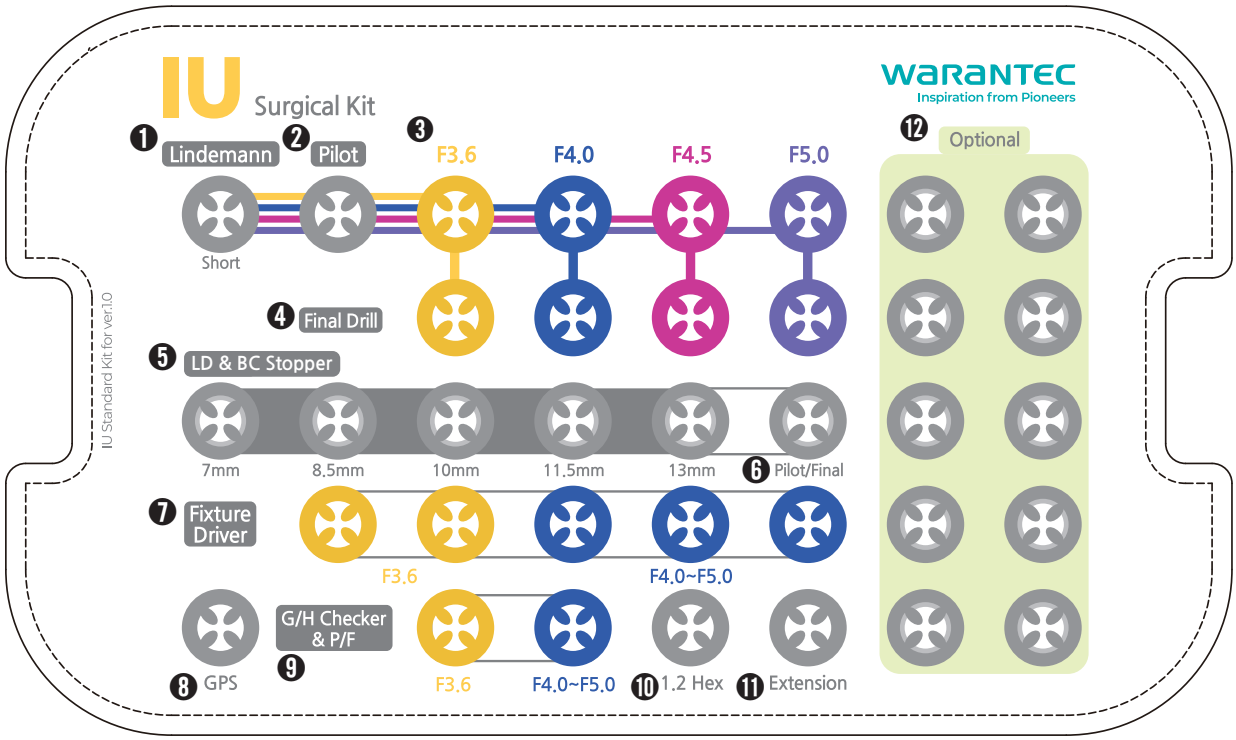
IU Standard Kit

Standard Kit for IU Implant

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

Standard Kit for IU Implant(F3.6-F5.0)

Art No. : IU KIT-S



❶ Lindemann Drill

LD-20-S

❷ Pilot Drill

PD-30

❸ Bone Collecting Drill

F3.6 SD-30-S | F4.0 SD-35-S | F4.5 SD-40-S | F5.0 SD-45-S

❹ Final Drill

PD-35 | PD-40 | PD-45 | PD-50

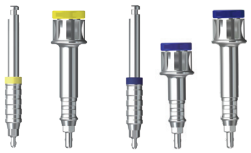
❺ LD & BC Drill Stopper

DS-7 | DS-8.5 | DS-10 | DS-11.5 | DS-13

❻ Pilot/Final Drill Stopper

PS-3.5

❼ Fixture Driver



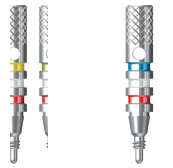
HD-IU-ML
RD-IU-ML

HD-IU-RL
RD-IU-RS
RD-IU-RL

❽ Guide Pin

GPS

❾ G/H Checker & Path Finder



IC0GHCA | IC0GHC

❿ 1.2 Hex

HD-TW-L

⓫ Extension

WDE

(Bottom of the Case)

Torque Wrench

TW

Depth Gauge

DP

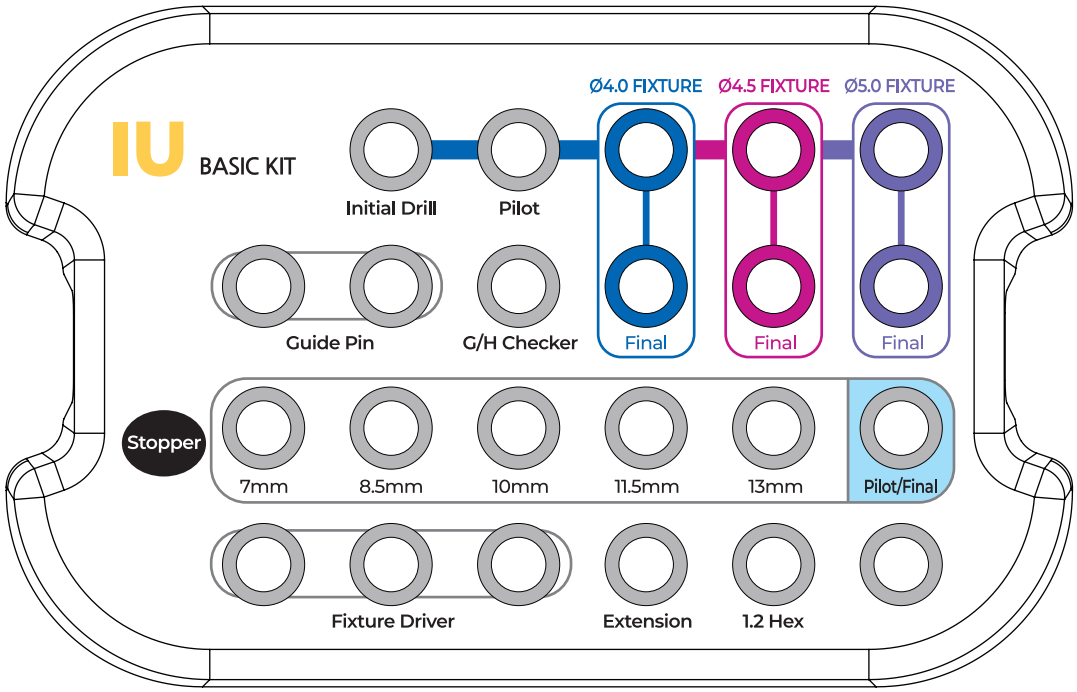
IU Compact Kit

Compact Kit for IU Implant

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

Compact Kit for IU Implant(F4.0-F5.0)

Art No. : IU BASIC KIT



❶ Lindemann Drill

LD-20-S

❷ Pilot Drill

PD-30

❸ Bone Collecting Drill

SD-35-S SD-40-S SD-45-S

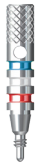
❹ Final Drill

PD-40 PD-45 PD-50

❺ Guide Pin

GPS

❻ G/H Checker & Path Finder



IC0GHC

❼ LD & BC Drill Stopper

DS-7 DS-8.5 DS-10 DS-11.5 DS-13

❽ Pilot/Final Drill Stopper

PS-3.5

❾ Fixture Driver

HD-IU-RL
RD-IU-RS
RD-IU-RL

❿ Extension

WDE

⓫ 1.2 Hex

HD-TW-L

(Bottom of the Case)

Depth Gauge

DP

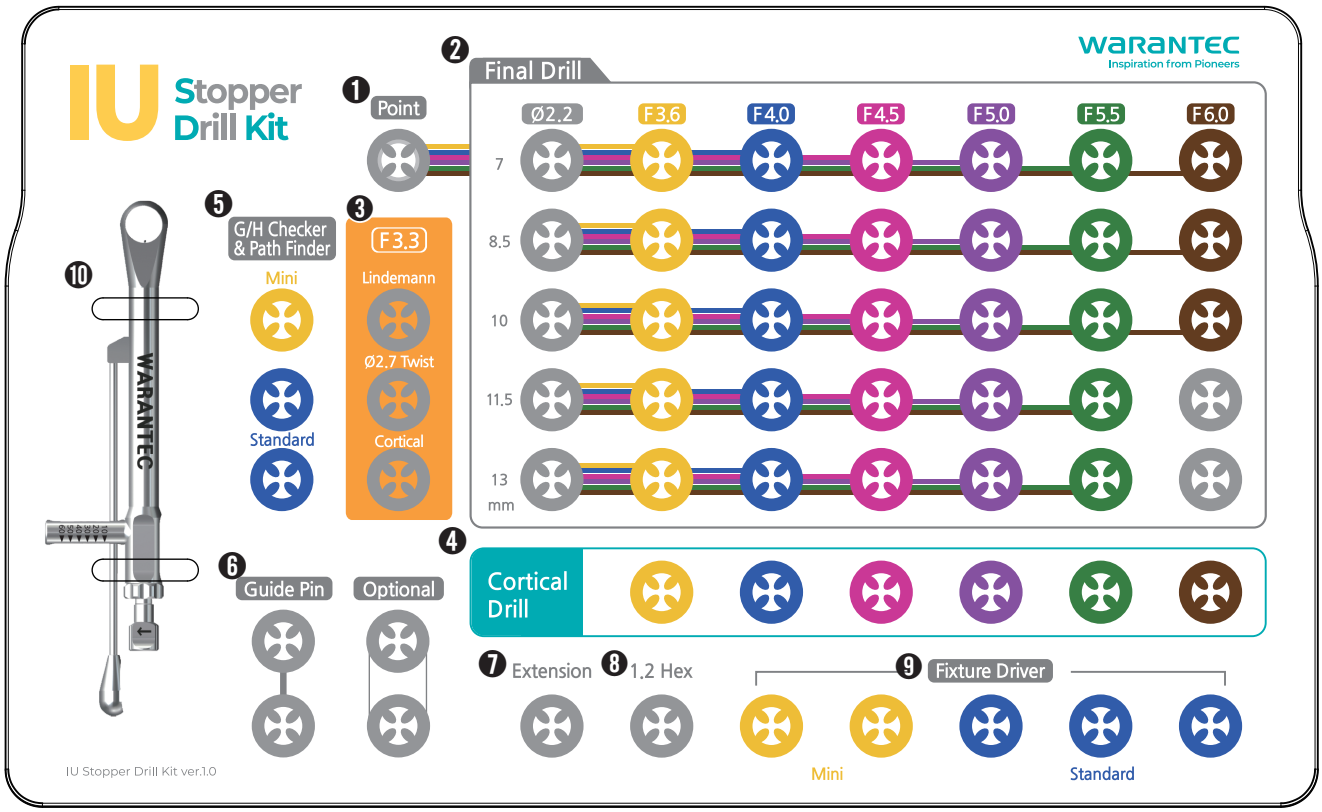
Torque Wrench

TW

IU Stopper Drill Kit

IU Stopper Drill Kit

Art No. : IU SD KIT



1 Point Drill

PD

2 Final Drill

Ø2.2	F3.6	F4.0	F4.5	F5.0	F5.5	F6.0
TSD22070	ISD30070	ISD35070	ISD40070	ISD45070	ISD50070	ISD55070
TSD22085	ISD30085	ISD35085	ISD40085	ISD45085	ISD50085	ISD55085
TSD22100	ISD30100	ISD35100	ISD40100	ISD45100	ISD50100	ISD55100
TSD22115	ISD30115	ISD35115	ISD40115	ISD45115	ISD50115	
TSD22130	ISD30130	ISD35130	ISD40130	ISD45130	ISD50130	

3 F3.3

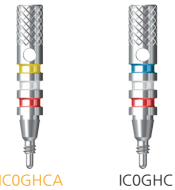
Lindemann Ø2.7 Twist Cortical

NLD-20 NSD-27 NPD-33

4 Cortical Drill

IUCD-36 IUCD-40 IUCD-45 IUCD-50 IUCD-55 IUCD-60

5 G/H Checker & Path Finder



IC0GHCA IC0GHC

6 Guide Pin

GPC

7 Extension

WDE

8 1.2 Hex

HD-TW-L

9 Fixture Driver

HD-IU-ML
RD-IU-ML

HD-IU-RL
RD-IU-RS
RD-IU-RL

10 Torque Wrench

TW

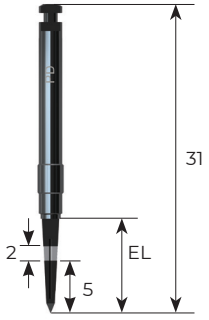
(Bottom of the Case)

Depth Gauge

DP

Point Drill

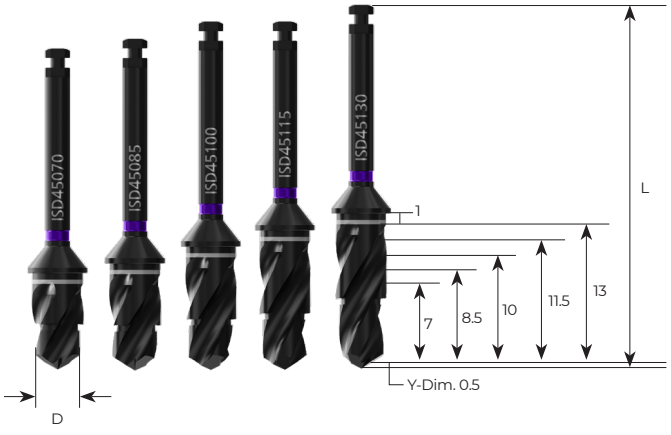
- Initial drill for marking the implantation point easily on the cortical bone without slipping when making an implantation hole.



Art No.	Diameter(mm)	Edge Length(mm)
PD	1.5	9.5

Stopper Final Drill

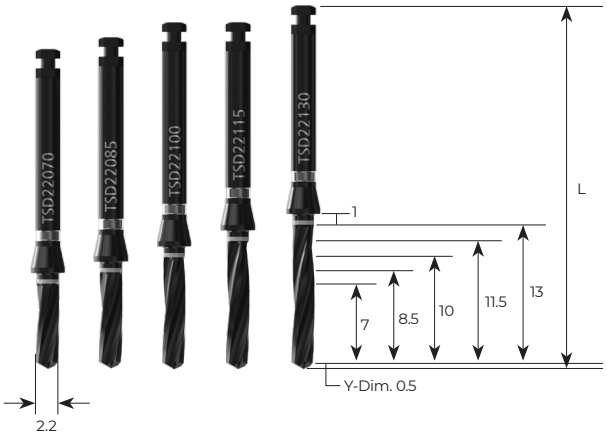
- Designed in accordance with the shape of the fixture to be implanted
- Easy identification of drills with color coding
- Adjusts drilling depth with a 1mm margin up to the fixed stopper part, including a laser-marked line



Fixture	F3.6	F4.0	F4.5	F5.0	F5.5	F6.0	Drill Length
7.0	ISD30070	ISD35070	ISD40070	ISD45070	ISD50070	ISD55070	30
8.5	ISD30085	ISD35085	ISD40085	ISD45085	ISD50085	ISD55085	31
10.0	ISD30100	ISD35100	ISD40100	ISD45100	ISD50100	ISD55100	32.5
11.5	ISD30115	ISD35115	ISD40115	ISD45115	ISD50115		32.5
13.0	ISD30130	ISD35130	ISD40130	ISD45130	ISD50130		34
Diameter(mm)	2.95	3.6	4.2	4.8	5.3	5.8	

Twist Stopper Drill

- Ø2.2 drill used for initial drilling to the length of the fixture to be implanted.
- Adjusts drilling depth with a 1mm margin up to the fixed stopper part, including a laser-marked line



Art No.	Length(mm)
TSD22070	30
TSD22085	31
TSD22100	32.5
TSD22115	32.5
TSD22130	34

Stopper Cortical Drill

- Drill used for cortical bone removal in hard bone.
- Easy identification of drills with color coding

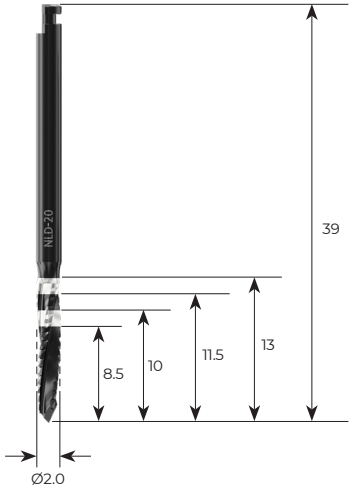
Art No.	Length(mm)	Diameter
IUCD-36	27.3	3.65
IUCD-40	27.3	4.15
IUCD-45	27.3	4.65
IUCD-50	27.3	5.15
IUCD-55	25.8	5.65
IUCD-60	25.8	6.15

Narrow Lindemann Drill

* Optional

- Lindemann drill designated for IU F3.3.
- Make a drill hole to determine the implantation depth and axis.
- Drilling as deep as the length of the fixture is required.
- Angle correction is available while drilling.

Art.No	Application
NLD-20	IU F3.3

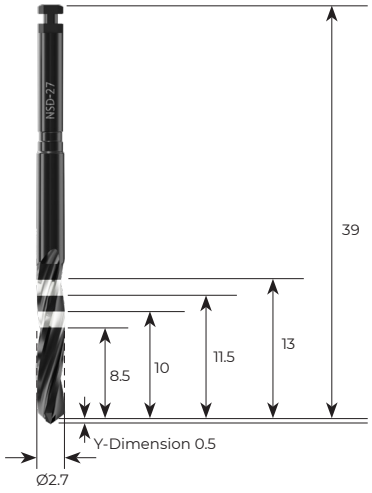


Narrow Straight Drill

* Optional

- Straight drill designated for IU F3.3.
- Drilling as deep as the length of the fixture is required.
- The color coding on the upper part of drill is indicating the diameter and the main fixture that is being used.

Art.No	Application
NSD-27	IU F3.3

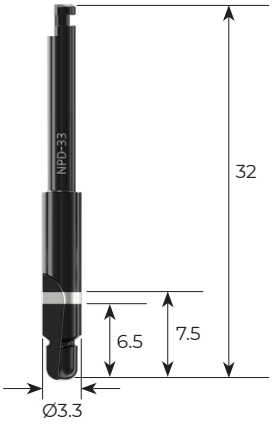


Narrow Final Drill

* Optional

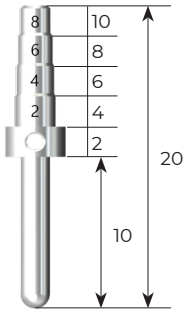
- Final drill designated for IU F3.3.
- Drill for expanding the cortical bone.
- Use it after making the final holes on hard bones.

Art.No	Application
NPD-33	IU F3.3



Guide Pin

- Used to identify the direction and placement of the bone preparation after using the Lindemann Drill.



Art No.
GPC

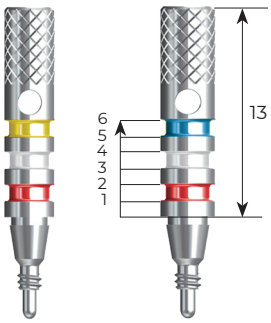
Drill Extension

- An instrument to extend the length of the drill and the driver of the machine.
- Incomplete assembly may cause bending or fracture of the extension.
- The length can be extended by 15.4mm when the drill extension is assembled.

Art No.	Extendable Length(mm)
WDE	15.4

Gingiva Height Checker & Path Finder

- Check the height of the gingiva with the indicated color line.
- In the multiple case, assemble with the fixture that is placed firstly and confirm the precise implantation path.

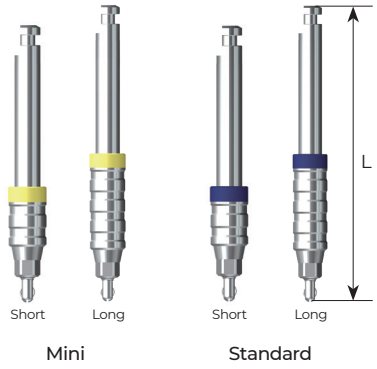


Mini Standard

Art No.	Application
IC0GHCA	MINI
IC0GHC	STANDARD

Fixture Driver Machine Type

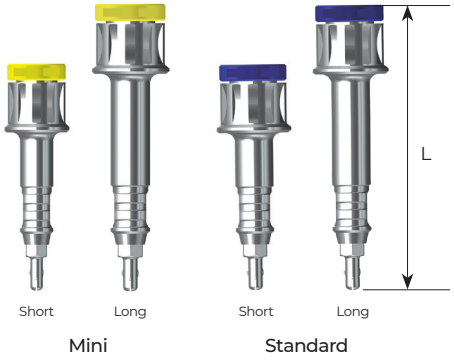
- Used when placing the fixture with a machine.
- Connections are divided into F3.3(Mini)/F4.0-6.0(Standard).
- Short and long drivers are provided for the convenience of the user.



Art No.	Length(mm)	Application	
HD-IU-MS	25	Mini	＊Optional
HD-IU-ML	29		
HD-IU-RS	25	Standard	＊Optional
HD-IU-RL	29		

Fixture Driver Torque Wrench Type

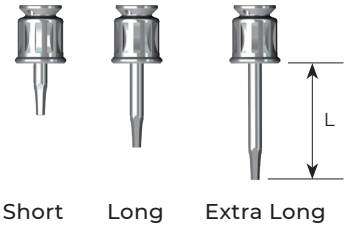
- Used when placing the fixture with a torque wrench.
- Must check that it is completely assembled before use.
  Incomplete assembly may cause fracture due to heavy stress.
- Be careful, as excessive torque may cause damage to the internal hex.
- Short and long drivers are provided for the convenience of the user.



Art No.	Length(mm)	Application	
RD-IU-MS	13.2	Mini	＊Optional
RD-IU-ML	18.8		
RD-IU-RS	13.2	Standard	＊Optional
RD-IU-RL	18.8		

1.2 Hex Driver Torque Wrench type

- Can be used for both torque wrench & hand driver.
- Used for cover screw, abutment screw, and healing abutment.
- The hex tip is designed to tolerate the maximum torque of 45 Ncm. Exceeding the torque range may damage the tip.
- Various lengths are available for the convenience of the user.

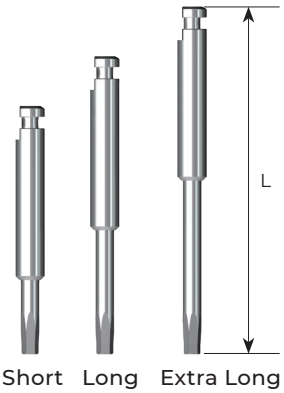


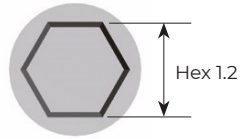
Art.No	Length(mm)	
HD-TW-S	8mm	＊Optional
HD-TW-L	13mm	
HD-TW-LL	18mm	＊Optional

1.2 Hex Driver Machine Type

＊Optional

- Driver for Machine.
- Used for cover screw, abutment screw, and healing abutment.
- The hex tip is designed to tolerate the maximum torque of 45Ncm. Exceeding the torque range may damage the tip.
- Various lengths are available for the convenience of the user.

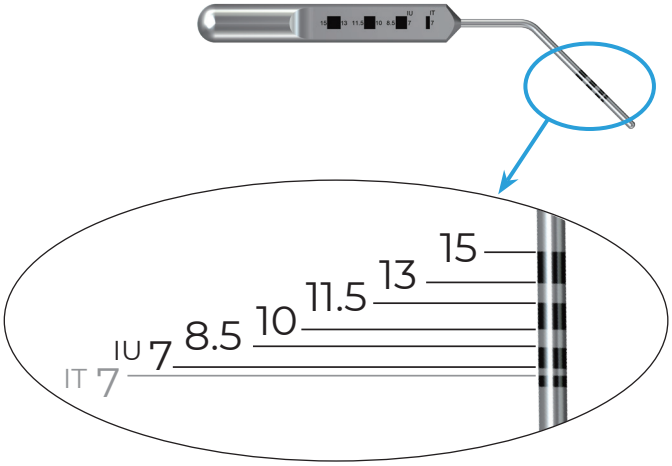




Art.No	Length(mm)
HD-LT-S	20
HD-LT-L	24
HD-LT-LL	28

Depth Gauge

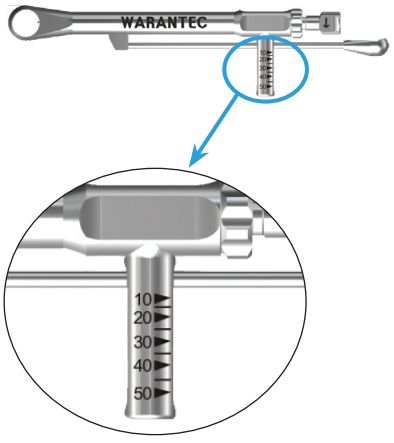
- Instrument for measuring the drilling depth. (7-13mm)



Art No.
DP

Torque Wrench

- Assemble it to the adapter or driver to check torque during implantation or screw tightening.
- Apply torque by pulling the bar to the indicated torque value line the user wants to apply.
- Rotate the pivot hand of the torque wrench to change the torque direction.



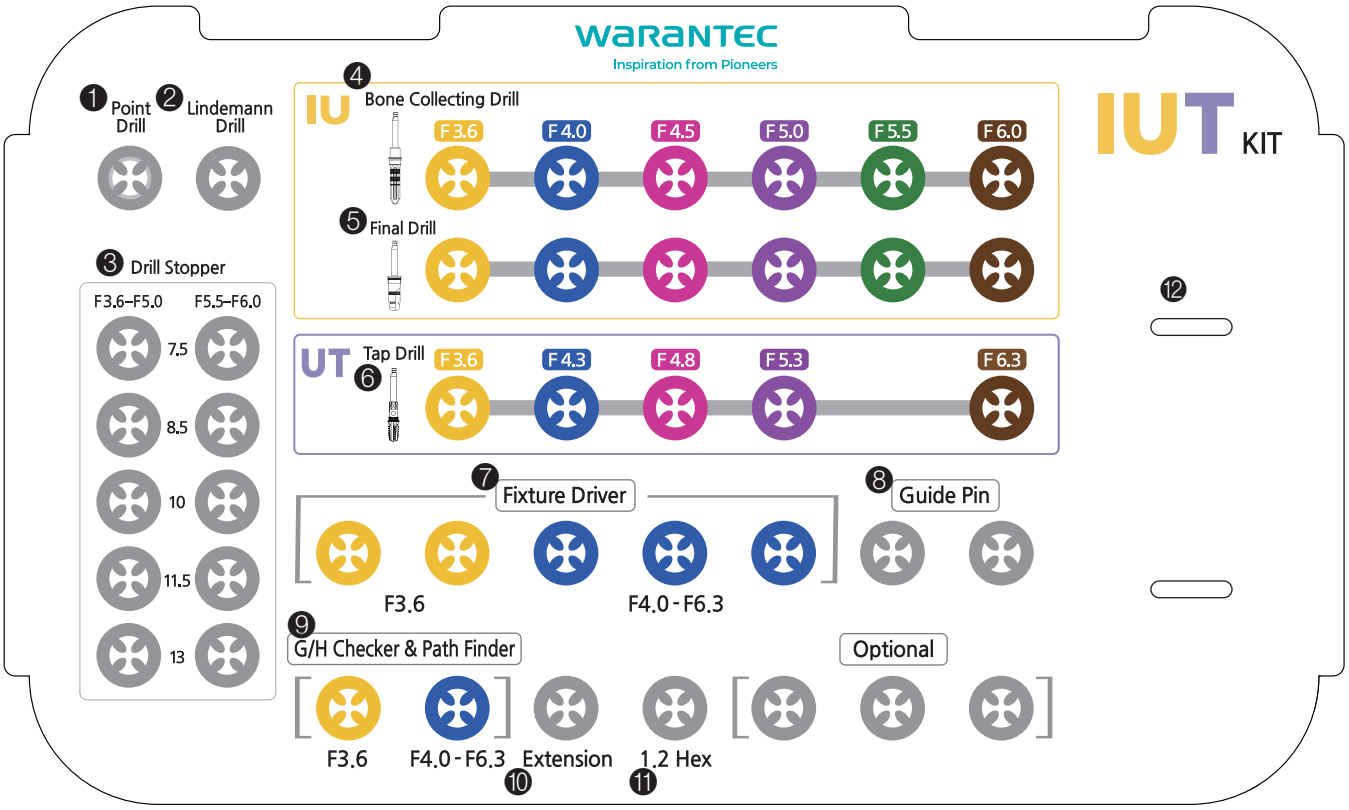
Art No.
TW

IUT Kit

Combined Surgical Kit for IU/UT Implant

Combined Surgical Kit for **IU/UT** Implant

Art No. : IUT KIT



1 Point Drill 2 Lindemann Drill

3 Bone Collecting Stopper

[F3.6-F5.0]	DS-7	DS-8.5	DS-10	DS-11.5	DS-13
[F5.5-F6.0]	DSW-7	DSW-8.5	DSW-10	DSW-11.5	DSW-13

4 Bone Collecting Drill

F3.6	F4.0	F4.5	F5.0	F5.5	F6.0
SD-30-S	SD-35-S	SD-40-S	SD-45-S	SD-50-S	SD-55-S

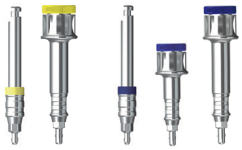
5 Final Drill

PD-35 PD- 40 PD-45 PD-50 PD-55 PD-60

6 Tap Drill

F3.6	F4.3	F4.8	F5.3	F6.3
TD36070N	TD43070N	TD48070N	TD53070N	TD63070N

7 Fixture Driver



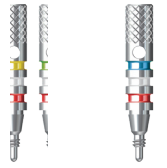
HD-IU-ML
RD-IU-ML

HD-IU-RL
RD-IU-RS
RD-IU-RL

8 Guide Pin

GPS

9 G/H Checker & Path Finder



IC0GHCA IC0GHC

10 Extension

WDE

11 1.2 Hex

HD-TW-L

12 Torque Wrench

TW

(Bottom of the Case)
Depth Gauge

DP

Tap Drill

- A dedicated tap for UT Implants.
- It is used to create a micro threaded channel in hard bone.
- Use it with the torque wrench after using the machine or the shank adapter.
- Tapping up to the bottom of the laser-marked line is recommended.
- Use 7mm(hard cortical bone), 10mm(thick and hard cortical bone)
- F3.6: Yellow, F4.3: Blue, F4.8: Pink, F5.3: Purple, F6.3: Brown

Fixture	F3.6	F4.3	F4.8	F5.3	F6.3
Art No.	TD36070N	TD43070N	TD48070N	TD53070N	TD63070N

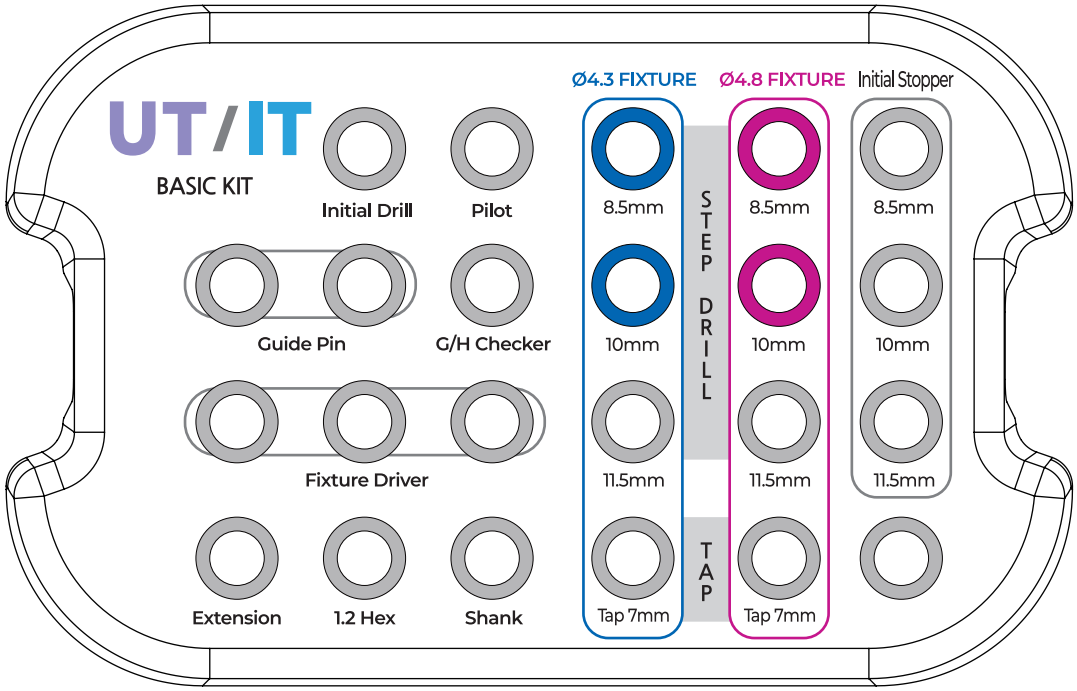
MEMO

UT Compact Kit

Compact Kit for UT Implant

Compact Kit for **UT Implant**(F4.3-F4.8)

Art No. : UT BASIC KIT



❶ Initial Drill

LD-20-L

❷ Pilot Drill

PD-30

❸ Step Drill

SD43085
SD43100
SD43115

SD48085
SD48100
SD48115

Tap Drill

TD43070N TD48070N

Stopper

S-43 S-48

❹ Initial Drill Stopper

DS-8.5 DS-10 DS-11.5

❺ Guide Pin

GPS

❻ G/H Checker & Path Finder

IC0GHC

❼ Fixture Driver

HD-IU-RL
RD-IU-RS
RD-IU-RL

❽ Drill Extension

WDE

❾ 1.2 Hex

HD-TW-L

❿ Shank Adapter

RA-HS-L

(Bottom of the Case)

Torque Wrench

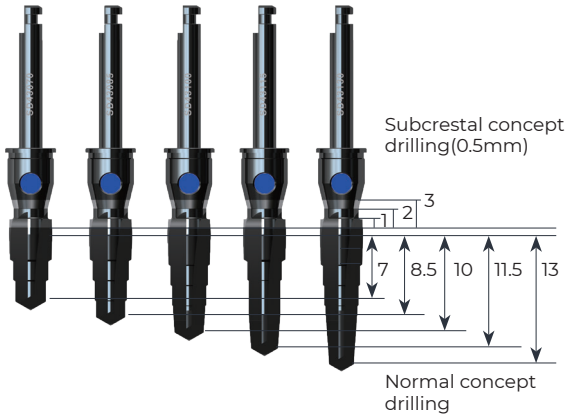
TW

Depth Gauge

DP

Step Drill

- IT Implant drill by diameter and length.
- Color coding indicates the fixture's diameter.
- F3.6: Yellow, F4.3: Blue, F4.8: Red, F5.3: Purple, F6.3: Brown



Art. No.					Length(mm)
F3.8	F4.3	F4.8	F5.3	F6.3	
SD38070 *	SD43070 *	SD48070 *	SD53070 *	SD63070 *	7
SD38085 *	SD43085	SD48085	SD53085 *	SD63085 *	8.5
SD38100 *	SD43100	SD48100	SD53100 *	SD63100 *	10
SD38115 *	SD43115	SD48115	SD53115 *		11.5
SD38130 *	SD43130 *	SD48130 *	SD53130 *		13

* : Optional

Step Drill Stopper

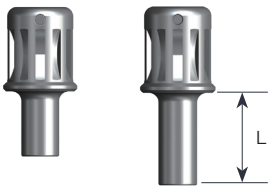
- An instrument that helps the precise drilling to the depth of the fixture when using the step drill.
- By connecting the stopper, the length of step drill will be 0.5 mm longer, and additionally, by adding the 0.5 mm of Y-dimension, it will be 1 mm longer. Therefore, users must be careful to apply it to the lower anatomical structure.

Art. No.	Application	Drill Stop
S-38 *	F3.6	Step Drill 7.0 ~13.0mm (+1.0mm)
S-43	F4.3	
S-48	F4.8	
S-53 *	F5.3	

* : Optional

Shank Adapter

- A connector that allows a machine driver to be assembled to a torque wrench.



Art. No.	Length	Type	
RA-HS-S	4.5	Short	＊Optional
RA-HS-L	9.2	Long	

WAGA Kit

Warantec Guide Kit

WAGA KIT

Warantec's Guide Kit can be used for the IU Implant System.
- Basic Composition : for the IU implant system

A separate kit is required for fixtures with a wide diameter.
- Warantec's Guide Kit Plus : F5.5, F6.0

Open type metal sleeve is convenient to use on the posterior area with a limit to opening the mouth.

Composed of 2 types of metal sleeves according to the diameter of guide hole.
- Regular Sleeve : F3.6, F4.0, F4.5, F5.0
- Wide Sleeve : F5.5, F6.0

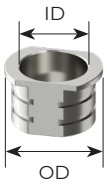
Composed of Vertical/Lateral Anchor.
- The accuracy of the guide becomes excellent with the anchor, as the guide can be fixed stably.

Sleevesless
- Composed of two library types (opened and closed) in accordance with the drill's diameter.

Applicable software : 3shape exocad

Sleeve

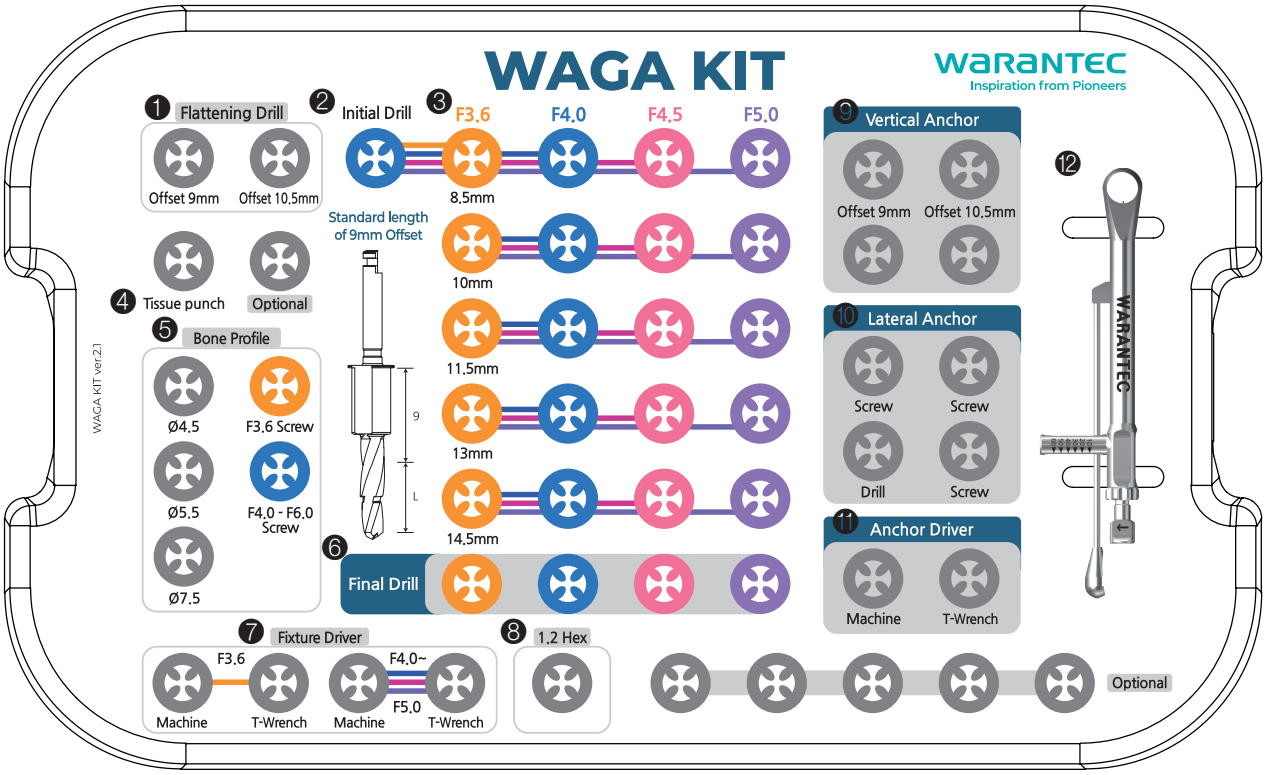
	Regular	Wide
Used Fixture	F3.6-F5.0	F5.5-F6.0
Inner Diameter	5.2	6.5
Outer Diameter	7.5	8.8
ART NO.	MSV-52	MSV-65



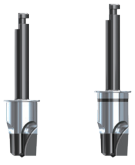
Warantec's guide system can be used with a sleeves or sleeveless options.
Based on your preference, you can choose either a sleeve or sleeveless design from our library.

Warantec Guide Kit for IU Implant(F3.6-F5.0)

Art No. : WAGA KIT



1 Flattening Drill



GBF090 GBF105

2 Initial Drill

GLD28

3 Step Drill

GSD30085 GSD30100 GSD30115 GSD30130 GSD30145
GSD35085 GSD35100 GSD35115 GSD35130 GSD35145
GSD40085 GSD40100 GSD40115 GSD40130 GSD40145
GSD45085 GSD45100 GSD45115 GSD45130 GSD45145

4 Tissue Punch

GTP

5 Bone Profile Drill & Screw

BP-45 BP-55 BP-75 IU-PGS-M IU-PGS-S

6 Final Drill

GPD-35 GPD-40 GPD-45 GPD-50

7 Fixture Driver

GFD-HM GFD-RM120 GFD-HS GFD-RS105

8 1.2 Hex Driver

HD-TW-L

11 Anchor Driver

GAD-H GAD-R

10 Lateral Anchor Screw & Drill

GLAS GLAD

9 Vertical Anchor for Standard(F4.0, F4.5, F5.0)

GVA090S
GVA105S

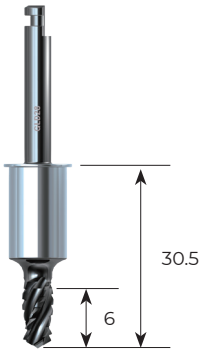
12 Torque Wrench

TW

Initial Drill

- Initial drill for marking the implantation point easily on the cortical bone without slipping when building an implantation hole.
- It can be used on offset by choosing the length between short and long.
- Recommended RPM : 800-1,000

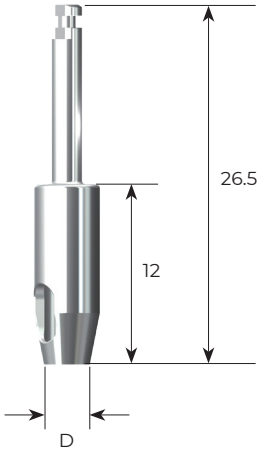
Art No.	Diameter
GLD28	2.8



Tissue Punch

- Used for gingival removal during flapless surgery.
- Recommended RPM : 800-1,000

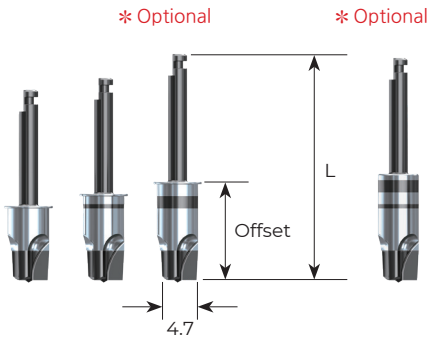
Art No.	Diameter
GTP	4.5



Flattening Drill

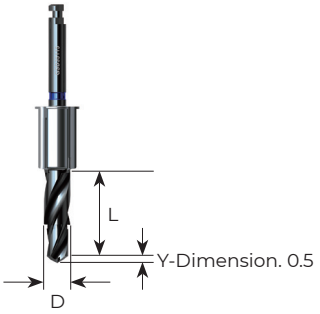
- Used to planarize the irregular bone area when the top of the alveolar bone is not flat, or it is narrow.
- Multiple cutting edge help to remove the bone stably without bouncing.
- Recommended RPM : 800-1,000

Art No.	Offset	Length	
GBF090	9	23.8	
GBF105	10.5	25.3	
GBF120	12	28.3	＊Optional
GBF	No offset	27.5	＊Optional



Step Drill

- The saline flow design is applied to the part where the drill is guided to prevent bone overheating.
- Various lengths of drills are available for the convenience of the user.
- Recommended RPM : 800-1,000



Fixture	F3.6	F4.0	F4.5	F5.0	F5.5	F6.0	
Diameter	2.9	3.6	4.1	4.7	5.3	5.8	Length
Art No.	GSD30085	GSD35085	GSD40085	GSD45085	GSD50085	GSD55085	8.5
	GSD30100	GSD35100	GSD40100	GSD45100	GSD50100	GSD55100	10
	GSD30115	GSD35115	GSD40115	GSD45115	GSD50115	GSD55115	11.5
	GSD30130	GSD35130	GSD40130	GSD45130	GSD50130	GSD55130	13
	GSD30145	GSD35145	GSD40145	GSD45145	GSD50145		14.5
Sleeve	MSV-52				MSV-65		
Kit	WAGA Kit				WAGA Kit Plus		

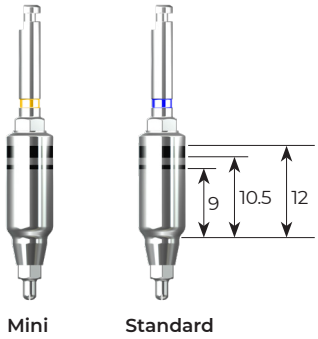
Final Drill

- Drill for expanding the cortical bone after using the bone collecting drill.
- Use it after making the final holes on hard bones.
- Use in consideration of the diameter of the fixture.
- Recommended RPM : 800-1,000

	F3.6	F4.0	F4.5	F5.0	F5.5	F6.0
Diameter	3.6	4.1	4.6	5.1	5.6	6.1
Art No.	GPD-35	GPD-40	GPD-45	GPD-50	GPD-55	GPD-60
Sleeve	MSV-52				MSV-65	
Kit	WAGA Kit				WAGA Kit Plus	

Fixture Driver Machine Type

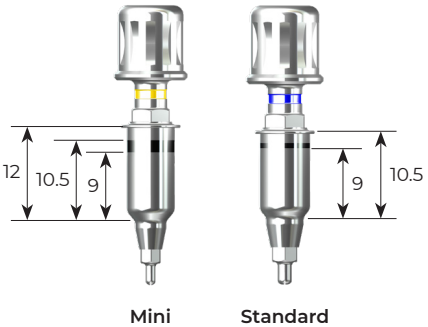
- Used when placing the fixture with a machine.
- Connections are divided into F3.3-F3.6(Mini)/F4.0-6.0(Standard).
- The outer hex indicator is applied to the driver to confirm the direction of the hex inside the fixture.



Art No.	Application
GFD-HM	Mini
GFD-HS	Standard

Fixture Driver Torque Wrench Type

- Use it in case of placing the fixture by using a torque wrench.
- Must check if it is completely assembled during the usage. If it is assembled incompletely, it may cause fracture under the heavy stress.
- Be careful because the excessive torque may cause the damage of internal hex.
- The outer hex indicator is applied to the driver confirm the direction of the hex inside the fixture.



Art No.	Offset	Application	
GFD-RM120	12	Mini	
GFD-RS105	10.5	Standard	
GFD-RS090	9	Standard	✻ Optional

Bone Profile Drill

- A drill to remove bone after the placement of the fixture to prevent interference between the bone and the prosthesis.
- Assemble the guide screw to the fixture, and it allows the peripheral bone to be easily removed without damaging the fixture.
- Choose the drill to use by considering the type of the fixture and the size of the abutment.
- Recommended RPM : 800-1,000

Art No.	Diameter(mm)
BP-45	4.5
BP-55	5.5
BP-75	7.5

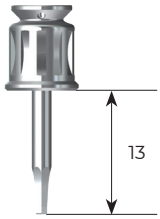
Guide Screw for Bone Profile Drill

- A guide screw that is assembled with the fixture and stops the bone profile drill vertically.
- Choose the screw to use by considering the type of the fixture.
- Assemble it by using the 1.2 hex driver with your hand.

Art No.	Application
IU-PGS-M	Mini
IU-PGS-S	Standard

1.2 Hex Driver Torque Wrench type

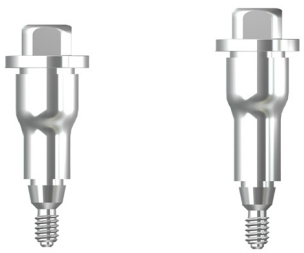
- Used for cover screw, abutment screw, and healing abutment.
- The hex tip is designed to tolerate the maximum torque of 35 - 45 Ncm.
- Exceeding the torque range may damage the tip.



Art No.	Hex Size
HD-TW-L	1.2

Vertical Anchor

- A tool that fixes the guide by assembling vertically to the fixture.
- Usually used for edentulous jaw cases, and prevents vertical movement.
- Assemble it by using the vertical anchor driver with hand.



Art No.	Offset(mm)	Application	
GVA120M	12	F3.6	✻ Optional
GVA090S	9	F4.0-F5.0	
GVA105S	10.5	F4.0-F5.0	
GVA090W	9	F5.5-F6.0	✻ Optional
GVA105W	10.5	F5.5-F6.0	✻ Optional
GVA120W	12	F5.5-F6.0	✻ Optional

Lateral Anchor Drill

- A drill to create a hole on the lateral to place the Anchor Screw.
- Recommended RPM : 800-1,000

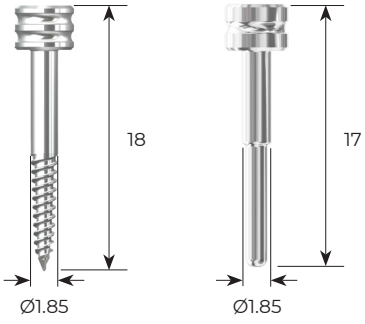
Art No.
GLAD

Lateral Anchor Screw & Pin

- The anchor screw that fixes the guide on the lateral.
- Assemble it by using the Lateral Anchor driver with your hand.

Art No.	Type	
GLAS	Screw	
GLAP	Pin	✻ Optional

✻ Optional



Driver for Anchor

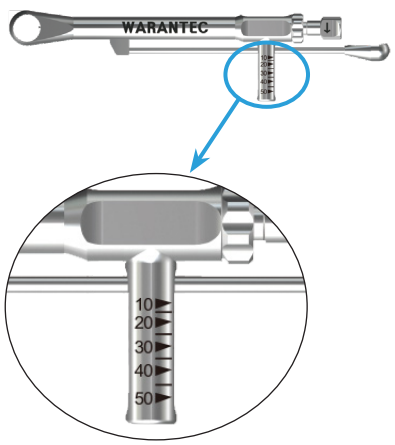
- A tool for assembling the Vertical Anchor & the Lateral Anchor Screw and Pin into the hole formed on the lateral.
- Assemble it by hand or using a torque wrench.

Art No.	Type
GAD-H	Machine
GAD-R	Torque Wrench

GAD-H GAD-R

Torque Wrench

- Assemble it with the adapter or driver to check the torque during the placement of the fixture or tightening the screw.
- Shows torque by pulling the bar to the indicated torque value line that user wants to apply.
- Rotate the pivot hand of the torque wrench to change the torque direction.



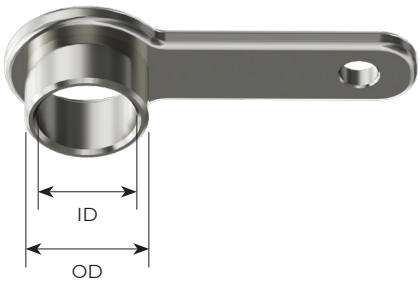
Art No.
TW

Guide Bush

*WAGA Kit Plus

- The axis guide tool for the case of using the small diameter drill on the wide sleeve.
- It is included in the Warantec's Guide Kit Plus.

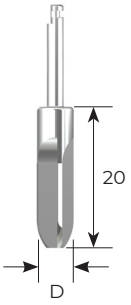
Art No.	Inner Diameter	Outer Diameter
MGB-52	5.2	6.5



Guide Reamer Drill

* Optional

- The reamer for polishing the hole after printing out the WAGA guide template with sleevless.
- Recommended RPM for machine : 50-80 RPM
- Can be used with a Shank Adapter with hand.

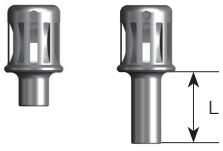


Art No.	Diameter(mm)
GHRS	5.2
GHRW	6.5

Shank Adapter

* Optional

- Required when using Reamer Drill.
- A connector that allows a driver for a handpiece to be connected to a torque wrench.



Short Long

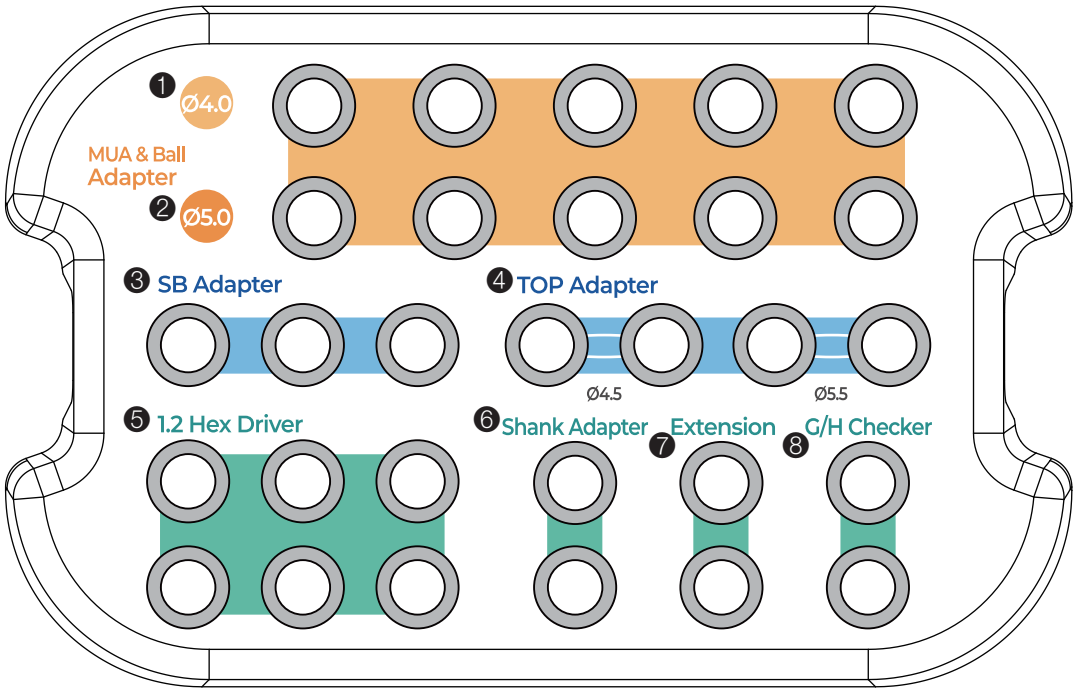
Art.No.	Length(mm)	Type
RA-HS-S	4.5	Short
RA-HS-L	9.2	Long

WPK

Warantec Prosthetic Kit

Warantec Prosthetic Kit

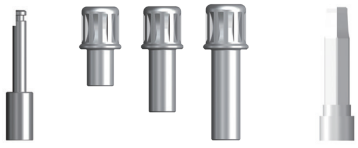
Art No. : WPK KIT



1 MUA Adapter : Ø4.0

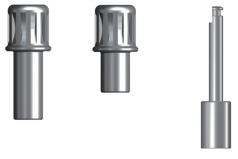
HA-HHA RA-HHA- S / L / LL IC0MUPC40

2 MUA Adapter : Ø5.0



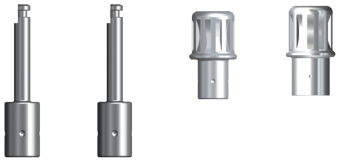
HA-HH RA-HH- S / L / LL IC0MUPC50

3 SB Adapter for only IT System



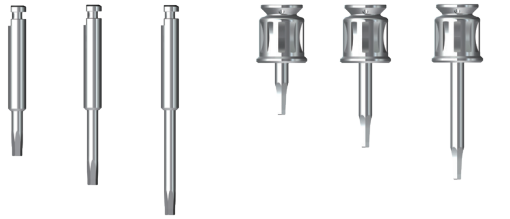
RA-TH-L RA-TH-S HA-TH

4 TOP Adapter for only IT System



HA-TR HA-TW RA-TR-S RA-TW-S

5 1.2 Hex Driver



HD-LT-S HD-LT-L HD-LT-LL HD-TW-S HD-TW-L HD-TW-LL

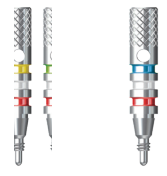
6 Shank Adapter

RA-HS-S RA-HS-L

7 Extension Smart Driver Extension

WDE SDE-L

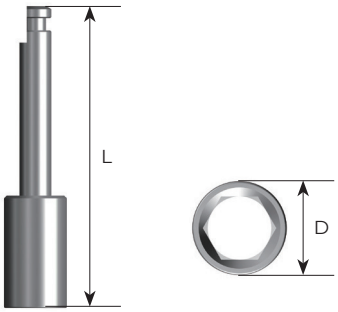
8 G/H Checker & Path Finder



IC0GHCA IC0GHC

Hex Adapter Machine Type

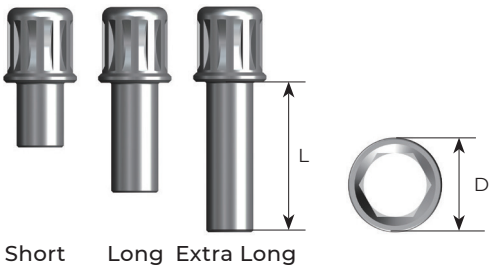
- Adapter for machine.
- Used to assemble the multi-unit abutment to the fixture.



Art No.	Diameter(mm)	Length(mm)	Application
HA-HHA	4.0	14	MUA 4.0
HA-HH	5.0	18	SUA 5.0 & MUA .0

Hex Adapter Torque Wrench Type

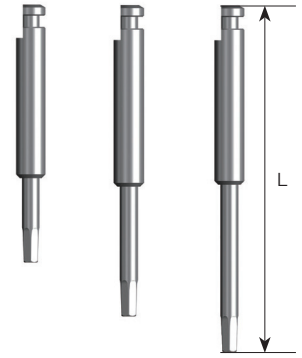
- Can be used for both torque wrench & hand adapter.
- Used to assemble the multi-unit abutment to the fixture.
- Various lengths of adapters are available for the convenience of the user.



Art No.	Diameter(mm)	Length(mm)	Application
RA-HHA-S	4.0	6.6	SUA 4.0
RA-HHA-L	4.0	11.1	
RA-HHA-LL	4.0	16	
RA-HH-S	5.0	6.6	SUA 5.0 & MUA 5.0
RA-HH-L	5.0	11.1	
RA-HH-LL	5.0	16	

1.2 Hex Driver Machine Type

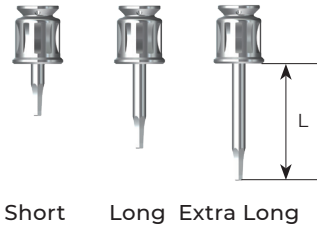
- Used for cover screw, abutment screw, and healing abutment.
- The hex tip is designed to tolerate the maximum torque of 35 - 45 Ncm.
- Exceeding the torque range may damage the tip.
- Various lengths of drivers are available for the convenience of the user.



Art.No	Length(mm)
HD-LT-S	20
HD-LT-L	24
HD-LT-LL	28

1.2 Hex Driver Torque Wrench type

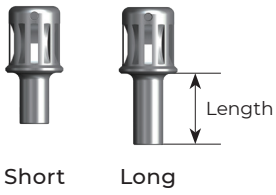
- Used for cover screw, abutment screw, and healing abutment.
- The hex tip is designed to tolerate the maximum torque of 35 - 45 Ncm.
- Exceeding the torque range may damage the tip.
- Various lengths of drivers are available for the convenience of the user.



Art No.	Length(mm)	
HD-TW-S	8	
HD-TW-L	13	
HD-TW-LL	18	✻ Optional

Shank Adapter

- Required when using Reamer Drill.
- A connector that allows a driver for a handpiece to be connected to a torque wrench.



Art No.	Length(mm)
RA-HS-S	4.5
RA-HS-L	9.2

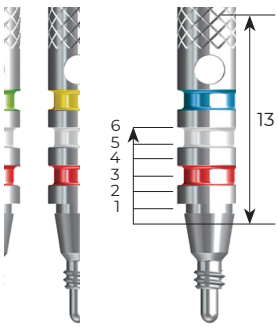
Drill Extension

- An instrument to extend the length of the drill and the driver of the machine.
- Incomplete assembly may cause bending or fracture of the extension.
- The length can be extended by 15.4 mm when the drill extension is assembled.

Art No.	Extendable Length(mm)
WDE	15.4

Gingiva Height Checker & Path Finder

- Check the height of the gingiva with the indicated color line.
- In the multiple case, assemble with the fixture that is placed firstly and confirm the precise implantation path.

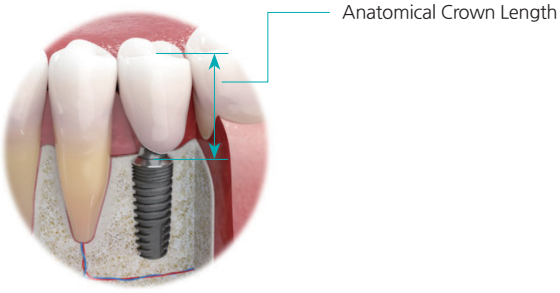


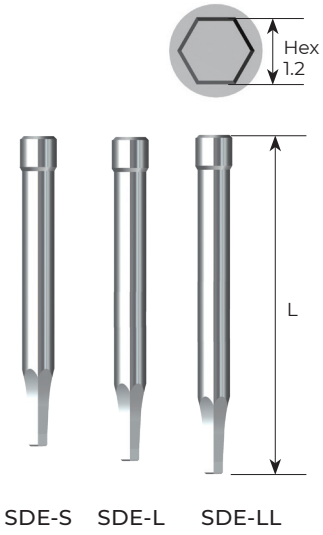
Mini Standard

Art No.	Application
IC0GHCA	Mini
IC0GHC	Standard

SDE(Smart Driver Extension)

- 1.2 hex driver extension.
- Used when access is difficult due to the long Anatomical Crown Length.





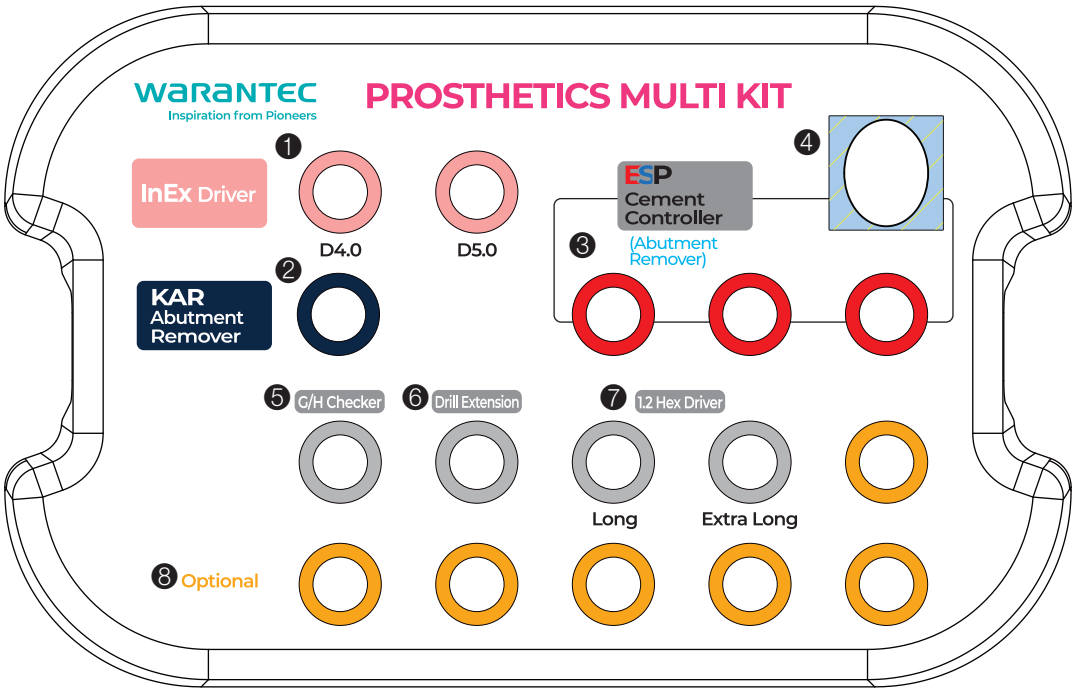
Art No.	Anatomical Crown Length(mm)
SDE-S	20
SDE-L	23
SDE-LL	26

PM Kit

Prosthetics Multi Kit

Prosthetics Multi Kit

Art No. : PM KIT



❶ Adapter for Ø4.0 Multi-unit Abutment(Torque Wrench)

RA-HHA-L

Driver for Ø5.0 Multi-unit Abutment(Torque Wrench)

RA-HH-L

❷ KAR Lead Driver

KAR-LD20425

KAR Hook Housing

KAR-HH20425

❸ ESP Shaft

ESP-S1825

ESP Holder

ESP-H

O-ring

❹ Elastic Gasket

ESP-EG18

❺ G/H Checker & Path Finder

IC0GHC

❻ Smart Extension

SDE-L

❼ 1.2 Hex

HD-TW-L HD-TW-LL

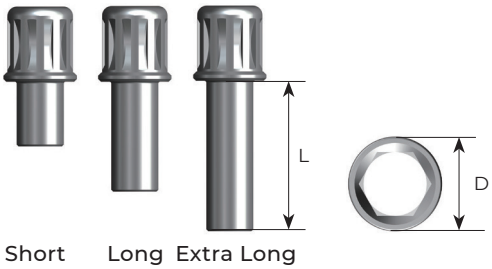
(Bottom of the Case)

KAR Housing Holder

KAR-HH

Hex Adapter Torque Wrench Type

- Can be used for use both torque wrench & hand adapter.
- Used to assemble the multi-unit abutment to the fixture.
- Various lengths of adapters are available for the convenience of the user.

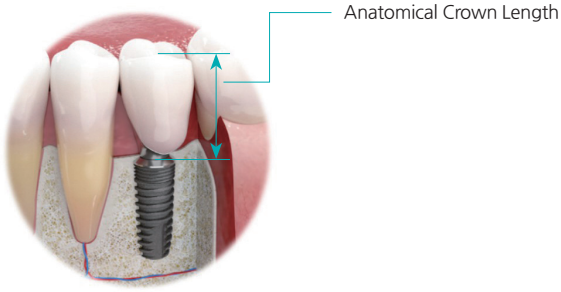


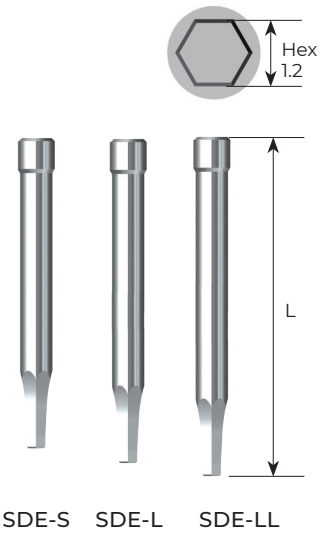
Art No.	Diameter(mm)	Length(mm)	Application	
RA-HHA-S	4.0	6.6	MUA 4.0	＊Optional
RA-HHA-L	4.0	11.1		
RA-HHA-LL	4.0	16		＊Optional

Art No.	Diameter(mm)	Length(mm)	Application	
RA-HH-S	5.0	6.6	SUA 5.0 & MUA 5.0	＊Optional
RA-HH-L	5.0	11.1		
RA-HH-LL	5.0	16		＊Optional

SDE(Smart Driver Extension)

- 1.2 hex extension driver.
- Used when access is difficult due to the long Anatomical Crown Length.





Art No.	Anatomical Crown Length(mm)	
SDE-S	20	＊Optional
SDE-L	23	
SDE-LL	26	＊Optional

1.2 Hex Driver Torque Wrench type

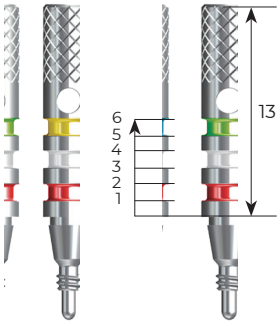
- 1.2 hex driver.
- Assemble only by hand force using the ESP shaft.
- Short, long, and extra long drivers are provided for the convenience of the operator.

Short Long Extra Long

Art.No	Length(mm)	
HD-TW-S	8	* Optional
HD-TW-L	13	
HD-TW-LL	18	* Optional

Gingiva Height Checker & Path Finder

- Check the height of the gingiva with the indicated color line.
- In the multiple case, assemble with the fixture that is placed firstly and confirm the precise implantation path.

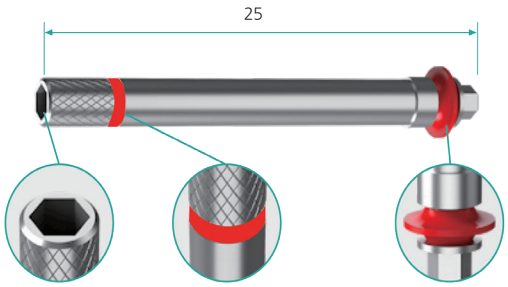


Mini Standard

Art No.	Application
IC0GHCA	Mini
IC0GHC	Standard

ESP Shaft

- Easy handling as the abutment and the crown can be held simultaneously.
- Head part can be assembled with a 1.2 hex driver.
- Added the 1.2 hex design on the bottom so the screw can be assembled using a shaft.
- Applied the safety design so that the head part gets fractured if the torque value exceeds the appropriate (25N) value.
- Recommended tightening torque : 15Ncm



Art No.	Length(mm)
ESP-S1825	25

ESP Holder

- Fix the abutment and crown by assembling them with the shaft.
- Use it for Try-in & out.

ESP-H

Elastic Gasket

- Hold the abutment by assembling with the shaft.
- Applied the design that can easily remove the remaining cement inside the crown.
- It is a disposable product. Reusing the product may cause a technical problem.
- Easy replacement with gasket holder.

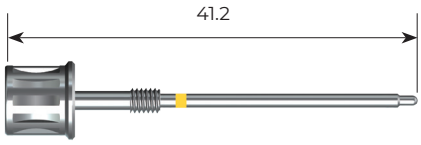
ESP-EG18

Gasket Holder (ORH)

Please refer to the ESP category for the instructions and optional products.

Lead Driver

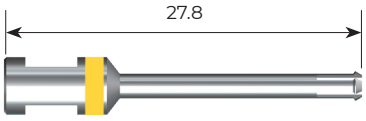
- It can be used to remove the abutment when the assembled part is fractured with hook housing.
- A tool that is inserted by penetrating the Hook Housing.
- Blocks contraction to maintain the grip force of Hook Housing that holds the abutment, and at the same time, disassembles the abutment from the fixture by pushing the bottom of the fixture with the turning force that is generated from engaging it to the Hook Housing.
- Use a torque wrench.
- Recommended : Less than 50 Ncm



Art No.	Length(mm)
KAR-LD20425	41.2

Hook Housing

- A tool that fixes vertically on the tip of hex or non-hex of the abutment that is engaged with the fixture by penetrating the screw hole of the abutment.
- It can be used to remove the abutment when the assembled part is fractured with lead driver.



Art No.	Length(mm)
KAR-HH20425	27.8

Housing Holder

- A tool that holds the Hook Housing so that it does not rotate when engaging the lead driver into hook housing.
- The round tip on the other side can be used when the operator uses a destructive method to remove the abutment.

Art No.
KAR-HH

Please refer to the KAR category for the instructions and optional products.

WISE Kit

Warantec Implant's Sinus Elevation Kit

Sinus Combination Kit for Crestal & Lateral Approach

Art No. : WISE KIT

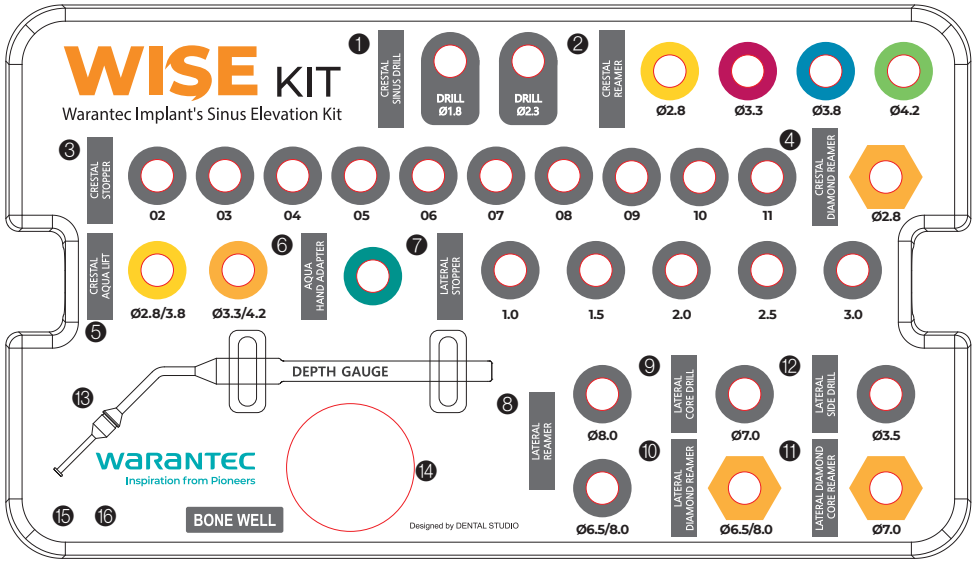
❶ Sinus Point Drill ❷ Sinus Reamer ❸ Crestal Stopper ❹ Diamond Reamer ❺ Aqua Lift Tap

PD-18 PD-23 SRM-28 SRM-33 SRM-38 SRM-42 SCA-ST02 SCA-ST03 SCA-ST04 SCA-ST05 SCA-ST06 SCA-ST07 SCA-ST08 SCA-ST09 SCA-ST10 SCA-ST11 DAR-28 ALT-28 ALT-33

❻ Aqua Hand Adapter

AQUA-HA

WISE KIT CASE



❼ Lateral Stopper ❽ Sinus Reamer ❾ Core Drill

SCL-ST10 SCL-ST15 SCL-ST20 SCL-ST25 SCL-ST30

SRM-80 SRM-80T CD-70

❿ Sinus Diamond Reamer ⓫ Diamond Core Reamer ⓬ Side Drill ⓭ Depth Gauge

SDR-80T DCR-70 SID-30 DG-01

❺ Aqua Lift Tap

ALT-28 ALT-33

❻ Aqua Hand Adapter

AQUA-HA

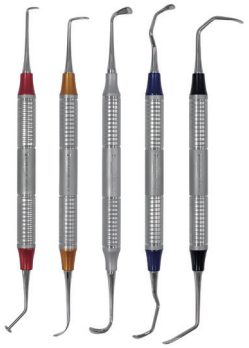
⓯ Aqua Silicone Tube

AT-02

⓮ Bonewell

5702

⓰ Flexible Sinus Curette



7091 7092 7093 7094 7095

Crestal Approach Components

Sinus Point Drill

Ø1.8 Ø2.3

Crestal Reamer

Ø2.8 Ø3.3 Ø3.8 Ø4.2

Crestal Stopper

2mm 3mm 4mm 5mm 6mm

7mm 8mm 9mm 10mm 11mm

Crestal Diamond Reamer

Ø2.8

Aqua Lift Tap

Ø2.8/3.8 Ø3.3/4.2

Aqua Hand Adapter

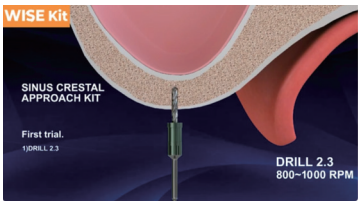
Depth Gauge

Aqua Silicone Tube

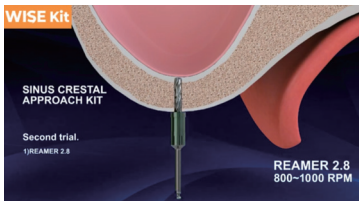
Bonewell

How to Use

①



②



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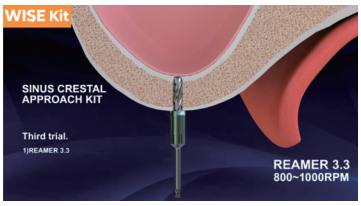
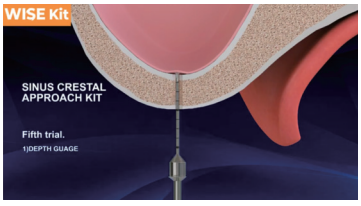


④

⑤



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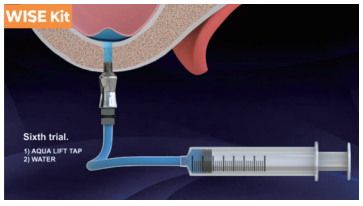

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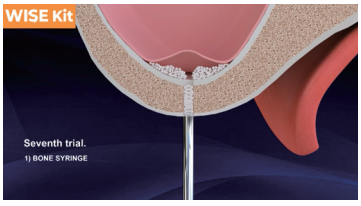
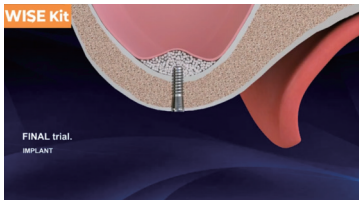


⑧



- Select the safe and appropriate crestal stopper according to the bone thickness on the patient's x-ray.
- The Reamer Drill must be used with the selected drill stopper for accurate and safe drilling.
- Use a Sinus Reamer with an appropriate diameter (2.8, 3.3, 3.8, 4.2) according to the size of the implant and bone density. (800-1,000RPM)
- Use diamond bur to confirm the final detachment of the sinus membrane and to shape any irregularity of the sinus floor.
- Lift the sinus membrane safely with the water pressure using the Aqua Lift Tap.

Lateral Approach Components

Lateral Reamer

Ø8.0 Ø6.5/8.0

Lateral Core Drill

Ø7.0

Diamond Reamer & Core Reamer

Ø6.5/8.0 Ø7.0

Lateral Side Drill

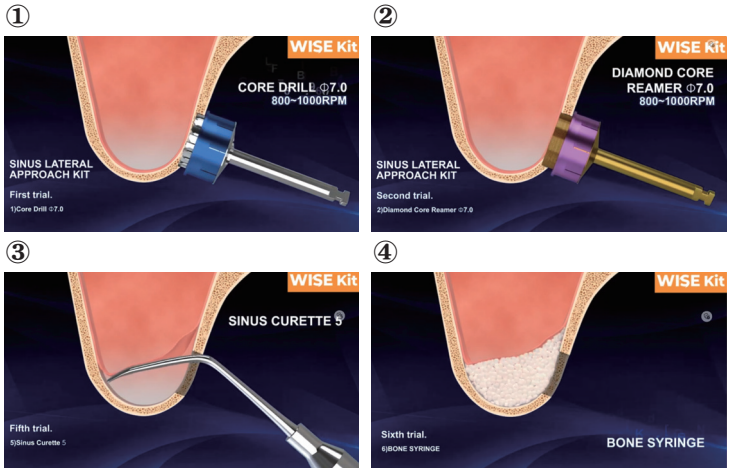
Ø3.5

Flexible Sinus Curette

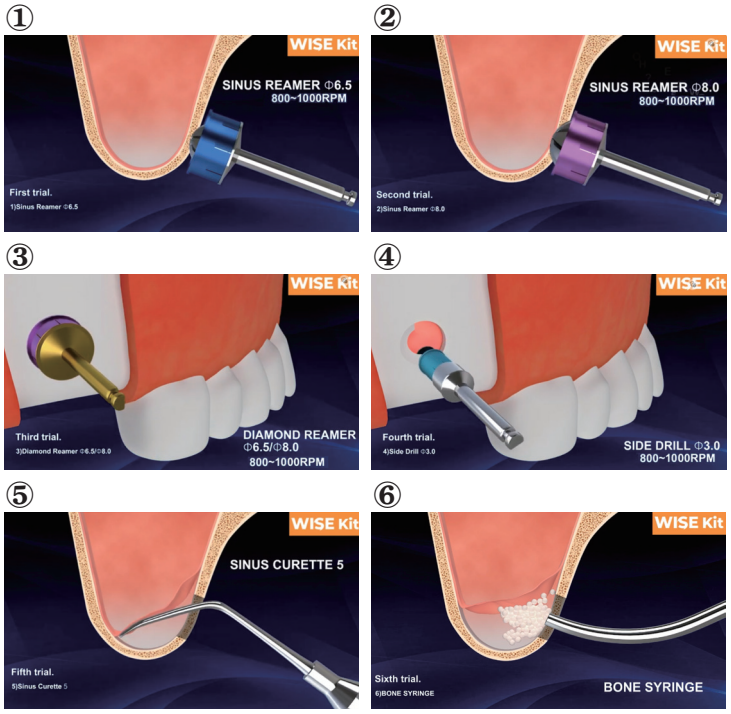
Lateral Stopper

1.0 1.5 2.0 2.5 3.0

How to Use



- Select the safe and appropriate lateral stopper according to the bone thickness on the patient's x-ray
- The Core Drill or Diamond Core Reamer must be used with the selected drill stopper for accurate and safe drilling.
- Use the Core Drill (Ø7.0) or Diamond Core Reamer (Ø7.0) depending on the thickness and density of the bone for safe drilling. (800-1,000RPM)
- The sinus membrane can be safely detached by using the Easy Sinus Flexible Curette.



- Select the safe and appropriate lateral stopper according to the bone thickness on the patient's x-ray.
- The Sinus Reamer or Diamond Reamer must be used with the selected drill stopper for accurate and safe drilling.
- For safe drilling (800-1,000RPM), choose Sinus Reamer(Ø8.0, Ø6.5/8.0) or Diamond Reamer(Ø6.5/8.0) according to the thickness and density of the bone.
- The sinus membrane can be safely detached by using the Easy Sinus Flexible Curette.

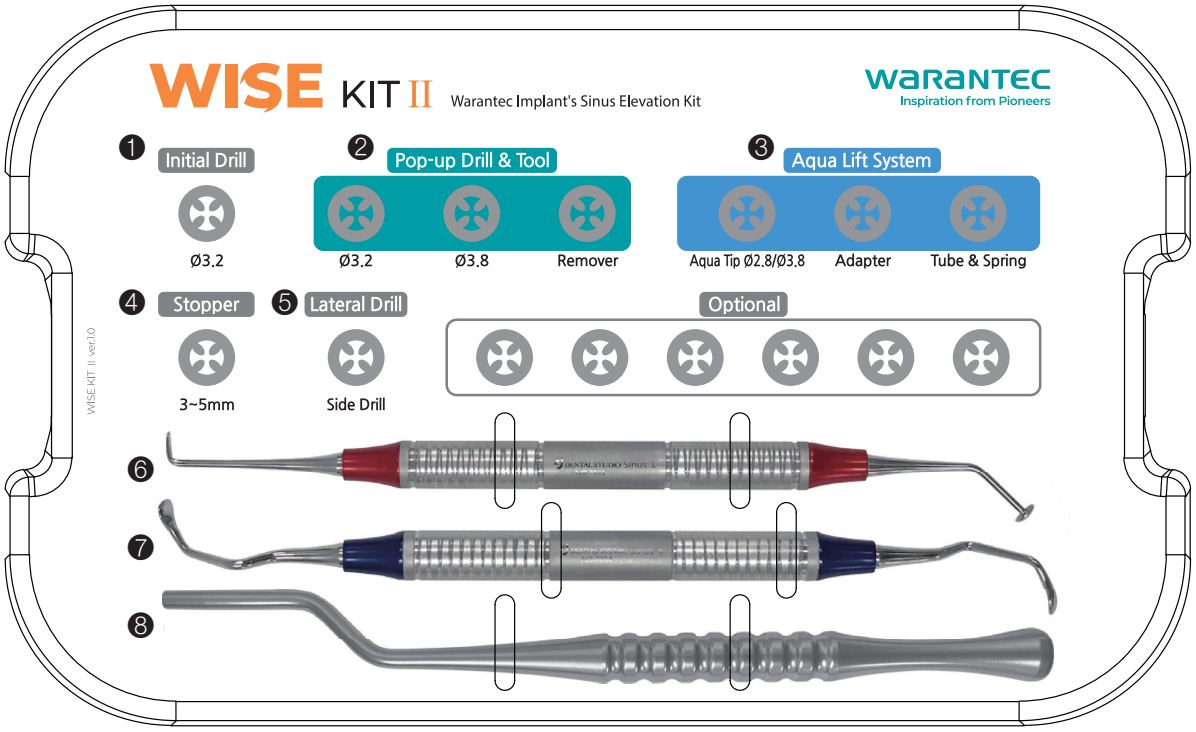
WISE Kit Ⅱ

Warantec Implant's Sinus Elevation Kit Ⅱ

Warantec Implant's Sinus Elevation Kit Ⅱ

Art No. : WISE Kit Ⅱ

WISE KIT II is a sinus master kit that can proceed Crestal approach & Lateral approach with the pop-up drill and Aqua lift system configurations that make sinus elevation the easiest, simplest, and safest.



❶ Pop-up Initial Drill

OSD-32T

❷ Pop-up Drill & Remover

AD-32 AD-38 ADR

❸ Aqua Tip System

ALT-28 AQUA-HA AST-30 S-Spring

❹ Pop-up Drill Stopper

AD-ST

❺ Lateral Side Drill

SID-30

❻ WISE Sinus Curette

7091

❼ WISE Sinus Curette

7094

❽ Bone pusher

BP-35C

<Optional>

7092

7093

DG-01

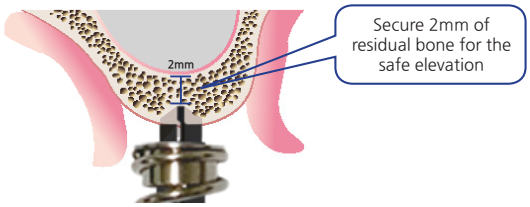
AT-02

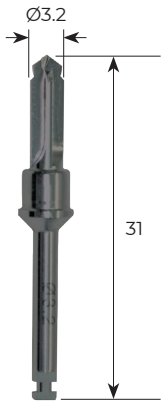
5702

① Pop-up Initial Drill

- Drill forming a hole on the implantation point.
- Forming a Guide hole for the pop-up bar of pop-up drill.
- Secure 2mm of residual bone for the safe elevation.
- Recommended RPM : 500 - 800

Art No.
OSD-32T

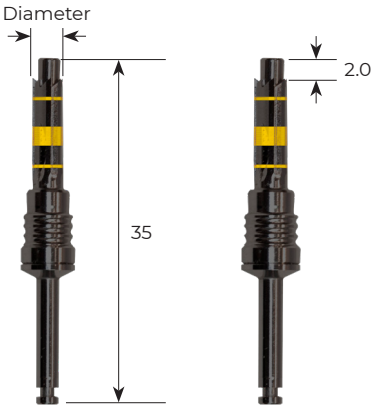


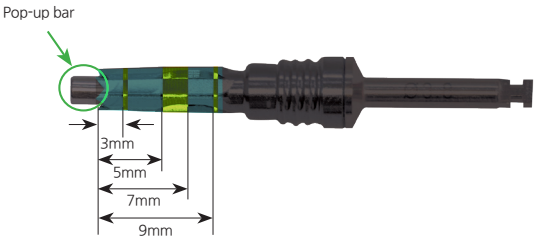


② Pop-up Drill

- Safely elevate the membrane with the pop-up function.
- Drill it after inserting the pop-up bar into the hole that formed by initial drill.
- Engage the stopper for the safe drilling.
- Recommended RPM: 200 - 500

Art No.	Diameter (Ø)
AD-32	Ø3.2
AD-38	Ø3.8





③ Pop-up Drill Stopper

- Drill stopper that can safely control the straight moving of the drill with the spring's elasticity.
- The distance from the blade at the end to the stopper is 3mm when it is engaged with the pop-up drill.
- While drilling, in case of the spring is completely compressed, it can stop 5mm.

Art No.
AD-ST

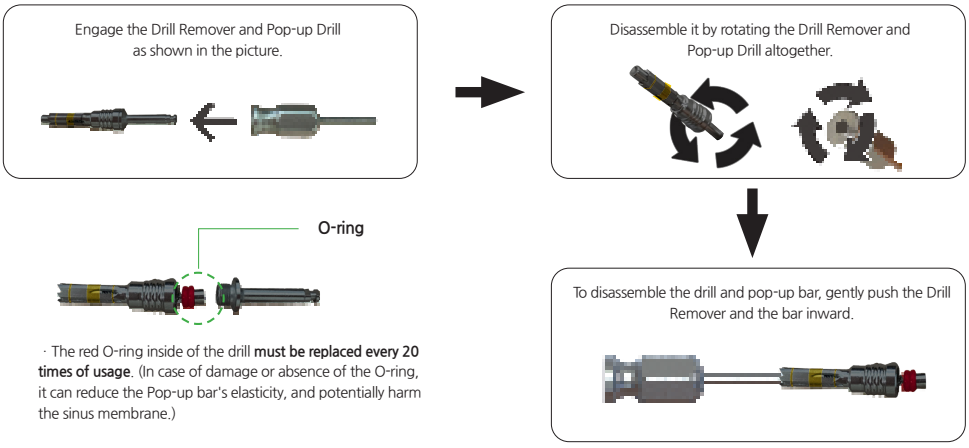
Engaged

Compressed

④ Pop-up Drill Remover

- Tool for disassemble the drill and the shank parts.
- After using the drill, make sure to disassemble and clean the drill, then reassemble and sterilize it.

Art No.
ADR



· The red O-ring inside of the drill **must be replaced every 20 times of usage**. (In case of damage or absence of the O-ring, it can reduce the Pop-up bar's elasticity, and potentially harm the sinus membrane.)

⑤ Bone Pusher

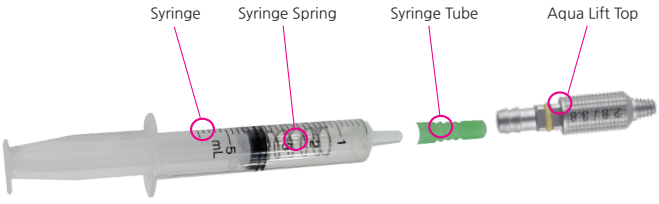
- This tool is utilized for grafting collected bone or bone material after elevating the sinus membrane.
- It functions as an osteotome when elevating the sinus membrane using a mallet.

Art No.
BP-35C

⑥ Aqua Lift System

- Secure the aqua lift tab in place by utilizing the aqua hand adapter within the hole formed on the maxillary sinus bone.
- Connect the aqua lift tab to the syringe tube and inject saline into the hole to elevate the maxillary sinus.
- Insert the syringe spring into the syringe to facilitate convenient water pressure adjustment.

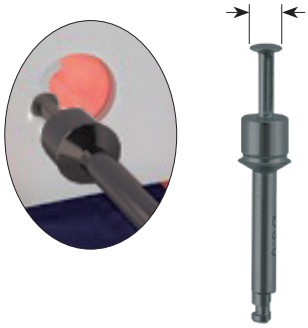
Art.No.	Product
ALT-28	Aqua Lift Tap
AQUA-HA	Aqua Hand Adapter
AST-30	Syringe Tube
S-Spring	Syringe Spring



Lateral Side Drill

- The Drill for extending the hole created by the Pop-up Drill.
- Recommended RPM: 800 - 1,000

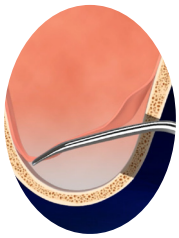
Art No.
SID-30

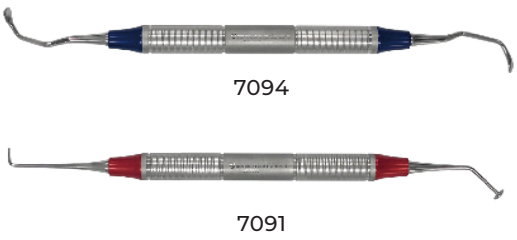


Sinus Curette

- Utilized for safely elevating the maxillary sinus membrane or performing bone graft.

Art No.
7091
7094





Depth Guage

- Use the Depth Gauge to inspect for any perforations and determine the drilling depth of the maxillary cortical bone.
- Additionally, it is used for elevating bone grafts following maxillary sinus elevation.

Art No.	
DG-01	＊Optional

Bonewell

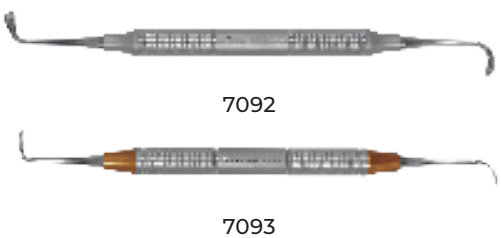
Art No.	
AT-02	＊Optional

Aqua silicone tube Ø3.0

Art No.	
5702	＊Optional

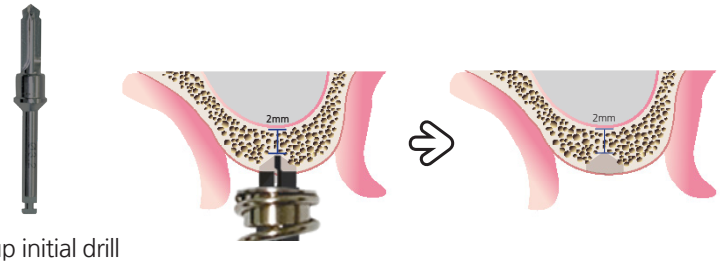
Sinus Curette

Art No.	
7092	＊Optional
7093	＊Optional



SURGICAL PROCEDURE FOR CRESTAL APPROACH

1. **Marking** (Use Pop-up Initial Drill)
   - Utilize the pop-up initial drill to mark the precise point for implant placement.
   - For the secure elevation of the pop-up drill, drill until at least 2mm of residual bone remains.



Pop-up initial drill

2. Bone **Lifting** (Use Pop-up Drill)
   - Insert the pop-up bar of the pop-up drill into the designated hole and proceed towards the sinus while drilling.
   - As the drill approaches the sinus, the pop-up bar's vertical pressure lifts the residual bone and elevates the membrane.
   - To avoid potential damage to the sinus membrane while drilling, we recommend to use the spring stopper. (Recommended RPM: 200 - 500)

   ※Tip : If the residual bone in contact with the sinus is hard, making the final bone lifting challenging, you can utilize the Osteotome technique with the assistance of the Bone Pusher to lift the residual bone.

Pop-up drill

3. Sinus Membrane **Lifting** (Use Aqua Lift System)
   - Following the bone lifting, utilize the adapter to connect the aqua tip with the syringe.
   - Elevate the sinus membrane using water pressure while injecting saline through the syringe.
   - For a smoother elevation process and to avoid sudden water pressure, insert a syringe spring into the syringe.

Aqua lift system

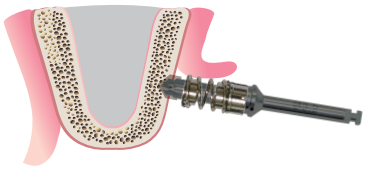
4. Implant Placement(with GBR or without GBR)
   - Fill the elevated space with bone material for the subsequent implantation, or proceed the treatment without the bone graft.

with GBR without GBR

SURGICAL PROCEDURE FOR LATERAL APPROACH

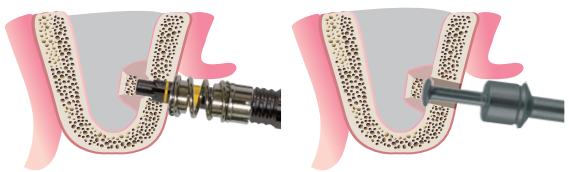
1. **Marking** (Use Pop-up Initial Drill)
   - Utilize the pop-up initial drill to mark the precise point for implant placement.
   - For the secure elevation of the pop-up drill, drill until at least 2mm of residual bone remains.

Pop-up initial drill



2. Bone **Lifting & Cutting** (Use Pop-up Drill and Side Drill)
   - Insert the pop-up bar of the pop-up drill into the designated hole and proceed towards the sinus while drilling.
   - As the drill approaches the sinus, the pop-up bar's vertical pressure lifts the residual bone and elevates the membrane.
   - To avoid potential damage to the sinus membrane while drilling, we recommend to use the spring stopper. (Recommended RPM: 200 - 500)
   - Extend the hole for elevation using the side drill.

Pop-up drill



3. Sinus Membrane **Lifting** (Use Sinus Curette)
   - After elevating the bone, carefully lift the membrane using a sinus curette.

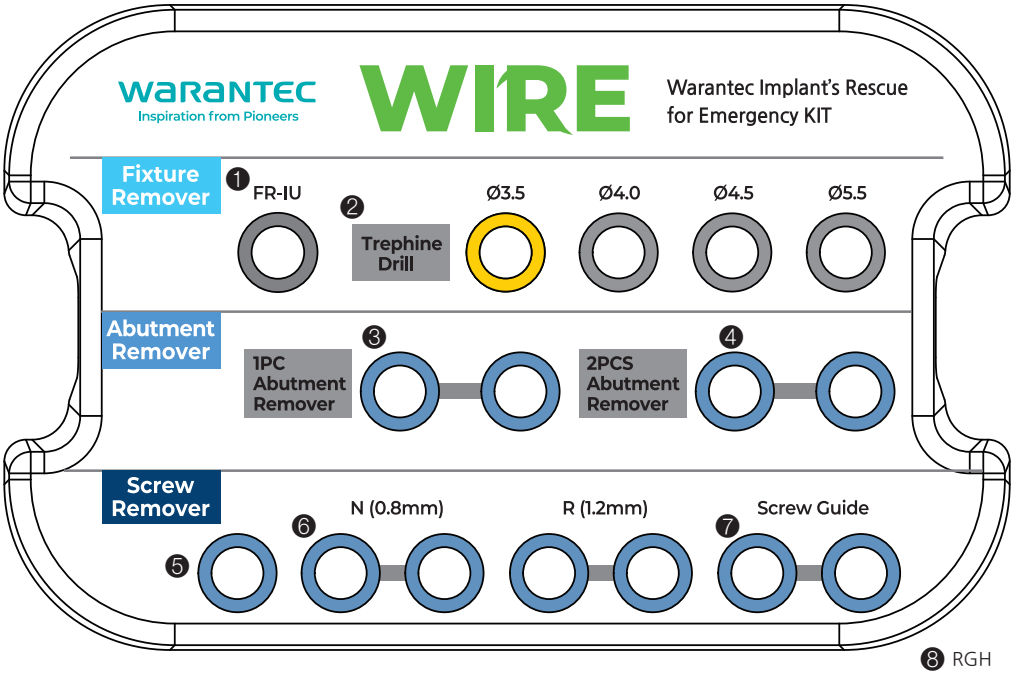
4. GBR & implantation
   - Fill the elevated space with the bone material.
   - After completing the bone graft, proceed with the implantation.

WIRE Kit

Warantec Implant's Rescue for Emergency Kit

Warantec Implant's Rescue for Emergency

Art No. : WIRE KIT



1 Fixture Removal Tool

FR-IU

2 Trephine Drill

TPD-35 TPD-40 TPD-45 TPD-55

3 Abutment Removal Drill &Tool

SD-AR-16 RD-AR-16

4 Dual Abutment Removal Tool

RD-AR-S RD-AR-L

5 Screw Removal Tool

HD-SR-CM

6 Srew Removal Drill &Tool

SD-SR-08 HD-SR-08 SD-SR-12 HD-SR-12

7 IU Screw Removal Drill Guide

UG-SR-HA UG-SR-H

8 Removal Guide Holder

RGH

9 Remover Torque Wrench

RTW

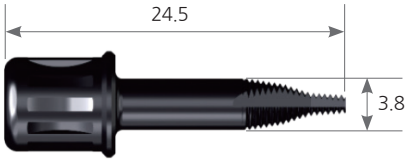
The **WIRE KIT** is a comprehensive removal kit that enables removing implants and debris remaining on implants in case of failure of prosthetics such as a screw or abutment fracture.

WIRE

Fixture Remover

- Implant fixture removal tool.
- When it is necessary to remove the implant due to peri-implantitis or other causes.
- Only the implant can be removed without damaging the surrounding bones.
- Easy and convenient removal of the internal fixture by reverse rotation.

❖ It is a disposable product. Reusing the product may cause a problem in its function.



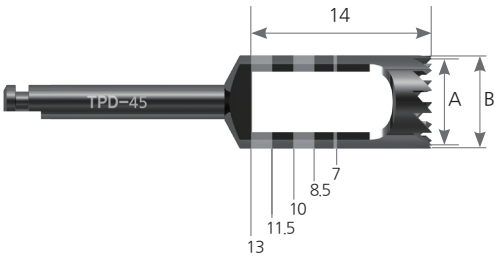
FR-IU

Tighten the fixture remover to the fixture to be removed by rotating it in the reverse direction.

Maintain the fixture remover vertically, and use the remover torque wrench (RTW) to remove the fixture by rotating the fixture remover in the reverse direction.

Trephine Drill

- Drill for fixture removal.
- Check whether the size fits the fixture to be removed before use.
- Form a path on the bone surface by the reverse rotation, and then drill it with normal rotation.
- Recommended RPM : 800-1,200 RPM

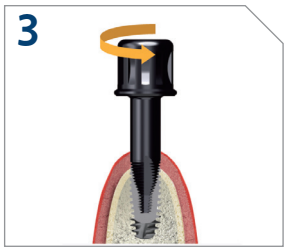


Art No.	A	B
TPD-35	3.5	4.1
TPD-40	4.0	4.6
TPD-45	4.5	5.3
TPD-55	5.5	6.3

Assemble the trephine drill that corresponds to the fixture's diameter to be removed to the handpiece. Form a path on the bone surface by the reverse rotation.

Perform the normal rotation drilling up to the implanted fixture depth to separate the fixture to be removed from the surrounding bone.

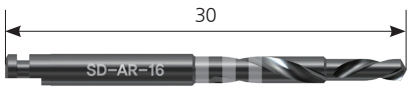
* Increase the amount of irrigation sufficiently to reduce bone heating.



In case of broken fixture, tighten the fixture remover by reverse rotation and remove the fixture.

Abutment Removal Drill

- Removal drill for neck fractured solid abutment.
- Drill for forming a hole on the cross section of the fractured solid abutment with reverse rotation.
- Recommended RPM : 1,500 RPM
- Package Component : SD-AR-16



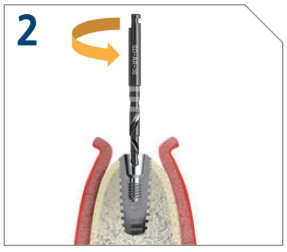
SD-AR-16

Solid Abutment Removal Tool

- Removal tool for the neck fractured solid abutment.
- Remove by tightening the removal tool by reverse rotation on the hole formed on the cross section of the fractured solid abutment.
- Package Component : RD-AR-16

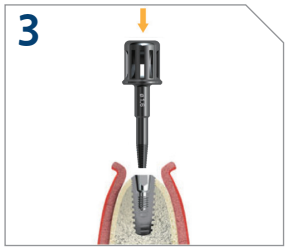
RD-AR-16

Remove the soft tissue to the extent that the Abutment Removal Drill can be used.

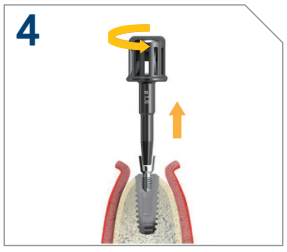


Proceed with the reverse rotation drilling on the cross section of the fractured solid abutment with the SD-AR-16 drill. Proceed with the drilling at the speed of 1,500 RPM or higher. Sufficient irrigation will be required as cutting heat will be generated by the drilling speed. (*minimum cutting depth of 2mm)

☆TIP
If the remaining piece of the solid abutment comes out while proceeding with the reverse rotation drilling with the SD-AR-16 drill, remove the remaining abutment with a tweezer.



Insert the RD-AR-16 into the formed hole.

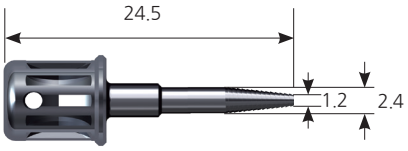


Reverse rotate the RD-AR-16 to remove the fractured abutment.

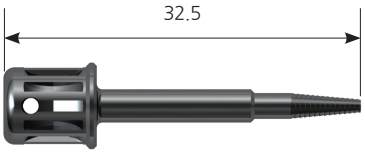
Dual Abutment Removal Tool

- Removal tool for the neck fractured dual abutment.
- When the dual abutment is fractured on the inside of the fixture.
- When the hex of the abutment screw is damaged.
- Remove it by reverse rotation from inside the fractured dual abutment or on the screw hex.

❖ It is a disposable product. Reusing the product may cause a problem in its function.

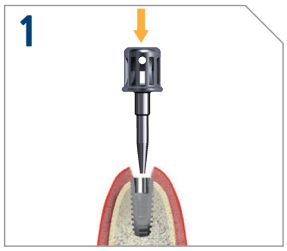


RD-AR-S

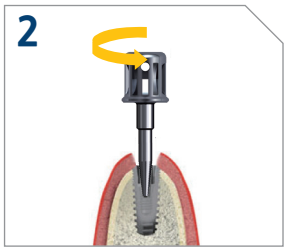


RD-AR-L

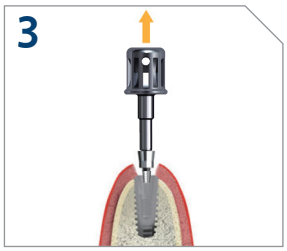
Neck Fractured Dual abutment Removal Procedure



Insert into the hole of the fractured abutment with the Dual Abutment Removal Tool.



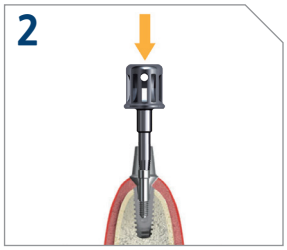
Reverse-rotate the Dual Abutment Removal Tool until it is fitted with the fractured abutment.



If it is fitted adequately, use forceps or any other tools to shake it and remove it.

Removal Procedure for the Damaged Abutment Screw Hex

When the 1.2 hex driver cannot be assembled because the hex part of the abutment screw is damaged.

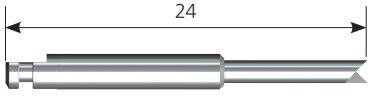


Insert the Dual Abutment Removal Tool into the damaged hex.

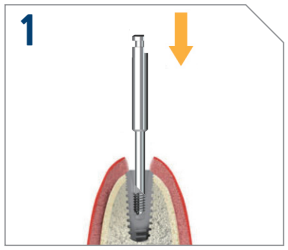
Reverse-rotate the Dual Abutment Removal Tool to remove the damaged abutment screw.

Screw Removal Tool

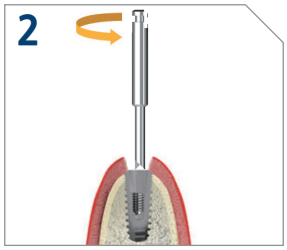
- Removal tool for the fractured abutment screw.
- In case the screw is fractured inside the fixture.
- Going through the incomplete cross section on the upper part of the fractured screw to remove it.
- Recommended RPM : Less than 50 RPM



HD-SR-CM



Assemble the HD-SR-CM with a handpiece, and insert it into the fractured screw.

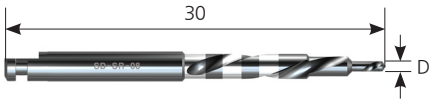


Reverse-rotate it with a speed of less than 50RPM to remove the screw.

Art No.	Length (mm)
HD-SR-CM	24

Screw Removal Drill

- Removal drill for the fractured abutment screw.
- In case the screw is fractured inside the fixture.
- A drill to form a hole in the incomplete cross section on the upper part of the fractured screw.
- The operator can identify the depth of the deletion through the laser marking on the upper part.
- Recommended RPM : 1,500 RPM



Art No.	Diameter (mm)
SD-SR-08	0.8
SD-SR-12	1.2

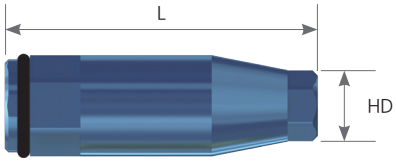
Screw Removal Tool

- Removal tool for the fractured abutment screw.
- Reverse-rotate it on the hole formed on the cross section of the fractured screw to remove it.

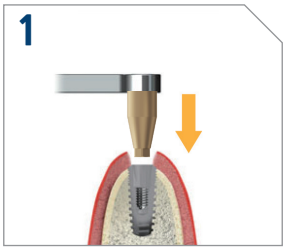
Art No.	Diameter (mm)
HD-SR-08	0.8
HD-SR-12	1.2

Screw Removal Drill Guide

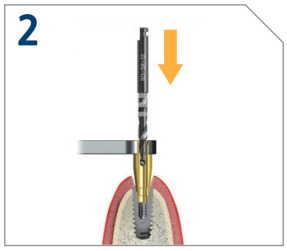
- A guide for removing the abutment screw.
- Supports to form a hole in the middle of the cross section of the fractured screw.



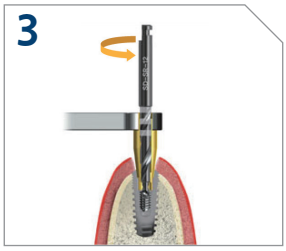
Art No.	Hex Dimension	Length (mm)	Application
UG-SR-HA	2.1	12.4	Mini
UG-SR-H	2.5	12.4	Standard



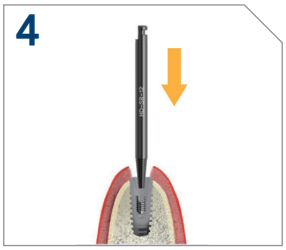
Assemble the Guide with the Guide Holder, and insert it into the fixture.



Hold the handle of the holder, and insert the Screw Removal Drill into the Guide.



Reverse-rotate the Screw Removal Drill to form a hole on the fractured screw. Proceed with the drilling at the speed of 1,500RPM or higher. Sufficient irrigation is required as cutting heat will be generated by the drilling speed. (*minimum cutting depth of 2mm)



Insert the Screw Removal Tool into the hole of the fractured screw.

Reverse-rotate the Screw Removal Tool to remove the fractured abutment screw.
(*Remove it with the speed of less than 50 RPM while applying moderate vertical pressure.)

Screw Removal Guide Holder

- Holder for screw removal guide.
- A guide for safely using the Screw Removal Drill in the oral cavity.

RGH

Art No.
RGH

Remover Torque Wrench

- Torque wrench for remover.
- 0-100Ncm : Gauge for removing the abutment and screw.
- 0-400Ncm : Gauge for removing the fixture.

RTW

Art No.
RTW

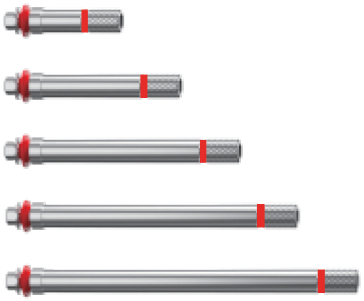
ESP Kit

Easy Screwmentation Positioner

Easy Screwmentation Positioner

Art No. : ESP KIT

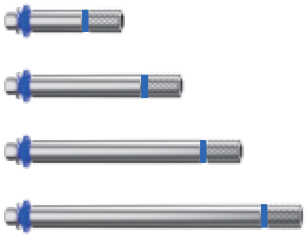
❶ ESP Shaft(2ea) — Screw Hole Ø2.35 - 2.65



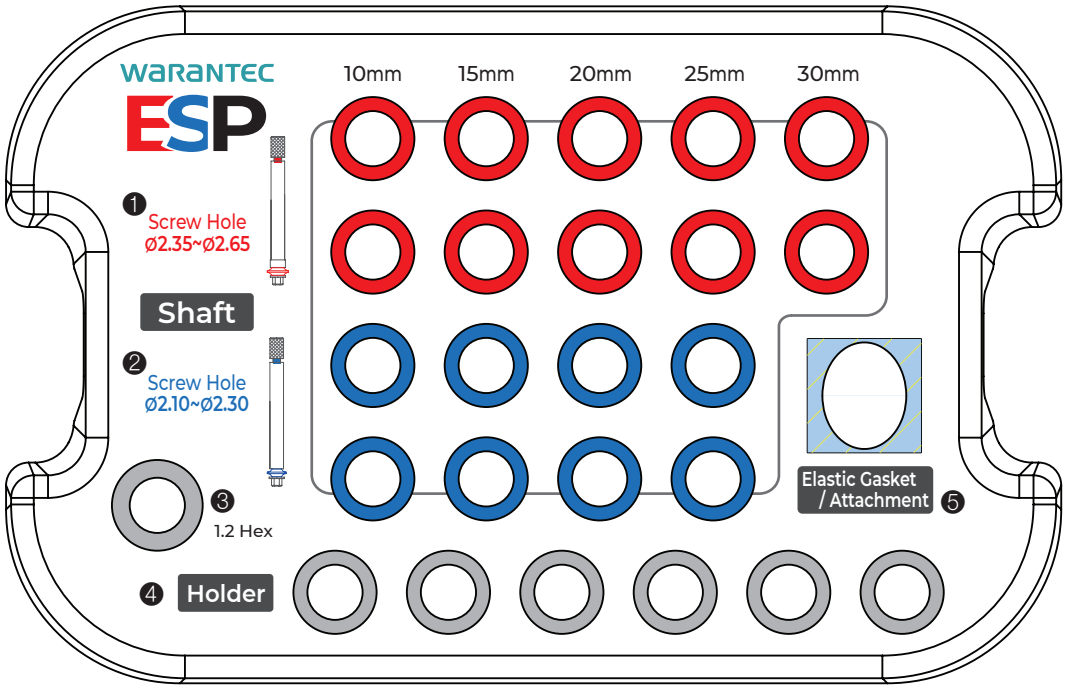
ESP-S1810
ESP-S1815
ESP-S1820
ESP-S1825
ESP-S1830

*Optional

❷ ESP Shaft(2ea) — Screw Hole Ø2.10 - 2.30



ESP-S1610
ESP-S1615
ESP-S1620
ESP-S1625



❸ 1.2 Hex

HD-TW-S

❹ ESP Holder(6 pcs)

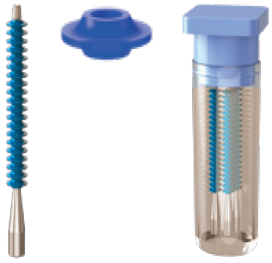
ESP-H

O-ring

❺ Elastic Gasket(3 sets)

ESP-EG18

※ Optional

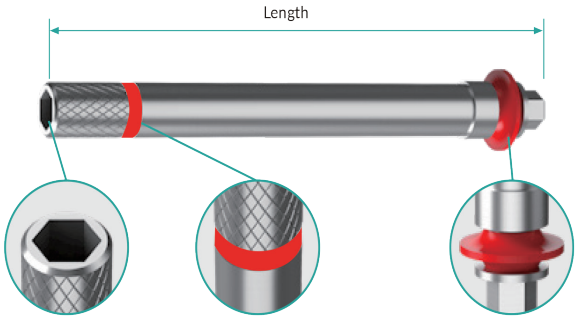


ESP-EG16

ESP can not only use the SCRP bridge crown intraorally more easily, quickly, and safely, but also enables humidity-free bonding & cementation outside of the mouth. ESP with these characteristics can be a perfect tool for the modeless prosthetic work through digital. It is a tool for the rapid & perfect clean-up of remaining cement. Also, these advantages enable the intraoral cementation, compensating for the inaccuracy generated at the stages of impression taking and the final prosthesis assembly.

ESP Shaft

- Easy handling as the abutment and the crown can be held simultaneously.
- Head part can be used as a hex driver.
- Added the 1.2 hex design on the bottom so the screw can be assembled with a shaft.
- Applied the safety design that makes the head part gets fractured if the torque value exceeds the appropriate (25N) value.
- Assemble by hand using a 1.2 hex driver.
- Recommended tightening torque : 15Ncm



Art. No.	Package Components	Applicable Screw Hole	Length
ESP-S1810		Ø2.35 - 2.65	10
ESP-S1815			15
ESP-S1820			20
ESP-S1825			25
ESP-S1830			30

* Optional

Art. No.	Package Components	Applicable Screw Hole	Length
ESP-S1610		Ø2.10 - 2.30	10
ESP-S1615			15
ESP-S1620			20
ESP-S1625			25

Elastic Gasket

- Fix the abutment by assembling with the shaft.
- Applied the design that can easily remove the remaining cement inside the crown.
- It is a disposable product. Reusing the product may cause a technical problem.
- Easy replacement with gasket holder.

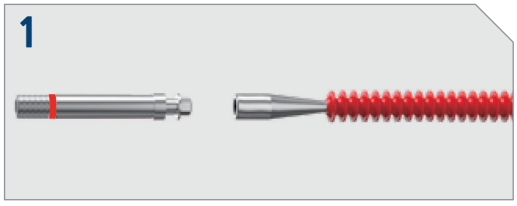
ESP-EG18

ESP-EG16

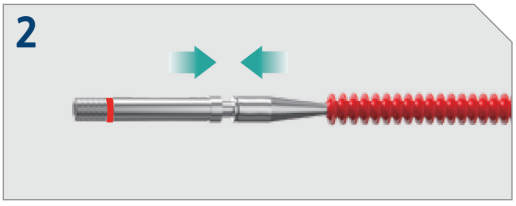
*Optional

Gasket Holder (ORH)

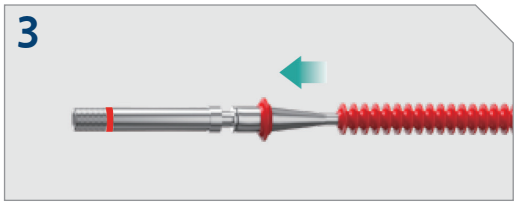
How to Assemble the Elastic Gasket to a Shaft



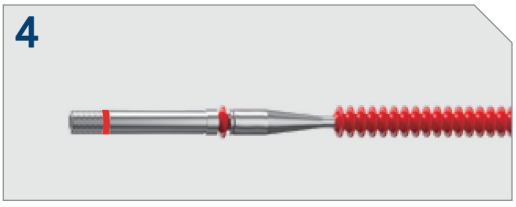
Hold the shaft and the gasket holder.



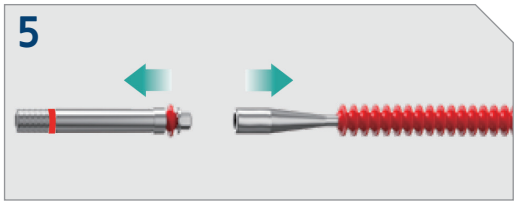
Engage the hex part of a shaft to the cylinder part of the gasket holder.



Move one elastic gasket from the gasket holder to the shaft.



Check if the elastic gasket is placed on the shaft correctly.



Detach the shaft from the gasket holder.

ESP Holder & Hex Driver

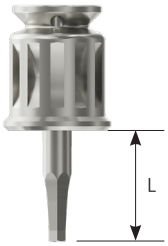
ESP Holder

- It fixes the abutment and crown by being combined with the a shaft.
- Use it for Try-in & out.

ESP-H

1.2 Hex Driver

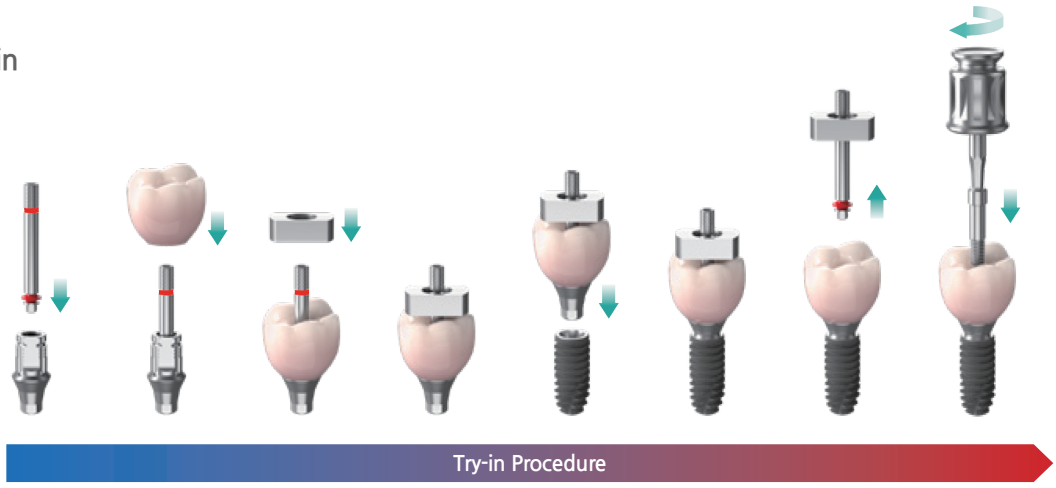
- Use it only with hand force by assembling it with the ESP shaft.
- Lengths of short, long, and extra long drivers are provided for the convenience of the user.
- Package components : hex driver



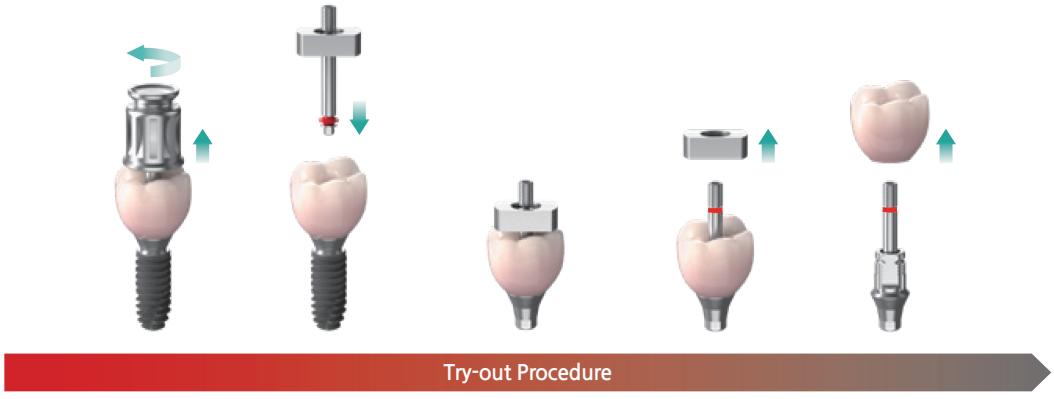
Art No.	Diameter(mm)	Length(mm)
HD-TW-L	1.2	13

Bone Level Protocol

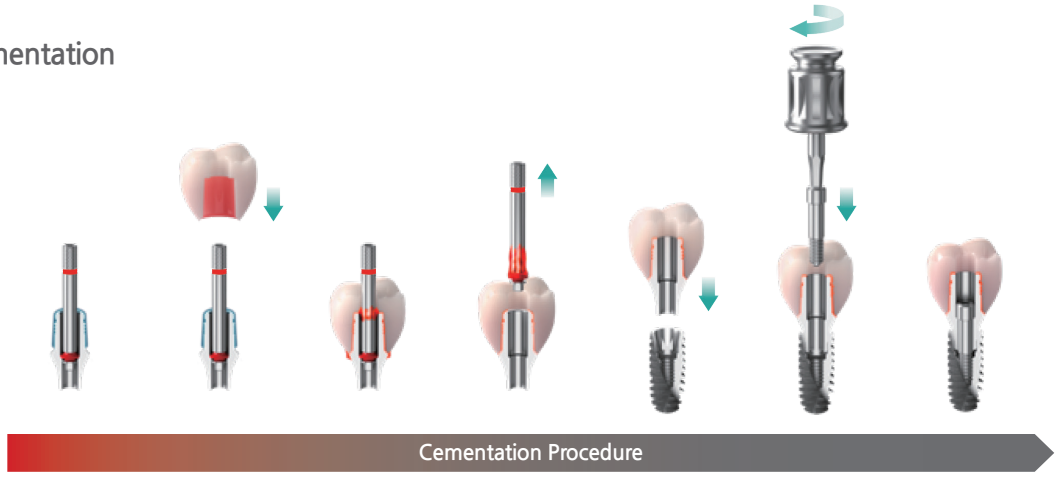
Try-in



Try-out

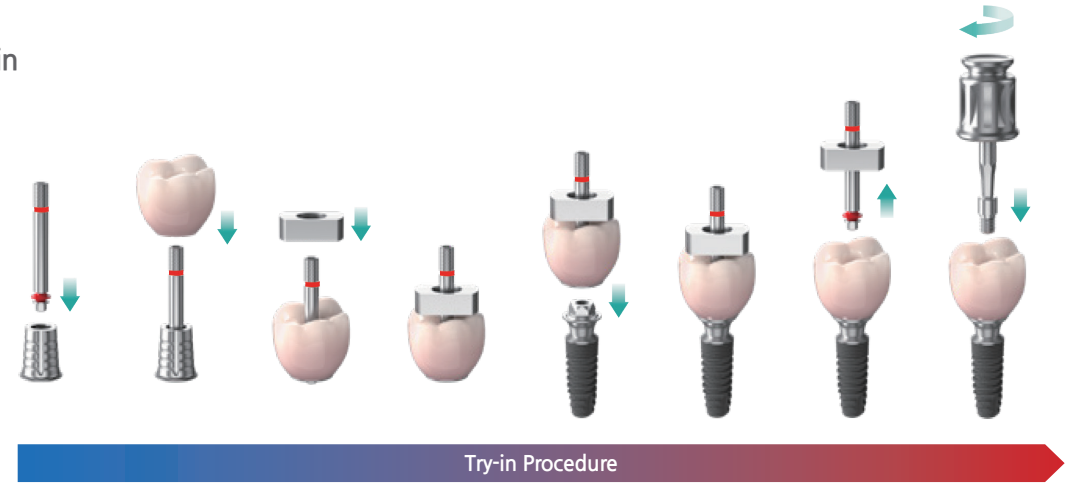


Cementation

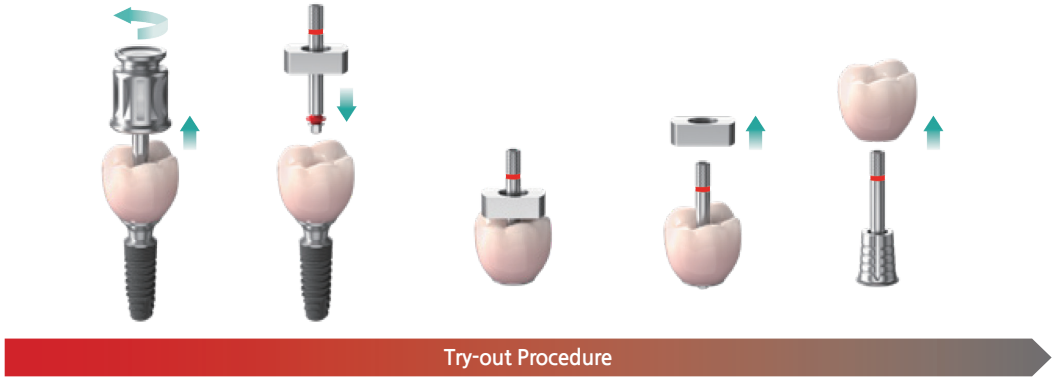


Tissue Level Protocol

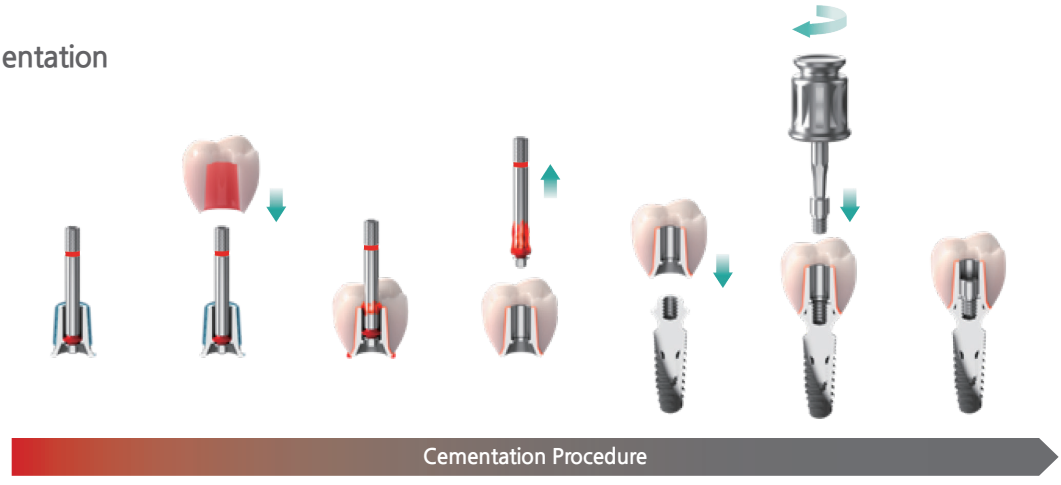
Try-in



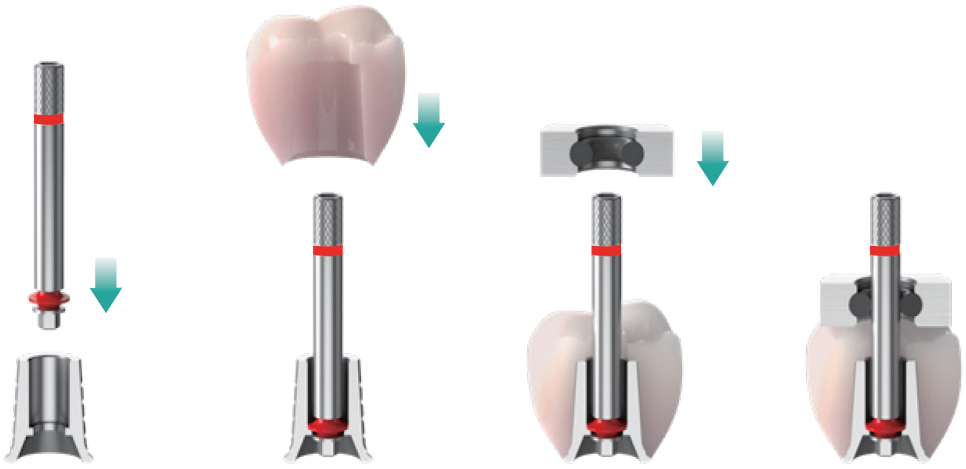
Try-out



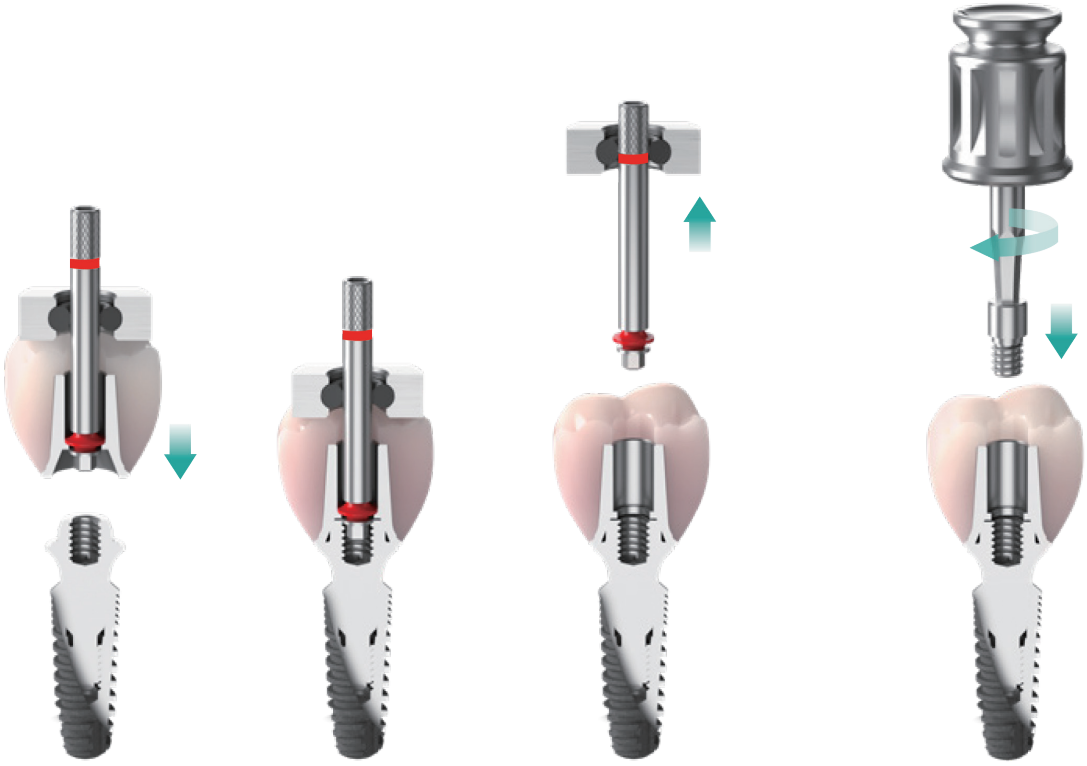
Cementation



ESP Try-in



Sit the crown on the abutment using a shaft, and grab the abutment and crown as one piece by using the holder.

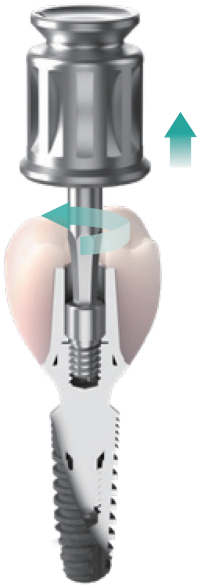


The operator can easily, quickly, and safely try-in the combined prosthesis through ESP.

Disengage the ESP shaft and holder.

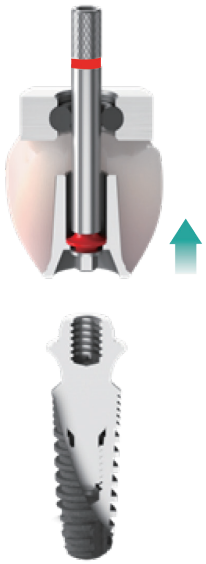
Engage the abutment screw and driver from the outside of the mouth, then assemble it to the intraoral prosthesis.

ESP Try-out



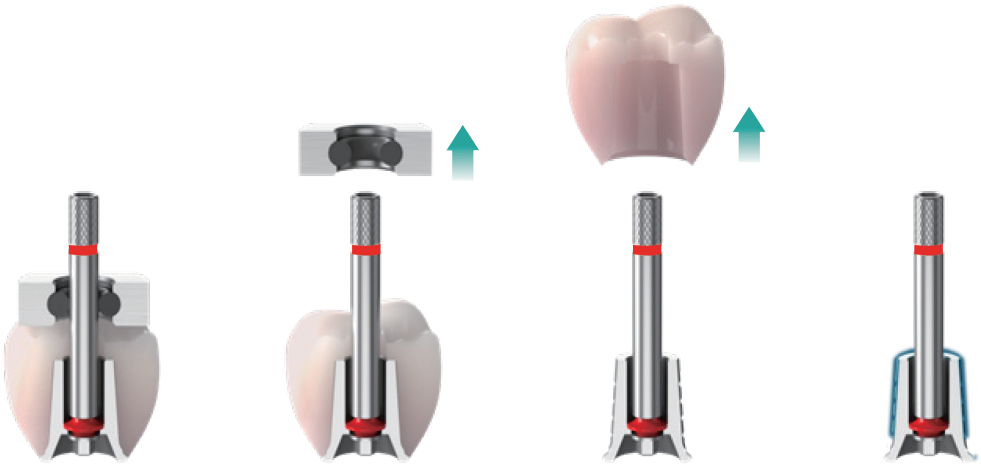
Tighten the prosthetic screw with a driver, then rotate it counterclockwise to disassemble.

Engage the ESP shaft and holder from the outside of the mouth, then assemble it on the intraoral prosthesis.

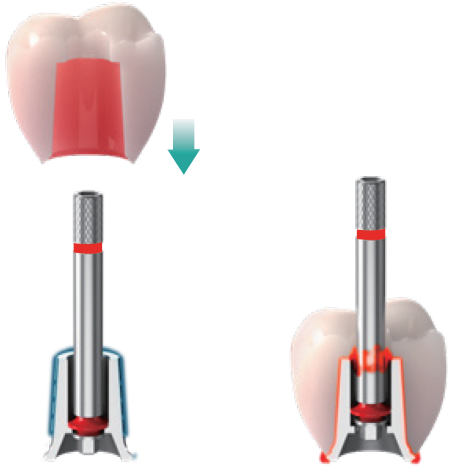


The operator can easily, quickly, and safely try-out the combined prosthesis through ESP.

ESP Cementation



Engage the ESP to the abutment and proceed with the primer & bonding from outside of the mouth in humidity-free condition.



Combine the cemented prosthesis in humidity-free condition.

Remove the remaining cement in the marginal zone, disassemble the ESP shaft from the cemented prosthesis vertically, and thoroughly remove the remaining cement inside the prosthesis hole.

ESP Cementation

Assemble the cemented prosthesis to the placed fixture.

Engage the abutment screw and driver from the outside of the mouth, then assemble it to the intraoral prosthesis.

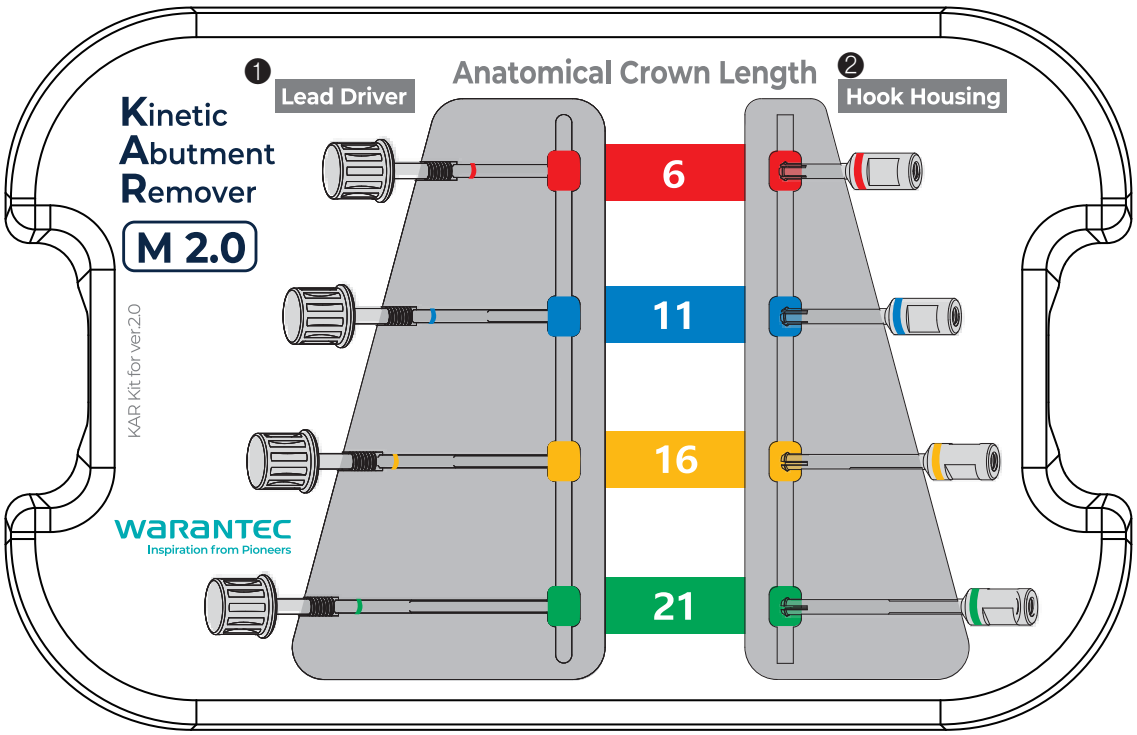
Harden the cement after biting.

KAR Kit

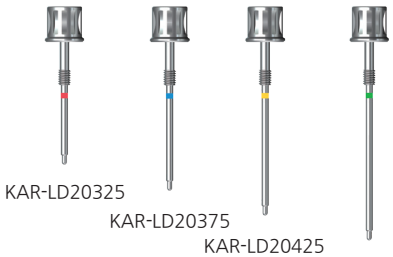
Kinetic Abutment Remover

Kinetic Abutment Remover

Art No. : KAR KIT

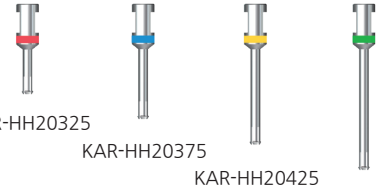


❶ KAR Lead Driver



KAR-LD20325
KAR-LD20375
KAR-LD20425
KAR-LD20475

❷ KAR Hook Housing



KAR-HH20325
KAR-HH20375
KAR-HH20425
KAR-HH20475

❸ KAR Housing Holder

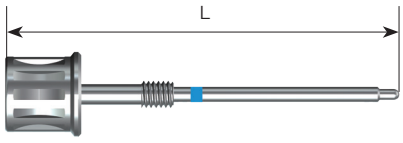
KAR-HH

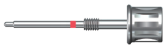
KAR is a tool that helps disengaging the abutment from the internal conical joint fixture when it is stuck due to friction without damaging the prosthesis through the controlled axial load.
Remnants of the fractured abutment can also be easily removed by using KAR.

KAR

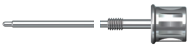
Lead Driver

- It can be used to remove the abutment when the assembled part is fractured with hook housing.
- A tool that is inserted by penetrating the Hook Housing.
- Blocks contraction to maintain the grip force of Hook Housing that holds the abutment, and at the same time, disassembles the abutment from the fixture by pushing the bottom of the fixture with the turning force that is generated from engaging it to the Hook Housing.
- Recommended : Less than 50 RPM



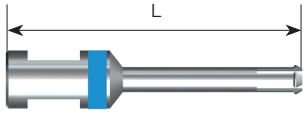
Art No.	Package Components	Length	Applicable Screw Hole Size
KAR-LD20325		32.5	1.95~2.15
KAR-LD20375		37.5	
KAR-LD20425		42.5	
KAR-LD20475		47.5	

* Optional

Art No.	Package Components	Length	Applicable Screw Hole Size
KAR-LD16425		42.5	1.8~1.95
KAR-LD16475		47.5	

Hook Housing

- An instrument that goes through the screw hole of abutments to vertically reach the top part of the hex or non-hex structure in the abutment assembled to the fixture.
- It can be used to remove the abutment when the assembled part is fractured.



Art No.	Package Components	Length	Applicable Screw Hole Size
KAR-HH20325		19.1	1.95~2.15
KAR-HH20375		24.1	
KAR-HH20425		29.1	
KAR-HH20475		34.1	

* Optional

Art No.	Package Components	Length	Applicable Screw Hole Size
KAR-HH16425		29.1	1.8~1.95
KAR-HH16475		34.1	

Housing Holder

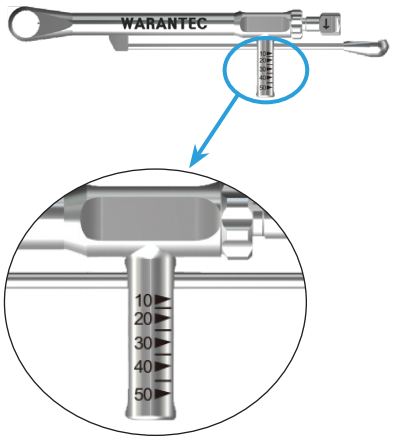
- A tool that holds the Hook Housing so that it does not rotate when engaging the lead driver into hook housing.
- The round tip on the other side can be used when the operator uses a destructive method to remove the abutment.

Art No.
KAR-HH

Torque Wrench

* Optional

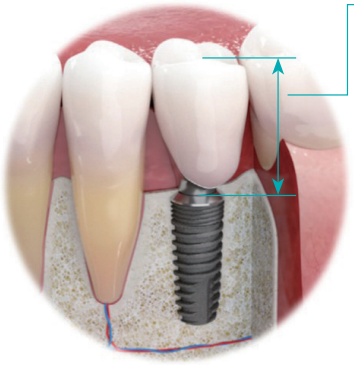
- Used to apply torque by engaging it to the Lead Driver.
- Apply the torque by pulling the bar up to the indicated torque value line set by user.
- Rotate the pivot hand of the torque wrench to change the torque direction.



Art No.
TW

Try-in Abutment Remover

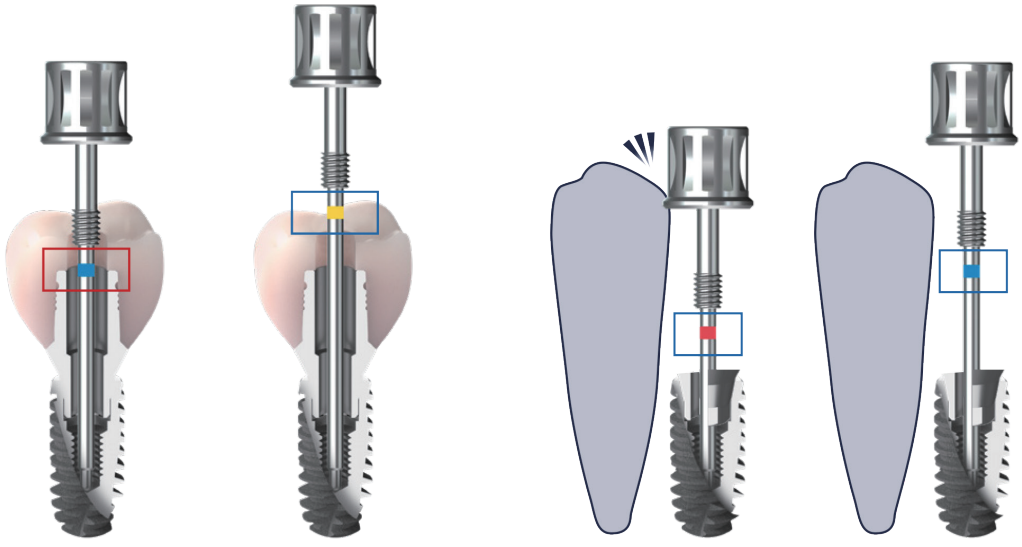
KAR Length Guide



Usage Range / Screw Hole	Anatomical Crown Length mm			
	6	11	16	21
1.8 ~ 1.95 mm			KAR-LD16425	KAR-LD16475
1.8 ~ 1.95 mm			KAR-HH16425	KAR-HH16475
1.95 ~ 2.15 mm	KAR-LD20325	KAR-LD20375	KAR-LD20425	KAR-LD20475
1.95 ~ 2.15 mm	KAR-HH20325	KAR-HH20375	KAR-HH20425	KAR-HH20475

1.8 ~ 1.95 mm	Hole size for M1.8 screw products
1.95 ~ 2.15 mm	Hole size for M2.0 screw products

Anatomical Crown Length Try-In



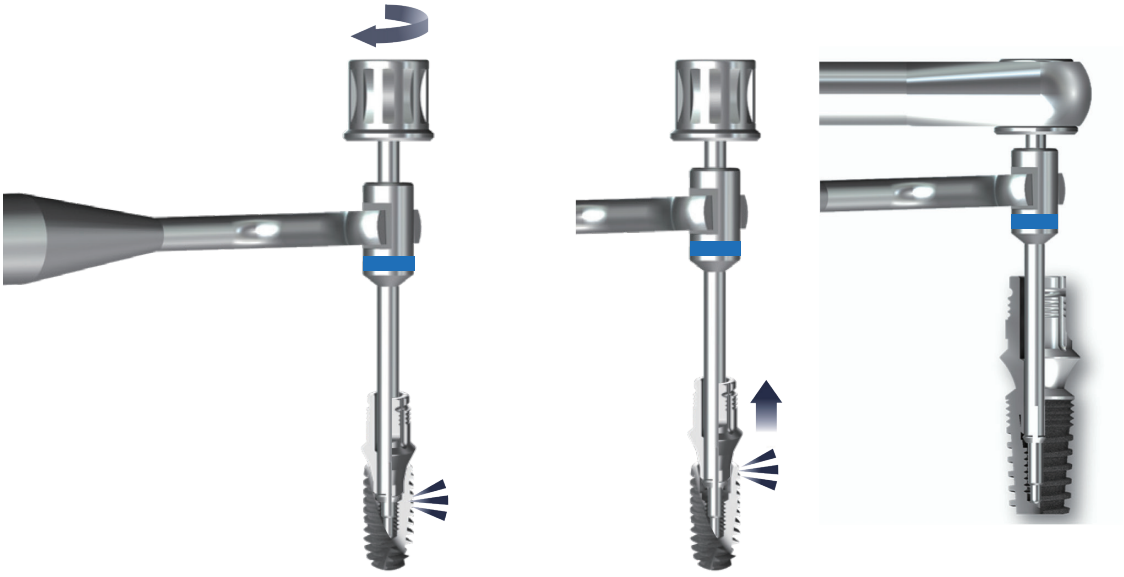
If the color coding is not visible, **it cannot be operated.**

If the color coding is visible, **it can be operated.**

The color coding is visible, but it may interfere the adjacent tooth, **so choose the length by considering the situation.**

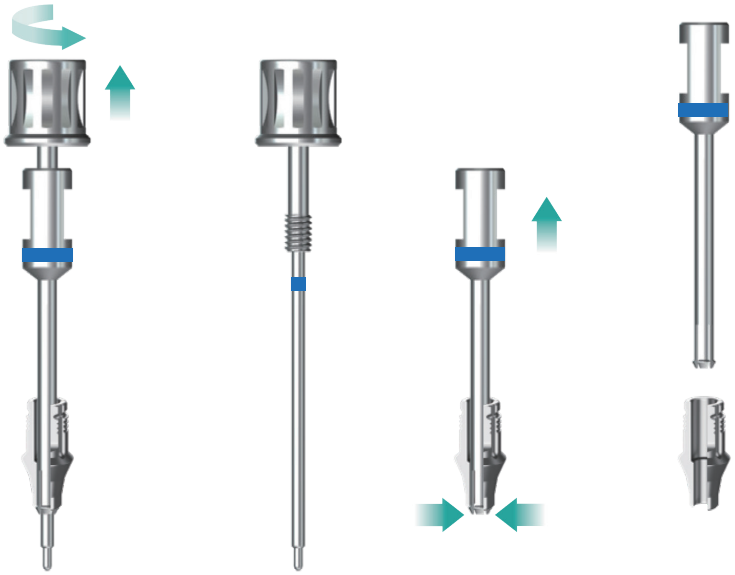
Try-in Abutment Remover

Hold the Hook Housing with a Housing Holder, and rotate the Lead Driver with your hand until there is resistance.



Engage the Torque Wrench to the Lead Driver, and rotate it to insert it into the Hook Housing. It will push the bottom of the screw hole of the fixture, disassembling the abutment with a friction-cracking sound.

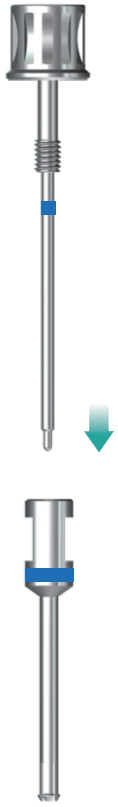
Try-in Abutment Remover



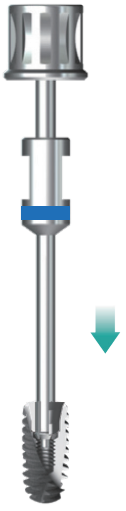
Reverse-rotate the Lead Driver to disengage, gently hold the head of the Hook Housing with hand, and remove it vertically from the abutment.

Fractured Abutment Remover

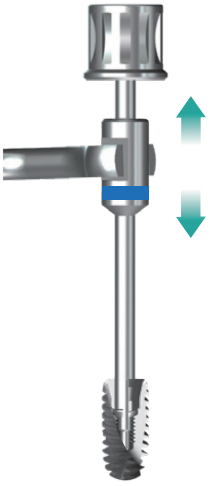
Fractured Abutment Remover



Rotate the lead driver and Hook Housing until the housing and driver meet at the bottom.



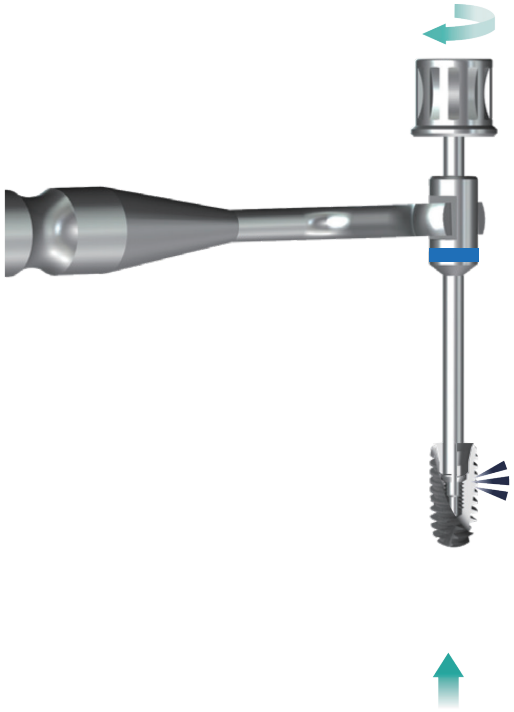
Insert the attached Lead Driver and Hook Housing into the screw hole of the fractured abutment vertically.



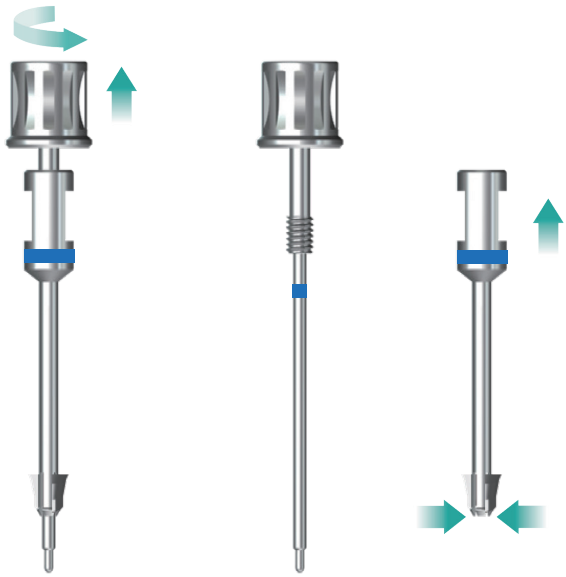
After engaging the lead driver and the Hook Housing, check whether the Hook Housing is appropriately engaged by shaking it up and down.

Hold the Hook Housing with a Housing Holder, and rotate the Lead Driver with your hand until there is resistance.

Fractured Abutment Remover



Engage the Torque Wrench to the Lead Driver, and rotate it to insert it into the Hook Housing. It will push the bottom of the screw hole of the fixture, disassembling the remaining abutment with a friction-cracking sound.



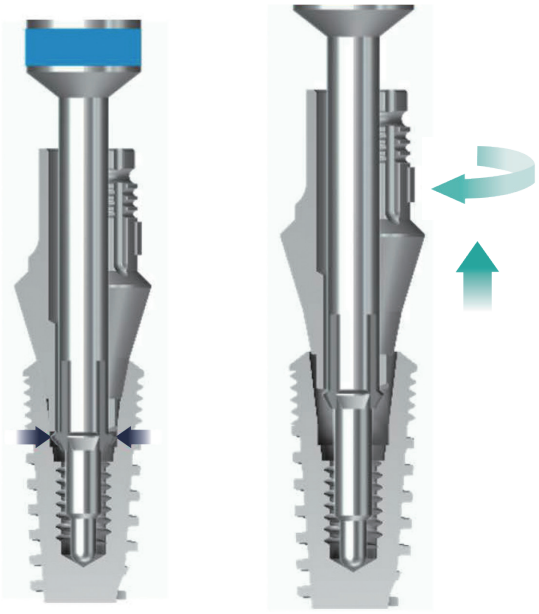
Reverse-rotate the Lead Driver to disengage, gently hold the head of the Hook Housing with your hand, and remove it vertically from the remaining abutment.

Fractured Abutment Remover

Special Tip

A destructive method when it cannot be removed because of the strong friction:
- Insert the straight bar of the Housing Holder into the abutment and shake it left and right to break the friction.

Operation Principle



Even if the system does not have enough space for the Hook Housing to engage to the bottom part, the Hook Housing will grab the internal wall of the screw hole and remove the abutment.

WARANTEC
New Products

WA Motor

WA Bone

Bone Dozer

WA Mem

WA Motor

Warantec Implant Motor

WA Motor

- Reusable irrigation tube after the sterilization.
- Auto calibration function.
- Powerful force up to 70 Ncm(20 :1 gear handpiece)
- Function to stop automatically when exceed the set torque value.
- Large LCD display for various information.
- Show torque and RPM in real-time.
- Optic motor.

Art. No.	Product
WA Motor	Impalnt Engine

Thread Cutting Function

Thread cutting is available in Tapping mode among 6 basic programs.

[The thread cutter function supports the surgery when makes tap for implants in to dense (D1) bone.]

Select Tapping
&
Set Torque

When Reach
Preset Torque

It Automatically
Reverses

WA Bone

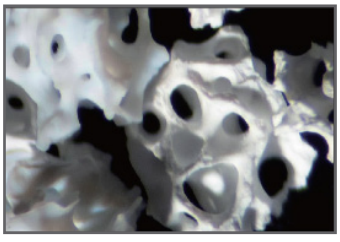
Warantec Bone

WA Bone

- Bovine bone. (Cancellous 100%)
- High stability implantation through the natural bone mineral materials.
- Uniform particle formation that consisted of cancellous bone.
- Porous structure which is similar to cancellous bone of human.
- Accelerate the formation and growth of the new bone
- High biocompatibility reduces the inflammation and immune response.
- Vial Type.
- Particle size : 0.2-1.0 mm

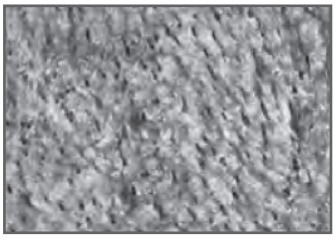
Double-sealed
Safety package

Wide internal surface area



Stable Porous Structure

Minimizes vitrification



Surface with the high bone conduction

Art. No.	Product
01 - 0210	WA Bone 0.1g
25 - 0210	WA Bone 0.25g
05 - 0210	WA Bone 0.5g
10 - 0210	WA Bone 1.0g

WA Bone thesis statement

WA Bone and PRP Techniques

Sinus Bone Graft

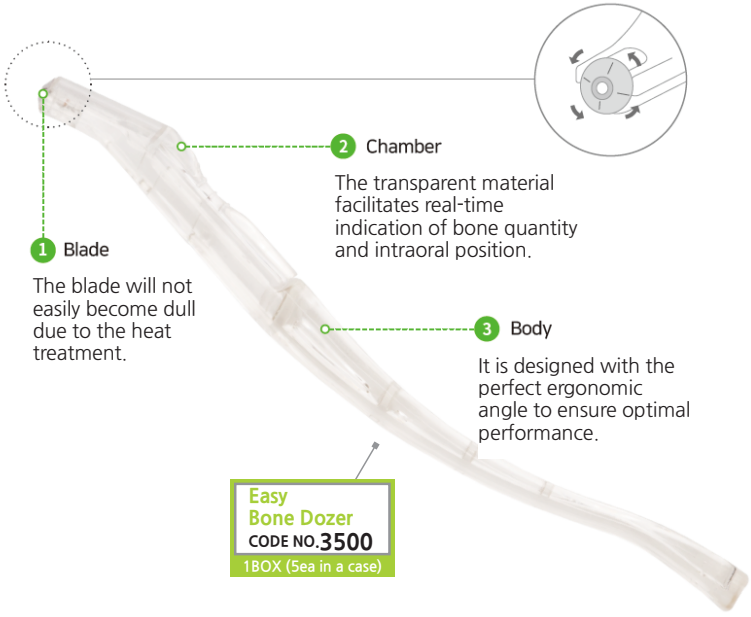
Crestal(Alveolar Bone Graft)

Bone Dozer

Warantec Instrument

Easy Bone Dozer

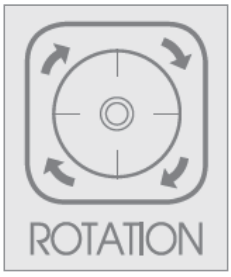
- A disposable scraper for collecting autogenous bone.
- It has a curved structure in front so that it is easier for lateral access intraorally.
- The blade rotates 360°, so if you rotate it 90° to use it, you can use 4 new blades.
- User can check the amount of autologous bone collected in real time because the product is transparent.



Art. No.	Product
3500	Easy Bone Dozer

※ Please sterilize the product before use because it is packed in a non-sterile package.

Rotate it with 1.2 hex driver.



If the blade becomes dull, rotate it by 90° and use it upto 4 times.

Start collecting bones.

Bone collection completed.

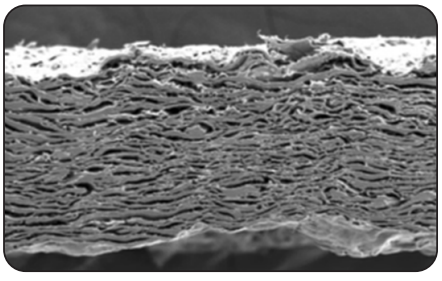
WA Mem

Porcine Membrane

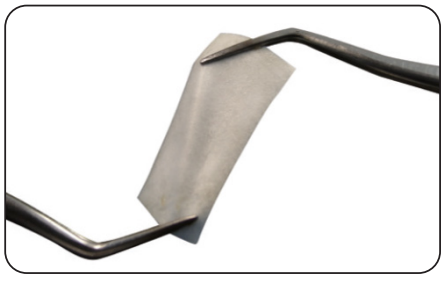
Indication

- For augmentation of bone surrounding implants placed in extraction sockets
- Ridge augmentation / reconstruction
- Filling of bone defects after root resection, regained teeth, and etc.
- Guided bone regeneration in dehiscence defects
- Guided tissue regeneration in periodontal defects
- Made in Korea / Immediately available / CE and FDA to be done by 2Q of 2024

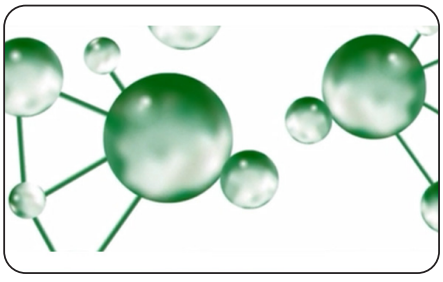
Features



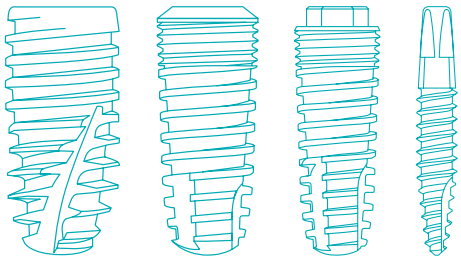
Dense collagen pore structure



Easy manipulation(Thin & Flexible)
Size 15 X 30 X 0.3mm (One size)



Over 99% purity collagen



WARANTEC

Inspiration from Pioneers

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