



SlimLine
Product Catalog / Manual

Dentium
For Dentists By Dentists

Dentium
For Dentists By Dentists

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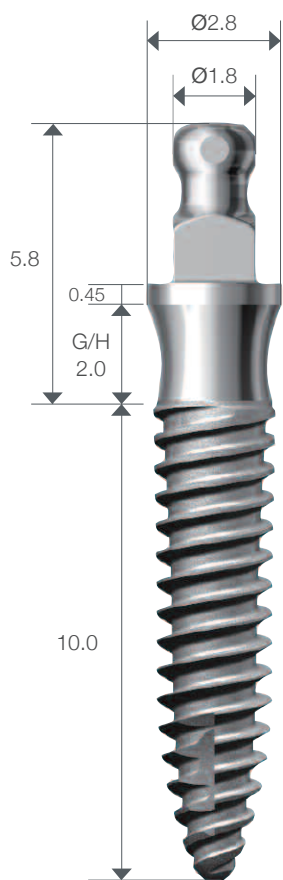
SlimLine Characteristics

Unit: mm

One Body Design

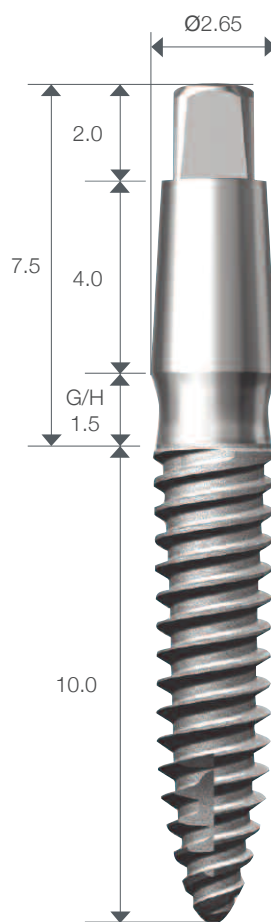
- S.L.A. surface and torque adjustable ridge spreader enable immediate or early loading
- Mini ball (Ø1.8) & metal socket make denture production easy
- Wide range of choice for prosthetic options

Mini Ball Type



IBS252010

Fix Type

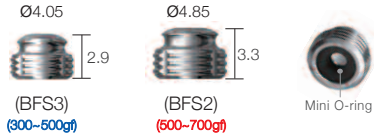


IUS251510

SlimLine Characteristics

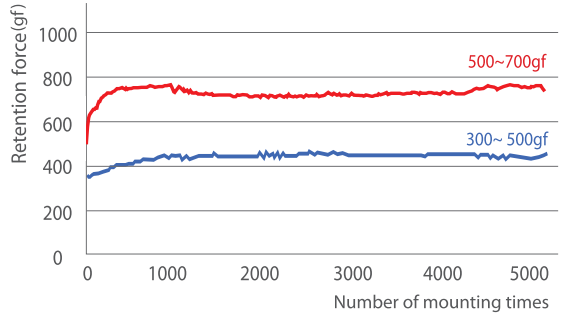
Unit: mm

Denture System

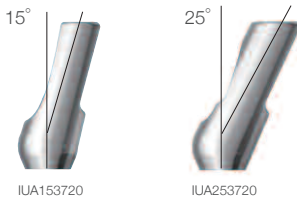


- Mini ball size (Ø1.8)
- Mini o-ring type denture socket
- Minimal-size denture socket
- Mini o-ring are replaceable

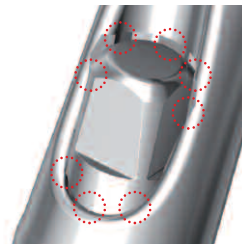
Mini O-Ring Retention Force



Angled Abutment

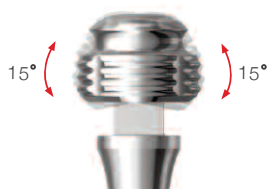


- Slanted implanting is possible with the combination of angled abutment (15°, 25°).
- Cement the final restoration onto the abutment.



Selecting direction is easy due to the Octa 45° rotation angles.

Tilting Angle



Up to ±15 degrees of tilting angles to accommodate the pathway of the implant.

Double Thread Design

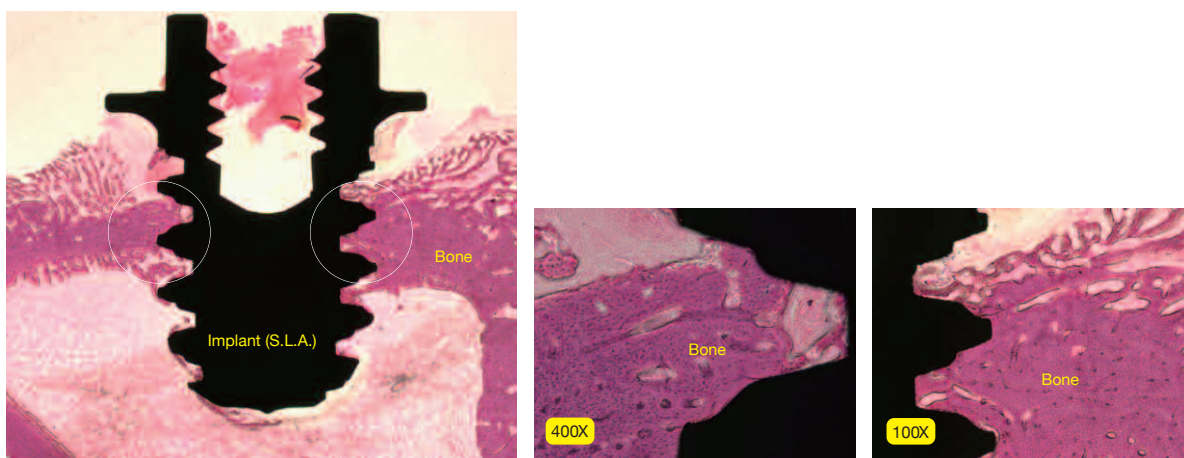
- Increased thread height helps strengthen the initial stability.
- Double threading helps decrease the chair time of implantation.

S.L.A. Surface

S.L.A. (Sandblasting with large grit and acid etching)

- Higher bone-to-implant contact.
- Faster bone formation on the surface.

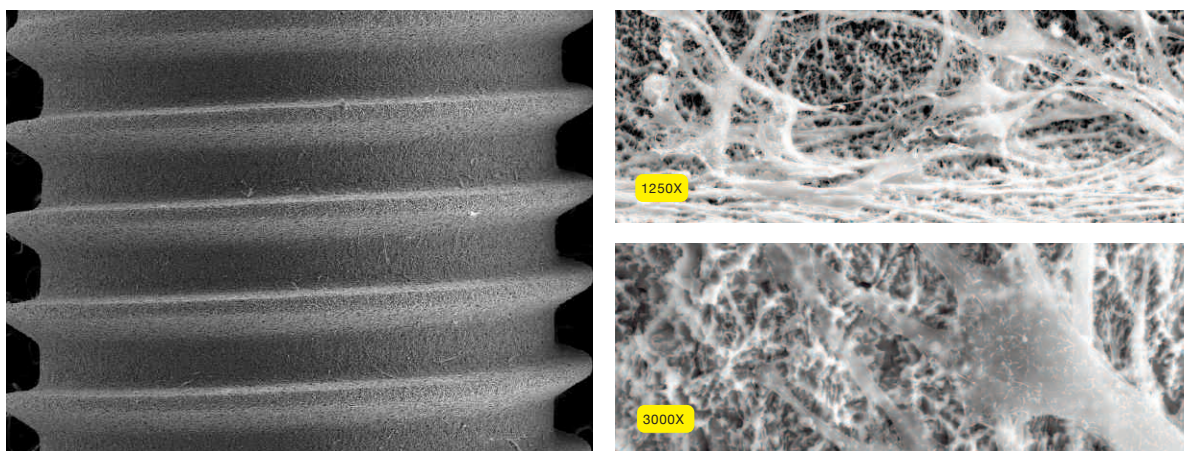
In vivo test



Fast new bone formation in between the threads.

Human osteoblast

- Well attached and proliferated human osteoblasts.

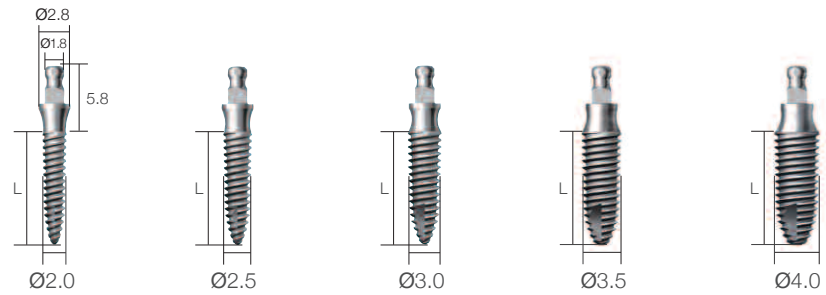


Cell number 3×10^4 , After 7 days of cell culture

SlimLine Fixture

Unit: mm, Scale 1 : 1.5 / mm

Mini Ball Type Fixture



L	Body Ø2.0	Body Ø2.5	Body Ø3.0	Body Ø3.5	Body Ø4.0
06	IBS 2020 06	IBS 2520 06	IBS 3020 06	IBS 3520 06	IBS 4020 06
08	IBS 2020 08	IBS 2520 08	IBS 3020 08	IBS 3520 08	IBS 4020 08
10	IBS 2020 10	IBS 2520 10	IBS 3020 10	IBS 3520 10	IBS 4020 10
12	IBS 2020 12	IBS 2520 12	IBS 3020 12	IBS 3520 12	IBS 4020 12
14	IBS 2020 14	IBS 2520 14	IBS 3020 14	IBS 3520 14	IBS 4020 14

Fix Type Fixture



L	Body Ø2.0	Body Ø2.5	Body Ø3.0	Body Ø3.5	Body Ø4.0
06	IUS 2015 06	IUS 2515 06	IUS 3015 06	IUS 3515 06	IUS 4015 06
08	IUS 2015 08	IUS 2515 08	IUS 3015 08	IUS 3515 08	IUS 4015 08
10	IUS 2015 10	IUS 2515 10	IUS 3015 10	IUS 3515 10	IUS 4015 10
12	IUS 2015 12	IUS 2515 12	IUS 3015 12	IUS 3515 12	IUS 4015 12
14	IUS 2015 14	IUS 2515 14	IUS 3015 14	IUS 3515 14	IUS 4015 14

Prosthetic Procedure

Impression Technique and Restoration Selection



Mini Ball Type

Ø2.0 / Ø2.5 / Ø3.0 / Ø3.5 / Ø4.0

Page 07



Impression Coping

Ø3.8

Page 09



Analog

Page 09



Socket Spacer

Page 09



Denture Socket

300~500gf / 500~700gf

Ø4.05 / Ø4.85

Page 09



Mini O-ring

Page 09



Fix Type

Ø2.0 / Ø2.5 / Ø3.0 / Ø3.5 / Ø4.0

Page 07



Impression Coping

Ø3.8

Page 09



Analog

Page 09



Dual Abutment

Ø3.5 / Ø4.5

Page 10



Angled Abutment

15° / 25°

Page 10

Denture Components

Unit: mm, Scale 1 : 1.5 / mm

Comfort Cap

Art. No.	ICC
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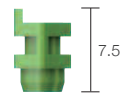
Ø2.9



Impression Coping

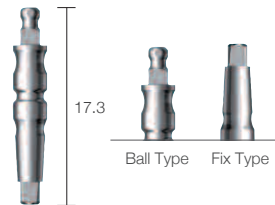
Art. No.	ICA
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Ø3.8



Analog

Art. No.	IANF2015
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Socket Spacer

Art. No.	BIC3L
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Female Socket

Art. No.	BPF3 (300~500gf)
	BPF2 (500~700gf)

Denture Socket + O-ring

Ø4.05

(300~500gf)



(BFS3)



(BNO1)

Ø4.85

(500~700gf)



(BFS2)



(BNO2)

Fix Type Abutment

Unit: mm, Scale 1 : 1.5 / mm



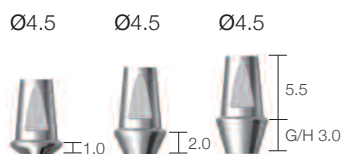
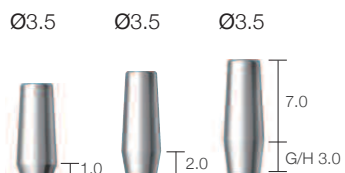
IUDA3520 and IUS251510



IUA153720 and IUS251510

Dual Abutment

Diameter	Art. No.
Ø3.5	IUDA3510
	IUDA3520
	IUDA3530
Ø4.5	IUDA4510
	IUDA4520
	IUDA4530



Angled Abutment

Angled	Art. No.
15°	IUA153720
25°	IUA253720



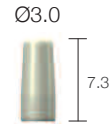
Abutment Level Impression Components

Fix Type Fixture

Unit:mm, Scale 1: 1.5 / mm

Comfort Cap

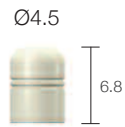
Art. No.	FCC
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Fix Type Dual Abutment

Comfort Cap

Art. No.	CCC45C
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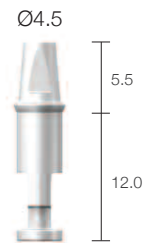
Impression Coping

Art. No.	CIC45L
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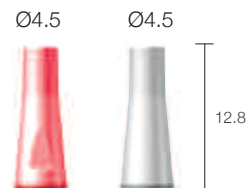
Lab Analog

Art. No.	CAN45LL
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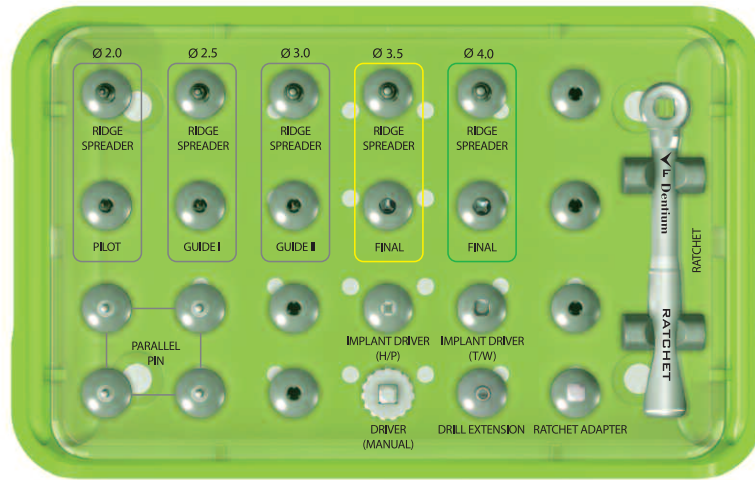


Burn-out Cylinder

Type	Art. No.
Single	CBC45SL
Bridge	CBC45BL



















Surgical Kit



XIFS

Kit Contents

• Pilot drill		XFD1135	• Implant driver H/P		IPST25H
• Guide drill I		XFD1635	• Implant driver T/W		IPST25W
• Guide drill II		XFD2135	• Driver (Manual)		XHDHT
• Final drill	 	XFD3435 XFD3835	• Parallel pin X 4		XPP131822
• Ridge spreader	    	RS201036R RS251036R RS301036R RS351036R RS401036R	• Ratchet adapter		XRA3917
			• Drill extension		XDE
			• Ratchet		XRCA1

Drill

Unit: mm, Scale 1 : 1 / mm

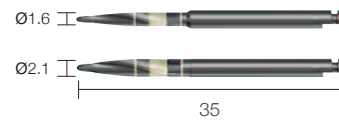
Pilot Drill

Diameter	L	Art. No.
Ø1.1	35	XFD1135



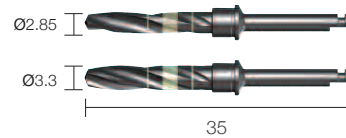
Guide Drill

Diameter	L	Art. No.
Ø1.6	35	XFD1635
Ø2.1	35	XFD2135



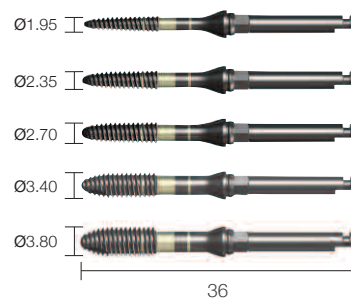
Final Drill

Diameter	L	Art. No.
Ø2.85	35	XFD3435
Ø3.3	35	XFD3835



Ridge Spreader

Diameter	L	Art. No.
Ø1.95	36	RS201036R
Ø2.35	36	RS251036R
Ø2.70	36	RS301036R
Ø3.40	36	RS351036R
Ø3.80	36	RS401036R

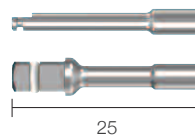


Instrument

Unit: mm, Scale 1 : 1 / mm

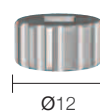
Implant Driver

Type	Art. No.
Hand-piece	IPST25H
Ratchet	IPST25W



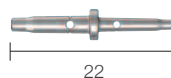
Driver

Type	Art. No.
Manual	XHDHT



Parallel Pin

XPP131822



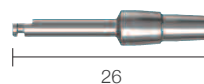
Ratchet Adapter

XRA3917



Drill Extension

XDE



Ratchet

XRCA1





Manual

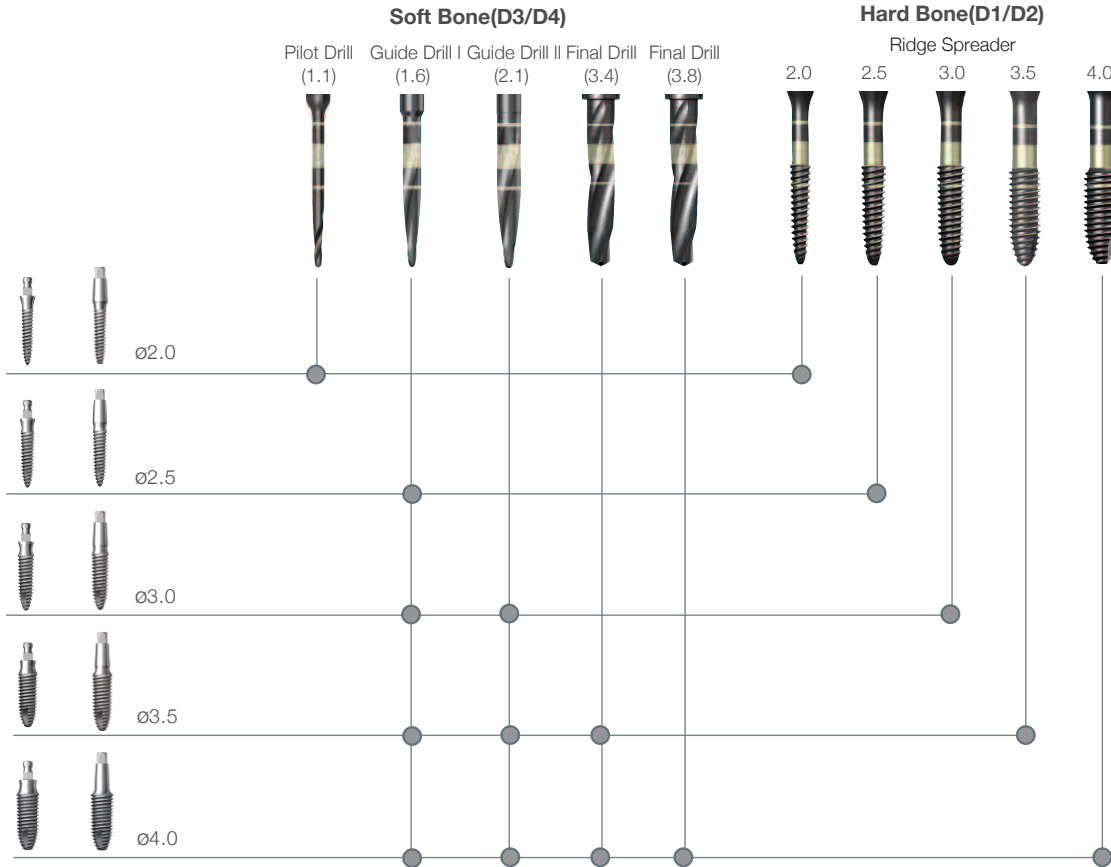
Surgical Manual

Prosthesis Manual

Surgical Drill Sequence

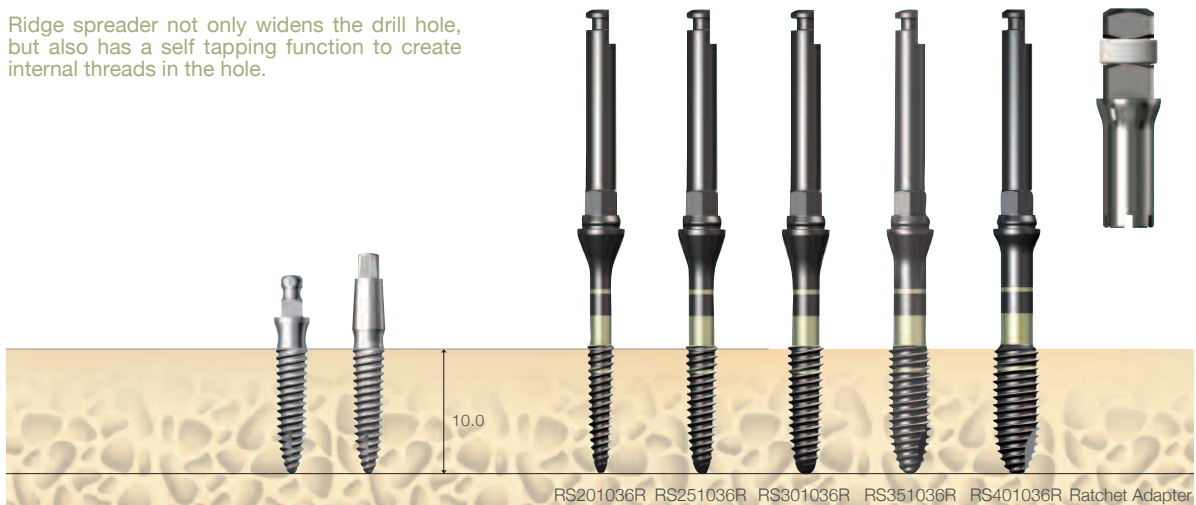
Drilling Sequence Guide

- Pilot & Guide Drill: 1,000rpm / 30~45N·cm
- Ridge Spreader: 20rpm / 30~45N·cm



Ridge Spreader Hard Bone (D1/D2)

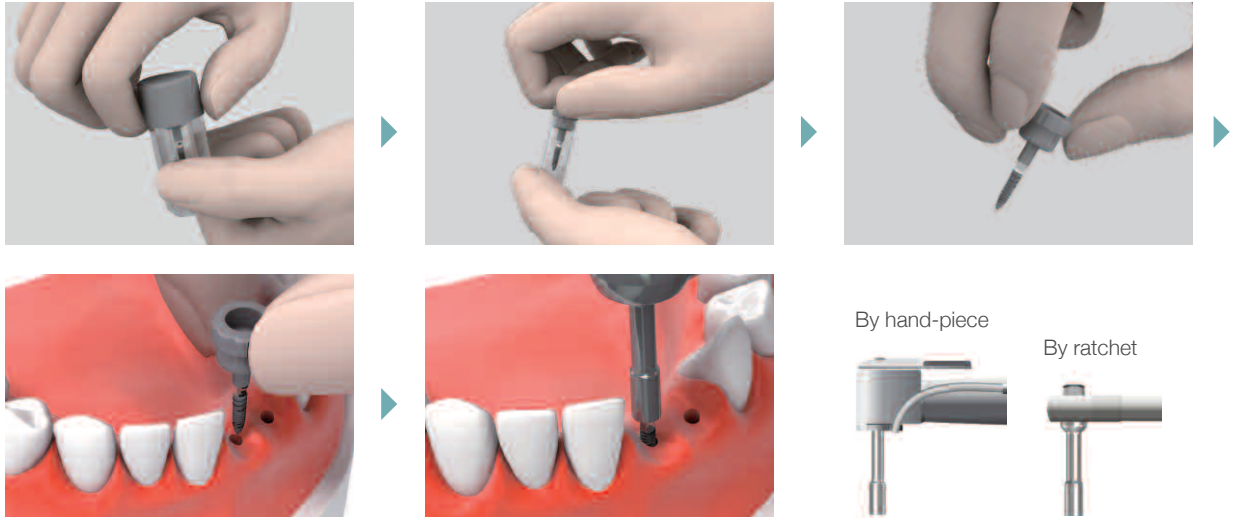
Ridge spreader not only widens the drill hole, but also has a self tapping function to create internal threads in the hole.



In case of hard bone, use the ridge spreader in advance to avoid excessive torque during implantation. Connect the adapter to the ridge spreader when manually tapping with ratchet.

Surgical Process

Implantation Process:



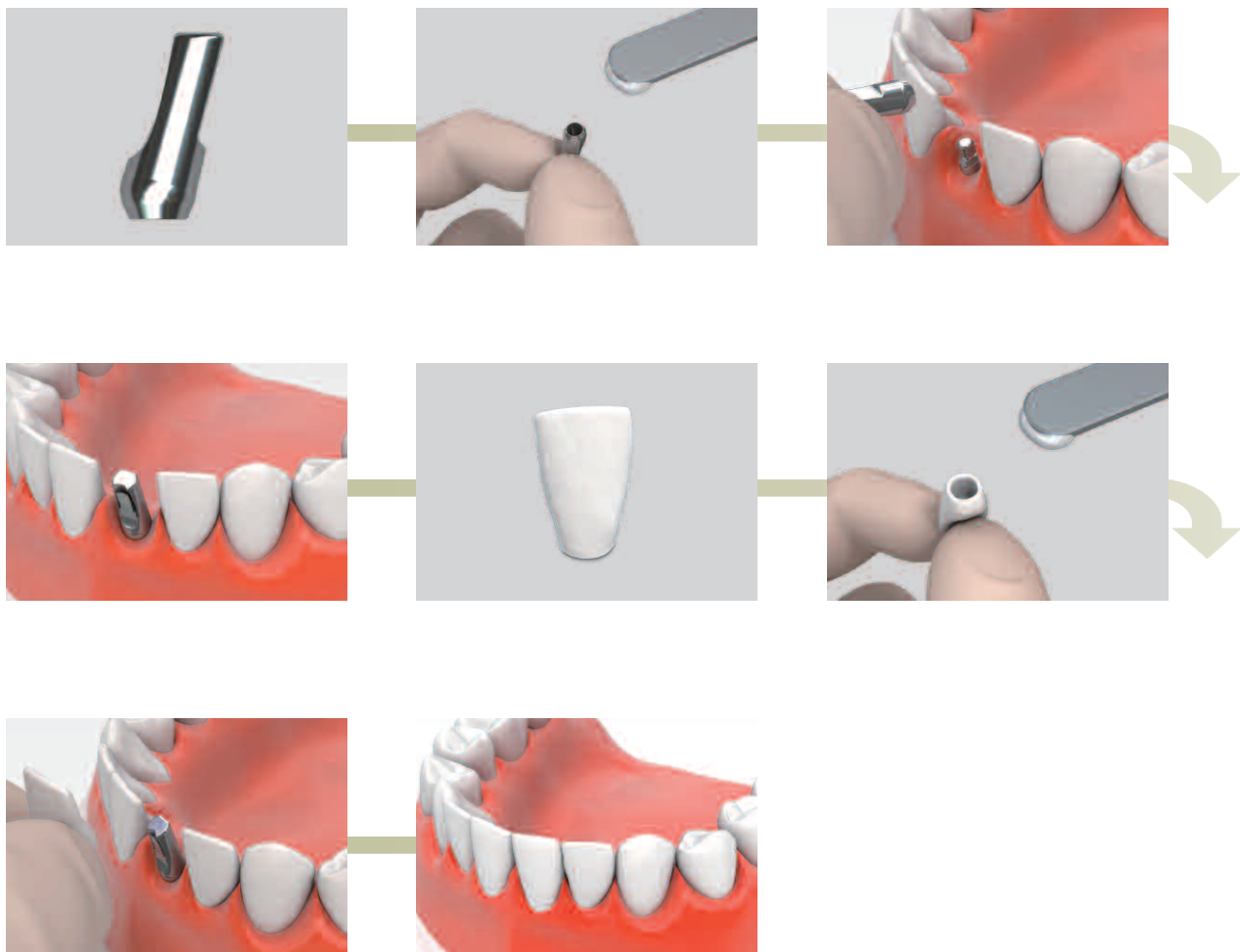
Use the cap to start the implantation of the fixture. When the linkage between the cap and fixture deforms after reaching 5N-cm of tightening force, remove the disengaged cap and continue implantation using the MF tool in the surgical kit.

Please make sure that the fixture and the implant driver are engaged completely before loading.



Prosthetic Process

Fix Type Angled Abutment Cementation:



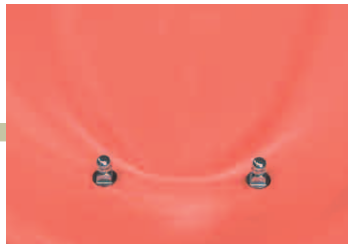
Prosthetic Manual

Ball Type Fixture

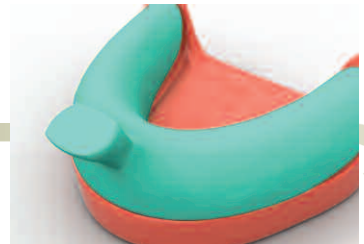
Chairside



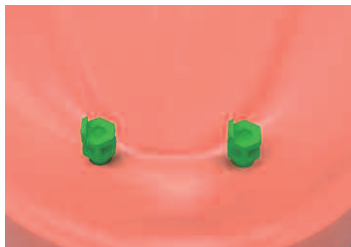
SlimLine mini ball type fixture.



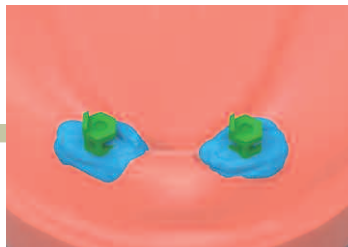
Fixture installation.



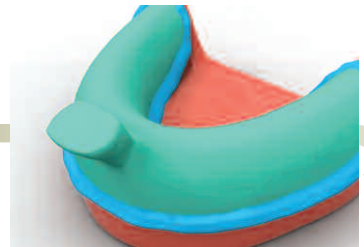
Produce the individual tray for denture impression



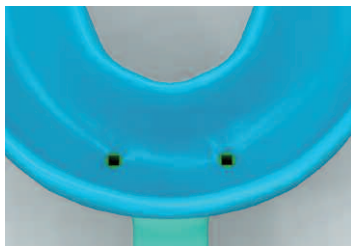
Affix the impression coping on the mini ball type fixture.



Apply the impression material.



Take the final impression with the prepared individual tray.



Remove the tray from the patient's mouth.

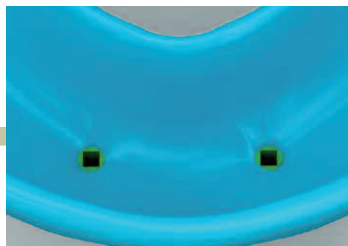


Image of the set final impression (with impression coping).



Ball analog

Lab Side



Insert analogs into the coping embedded in impression.



Create the master model.

Prosthetic Manual - Indirect

Indirect

Lab Side



Socket spacer.



Fabrication of the denture with conventional method.



Secure spaces for the female sockets.



Assemble the female sockets onto the ball analogs that are embedded in the master model.



Apply the resin to the secured area.



Position the denture on the master model and wait for it to set completely.



Female sockets are placed in the denture.



Polish the denture.



Denture delivery.

Chairside

Prosthetic Manual - Direct

Direct

Lab Side



Socket spacer.



Fabrication of the denture with conventional method.



Secure spaces for the female sockets.

Chairside



Connect the female sockets to the Mini Ball Abutments in the intraoral.



Apply the resin to the secured area.



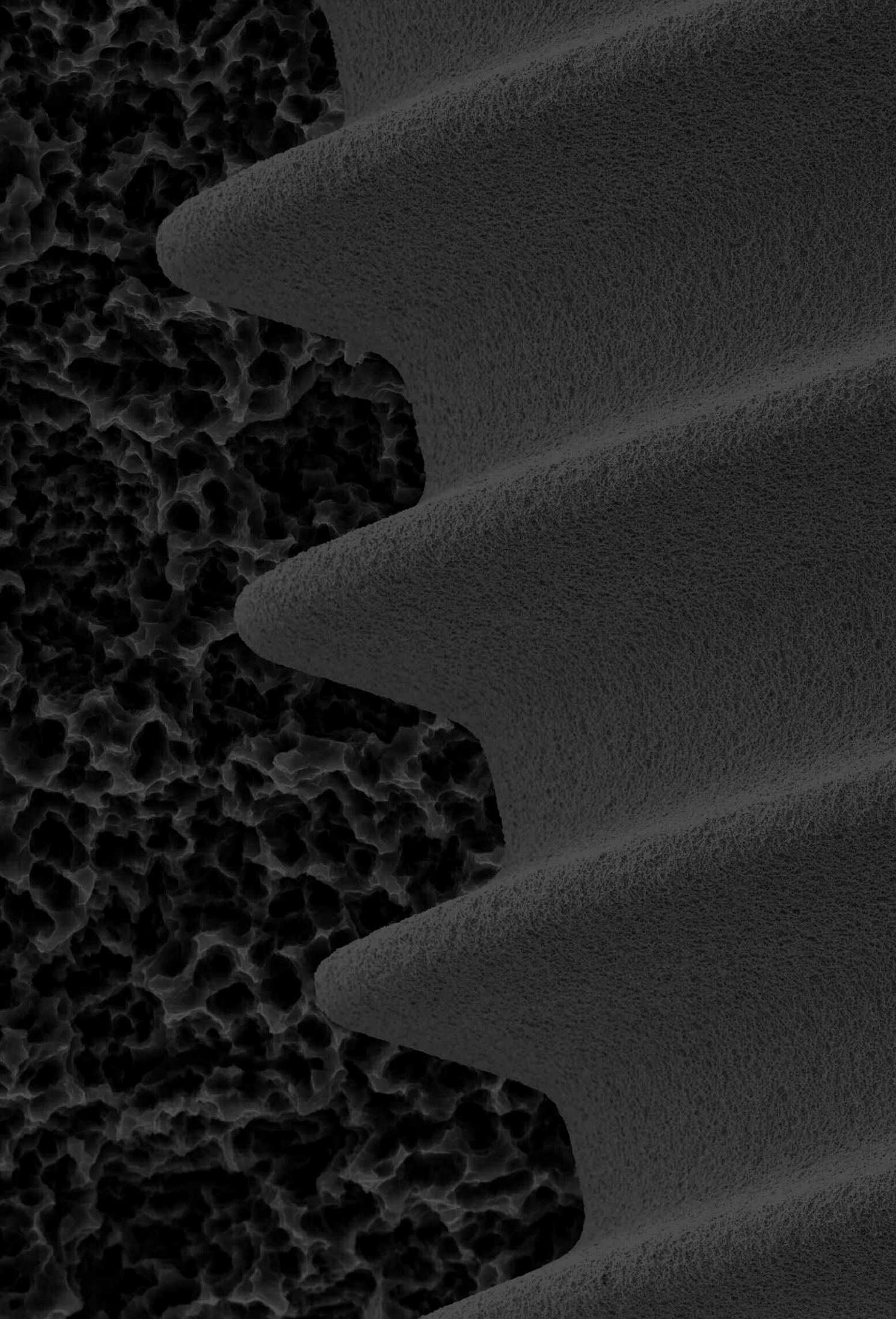
Position the denture on the master model and wait for it to set completely.



Female sockets are placed in the denture.



Polish the denture.



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Product Catalog / Manual

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Specifications are subject to change without prior notice.
Some products that are to be launched in the market after necessary approvals are also listed in this catalog.

HEAD OFFICE

3105 Trade Tower, 513 Yeongdong-daero, Gangnam-gu, Seoul, Korea 135-731 **T** +82-2-501-8560 **F** +82-2-567-9578

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