



**SlimLine**  
**Product Catalog / Manual**

**Dentium**  
For Dentists By Dentists

**Dentium**  
For Dentists By Dentists

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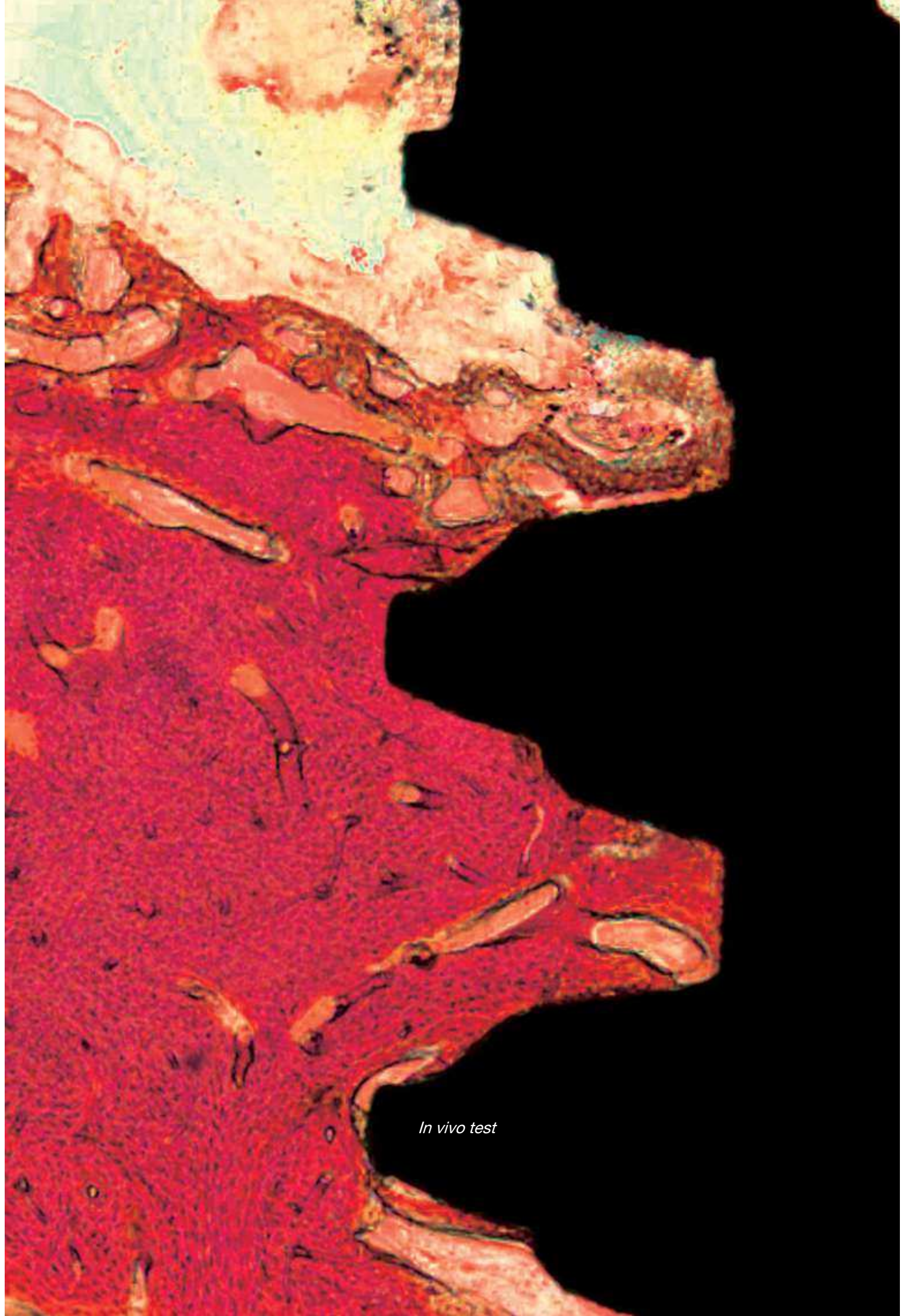
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*In vivo test*

# 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.

## Human osteoblast

- Well attached and proliferated human osteoblasts.



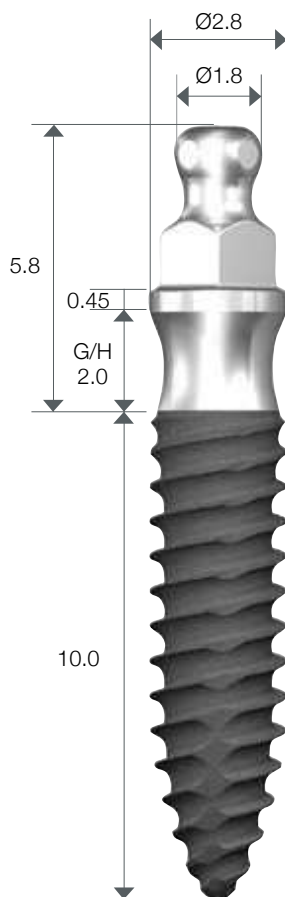
# SlimLine Characteristics

Unit: mm

## One Body Design

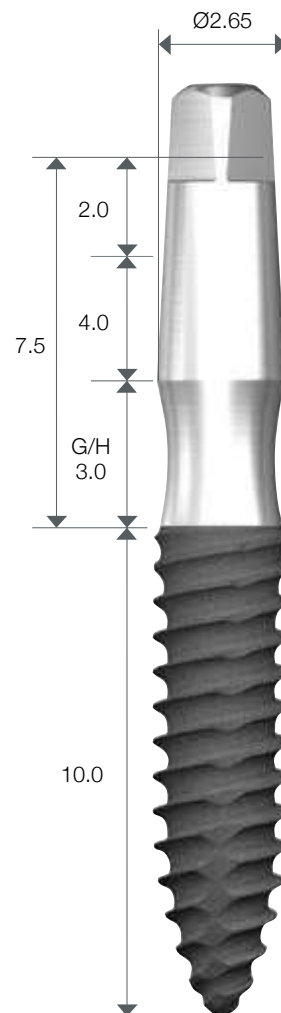
- S.L.A. surface enables immediate or early loading
- Mini ball (Ø1.8) & metal socket make denture production easy
- Wide range of choice for prosthetic options

**Mini Ball Type**



IBS282010

**Fix Type**

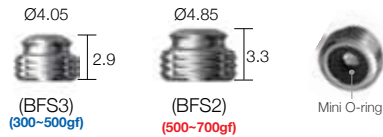


IUS283010

# SlimLine Characteristics

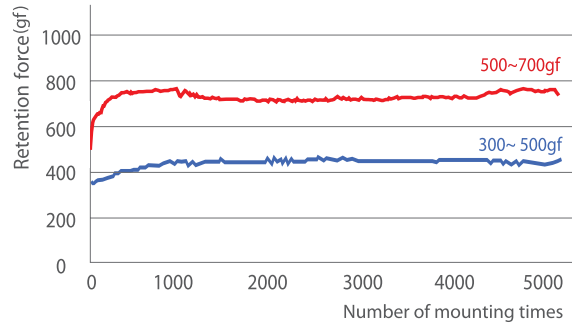
Unit: mm

## Denture System

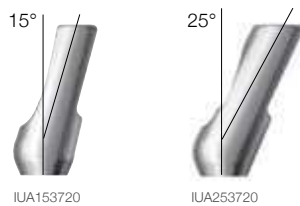


- Mini ball size ( $\varnothing 1.8$ )
- Mini o-ring type denture socket
- Minimal-size denture socket
- Mini o-ring are replaceable

## Mini O-Ring Retention Force



## Angled Abutment

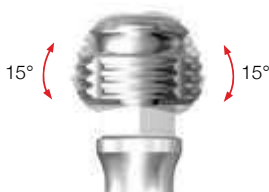


- Slanted implanting is possible with the combination of angled abutment (15°, 25°).
- Cement the final restoration onto the abutment.



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

## Tilting Angle



Up to  $\pm 15$  degrees of tilting angles to accommodate the pathway of the implant.

## Double-threaded Design

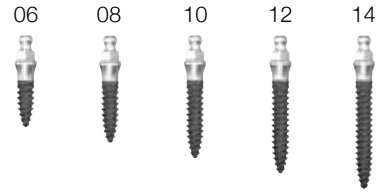
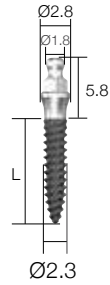
- Increased thread height helps strengthen the initial stability.
- Double threading helps decrease the chair time of implantation.

# Mini Ball Type Fixture

Unit: mm, Scale 1 : 1 / mm

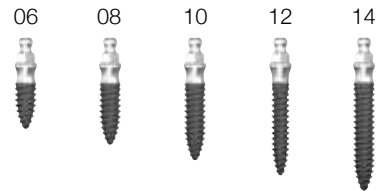
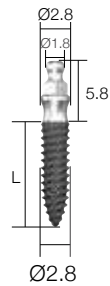
## Body Ø2.3

L	Art. No.
06	IBS 23 20 <b>06</b>
08	IBS 23 20 <b>08</b>
10	IBS 23 20 <b>10</b>
12	IBS 23 20 <b>12</b>
14	IBS 23 20 <b>14</b>



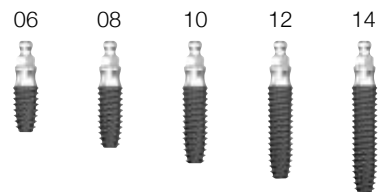
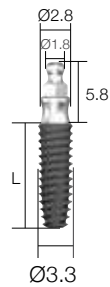
## Body Ø2.8

L	Art. No.
06	IBS 28 20 <b>06</b>
08	IBS 28 20 <b>08</b>
10	IBS 28 20 <b>10</b>
12	IBS 28 20 <b>12</b>
14	IBS 28 20 <b>14</b>



## Body Ø3.3

L	Art. No.
06	IBS 33 20 <b>06</b>
08	IBS 33 20 <b>08</b>
10	IBS 33 20 <b>10</b>
12	IBS 33 20 <b>12</b>
14	IBS 33 20 <b>14</b>



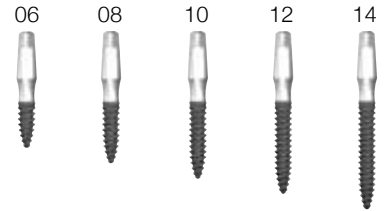
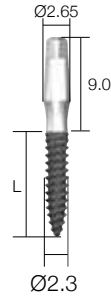


# Fix Type Fixture

Unit: mm, Scale 1 : 1 / mm

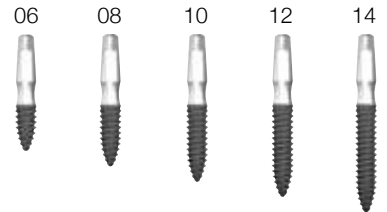
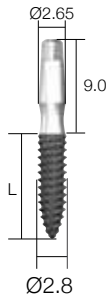
## Body Ø2.3

L	Art. No.
06	IUS 23 30 <b>06</b>
08	IUS 23 30 <b>08</b>
10	IUS 23 30 <b>10</b>
12	IUS 23 30 <b>12</b>
14	IUS 23 30 <b>14</b>



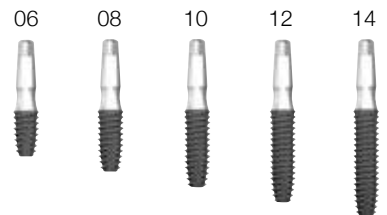
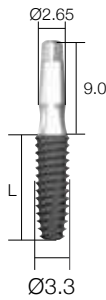
## Body Ø2.8

L	Art. No.
06	IUS 28 30 <b>06</b>
08	IUS 28 30 <b>08</b>
10	IUS 28 30 <b>10</b>
12	IUS 28 30 <b>12</b>
14	IUS 28 30 <b>14</b>



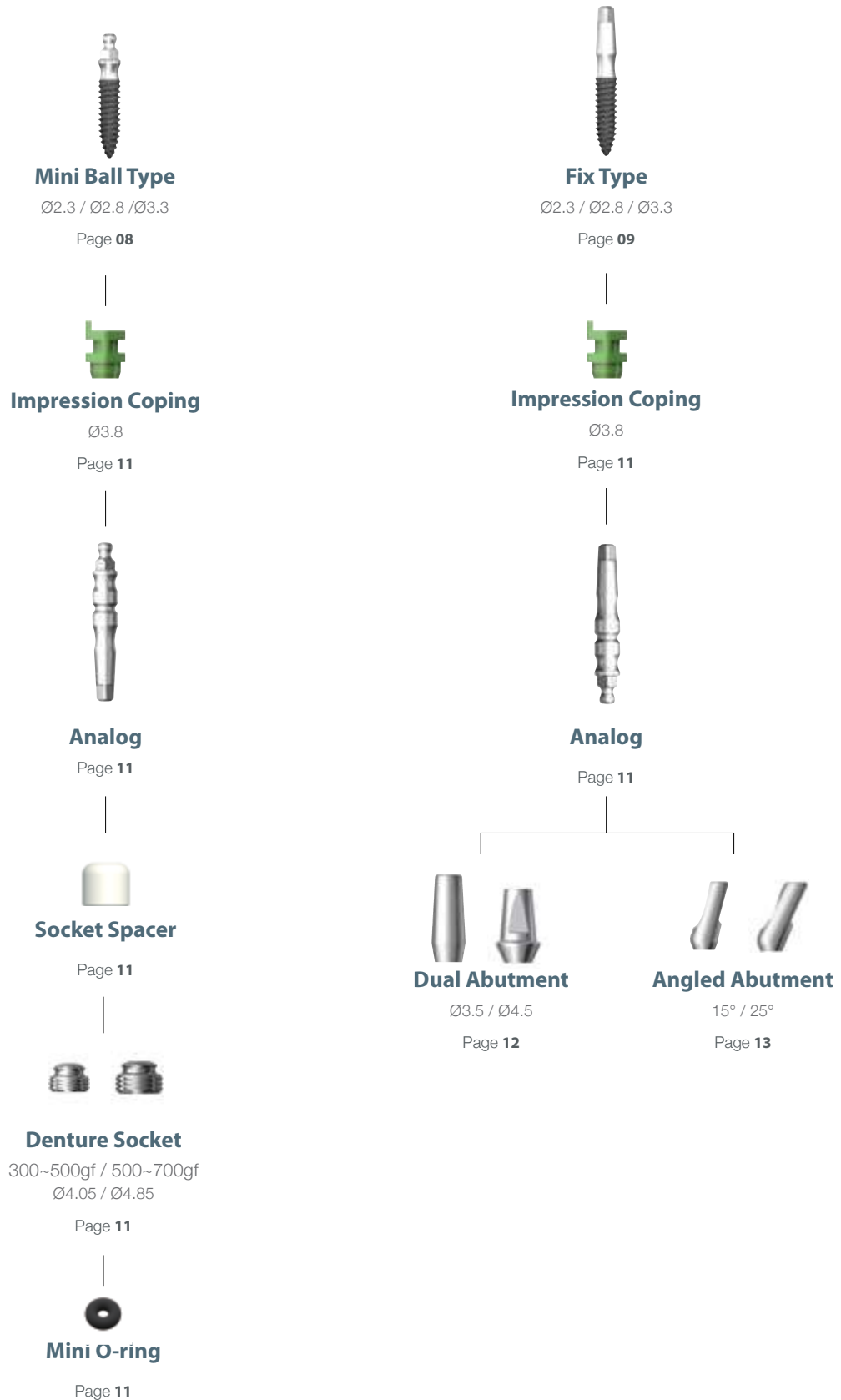
## Body Ø3.3

L	Art. No.
06	IUS 33 30 <b>06</b>
08	IUS 33 30 <b>08</b>
10	IUS 33 30 <b>10</b>
12	IUS 33 30 <b>12</b>
14	IUS 33 30 <b>14</b>



# Prosthetic Procedure

## Impression Technique and Restoration Selection



# Denture Components

Unit: mm, Scale 1 : 1.5 / mm

## Comfort Cap

Art. No.	ICC
----------	-----

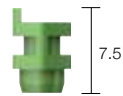
Ø2.9



## Impression Coping

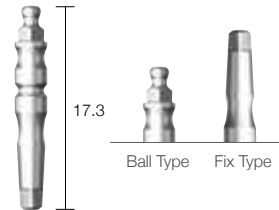
Art. No.	ICA
----------	-----

Ø3.8



## Analog

Art. No.	IANF2015
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## Socket Spacer

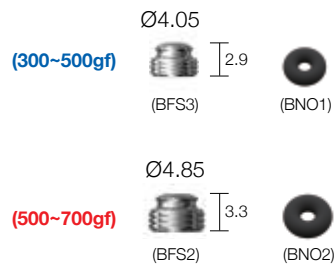
Art. No.	BIC3L
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## Female Socket

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

Denture Socket + O-ring



# Dual Abutment [Fix Type]

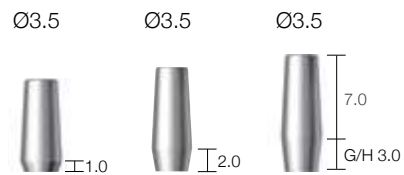
Unit: mm, Scale 1 : 1.5 / mm



IUDA3520 and IUS283010

## Diameter Ø3.5

G/H	H	Art. No.
<b>1.0</b>	7.0	IUDA 35 <b>10</b>
<b>2.0</b>	7.0	IUDA 35 <b>20</b>
<b>3.0</b>	7.0	IUDA 35 <b>30</b>



## Diameter Ø4.5

G/H	H	Art. No.
<b>1.0</b>	5.5	IUDA 45 <b>10</b>
<b>2.0</b>	5.5	IUDA 45 <b>20</b>
<b>3.0</b>	5.5	IUDA 45 <b>30</b>



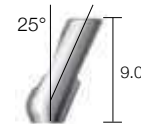
# Angled Abutment [Fix Type]

Unit: mm, Scale 1 : 1.5 / mm



IUA153720 and IUS283010

Angled	Art. No.
<b>15°</b>	IUA <b>15</b> 37 20
<b>25°</b>	IUA <b>25</b> 37 20



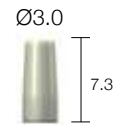
# Abutment Level Impression Components

Fix Type Fixture

Unit:mm, Scale 1: 1.5 / mm

## Comfort Cap

Art. No.	FCC
----------	-----



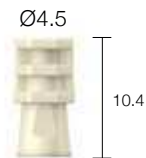
## Comfort Cap

Art. No.	CCC45C
----------	--------



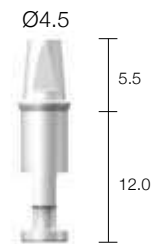
## Impression Coping

Art. No.	CIC45L
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## Lab Analog

Art. No.	CAN45LL
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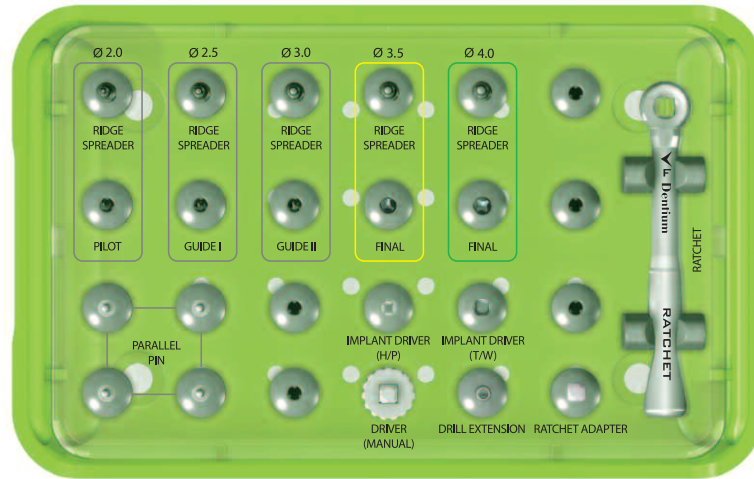


## Burn-out Cylinder

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	• Parallel pin X 4		XPP131822
		XFD3835			
• Ridge spreader		RS201036R	• Ratchet adapter		XRA3917
		RS251036R	• Drill extension		XDE
		RS301036R	• Ratchet		XRCA1
		RS351036R			
		RS401036R			

# Drill

Unit: mm, Scale 1 : 1 / mm

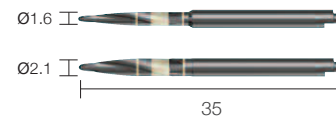
## Pilot Drill

Diameter	L	Art. No.
Ø1.1	35	XFD1135



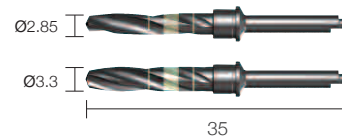
## Guide Drill

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



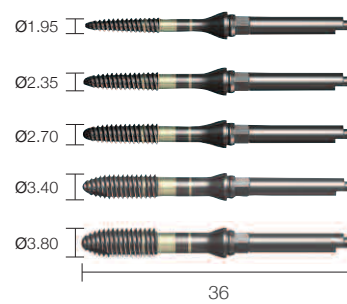
## Final Drill

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



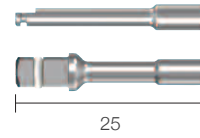


# Instrument

Unit: mm, Scale 1 : 1 / mm

## Implant Driver

Type	Art. No.
Hand-piece	IPST25H
Ratchet	IPST25W



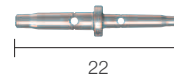
## Driver

Type	Art. No.
Manual	XHDHT



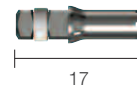
## Parallel Pin

XPP131822
-----------



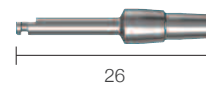
## Ratchet Adapter

XRA3917
---------



## Drill Extension

XDE
-----



## Ratchet

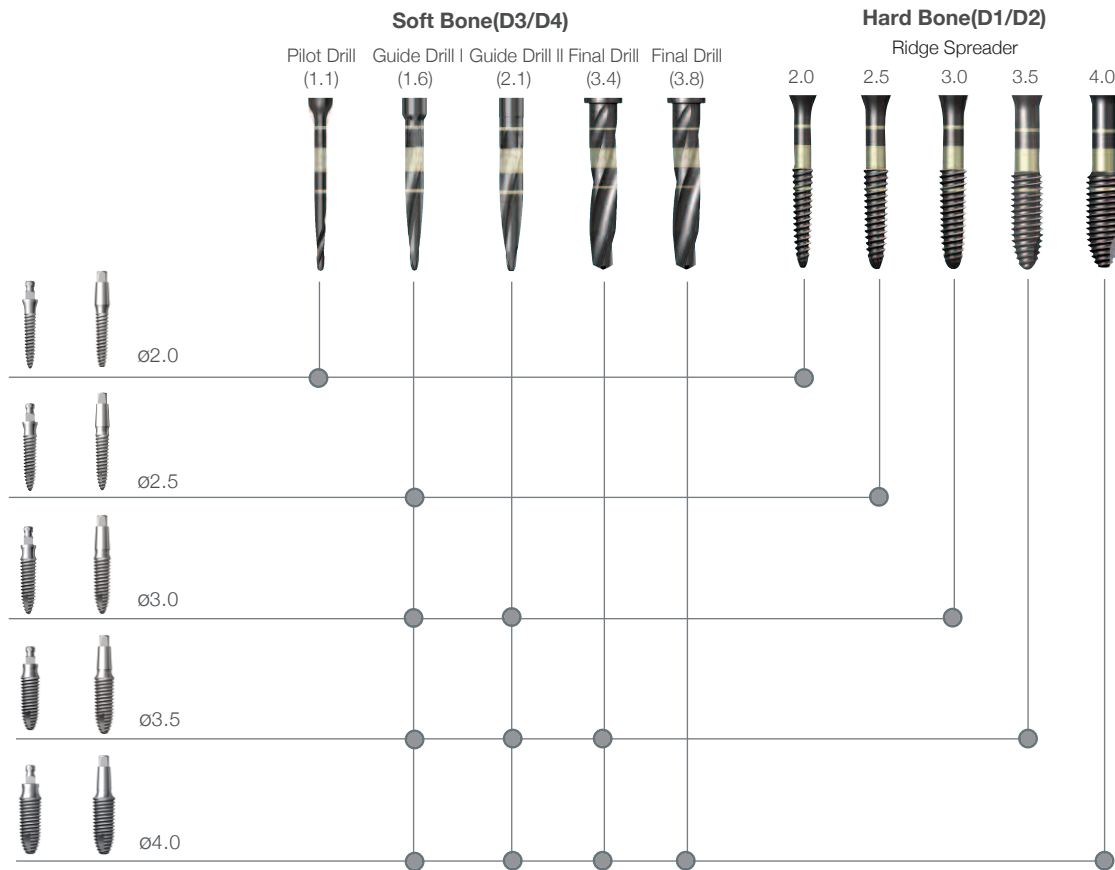
XRCA1
-------



# Surgical Drill Sequence

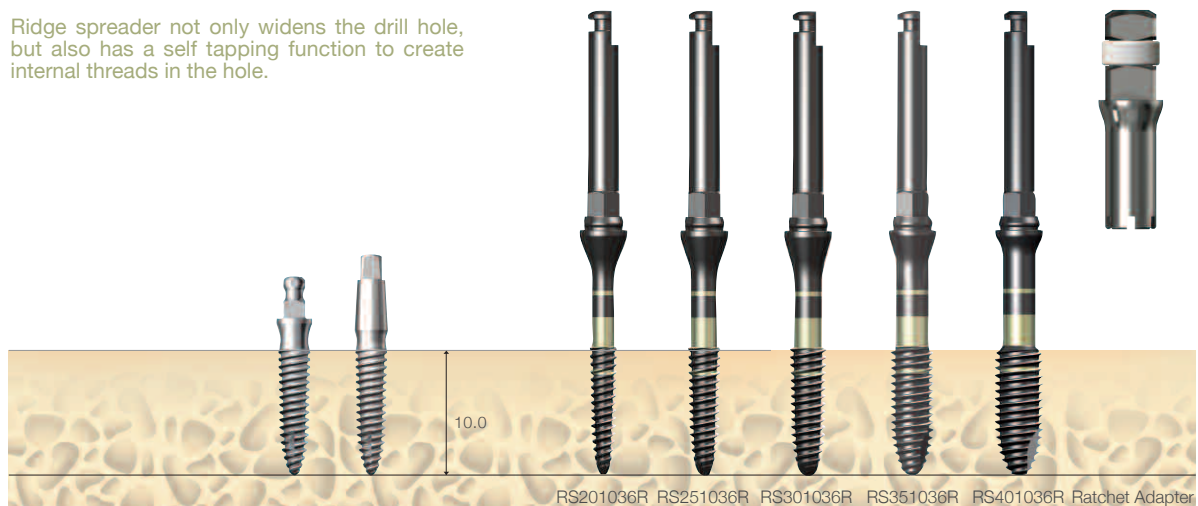
## Drilling Sequence Guide

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



## Ridge Spreader Hard Bone (D1/D2)

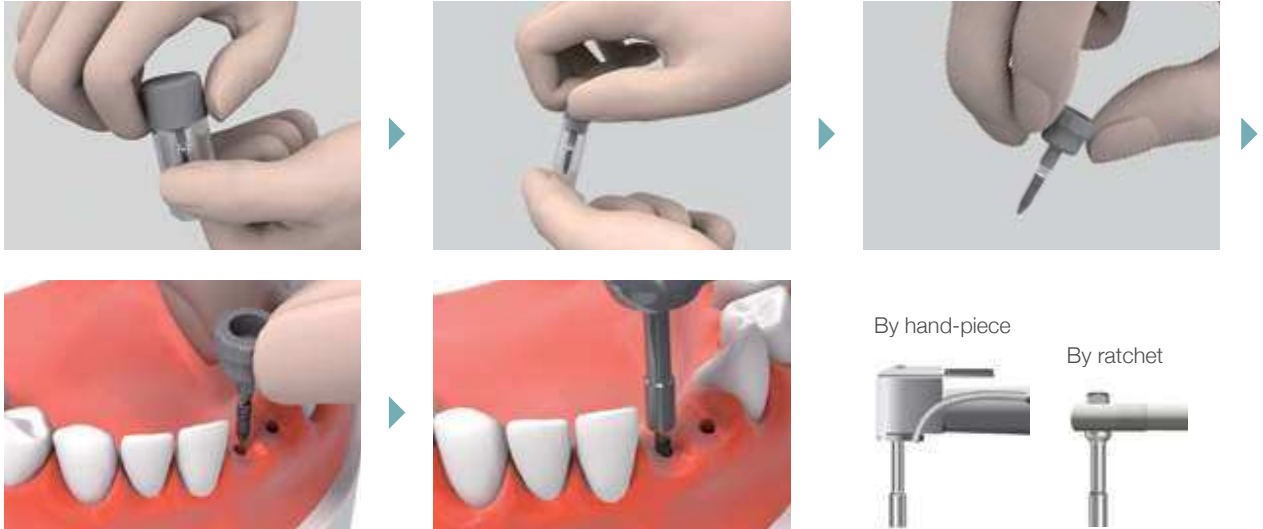
Ridge spreader not only widens the drill hole, but also has a self tapping function to create internal threads in the hole.



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.

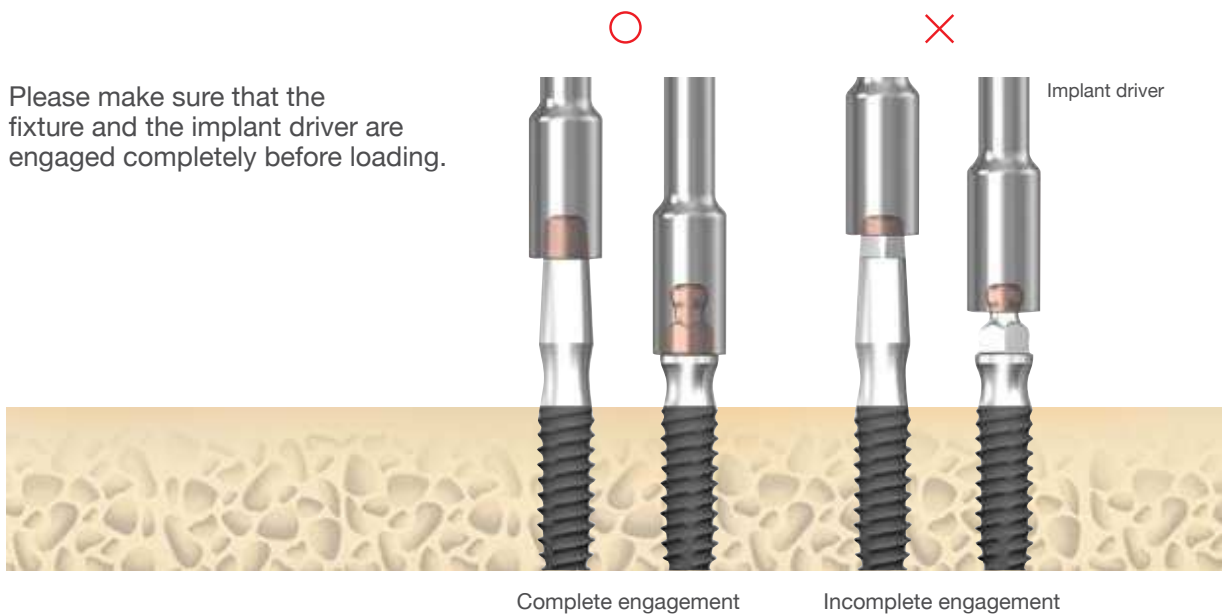
# Surgical Process

## 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.



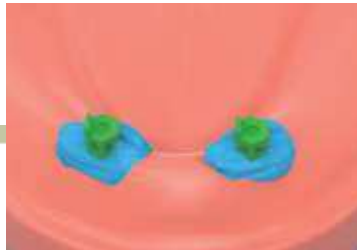
Fixture installation.



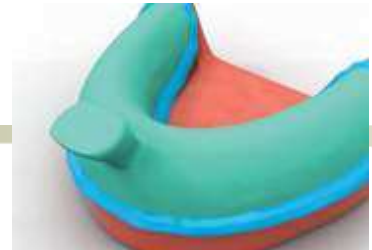
Produce the individual tray for denture impression



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.

### Chairside



Denture delivery.

# 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 in the intraoral and wait for it to set completely.



Female sockets are placed in the denture.



Polish the denture.

# DENTIUM LONG-TERM CLINICAL DATA

2002

2003

2004

2005

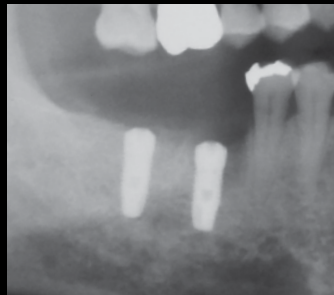
2006

2007

2008



2002. 05. 17  
Pre-op



2002. 09. 04  
Post-op



2003. 03. 15  
Final prosthesis



# Dentium

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2009

2010

2011

2012

2013

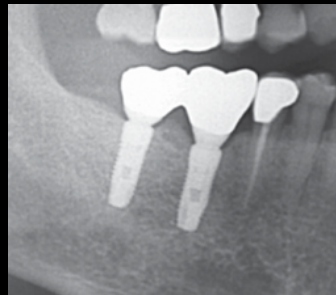
2014

2015

11 YEARS →



2008. 04. 14  
5 years



2013. 12. 05  
11 years

over  
**10** years  
of Long  
term  
data

OVER A **DECADE** OF  
COMMITMENT TO  
THE **BEST PRODUCTS**  
FOR DENTISTS AND  
PATIENTS

**Dentium**  
For Dentists By Dentists

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For Dentists By Dentists

# SlimLine

## Product Catalog / Manual

**Dentium**  
For Dentists By Dentists

Specifications are subject to change without notice.  
Some products listed in this catalog are not available in the market due to pending approval.

**HEAD OFFICE**

504 Gyeonggi R&DB Center, 105 Gwanggyo-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea [443-270]

**T** +82-31-888-5431 **F** +82-31-888-5430

**E-mail** biz\_mail@dentium.com / www.dentium.com

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