CE 0120

GMP

Cleanlant I-FIX System

I-FIX System

DENTIS

DENTAL IMPLANT SOLUTION

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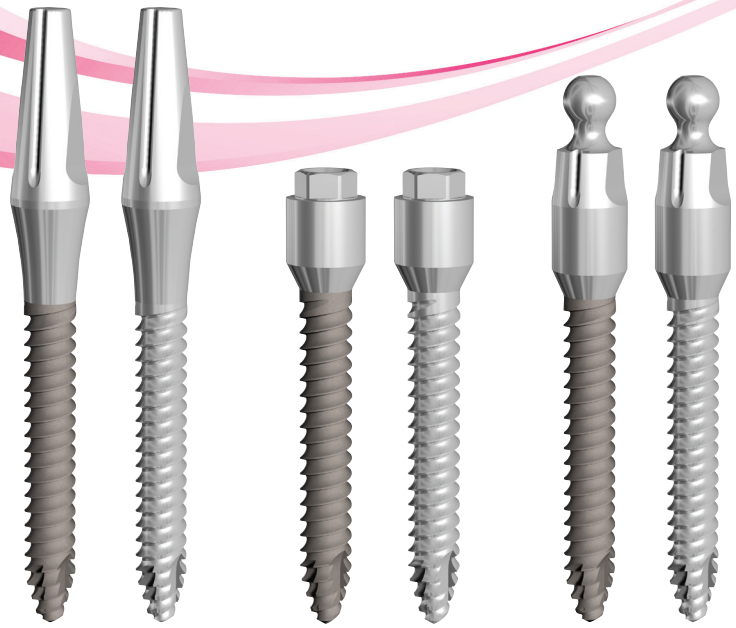

I-FIX

A Multi-Center Retrospective Study of DENTIS Implant System

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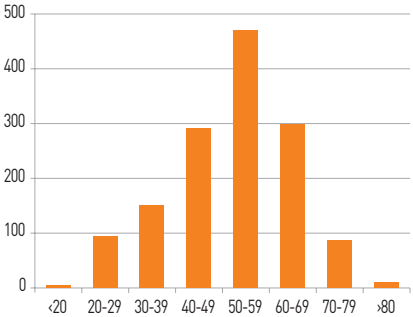
Sang-Chul Ko, DDS

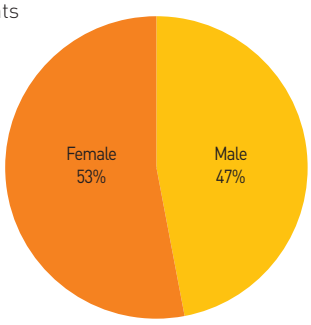
Background: The design of DENTIS implant system, marketed since 2005 in Korea and abroad in 15 countries, is designed with the following characteristics: RBM surface treatments for time-proven osseo-integration; tapered body with optimized thread designs for easy initial fixation at the time of placement surgery; 3 different abutment connection types for the same body design, allowing easier transition for the operator from existing systems in his/her armamentarium; and simplified prosthetic components. The purpose of this retrospective study was to evaluate clinical success rates for a new dental implant system called DENTIS in various private practice clinical settings.

Methods: 707 consecutive patients at 3 different clinical locations were treated with 1429 DENTIS implants. All 3 different abutment connection types of DENTIS Implant System (external hex connection type, octagonal conical-taper internal supra-gingival connection type, and submerged/bone level hex conical-taper internal connection type) were utilized in this study based on operator decision for each case. Implants were placed at various locations throughout the maxilla and mandible according to the treatment plan, including delayed and immediate placements after extractions. Various bone grafting procedures were done, including sinus augmentations, when clinically necessary. Patients were recalled and clinically examined at regular intervals along with radiographs to monitor clinical progression and prosthetic serviceability and stability.

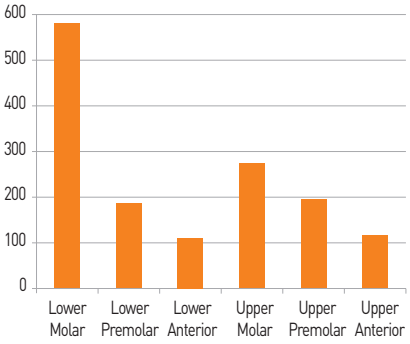
● Age Distribution



● Recipients

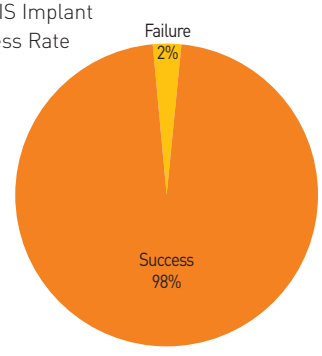


● Anatomic Locations

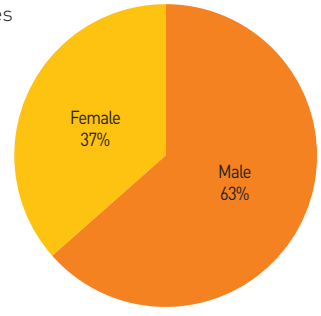


Results: Average time since implant placements were 26 months. Average time since delivery of prosthesis was 21 months. 27 implants out of 1429 implants had to be removed before delivery of definitive restorations for various clinical failure criteria, resulting in a failure rate of 1.9%. Cumulative survival rate was 98.1%. Average age of the patient population was 52 years old at the time of implant placement surgery, while youngest patient was 16 years old and oldest patient was 87 years old. 52.7% of the patient population was female, while 47.3% was male. While maxillary molar region had the highest risk of failures anatomically, diabetes and smoking were the highest medical condition risk factors. Prosthetic complication factors such as screw loosening, cemented crowns coming-off, and porcelain fractures affected 36 implants, resulting in 4.8% prosthetic complication rate for the 26 months of this study.

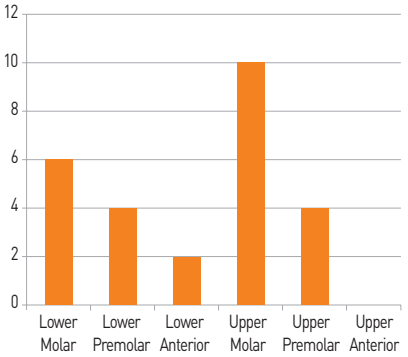
● DENTIS Implant Success Rate



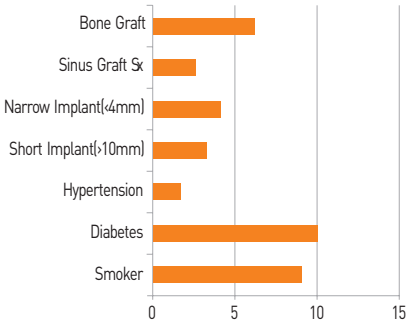
● Failures



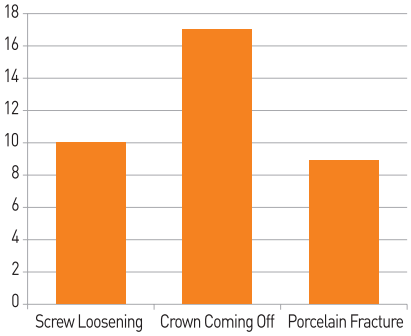
● Failure Anatomic Sites



● Failure Details / Factors



● Prosthetic Complications

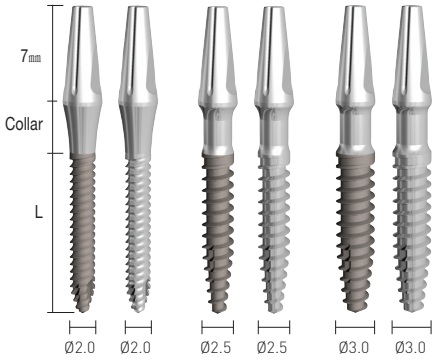


Conclusion: A new dental implant system called DENTIS is found to be performing well in various clinical practice settings in this retrospective multi-center study. Cumulative success rate of 98.1% for the DENTIS Implant System, as demonstrated in this study, compares favorably to most of the leading implant systems in the market now. Same patient population will continue be followed up in coming years for further evaluation of DENTIS implants.

Fixture System **Selection**

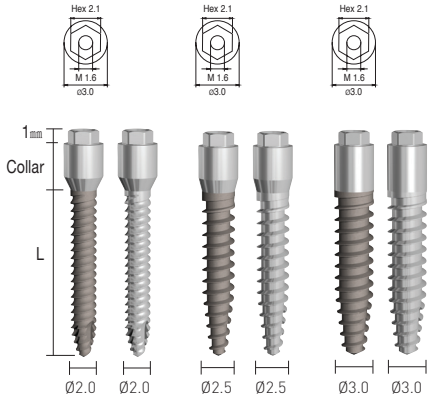
Post Type

Collar : 2㎜, 4㎜
Length : 10㎜, 13㎜, 16㎜



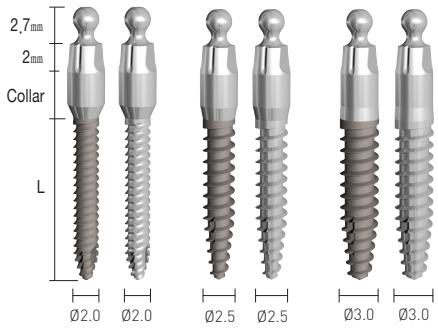
Angled Type

Collar : 1.4㎜, 3.4㎜
Length : 10㎜, 13㎜, 16㎜



O-Ring Type

Collar : 1.5㎜, 3.5㎜
Length : 10㎜, 13㎜, 16㎜

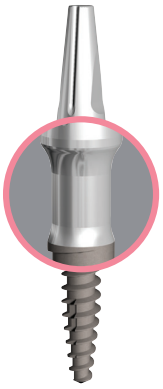


Features of I-FIX

1. Three Types of Fixture

Post Type

- Suitable for narrow space in the maxillary and mandibular anterior teeth
- One-body type design provides maximum strength for mastication

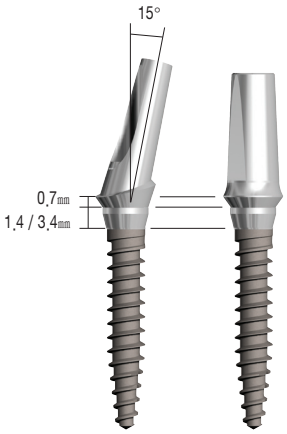


Post type Neck design

- Neck design helps to make fast healing time

Angle Type

- Specialized 2 pieces-design reinforce safe fixation
- Abutments are divided into Cemented and Angled for various cases and placement direction

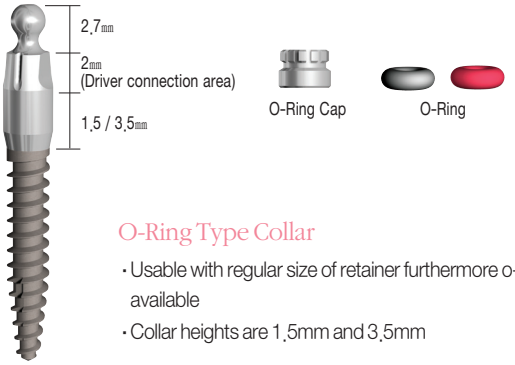


Angle Type - Collar+Cuff

- Total gingival height is collar (1.4mm or 3.4mm) + cuff height(0.7)

O-Ring Type

- Suitable for the edentulous patients
- Creating fast and simple temporary prosthesis



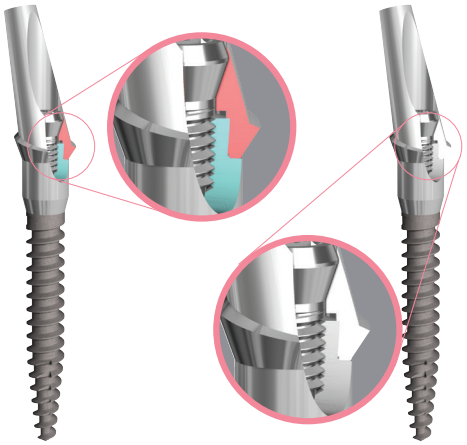
O-Ring Type Collar

- Usable with regular size of retainer furthermore o-ring cap is available
- Collar heights are 1.5mm and 3.5mm

	Post Type	O-Ring Type	Angle Type	Angle Type	Cemented Abutment	Angle Abutment
Collar	2㎜ 4㎜	1.5㎜ 3.5㎜	1.4㎜ 3.4㎜	→ Cuff	0.7㎜	0.7㎜

2. 2pieces-type with Maximum Strength

- 1.2 Hex Driver -



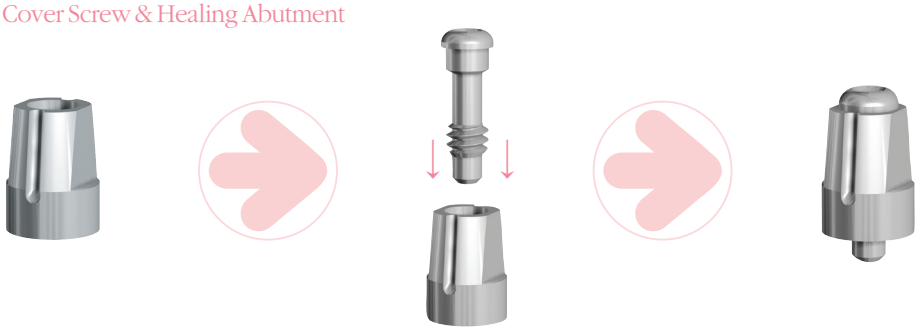
1. The fixation is strong and safe between screw and fixture with over 4 and half pitch screw connection

2. Morse taper connection between the implant and the abutment offers the friction locking and sealing.

3. Torque recommendation : 30-35Ncm

3. Another Function of Angled Type Mount

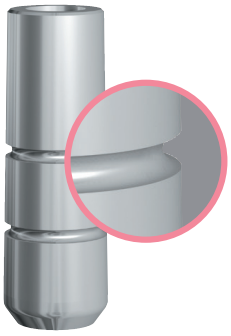
- Cover Screw & Healing Abutment



- 0.9 Hex Driver -

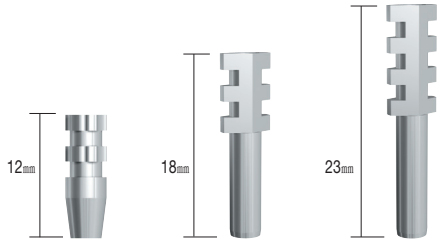
· Mount is used as healing abutment and cover screw after placement

4. Angle Type - Free Abutment



· Free, easy milling and prosthesis work as the application of DENTIS regular free abutment
Groove in the abutment body - Strong fixation with cement.

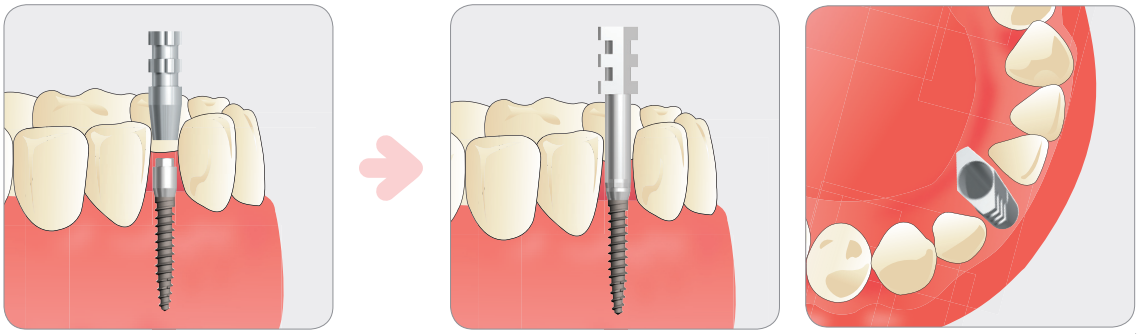
5. For use where Narrow Interproximal Space



Height	Impression Coping		
	12㎜	18㎜	23㎜

Three types of impression coping available in various pick-up impression cases

18mm and 23mm impression copings provide convenient impression-taking in narrow interproximal space.

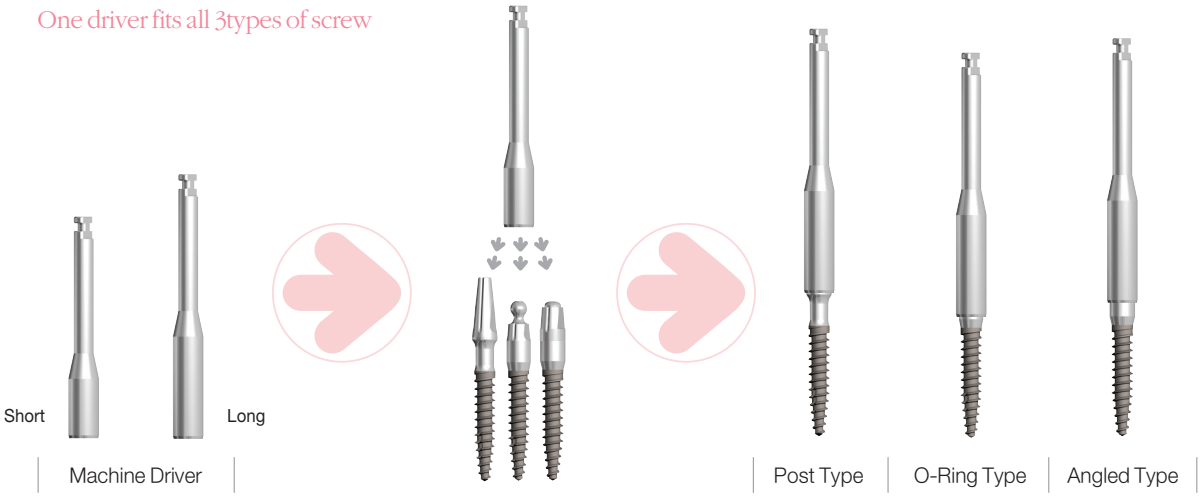


In the case of interference from neighboring teeth

Height18mm, 23mm Impression Coping

6. Easy Surgical Tool

One driver fits all 3types of screw

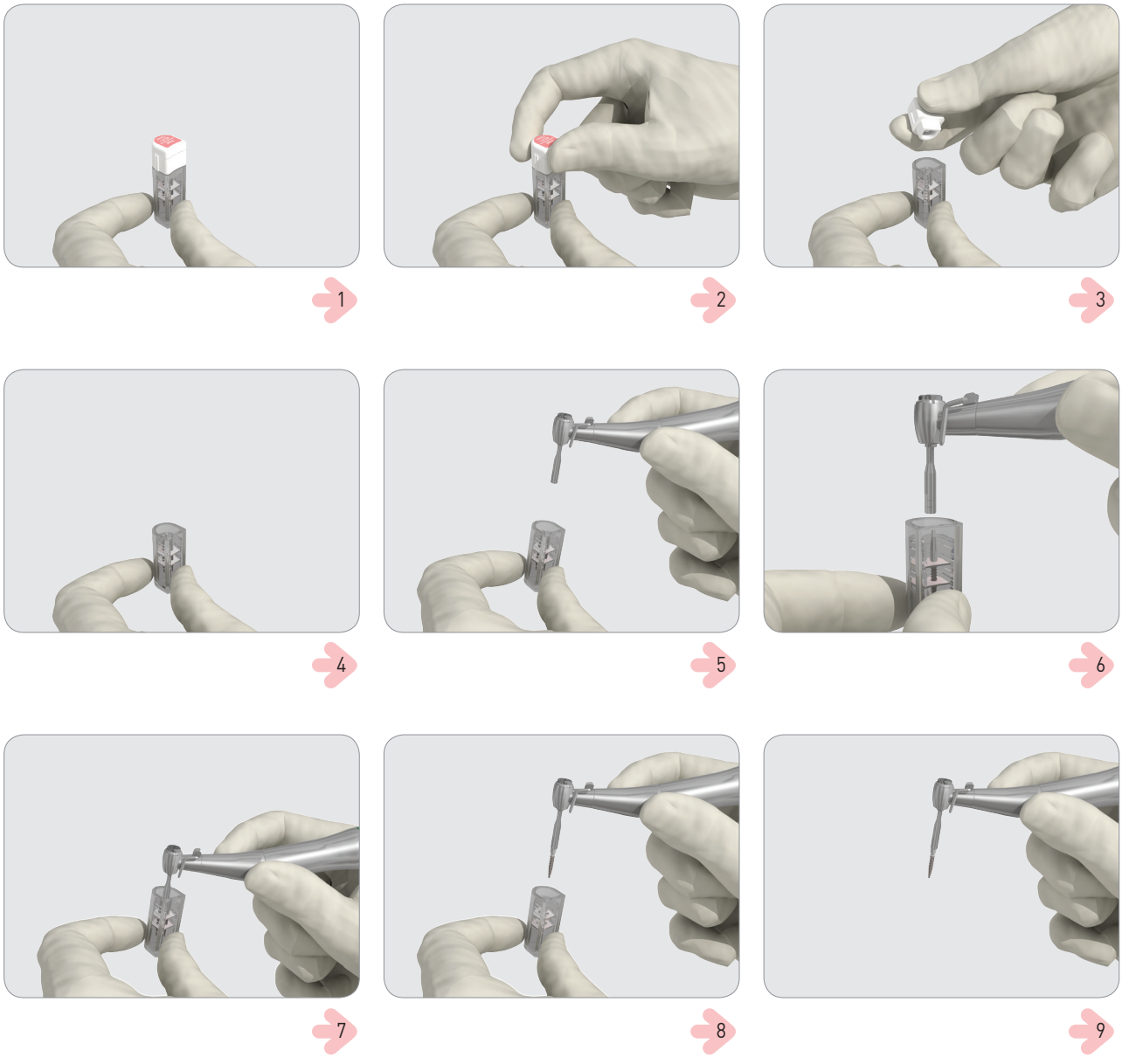


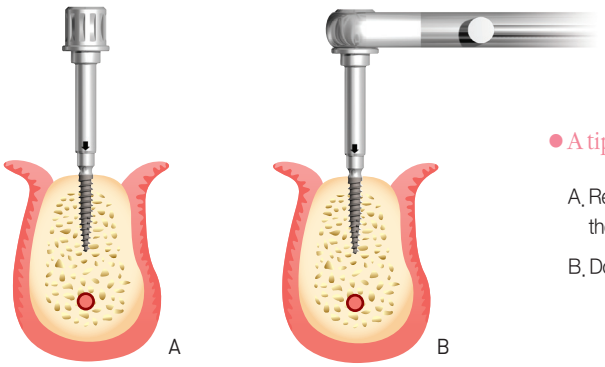
Machine Driver

Post Type | O-Ring Type | Angled Type

Opening Sequence of **Ampule**

Post Type, O-Ring Type, Angle Type are the same way to open sequence of ampule.





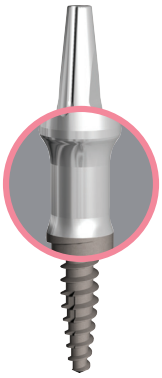
● A tip for the installed implant fixture.

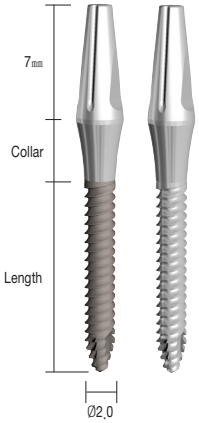
A. Remove the implant driver and fixture with a slight off-axis motion to disengage the connection before pulling away.

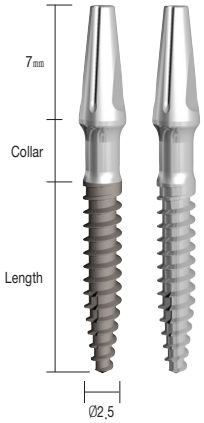
B. Do not set the drill torque to maximum torque of 80Ncm.

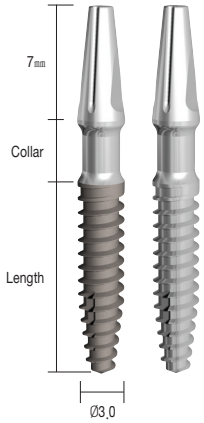
I-FIX Post Type Fixture

- Suitable for narrow space in the maxillary and mandibular anterior teeth
- One-body type design provides maximum strength for mastication
- Neck design helps to make fast healing time









Implant Diameter	Collar	Length	Code RBM	Code Machined
Ø2.0	2.0㎜	10.0㎜	DMPF2010S	DMPF2010SN
	2.0㎜	13.0㎜	DMPF2013S	DMPF2013SN
	2.0㎜	16.0㎜	DMPF2016S	DMPF2016SN
	4.0㎜	10.0㎜	DMPF2010L	DMPF2010LN
	4.0㎜	13.0㎜	DMPF2013L	DMPF2013LN
	4.0㎜	16.0㎜	DMPF2016L	DMPF2016LN

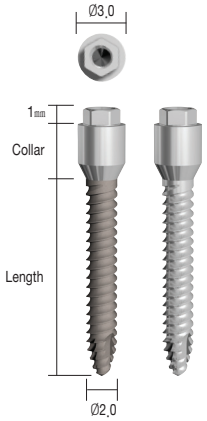
Implant Diameter	Collar	Length	Code RBM	Code Machined
Ø2.5	2.0㎜	10.0㎜	DMPF2510S	DMPF2510SN
	2.0㎜	13.0㎜	DMPF2513S	DMPF2513SN
	2.0㎜	16.0㎜	DMPF2516S	DMPF2516SN
	4.0㎜	10.0㎜	DMPF2510L	DMPF2510LN
	4.0㎜	13.0㎜	DMPF2513L	DMPF2513LN
	4.0㎜	16.0㎜	DMPF2516L	DMPF2516LN

Implant Diameter	Collar	Length	Code RBM	Code Machined
Ø3.0	2.0㎜	10.0㎜	DMPF3010S	DMPF3010SN
	2.0㎜	13.0㎜	DMPF3013S	DMPF3013SN
	2.0㎜	16.0㎜	DMPF3016S	DMPF3016SN
	4.0㎜	10.0㎜	DMPF3010L	DMPF3010LN
	4.0㎜	13.0㎜	DMPF3013L	DMPF3013LN
	4.0㎜	16.0㎜	DMPF3016L	DMPF3016LN

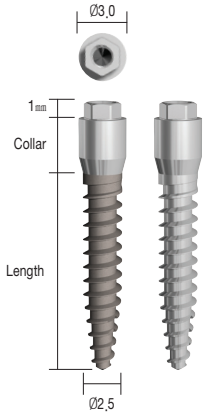
Lab Analog	Code No.
	DMPL

I-FIX Angled Type Fixture

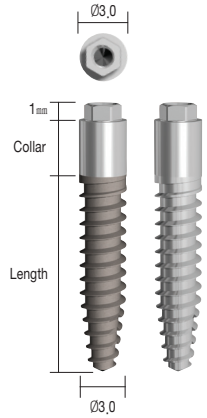
- Specialized 2 pieces-design reinforce safe fixation
- Abutments are divided into Cemented and Angled for various cases and placement direction
- Three types of impression coping available in various pick-up impression cases



Implant Diameter	Collar	Length	Code RBM	Code Machined
Ø2.0	1.4㎜	10.0㎜	DMAF2010SM	DMAF2010SNM
	1.4㎜	13.0㎜	DMAF2013SM	DMAF2013SNM
	1.4㎜	16.0㎜	DMAF2016SM	DMAF2016SNM
	3.4㎜	10.0㎜	DMAF2010LM	DMAF2010LNM
	3.4㎜	13.0㎜	DMAF2013LM	DMAF2013LNM
	3.4㎜	16.0㎜	DMAF2016LM	DMAF2016LNM

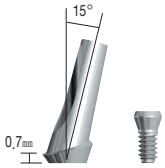


Implant Diameter	Collar	Length	Code RBM	Code Machined
Ø2.5	1.4㎜	10.0㎜	DMAF2510SM	DMAF2510SNM
	1.4㎜	13.0㎜	DMAF2513SM	DMAF2513SNM
	1.4㎜	16.0㎜	DMAF2516SM	DMAF2516SNM
	3.4㎜	10.0㎜	DMAF2510LM	DMAF2510LNM
	3.4㎜	13.0㎜	DMAF2513LM	DMAF2513LNM
	3.4㎜	16.0㎜	DMAF2516LM	DMAF2516LNM

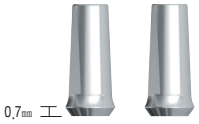


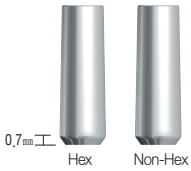
Implant Diameter	Collar	Length	Code RBM	Code Machined
Ø3.0	1.4㎜	10.0㎜	DMAF3010SM	DMAF3010SNM
	1.4㎜	13.0㎜	DMAF3013SM	DMAF3013SNM
	1.4㎜	16.0㎜	DMAF3016SM	DMAF3016SNM
	3.4㎜	10.0㎜	DMAF3010LM	DMAF3010LNM
	3.4㎜	13.0㎜	DMAF3013LM	DMAF3013LNM
	3.4㎜	16.0㎜	DMAF3016LM	DMAF3016LNM

Lab Analog	Code No.
	DMAL

Angled Abutment (15°)	Abutment Diameter	Cuff	Height	Code No.
 Double Hex	Ø4	0.7㎜	9.1㎜	DMAA15S

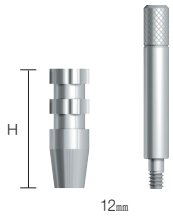
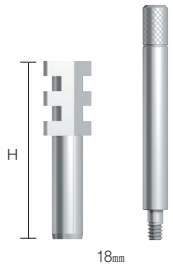
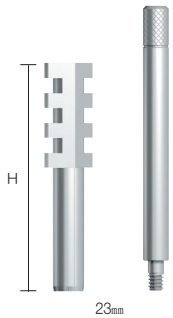
Angled Abutment Screw	Code No.
	DMAS

Cemented Abutment	Abutment Diameter	Cuff	Height	Code No.
	Ø4 Ø4	0.7㎜ 0.7㎜	8.3㎜ 8.3㎜	DMCAHS DMCANS

Free Abutment	Abutment Diameter	Cuff	Height	Code No.
	Ø4 Ø4	0.7㎜ 0.7㎜	11.3㎜ 11.3㎜	DMFAHS DMFANS

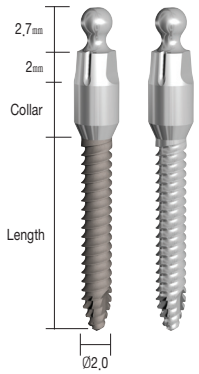
Angled Mount Adapter	Detail	Code No.
	0.9 Hex Driver	DMAMAS

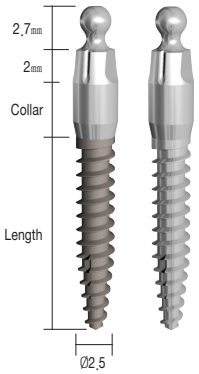
Gold UCLA	Abutment Diameter	Code No.
	Ø4 Ø4	DMGUHS DMGUNS

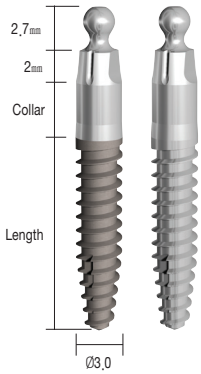
Impression coping	Type	Height(H)	Code No.
  	Pick-up	12㎜ 18㎜ 23㎜	DMIC12S DMIC18S DMIC23S

I-FIX O-Ring Type Fixture

- Suitable for the edentulous patients
- Creating fast and simple temporary prosthesis
- Usable with regular size of retainer furthermore o-ring cap is available





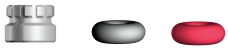


Implant Diameter	Collar	Length	Code	
			RBM	Machined
Ø2.0	1.5㎜	10.0㎜	DMOF2010S	DMOF2010SN
	1.5㎜	13.0㎜	DMOF2013S	DMOF2013SN
	1.5㎜	16.0㎜	DMOF2016S	DMOF2016SN
	3.5㎜	10.0㎜	DMOF2010L	DMOF2010LN
	3.5㎜	13.0㎜	DMOF2013L	DMOF2013LN
	3.5㎜	16.0㎜	DMOF2016L	DMOF2016LN

Implant Diameter	Collar	Length	Code	
			RBM	Machined
Ø2.5	1.5㎜	10.0㎜	DMOF2510S	DMOF2510SN
	1.5㎜	13.0㎜	DMOF2513S	DMOF2513SN
	1.5㎜	16.0㎜	DMOF2516S	DMOF2516SN
	3.5㎜	10.0㎜	DMOF2510L	DMOF2510LN
	3.5㎜	13.0㎜	DMOF2513L	DMOF2513LN
	3.5㎜	16.0㎜	DMOF2516L	DMOF2516LN

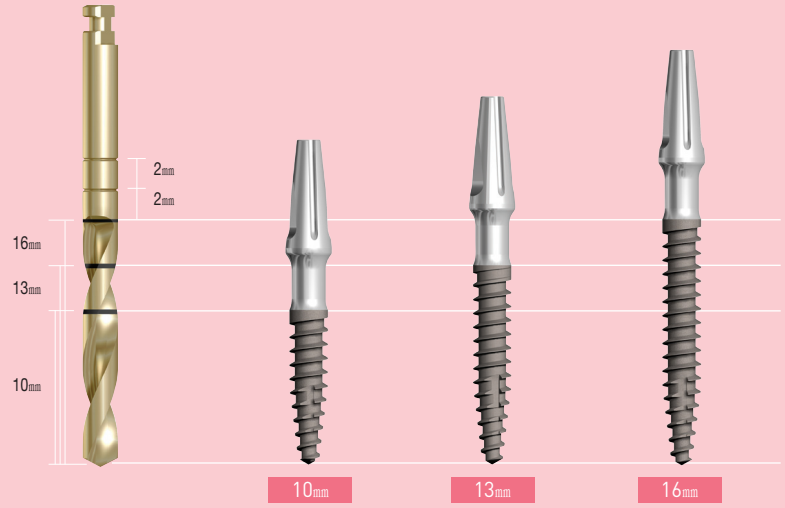
Implant Diameter	Collar	Length	Code	
			RBM	Machined
Ø3.0	1.5㎜	10.0㎜	DMOF3010S	DMOF3010SN
	1.5㎜	13.0㎜	DMOF3013S	DMOF3013SN
	1.5㎜	16.0㎜	DMOF3016S	DMOF3016SN
	3.5㎜	10.0㎜	DMOF3010L	DMOF3010LN
	3.5㎜	13.0㎜	DMOF3013L	DMOF3013LN
	3.5㎜	16.0㎜	DMOF3016L	DMOF3016LN

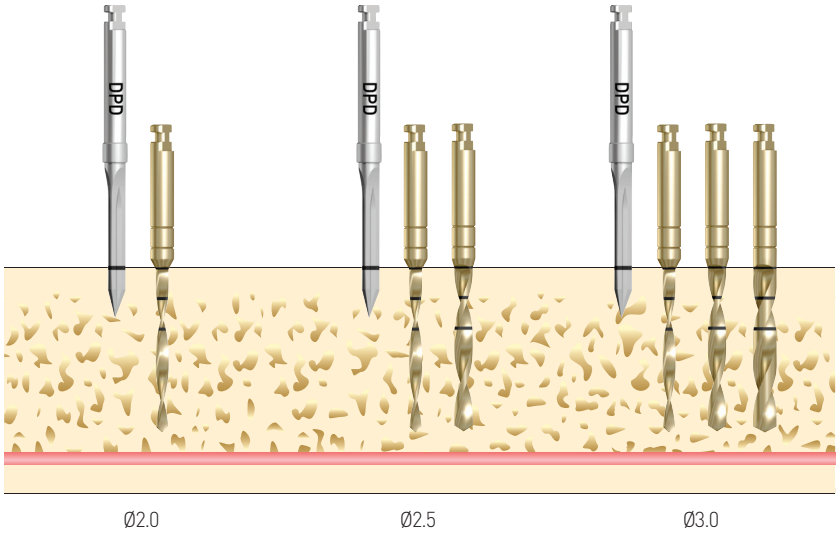
Lab Analog	Code No.
	DMOL

Cap	Code No.
	DOCS

O-ring	Code No.
	DOAO100 / DOAO400 / DOAO800

DENTIS Mini Implant **Drilling Sequence**





Ø2.0 Fixture	Point Drill → Ø1.3 Fixture Drill → Ø2.0 Fixture
Ø2.5 Fixture	Point Drill → Ø1.3 Fixture Drill → Ø1.8 Fixture Drill → Ø2.5 Fixture
Ø3.0 Fixture	Point Drill → Ø1.3 Straight Drill → Ø1.8 Straight Drill → Ø2.3 Straight Drill → Ø3.0 Fixture

DENTIS Mini Implant **I-FIX KIT**

DPD

Point Drill

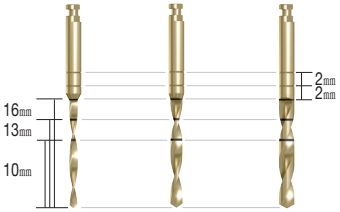
DDE

Drill Extension

0.9 Hex

DRHDL09

Hex Driver



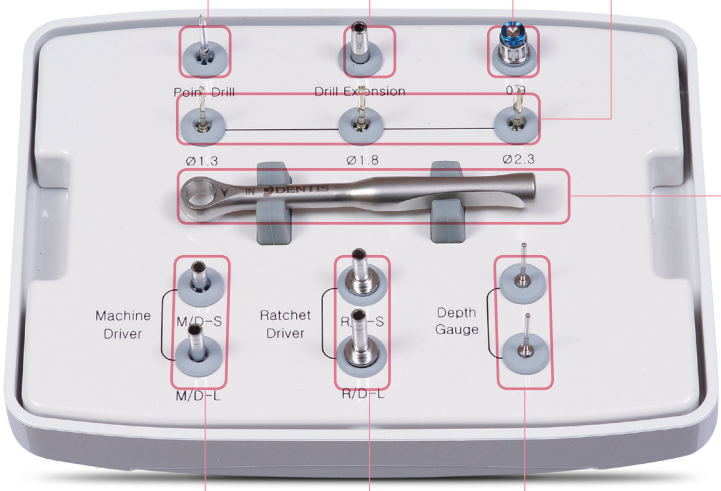
Ø1.3 Ø1.8 Ø2.3

DMD13 DMD18 DMD23

Straight Twist Drill

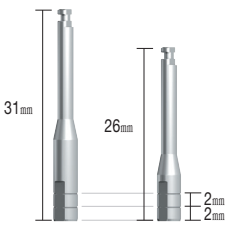
DRW

Ratchet Wrench



Code - DMK

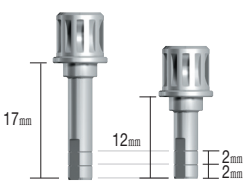
Mini Machine Driver



Long Short

DMML DMMS

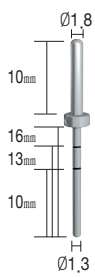
Mini Ratchet Driver



Long Short

DMRL DMRS

Depth Gauge



DMDP


CleanIant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