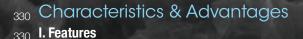




**Key Advantages** Strong solution for narrow ridge & Anterior small teeth.

Mini, but mighty.



- <sup>331</sup> Fixture / Cover Screw & Healing Abutment
- 331 I. Fixture Dimension
- 332 II. Fixture Size & Cover Screw & Healing Abutment

### 333 Abutment & Prosthetic options

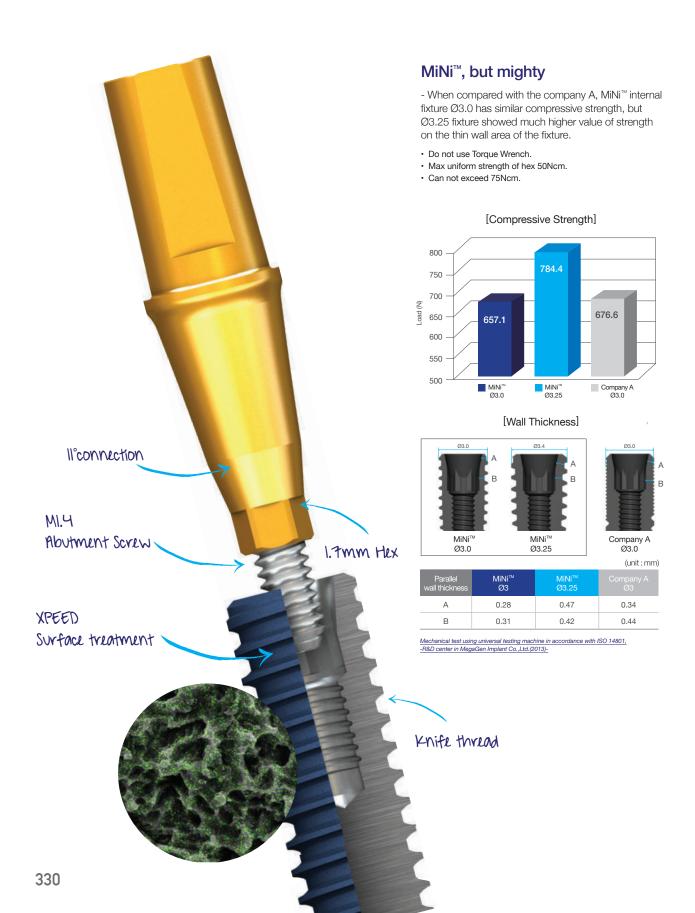
333 I. Fixture Level Prosthesis

#### 337 MiNi Overdenture

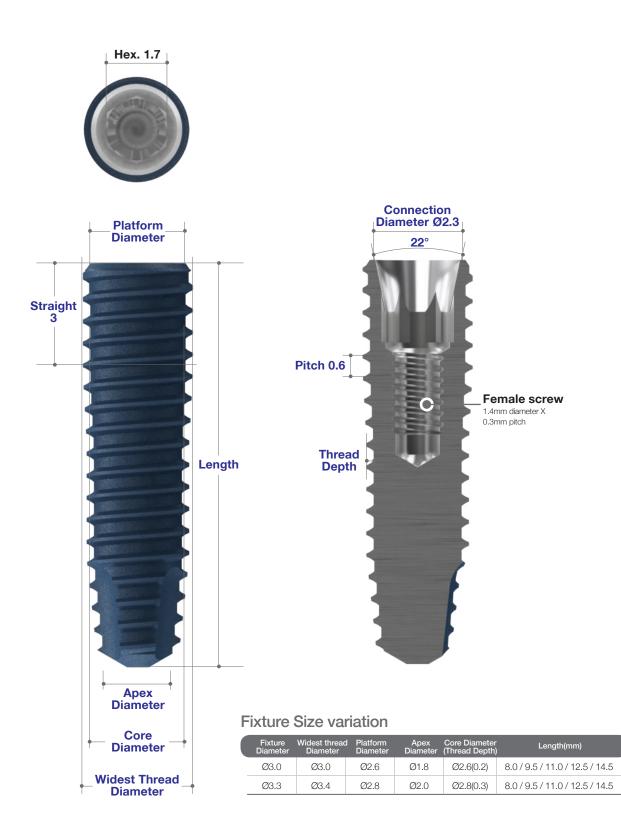
- 337 I. Fixture Dimension
- 338 II. Fixture Size
- 340 III. Overdenture Prosthesis
- <sup>340</sup> 1. Meg-Rhein Abutment & Components

344 Clinical Cases

# **Characteristics & Advantages** I. Features



# **Fixture / Cover Screw & Healing Abutment** I. Fixture Dimension



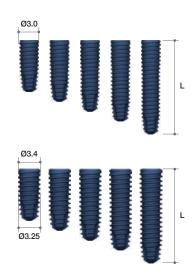
### II. Fixture Size & Cover Screw & Healing Abutment

1

### MiNi Fixture

- Cover Screw included
- Platform diameter of Ø3.0 fixture is 2.6mm.
- Platform diameter of Ø3.3 fixture is 2.8mm

Diameter	Length(mm)	Ref.C
	8.5	MIIF3008C
	10.0	MIIF3010C
Ø3.0	11.5	MIIF3011C
	13.0	MIIF3013C
	15.0	MIIF3015C
	8.5	MIIF3308C
	10.0	MIIF3310C
Ø3.3	11.5	MIIF3311C
	13.0	MIIF3313C
	15.0	MIIF3315C



#### Cover Screw

- Recommend torque : by hand (5 8Ncm).
- Only with finger force.

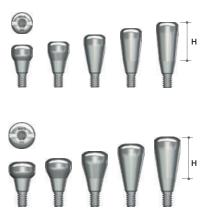
Height(mm)	Ref.C
0.5	MICS2505



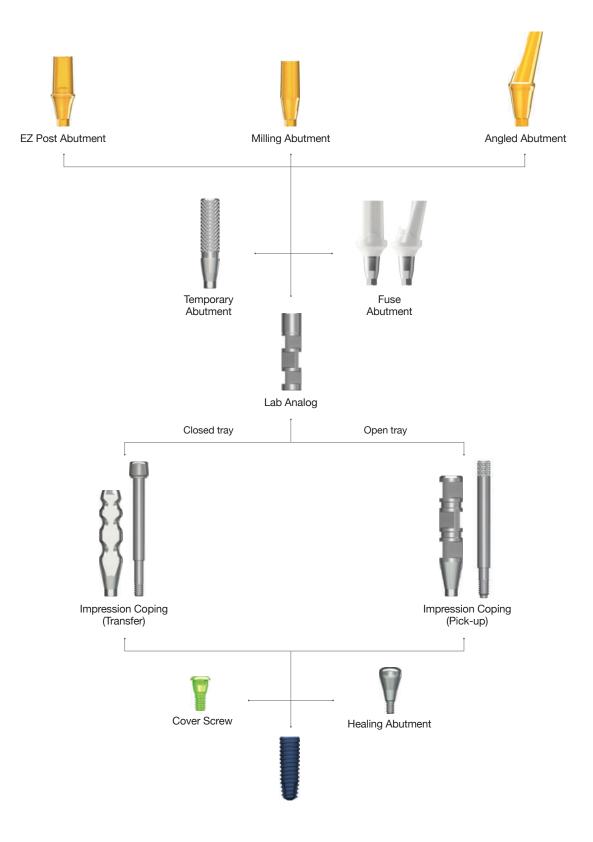
### Healing Abutment

- Recommend torque : by hand (5 8Ncm).
- Only with finger force.

Profile Diameter	Height(mm)	Ref.C
	2.5	MIHA3025
	3.0	MIHA3030
	4.0	MIHA3040
00.0	5.0	MIHA3050
Ø3.0	6.0	MIHA3060
	7.0	MIHA3070
	8.0	MIHA3080
	9.0	MIHA3090
	2.5	MIHA3525
	3.0	MIHA3530
	4.0	MIHA3540
00 F	5.0	MIHA3550
Ø3.5	6.0	MIHA3560
	7.0	MIHA3570
	8.0	MIHA3580
	9.0	MIHA3590



# **Abutment & Prosthetic Options** I. Fixture Level Prosthesis



### Abutment Options & Components (Continued)

### Impression Coping

- Guide Pin included
- Guide Pin (Transfer type MIGPT12, MIGPT16 Pick-up type - MIGPP12, MIGPP16)
- Transfer type : Should be tightened with Impression Driver (Page.374) Special Guide Pin which can be used with a 1.2mm hex driver is available on request.

Profile Diameter	Length (mm)	Ту	ре	Ref.C
	12 03.5 16	Transfer		MIIT3512HT
00 F		Pick-up	Hex	MIIP3512HT
03.5		Transfer		MIIT3516HT
		Pick-up		MIIP3516HT



I ab	Analog	
LUD	/ liulog	

Length(mm)	Ref.C
12	MILA300H



### Temporary Abutment

- Abutment Screw(MIAS14) included

Recommend torque : 10 - 15Ncm

Profile Diameter			Ref.C
Ø3.0	12	Hex	MITA3012HT



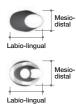
### **Fuse Abutment**

- Abutment Screw(MIAS14) + Fuse Cap included
- Recommend torque : 10 15Ncm
- For the design concept and rationale of the Fuse Abutment, please refer to Page.078

	Mesio- distal		P.H (mm)	Туре	Ref.C
QE O	Ø3 5	4.5		Straight	MFAP3545P
05.0	03.5	4.5	7.0	Angled(15°)	MFAA3415P

NEW : 4mm cuff height available — Adequate for deeply placed implants or thick gingival cases

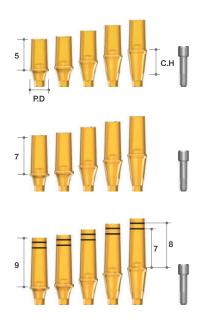




### EZ Post Abutment

- Abutment Screw(MIAS14) included
- Recommend torque : 15Ncm

Profile Diameter	Post Height(mm)	Cuff Height (mm)	Ref.C
		1.0	MIEP3505HT
		1.5	MIEP3515HT
	5.5	2.5	MIEP3525HT
		3.5	MIEP3535HT
		4.5	MIEP3545HT
		1.0	MIEP3507HT
	7.0	1.5	MIEP3517HT
Ø3.5		2.5	MIEP3527HT
		3.5	MIEP3537HT
		4.5	MIEP3547HT
		1.0	MIEP3509HT
		1.5	MIEP3519HT
	9.0	2.5	MIEP3529HT
		3.5	MIEP3539HT
		4.5	MIEP3549HT



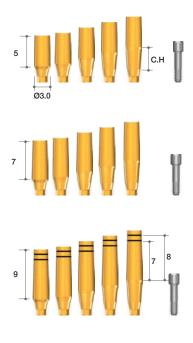
### Abutment Options & Components

### Milling Abutment

- Abutment Screw(MIAS14) included

Recommend torque : 15Ncm

Profile Diameter	Post Height(mm)	Cuff Height (mm)	Ref.C
		1.0	MIMA3005HT
		1.5	MIMA3015HT
	5.5	2.5	MIMA3025HT
		3.5	MIMA3035HT
		4.5	MIMA3045HT
		1.0	MIMA3007HT
		1.5	MIMA3017HT
Ø3.0	7.0	2.5	MIMA3027HT
		3.5	MIMA3037HT
		4.5	MIMA3047HT
		1.0	MIMA3009HT
		1.5	MIMA3019HT
	9.0	2.5	MIMA3029HT
		3.5	MIMA3039HT
		4.5	MIMA3049HT
		1.0	MIMA3505HT
		1.5	MIMA3515HT
	5.5	2.5	MIMA3525HT
		3.5	MIMA3535HT
		4.5	MIMA3545HT
		1.0	MIMA3507HT
		1.5	MIMA3517HT
Ø3.5	7.0	2.5	MIMA3527HT
		3.5	MIMA3537HT
		4.5	MIMA3547HT
		1.0	MIMA3509HT
		1.5	MIMA3519HT
	9.0	2.5	MIMA3529HT
		3.5	MIMA3539HT
		4.5	MIMA3549HT

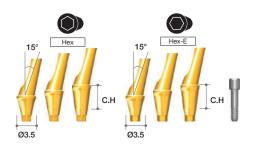


### Angled Abutment

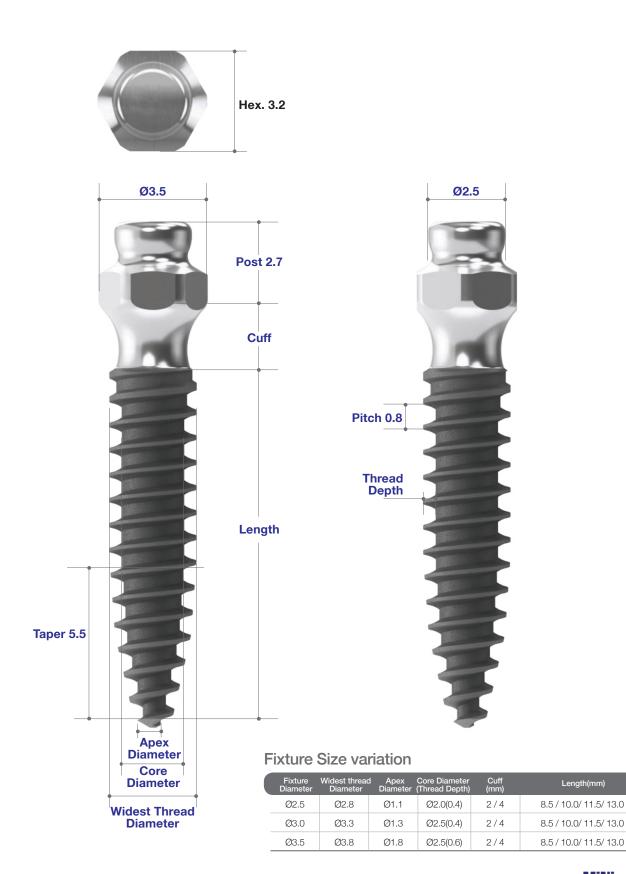
- Abutment Screw(MIAS14) included

Recommend torque : 15Ncm

Profile Diameter	C.H (mm)	P.H (mm)	Туре	Angle	Ref.C	
	2.5				MIAA3215HT	
	3.5		Hex		MIAA3315HT	
Ø3.5	4.5	0.0	9.2 Hex-E	. = 0	MIAA3415HT	
03.5	2.5	9.2		10	15°	MIAA3215ET
	3.5				MIAA3315ET	
	4.5				MIAA3415ET	



# **MiNi Overdenture** I. Fixture Dimension

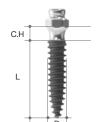


### **II. Fixture Size**

### MiNi Overdenture Fixture

- 2.5 / 3.0 / 3.5mm of diameter and 2.0 / 4.0mm with 8.5 / 10.0 / 11.5 / 13.0mm in length, it is easy to use in any circumstance. (100% compatible with Rhein83)
- To buy Meg-Rhein Components, refer to page.357

Diameter	Cuff Height(mm)	Length(mm)	Ref.C
		8.5	OF25208
Ø2.5	2	10	OF25210
02.5	2	11.5	OF25211
		13	OF25213
		8.5	OF25408
00 5		10	OF25410
Ø2.5	4	11.5	OF25411
		13	OF25413
		8.5	OF30208
<b>a</b> a a		10	OF30210
Ø3.0	2	11.5	OF30211
		13	OF30213
		8.5	OF30408
00.0		10	OF30410
Ø3.0	4	11.5	OF30411
		13	OF30413
		8.5	OF35208
00 F	0	10	OF35210
Ø3.5	2	11.5	OF35211
		13	OF35213
		8.5	OF35408
00.5		10	OF35410
Ø3.5	4	11.5	OF35411
		13	OF35413



### Product Concept

- 1. Fast osseointegration for thanks to our S-L-A surface treatment
- 2. Excellent for maxillary lateral incisor and mandible anterior
- 3. Easy-to-use, intuitive operation procedure
- 4. Excellent esthetical design
- 5. Minimize drilling sequence with 1-step insertion



### MiNi Overdenture Components

### Initial Drill

- Used to pierce the cortical bone initially.
- Advisable to go into the bone to the full length of a fixture.

Diameter	Length(mm)	Ref.C
	33	ID1818S
Ø1.8	38	*ID1818M
	43	*ID1818L

(\*) Separate sales item.



Ø2.5

### Shaping Drill

- Each drill has depth marking lines from 7.0mm to 15.0mm.
- The dual marking system(grooves and laser markings) provides visual and radiographic depth verification during surgery.
- TiN coating on drills : Enhanced corrosion resistance and abrasion resistance.

Diameter	Length(mm)	Ref.C
	33	SD2018S
Ø2.0	38	SD2018M
	43	SD2018L
	33	SD2518S
Ø2.5	38	SD2518M
	43	SD2518L
	33	SD2818S
Ø2.8	38	SD2818M
	43	SD2818L





#### Handpiece Connector

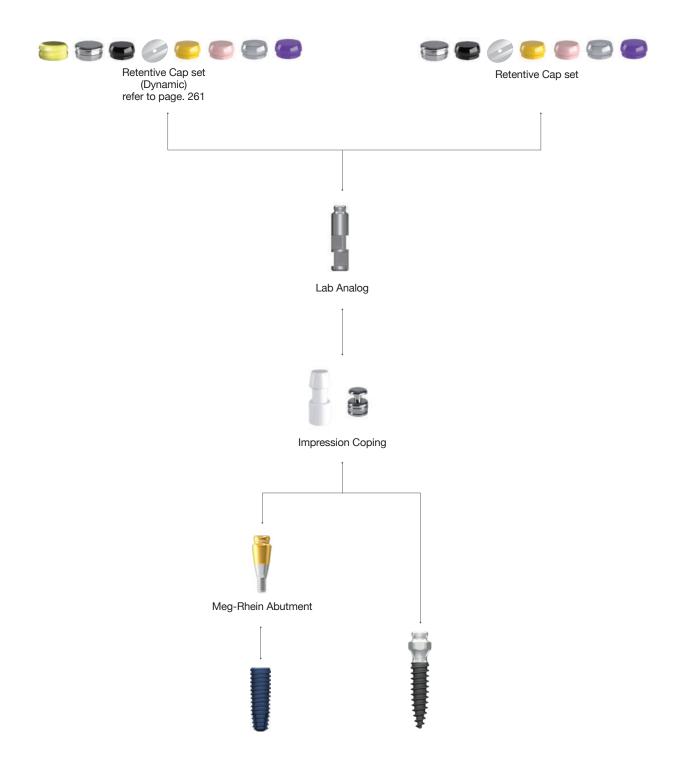


Ratchet Connector	
-------------------	--

Туре	Length(mm)	Ref.C
Short	12	ORCS

8 10

# III. Overdenture Prosthesis 1. Meg-Rhein Abutment & Components



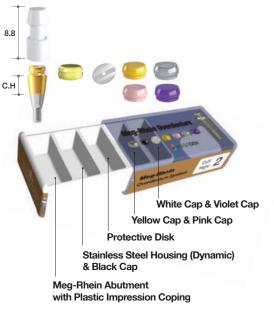
### Meg-Rhein Overdenture System

(Refer to the advantage of overdenture system on page. 249)

Meg-Rhein	Cuff Height (mm)	Ref.C
Overdenture System	0	MDR00PA
(Dynamic)	1.0	MDR01PA
<ul> <li>1 Meg-Rhein Abutment</li> <li>1 Plastic Impression Coping</li> <li>1 Stainless Steel Housing (Dynamic) &amp; Black-Lab</li> <li>1 Protective Disk</li> </ul>	2.0	MDR02PA
	3.0	MDR03PA
	4.0	MDR04PA
	5.0	MDR05PA
<ul> <li>4 Retentive Caps</li> <li>(Yellow-0.6kgf, Pink-1.2kgf, White-1.8kgf,</li> </ul>	6.0	MDR06PA
Violet-2.7kgf)		

Perfect compatibility with the Rhein83 from Italy.

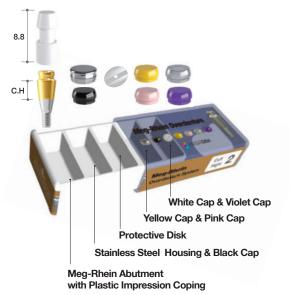
Recommend torque : 15Ncm.



### Meg-Rhein Overdenture System

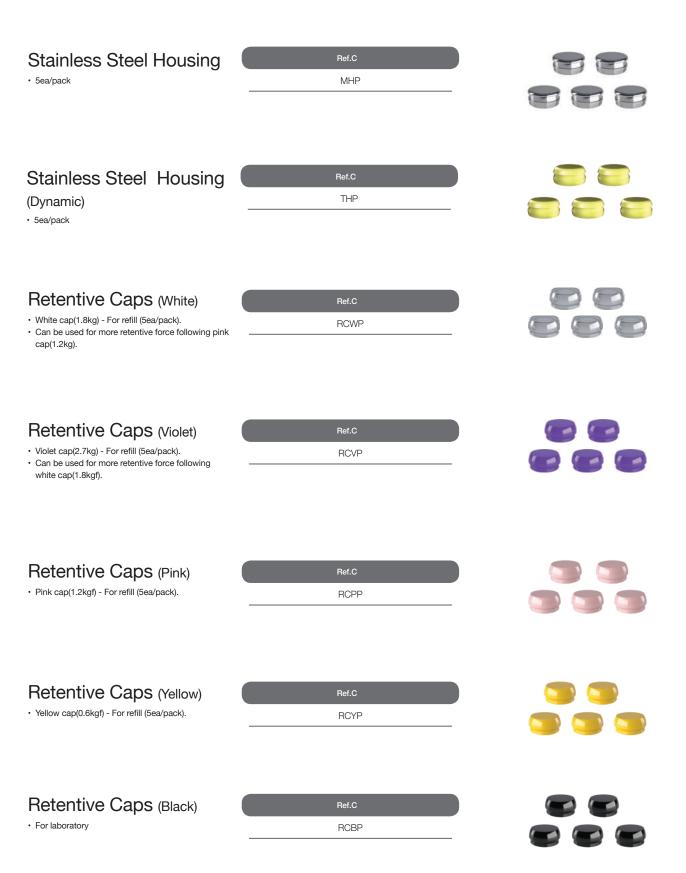
- 1 Meg-Rhein Abutment
- 1 Plastic Impression Coping
- 1 Stainless Steel Housing
- 1 Protective Disk
- 5 Retentive Caps
- (Black-Lab, Yellow-0.6kgf, Pink-1.2kgf, White-1.8kgf, Violet-2.7kgf)
- · Perfect compatibility with the Rhein83 from Italy.
- Recommend torque : 15Ncm.

Cuff Height (mm)	Ref.C
0	MDR00P
1.0	MDR01P
2.0	MDR02P
3.0	MDR03P
4.0	MDR04P
5.0	MDR05P
6.0	MDR06P



**MiNi**\_341

### Components for Meg-Rhein Abutment





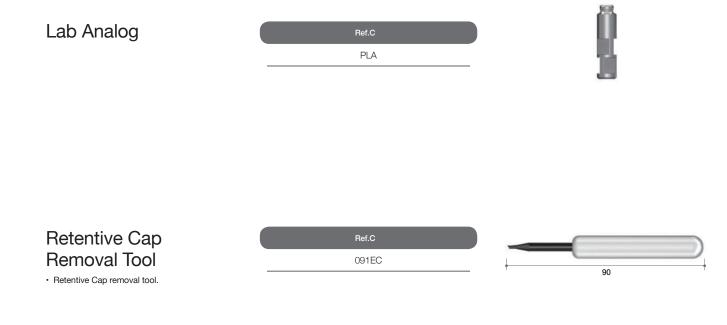
2ea/pack. Italy - Rhein 83 products.

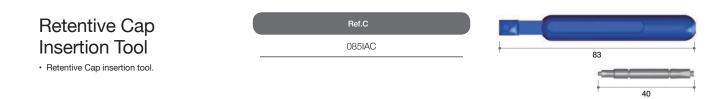
• For accurate (pick-up type) impression.

Metal with groove design to prevent from swaying.









# **MiNi Clinical Case**



- Courtesy of Dr. Achraf Souayah

Fig 1. Intra-oral initial situation, front view

Fig 2. DSD analysis. The yellow dotes shows where the right canine should be moved for better smile outcome

Fig 3. Details of incision design. Front view

Fig 4. Final Drills in sites, front view. Flap was elevated and two osteotomy sockets were made for 3.0 mm Mini fixtures.

**Fig 5.** Implant placement on site # 22. There was enough bone left labiolingually even at this thin ridge. There was no bone defect.

**Fig 6.** Occlusal view of the placed implants, 0.5 mm sub-crestally. Two 3.0\*13mm MiNi implants were placed with excellent primary stability.



Fig 7. Sutured implant sites. Frontal view

**Fig 8.** Sutured implant sites, occlusal views & Post-operative retro-alveolar radiographs

Fig 9. Healed sites at 2 months recall, occlusal view

Fig 10. Different views of the copings placed over the EZ Post Abutments

Fig 11. Views of the temporary crowns with clean margins and concave buccal contour

**Fig 12.** Clinical photo of the intra-oral solidarization of the prefabricated teeth to the copings

**Fig 13.** Clinical photo immediately after temporary crown cementation. Notice the vertical position of the gingival margins of the laterals.

**Fig 14.** Temporary smile of the patient immediately after temporary cementation of the provisionals.





# Advanced Intermezzo™



#### **Key Advantages**

Strong solution for narrow ridge & Anterior teeth

Double connection design concept drastically reduces stuck phenomenon between fixture and connector

Guide Slot provides better feeling of identification and correction

348 Characteristics & Advantages348 I. Features

#### 349 Fixture Product

- 349 I. Fixture Dimension
- 350 II. Fixture Size
- 351 III. Components for Advanced Intermezzo

352 Clinical Cases

# **Characteristics & Advantages** I. Features

#### Double Connection Post Design

#### Guide Slot

Fast and precise connection between fixture and counterpart (Prosthetics and Connector)

#### Post Hex "

Adequate hex for implant placement
Stable positioning even when upper section of post is removed

### Check Line

Check line that confirms fixture placement depth and precise connection to prosthetics

#### Biological Narrow Neck

 Secure adjustable implant placement depth according to clinical situation
 Better esthetic result guaranteed

### Cutting Edge

Smooth insertion via bone tapping function

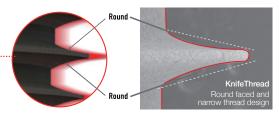
### Advanced Intermezzo, best choice for immediate placement in anterior region and narrow space

- Double connection design concept drastically reduces stuck phenomenon between fixture and connector, a chronic problem with existing OnePiece Type products
- Guide Slot provides better feeling of identification and correction
- Location of hex in lower section of post enables placement and removal even if post is partially eliminated.
- Check line allows prediction of fixture depth and confirmation of correct connection with prosthetics
- Concave-shaped cuff helps beautiful & healthy papillar line.
- Narrow neck design, which is smaller than maximum diameter of thread part, allows adjustable implant placement depth according to clinical situation
- Knife thread and cutting edge provide smooth insertion
- S-L-A surface contributes to fast bone formation

S-L-A Surface

- Pure Titanium Grade4(Cold Worked) provides strength, high torsion rate, angood long term BIC rate

### **KnifeThread**<sup>®</sup>



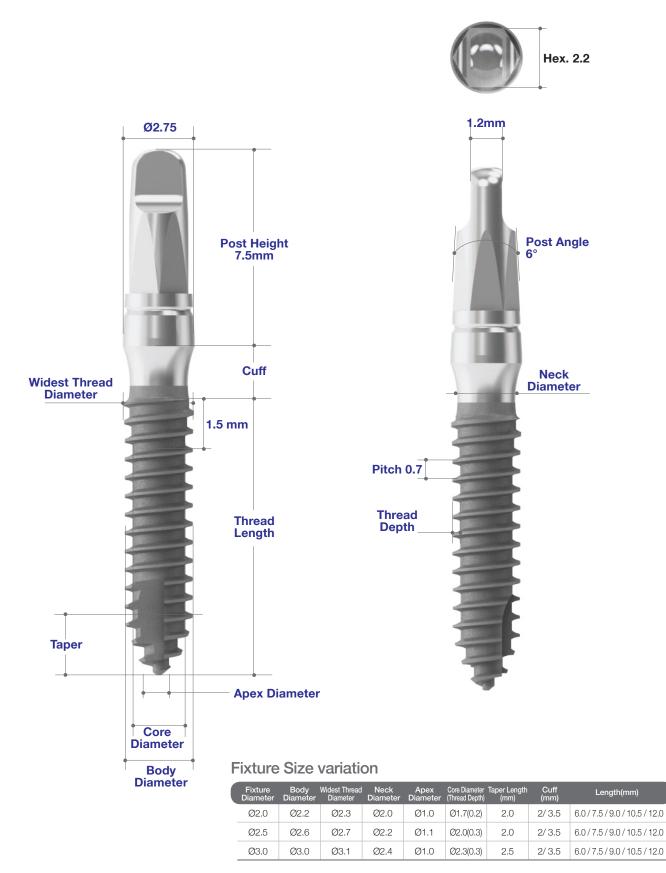


#### Homogeneous Surface

Crest	X1.0K	X3.0K
Root	Х1.0К	X3.0K
Flank	X1.0K	X3.0K

\* Shows equal surface treatment

# **Fixture Product** I. Fixture Dimension

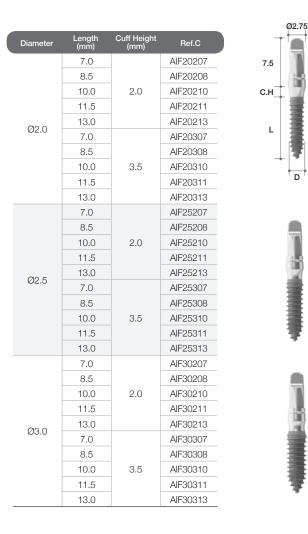


### Advanced Intermezzo\_349

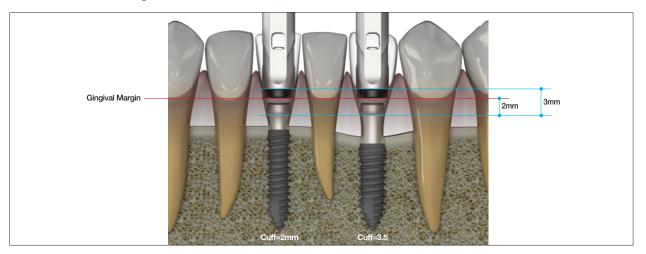
## **II. Fixture Size**

### Advanced Intermezzo Fixture

- Connector for insertion
   HandPiece Connector(AIHCL)
   Ratchet Connector(AIRCL)
   Do not exceed 60Ncm
- If fixture is stuck to connector, it can be extracted by 1.2 Hex hand drive
- Refer to Page. 416
- Prosthetics
- Comfort Cap(AICC) - Snap Impression Coping(AISIC)



### **Fixture Depth Guide**



### **III. Components for Advanced Intermezzo**

### Comfort Cap

- Protects post and minimizes irritation to tongue and oral mucosa
- Can be applied under temporary prosthetics

Diameter	Length(mm)	Ref.C
Ø3.1	6.9	AICC



#### Snap Impression Coping

Diameter	Length(mm)	Ref.C	
Ø4.0	11.5	AISIC	



Use for precise impression coping on Advanced Intermezzo

Add scanning function design

### Lab Analog

 Directly connects to Snap Impression Coping in impression to make stone model

Туре	Ref.C
Pin	AIPLAN3
RP	AIRLAN3



# **Advanced Intermezzo Clinical Case**

### Clinical Case I

- Courtesy of Dr. Jung Sam Lee

Fig 1. Initial (buccal view)

Fig 2. Initial (occlusal view)

Fig 3. Initial, drilling & implant placement (periapical radiographs)

Fig 4. Sectional CBCT views following implant placement

Fig 5. Implant Placement

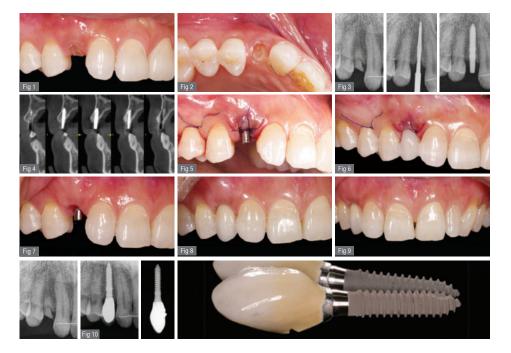
Fig 6. A pontic bonded to the adjacent teeth as a provisional implant restoration

**Fig 7.** The created emergence profile prior to final impression taking at 3 months

**Fig 8.** Definitive prosthesis at 4.5 months (lateral view))

Fig 9. Definitive prosthesis at 4.5 months (frontal view)

Fig 10. Posttreatment periapical radiograph





- Courtesy of Dr. Jung Sam Lee

Fig 1. Initial (frontal view)

Fig 2. Initial (occlusal view)

Fig 3. Pre-Op sectional CBCT views

Fig 4. Implant placement

**Fig 5.** A pontic bonded to the adjacent teeth as a provisional implant restoration

Fig 6a. Initial periapical radiograph

Fig 6a. Periapical radiograph following implant placement

Fig 7. Gingival recontouring with a provisional implant restoration

Fig 8. A provisional implant restoration at 3 months

Fig 9. Posttreatment sectional CBCT images

Fig 10. Definitive implant restoration (frontal view)

Fig 11. Definitive implant restoration (occlusal view at 5 months)

Fig 12. Posttreatment periapical radiograph at 5 months



# Palatal Denture Stabilizer<sup>™</sup>



Key Advantages Implants which can be placed in palatal side

Self tapping

### 354 Characteristics & Advantages

354 I. Design Concept

- 355 Fixture Product
- 355 **I. Fixture Dimension**
- 355 II. Fixture Size

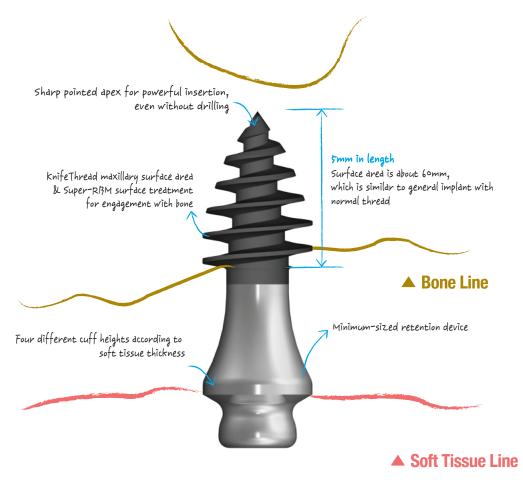
### 356 Abutment & Prosthetic Options

356 I. Overdenture Prosthesis

356 1. Meg-Rhein Components

360 Surgical Kit

# **Characteristics & Advantages** I. Design Concept



Palatal Denture Stabilizer is unique & specifically designed to stabilize upper dentures

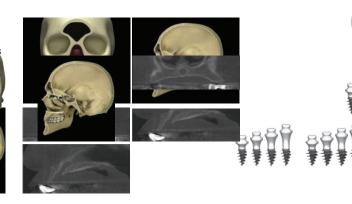
#### Why is Palatal Denture Stabilizer needed?

- Maxillary arch is most common area for ridge augmentation/bone graft
- When using temporary dentures, direct pressure on surgical site can result in wound dehiscence and/or movement of bone graft
- Palatal denture stabilizer provides relief to surgical area with excellent stabilization of temporary dentures
- Also useful for stabilizing permanent dentures

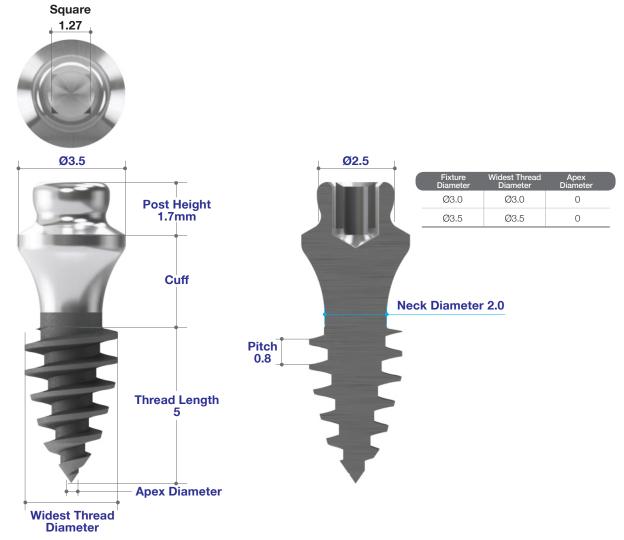
#### Why does Palatal Denture Stabilizer work?

- Palatal maxillary bone structure does not change, even with long-term use of dentures
- Bone thickness is almost 5mm under rugae area & along mid-palata





# **Fixture Product** I. Fixture Dimension



## **II. Fixture Size**

#### Ø3.0

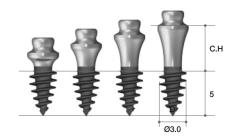
Cuff: 2 / 3 / 4 / 5mm
Fixture Length: 5mm

 
 Diameter
 Cuff Height
 Core Diameter
 Length (mm)
 Ref. C

 2.0
 3.0
 PF3025
 PF3035

 03.0
 02.0
 5
 PF3045

 5.0
 9F3055
 PF3055

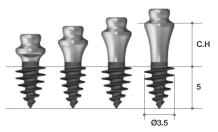


### Ø3.5

• Cuff: 2 / 3 / 4 / 5mm

• Fixture Length : 5mm

Diameter	Cuff Height	Core Diameter	Length (mm)	Ref. C		
	2.0			PF3525		
00 F	3.0	Ø2.0	Ø2.0	<u> </u>	E	PF3535
Ø3.5	4.0			5	PF3545	
	5.0			PF3555		

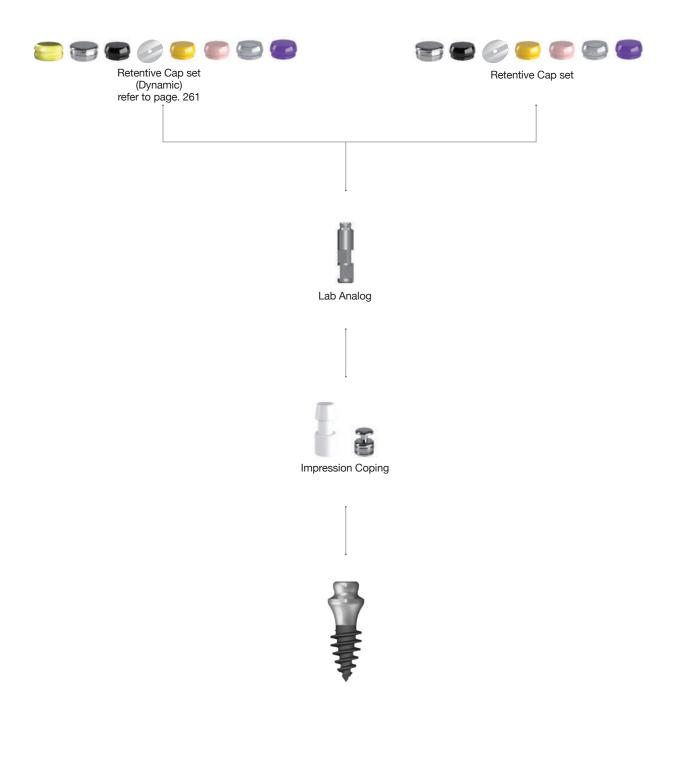


#### Palatal Denture Stabilizer<sup>™</sup>\_355

# **Abutment & Prosthetic Options**

### I. Overdenture Prosthesis

# **1. Meg-Rhein Components**





### Meg-Rhein Overdenture System

(Refer to the advantage of overdenture system on page. 249)

### Meg-Rhein **Overdenture System**

#### (Dynamic)

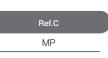
- 1 Plastic Impression Coping
- 1 Stainless Steel Housing (Dynamic) &
- Black-Lab
- 1 Protective Disk
- 4 Retentive Caps (Yellow-0.6kg, Pink-1.2kg, White-1.8kg,
- Violet-2.7kg)
- Perfect compatibility with the Rhein83 from Italy.
- Recommend torque : 15Ncm.





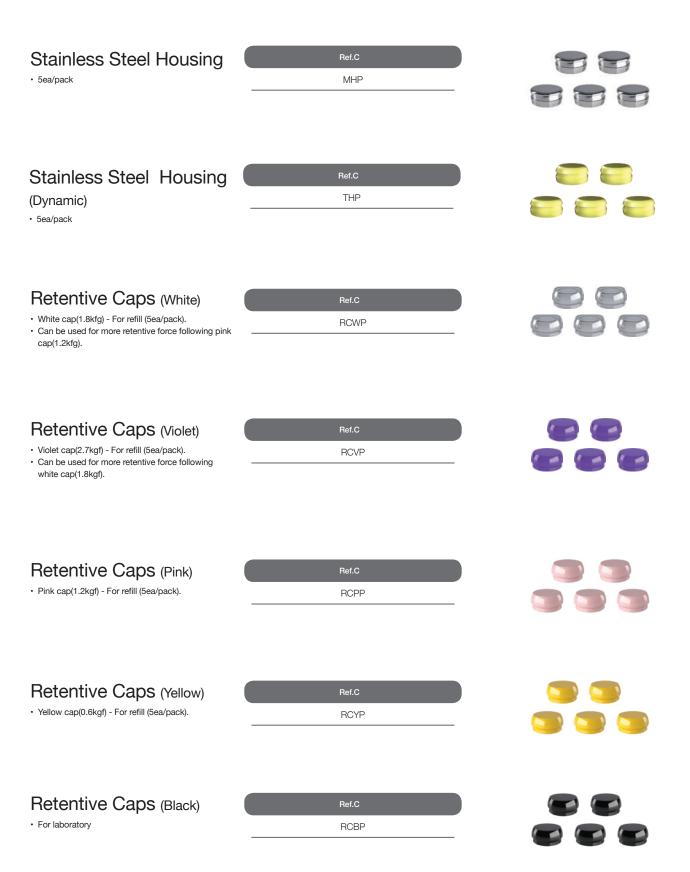
### Meg-Rhein **Overdenture System**

- 1 Plastic Impression Coping
- 1 Stainless Steel Housing
- 1 Protective Disk
- 5 Retentive Caps
- (Black-Lab, Yellow-0.6kg, Pink-1.2kg, White-1.8kg, Violet-2.7kg)
- · Perfect compatibility with the Rhein83 from Italy.





### Components for Meg-Rhein Abutment



### **Stainless Impression** Coping (Pick-Up)

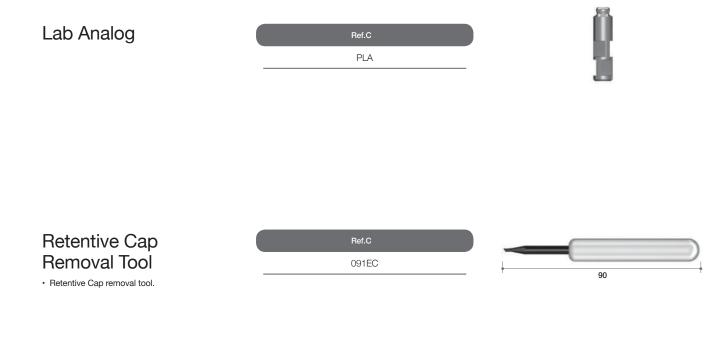
2ea/pack. Italy - Rhein 83 products.

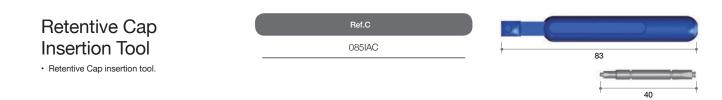
• For accurate (pick-up type) impression.

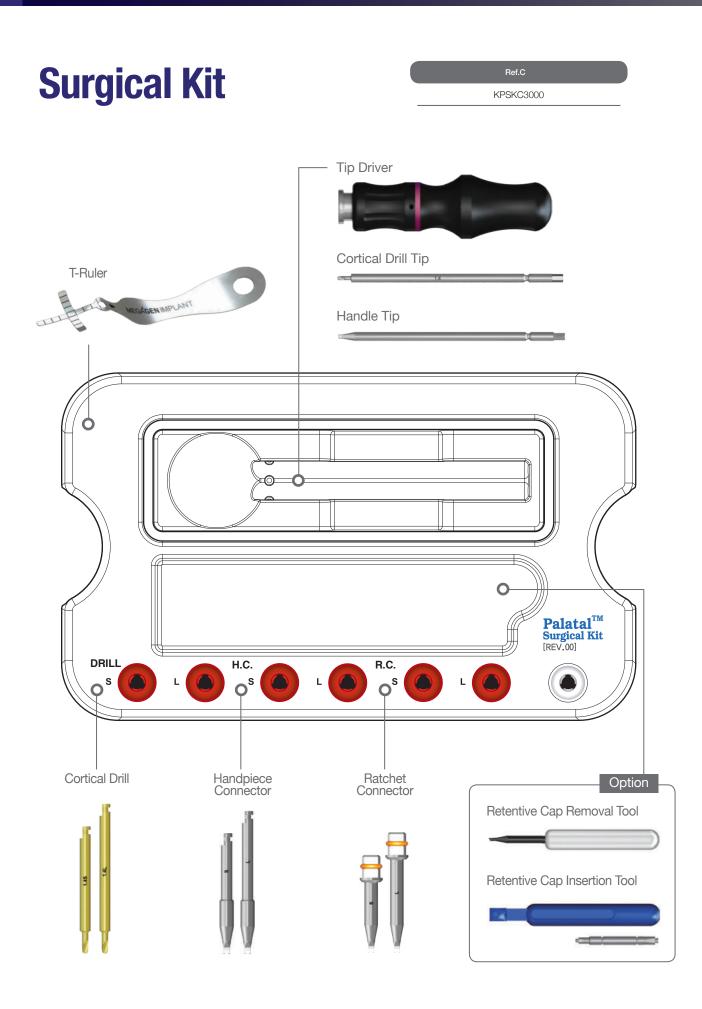
Metal with groove design to prevent from swaying.

Ref.C 044CAIN



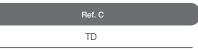




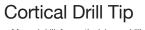


### Surgical Kit Components (Continued)

Tip Driver







Manual drill for cortical bone drilling

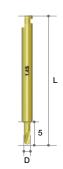
Diameter	Length (mm)	Ref.C
Ø1.4	80	PCDT

Handle Tip	Square	Length (mm)	Ref.C
• Manual type	1.07	80	PHTL
	1.27	100	PHTLEL

### **Cortical Drill**

Recommended drilling speed : 300~800 RPM

Diameter	Length (mm)	Ref.C
Ø1.4	28	PCDS
	33	PCDL



### Handpiece Connector

- Handpiece type
- Recommend torque : Less that 50Ncm

Square	Length (mm)	Ref.C
1.27	25	PHCS
	30	PHCL



### **Ratchet Connector**

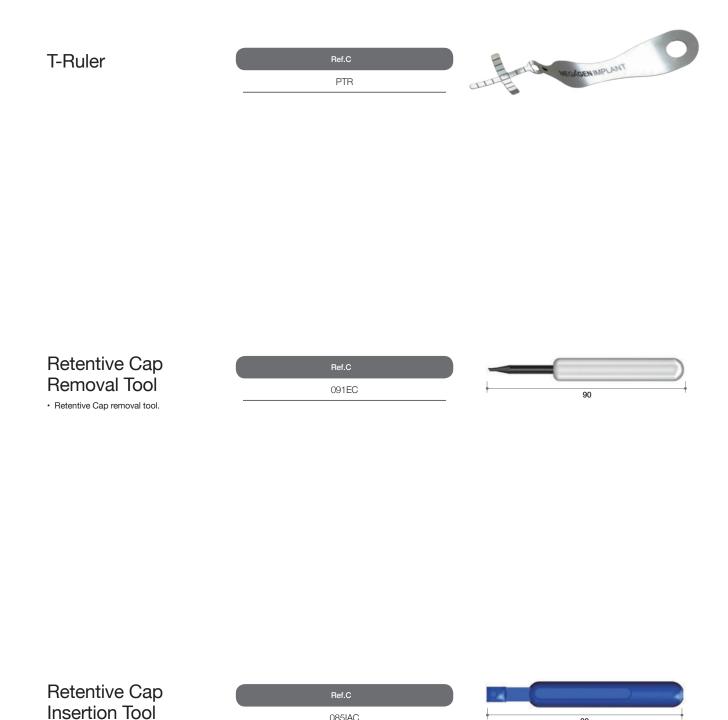
- Ratchet Wrench typeRecommend torque : Less that 50Ncm

Square	Length (mm)	Ref.C
1.27	20	PRCS
	25	PRCL



Retentive Cap insertion tool.

### Surgical Kit Components



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83

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