



Key Advantages

Strong solution for narrow ridge & Anterior small teeth.

Mini, but mighty.



342 Characteristics & Advantages

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349 I. Fixture Dimension

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352 III. Overdenture Prosthesis

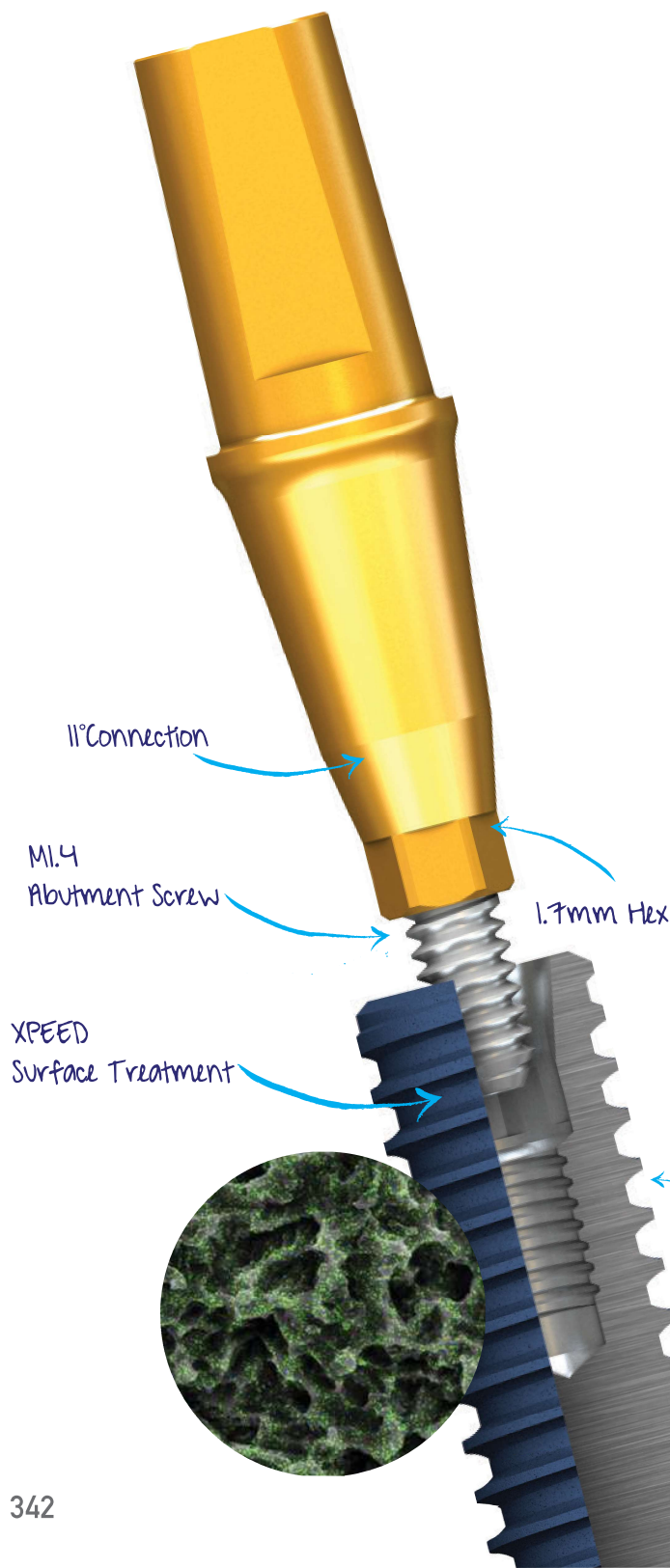
352 1. Meg-Rhein Abutment & Components

** Refer to page 588 for more information on Digital Prosthesis*

356 Clinical Case

Characteristics & Advantages

I. Features

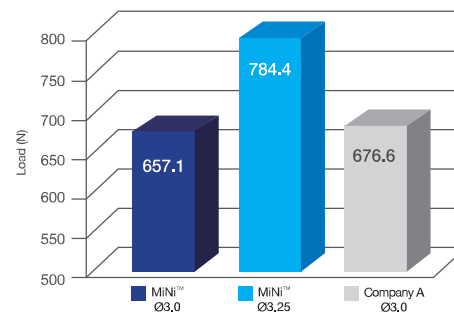


MiNi™, but mighty

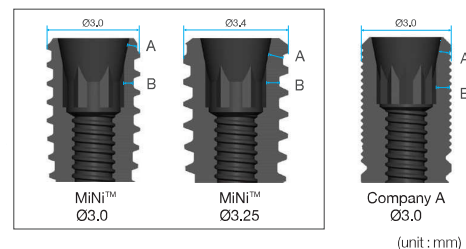
- When compared with the company A, MiNi™ internal fixture Ø3.0 has similar compressive strength, but Ø3.25 fixture showed much higher value of strength on the thin wall area of the fixture.

- Do not use Torque Wrench.
- Max uniform strength of hex 50Ncm.
- Can not exceed 75Ncm.

[Compressive Strength]



[Wall Thickness]

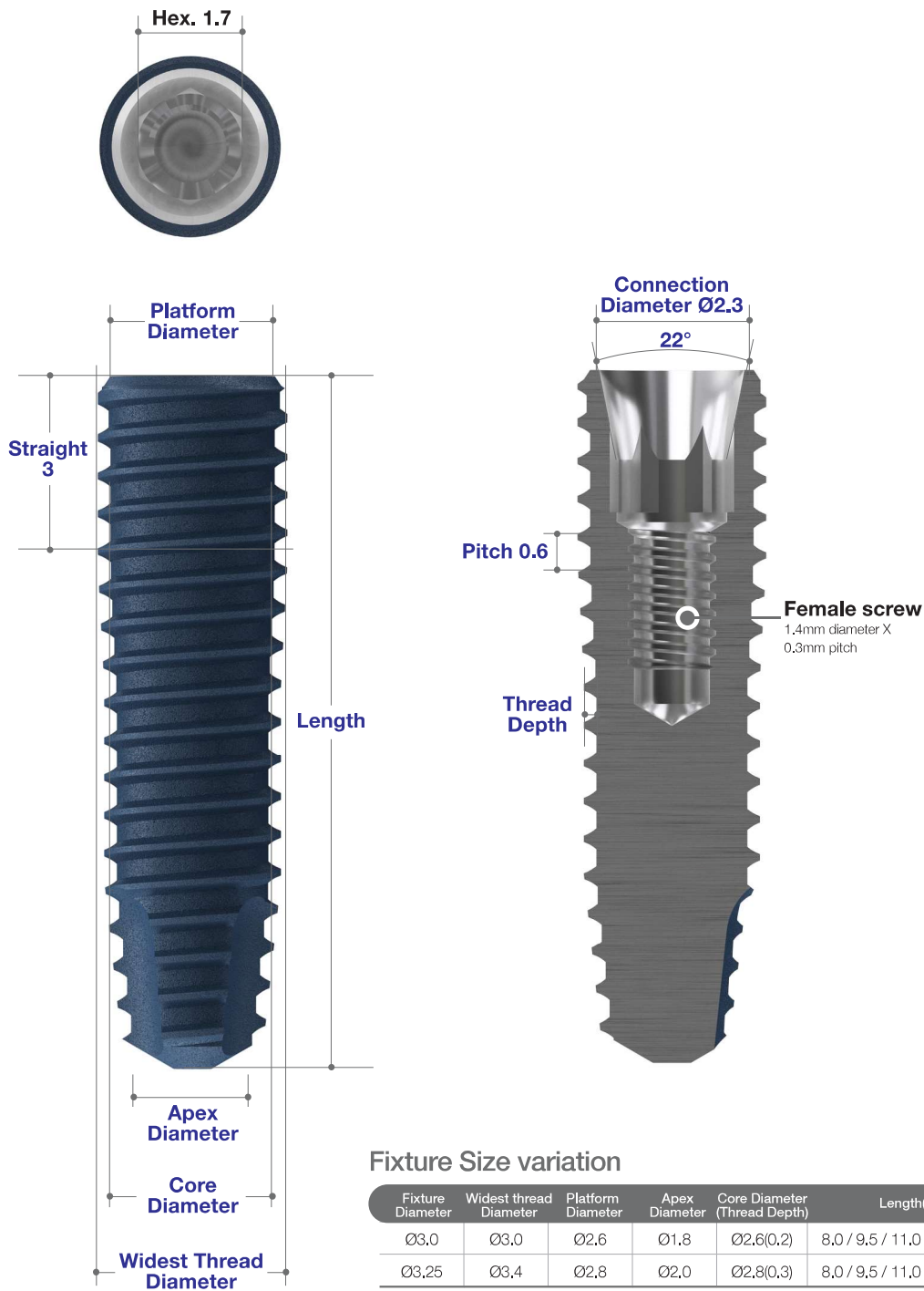


Parallel wall thickness	MiNi™ Ø3	MiNi™ Ø3.25	Company A Ø3
A	0.28	0.47	0.34
B	0.31	0.42	0.44

Mechanical test using universal testing machine in accordance with ISO 14801.
-R&D center in MegaGen Implant Co., Ltd. (2013)-

Fixture Product & Package

I. Fixture Dimension



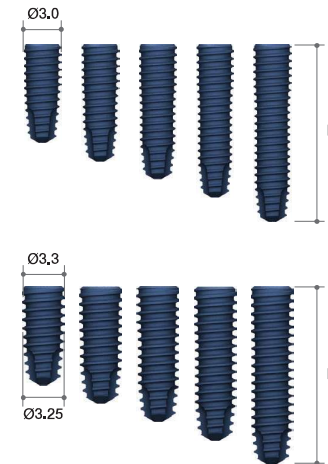
II. Fixture Size & Cover Screw & Healing Abutment

MiNi Fixture

- Cover Screw included

- Platform Diameter :
Ø3,0 Fixture: Ø3,0mm
Ø3,25 Fixture: Ø3,4mm

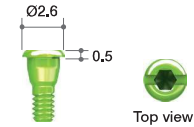
Diameter	Length(mm)	Ref.C
Ø3,0	8,5	MIIF3008C
	10,0	MIIF3010C
	11,5	MIIF3011C
	13,0	MIIF3013C
	15,0	MIIF3015C
Ø3,25	8,5	MIIF3308C
	10,0	MIIF3310C
	11,5	MIIF3311C
	13,0	MIIF3313C
	15,0	MIIF3315C



Cover Screw

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

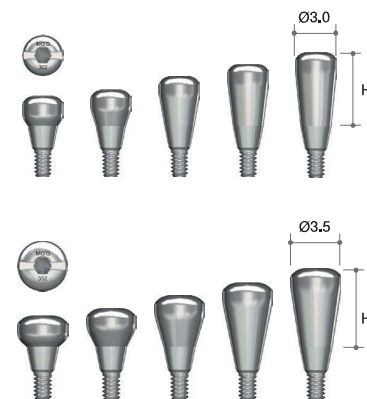
Profile Diameter	Height(mm)	Ref.C
Ø2,6	0,5	MICS2505



Healing Abutment

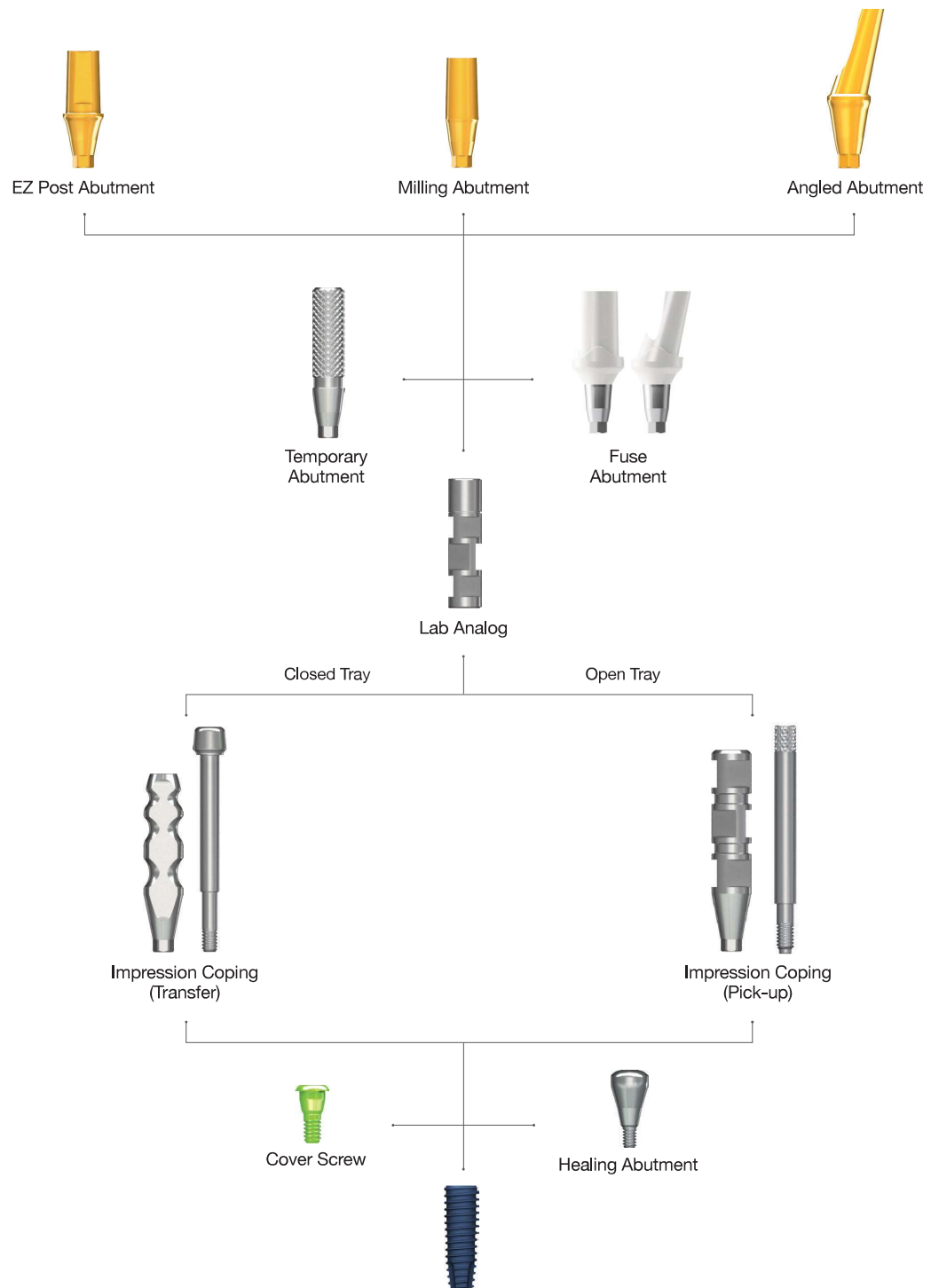
- Recommend torque : by hand (5 - 8Ncm).
- Only with finger force.

Profile Diameter	Height(mm)	Ref.C
Ø3,0	2,5	MIHA3025
	3,0	MIHA3030
	4,0	MIHA3040
	5,0	MIHA3050
	6,0	MIHA3060
	7,0	MIHA3070
	8,0	MIHA3080
	9,0	MIHA3090
Ø3,5	2,5	MIHA3525
	3,0	MIHA3530
	4,0	MIHA3540
	5,0	MIHA3550
	6,0	MIHA3560
	7,0	MIHA3570
	8,0	MIHA3580
	9,0	MIHA3590



Abutment & Prosthetic Options

I. Fixture Level Prosthesis



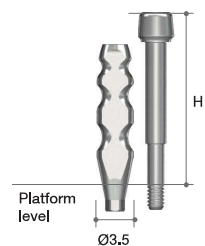
➡ Abutment Options & Components (Continued)

Impression Coping (Transfer Type)

- Guide Pin (MIGPT12 / MIGPT16) included

- For use with Closed-tray technique
- Design ensures easy & accurate transfer of fixture position
- Flat surface of impression coping aligns with flat Hex surface within fixture
- Should be tightened with Impression Driver

Profile Diameter	Height (mm)	Type	Ref.C
Ø3,5	12	Hex	MIIT3512HT
	16		MIIT3516HT

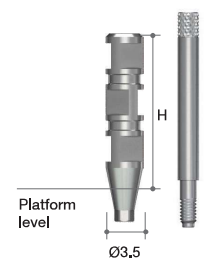


Impression Coping (Pick-up Type)

- Guide Pin (MIGPP12 / MIGPP16) included

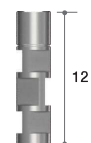
- Most beneficial for multiple fixtures that will be splinted together
- Tray angle body design ensures stability within impression & accurate transfer of fixture position

Profile Diameter	Height (mm)	Type	Ref.C
Ø3,5	12	Hex	MIIP3512HT
	16		MIIP3516HT



Lab Analog

Length(mm)	Ref.C
12	MILA300H

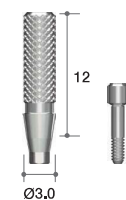


Temporary Abutment

- Abutment Screw(MIAS14) included

- Recommend torque : 10 - 15Ncm

Profile Diameter	Length(mm)	Type	Ref.C
Ø3,0	12	Hex	MITA3012HT



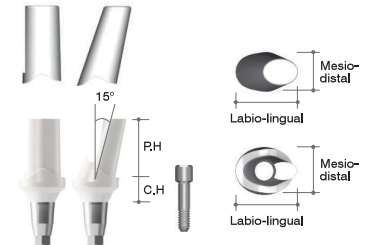
Fuse Abutment

- Abutment Screw(MIAS14) + Fuse Cap included

- Recommend torque : 10 – 15Ncm
- Straight / 15°
- P. 085 Reference
- Safe Implant Surgery with a Fracture Threshold of less than 200Ncm

Labio-lingual	Mesio-distal	C.H (mm)	P.H (mm)	Type	Ref.C
Ø5,0	Ø3,5	4,5	7,0	Straight	MFAP3545P
				Angled(15°)	MFAA3415P

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

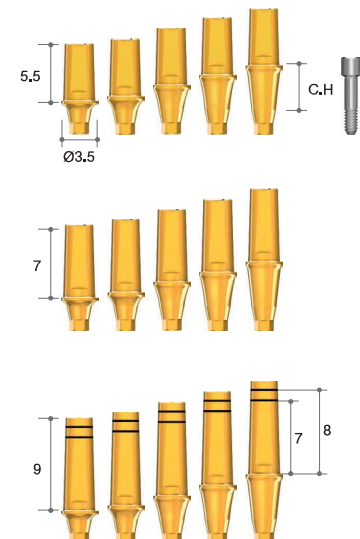


EZ Post Abutment

- Abutment Screw(MIAS14) included

- Recommend torque : 15Ncm
- Post Height : 5,5 / 7 / 9 mm
- Long post height suitable for anterior teeth
- Cuff Height : 1 / 1,5 / 2,5 / 3,5 / 4,5 mm

Profile Diameter	Post Height(mm)	Cuff Height (mm)	Ref.C
Ø3,5	5,5	1,0	MIEP3505HT
		1,5	MIEP3515HT
		2,5	MIEP3525HT
		3,5	MIEP3535HT
		4,5	MIEP3545HT
	7,0	1,0	MIEP3507HT
		1,5	MIEP3517HT
		2,5	MIEP3527HT
		3,5	MIEP3537HT
		4,5	MIEP3547HT
	9,0	1,0	MIEP3509HT
		1,5	MIEP3519HT
		2,5	MIEP3529HT
		3,5	MIEP3539HT
		4,5	MIEP3549HT



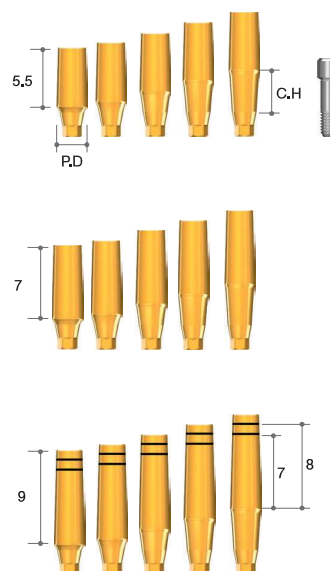
➔ Abutment Options & Components

Milling Abutment

- Abutment Screw(MIAS14) included

• Recommend torque : 15Ncm

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

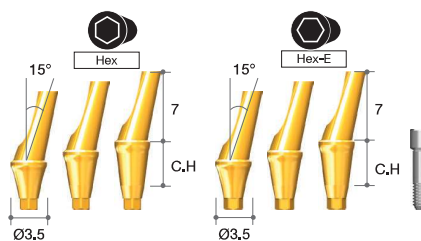


Angled Abutment

- Abutment Screw(MIAS14) included

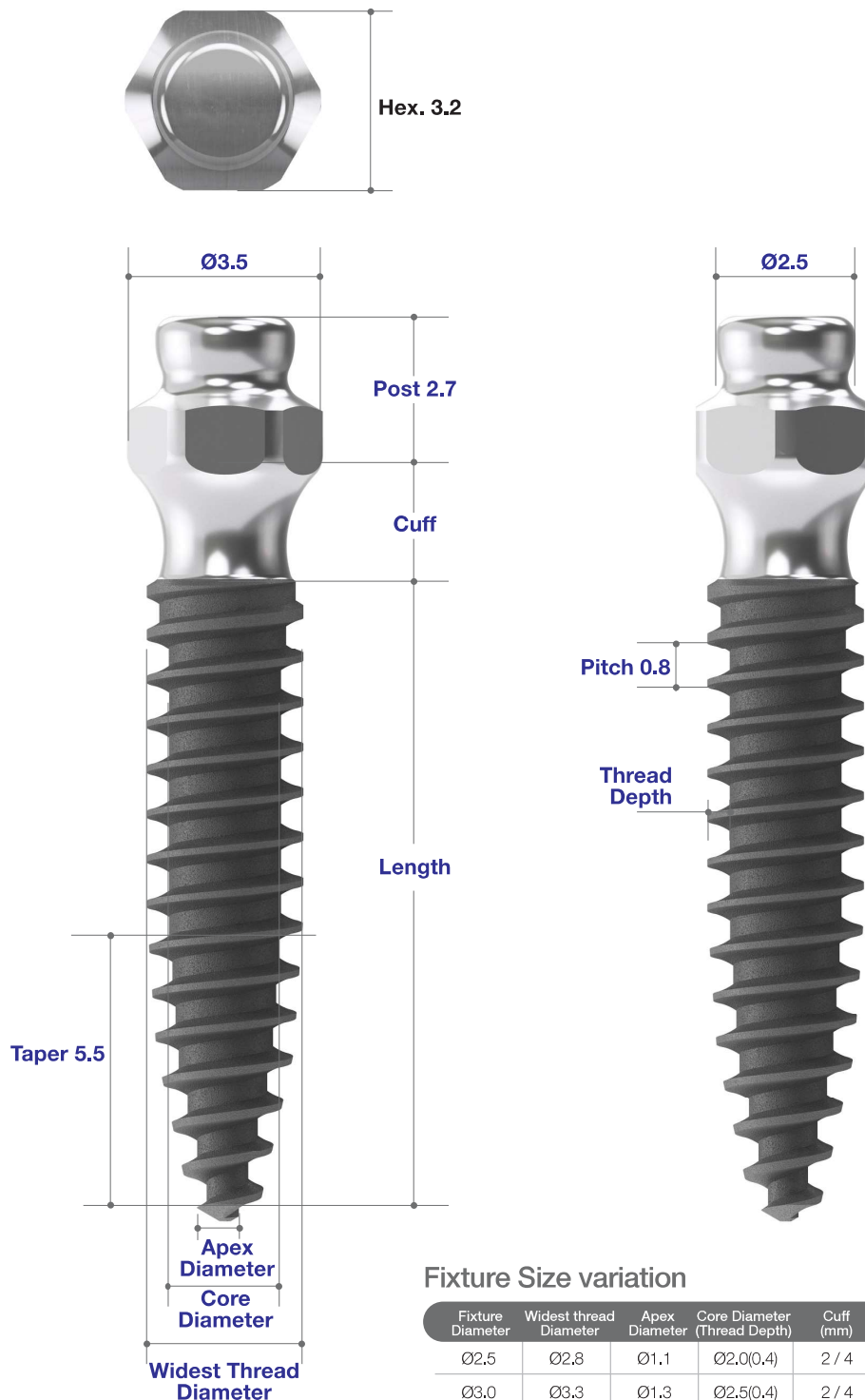
• Recommend torque : 15Ncm

Profile Diameter	Cuff Height(mm)	Post Height(mm)	Type	Angle	Ref.C
Ø3.5	2,5	7.0	Hex	15°	MIAA3215HT
	3,5				MIAA3315HT
	4,5				MIAA3415HT
	2,5		Hex-E		MIAA3215ET
	3,5				MIAA3315ET
	4,5				MIAA3415ET



MiNi Overdenture

I. Fixture Dimension



Fixture Size variation

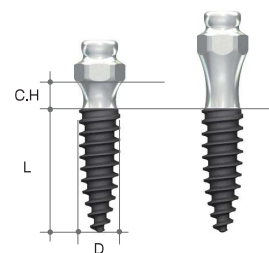
Fixture Diameter	Widest thread Diameter	Apex Diameter	Core Diameter (Thread Depth)	Cuff (mm)	Length(mm)
Ø2.5	Ø2.8	Ø1.1	Ø2.0(0.4)	2 / 4	8,5 / 10,0/ 11,5/ 13,0
Ø3.0	Ø3.3	Ø1.3	Ø2.5(0.4)	2 / 4	8,5 / 10,0/ 11,5/ 13,0
Ø3.5	Ø3.8	Ø1.8	Ø2.5(0.6)	2 / 4	8,5 / 10,0/ 11,5/ 13,0

II. Fixture Size

MiNi Overdenture Fixture

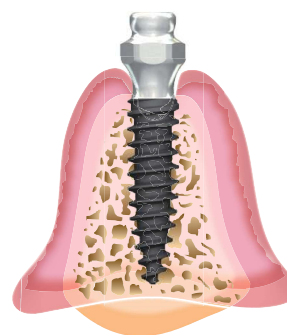
- 2,5 / 3,0 / 3,5mm of diameter and 2,0 / 4,0mm with 8,5 / 10,0 / 11,5 / 13,0mm in length, it is easy to use in any circumstance. (100% compatible with Rhein83)

Diameter	Cuff Height(mm)	Length(mm)	Ref.C
Ø2,5	2	8,5	OF25208
		10	OF25210
		11,5	OF25211
		13	OF25213
Ø2,5	4	8,5	OF25408
		10	OF25410
		11,5	OF25411
		13	OF25413
Ø3,0	2	8,5	OF30208
		10	OF30210
		11,5	OF30211
		13	OF30213
Ø3,0	4	8,5	OF30408
		10	OF30410
		11,5	OF30411
		13	OF30413
Ø3,5	2	8,5	OF35208
		10	OF35210
		11,5	OF35211
		13	OF35213
Ø3,5	4	8,5	OF35408
		10	OF35410
		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
Ø1.8	33	ID1818S
	38	*ID1818M
	43	*ID1818L

(*) Separate sales item

Ø1.8



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
Ø2.0	33	SD2018S
	38	SD2018M
	43	SD2018L
Ø2.5	33	SD2518S
	38	SD2518M
	43	SD2518L
Ø2.8	33	SD2818S
	38	SD2818M
	43	SD2818L

Ø2.0



Ø2.5



Ø2.8



Handpiece Connector

Type	Ref.C
Short	OHCS



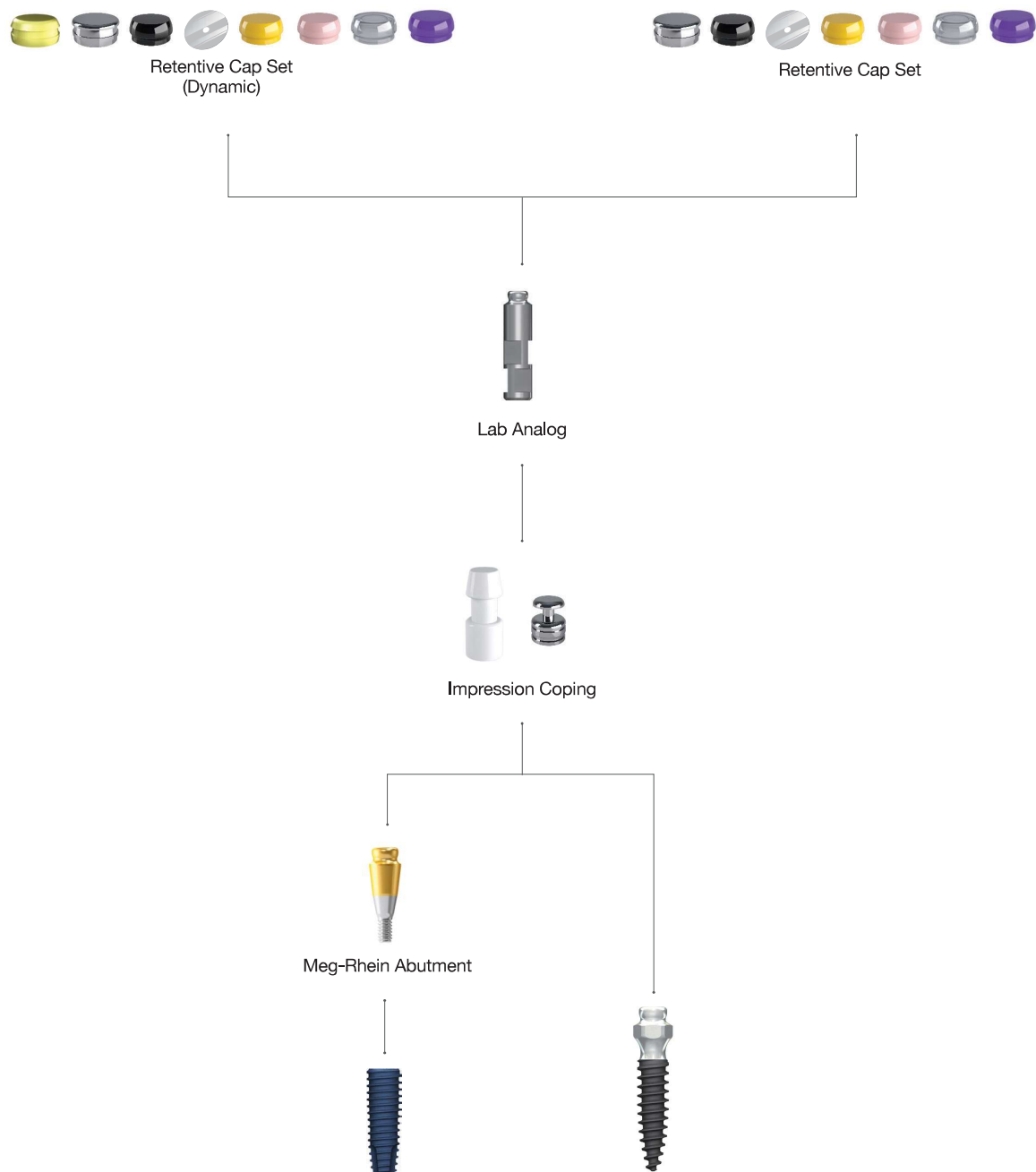
Ratchet Connector

Type	Length(mm)	Ref.C
Short	12	ORCS



III. Overdenture Prosthesis

1. Meg-Rhein Abutment Components



➡ Meg-Rhein Overdenture System

(Refer to the advantage of Meg-Rhein overdenture system on page.156)

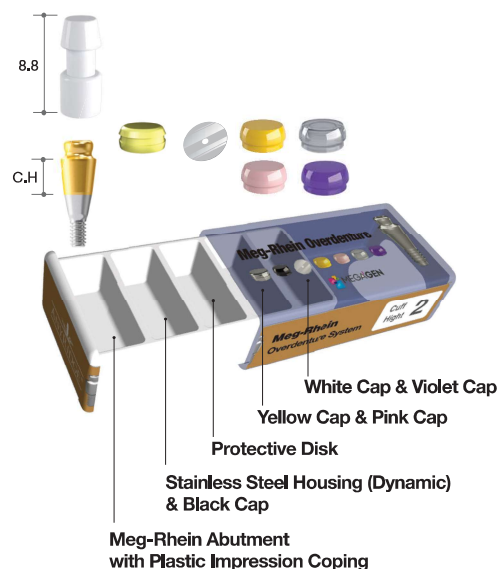
Meg-Rhein Overdenture System

(Dynamic)

- 1 Meg-Rhein Abutment
- 1 Plastic Impression Coping
- 1 Stainless Steel Housing (Dynamic) & Black-Lab
- 1 Protective Disk
- 4 Retentive Caps
(Yellow-0.6kgf, Pink-1.2kgf, White-1.8kgf, Violet-2.7kgf)

- Perfect compatibility with the Rhein83 from Italy.
- Recommend torque : 35Ncm.

Cuff Height (mm)	Ref.C
0	MDR00PA
1.0	MDR01PA
2.0	MDR02PA
3.0	MDR03PA
4.0	MDR04PA
5.0	MDR05PA
6.0	MDR06PA



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 : 35Ncm.

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



➡ Components for Meg-Rhein Abutment (Continued)

Stainless Steel Housing

- 5ea/pack

Ref.C

MHP



Stainless Steel Housing (Dynamic)

- 5ea/pack

Ref.C

THP



Retentive Caps (White)

- White cap(1.8kgf) - For refill (5ea/pack).
- Can be used for more retentive force following pink cap(1.2kgf).

Ref.C

RCWP



Retentive Caps (Violet)

- Violet cap(2.7kgf) - For refill (5ea/pack).
- Can be used for more retentive force following white cap(1.8kgf).

Ref.C

RCVP



Retentive Caps (Pink)

- Pink cap(1.2kgf) - For refill (5ea/pack).

Ref.C

RCPP



Retentive Caps (Yellow)

- Yellow cap(0.6kgf) - For refill (5ea/pack).

Ref.C

RCYP



Retentive Caps (Black)

- For laboratory

Ref.C

RCBP



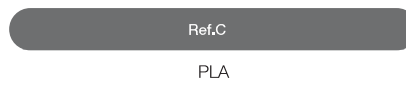
➡ Components for Meg-Rhein Abutment

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.

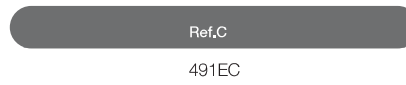


Lab Analog



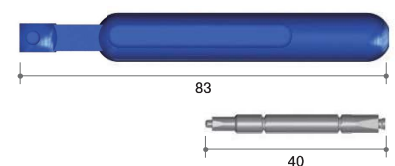
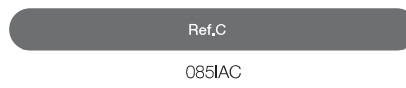
Caps and Clips Extractor tool

- Retentive Cap removal tool.



Retentive Cap Insertion Tool

- Retentive Cap insertion tool.



Clinical Case

➔ Clinical Case

- Courtesy of Dr. Achraf Souayah

Fig 1. Intra-oral initial situation, front view

Fig 2. DSD analysis. The yellow dots 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 labio-lingually 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.

