

PROTEM SYSTEM

Product Catalog

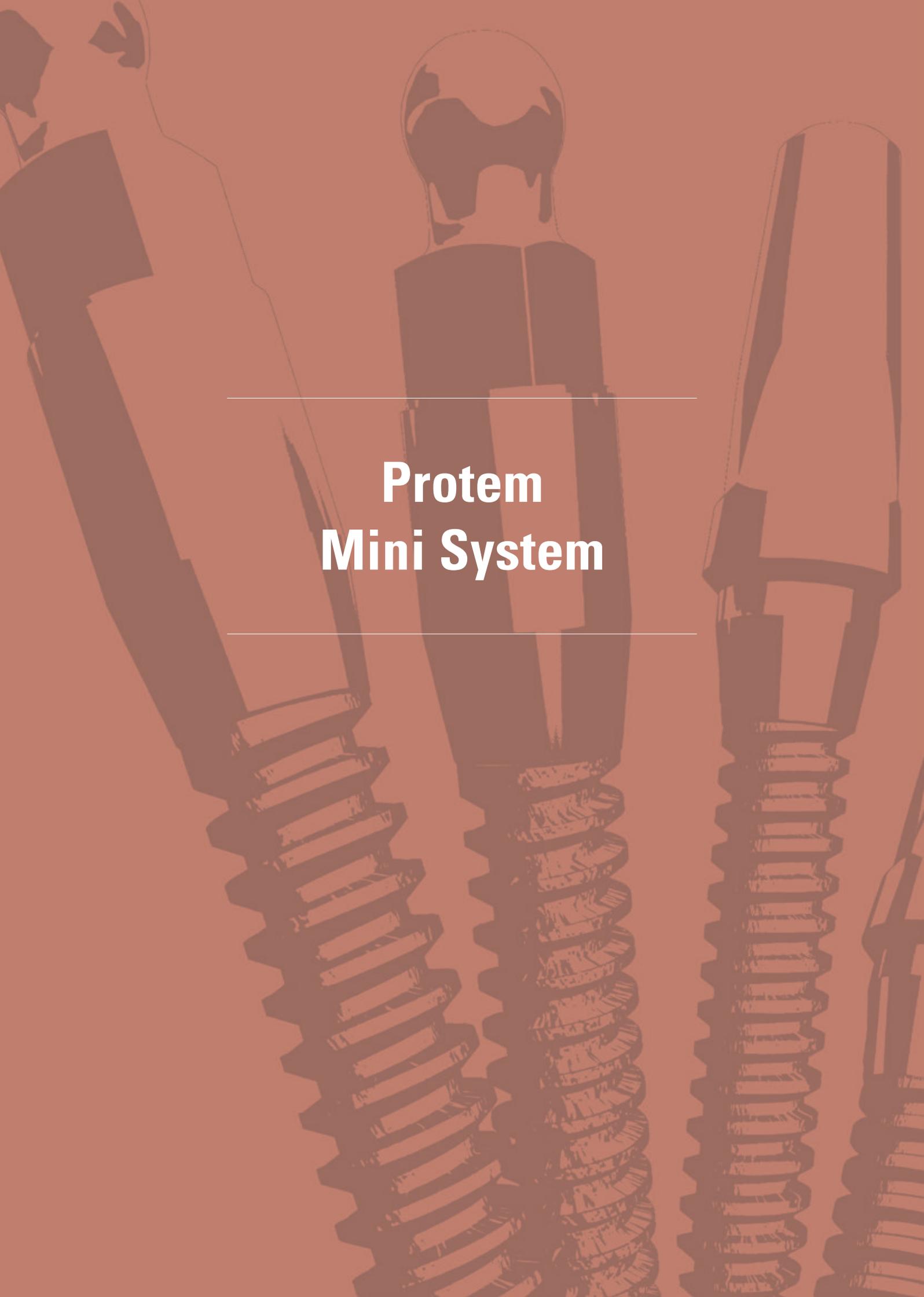
Protem Mini System

- Protem Post Type
- Protem Ball Type
- Protem Kit
- DIONavi. Kit

※ This catalog does not contain all products of DIO Corporation.
Please check with your local sales office order products.

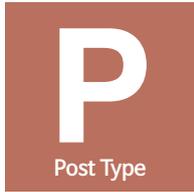
Protem Mini System

Protem Mini System	006
Protem Kit	016
DIOnavi. Kit	022



**Protem
Mini System**

Protem Mini System



008

Post Type
Fixture



Ø2.0 Ø2.5 Ø3.0

Post Type Components

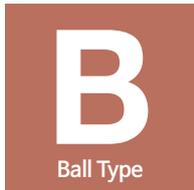
011

Impression
Coping



011

Post Analog



009

Ball Type
Fixture



Ø2.0 Ø2.5 Ø3.0

Ball Type Components

014

Healing Cap



013

Ball Cap



013

O-Ring



013

Ball
Abutment
Analog



Cemented Abutment

014

Cemented
Abutment



Custom Abutment

014

Custom
Abutment



014

Impression
Coping



Abutment Components

015

Stainless
Steel
Housing



015

OT Cap
(Orange)



015

Processing Cap
(Black)



015

Insertion Tool
For Caps



015

Remover Tool
For Caps



Protem Kit

016

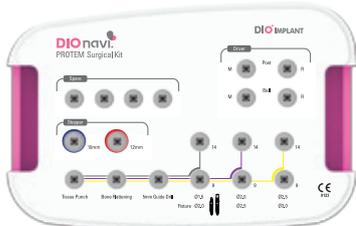
Protem Kit



DIONavi. ProteM Surgical Kit

022

DIONavi. ProteM Surgical Kit



Protem Mini System



Post Type

It is appropriate for narrow space like maxillo-mandibular anterior teeth.

The fixture and abutment are combined as a single body to sufficiently withstand biting pressure.

RBM surface is used for faster osseointegration.

Shape and size of the abutment were optimized for prosthesis without removal.

The body design increases initial fixing force and bone drilling ability for optimized self-tapping.



Ball Type

It is used to attach temporary prosthesis in a fully or partially edentulous patient.

This system can make temporary prosthesis simply using PEEK healing cap and analog.

The body thread design increases initial fixing force and bone drilling ability for optimized self-tapping.

Protem Fixture

Post Type

D $\varnothing 2.0$ | $\varnothing 2.5$ | L 8 | 10 | 12 | 14
D $\varnothing 3.0$ | L 10 | 12 | 14 | 16

RBM

Mini Implant

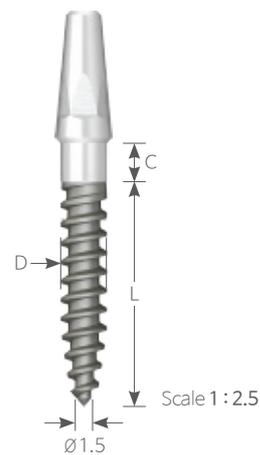
One piece implants used for single stage implant surgery.

Temporary Implant

It is generally used as temporary implant to offer immediate recovery of esthetic element and immediate functionality after implant placement. Retention of temporary prosthesis is increased.

Self Tapping

Thread pitch and shape designed to exert maximum strength. The taper-straight-taper body design allows for self-tapping and $\varnothing 3.0$, cutting edge is applied to the taper body design for self-tapping.



Ball Type

D $\varnothing 2.0$ | $\varnothing 2.5$ | L 10 | 12 | 14
D $\varnothing 3.0$ | L 10 | 12 | 14 | 16

RBM

Mini Implant

One piece implants used for single stage implant surgery which is Ball Type.

O-Ring Attachment

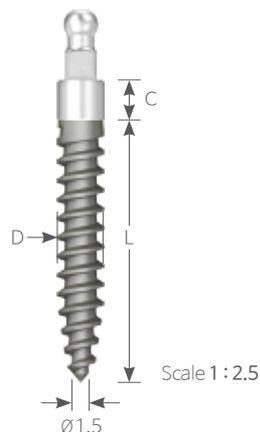
It is often used to increase retention of the denture. An O-Ring attachment is connected to increase retention of the denture.

Cemented Abutment

$\varnothing 3.0$ - Cemented / UCLA abutment can be selected.

Self Tapping

Thread pitch and shape designed to exert maximum strength. The taper-straight-taper body design allows for self-tapping and $\varnothing 3.0$, cutting edge is applied to the taper body design for self-tapping.



Post Type Fixture

P D Ø2.0

Unit mm | Scale 1 : 1.5

Length	8	10	12	14
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Cuff 2	RBM	MFP 20208	MFP 20210	MFP 20212	MFP 20214
4	RBM	MFP 20408	MFP 20410	MFP 20412	MFP 20414

P D Ø2.5

Unit mm | Scale 1 : 1.5

Length	8	10	12	14
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Cuff 2	RBM	MFP 25208	MFP 25210	MFP 25212	MFP 25214
4	RBM	MFP 25408	MFP 25410	MFP 25412	MFP 25414

P D Ø3.0

Unit mm | Scale 1 : 1.5

Length	10	12	14	16
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Cuff 2	RBM	MFP 30210A	MFP 30212A	MFP 30214A	MFP 30216A
4	RBM	MFP 30410A	MFP 30412A	MFP 30414A	MFP 30416A

Ball Type Fixture

B D Ø2.0

Unit mm | Scale 1 : 1.5

Length	10	12	14	16
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Cuff 2	RBM	MFB 20210	MFB 20212	MFB 20214	-
4	RBM	MFB 20410	MFB 20412	MFB 20414	-

B D Ø2.5

Unit mm | Scale 1 : 1.5

Length	10	12	14	16
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Cuff 2	RBM	MFB 25210	MFB 25212	MFB 25214	-
4	RBM	MFB 25410	MFB 25412	MFB 25414	-

B D Ø3.0

Unit mm | Scale 1 : 1.5

Length	10	12	14	16
--------	----	----	----	----



Cuff 2	RBM	MFB 30210A	MFB 30212A	MFB 30214A	MFB 30216A
4	RBM	MFB 30410A	MFB 30412A	MFB 30414A	MFB 30416A

Protem – Post Type

Flow Chart



Post Analog
011P



Impression Coping
011P



Post Type
008P

Post Type Components

Impression Coping



P D Ø3.5 Length 10

Unit mm | Scale 1:2

Fixture Diameter	Ø2.0	Ø2.5	Ø3.0
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MICP 3511

Post Analog

· Protem Implant Post of the mouth can be formed on the work model



P Length 10

Unit mm | Scale 1:1.25

Fixture Size	Ø2.0	Ø2.5	Ø3.0
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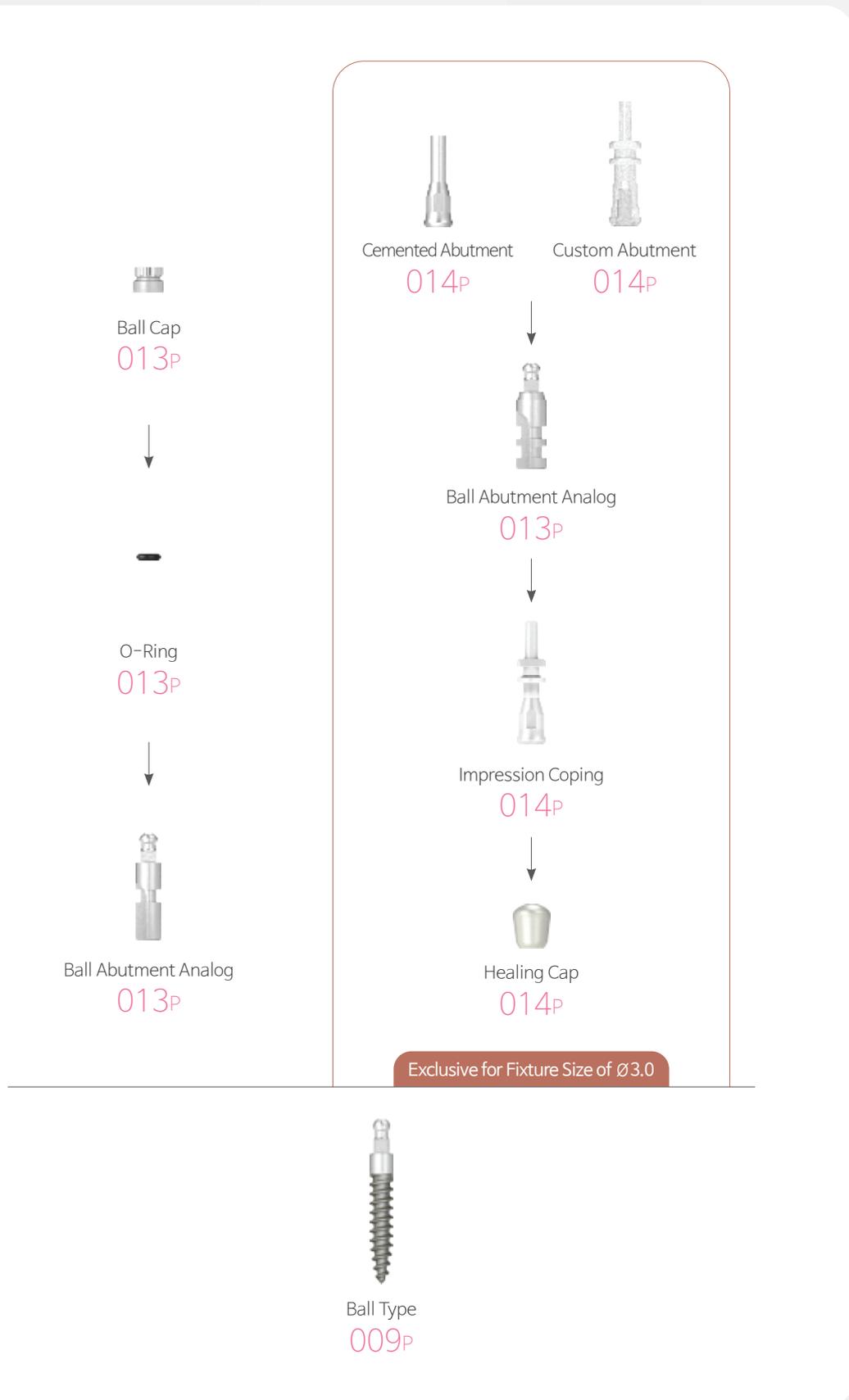
MAP 3010



MAP 3017

Protem – Ball Type

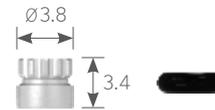
Flow Chart



Ball Type Components

Ball Cap

- Excellent retention and detachment of denture
- Packing Unit : Ball Cap + O-Ring 2 Piece (OR 3401)



B D Ø3.8

Unit mm | Scale 1 : 2

Code

MBC 3803

O-Ring

- Packing Unit : O-Ring 1 Piece



B D Ø3.2

Unit mm | Scale 1 : 2

Code

OR 3401

Ball Abutment Analog

- Protem Implant Ball of the mouth can be formed on the work model

B Length 10

Unit mm | Scale 1 : 1.25

Fixture Size

Ø2.0 Ø2.5

Ø3.0



MAB 2510

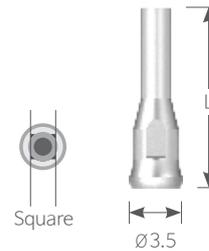


MAB 3014

Ball Type Components

Cemented Abutment

- ▶ Exclusive for fixture size of $\varnothing 3.0$
- ▶ For cement retained prosthesis



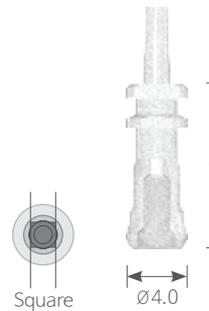
B D $\varnothing 3.5$

Unit mm | Scale 1:2

Length	8	12
	MCB 3508	MCB 3512

Custom Abutment

- ▶ Exclusive for fixture size of $\varnothing 3.0$
- ▶ Can be used when there is limitation on path, esthetics, space etc.
- After the customization, gold or non-precious metal alloy will be casted only.



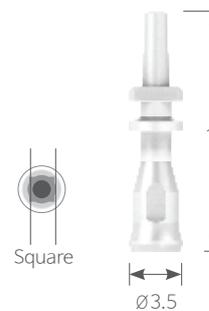
B D $\varnothing 4.0$

Unit mm | Scale 1:2

Code	MCA 4011
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Impression Coping

- ▶ Exclusive for fixture size of $\varnothing 3.0$



B D $\varnothing 3.5$

Unit mm | Scale 1:2

Code	MIC 3511
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Healing Cap

- ▶ Exclusive for fixture size of $\varnothing 3.0$



B D $\varnothing 5.0$

Unit mm | Scale 1:2

Length	6	8
	MHC 5006	MHC 5008

Stainless Steel Housing

- Decreased sized but better retention and stability within denture.
- Packing Unit : 2 Piece



B D Ø3.8

Unit mm | Scale 1 : 1.25

Code	041CAM
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OT Cap Orange

- Excellent retention is obtained with broader contact area compared to O-Ring.
- Packing Unit : 6 Piece
- Caution) There is no separate cap for dental lab.
Replace the cap after making the denture.



B D Ø3.4

Unit mm

Code	060CRM AY
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Processing Cap Black

- ▶ For laboratory use only
- Packing Unit : 6 Piece



B D Ø3.3

Unit mm

Code	043CLM
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Insertion Tool For Caps

- ▶ Used for inserting the cap into the stainless housing.
- Possible to use both tip in a normal and micro situation.
- Packing Unit : Handle + Tip



B

Code	085 IAC
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Remover Tool For Caps

- ▶ Used for removing the cap from the stainless housing
- Possible to use in both normal and micro situation with one tool.



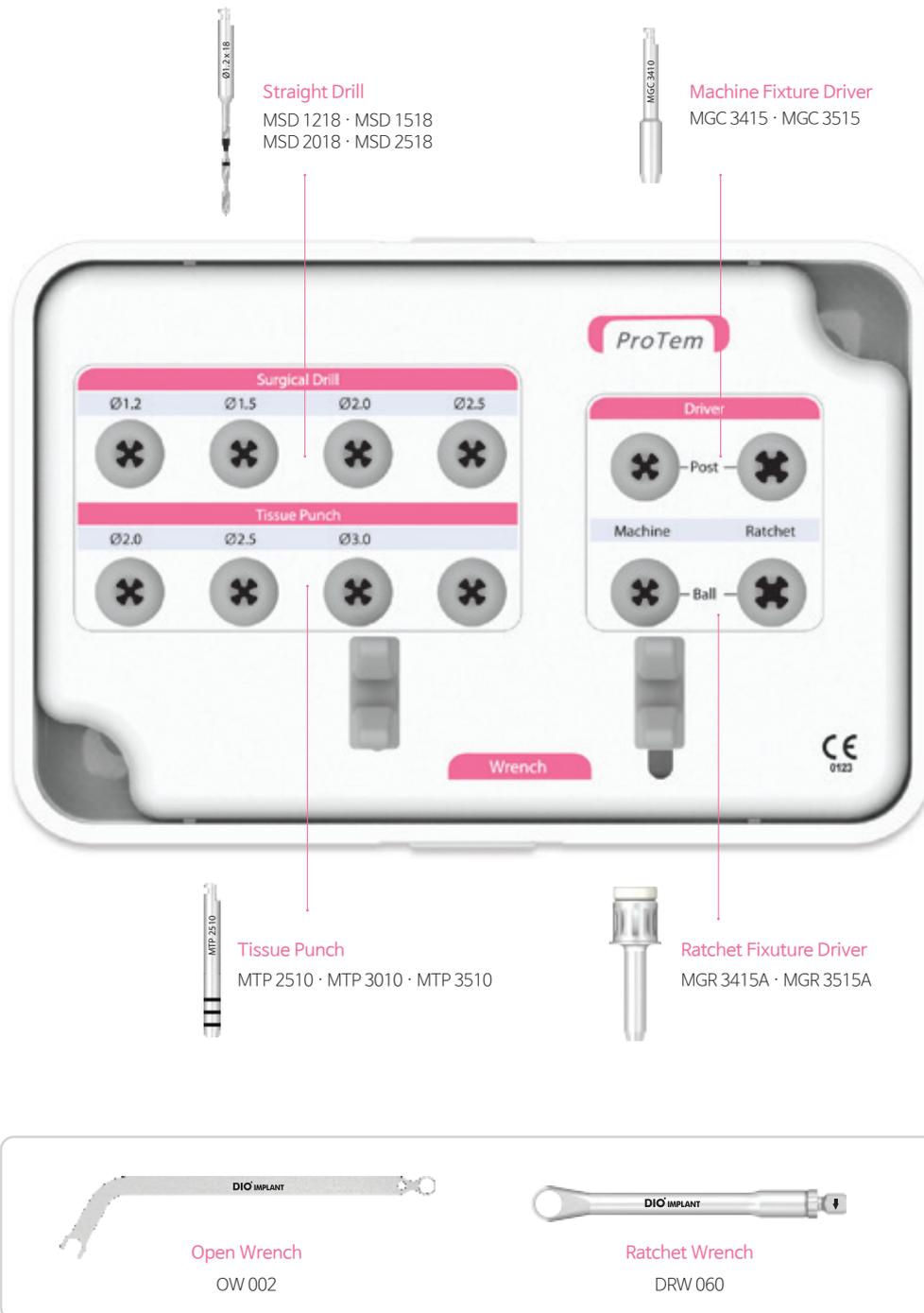
B

Code	091EC
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Protem Kit Kit Code | PRT01

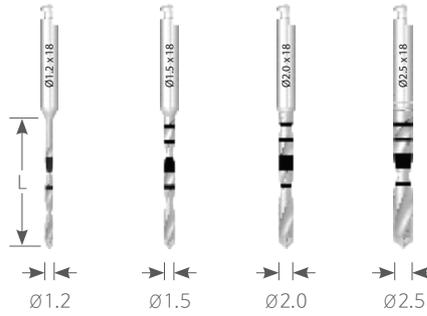
- Kit composed of drill with outstanding cutting force and durability, etc.
- Protem Post&Ball Type \varnothing 2.0 \varnothing 2.5 \varnothing 3.0 Fixture

Unit mm | Drill Scale 1 : 0.9



Surgical Tool

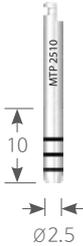
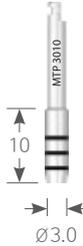
Straight Drill



● Sold separately

K		Unit mm Scale 1 : 1							
Code	MSD 1212	MSD 1512	MSD 2012	MSD 2512	MSD 1218	MSD 1518	MSD 2018	MSD 2518	
Length	12				18				

Tissue Punch

K		Unit mm Scale 1 : 1		
Code	MTP 2510	MTP 3010	MTP 3510	
				

Surgical Tool

Machine Fixture Driver

● Sold separately

K D Ø3.4 Ball Type

Unit mm | Scale 1:1

Code	MGC 3410	MGC 3415	MGC 3420
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K D Ø3.5 Post Type

Code	MGC 3510	MGC 3515	MGC 3520
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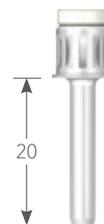
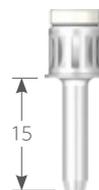
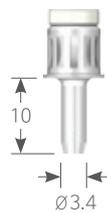
Ratchet Fixture Driver

● Sold separately

K D Ø3.4 Ball Type

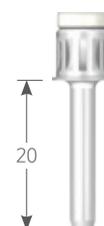
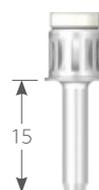
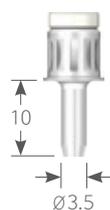
Unit mm | Scale 1:1

Code	MGR 3410A	MGR 3415A	MGR 3420A
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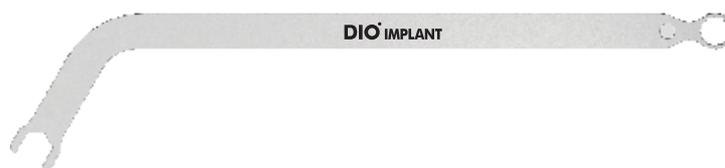


K D Ø3.5 Post Type

Code	MGR 3510A	MGR 3515A	MGR 3520A
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Open Wrench



K

Unit mm | Scale 1:1

Code

OW 002

Ratchet Wrench



K

Unit mm | Scale 1:1

Code

DRW 060

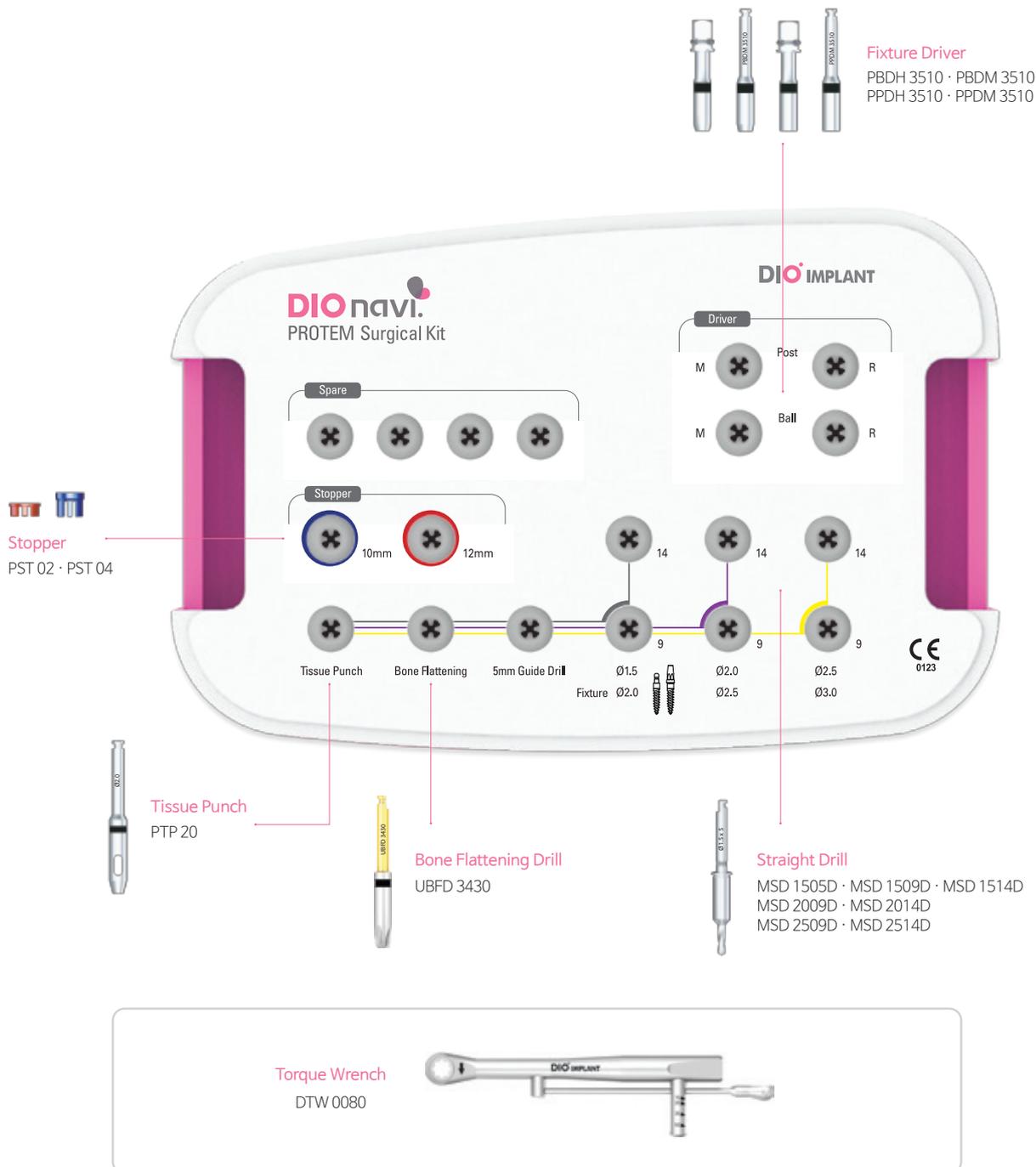
DIO IMPLANT
www.dioimplant.com

DIOnavi. Kit

DIONavi. Protem Surgical Kit Kit Code | PRT02

- Kit composed of drill with outstanding cutting force and durability, etc.
- Protem Post&Ball Type $\varnothing 2.0$ $\varnothing 2.5$ $\varnothing 3.0$ Fixture

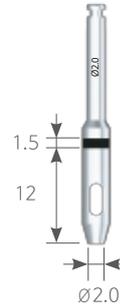
Unit mm | Drill Scale 1 : 0.9



Surgical Tool

Tissue Punch

- Gingiva in the position of implant placement is incised into a round shape, and the inner double blade is used to remove the gum tissue.



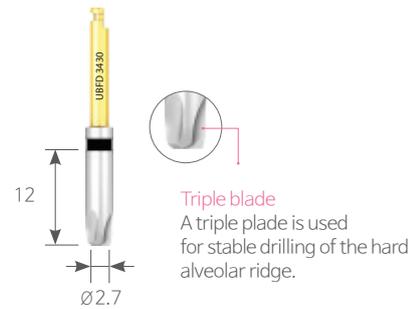
K D Ø2.0

Unit mm | Scale 1 : 2

Code	PTP 20
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Bone Flattening Drill

- Alveolar crest surface is flattened, and soft tissue remaining in the alveolar crest is removed after using the tissue punch.



K D Ø2.7

Unit mm | Scale 1 : 2

Code	UBFD 3430
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Stopper

- This is used to connect to the Ø2.0 straight drill of DIONavi. Protem Surgical Kit to maintain constant depth during surgery.



K

Unit mm | Scale 1 : 2

Code	PST 02	PST 04
Length	2	4
Color	● Red	● Blue

Surgical Tool

Straight Drill

· The drill hole is expanded to the final drilling.

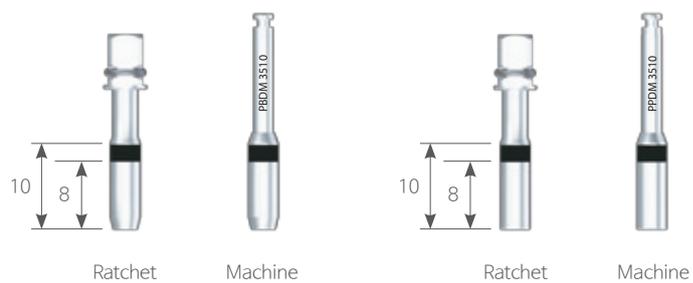


K		Unit mm Scale 1 : 1					
Diameter	Ø1.5		Ø2.0		Ø2.5		
Code	MSD 1505D	MSD 1509D	MSD 1514D	MSD 2009D	MSD 2014D	MSD 2509D	MSD 2514D
Length	5	9	14	9	14	9	14

Fixture Driver

· Implant is placed according to depth of the fixture in advance.

K		Unit mm Scale 1 : 1			
Type	Ball		Post		
Code	PBDH 3510	PBDM 3510	PPDH 3510	PPDM 3510	



Torque Wrench

· To place the fixture using an fixture driver.



K

Unit mm | Scale 1:1

Code

DTW 0080

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