Ver 1.1(CE)

Revision Aug. 2022

PROTEM SYSTEM Product Catalog

Protem Mini System

- Protem Post Type
- Protem Ball Type
- Protem Kit
- DIOnavi. Kit

DIO IMPLANT

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

Protem Mini System

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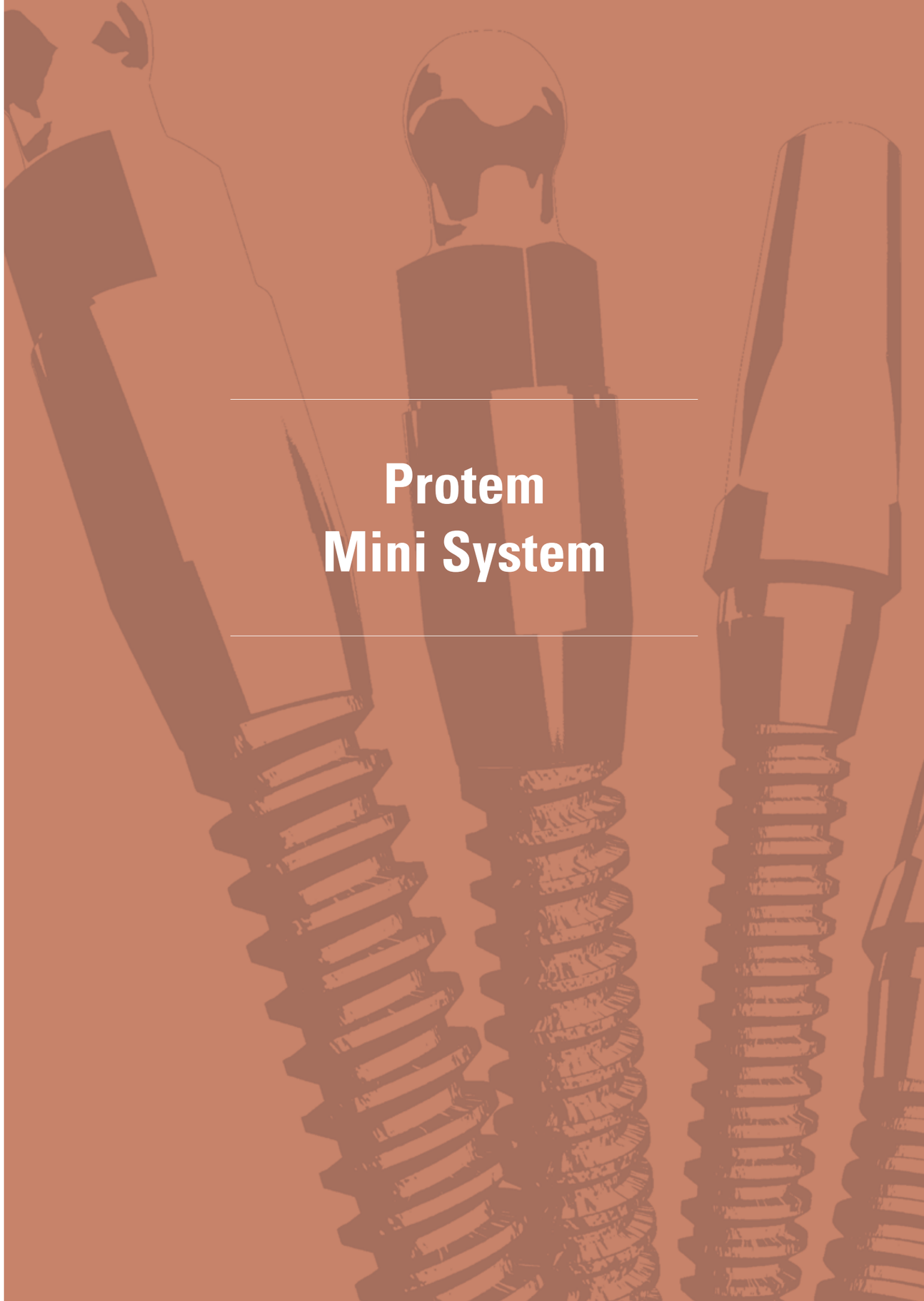
Protem Kit	016
DIOnavi. Kit	022



Protem
Mini System

Protem Mini System

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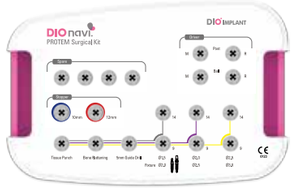
Protem Kit
PRT 00

DIOnavi. Protem Surgical Kit

022
DIOnavi. Protem Surgical Kit
PRT 02



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

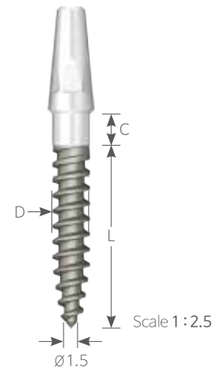
D Ø2.0 ı Ø2.5 ı Ø3.0
L 8 ı 10 ı 12 ı 14 ı 16

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 functionally 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 Ø3.0, cutting edge is applied to the taper body design for self-tapping.



Ball Type

D Ø2.0 ı Ø2.5 ı Ø3.0
L 10 ı 12 ı 14 ı 16

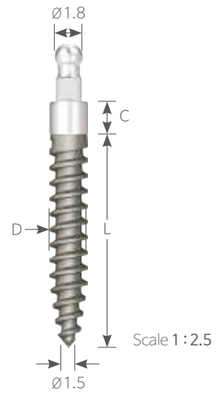
RBM

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
Ø3.0 - 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 Ø3.0, cutting edge is applied to the taper body design for self-tapping.



Post Type Fixture

P D Ø2.0

Unit mm I Scale 1 : 1.5

Length		8	10	12	14
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 I Scale 1 : 1.5

Length		8	10	12	14
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 I Scale 1 : 1.5

Length		10	12	14	16
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 I Scale 1 : 1.5

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

B D Ø2.5

Unit mm I Scale 1 : 1.5

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

B D Ø3.0

Unit mm I 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

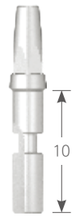
P **D Ø3.5** Length **10**

Unit **mm** I Scale **1 : 2**

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

Post Analog

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



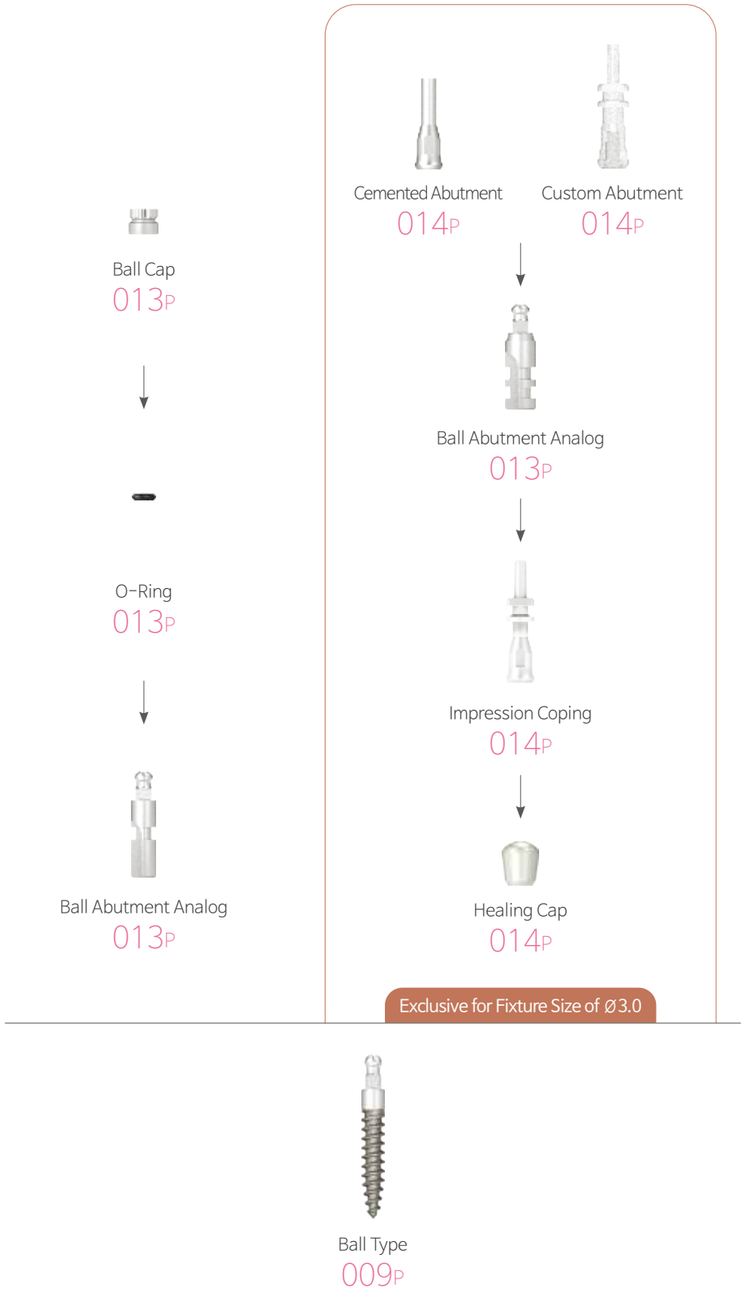
P Length **10**

Unit **mm** I Scale **1 : 1.25**

Fixture Size	Ø2.0	Ø2.5	Ø3.0
	MAP **3010**		MAP **3017**

Protem – Ball Type

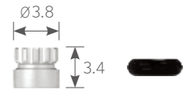
Flow Chart



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 I Scale 1 : 2

Code	MBC **3803**

O-Ring

· Packing Unit : O-Ring 1 Piece

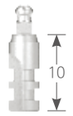
B **D Ø3.2** Unit mm I Scale 1 : 2

Code	OR **3401**

Ball Abutment Analog

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

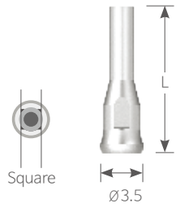
B Length **10** Unit mm I Scale 1 : 1.25

Fixture Size	Ø2.0 Ø2.5	Ø3.0
	MAB **2510**	 MAB **3014**

Ball Type Components

Cemented Abutment

▸Exclusive for fixture size of Ø3.0
▸For cement retained prosthesis

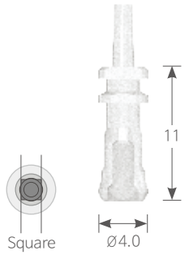


B **D Ø3.5** Unit mm I Scale 1 : 2

Length	8	12
	MCB **3508**	MCB **3512**

Custom Abutment

▸Exclusive for fixture size of Ø3.0
▸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.

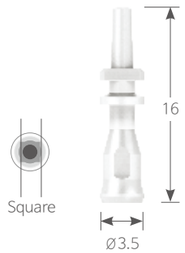


B **D Ø4.0** Unit mm I Scale 1 : 2

Code	MCA **4011**

Impression Coping

▸Exclusive for fixture size of Ø3.0



B **D Ø3.5** Unit mm I Scale 1 : 2

Code	MIC **3511**

Healing Cap

▸Exclusive for fixture size of Ø3.0

B **D Ø5.0** Unit mm I Scale 1 : 2

Length	6	8
	MHC **5006**	MHC **5008**

Stainless Steel Housing

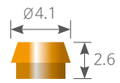
· Decreased sized but better retention and stability within denture.
· Packing Unit : 2 Piece

B **D Ø3.8** Unit mm I Scale 1 : 1.25

Code	041CAM

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	060CRMAY

Processing Cap Black

▸For laboratory use only
· Packing Unit : 6 Piece

B **D Ø3.3** Unit mm

Code	043CLM

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	085IAC

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

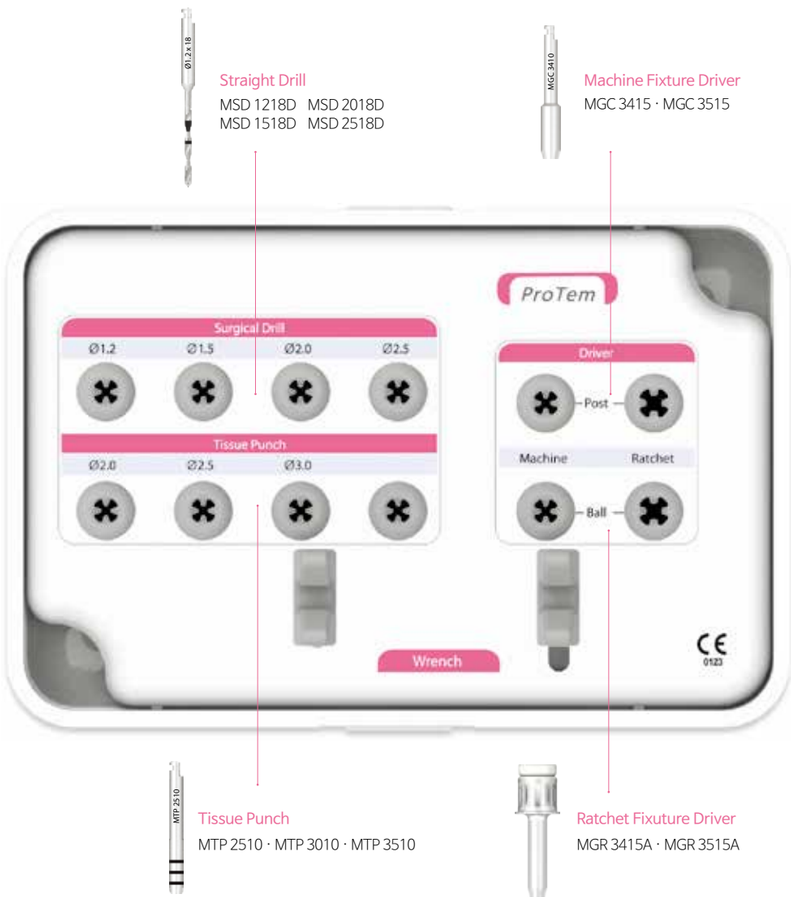
Code	091EC

Protem Kit

Kit Code | PRT 00

· Kit composed of drill with outstanding cutting force and durability, etc.
· Protem Post&Ball Type Ø2.0 Ø2.5 Ø3.0 Fixture

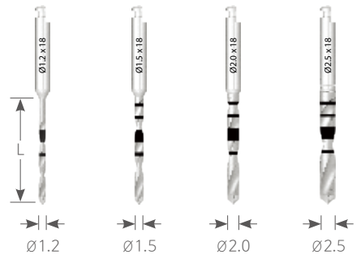
Unit mm | Drill Scale 1 : 0.9



Torque Wrench
DTW 0060

Surgical Tool

Straight Drill



● Sold separately

K

Unit mm | Scale 1 : 1

Code	MSD 1212	MSD 1512	MSD 2012	MSD 2512	MSD 1218D	MSD 1518D	MSD 2018D	MSD 2518D
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 I Scale 1 : 1

Code	MGC **3410**	MGC **3415**	MGC **3420**

K **D Ø3.5** Post Type

Code	MGC **3510**	MGC **3515**	MGC **3520**

Ratchet Fixture Driver

● Sold separately

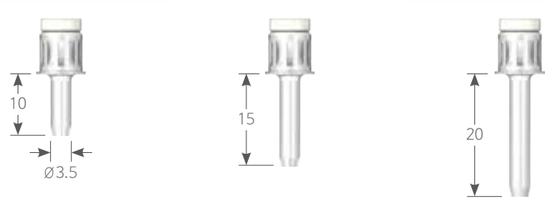
K **D Ø3.4** Ball Type

Unit mm I Scale 1 : 1

Code	MGR **3410A**	MGR **3415A**	MGR **3420A**

K **D Ø3.5** Post Type

Code	MGR **3510A**	MGR **3515A**	MGR **3520A**



Torque Wrench

K

Unit mm I Scale 1 : 1

Code	DTW **0060**

DIO IMPLANT

www.dioimplant.com

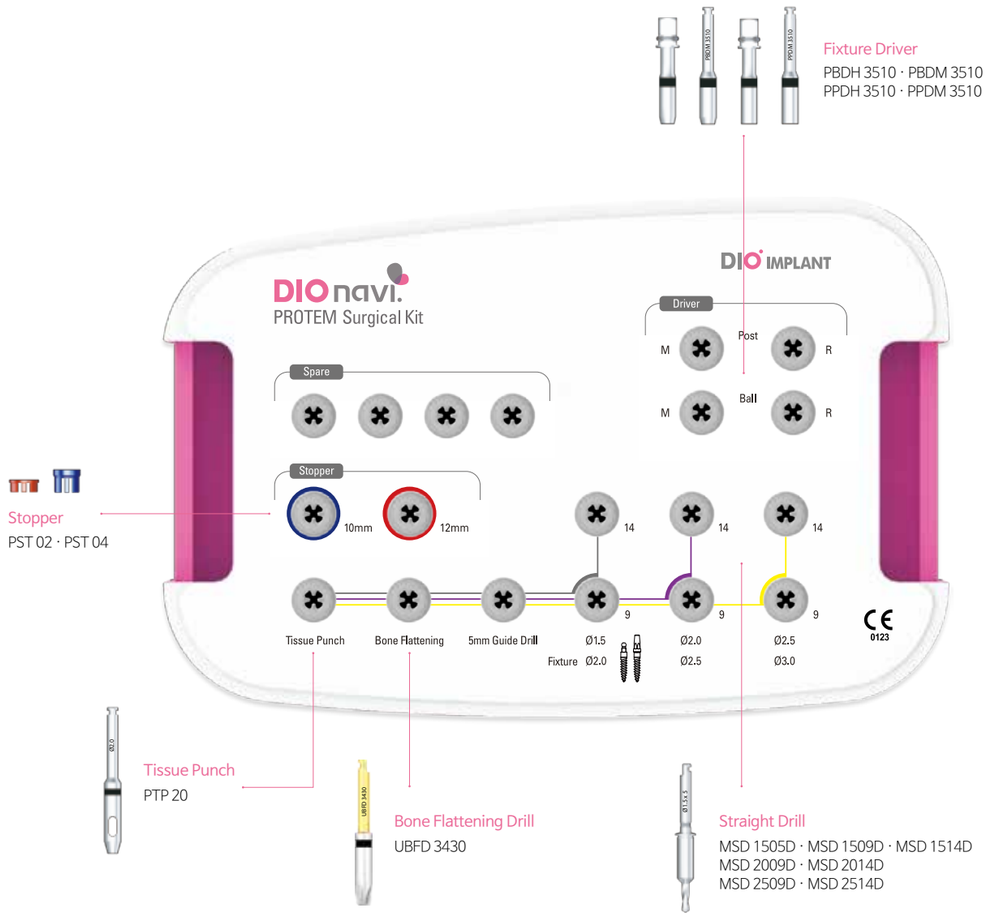
DIOnavi. Kit

DIOnavi. Protem Surgical Kit

Kit Code I PRT02

· Kit composed of drill with outstanding cutting force and durability, etc.
· Protem Post&Ball Type Ø2.0 Ø2.5 Ø3.0 Fixture

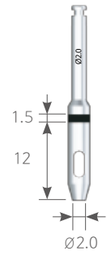
Unit mm I Drill Scale 1 : 0.9



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.



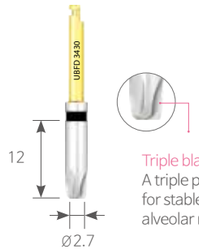
K D Ø2.0

Unit mm I Scale 1 : 2

Code	PTP 20

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 I Scale 1 : 2

Code	UBFD 3430

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 I 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 I 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

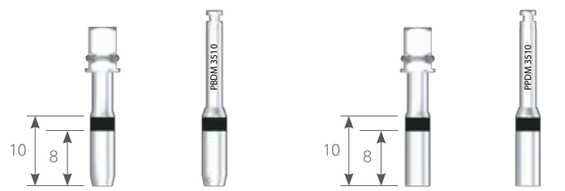
Fixture Driver

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

K

Unit mm I Scale 1 : 1

Type	Ball		Post	
Code	PBDH **3510**	PBDM **3510**	PPDH **3510**	PPDM **3510**



Ratchet Machine Ratchet Machine

Torque Wrench

· To place the fixture using an fixture driver.

K

Unit mm I Scale 1 : 1

Code	DTW **0080**

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