

# Dentium Overdenture System

Product Catalog & Manual



**Dentium**  
For Dentists By Dentists

**Dentium**  
For Dentists By Dentists

# Overdenture System

Mini Ball / Positioner Attachment



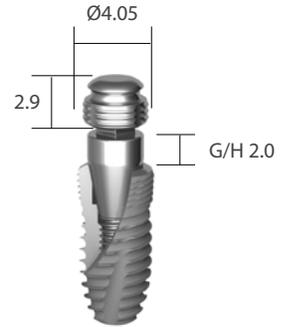
# Mini Ball Attachment

Unit: mm, Scale 1 : 1.5 / mm

## Tilting Angle



Up to  $\pm 15$  degrees of angle tilting freedom for pathway of implant.



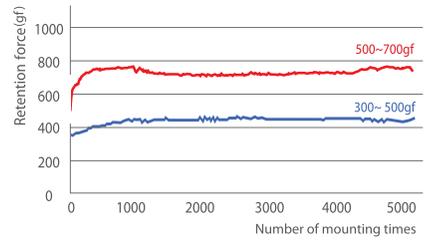
BPF3, BAB352018 and FXI 4510P

IMPLANTUM II

## Mini Ball



- Mini ball size ( $\varnothing 1.8$ )
- Mini o-ring type female socket
- Minimal-size female socket
- Mini o-ring are replaceable



## Female Socket

Art. No	Art. No
BPF3 (300~500gf)	
BPF2 (500~700gf)	

## Female Socket + Mini o-ring



## Socket Spacer

Art. No.	Art. No.
	GBIC3L
	GBIC2L

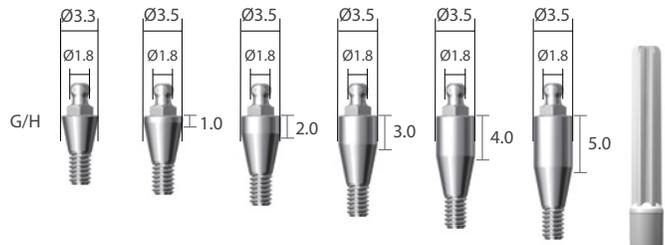


# Mini Ball Attachment

Unit: mm, Scale 1 : 1.5 / mm

## Mini Ball Abutment **IMPLANTIUM IMPLANTIUM II SuperLrúne**

G/H	Art. No.
0	BAB 35 0018
1.0	BAB 35 1018
2.0	BAB 35 2018
3.0	BAB 35 3018
4.0	BAB 35 4018
5.0	BAB 35 5018



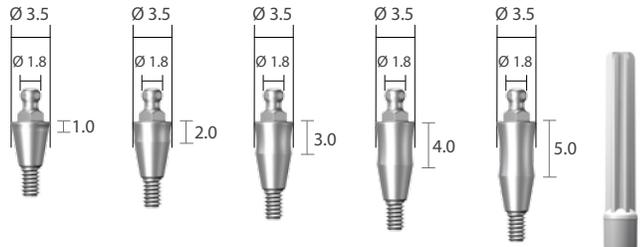
## Mini Ball Abutment **SrúpleLrúneII**

Application	Art. No.
Ø4.8	SOBAB 48 00
Ø6.5	SOBAB 65 00



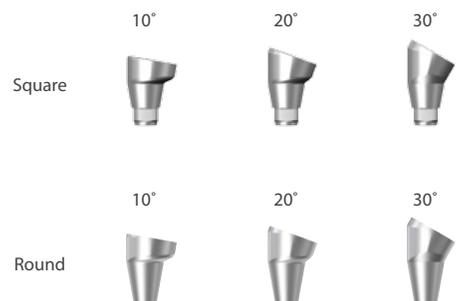
## Mini Ball Abutment **NR Lrúne**

G/H	Art. No.
1.0	GBAB 43 10
2.0	GBAB 43 20
3.0	GBAB 43 30
4.0	GBAB 43 40
5.0	GBAB 43 50



## Angled Mini Ball Abutment **NR Lrúne**

Diameter	Angle	Art. No.
Ø4.3	10°	GAOB 43 20 10 AS
Ø4.3	10°	GAOB 43 20 10 AR
Ø4.3	20°	GAOB 43 20 20 AS
Ø4.3	20°	GAOB 43 20 20 AR
Ø4.3	30°	GAOB 43 20 30 AS
Ø4.3	30°	GAOB 43 20 30 AR



# Mini Ball Attachment

## Angled Mini Ball Cap **NR Líne**

G/H	Art. No.
1.0	GAOB 50 10 A
2.0	GAOB 50 20 A
3.0	GAOB 50 30 A



## Angled Overdenture Screw **NR Líne**

GAOSC 16 19
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## Mini Ball Impression Coping

GICA
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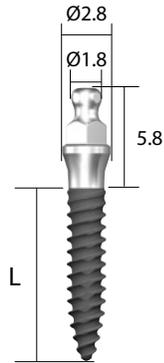
## Mini Ball Analog

BANL
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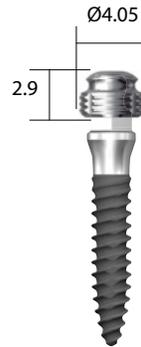


# Mini Ball Attachment

Unit: mm, Scale 1 : 1.5 / mm



IBS232010  
*Slim Line*



BPF3 and IBS232010  
*Slim Line*

L	Body Ø 2.3	Body Ø 2.8	Body Ø 3.3	Body Ø 3.8
06	IBS 23 20 06	IBS 28 20 06	IBS 33 20 06	IBS 38 20 06
08	IBS 23 20 08	IBS 28 20 08	IBS 33 20 08	IBS 38 20 08
10	IBS 23 20 10	IBS 28 20 10	IBS 33 20 10	IBS 38 20 10
12	IBS 23 20 12	IBS 28 20 12	IBS 33 20 12	IBS 38 20 12
14	IBS 23 20 14	IBS 28 20 14	IBS 33 20 14	IBS 38 20 14

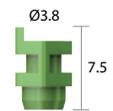
## Comfort Cap

ICC



## Mini Ball Impression Coping

GICA



## Analog

IANF 20 15



## Female Socket

Art. No.

GBIC3L  
GBIC2L



## Female Socket

Art. No.

BPF3 (300~500gf)  
BPF2 (500~700gf)

## Female Socket + Mini o-ring



(300~500gf)



(500~700gf)

# Positioner

Unit: mm, Scale 1 : 1.5 / mm

For multiple-unit and full-arch restorations

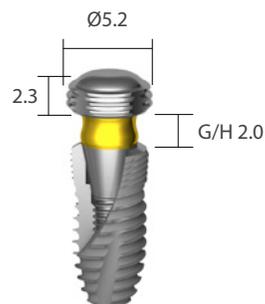
Self Aligning: Self aligning mechanism allows easy and convenient denture placement

Tilting Angle: Tilting Type ( $\pm 10^\circ$ ) / Non Tilting Type ( $\pm 5^\circ$ )

Four Different Retention Options: 100gf, 300gf, 500gf and 1,000gf

## Process to make overdenture using the Positioner

1. Non-tilting plastic socket having  $\pm 5^\circ$  is recommended as a standard assembly
2. Make denture based on the white plastic socket having 100gf
3. If the path is not parallel (more than  $\pm 5^\circ$ ), use the Tilting Type plastic socket having  $\pm 10^\circ$
4. Select and use the plastic socket (300gf, 500gf, or 1,000gf) based on the desired retention force for the patient



FSMH, PAB3520 and FXI 4510P

IMPLANTUM II

## Positioner Socket Set

Art. No.	FSMHS (Tilting Type $\pm 10^\circ$ )
	FSMHSN (Non Tilting Type $\pm 5^\circ$ )



## Positioner Metal Socket

Art. No.	FSMH
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## Positioner Plastic Socket

Application	Art. No.
Tilting Type $\pm 10^\circ$	MSHP (Blue)
	MSMP (Orange)
	MSLP (Ivory)
	MSOP (White)
Non Tilting Type $\pm 5^\circ$	MSHPN (Blue)
	MSMPN (Orange)
	MSLPN (Ivory)
	MSOP (White)



## Positioner Block Out Spacer

Art. No.	PBOS
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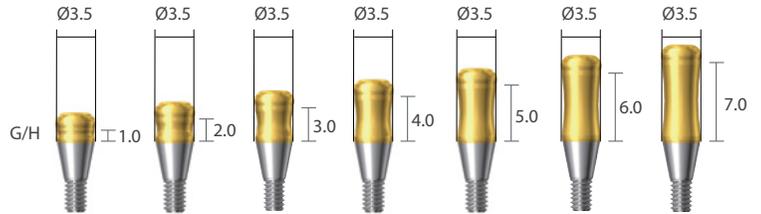


# Positioner

Unit: mm, Scale 1 : 1.5 / mm

## Positioner Abutment Ø3.5 IMPLANTIUM IMPLANTIUM II SuperLine

G/H	Art. No.
1.0	PAB 35 10
2.0	PAB 35 20
3.0	PAB 35 30
4.0	PAB 35 40
5.0	PAB 35 50
6.0	PAB 35 60
7.0	PAB 35 70



## Positioner Abutment SimpleLine II

Application	G/H	Art. No.
Ø4.8	0	SOPAB 48 00
	1.0	SOPAB 48 10
Ø6.5	0	SOPAB 65 00
	1.0	SOPAB 65 10



## Positioner Impression Coping

Art. No.	PIC



## Positioner Analog

Art. No.	PAN



## Positioner Core Tool

Art. No.	XPCT



Unit: mm, Scale 1 : 0.5 / mm

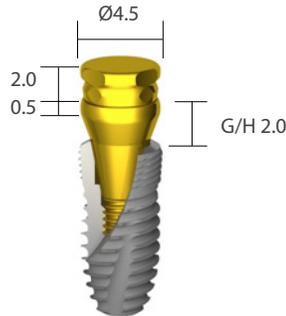
# Overdenture System

Magnetic Attachment



# Magnetic Attachment [Dome Type]

Unit: mm, Scale 1 : 1.5 / mm



MGT4520D, MKP4520D and FXI 4510P

IMPLANTUM II

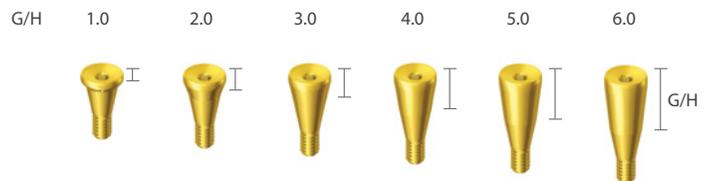
## Magnetic Assay

Application	Diameter	H	Art. No.
MKP45D	Ø4.5	2.0	MGT 45 20 D
MKP55D	Ø5.5	2.0	MGT 55 20 D



## Implant Keeper Diameter Ø4.5

G/H	Art. No.
1.0	MKP 45 10 D
2.0	MKP 45 20 D
3.0	MKP 45 30 D
4.0	MKP 45 40 D
5.0	MKP 45 50 D
6.0	MKP 45 60 D



## Implant Keeper Diameter Ø5.5

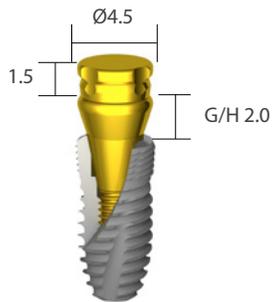
G/H	Art. No.
1.0	MKP 55 10 D
2.0	MKP 55 20 D
3.0	MKP 55 30 D
4.0	MKP 55 40 D
5.0	MKP 55 50 D
6.0	MKP 55 60 D



\* Note: 1) It is recommended to keep the torque level at 25~30 N-cm to tighten the magnetic abutment with the fixture.

# Magnetic Attachment [Flat Type]

Unit: mm, Scale 1 : 1.5 / mm



MGT4515, MKP4520 and FXI 4510P

IMPLANTIUM II

## Magnetic Assay

Application	Diameter	H	Art. No.
MKP45	Ø4.5	1.5	MGT 45 15
	Ø4.5	2.0	MGT 45 20
MKP55	Ø5.5	1.5	MGT 55 15
	Ø5.5	2.0	MGT 55 20



## Implant Keeper Diameter Ø4.5

G/H	Art. No.
1.0	MKP 45 10
2.0	MKP 45 20
3.0	MKP 45 30
4.0	MKP 45 40
5.0	MKP 45 50
6.0	MKP 45 60



## Implant Keeper Diameter Ø5.5

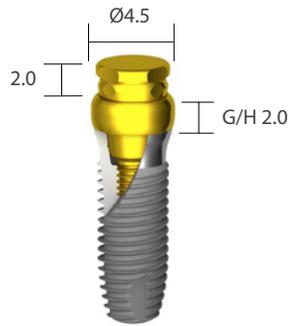
G/H	Art. No.
1.0	MKP 55 10
2.0	MKP 55 20
3.0	MKP 55 30
4.0	MKP 55 40
5.0	MKP 55 50
6.0	MKP 55 60



\* Note: 1) It is recommended to keep the torque level at 25~30 N·cm to tighten the magnetic abutment with the fixture.

# Magnetic Attachment [Dome Type]

Unit: mm, Scale 1: 1.5 / mm

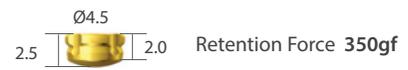


MGT4520D, SOMKP4820D and SOFX484310R

**SimpleLineII**

## Magnetic Assay

Application	Art. No.
Ø4.8	MGT 45 20 D
Ø6.5	MGT 55 20 D



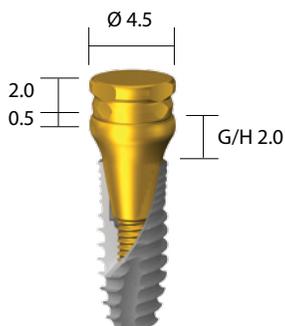
## Implant Keeper

Application	G/H	Art. No.
Ø4.8	2.0	SOMKP 48 20 D
	4.0	SOMKP 48 40 D
Ø6.5	2.0	SOMKP 65 20 D
	4.0	SOMKP 65 40 D



# Magnetic Attachment [Dome Type]

Unit: mm, Scale 1 : 1.5 / mm



MGT4520D and GMK4520D and GFX3609S

NR Line

## Magnetic Assay

Application	Diameter	H	Art. No.
MKP45D	Ø4.5	2.0	MGT 45 20 D
MKP55D	Ø5.5	2.0	MGT 55 20 D



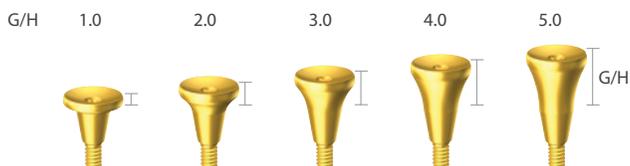
## Implant Keeper Diameter Ø 4.5

G/H	Art. No.
1.0	GMK 45 10 D
2.0	GMK 45 20 D
3.0	GMK 45 30 D
4.0	GMK 45 40 D
5.0	GMK 45 50 D



## Implant Keeper Diameter Ø 5.5

G/H	Art. No.
1.0	GMK 55 10 D
2.0	GMK 55 20 D
3.0	GMK 55 30 D
4.0	GMK 55 40 D
5.0	GMK 55 50 D



\*Note: 1) The NR Line fixture with size of Ø3.1 straight type is not recommended to use with the screw abutment. Should they be used together, abutment height after assembly will become 1.0mm longer than the other sized fixtures.  
 2) It is recommended to keep the torque level at 20 N-cm to tighten the magnetic abutment with fixture.

# Overdenture System

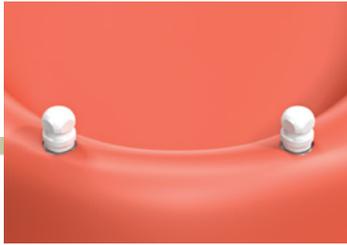
Prosthesis Manual

# Mini Ball Attachment

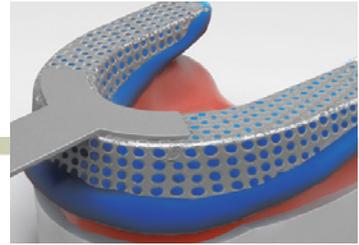
## Chairside



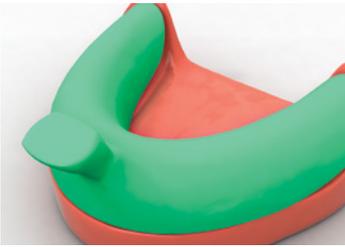
Connect the mini ball abutment onto the fixture.



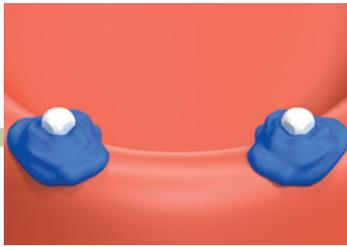
Affix the impression coping on the mini ball abutment.



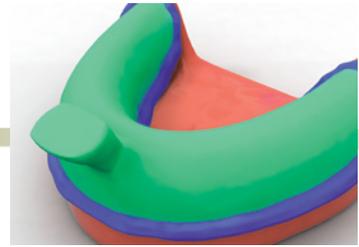
Take Impression for the making of individual tray.



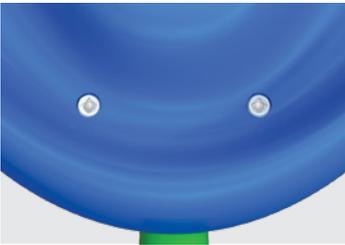
Produce the individual tray for denture impression.



Apply the impression material.



Take the final impression with the prepared individual tray.



After the impression material is set, discard the individual tray.

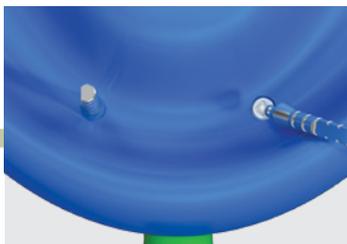


Image of the final impression (with impression coping).

## Lab Side



Mini ball Analog.



Insert analogs into the embedded impression coping.



Create the master model.



Socket spacer.



Fabrication of denture with conventional method.

# Mini Ball Attachment

## Case 1



Secure spaces for the female sockets.

## Chairside



Connect the female sockets to the mini ball abutments in the intra-oral.



Apply small amount of the resin into the secured area.



Position the denture in the oral cavity and wait until the resin is completely set.



Female sockets are placed in the denture.



After polishing and the overdenture is complete.

## Case 2



Create holes for placement of female sockets.

## Chairside



Connect the female sockets to the mini ball abutments in the intra-oral.



Examine the interference between inner surface of the holes and the female sockets.



Apply the resin into the holes and wait until it is completely set.



Placement the female sockets.



Apply resin around the female sockets.



After polishing and the overdenture is complete.

NR Lrñe

# Angled Mini Ball Attachment

## Case 1

## Chairside



Secure spaces for the female sockets.



Connect the female sockets to the Angled mini ball abutments in the intra-oral.



Apply small amount of the resin into the secured area.



Position the denture in the oral cavity and wait until the resin is completely set.



Female sockets are placed in the denture.



After polishing and the overdenture is complete.

NR Lrñe

# Angled Mini Ball Attachment

## Case 2

## Chairside



Create holes for placement of female sockets.



Connect the female sockets to the angled mini ball abutments in the intra-oral.



Examine the interference between inner surface of the holes and the female sockets.



Apply the resin into the holes and wait until it is completely set.



Placement the female sockets.



Apply resin around the female sockets.



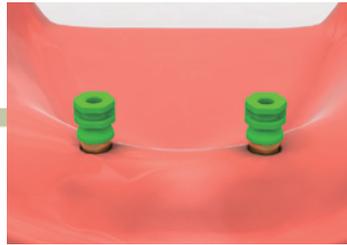
After polishing and the overdenture is complete.

# Positioner

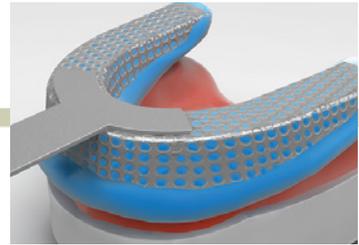
## Chairside



Connect the Positioner Abutment onto the fixture.



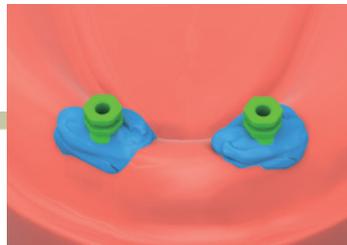
Affix the impression coping on the Positioner Abutment.



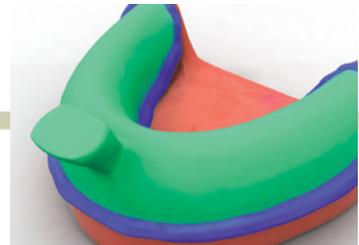
Take impression for the production of the individual tray



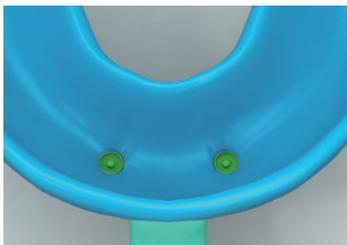
Produce the individual tray for denture impression.



After connecting the Positioner Abutment and the impression coping together, apply the impression material.



Take the final impression with the prepared individual tray.



After the impression material is set, discard the individual tray.

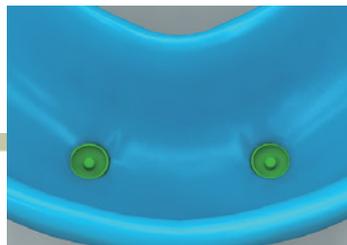
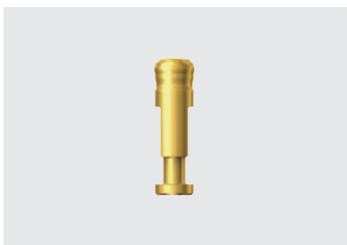
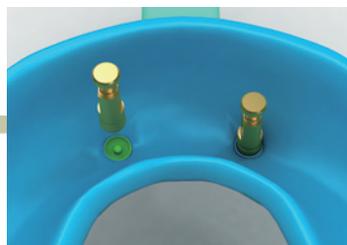


Image of the set final impression (with impression coping).

## Lab side



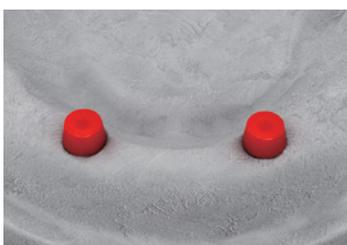
Positioner Analog.



Insert the Positioner Analog into the embedded impression coping.



Create the master model.



"Block out" procedure to achieve the space required for the metal socket.



Fabrication of the denture with conventional method.

# Positioner

## Case 1



Secure spaces for the female sockets.



Apply a small amount of resin into the space created for the metal socket.



Remove the denture after the resin is fully set. Image of the denture with the metal socket.

## Chairside



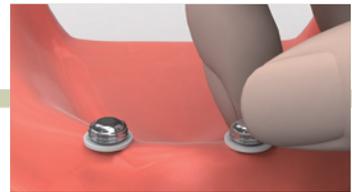
Place the "block out spacer" on the Positioner Abutment in the patient's mouth.



Position the denture in the mouth and wait until the resin is completely set.



Remove the block out spacer from the patient's mouth.



Connect the metal socket onto the Positioner Abutment.



Remove the white plastic socket (100gf) using the positioner tool and replace with a regular plastic of a desired retention force (300, 500 or 1000gf).



Polish and the overdenture is complete.

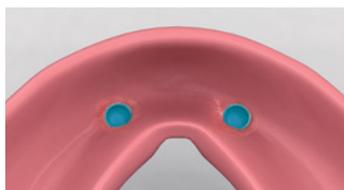
## Case 2



Create holes for the placement of the metal sockets.



Examine for interference between the inner surface of the holes and the female sockets.



Apply additional resin around the metal socket where there is a shortage of resin.

## Chairside



Place the "block out spacer" on the Positioner Abutment in the intraoral.



Apply the resin into the holes and wait until it is completely set.



Apply resin around the metal socket.



Connect the metal socket onto the Positioner Abutment.



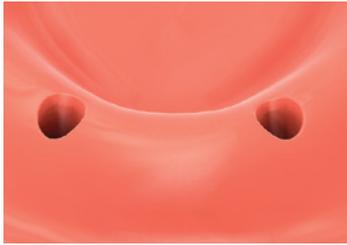
Remove the white plastic socket (100gf) using the positioner tool and replace with a regular plastic of a desired retention force (300, 500 or 1000gf).



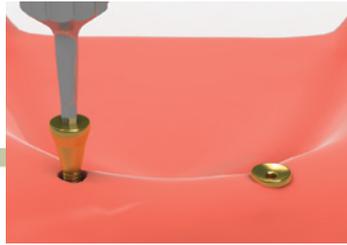
Polish and the overdenture is complete.

# Magnetic Attachment

## Chairside



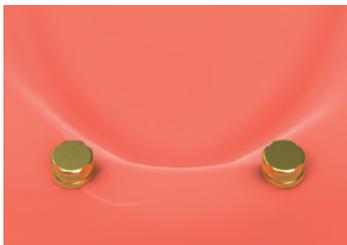
After healing abutment removal.



Connect implant keeper with fixture and tighten it with 20N-cm.



Implant keepers connected with the fixtures.



Position the magnetic assay on the implant keeper.



Secure spaces for the magnetic assays.



Examine the interference between inner divot of the denture and the magnets.

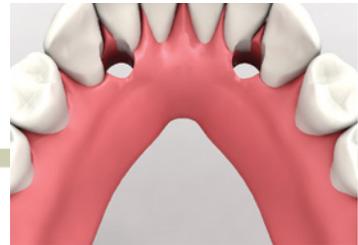
## Case 1



Apply resin on the divot of the denture's inner surface.



Position the denture into the mouth and wait until the resin is completely set.



Magnetic assays are placed in the denture.



Apply some of resin around the magnetic assays.



After the resin is completely set, remove excess. Polish and the overdenture is complete.

IMPLANTIUM IMPLANTIUM II *Super*Líne *Símple*Líne II NR Líne

# Magnetic Attachment

## Case 2



Create holes for the placement of the magnets.



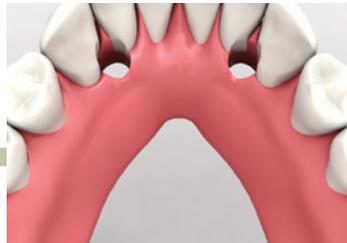
Examine the interference between inner surface of the holes and the magnets.



Position the denture in the mouth and apply small amount of resin into the hole.



Wait until the resin is completely set.



After setting, remove denture from the mouth.



Add the resin around the magnets.



Polish and the overdenture is complete.

# Overdenture System

**Dentium**  
For Dentists By Dentists

# Dentium Overdenture System

## Product Catalog & Manual

**Dentium**  
For Dentists By Dentists

Specifications are subject to change without prior notice.  
Some products listed in this catalog are not available in the market due to pending approval.

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OSPCM-1506 [Rev.1]