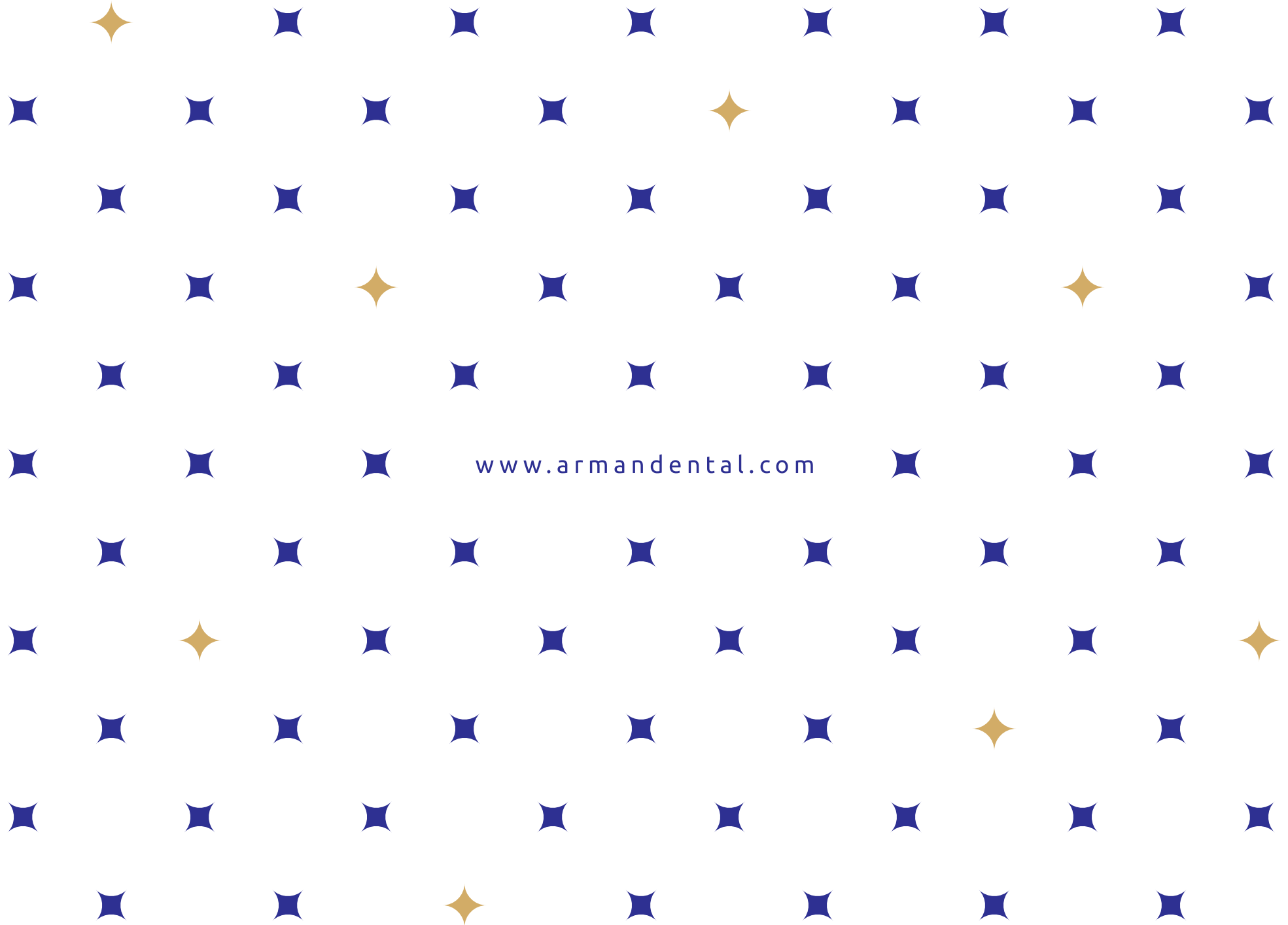
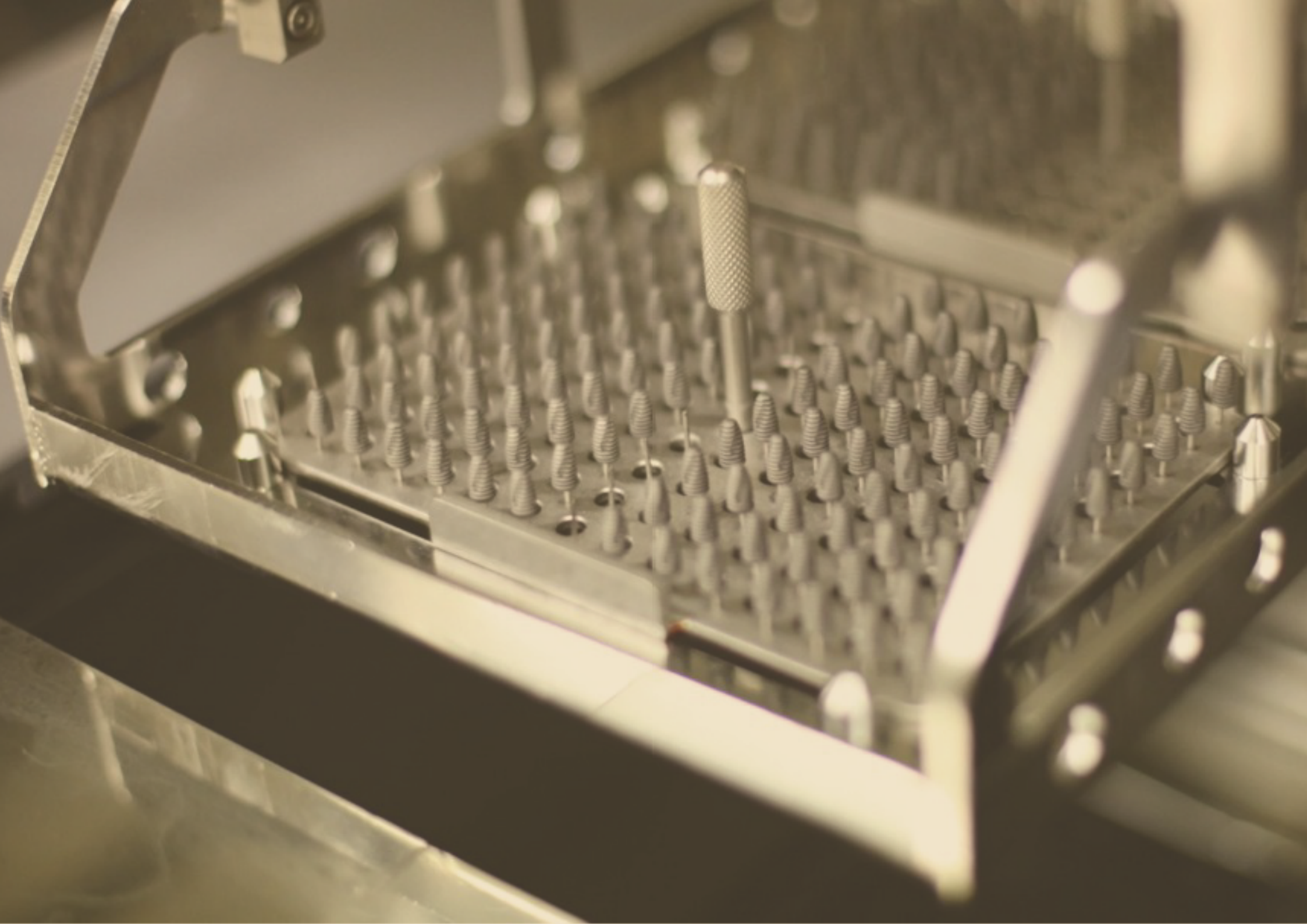


ARMAN  
Dental Industry



[www.armandental.com](http://www.armandental.com)



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## ABOUT ARMAN

Arman Tabiat Sabz Pouya Company began its activities in the field of importing dental products since 2016 in Tehran.

Today, the company with establishment of branches throughout Iran, has developed its activities.

Arman group is committed to superiority in supplying high-quality dental products in different fields.

The company is the exclusive representative of MEDIMECCA Company of South Korea, manufacturer of dental implants and prosthetic parts with CIS brand (Chaorum Implant System) as well as Spanish company, KERAMAT, manufacturer of bone graft with KERA OS brand.

Arman group with a long term work experience with the world's leading manufacturers as well as skilled and experienced human resources, has been striving to meet the needs of respectable dental community of Iran.

Our group has seized this opportunity to briefly introduce its products in the following.



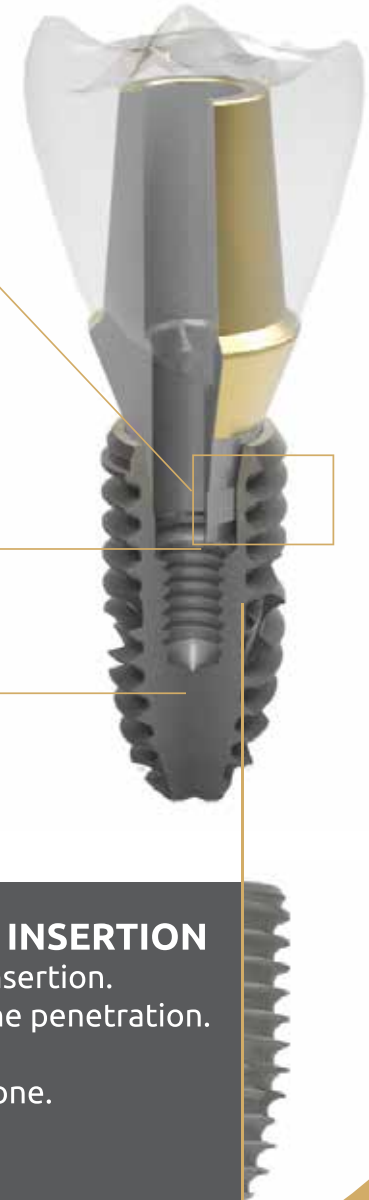
## PT SYSTEM FEATURE

### NATURAL - LOOKING ESTHICS

- Built-in platform shifting designed to increase soft volume.
- Long-term esthetic appearance

### STRONG SEALED CONNECTION

- Advanced internal conical connection with hexagonal Interlocking offers a tight seal and high mechanical strength.
- Creating a strong and perfect stable fit between fixture and abutment
- Simple restoration process



### HEX CONNECTION

2 Kinds of connection in PT, which is 2.1 mm and 2.5 mm

### MAXIMUM BONE PRESERVATION

Apex with drilling blades enables smaller osteotomy

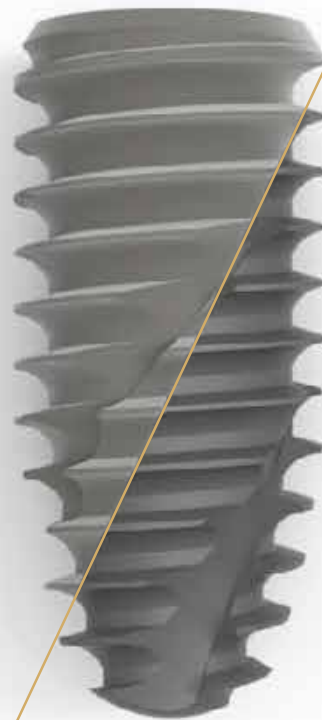
### EASY AND SMOOTH INSERTION

- Macro thread of easy insertion.
- Fast and controlled bone penetration.
- Excellent bone grip.
- Reduces pressure on bone.
- High primary stability

# SURFACE TREATMENT

## **S.L.A** (Sandblast Large Grit Acid etch)

- Enhance the rate of osseointegration.
- Raise the rate of bone to implant contact.
- Uniformed distribution of Roughness.



## **Bio R.B.M.** (Resorbable Blast Media)

- Biocompatible HA grit blast finish.
- Supersonic Cleaner eliminates residual embedded blast particles or debris in treated surface.
- Uniformed distribution of Roughness.



# PT-SYSTEM

## CONTENTS



**P 8-9**

PT Fixture  
SLA



**P 10-11**

Healing  
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Abutment



**P 14-15**

Angled  
Abutment



**P 16-17**

Solid  
Abutment



**P 18**

Milling  
Abutment



**P 19**

UCLA  
Abutment



**P 19**

CCM  
Abutment



**P 20**

Temporary  
Abutment



**P 21**

Lab  
Analog



**P 22**

Impression  
Coping  
Pick-up



**P 23**

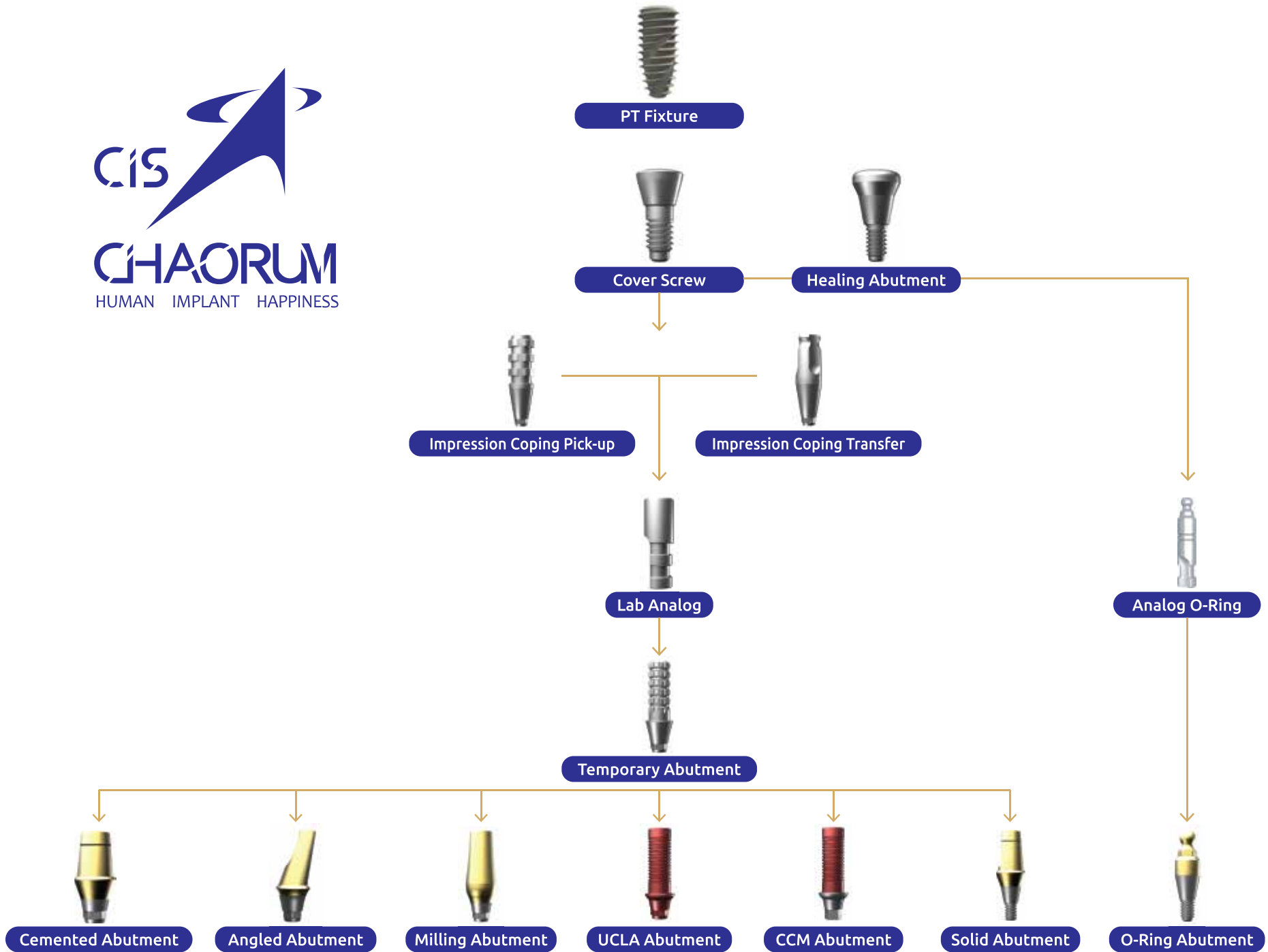
Impression  
Coping  
Transfer



**P 24**

O-Ring  
Abutment





# PT FIXTURE (SLA)

## INDICATIONS

- 1- Single-tooth replacement
- 2- Fixing bridges and prostheses

## RELEVANT COMPONENT

### COVER SCREW

MSCSM12 Small  
 MSCSS12 Regular & Wide



## RELEVANT INSTRUMENT

### FIXTURE DRIVER



**FDHMS** Small



**FDRMS** Small



**FDRML** Small



**FDHSS** Regular & Wide



**FDRSS** Regular & Wide



**FDRSL** Regular & Wide



## 2.1 Small Hex



L  
SLA Code No.

8.5  
PSFS3008M

10.0  
PSFS3010M

11.5  
PSFS3011M

13.0  
PSFS3013M

15.0  
PSFS3015M

L  
SLA Code No.

8.5  
PSFS3508M

10.0  
PSFS3510M

11.5  
PSFS3511M

13.0  
PSFS3513M

15.0  
PSFS3515M

## 2.5 Regular Hex



L  
SLA Code No.

7.3  
PSFR4007

8.5  
PSFR4008

10.0  
PSFR4010

11.5  
PSFR4011

13.0  
PSFR4013

15.0  
PSFR4015

L  
SLA Code No.

7.3  
PSFR4507

8.5  
PSFR4508

10.0  
PSFR4510

11.5  
PSFR4511

13.0  
PSFR4513

15.0  
PSFR4515

## 2.5 Wide Hex



L  
SLA Code No.

7.3  
PSFW5007

8.5  
PSFW5008

10.0  
PSFW5010

11.5  
PSFW5011

13.0  
PSFW5013

15.0  
PSFW5015

L  
SLA Code No.

7.3  
PSFW6007

8.5  
PSFW6008

10.0  
PSFW6010

11.5  
PSFW6011

13.0  
PSFW6013

15.0  
PSFW6015

# HEALING ABUTMENT

## INDICATIONS

1. For simple contouring of the per-implant soft tissue
2. Selection according to implant diameter (D) and gingival height (GH)

## RELEVANT COMPONENT

### 1.2 HEX DRIVER



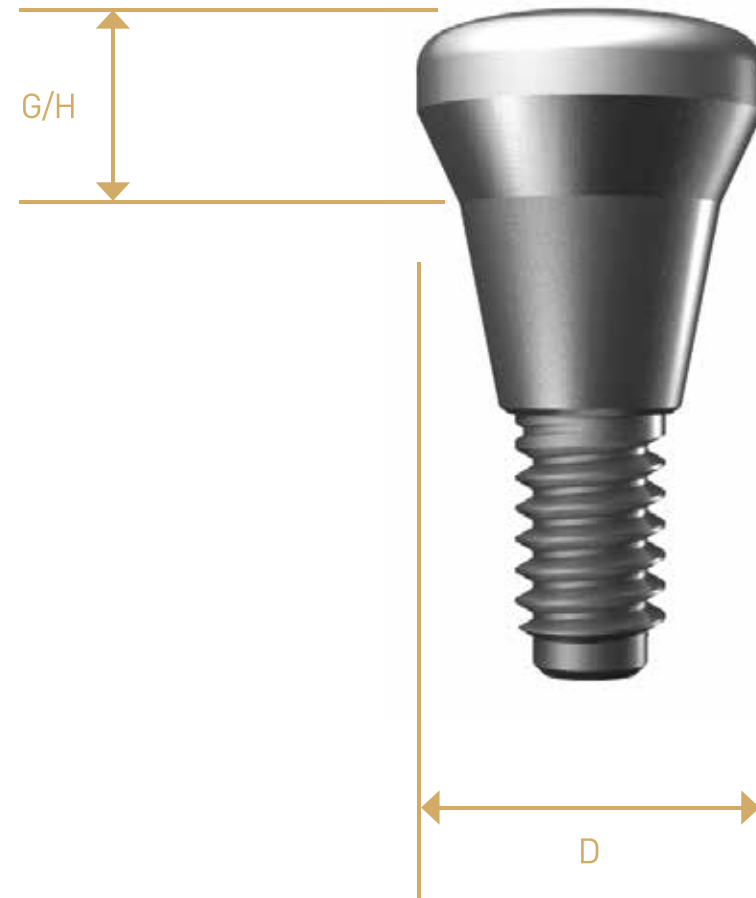
**HT120S HANDPIECE** Small & Regular & Wide



**HD120S TORQUE** Small & Regular & Wide



**HD120L TORQUE** Small & Regular & Wide





### 2.1 Small Connection



### 2.5 Small Regular & Wide Connection

## D 3.5

G/H Code No.
0.0 MDH3500M
1.0 MDH3510M
1.5 MDH3515M
2.5 MDH3525M
3.5 MDH3535M
4.5 MDH3545M
5.5 MDH3555M

## D 4.0

G/H Code No.
0.0 MDH4000M
1.0 MDH4010M
1.5 MDH4015M
2.5 MDH4025M
3.5 MDH4035M
4.5 MDH4045M
5.5 MDH4055M

## D 4.5

G/H Code No.
0.0 MDH4500M
1.0 MDH4510M
1.5 MDH4515M
2.5 MDH4525M
3.5 MDH4535M
4.5 MDH4545M
5.5 MDH4555M

## D 4.5

G/H Code No.
0.0 MDH4500
1.0 MDH4510
1.5 MDH4515
2.5 MDH4525
3.5 MDH4535
4.5 MDH4545
5.5 MDH4555

## D 5.0

G/H Code No.
0.0 MDH5000
1.0 MDH5010
1.5 MDH5015
2.5 MDH5025
3.5 MDH5035
4.5 MDH5045
5.5 MDH5055

## D 5.5

G/H Code No.
0.0 MDH5500
1.0 MDH5510
1.5 MDH5515
2.5 MDH5525
3.5 MDH5535
4.5 MDH5545
5.5 MDH5555

## D 6.0

G/H Code No.
0.0 MDH6000
1.0 MDH6010
1.5 MDH6015
2.5 MDH6025
3.5 MDH6035
4.5 MDH6045
5.5 MDH6055

## D 6.5

G/H Code No.
0.0 MDH6500
1.0 MDH6510
1.5 MDH6515
2.5 MDH6525
3.5 MDH6535
4.5 MDH6545
5.5 MDH6555

# CEMENTED ABUTMENT

## INDICATIONS

1. For esthetically demanding single-tooth crowns and bridges
2. Available straight or angled
3. Customizable by grinding
4. Cementable or screw-retained

## RELEVANT COMPONENT

### COVER SCREW

- SDTHOOM Small
- SDTHOO Regular & Wide

## RELEVANT COMPONENT

### 1.2 HEX DRIVER



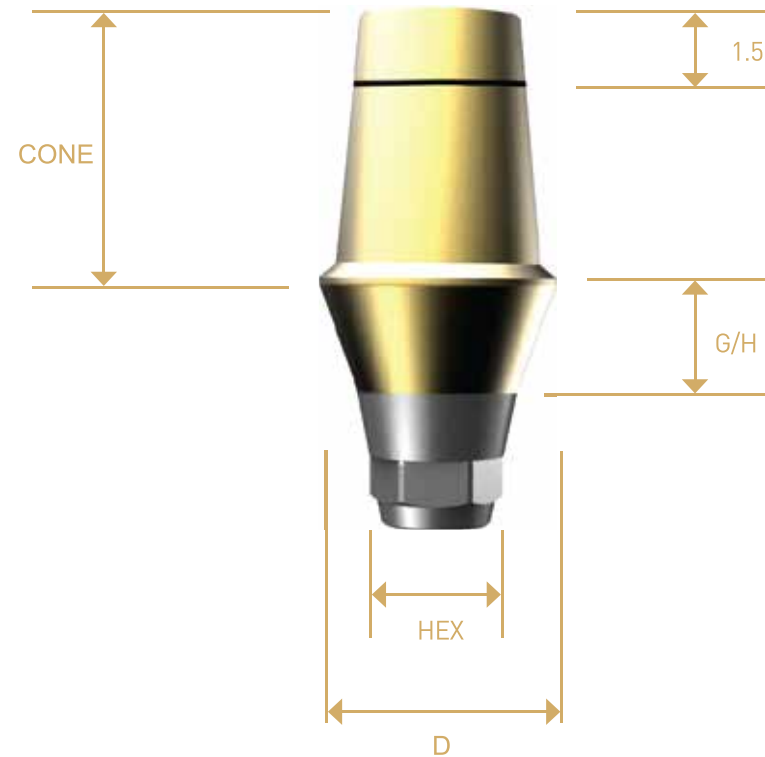
HT120S HANDPIECE Small & Regular & Wide



HD120S TORQUE Small & Regular & Wide



HD120L TORQUE Small & Regular & Wide



HEX




NON-HEX



2.1 SmallHex



Cone 5.5 

D3.5 G/H Code No.
1.0 MSDH35105M
1.5 MSDH35155M
2.5 MSDH35255M
3.5 MSDH35355M
4.5 MSDH35455M
5.5 MSDH35555M

D4.0 G/H Code No.
1.0 MSDH40105M
1.5 MSDH40155M
2.5 MSDH40255M
3.5 MSDH40355M
4.5 MSDH40455M
5.5 MSDH40555M

D4.5 G/H Code No.
1.0 MSDH45105M
1.5 MSDH45155M
2.5 MSDH45255M
3.5 MSDH45355M
4.5 MSDH45455M
5.5 MSDH45555M

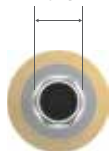
Cone 7.0 


D4.0 G/H Code No.
1.0 MSDH40107M
1.5 MSDH40157M
2.5 MSDH40257M
3.5 MSDH40357M
4.5 MSDH40457M
5.5 MSDH40557M

D4.5 G/H Code No.
1.0 MSDH45107M
1.5 MSDH45157M
2.5 MSDH45257M
3.5 MSDH45357M
4.5 MSDH45457M
5.5 MSDH45557M



2.5 Regular & WideHex



Cone 5.5 

D4.5 G/H Code No.
1.0 MSDH50105
1.5 MSDH45155
2.5 MSDH45255
3.5 MSDH45355
4.5 MSDH45455
5.5 MSDH45555

D5.0 G/H Code No.
1.0 MSDH50105
1.5 MSDH50155
2.5 MSDH50255
3.5 MSDH50355
4.5 MSDH50455
5.5 MSDH50555

D5.5 G/H Code No.
1.0 MSDH55105
1.5 MSDH55155
2.5 MSDH55255
3.5 MSDH55355
4.5 MSDH55455
5.5 MSDH55555

D6.0 G/H Code No.
1.0 MSDH60105
1.5 MSDH60155
2.5 MSDH60255
3.5 MSDH60355
4.5 MSDH60455
5.5 MSDH60555

D6.5 G/H Code No.
1.0 MSDH65105
1.5 MSDH65155
2.5 MSDH65255
3.5 MSDH65355
4.5 MSDH65455
5.5 MSDH65555


D4.5 G/H Code No.
1.0 MSDH45107
1.5 MSDH45157
2.5 MSDH45257
3.5 MSDH45357
4.5 MSDH45457
5.5 MSDH45557

D5.0 G/H Code No.
1.0 MSDH50107
1.5 MSDH50157
2.5 MSDH50257
3.5 MSDH50357
4.5 MSDH50457
5.5 MSDH50557

D5.5 G/H Code No.
1.0 MSDH55107
1.5 MSDH55157
2.5 MSDH55257
3.5 MSDH55357
4.5 MSDH55457
5.5 MSDH55557

D6.0 G/H Code No.
1.0 MSDH60107
1.5 MSDH60157
2.5 MSDH60257
3.5 MSDH60357
4.5 MSDH60457
5.5 MSDH60557

D6.5 G/H Code No.
1.0 MSDH65107
1.5 MSDH65157
2.5 MSDH65257
3.5 MSDH65357
4.5 MSDH65457
5.5 MSDH65557

Cone 7.0 

CEMENTED Abutment NON-HEX is Available (With Above Size)

# ANGLED ABUTMENT

## INDICATIONS

1. For esthetically demanding single-tooth crowns and bridges
2. Available straight or angled
3. Customizable by grinding
4. Cementable or screw-retained

## RELEVANT COMPONENT

### COVER SCREW

SDTHOOM Small  
SDTHOO Regular & Wide

### 1.2 HEX DRIVER



**HT120S HANDPIECE** Small & Regular & Wide



**HD120S TORQUE** Small & Regular & Wide



**HD120L TORQUE** Small & Regular & Wide




HEX




NON-HEX

2.1 Small Hex



Angle 15° 

D3.5	D4.0	D4.5
G/H Code No.	G/H Code No.	G/H Code No.
1.0 MSAA35151M	1.0 MSAA40151M	1.0 MSAA45151M
2.0 MSAA35152M	2.0 MSAA40152M	2.0 MSAA45152M
3.0 MSAA35153M	3.0 MSAA40153M	3.0 MSAA45153M
4.0 MSAA35154M	4.0 MSAA40154M	4.0 MSAA45154M


Angle 25° 

D4.0	D4.5
G/H Code No.	G/H Code No.
1.0 MSAA40251M	1.0 MSAA45251M
2.0 MSAA40252M	2.0 MSAA45252M
3.0 MSAA40253M	3.0 MSAA45253M
4.0 MSAA40254M	4.0 MSAA45254M




2.5 Regular & Wide Hex



Angle 15° 

D4.5	D5.0	D5.5	D6.0
G/H Code No.	G/H Code No.	G/H Code No.	G/H Code No.
1.0 MSAA45151	1.0 MSAA50151	1.0 MSAA55151	1.0 MSAA60151
2.0 MSAA45152	2.0 MSAA50152	2.0 MSAA55152	2.0 MSAA60152
3.0 MSAA45153	3.0 MSAA50153	3.0 MSAA55153	3.0 MSAA60153
4.0 MSAA45154	4.0 MSAA50154	4.0 MSAA55154	4.0 MSAA60154
5.0 MSAA45155	5.0 MSAA50155	5.0 MSAA55155	5.0 MSAA60155

Angle 25° 

D4.5	D5.0	D5.5	D6.0
G/H Code No.	G/H Code No.	G/H Code No.	G/H Code No.
1.0 MSAA45251	1.0 MSAA50251	1.0 MSAA55251	1.0 MSAA60251
2.0 MSAA45252	2.0 MSAA50252	2.0 MSAA55252	2.0 MSAA60252
3.0 MSAA45253	3.0 MSAA50253	3.0 MSAA55253	3.0 MSAA60253
4.0 MSAA45254	4.0 MSAA50254	4.0 MSAA55254	4.0 MSAA60254
5.0 MSAA45255	5.0 MSAA50255	5.0 MSAA55255	5.0 MSAA60255

ANGLE Abutment NON-HEX is Available (With Above Size)

# SOLID ABUTMENT

## INDICATIONS

1. It is used for making the general cement type of the prosthetics.
2. One piece structure for Abutment and screw.

## RELEVANT COMPONENT

### PROTECTIVE CAP

SPC40	D 4.0mm	L7.0mm
SPC45	D 4.5mm	L7.0mm
SPC50	D 5.0mm	L7.0mm
SPC55	D 5.5mm	L7.0mm
SPC60	D 6.0mm	L7.0mm
SPC65	D 6.5mm	L7.0mm

## RELEVANT COMPONENT

### 1.2 HEX DRIVER



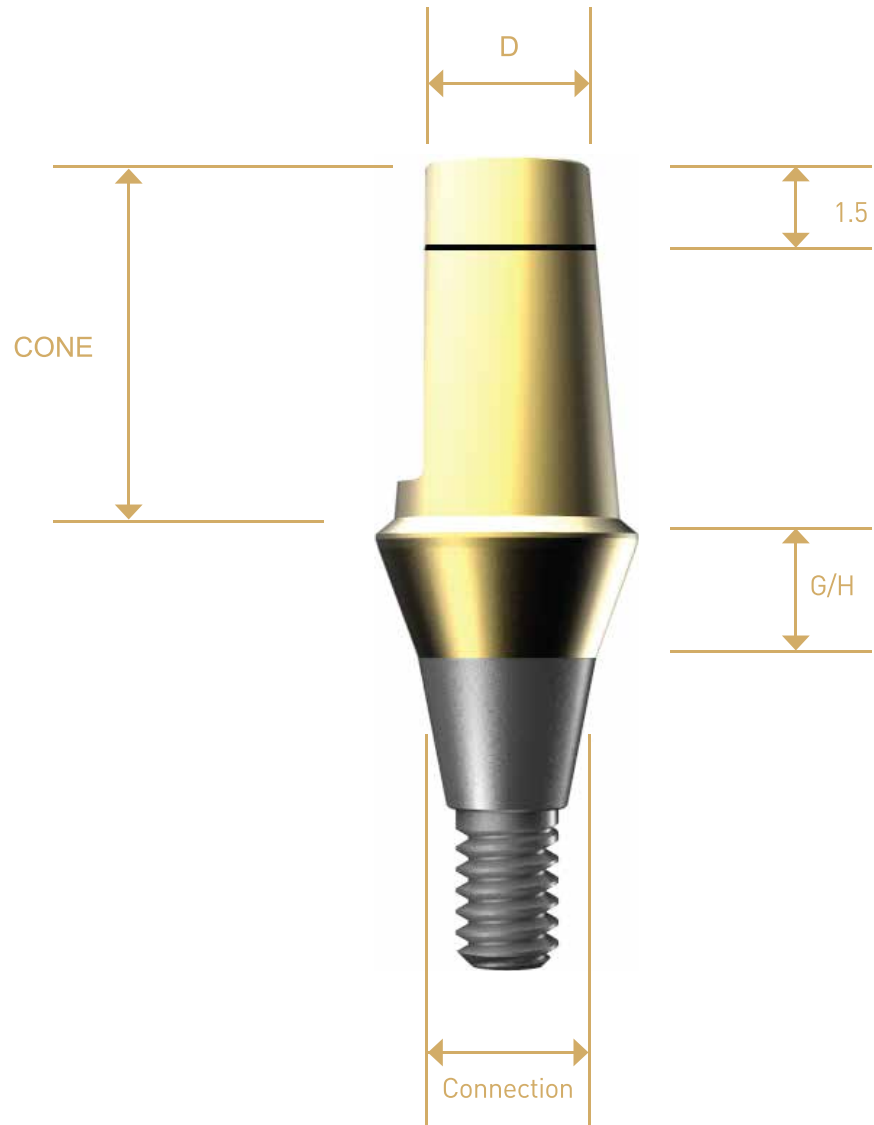
**HT120S HANDPIECE** Small & Regular & Wide



**HD120S TORQUE** Small & Regular & Wide




**HD120L TORQUE** Small & Regular & Wide



2.1 Small Connection

2.5 Regular & Wide Connection


Cone 5.5 

D3.5 G/H Code No.	D4.0 G/H Code No.	D4.5 G/H Code No.
1.0 MSCA3510M	1.0 MSCA4010M	1.0 MSCA4510M
1.5 MSCA3515M	1.5 MSCA4015M	1.5 MSCA4515M
2.5 MSCA3525M	2.5 MSCA4025M	2.5 MSCA4525M
3.5 MSCA3535M	3.5 MSCA4035M	3.5 MSCA4535M
4.5 MSCA3545M	4.5 MSCA4045M	4.5 MSCA4545M
5.5 MSCA3555M	5.5 MSCA4055M	5.5 MSCA4555M


Cone 7.0 

D4.0 G/H Code No.	D4.5 G/H Code No.
1.0 MSCA40107M	1.0 MSCA45107M
1.5 MSCA40157M	1.5 MSCA45157M
2.5 MSCA40257M	2.5 MSCA45257M
3.5 MSCA40357M	3.5 MSCA45357M
4.5 MSCA40457M	4.5 MSCA45457M
5.5 MSCA40557M	5.5 MSCA45557M



Cone 5.5 

D4.5 G/H Code No.	D5.0 G/H Code No.	D5.5 G/H Code No.	D6.0 G/H Code No.
1.0 MSCA4510	1.0 MSCA5010	1.0 MSCA5510	1.0 MSCA6010
1.5 MSCA4515	1.5 MSCA5015	1.5 MSCA5515	1.5 MSCA6015
2.5 MSCA4525	2.5 MSCA5025	2.5 MSCA5525	2.5 MSCA6025
3.5 MSCA4535	3.5 MSCA5035	3.5 MSCA5535	3.5 MSCA6035
4.5 MSCA4545	4.5 MSCA5045	4.5 MSCA5545	4.5 MSCA6045
5.5 MSCA4555	5.5 MSCA5055	5.5 MSCA5555	5.5 MSCA6055

Cone 7.0 

D6.5 G/H Code No.	D4.5 G/H Code No.	D5.0 G/H Code No.	D5.5 G/H Code No.	D6.0 G/H Code No.	D6.5 G/H Code No.
1.0 MSCA65107	1.0 MSCA45107	1.0 MSCA50107	1.0 MSCA55107	1.0 MSCA60107	1.0 MSCA65107
1.5 MSCA65157	1.5 MSCA45157	1.5 MSCA50157	1.5 MSCA55157	1.5 MSCA60157	1.5 MSCA65157
2.5 MSCA65257	2.5 MSCA45257	2.5 MSCA50257	2.5 MSCA55257	2.5 MSCA60257	2.5 MSCA65257
3.5 MSCA65357	3.5 MSCA45357	3.5 MSCA50357	3.5 MSCA55357	3.5 MSCA60357	3.5 MSCA65357
4.5 MSCA65457	4.5 MSCA45457	4.5 MSCA50457	4.5 MSCA55457	4.5 MSCA60457	4.5 MSCA65457
5.5 MSCA65557	5.5 MSCA45557	5.5 MSCA50557	5.5 MSCA55557	5.5 MSCA60557	5.5 MSCA65557

# MILLING ABUTMENT



## INDICATIONS

1. The path of abutment can be controlled though the milling process depends on the patient oral condition

## RELEVANT COMPONENT

### ABUTMENT SCREW

SDTHOOM Small  
SDTHOO Regular & Wide

### 2.1 Small Hex

D3.5	D4.0	D4.5
G/H Code No.	G/H Code No.	G/H Code No.
1.0 MSMA 3510MH	1.5 MSMA 4015MH	1.5 MSMA 4515MH
1.5 MSMA 3515MH		

### 2.5 Regular & Wide Hex

D4.5	D5.0	D5.5	D6.0	D6.5
G/H Code No.	G/H Code No.	G/H Code No.	G/H Code No.	G/H Code No.
1.5 MSMA 4515H	1.5 MSMA 5015H	1.5 MSMA 5515MH	2.5 MSMA 6025H	2.5 MSMA 6525H
2.5 MSMA 4525H	2.5 MSMA 5025H	2.5 MSMA 5525H	3.5 MSMA 6035H	3.5 MSMA 6535H

### 2.1 Small Non-Hex

D3.5	D4.0	D4.5
G/H Code No.	G/H Code No.	G/H Code No.
1.0 MSMA 3510MN	1.5 MSMA 4015MN	1.5 MSMA 4515MN
1.5 MSMA 3515MN		

### 2.5 Regular & Wide Non-Hex

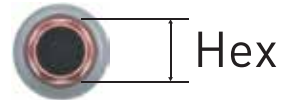
D4.5	D5.0	D5.5	D6.0	D6.5
G/H Code No.	G/H Code No.	G/H Code No.	G/H Code No.	G/H Code No.
1.5 MSMA 4515N	1.5 MSMA 5015N	1.5 MSMA 5515N	2.5 MSMA 6025N	2.5 MSMA 6525N
2.5 MSMA 4525N	2.5 MSMA 5025N	2.5 MSMA 5525N	3.5 MSMA 6035N	3.5 MSMA 6535N

## INDICATIONS

1. Material: CCM (Cobalt Chromium Molybdenum alloy)
2. Cast with non-previous metal or gold alloy
3. exact adaptation to the soft tissue contour

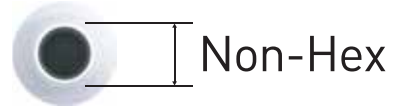
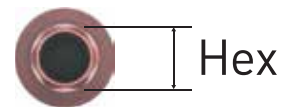


## CCM ABUTMENT



Hex		Non-Hex	
Small	Regular & Wide	Small	Regular & Wide
D 4.0	D 4.5	D 4.0	D 4.5
2.1 HEX Code No.	2.5 HEX Code No.	2.1 NON-HEX Code No.	2.5 NON-HEX Code No.
L 10 MSCA10MH	L10 MSCA10H	L 10 MSCA10MN	L10 MSCA10N

## UCLA ABUTMENT



Hex		Non-Hex	
Small	Regular & Wide	Small	Regular & Wide
D 4.0	D 4.5	D 4.0	D 4.5
2.1 HEX Code No.	2.5 HEX Code No.	2.1 NON-HEX Code No.	2.5 NON-HEX Code No.
RED MPUMH	RED MPUH	WHITE MPUMN	WHITE MPUN

# TEMPORARY ABUTMENT

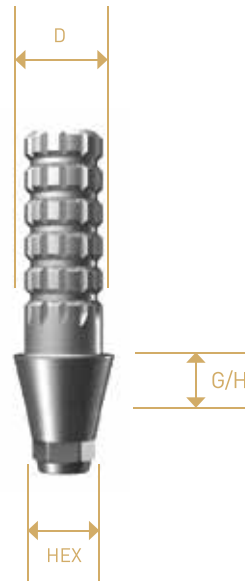
## INDICATIONS

- 1 For using of the making temporary abutment.
- 2 Easy to customize.

## RELEVANT COMPONENT

### COVER SCREW

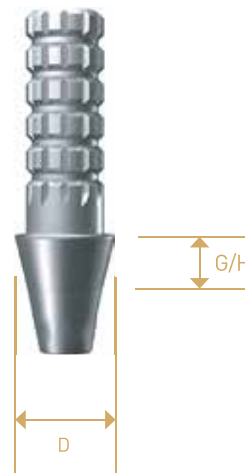
- SDTHOOM Small
- SDTHOO Regular & Wide



D 3.5	D 4.0
2.1 HEX Code No.	2.1 HEX Code No.
1.0 MSTA3510MH	1.0 MSTA4010MH
2.5 MSTA3525MH	

## 2.5 Regular & Wide Hex

D 4.5
2.5 HEX Code No.
1.0 MSTA4510H
2.5 MSTA4525H



D 3.5	D 4.0
2.1 HEX Code No.	2.1 HEX Code No.
1.0 MSTA3510MN	1.0 MSTA4010MN
2.5 MSTA3525MN	

## 2.5 Regular & Wide Non-Hex

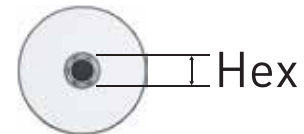
D 4.5
2.5 HEX Code No.
1.0 MSTA4510N
2.5 MSTA4525N



# CUSTOM ABUTMENT

## INDICATIONS

1. For retaining the prosthetic components on the master model.



### Small

D 10	D 12
HEX Code No.	HEX Code No.
2.1 MOSCA10M	2.5 MOSCA12M

### Regular & Wide

D 10	D 12
HEX Code No.	HEX Code No.
2.1 MOSCA10	2.5 MOSCA102

CustomAbutment NON-HEX is Available (With Above Size)

## LAB ANALOG



### Small

D 10
HEX Code No.
2.1 MSLAM

### Regular & Wide

D 12
HEX Code No.
2.5 MSLARW

# IMPRESSION PICK-UP

## INDICATIONS

1. For transferring the implant position to the master model.
2. Available for Pick Up (open tray) technique.

## RELEVANT COMPONENT

### GUIDE PIN

MSIPM-SC	SHORT – Small
MSIPML-SC	LONG – Small
MSIPS-SC	SHORT – Regular & Wide
MSIPSL-SC	LONG – Regular & Wide



2.1 Small Hex

D 3.5	D 4.0	D 4.5
L Code No.	L Code No.	L Code No.
SHORT MSIPH35MS	SHORT MSIPH40MS	SHORT MSIPH45MS
LONG MSIPH35ML	LONG MSIPH40ML	LONG MSIPH45ML



2.5 Regular & Wide Hex

D 4.5	D 5.0	D 5.5	D 6.0	D 6.5
L Code No.	L Code No.	L Code No.	L Code No.	L Code No.
SHORT MSIPH45S	SHORT MSIPH50S	SHORT MSIPH55S	SHORT MSIPH60S	SHORT MSIPH65S
LONG MSIPH45L	LONG MSIPH50L	LONG MSIPH55L	LONG MSIPH60L	LONG MSIPH65L



2.1 Small Non-Hex

D 3.5	D 4.0	D 4.5
L Code No.	L Code No.	L Code No.
SHORT MSIPN35MS	SHORT MSIPN40MS	SHORT MSIPN45MS
LONG MSIPN35ML	LONG MSIPN40ML	LONG MSIPN45ML



2.5 Regular & Wide Non-Hex

D 4.5	D 5.0	D 5.5	D 6.0	D 6.5
L Code No.	L Code No.	L Code No.	L Code No.	L Code No.
SHORT MSIPN45S	SHORT MSIPN50S	SHORT MSIPN55S	SHORT MSIPN60S	SHORT MSIPN65S
LONG MSIPN45L	LONG MSIPN50L	LONG MSIPN55L	LONG MSIPN60L	LONG MSIPN65L



# IMPRESSION TRANSFER

## INDICATIONS

1. For transferring the implant position to the master model.
2. Available for transfer technique.

## RELEVANT COMPONENT

### GUIDE PIN

MSIPM-SC	SHORT – Small
MSIPML-SC	LONG – Small
MSIPS-SC	SHORT – Regular & Wide
MSIPSL-SC	LONG – Regular & Wide



### 2.1 Small Hex

D 3.5	D 4.0	D 4.5
L Code No.	L Code No.	L Code No.
SHORT MSITH35MS	SHORT MSITH40MS	SHORT MSITH45MS
LONG MSITH35ML	LONG MSITH40ML	LONG MSITH45ML

### 2.5 Regular & Wide Hex

D 4.5	D 5.0	D 5.5	D 6.0	D 6.5
L Code No.	L Code No.	L Code No.	L Code No.	L Code No.
SHORT MSITH45S	SHORT MSITH50S	SHORT MSITH55S	SHORT MSITH60S	SHORT MSITH65S
LONG MSITH45L	LONG MSITH50L	LONG MSITH55L	LONG MSITH60L	LONG MSITH65L

### 2.1 Small Non-Hex

D 3.5	D 4.0	D 4.5
L Code No.	L Code No.	L Code No.
SHORT MSITN35MS	SHORT MSITN40MS	SHORT MSITN45MS
LONG MSITN35ML	LONG MSITN40ML	LONG MSITN45ML

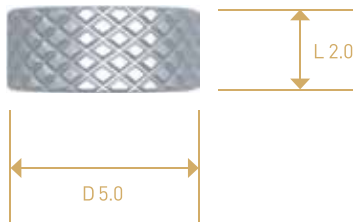
### 2.5 Regular & Wide Non-Hex

D 4.5	D 5.0	D 5.5	D 6.0	D 6.5
L Code No.	L Code No.	L Code No.	L Code No.	L Code No.
SHORT MSITN45S	SHORT MSITN50S	SHORT MSITN55S	SHORT MSITN60S	SHORT MSITN65S
LONG MSITN45L	LONG MSITN50L	LONG MSITN55L	LONG MSITN60L	LONG MSITN65L

# ORING ABUTMENT



**ORING ABUTMENT HOUSING**  
Code No. BAH40



**ORING ABUTMENT RETAINER**  
Code No. BAR20



**ORING ABUTMENT ORING BLACK**  
Code No. ORINGB



**ORING ABUTMENT ORING RED**  
Code No. ORINGR

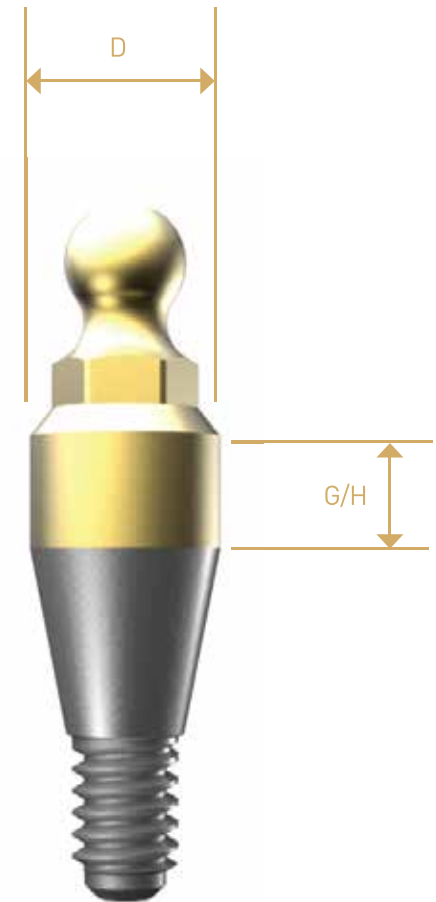


**ORING LAB ANALOG**  
Code No. MBLA00



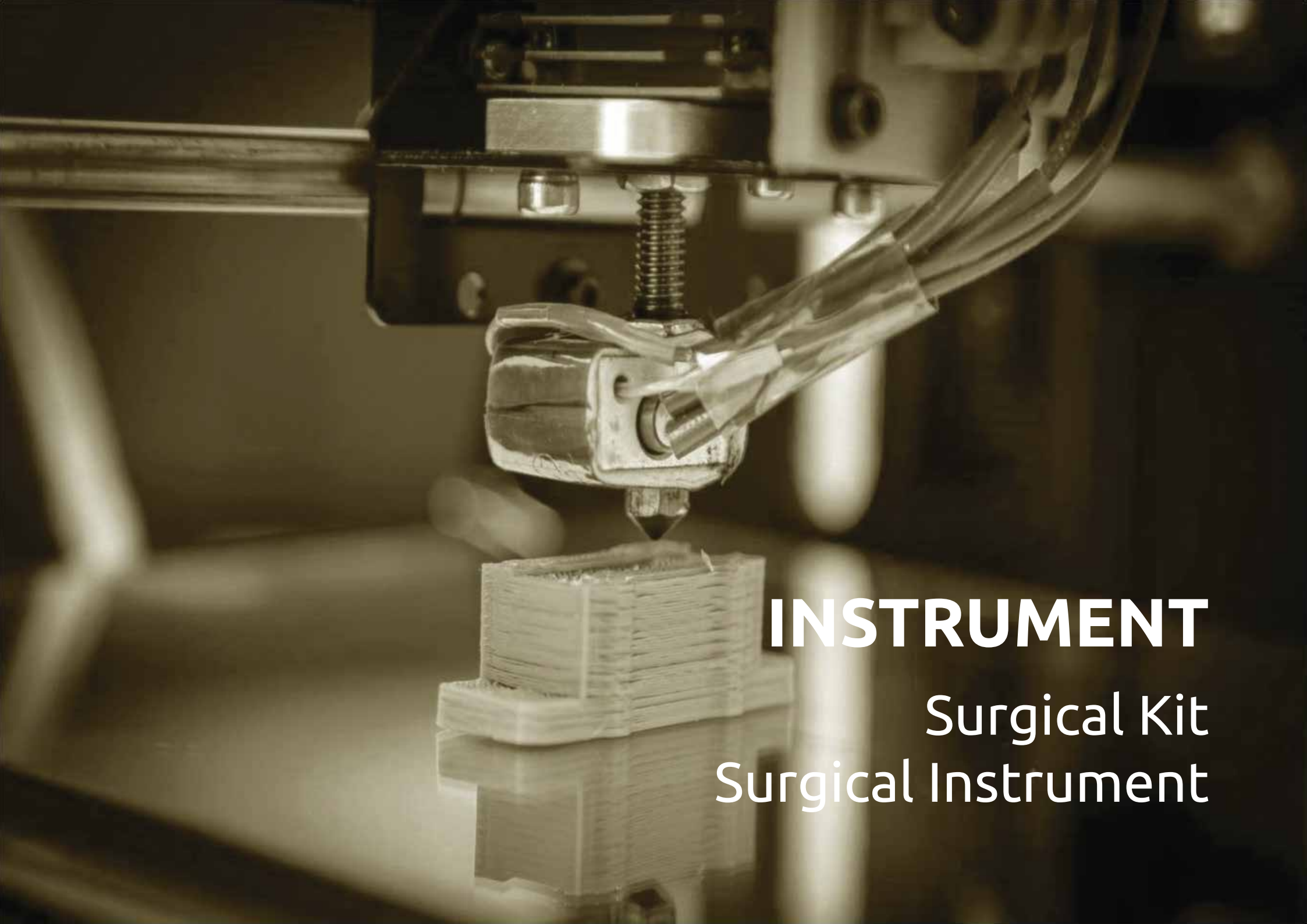
**ORING ABUTMENT DRIVER**  
Code No. BAD00

Small	Regular & Wide
D 3.0	D 3.5
G/H Code No.	G/H Code No.
1.0 MSBA3510M	1.0 MSBA3510
1.5 MSBA3515M	1.5 MSBA3515
2.0 MSBA3520M	2.0 MSBA3520
2.5 MSBA3525M	2.5 MSBA3525
3.0 MSBA3530M	3.0 MSBA3530



## INDICATIONS

1. It can be connected between the overdenture and implant
2. With the O-Ring abutment driver

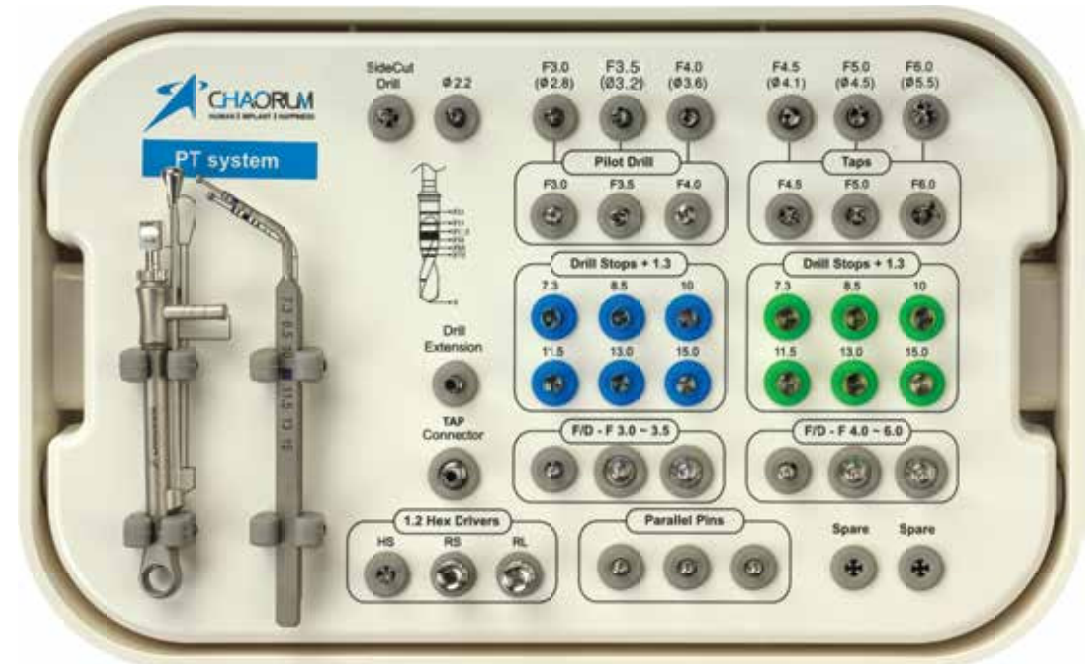


**INSTRUMENT**

Surgical Kit  
Surgical Instrument

# SURGICAL KIT

## USER FRIENDLY



# SURGICAL INSTRUMENT

## PT SURGICAL DRILL

### - SIDECUT (LINDEMANN) DRILL

#### INDICATIONS

It can point the exact place for the implantation effectively.

### - TWIST DRILL

#### INDICATIONS

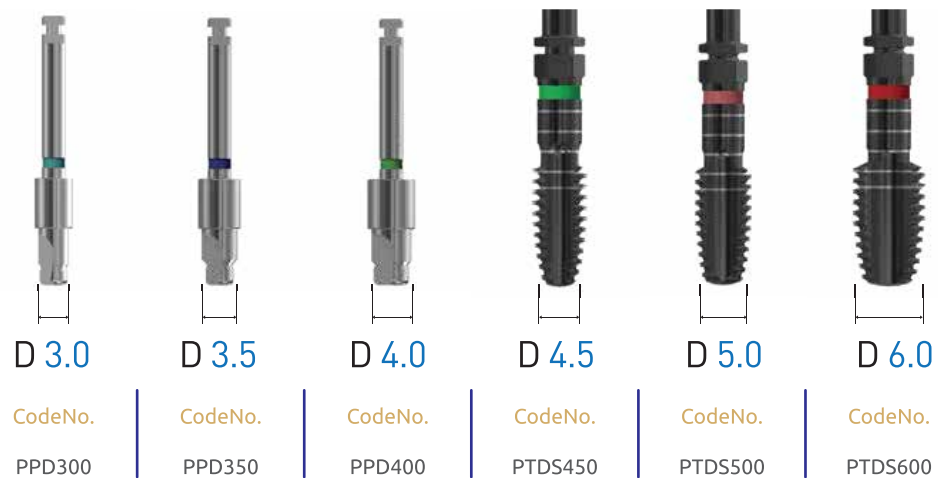
Twist drills for implant site preparations up the planned implant diameter in on patient



### - PILOT DRILL & TAP DRILL

#### INDICATIONS

1. It can be used selectively when the bone density is D1 or D2.
2. Please note that to use this drill after the final drill.



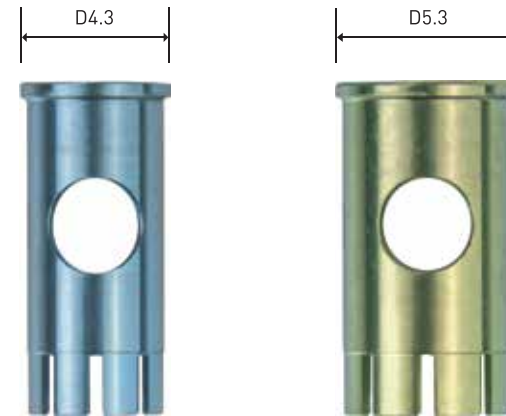
# SURGICAL INSTRUMENT STOPPER

## INDICATIONS

Safe implant site preparation by adaptation of the tapered drill to the planned implant length.

Blue is for 3.0, 3.5, 4.0 twist drill.

Green is for 4.5, 5.0, 6.0 twist drill.



D 4.3, F: Fixture Length	F 7.3	F 8.5	F 10.0	F 11.0	F 13.0	F 15.0
	Code No.	Code No.	Code No.	Code No.	Code No.	Code No.
	PDRSTP73M	PDRSTP85M	PDRSTP10M	PDRSTP11M	PDRSTP13M	PDRSTP15M
D 5.3, F: Fixture Length	F 7.3	F 8.5	F 10.0	F 11.0	F 13.0	F 15.0
	Code No.	Code No.	Code No.	Code No.	Code No.	Code No.
	PDRSTP73	PDRSTP85	PDRSTP10	PDRSTP11	PDRSTP13	PDRSTP15



# SURGICAL INSTRUMENT

## - FIXTURE DRIVER FOR TORQUE WRENCH

### INDICATIONS

During the implant surgery procedure, it can be used with torque wrench instead of the fixture mount to connect the fixture.



Code No. **FDRMS**



Code No. **FDRSS**



Code No. **FDRML**



Code No. **FDRSL**

## - FIXTURE DRIVER FOR HANDPIECE

### INDICATIONS

During the implant surgery procedure, it can be used with handpiece instead of the fixture mount to connect the fixture.



Code No. **FDHMS**



Code No. **FDHSS**

# SURGICAL INSTRUMENT

## - DIRECTION INDICATOR

### INDICATIONS

After drilling with 2.2 and 3.0 drill, it can be used to determine the appropriate alignment with adjacent teeth, opposing occlusion of other implants.



Code No. GP01

## - DRILL EXTENSION

### INDICATIONS

It can be used when extension of drill length is required while drilling.



No. DE00

## - 1.2 HEX DRIVER

### INDICATIONS

It can be used the connecting or detaching the cover screw and abutment screw.



FOR TORQUE WRENCH  
Code No. HD120L



FOR TORQUE WRENCH  
Code No. HD120S



FOR HANDPIECE  
Code No. HT120S

## - UNIVERSAL ADAPTER

### INDICATIONS

It can be used as adapter of tap drill with torque wrench.



Code No. CTARL

## - TORQUE WRENCH

### INDICATIONS

It can be used to measure the exact torque of the implant.



Code No. TQRW00

## - DEPTH GAUGE

### INDICATIONS

It can be used to measure the exact depth of the formed hole.



Code No. PDG00

# SURGICAL OVERVIEW

## FIXTURE

D	L
3.0	7.3
3.5	8.5
4.0	10.0
4.5	11.5
5.0	13.0
6.0	15.0



MINI  
REGULAR

## HEALING ABUTMENT

D	G/H
3.5	0.0
4.0	1.0
4.5	1.5
5.0	2.5
5.5	3.5
6.0	4.5
6.5	5.5



MINI  
REGULAR

## CEMENTED ABUTMENT

D	TYPE	CONE	G/H
3.5			1.0
4.0			1.5
4.5	HEX	5.5	2.5
5.0	NON-HEX	7.0	3.5
5.5			4.5
6.0			5.5
6.5			



MINI  
REGULAR

## ANGLED ABUTMENT

D	TYPE	ANGLE	G/H
3.5			
4.0			1.0
4.5	HEX	15	2.0
5.0	NON-HEX	25	3.0
5.5			4.0
6.0			5.0
6.5			



MINI  
REGULAR

## SOLID ABUTMENT

D	CONE	G/H
3.5		1.0
4.0		1.5
4.5	5.5	2.5
5.0	7.0	3.5
5.5		4.5
6.0		5.5
6.5		



MINI  
REGULAR

## MILLING ABUTMENT

D	TYPE	G/H
3.5		1.0
4.0		1.5
4.5	HEX	2.0
5.0	NON-HEX	2.5
5.5		3.0
6.0		3.5
6.5		4.0



MINI  
REGULAR

## UCLA ABUTMENT

D	TYPE
3.5	HEX NON



MINI  
REGULAR

## TEMPORARY ABUTMENT

D	TYPE	G/H
3.5	HEX	1.0
4.5	NON-HEX	2.5
5.5	HEX	3.0



MINI  
REGULAR

## LAB ANALOG

D	TYPE
4	HEX 2.1 HEX2.5



MINI  
REGULAR

## IMPRESSION PICK-UP

D	TYPE	L
3.5		
4.0		
4.5	HEX	S
5.0	NON	L
5.5	-HEX	
6.0		
6.5		



MINI  
REGULAR

## IMPRESSION TRANSFER

D	TYPE	L
3.5		
4.0		
4.5	HEX	S
5.0	NON	L
5.5	-HEX	
6.0		
6.5		



MINI  
REGULAR

## ORING LAB ANALOG

D	G/H
3.5	1.0 1.5 2.0 2.5 3.0



MINI  
REGULAR

## ORING ABUTMENT

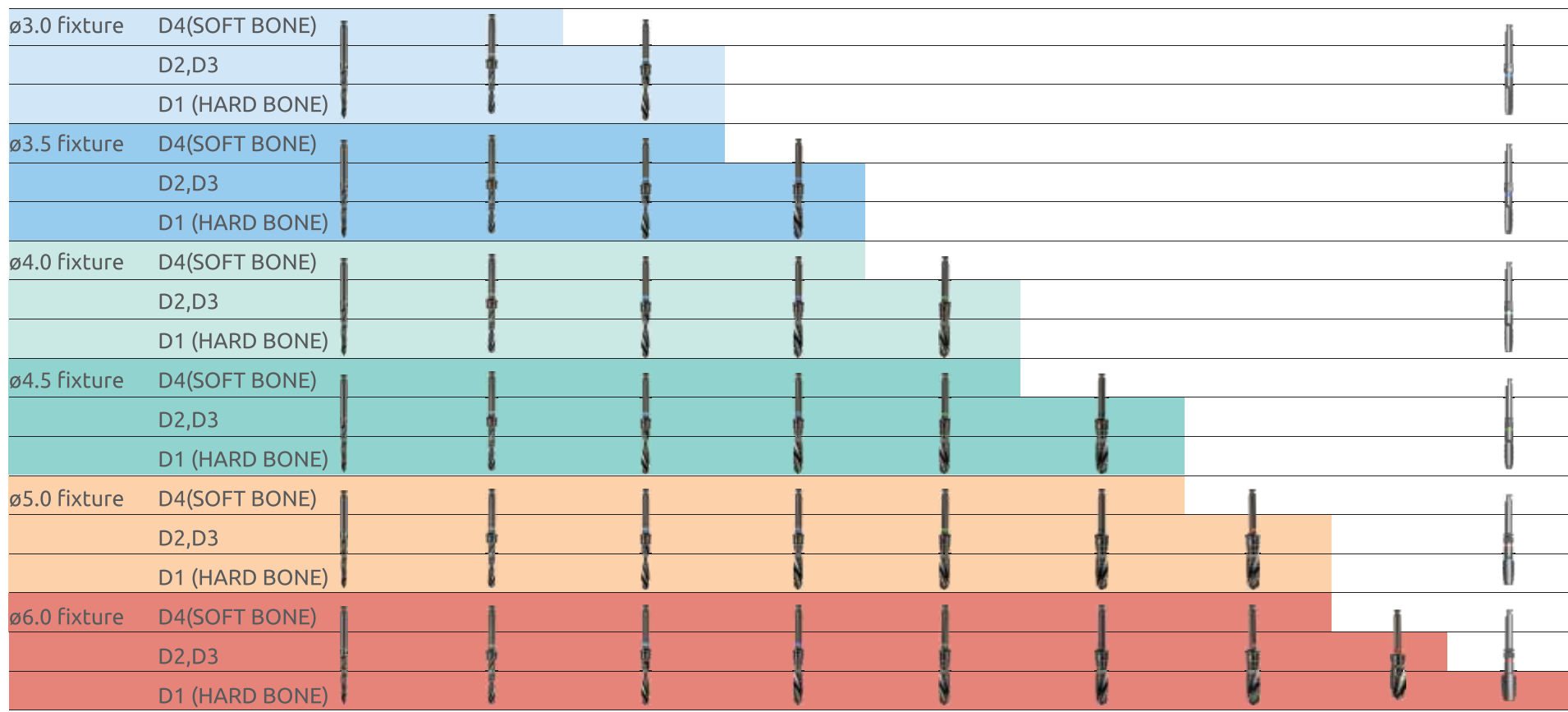
D	G/H
3.5	1.0 1.5 2.0 2.5 3.0

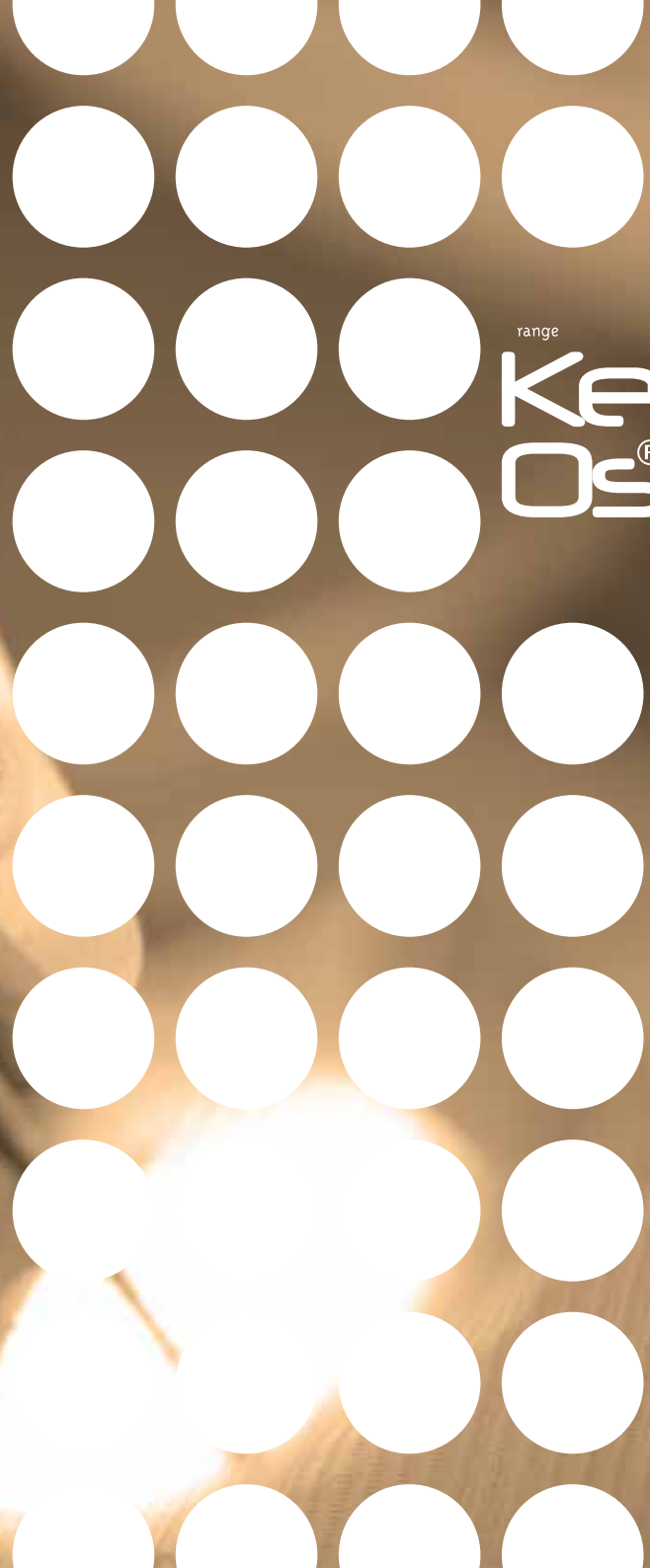


MINI  
REGULAR

# SURGICAL PROTOCOL

Implant Length		sidecut drill	Twist Drill ø2.2mm	Twist Drill ø3.0mm	Twist Drill ø3.5mm	Twist Drill ø4.0mm	Twist Drill ø4.5mm	Twist Drill ø5.0mm	Twist Drill ø6.0mm	
7.3mm		7.3mm	7.3mm	7.3mm	7.3mm	7.3mm	7.3mm	7.3mm	7.3mm	
8.5mm		8.5mm	8.5mm	8.5mm	8.5mm	8.5mm	8.5mm	8.5mm	8.5mm	
10.0mm	Guide Drill	10.0mm	10.0mm	10.0mm	10.0mm	10.0mm	10.0mm	10.0mm	10.0mm	Tap Drill
11.5mm		11.5mm	11.5mm	11.5mm	11.5mm	11.5mm	11.5mm	11.5mm	11.5mm	
13.0mm		13mm	13mm	13mm	13mm	13mm	13mm	13mm	13mm	
15.0mm		15mm	15mm	15mm	15mm	15mm	15mm	15mm	15mm	





range  
**Kera**  
**Os<sup>®</sup>**

# BONE GRAFT

## Our Product Range



large

---

0.25 - 1 mm

---

CC  
Code No.

---

1  
Kbl0100

---

2  
Kbl0200



Small

---

0.25 - 1 mm

---

CC  
Code No.

---

0.25  
Kbs0025

---

0.5  
Kbs0050

---

1  
Kbs0100

---

2  
Kbs0200

## WHAT IS KeraOs?

KeraOs is a range of bone replacement products made of Tricalcium B-Phosphate in compliance with international standard ASTM Flo04-88.

The KeraOs product range complies with the maximum requirements of any biomaterial for odontological use.

KeraOs's structure is similar to that of spongy bone trabecules in its interconnected porosity, which allows it to work as osteoconductor support where blood capillaries and osteogenic cells adhere to form bone.

Its bioactivity and composition allows them to intervene in the bone remodeling process with full osteointegration and bioreabsorption in so that it is replaced by the patient's own bone.

Due to its characteristics, properties and composition, KeraOs is an ideal biomaterial for bone regeneration processes.

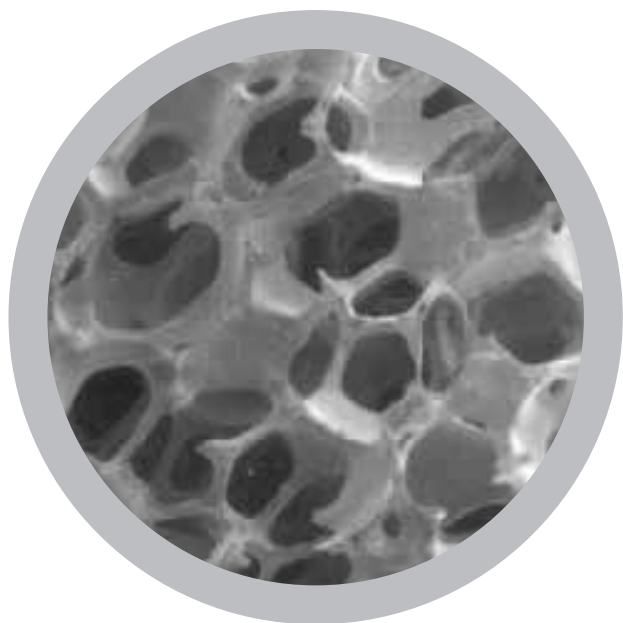
Biocompatible  
Bioactive  
Bioabsorbable  
Bioremodelable  
Osteointegrable  
Osteoconductor



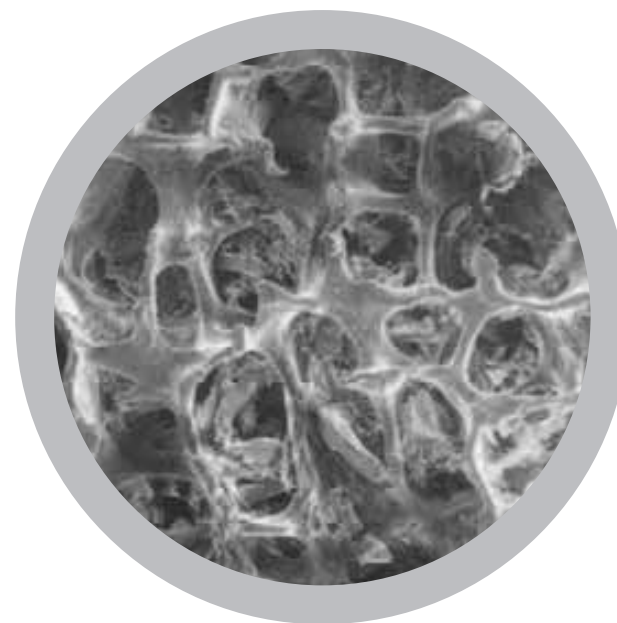


## EFFECTIVE BONE REGENERATION

The technology we apply in our manufacturing process allows us to develop tree-dimensional structures in our products that are similar to those in the human bone.



KeraOs SEM Micrograph



Human Cortical Bone Micrograph

# CHARACTERISTICS AND BENEFITS

Biofunctionality  
Osteoconduction

Tree-dimensional  
structure of  
interconnected  
pores

It delivers excellent  
mechanic stability,  
avoiding  
micro-movement

It preserves the  
shape and volume  
of the defect to  
avoid bone  
reabsorption

It favours  
rapid colonizat  
ion of  
proteins and  
cells

It acts as the ideal  
support, as it is  
recognized by the  
body and blood  
capillaries and  
cells adhere to it  
to form the bone

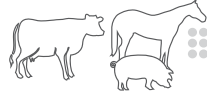
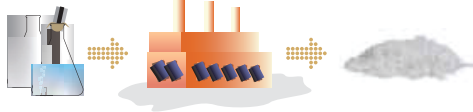

## EXCELLENT MACROPOROSITY AND HIGH MICROPOROSITY

Bioactivity  
Osteointegration

It excellent  
microporosity allows  
for permeability of  
the cells towards the  
inside of the KeraOs  
particles.

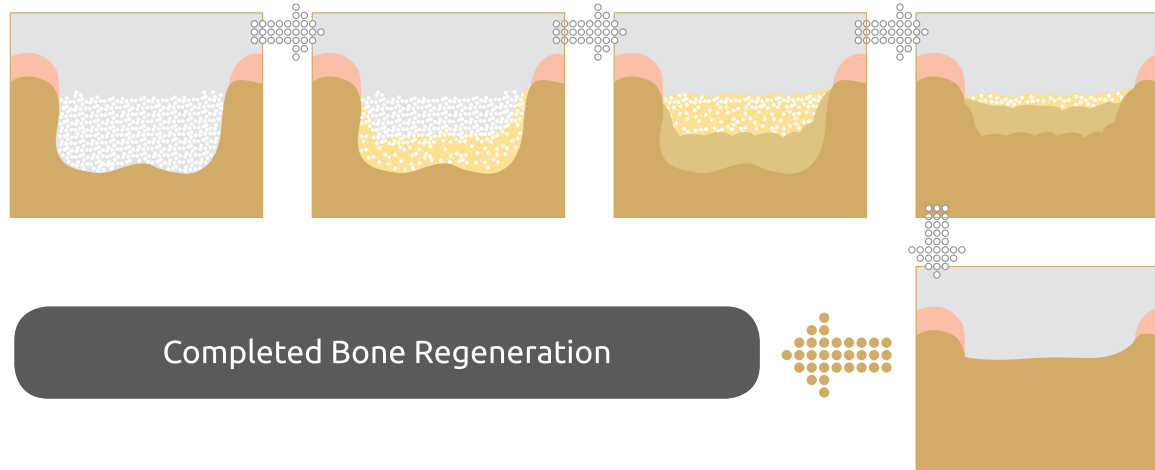
Its microporosity  
favours cell  
adhesion and  
adhesion of  
growth factors  
that we may add,  
thus favouring  
the biological  
process of bone  
regeneration.

# NOT ALL BIOMATERIALS ARE THE SAME

	KeraOs®	Biomaterials of Animal Origin
<b>ORIGIN</b>	SANTHETIC	DONOR ANIMALS 
<b>COMPOSITION</b>	B-TRICALCIUM PHOSPHATE	HYDROXYAPATITE IN ITS CARBONATED FORM (CARBOHYDROXYAPATITE)
<b>MANUFACTURE</b>	Chemical process based on industrial reagents 	Elimination of organic matter Present in the donor's bone structure 
<b>MORPHOLOGY</b>	Specifically designed according to the requirements for cells involved in bone regeneration	Depends on the donor animal and the part from which the biomaterial was obtained
<b>POROSITY</b> Approximate Average Value	25%	40%
<b>SPECIFIC SURFACE</b> Approximate Average Value	0.25 m <sup>2</sup> /g	60 m <sup>2</sup> /g
	Fully Controlled end product	Partially controlled end product
	<b>TOTALLY DIFFERENT PRODUCTS FOR A COMMON APPLICATION</b>	
	<b>KeraOs REGENERATION</b>	<b>BIOMATERIALS OF ANIMAL ORIGIN: REPAIR</b>
	Bone Regeneration: Formation of new bone which, after remodelling, is identical to the pre-existing bone <sup>1</sup> .	Bone Repair: Formation of scar tissue with different characteristics from the original.

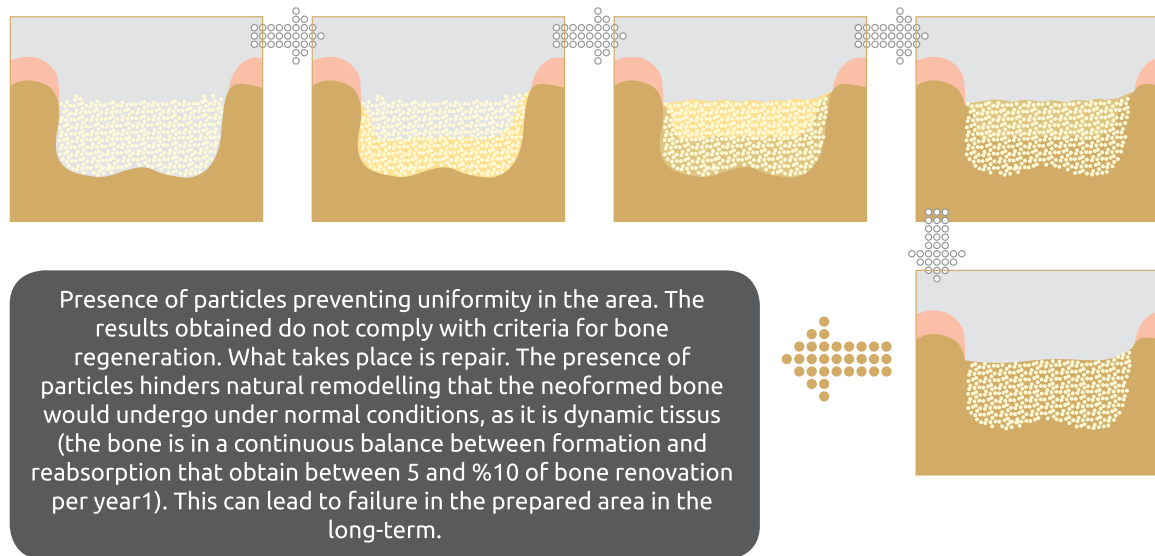
# COMPOSITION

## KeraOs



Completed Bone Regeneration

## Biomaterials of Animal Origin



Presence of particles preventing uniformity in the area. The results obtained do not comply with criteria for bone regeneration. What takes place is repair. The presence of particles hinders natural remodelling that the neoformed bone would undergo under normal conditions, as it is dynamic tissue (the bone is in a continuous balance between formation and reabsorption that obtain between 5 and %10 of bone renovation per year<sup>1</sup>). This can lead to failure in the prepared area in the long-term.

Although B-tricalcium phosphate and hydroxyapatite belong to the group of calcium phosphates (which means they have a similar chemical composition), their behavior "in vivo" is very different. Under physiological conditions and regardless of origin (natural or synthetic), hydroxyapatite is almost insoluble, whereas B-tricalcium phosphate is easily replaced by bone<sup>2,3</sup>. Grafts of animal origin have a higher content of hydroxyapatite and release a much smaller amount of calcium than grafts of B-tricalcium phosphate, which makes stimulation of bone remodeling more difficult<sup>4</sup>.

Ten-year studies show the presence of hydroxyapatite particles in areas originally grafted with bio-materials of animal origin<sup>5</sup>, which makes the writers think that hydroxyapatite is a bio-stable material and almost bioinert<sup>6,7</sup>, whereas B-tricalcium phosphate is completely bioreplaced<sup>2,3</sup>.

# CLINICAL CASE

## POST-EXTRACTION ALVEOLAR FILLING

In this case we used KeraOs® to fill the post-extraction alveolar socket in order to preserve as much bone as possible. Later, the goal was to secure the attachments of an implant-supported prosthesis. Radiological follow up was done after 60 days.



Placement of the alveolus after extraction. KeraOs® was placed inside the defect without excessive compaction in order to correctly vascularise the defect.



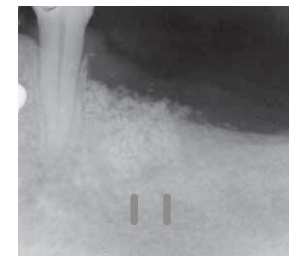
The goal of using KeraOs® as filling material is to preserve as much bone as possible, using its osteoconductor capacity



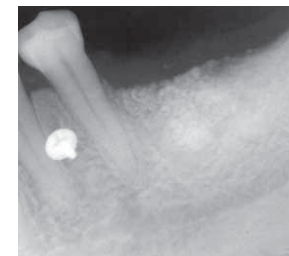
The post-extraction defect is totally filled.



The alveolus is sutured.



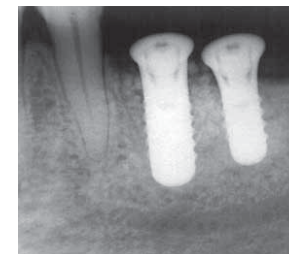
Radiological follow-up at 60 days



Radiopacity of the grafted material



Clinical situation of the grafted area with a good biological status of the mucosa in terms of colour and crest edges.



Radiological situation after deferred placement

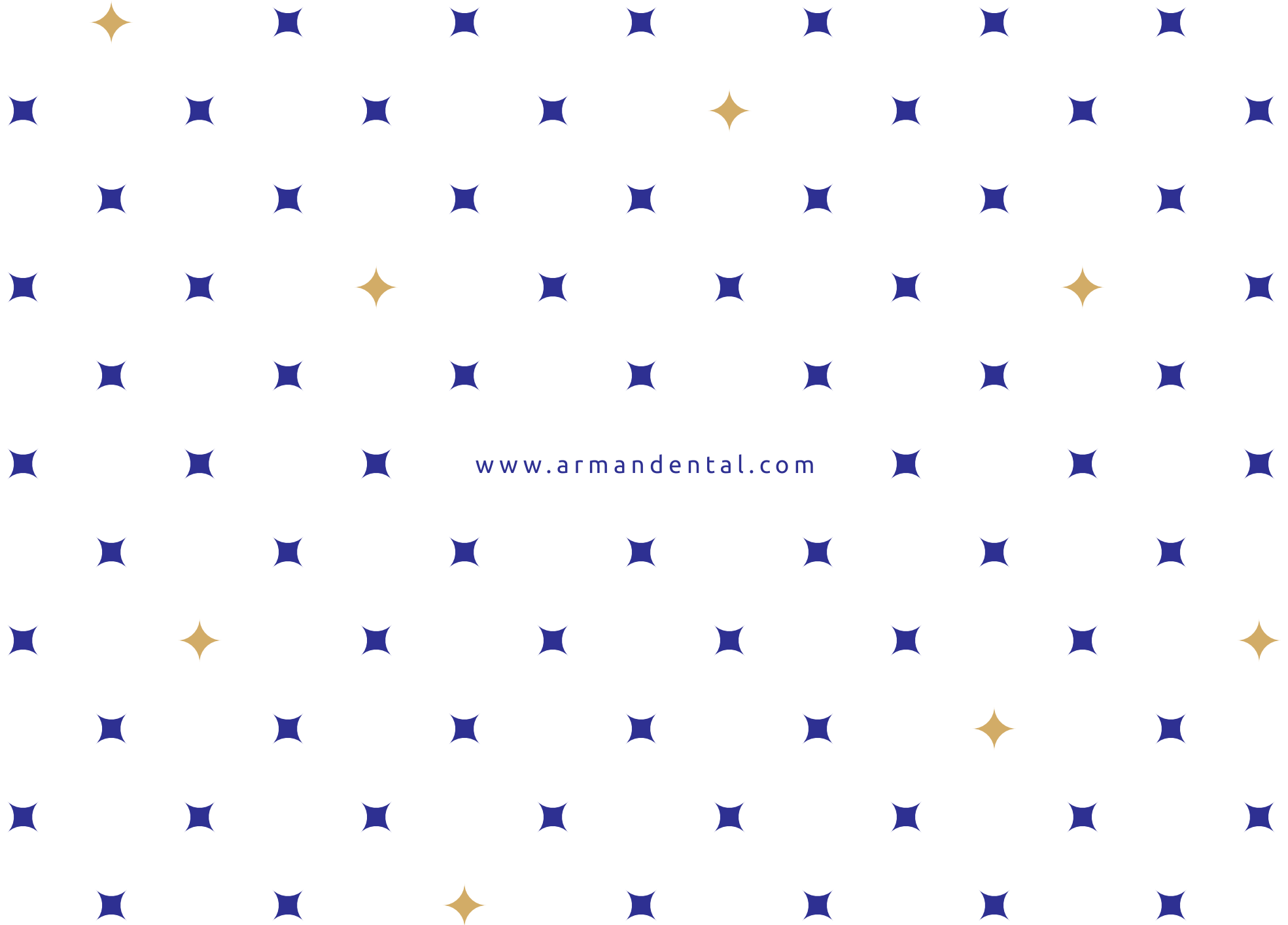
## EFFECTIVE BONE REGENERATION

- 1 KeraOs is recommended to be used as a bone void filler. It has load responsibilities, so it must be carefully handled.
- 2 Due to its granulated nature, it is recommended to mix KeraOs granules, when used, with patient's blood or, otherwise, with physiological saline, with the aim of avoiding its dispersion at the grated site. Its high hydrophilic capacity makes that, one humidified (with blood or saline), KeraOs granules are agglomerated, which makes easier its handing and enables its modelling in-situ at the defect site.



- 3 Mixing the product with patient's blood allows, apart from getting the agglomeration of the granules, to add the biomaterial, and, therefore, to the bony defect, the biological factors needed for the development of the bone regeneration process since it facilitates and accelerates the colonization by osteoproliferative cells.
- 4 Bed must be properly ready. Any of mixtures mentioned before must be got in touch with healthy and vascularized bone avoiding that it keeps in touch with scraps of ligament, granulation tissue with suspected contamination.
- 5 KeraOs handling, or its mixture, must be done with sterile material.
- 6 KeraOs mixture with blood, saline and other agents that favours bone regeneration (PRP; PRGF) must be directly done in the blister pack in which the product is contained. Since it has been especially designed to be used as Dappen glass. This way of mixing guarantees the required conditions of sterility. This guarantee cannot be produced if KeraOs is transvased to another container.
- 7 When KeraOs is placed, the excessive compaction of the biomaterial must be avoided. The vascularization at the whole grated area must be assured.
- 8 Whenever it is possible, primary stability of the implant must be assured. For that, it is recommended to use, if needed, GBR elements (guided bone regeneration). In those cases in which it is needed, a collagen membrane may be used, and this will not interfere in KeraOs activity.





[www.armandental.com](http://www.armandental.com)



**FDA** U.S. FOOD & DRUG  
ADMINISTRATION



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