

Edition 02 / 2014



OSSTEM[®]
IMPLANT

SmartBuilder™

Encounter true dental innovation with the 3D SmartBuilder™

OSSTEM[®]
IMPLANT



A chance

DEFINITE ADVANTAGES

to expect more benefits

The Smarter Solutions

● Smart handling

Instantly mold with ease, or just use as formed.
Applicable for both one-stage and two-stage surgeries.
Easily fit and remove.

● Smart healing

Extreme durability and a wrinkle-free sphere-shaped appearance
guarantee minimized membrane exposure.
Sufficiently solid for reliable bone healing and regeneration.



Components



Healing Cap (mm)

		Regular	
D	H	3	4
∅ 4.0		SMHA443R	SMHA444R

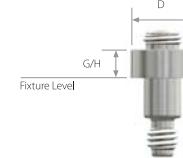
- 1stage procedure
- Torque application : 5~8Ncm
- 1.2 Hex hand driver placement



Cover Cap (mm)

		Regular	
D	H	1.5	
∅ 4.0		SMCC415	

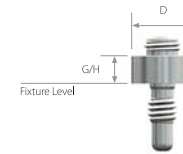
- 2stage procedure
- Torque application : 5~8Ncm
- Cover cap driver placement



Height (for TS) (mm)

		Mini	Regular
GH	D	∅ 3.5	∅ 4.0
0.5		SMHI305TSM	SMHI405TSR
1.0		SMHI310TSM	SMHI410TSR
1.5		SMHI315TSM	SMHI415TSR
2.0		SMHI320TSM	SMHI420TSR
2.5		SMHI325TSM	SMHI425TSR
3.0		SMHI330TSM	SMHI430TSR

- 2stage procedure
- Torque application : 5~8Ncm
- Cover cap driver placement
- SB, SB2 Compatible



Height (for US) (mm)

		Mini	Regular	Wide	Wide PS
GH	D	∅ 3.5	∅ 4.0	∅ 5.1	∅ 5.0
1.0		SMHI310USM	SMHI410USR	SMHI510USW	SMHI510USP
1.5		SMHI315USM	SMHI415USR	SMHI515USW	SMHI515USP
2.0		SMHI320USM	SMHI420USR	SMHI520USW	SMHI520USP
2.5		SMHI325USM	SMHI425USR	SMHI525USW	SMHI525USP
3.0		SMHI330USM	SMHI430USR	SMHI530USW	SMHI530USP

- 1.2 Hex hand driver placement
- Torque application : 12~15Ncm
- SB, SB2 Compatible



Cover Cap Driver Ejector Set

Code	SMCDES
------	--------

- Cover cap placement
- Friction placement structure
- Remove cover cap with Cap ejector

• Cap driver and Cap ejector set



Defect Gauge

Code	SMDG
------	------

- Measure horizontal, vertical amount of bone defect
- 4-5,9-10,14-15 broad line, each marked in 1mm units

A chance to rely on credible technology



A chance

SIMPLE ADAPTATION

to keep it simple and easy

User Guide

- 1 Check the area of bone defect and select product.
- 2 Using a Defect gauge, measure the horizontal and vertical bone defect of the surgical site to select the right type.
- 3 Select the type of Height based on the vertical bone defect and place the Height on the Implant. Use a 1.2 Hex driver to tighten the Height in place with Torque applications of 12~15Ncm.
- 4 Graft the necessary amount of bone where the bone defect has occurred.
- 5 Place the selected SmartBuilder over the Height. Bend or trim the product to fit the area of bone defect before fixing the SmartBuilder in place.
- 6 Use the Healing caps or Cover caps to fix the SmartBuilder in place. Tighten the Healing cap with a 1.2 Hex driver, and the Cap using a Cap driver.
- 7 Suture the gum of the surgical site closed.
- 8 Remove the Healing caps or Cover caps once the bone regeneration process has been completed. It's easier to remove the Height using a 1.2Hex driver as the SmartBuilder will be simultaneously removed.



Caution

- 1 The SmartBuilder, Height, Healing caps or Cover caps must all be gamma irradiation sterilized and be disposed of after single use.
- 2 Product must not be used for any other than GBR procedures.
- 3 All surgical equipment must be sterilized in an autoclave before use. (For a duration of 15 minutes at a temperature of 132 degrees Celsius)
- 4 Undergo procedures as required per case, but extreme procedures may expose the membrane to cause infections and impair bone formation.

Dr. Jo yong-suk | Apsun Dental Clinic

- Seoul National University, Dental medicine studies
- Clinical Professor, Chungbuk university
- Clinical Professor, Seoul National University

SmartBuilder is a highly useful material that has renewed the previous perceptions of titanium mesh and can be easily applied to different clinical cases.

Dr. Jun In-sung | H Dental Clinic

- Seoul National University, Dental medicine studies
- Exchange Professor, Harvard University
- Clinical Professor, Seoul National University

SmartBuilder is capable of offering reliable and predictable results in terms of bone formation and managing the soft tissues.

Dr. O Sang-yun | Acroi Mplant Center

- Chosun University, Dental medicine studies
- Director, A.T.C Implant training session
- Chief, OMS(Oral and Maxillofacial surgery) center, Chongju University

SmartBuilder boasts high convenience because it doesn't require bending or cutting, and also doesn't need a separate screw to keep it fixed.

Dr. Yun Jong-Il | Yeon Dental Clinic

- Kyunghee University, Dental medicine studies
- Clinical Professor & Expert, Seoul National University

Even first-time users can expect predictable bone regeneration using the SmartBuilder

Dr. Kim Yong-jin | Ilsan Apsun Dental Clinic

- Dankook University, Dental medicine studies
- Director, Concepts of Balanced Orthognathic Surgery of Korea

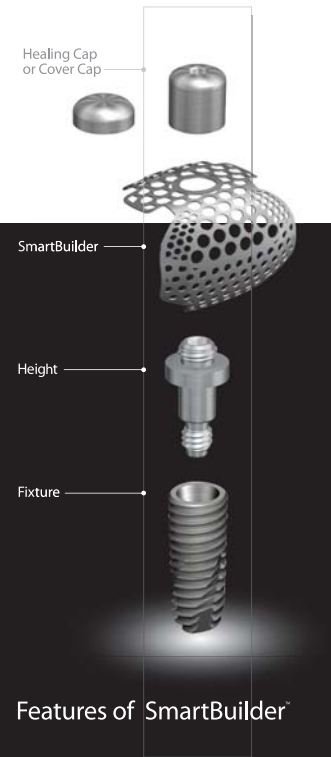
SmartBuilder is in a three dimensional form tailored to fit all types and sizes of the bone defect, meaning it's a completed form of titanium membrane that can be used without any additional adjustments.



A chance

PRACTICAL CLASSIFICATIONS

to experience functional beauty



Features of SmartBuilder™

A chance to meet refined technology

Built to promote bone formation

SmartBuilder is a non-absorbable, titanium membrane used to regenerate periodontal tissue. SmartBuilder promotes bone formation in areas where natural bone defect has occurred.

- Customized for all degrees of bone defect**

SmartBuilder is categorized as 1 wall augmentation, 2 wall augmentation, 3 wall augmentation according to the degree and form of bone defect. The membranes are then smart-adapted to fit the loss area.
- Designed to be profoundly user-friendly**

SmartBuilder is pre-formed 3D design that does not require additional trimming or bending.
- Punctured for better blood supply**

SmartBuilder is covered with pore-like holes to increase the blood supply of the surgical site.

Classification of SmartBuilder

Classification	SmartBuilder		P (Proximal)	BW (Buccal width)	BL (Buccal length)	BD (Buccal distance)	Code
	3D	Unfolded image					
1 wall augmentation			4	8	7	5.5	SM1W487SB
			4	10	7	5.5	SM1W4107SB
			4	10	9	5.5	SM1W4109SB
2 wall augmentation			7	9	7	5.5	SM2W797SB
			7	9	9	5.5	SM2W799SB
			10	12	7	5.5	SM2W10127SB
			10	12	9	5.5	SM2W10129SB
			12	12	7	5.5	SM2W12127SB
3 wall augmentation			7	9	7	5.5	SM3W797SB
			7	9	9	5.5	SM3W799SB
			10	12	7	5.5	SM3W10127SB
			10	12	9	5.5	SM3W10129SB
			12	12	7	5.5	SM3W12127SB
			12	12	9	5.5	SM3W12129SB

Suitable for all situations in all patient types

Choose product according to the form and degree of bone defect, and also gingival tissue volume.

Type	1 wall augmentation Buccal side bone defect	2 wall augmentation Buccal, Proximal(Mesial-Distal) side bone defect	3 wall augmentation Buccal, Proximal(Mesial-Distal) and Lingual side bone defect
3D Design			
Unfolded image			

※ 3 Types, 15 specifications