



# SmartBuilder™

Encounter true dental innovation with the 3D SmartBuilder™

**OSSTEM®**  
IMPLANT



A chance

DEFINITE ADVANTAGES

to expect more benefits

## The Smarter Solutions

### ● Smart handling

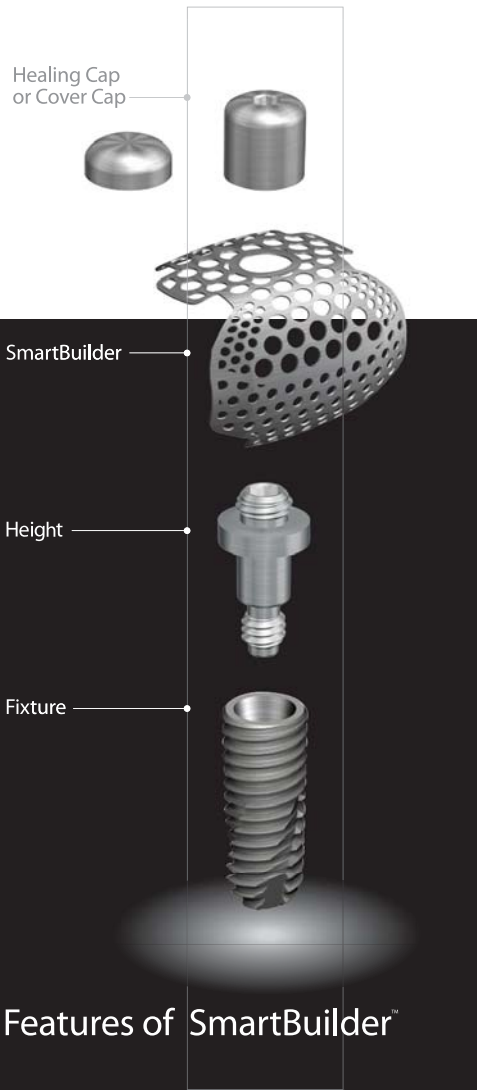
Instantly mold with ease, or just use as formed.  
Applicable for both one-stage and two-stage surgeries.  
Easily fit and remove.

### ● Smart healing

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



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.

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



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.



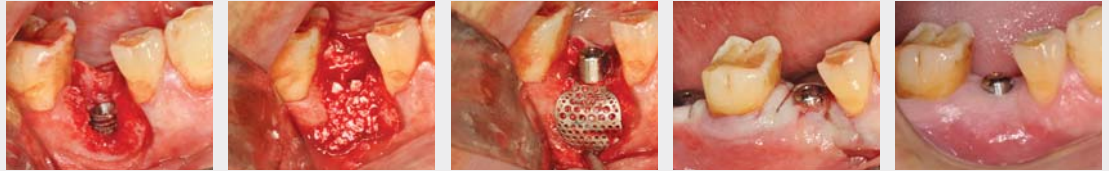
## Caution

- 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.

A chance  
to rely on credible technology

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-III | 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.





## PRACTICAL CLASSIFICATIONS

A chance

to experience functional beauty

## Classification of SmartBuilder

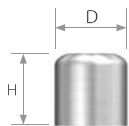
### SB1 Papilla Builder

Classification	SmartBuilder		P (Proximal)	BW (Buccal width)	BL (Buccal length)	BD (Buccal distance)	Code
	3D	Scallop shape					
7mm			7	3	5	5	SB1P73A
			7	5	5	5	SB1P75A
10mm			10	3	5.5	5.5	SB1P103A
			10	5	5.5	5.5	SB1P105A
12mm			12	3	6.5	6.5	SB1P123A
			12	5	6.5	6.5	SB1P125A

### SB2 Lateral Builder

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 Buccal-Proximal			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
2 wall augmentation Buccal-Lingual			12	12	9	5.5	SM2W12129SB
			5	9	7	5.5	SM2W597SE
			5	9	9	5.5	SM2W599SE
			7	12	7	5.5	SM2W7127SE
			7	12	9	5.5	SM2W7129SE
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

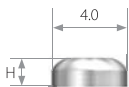
# Components



## Healing Cap (mm)

	Regular	
D \ H	3	4
Ø 4.0	SMHA443R	SMHA444R
Ø 5.0	SMHA553R	SMHA554R

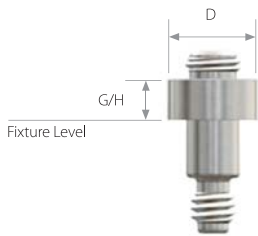
- 1 stage procedure
- Torque application : 5~8Ncm
- 1.2 Hex hand driver placement
- Ø 4.0: SB1, SB2 Compatible
- Ø 5.0: SB2 Compatible



## Cover Cap (mm)

	Regular
D \ H	1.5
Ø 4.0	SMCC415

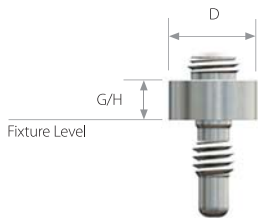
- 2 stage procedure
- Torque application : 5~8Ncm
- Cover cap driver placement



## Height (for TS) (mm)

	Mini	Regular
GH \ D	Ø 3.5	Ø 4.0
0.5	SMHI305TSM	SMHI405TSR
1.0	SMHI310TSM	SMHI410TSR
1.5	SMHI315TSM	SMHI415TSR
2.0	SMHI320TSM	SMHI420TSR
3.0	SMHI330TSM	SMHI430TSR

- 2 stage procedure
- Torque application : 12~15Ncm
- 1.2 Hex hand driver placement



## Height (for US) (mm)

	Mini	Regular	Wide	Wide PS
GH \ D	Ø 3.5	Ø 4.0	Ø 5.1	Ø 5.0
1.0	SMHI310USM	SMHI410USR	SMHI510USW	SMHI510USP
1.5	SMHI315USM	SMHI415USR	SMHI515USW	SMHI515USP
2.0	SMHI320USM	SMHI420USR	SMHI520USW	SMHI520USP
3.0	SMHI330USM	SMHI430USR	SMHI530USW	SMHI530USP

- 1.2 Hex hand driver placement
- Torque application : 12~15Ncm



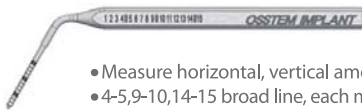
## Cover Cap Driver Ejector Set

	Short	Long
Code	SMCDESS	SMCDES

- Cover cap placement
- Friction placement structure
- Remove cover cap with Cap ejector
- Cap driver and Cap ejector set

## Defect Gauge

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

