

CLASSIFICATION OF SMARTBUILDER

							(mm)
Classification	SmartBuilder		Р	BW	BL	BD	
	3D	Unfolded Image	(Proximal)	(Buccal width)	(Buccal length)	(Buccal distance)	Code
1 wall augmentation	BD	BW	4	8	7	5.5	SM1W487SB
			4	10	7	5.5	SM1W4107SE
			4	10	9	5.5	SM1W4109SE
	BD	BW	7	9	7	5.5	SM2W797SB
2 wall augmentation			7	9	9	5.5	SM2W799SB
			10	12	7	5.5	SM2W10127SB
			10	12	9	5.5	SM2W10129SB
			12	12	7	5.5	SM2W12127SB
			12	12	9	5.5	SM2W12129SB
	BD	BW	7	9	7	5.5	SM3W797SB
3 wall augmentation			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

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.

• Customised for all degrees of bone defect

SmartBuilder is categorised 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

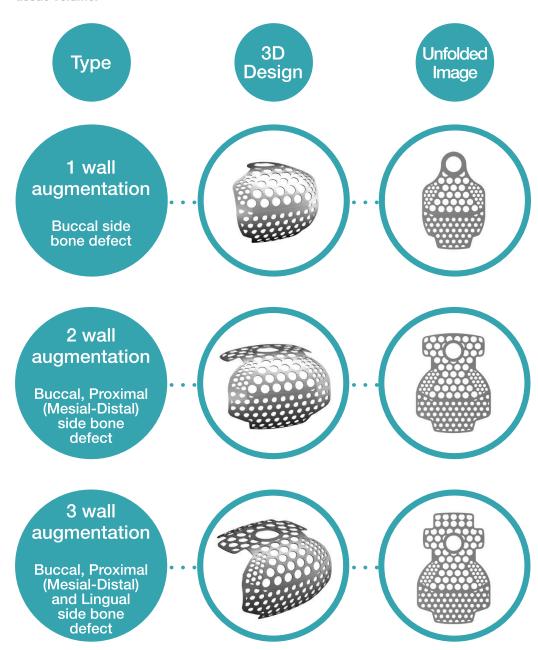
SmartBuilder is pre-formed 3D design that does not require additional trimming or bending.

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.



SMARTER SOLUTIONS

Smart Handling

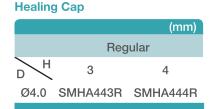
• Instantly mould with ease, or just use as formed. Applicable for both one-stage and two-stage surgeries. Easily fit and remove.

Smart Healing

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

COMPONENTS





- Regular 1.5 Ø4.0 SMCC415
- 1 stage procedure Torque application: 5~8Ncm
- 1.2 HEX hand driver placement

• 2 stage procedure • Torque application: 5~8Ncm

Cover Cap

(mm)

• Cover Cap driver placement

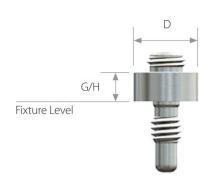
Extension (for TS)



		(mm)
	Mini	Regular
H	Ø3.5	Ø4.0
0.5	SMHI305TSM	SMHI405TSR
1.0	SMHI310TSM	SMHI410TSR
1.5	SMHI315TSM	SMHI415TSR
2.0	SMHI320TSM	SMHI420TSR
2.5	SMHI325TSM	SMHI425TSR
3.0	SMHI330TSM	SMHI430TSR
		0

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

Extension (for US)



				(mm)
	Mini	Regular	Wide	Wide PS
H D	Ø3.5	Ø4.0	Ø5.1	Ø5.0
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



- 12345578988HI2DHBS OSSTEM IMPLANT
- Measure horizontal, vertical amount of bone defect
- 4-5, 9-10, 14-15 broad line, each marked in 1mm units

USER GUIDE

- Check the area of bone defect and select product
- Using a defect gauge, measure the horizontal and vertical bone defect of the surgical site to select the right type:







- Select the type of extension based on the vertical bone defect and place the Extension on the Implant. Use a 1.2 Hex driver to tighten the Extension in place with Torque applications of 12~15Ncm
- Graft the necessary amount of bone where the bone defect has occurred
- Place the selected SmartBuilder over the Extension. Bend or trim the product to fit the area of bone defect before fixing the SmartBuilder in place
- 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.
- Suture the gum of the surgical site closed
- Remove the Healing Caps or Cover Caps once the bone regeneration process has been completed. It's easier to remove the Extension using a 1.2HEX driver as the SmartBuilder will be simultaneously removed.
- Sequence of user's guide:



Buccal, Proximal (Mesial-Distal) and Lingual side bone defect



Connected with Extension



Bone Healing



SmartBuilder adaption and connected with Healing Cap



Procedure completed

CAUTION

- The SmartBuilder, Extension, Healing Caps or Cover Caps must all be gamma irradiation sterilized and be disposed of after single use
- Product must not be used for any other than GBR procedures
- All surgical equipment must be sterilised in an autoclave before use. (For a duration of 15 minutes at a temperature of 132 degrees Celsius)
- Undergo procedures as required per case, but extreme procedures my 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 Acro Implant Centre

- Chosun University, Dental Medicine studies
- Director, A.T.C Implant training session
- Chief, OMS (Oral and Maxillofacial surgery) centre, 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 Yun 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 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.