SmartBuilder™

Encounter true dental innovation with the 3D SmartBuilder™

OSSTEM
IMPLANT

OSSTEM
IMPLANT

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SmartBuilder™
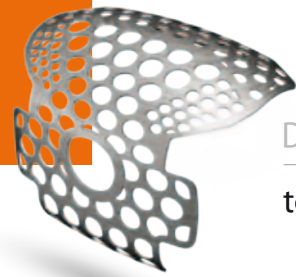
A chance to expect more benefits
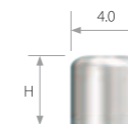
The Smarter Solutions

● **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.
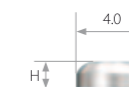Sufficiently solid for reliable bone healing and regeneration.

Components

Healing Cap   (mm)

	Regular	
D / H	3	4
Ø 4.0	SMHA443R	SMHA444R

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

Cover Cap   (mm)
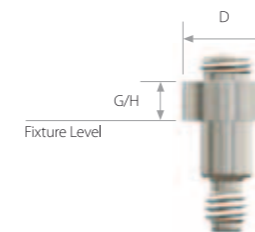
	Regular
D / H	1.5
Ø 4.0	SMCC415

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

Extension(for TS)   (mm)

GH / D	Mini Ø 3.5	Regular Ø 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

Fixture Level

- 2stage procedure　• Torque application : 5~8Ncm
- Cover cap driver placement　• SB, SB2 Compatible
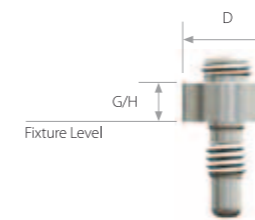
Extension(for US)   (mm)

GH / D	Mini Ø 3.5	Regular Ø 4.0	Wide Ø 5.1	Wide PS Ø 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

Fixture Level

- 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

Cover Cap Driver　Cap Ejector
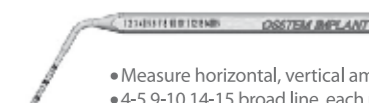
Defect Gauge

Code	SMDG

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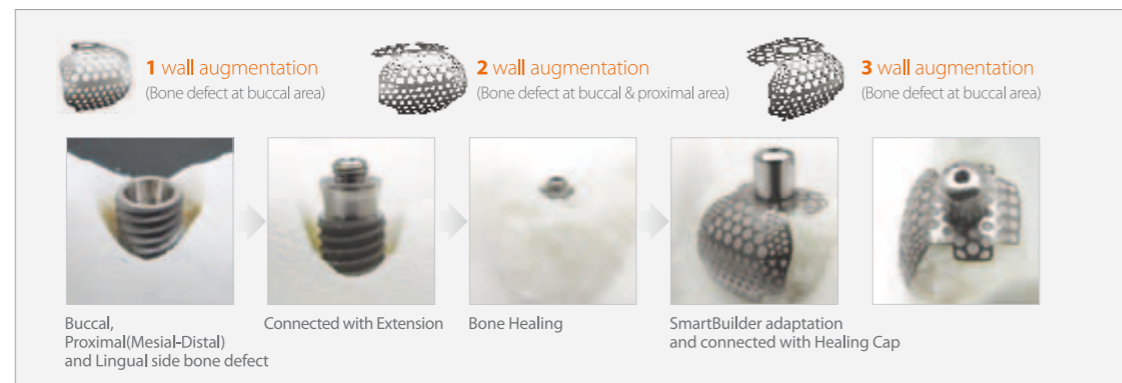- 4-5,9-10,14-15 broad line, each marked in 1mm units

SIMPLE ADAPTATION

A chance   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 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.

4. Graft the necessary amount of bone where the bone defect has occurred.

5. 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.

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 Extension using a 1.2Hex driver as the SmartBuilder will be simultaneously removed.

1 wall augmentation
(Bone defect at buccal area)

2 wall augmentation
(Bone defect at buccal & proximal area)

3 wall augmentation
(Bone defect at buccal area)

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

Connected with Extension

Bone Healing

SmartBuilder adaptation
and connected with Healing Cap

Caution

1. The SmartBuilder, Extension, 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
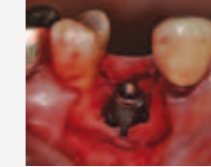   to cause infections and impair bone formation.
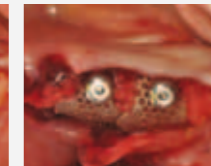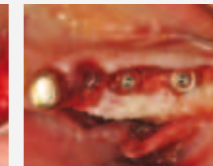
Dr. Jo yong-suk | Apsun Dental Clinic
● Seoul National University, Dental medicine studies
● Clinical Professor, Chungbuk university   ● Clinical Professor, Seoul National University

SmartBuilder is a highly useful material that has renewed the previous perceptions of titanium mesh
and can be easily applied to different clinical cases.
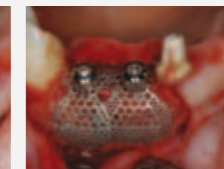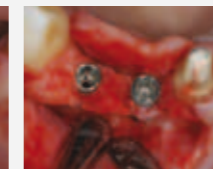
Dr. Jun In-sung | H Dental Clinic
● Seoul National University, Dental medicine studies
● Exchange Professor, Harvard University   ● Clinical Professor, Seoul National University

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-Ill | Yun Dental Clinic
● Kyunghee University, Dental medicine studies
● Clinical Professor & Expert, Seoul National University
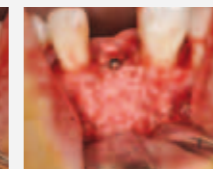
Even first-time users can expect predictable bone regeneration using the SmartBuilder
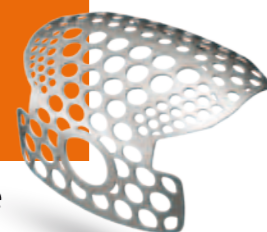
Dr.Kim Yong-jin | Apsun Dental Clinic
● Dankook University, Dental medicine studies
● Director, Concepts of Balanced Orthognathic Surgery of Korea
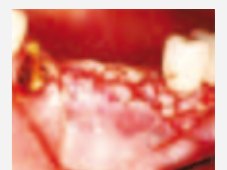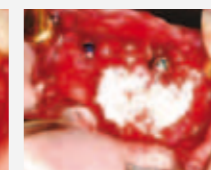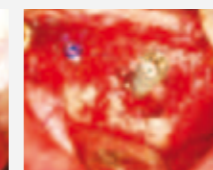
SmartBuilder is in a three dimensional form tailored to fit all types and sizes of the bone defect,
meaning it's a completed form of titanium membrane that can be used without any additional adjustments.
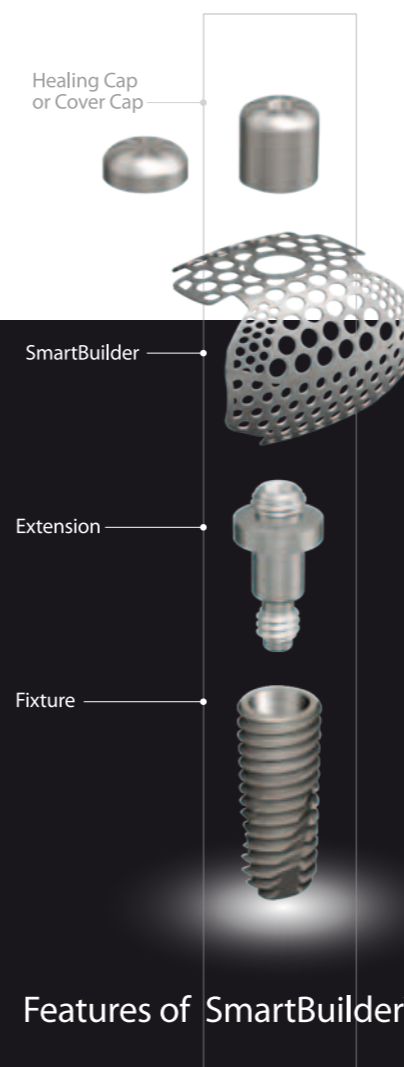
A chance   to meet refined technology

Healing Cap
or Cover Cap

SmartBuilder

Extension

Fixture

Features of SmartBuilder™

A chance   to experience functional beauty

Built to promote bone formation

SmartBuilder is a non-absorbable, titanium membrane used to regenerate periodontal tissue. SmarBuilder 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

(mm)

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
			12	12	9	5.5	SM2W12129SB
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