

**MATTRESS.**  
PRESSURE CARE THERAPY

# 1 NSBS HISTORY

## CREATION 2015-2017

- Establishment and Medical Device Approval Process

### 2015

- 06 Selection for Item Commercialization at Leading Startup Universities
- 07 Founded NSBS Co., Ltd.

### 2016

- 01 Factory registration
- 06 Medical Device GMP Certification
- 08 Medical Device Approval Completed
- 12 Designated as Excellent Senior-Friendly Product – Two Types of Pressure Ulcer Prevention Cushions

### 2017

- 06 Awarded the Minister of Health and Welfare's Prize
- 10 Selected for Startup Growth R&D Program by the Ministry of SMEs and Startups
- 12 Obtained approval for welfare apparatus by the National Health Insurance Corporation (NSBS-b1416)



## GROWTH 2018-2021

Commercialization of bedsores prevention cushion as the main product

### 2018

- 07 Certification of Three Medical Devices
- 08 Obtained approval for welfare apparatus by the National Health Insurance Corporation (NSBS-bm1416)
- 09 Japan H.C.R exhibition  
(Hosted by the Korea Health Industry Development Institute)

### 2019

- 03 2 types of bedsores prevention cushions registered as assistive technology devices by the Korea Employment Promotion Agency for the Disabled
- 04 Add medical device certification items  
(Bedsores prevention mattress,  
2 types of bedsores prevention cushions)
- 05 Dongguk University Ilsan Hospital Open Laboratory  
Partner Company Selection
- 09 Germany REHACARE exhibition  
(Hosted by the Korea Health Industry Development Institute)

### 2020

- 05 Japanese patent registration
- 10 US patent registration
- 12 Awarded the Minister of Health and Welfare's Prize

### 2021

- 04 Obtained approval for welfare apparatus by the National Health Insurance Corporation (NSBS-LS4475)
- 09 Obtained approval for welfare apparatus by the National Health Insurance Corporation (NSBS-PC5033)

## EXPANSION 2022-

Entering overseas markets and expanding new production infrastructure

### 2022

- 05 Obtained approval for welfare apparatus by the National Health Insurance Corporation (NSBS-PT200, PT150)
- 08 Factory construction and headquarters relocation
- 09 Germany REHACARE exhibition  
(Hosted by the Korea Health Industry Development Institute)

### 2023

- 06 Obtained approval for welfare apparatus by the National Health Insurance Corporation (NSBS-4WAY88)
- 09 Germany REHACARE exhibition  
(Hosted by the Korea Health Industry Development Institute)

## 2 ABOUT NSBS

### | OUR VALUE



#### **A company that started with a small idea and set the standard for self-inflating pressure ulcer prevention cushions through continuous innovation.**

NSBS is dedicated to developing and supplying safe and comfortable cushions based on consumer needs, with the ultimate goal of enhancing the quality of life for its customers. The NSBS brand sets the standard in the field of self-inflating pressure ulcer prevention cushions and consistently delivers a special magic that touches people's lives



#### **A company that evolves through continuous investment**

NSBS's culture is built on a pioneering spirit that encourages courage and decisiveness in forging new paths. The company is passionate about developing products that meet the diverse demands of consumers, backed by patents and technical expertise. By modernizing its production facilities and establishing efficient production and quality management systems, NSBS is continuously evolving



#### **Products that consumers can recommend from experience**

NSBS has realized customers' dreams under the shared values of design, functionality, performance, sustainability, and premium quality. From the very beginning, NSBS has placed great importance on providing a personal experience. Consumers who experience our products remember their structure and function, and those who are impressed often visit our booth and confidently explain the products to their acquaintances. NSBS products are recognized by consumers who truly appreciate their value

# CERTIFICATION



HMV 11.39.03.3012



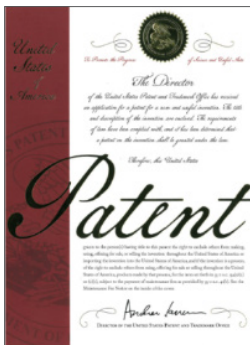
MHRA



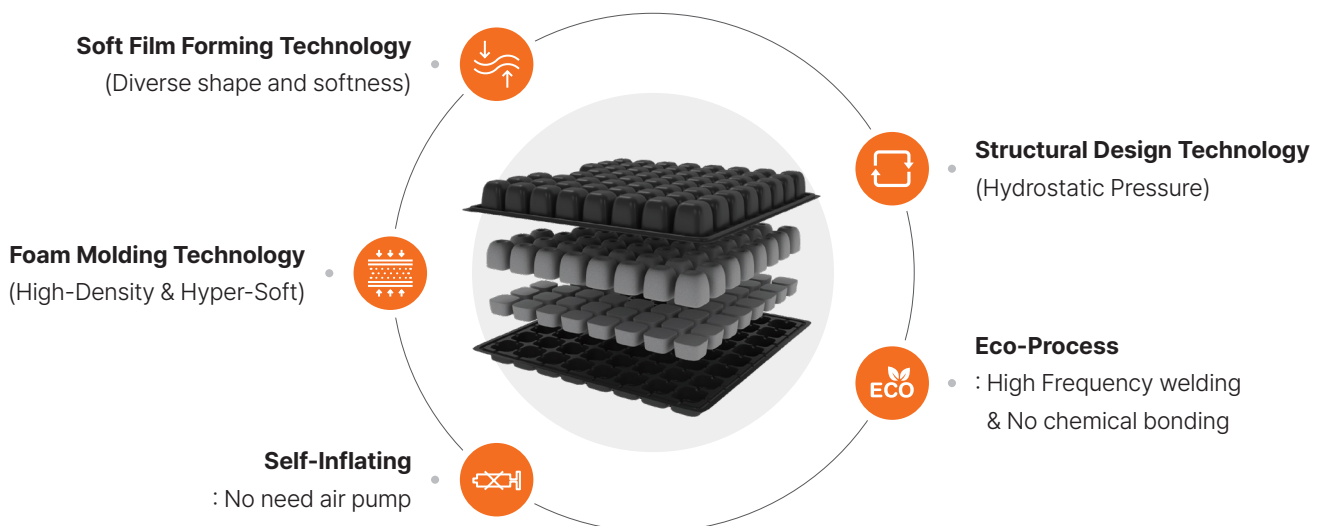
CE MDR



ISO13485



# CORE TECHNOLOGY



# 3 CUSHION HISTORY

## 1st GENERATION INNOVATION

Innovative hybrid design,  
combining air & foam, and upper & lower cell structure

SINCE 2018

bm1416 / bim1416 / sbim1416



### BRICK Cushion

- Innovative upper & lower cell structure
  - interface pressure distribution
- Self inflating system : High-density molded foam
  - Convenient usability
- High risk

## 2nd GENERATION OPTIMIZATION

Upgraded to **optimized air circulation**  
through 4WAY air flow and optimal round cell shape

SINCE 2021

4WAY88 / 882 / 884

4WAY89 / 892 / 894



### SOOTHING Cushion

- Optimal 4WAY Air circulation passage
  - : Optimal airflow + Smooth distribution
- Optimal round cell shape
  - : Minimize contact pressure
- High risk

## 3rd GENERATION MAXIMIZATION

Maximized pressure distribution effect,  
through arch-shaped cell shape and maximized cell height

SINCE 2023



CM66 / CMB4710

### COZY Cushion

- Arch-shaped reverse trapezoidal cell design for maximum pressure relief
- Overwhelming pressure distribution test figures
  - Class G certification
- High risk

## 4th GENERATION INDIVIDUALIZATION

Upgrade to an **independent control system**,  
maximizing usability for various user's situations

SINCE 2024



TM4WAY

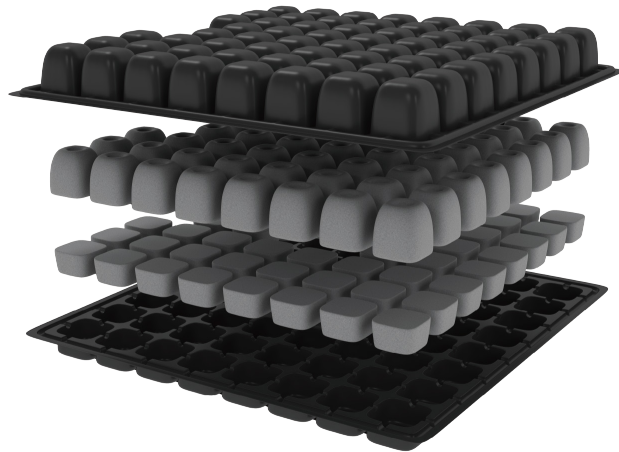
TM3WAY

### THERAPY Cushion

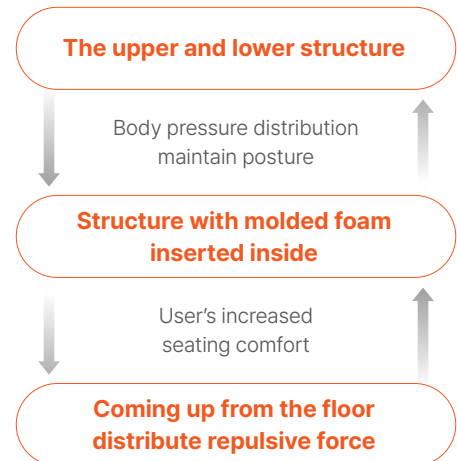
- TM4WAY
  - : 4-zone individual control
  - Left \* Right \* Thigh \* Buttocks
- TM3WAY
  - : 3-zone individual control
  - Left & Right & Center Sacrum
- High risk

## 4 CORE TECHNOLOGY

### Upper-Lower Cell Structure



The Upper and Lower cell structure for effective pressure distribution

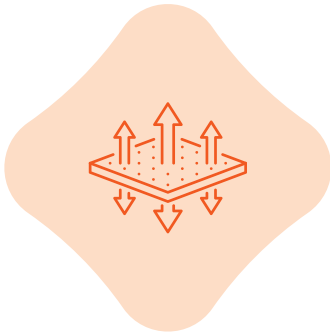


### All-WAY air circulation for Optimal Air Flow

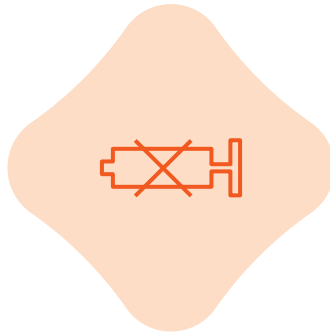




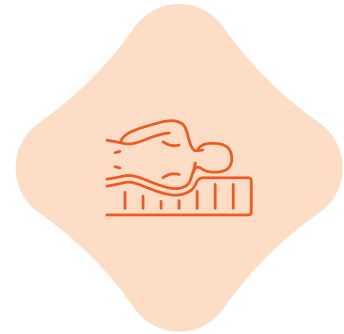
## High-Density Molded Foam



Functional foam for optimal  
(or uninterrupted) air flow



Self-inflating  
No need air pump



Balancing softness and stability  
with high-density, low-elasticity

## Unique Cell Design



### High-Density Molded Foam

Provides stability and a snug fit with high-density foam inserts shaped like the air cells.



### Film Forming

Soft-touch film molding technology creates various upper and lower shapes, offering a gentle feel that protects the skin while ensuring personalized comfort and support



## High Quality Cover

- Easy-to-clean and highly durable silicone-coated Cover
- Soft-touch silicone-coated cover
- Fire-resistant silicone-coated cover
- User-oriented design for easy operation



# 5

# PRESSURE CARE

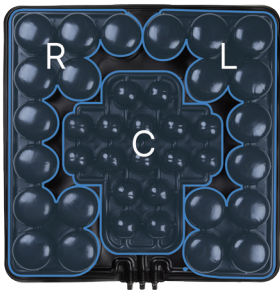
## TM3WAY

- 3 Zone Control : Left + Right + Sacrum & Perineum
- Self inflating system
- Customizable Personal Control
- High Risk
- Pain relief effect

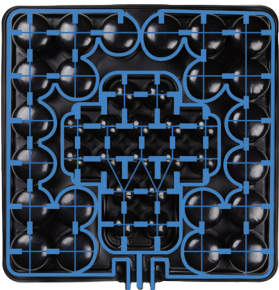


### FEATURES

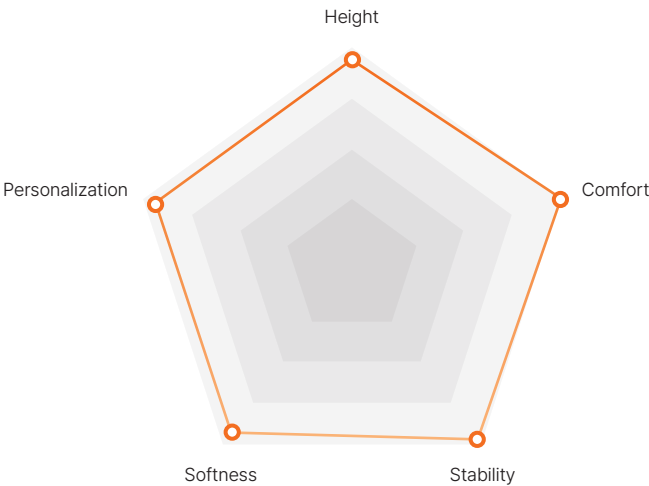
#### 3 SECTION CONTROL



#### Optimal Air Flow



#### Combination of Two Cell Design



### SPECIFICATION

Model	Number of Valves	WxD(cm)	H(cm)	Weight(g)
NSBS-TM3WAY	3 Valves	44 x 44	8~10	1450 ± 100

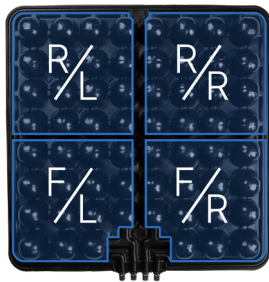
# TM4WAY

- 4 Zone Control : Left \* Right
- Self inflating system
- \* Thigh \* Buttocks
- High Risk
- Customizable Personal Control

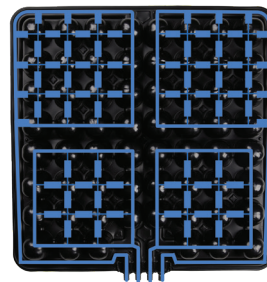


## FEATURES

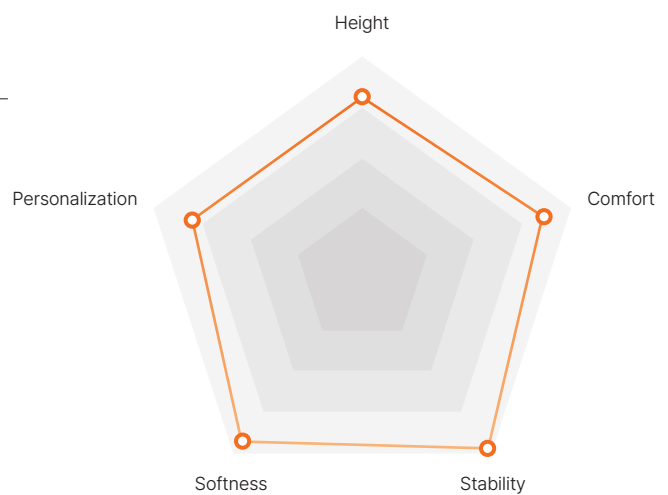
### 4 SECTION CONTROL



### Optimal Air Flow



### Innovative High-Density Molded Foam



## SPECIFICATION

Model	Number of Valves	WxD(cm)	H(cm)	Weight(g)
NSBS-TM4WAY	4 Valves	44 x 44	8	1500 ± 100

# 5 PRESSURE CARE

## Cozy Cushion

- Arch-shaped reverse trapezoidal cell
- Self inflating system
- Broadened round shape & air chamber
- High Risk

### FEATURES



#### Open Cell Arrangement



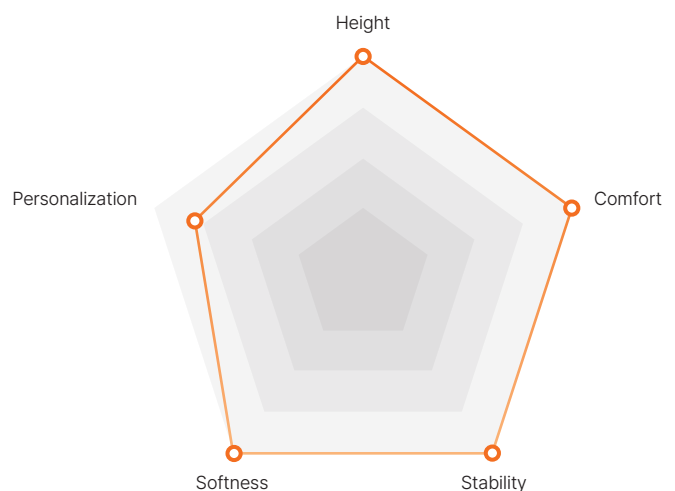
#### Arch-shaped Air Chamber



#### All-WAY Air Circulation System



#### Arched Inverted Trapezoidal Cell Shape



### SPECIFICATION

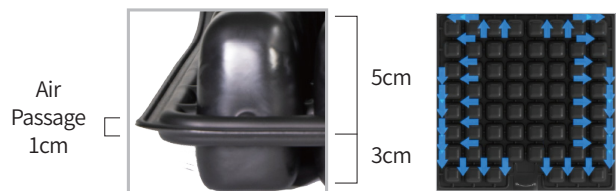
Model	Number of Valves	WxD(cm)	H(cm)	Weight(g)
NSBS-CM66	1 Valve	44 x 44	10	1,700 ± 100

# Soothing Cushion

- Optimal All-WAY  
Air circulation passage
  - Optimal round cell shape &  
Minimize contact pressure
- Self inflating system
  - High Risk

## FEATURES

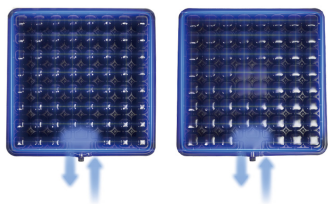
### Enhanced Air Circulation



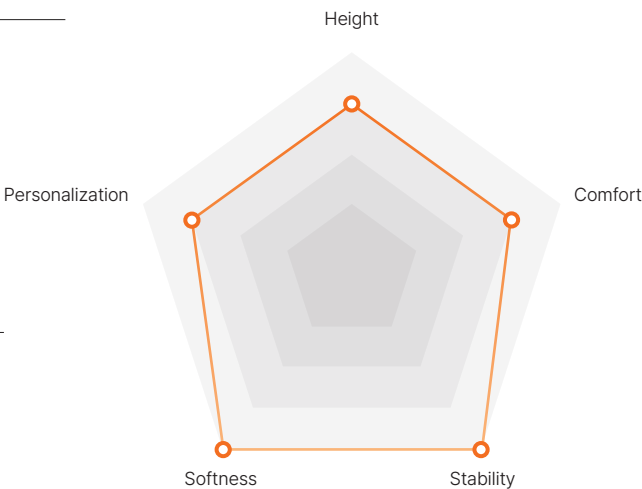
### Innovative High-Density Molded Foam



### Efficient Body Pressure Distribution With All-WAY A.C.S



### Unique Rounded Cell Design



## SPECIFICATION

Model	Number of Valves	WxD(cm)	H(cm)	Weight(g)
NSBS-4WAY88	1 Valve	44 x 44	8	2,000 ± 100
NSBS-4WAY89	1 Valve	44 x 44	8	2,150 ± 100
NSBS-4WAY882	1 Valve	44 x 44	10	1,450 ± 100
NSBS-4WAY884	1 Valve	44 x 44	10	1,450 ± 100
NSBS-4WAY892	1 Valve	49 x 44	10	1,550 ± 100
NSBS-4WAY894	1 Valve	49 x 44	10	1,550 ± 100

# 5 PRESSURE CARE

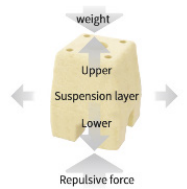
## Brick Air Cushion

- Innovative upper & lower cell structure
- Self inflating system
- Stable pressure distribution
- High Risk

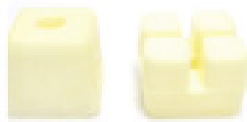


### FEATURES

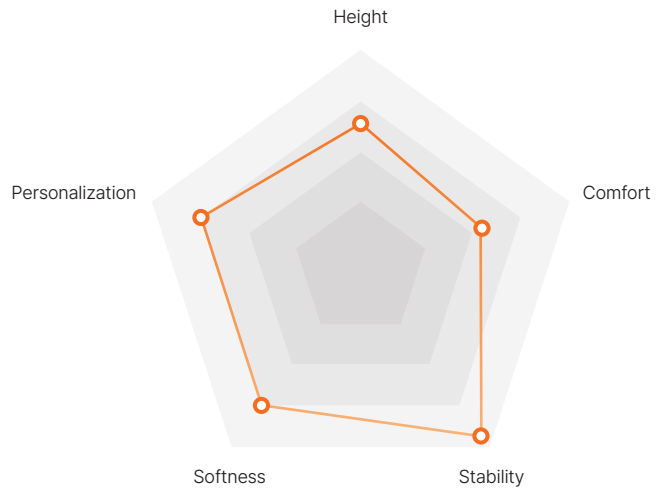
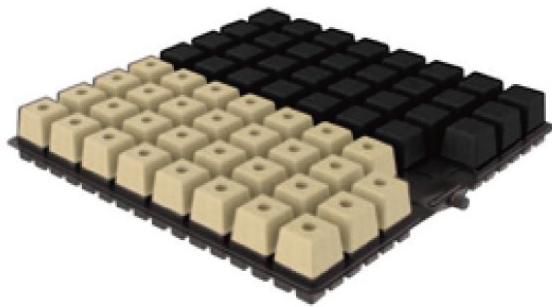
#### Premium High-Density Molded Foam



Skin contact points



#### Open Cell Arrangement



### SPECIFICATION

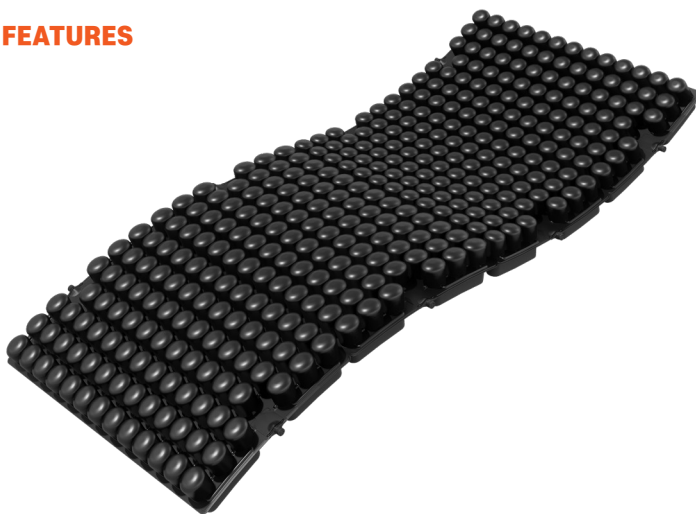
Model	Number of Valves	WxD(cm)	H(cm)	Weight(g)
NSBS-bim1416	1 Valve	42 x 42	6.5	1.650 ± 100
NSBS-sbim1416	1 Valve	40 x 36	6.5	1.400 ± 100
NSBS-bm1416	2 Valve	42 x 42	6.5	1.700 ± 100



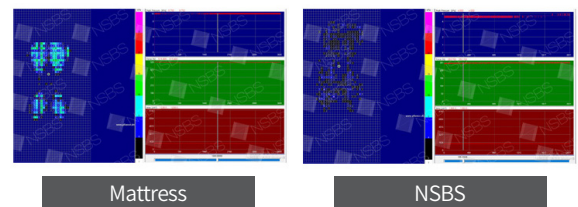
# Cozy\_Mattress

- Arch-shaped reverse trapezoidal cell
- Ergonomic cell height structure design
- Overwhelming pressure distribution test figures
- Self inflating system
- High Risk

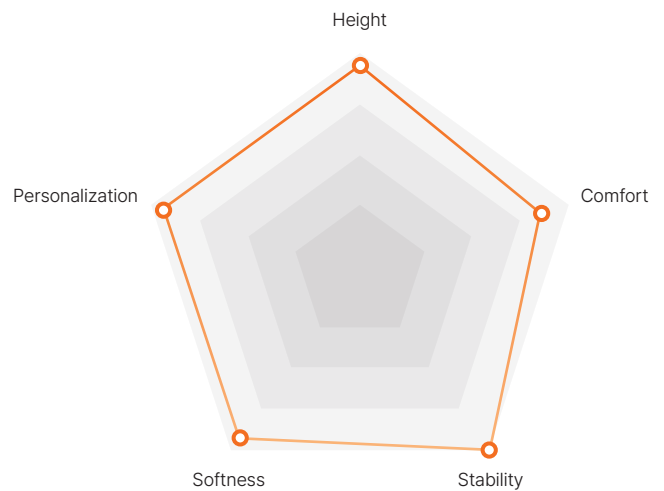
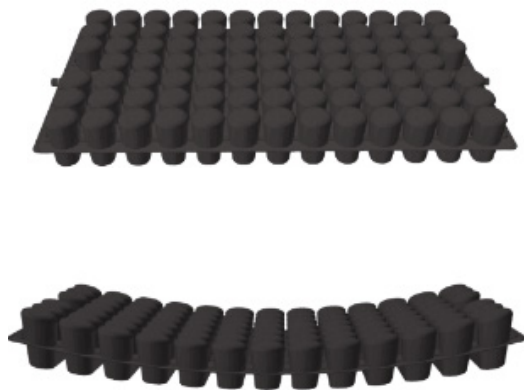
## FEATURES



### Before & After



\*Class G certification



## SPECIFICATION

Model	Number of Valves	WxD(cm)	H(cm)	Weight(Kg)
NSBS-CMB4713	2 Valve	1,900 x 90	11.5~10	16 ± 1



## CUSTOM ORDER SYSTEM

### How to order NSBS Pressure Care Cushion

- 1 Select Product Design
- 2 Select Film Thickness
- 3 Select Foam Hardness

#### STEP1 Select Product Design

Product Line	Model	Image	Specification
Therapy Cushion	NSBS-TM4WAY		<b>Size</b> 44 × 44 × 8(cm) <b>Weight</b> 1500± 100g <b>Number of Valves</b> 4
	NSBS-TM3WAY		<b>Size</b> 44 × 44 × 10(cm) <b>Weight</b> 1450± 100g <b>Number of Valves</b> 3
Cozy Cushion	NSBS0-CM66		<b>Size</b> 44 × 44 × 11(cm) <b>Weight</b> 1800± 100g <b>Number of Valves</b> 1
Brick Air Cushion	NSBS-bm1416		<b>Size</b> 42 × 42 × 6.5(cm) <b>Weight</b> 1700± 100g <b>Number of Valves</b> 2
	NSBS-bim1416		<b>Size</b> 42 × 42 × 6.5(cm) <b>Weight</b> 1650± 100g <b>Number of Valves</b> 1
	NSBS-sbim1416		<b>Size</b> 40 × 36 × 6.5(cm) <b>Weight</b> 1400± 100g <b>Number of Valves</b> 1

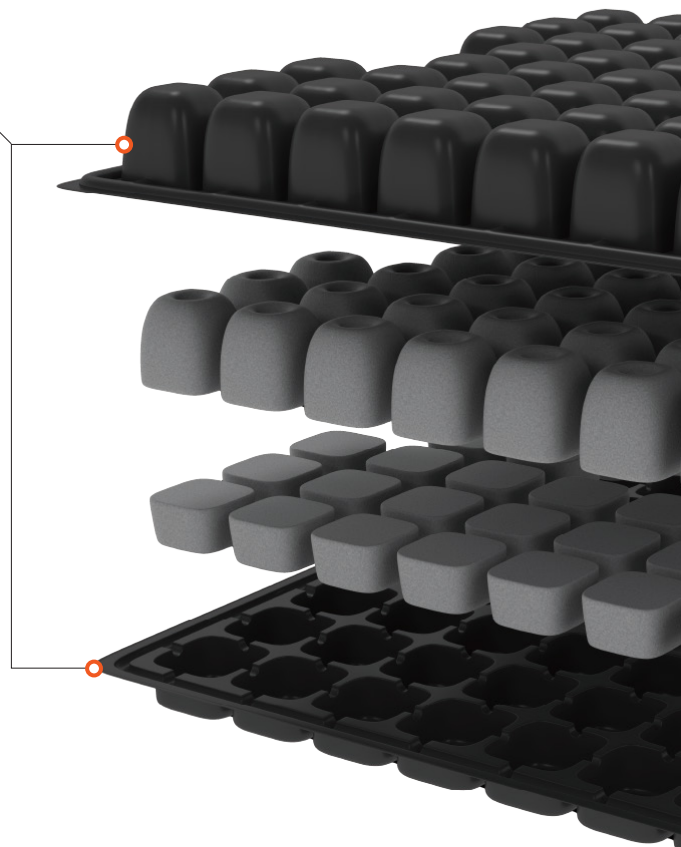
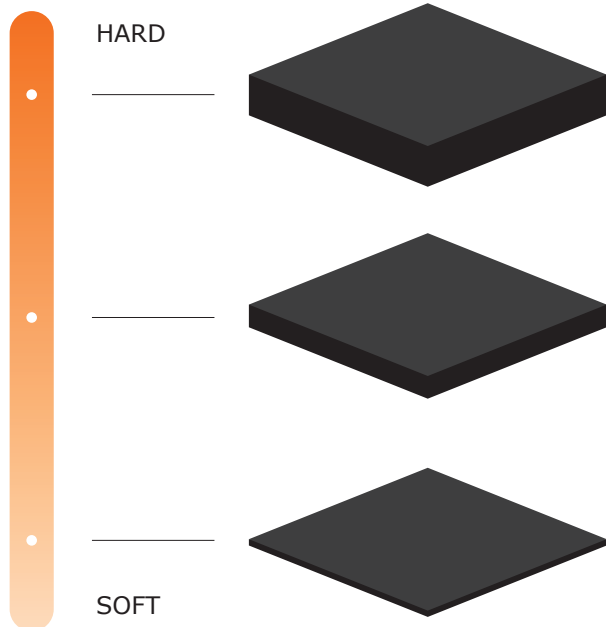


Product Line	Model	Image	Specification
Soothing Cushion	NSBS-4WAY88		<b>Size</b> 44 × 44 × 8(cm) <b>Weight</b> 2000± 100g <b>Number of Valves</b> 1
	NSBS-4WAY89		<b>Size</b> 49 × 44 × 8(cm) <b>Weight</b> 2150± 100g <b>Number of Valves</b> 1
	NSBS-4WAY882		<b>Size</b> 44 × 44 × 9(cm) <b>Weight</b> 1450± 100g <b>Number of Valves</b> 1
	NSBS-4WAY884		<b>Size</b> 44 × 44 × 9 (cm) <b>Weight</b> 1450± 100g <b>Number of Valves</b> 1
	NSBS-4WAY892		<b>Size</b> 49 × 44 × 9(cm) <b>Weight</b> 1550± 100g <b>Number of Valves</b> 1
	NSBS-4WAY894		<b>Size</b> 49 × 44 × 9(cm) <b>Weight</b> 1550± 100g <b>Number of Valves</b> 1

# 6 CUSTOM ORDER SYSTEM

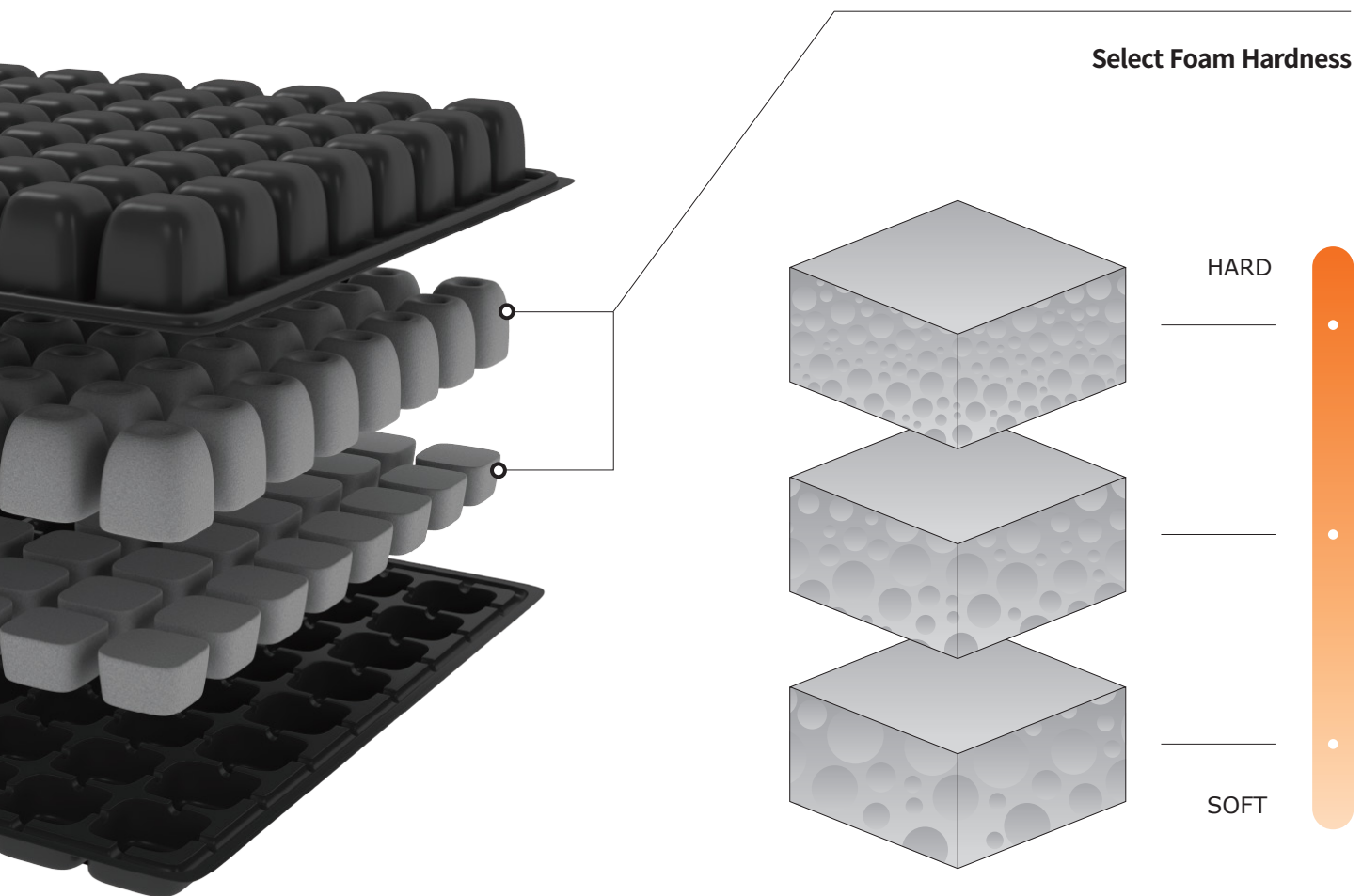
## STEP2

Select Film Thickness



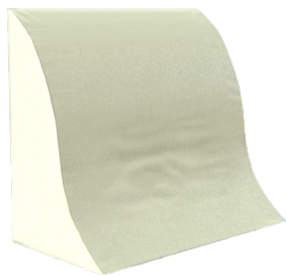
## STEP3

## Select Foam Hardness



Sfit Posture Change Equipment

NSBS-PC5033



Size

56 × 51 × 35(cm)

Weight

5 ± 5% kg

NSBS-PC1570



Size

150 × 7 × 8(cm)

Weight

180±20g

NSBS-PC7027



Size

69 × 27 × 12(cm)

Weight

2,000± 50g

NSBS-PC2210



Size

21.5 × 10 × 31.5(cm)

Weight

530±30g

NSBS Safety Handle

NSBS-LS4475



Size

44 × 3.5 × 7.5(cm)

Weight

737g  
(Batteries Included)

Safe Working Load

80kg



Urinary Incontinence Panties

WOMAN’S

NSBS-PT30      Absorption Capacity | 30cc



NSBS-PT50      Absorption Capacity | 50cc



NSBS-PT150      Absorption Capacity | 150cc



NSBS-PT200      Absorption Capacity | 200cc



MEN’S

NSBS-PT30      Absorption Capacity | 50cc



NSBS-PT50      Absorption Capacity | 50cc

