

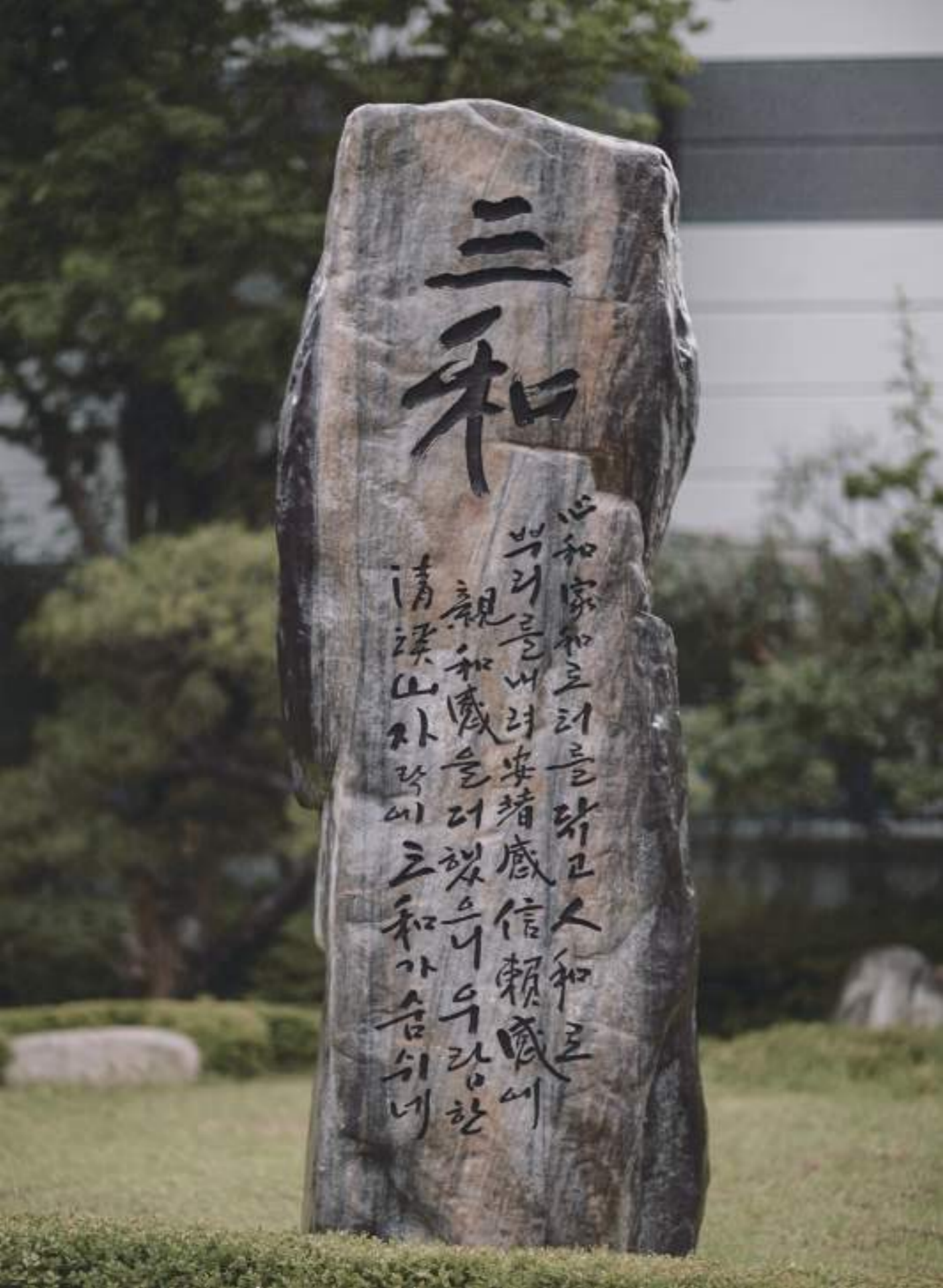
# SAMHWA

2022  
SAMHWA  
RESEARCH &  
DEVELOPMENT



SAMHWA

**2022 SAMHWA  
RESEARCH AND DEVELOPMENT**



## Corporate philosophy

For the past 40 years following our motto, integrity, humility and creativity, Samhwa has been at the forefront in domestic cosmetic packaging market.

Instead of pursuing a rapid growth, Samhwa steady and consistently focused in creativeness for innovation with continuous investment in our R&D and was able to promote and introduce GLOBAL MEGA HIT innovative product.

However over the past 40 years, the most significant growth driver was the pursue of our company motto to make wise decisions within fast-changing internal and external environmental factors.

Samhwa co., Ltd envision a right path toward the future with new synergies to continuously bring innovative product to our customers.



## **R&D philosophy**

Samhwa started business with mold engineering. Over 40 years of capitalized knowhow on mold engineering and technology bring Samhwa to lead and continuously innovate by developing top leading airless and airtight cosmetic products. Based on our expertise in mold engineering and technology, our R&D is concentrating on developing new innovative product with high quality standard and competitiveness within the cosmetic industry.

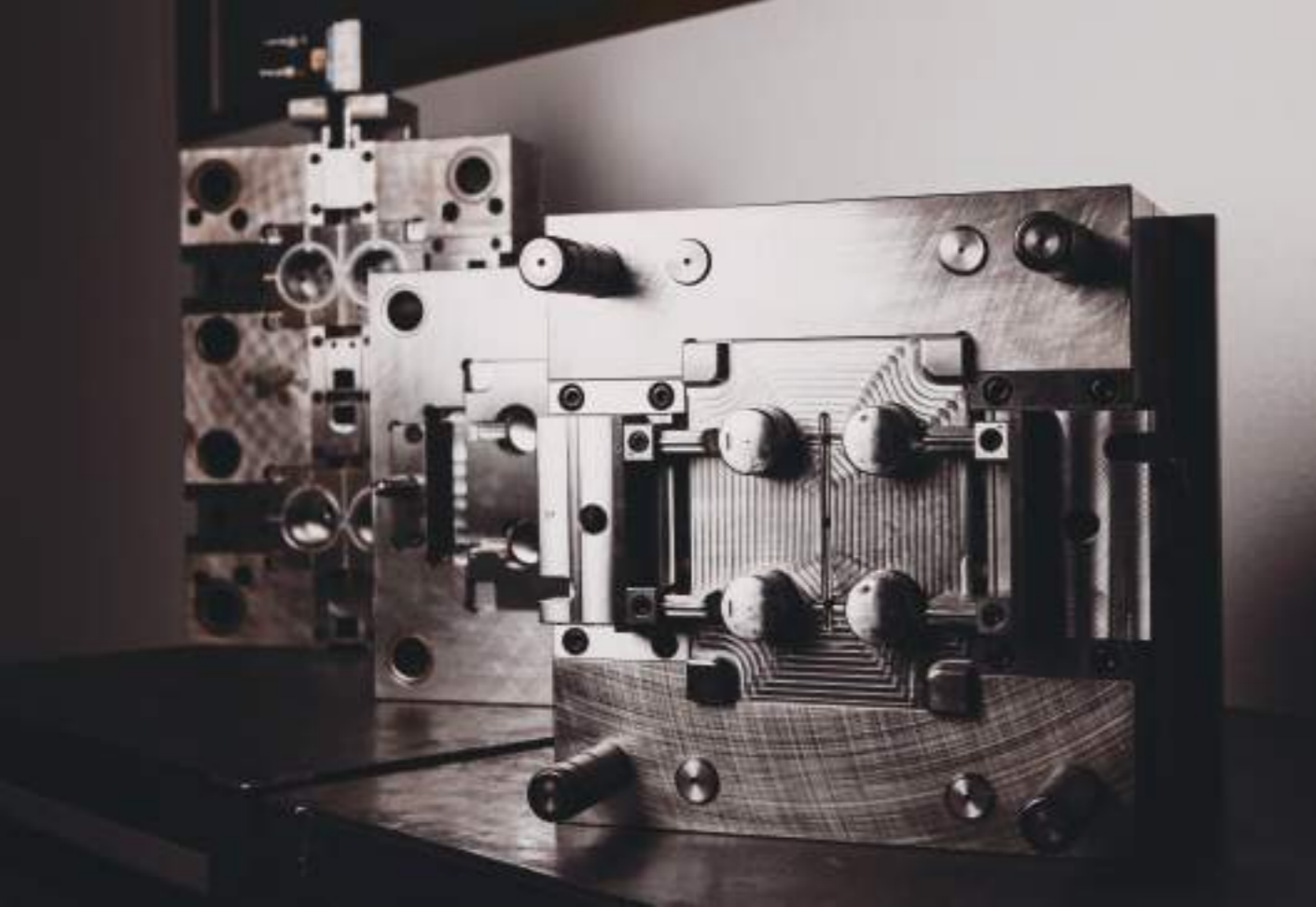
Lately, we have focused on developing INNO-ECO-Products following the current market trend of favoring eco-friendly products satisfying the 3R aspects (Recycle / Reduce / Reuse). As a result of huge efforts, we were able to successfully develop a new pumping technology and a refill system structure that can combine simplicity and convenience of use. Through the progress, we have taken a step closer to our aim to satisfy the customer and as well consumer who use SAMHWA product.

INNO-ECO-Products are safe for brands, consumers, and environment. Samhwa will offer the right quality of products to fulfil the customer's complete satisfaction.



三和

三和  
清親  
深和  
山外  
外  
心  
三  
和  
信  
人  
賴  
分  
會









Samhwa is promptly handling the entire processes with an all-in-house system.  
In addition, from cosmetics and daily supplies to medicine and medical supplies, Samhwa is a comprehensive plastic manufacturer that designs, produces and sells plastic-based everyday tools, which make up an irreplaceable part of our lives.  
Considering environment and future, Samhwa is researching & developing BLOW / ECO PUMP / CUSHION products and introducing them under Samhwa's packaging Mazel brand.

# new developments in samhwa



2022 SAMHWA R&D

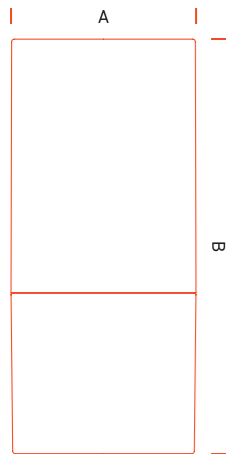
## INNOVATION

SAMHWA keep pushing technical boundaries in each of our new innovative products to combine rapid changing consumer beauty trend needs and sustainable responsibility with the goal to make a step closer in our aim to satisfy our customers and as well consumers who will use SAMHWA innovation.

# NEW DEVELOPMENTS

## Refillable Stick

Refill stick container with airtight function to keep the contents fresh



### SAI-15BM-01-A

**Volume**  
15g

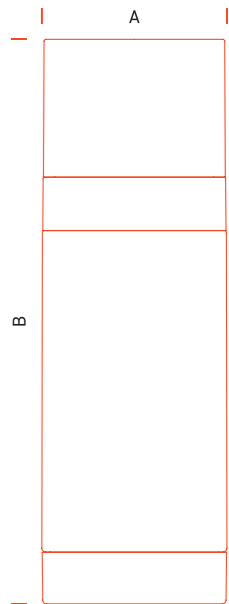
**Size**  
A:  $\varnothing$ 35mm / B: 82mm

**Material**  
All parts PP

# NEW DEVELOPMENTS

## Master Blending

A container that can be used by mixing the formulas by controlling the discharge amount ratio of the two formulas



### DMA-45DM-01-A

**Volume**  
80ml (40+40)

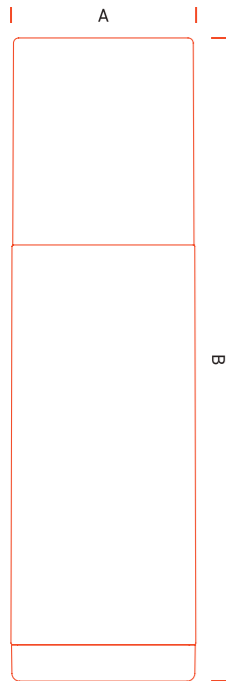
**Size**  
A:  $\varnothing$ 48mm / B: 149mm

**Material**  
Outer Body: PETG  
Other parts: PP

# NEW DEVELOPMENTS

## TL Focus

A new crystal clear package with a centered flow but without the need of straw or piston



### ETL-50CM-01-B

**Volume**  
50ml

**Size**  
A:  $\varnothing$ 36mm / B: 125mm

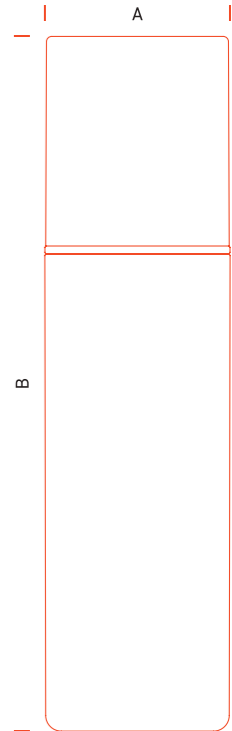
**Material**  
Outer Body, Inner Body, Cap  
: PETG  
Other parts: PP



# NEW DEVELOPMENTS

## TL Wide

A new crystal clear package without the need of straw or piston



### ETL-50CM-01-A

**Volume**  
50ml

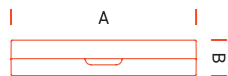
**Size**  
A:  $\varnothing$ 35mm / B: 133mm

**Material**  
Outer Body, Inner Body, Cap  
: PETG  
Other parts: PP

# NEW DEVELOPMENTS

## Slim Palette

Slim palette with a sense of quality featuring Samhwa double injection technology to protect the formula



**CDS-E05M-01-A**

**Volume**  
4.8g (4x1.2g)

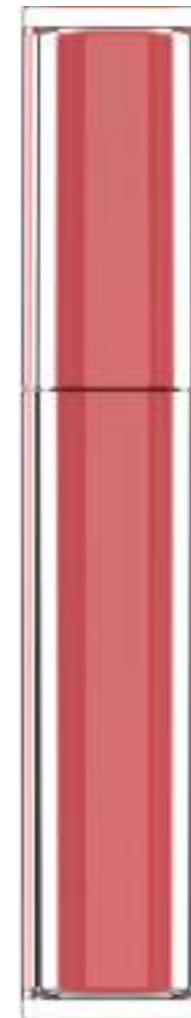
**Size**  
A: 60x63mm / B: 12mm

**Material**  
Body: PETG  
Other parts: PP

# NEW DEVELOPMENTS

## Slim Lip Gloss

Slim lip gloss with a sense of quality featuring Samhwa double injection technology to protect the formula



**LSQ-006M-02-A**

**Volume**  
5.5g

**Size**  
A: 19x19mm / B: 98mm

**Material**  
Outer Body, Stem: PETG  
Other parts: PP



# INNO-ECO PUMP

Focusing more on developing materials that make innovative products stand out and focus on research and development of rubber, textile, metal, and glass as well as plastic materials. Recently, we have succeeded in commercializing them in cooperation with material partners on the goal of developing eco-friendly materials.

As well, Samhwa invest to develop injection machine, tool and decoration technologies to implement new materials. Based on material specialization, Samhwa can meet customer demand by implementing their brand image through packaging.

## VER. I

**Output**  
0.15cc  
0.20cc

**Model year**  
1990~

**Structure**  
Internal spring  
SUS Ball valve type

**Feature**  
Strong durability  
Risk of contamination by metal



## VER. II

**Output**  
0.10cc  
0.15cc  
0.20cc  
0.25cc  
0.30cc  
0.50cc  
0.70cc  
1.00cc

**Model year**  
2000~

**Structure**  
External spring  
PE Disk valve type

**Feature**  
Prevent contamination by metal  
Delivery / Cost improvement with module system



## VER. III

**Output**  
0.15cc  
0.20cc  
0.30cc  
0.80cc  
2.00cc  
3.00cc

**Model year**  
2020~

**Structure**  
Bi-injected Eco spring  
Only Polypropylene used

**Feature**  
No Metal Spring  
No POM  
Mono Material

— PATENT PENDING —



# ECO ENGINE

## ECO Slim Airless

Slim airless that is easy to recycle by applying eco-friendly materials



### AES-015M-01-A

**Volume**  
15ml

**Size**  
A: Ø28mm / B: 96mm

**Material**  
All parts PP

### AES-030M-01-A

**Volume**  
30ml

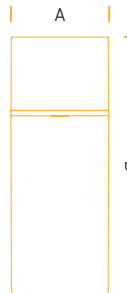
**Size**  
A: Ø28mm / B: 133mm

**Material**  
All parts PP



## ECO P1/ P2 AIRLESS

Easy to recycle by applying eco-friendly materials.  
Airless with a smooth design



### P1: AEP-030M-01-A

**Volume**  
30ml

**Size**  
A: Ø36mm / B: 68mm

**Material**  
All parts PP

### P1: AEP-050M-01-A

**Volume**  
50ml

**Size**  
A: Ø36mm / B: 93mm

**Material**  
All parts PP

### P2: AEP-100M-01-A

**Volume**  
100ml

**Size**  
A: Ø45mm / B: 126mm

**Material**  
All parts PP

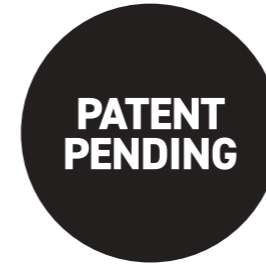


# ECO ENGINE

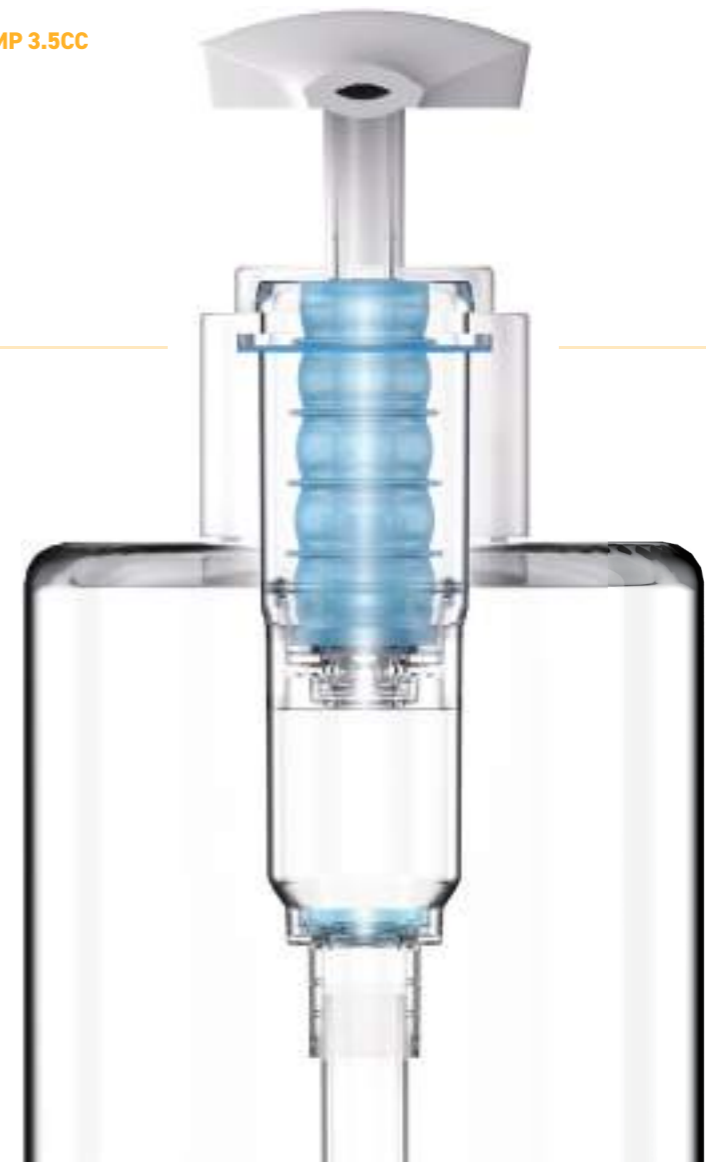
## D/P ECO PUMP

The mono material engine is engineered with removing the use of POM (harmful raw material to consumer) to protect consumer.

The engine implement an all PP mono material spring to prevent formula contamination as well as respecting environmental needs.



202 ECO PUMP 3.5CC



No Metal spring  
No POM  
Mono Material

# Development of eco-friendly materials

Focusing more on the development of materials that make innovative products stand out and focus on research and development of rubber, textile, metal, and glass as well as plastic materials. Recently, we have succeeded in commercialising them in cooperation with material partners on the goal of developing eco-friendly materials.

As well, Samhwa invest to develop injection machine, tool and decoration technologies to implement new materials. Based on material specialisation, Samhwa can meet customer demand by implementing their brand image through packaging.

## Sustainable Materials - PCR(post)

Through cooperation with domestic and foreign petrochemical manufacturers, we have secured more than 90% of needed raw materials to produce Samhwa's freemold products. We will expand as well our investment with the aim to secure reliability on functional parts and enhancing appearance quality.



## Safe Materials Antimicrobial Activity

With improved living standards and growing interest in personal hygiene, consumer needs are increasing to find a safe material that is resistant to germs in everyday life as well as being harmless to the human body and environment. Samhwa is making every effort to develop antibacterial materials and to study the structure to maintain its continued antibacterial properties.

## Inno-Eco-Glass Bottle

Compared to plastic materials, glass is generally used for perfume and cosmetic package with the advantage of recyclability, chemical resistance, transparency and heavy weight. Capitalising on these advantages, Samhwa has successfully launch glass cosmetic package which meets aesthetic and functional requirement. Samhwa next step is to develop foundation or color cosmetic package taking advantage of the glass material property.





# REUSE : Refill Mechanism

With continuous research on consumers / customers specific needs and extensive market research, our R&D developed and engineered innovative way to design the next generation eco-friendly product. Samhwa implemented patented refill mechanism across our product line-up to bring to our customer simplification for refill filling industrialization and as well for consumers a simpler way to reuse their product.

## Jar Type Reuse

### TURN TO REFILL



Glass Refill Jar

**Material**  
Outer Body: GLASS  
Inner Cap, Refill: PP  
Other parts: PETG

## Jar Type Reuse

### PUSH TO REFILL



Push Refill Jar

**Material**  
Outer Body: PETG  
Refill: PP  
Other parts: PCR ABS



## Airless Type Reuse

### TURN TO REFILL

Glass Refill Airless V2

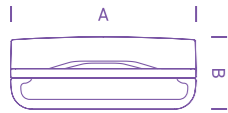
**Material**  
Outer Body: GLASS or PET  
Other parts: PP



# REFILL & ECO

## GL Blow Eco Pact

Pact with a large capacity airtight refill system.  
Introduce a new way to refill a pact: 'turn to refill'



**CEB-030M-01-A**

**Volume**

30g

**Size**

A:  $\varnothing$ 76mm / B: 29mm

**Material**

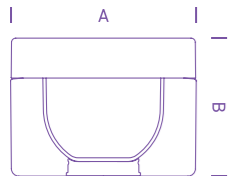
Bottom Case: PET

Other parts: PP



## Push Refill Jar

'Push to refill', the new elegant and luxurious way to refill a jar



**JPR-050M-01-A**

**Volume**

50g

**Size**

A:  $\varnothing$ 74mm / B: 55mm

**Material**

Outer Body: PETG

Refill: PP

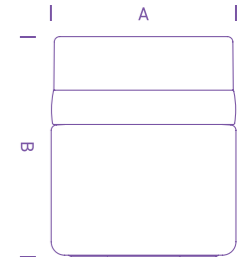
Other parts: PCR ABS



# REFILL & ECO

## Eco AJ Touch Refill Jar

Hygienic jar as the contents do not come into direct contact with your hands. Glass touch container with anti-bacterial material and eco-pump applied



**JAJ-050M-01-A**

**Volume**

50g

**Size**

A:  $\varnothing$ 69mm / B: 76mm

**Material**

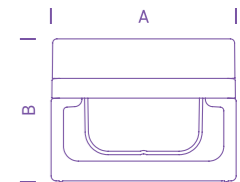
Outer Body: GLASS

Other parts: PP



## Glass Refill Jar V2

A luxurious glass refillable jar that can be easily refilled by just turning the shoulder



**JGR-050M-01-B**

**Volume**

50g

**Size**

A:  $\varnothing$ 75mm / B: 57mm

**Material**

Outer Body: GLASS

Inner Cap, Refill: PP

Other parts: PETG



## Glass Refill Airless / DP / Eco Mist

Luxurious Airless, DP and Mist featuring Samhwa eco pump and refill system



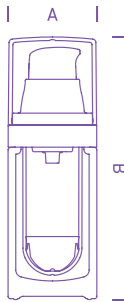
**Airless**



**DP**



**Eco Mist**

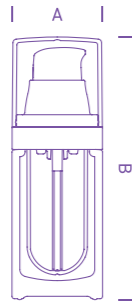


**Airless:** AGR-015M-01-A  
**DP:** DGR-015M-01-A  
**Mist:** DGR-34MM-01-A

**Volume**  
15ml

**Size**  
A: Ø37mm / B: 113mm

**Material**  
Outer Body: GLASS or PET  
Other parts: PP

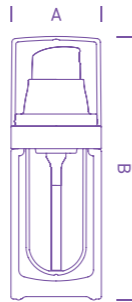


**AGR-020M-01-A**  
**DGR-020M-01-A**  
**DGR-34MM-02-A**

**Volume**  
20ml

**Size**  
A: Ø37mm / B: 124mm

**Material**  
Outer Body: GLASS or PET  
Other parts: PP



**AGR-030M-01-A**  
**DGR-030M-01-A**  
**DGR-34MM-03-A**

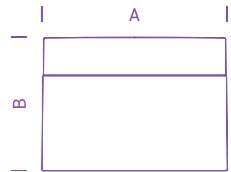
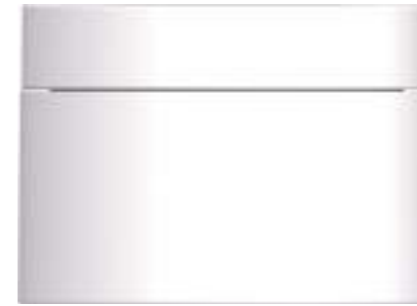
**Volume**  
30ml

**Size**  
A: Ø37mm / B: 159mm

**Material**  
Outer Body: GLASS or PET  
Other parts: PP

## Eco Jar

Eco-friendly all PP jar for easy recyclability



**JPC-050M-01-A**

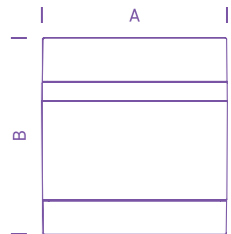
**Volume**  
50g

**Size**  
A: Ø64mm / B: 46mm

**Material**  
All parts PP

## Eco Dial Jar

Eco-friendly product designed and structured in all PP mono material for easy recyclability. Featuring hygienic delivery system with innovative way to delivery formula compared to traditional jar



**JDC-050M-01-A**

**Volume**  
50g

**Size**  
A: Ø69mm / B: 73mm

**Material**  
All parts PP

# RELIABLE PACKAGING

## Protect your everyday with reliable packaging

Research and development on safe material as well as development of touch-less packaging, Samhwa push forward for more safe and reliable packaging to protect consumer everyday life in any condition.

Samhwa's INNO-ECO-PUMP, touch-less, inter-changeable surface with safe material products bring more protected packaging solution for the customer.



## Easy to Wash

### Elastomer

MTSP

**Material**  
Piston: LLDPE  
Holder: LLDPE  
Other parts: PP



Spoid Push Ampoule

**Material**  
Piston: LLDPE  
Other parts: PP

Medi Ampoule

**Material**  
All parts: PP

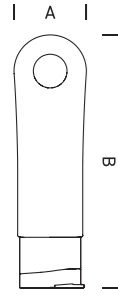


Rolling Serum

**Material**  
Cap, Body: PETG  
Piston: LLDPE  
Other parts: PP

## Butterfly Hinge Sanitiser

Simple and fashionable portable sanitizer.  
Can be strapped as well to be ready in anytime



### B24-030R-01-A

#### Volume

30ml

#### Size

A: 32mm / B: 113mm

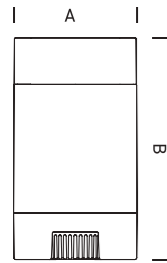
#### Material

All parts: PP



## MTSP

New stick design package with applicator which is  
easy to clean. Always clean for daily usage



### SMT-065M-01-A

#### Volume

65g

#### Size

A: 66mm / B: 119mm

#### Material

Piston: LLDPE

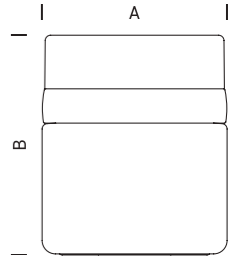
Holder: LLDPE

Other parts: PP



## AJ Refill Cream Jar

Hygienic jar as the contents do not come into direct  
contact with your hands. Airless touch container with  
anti-bacterial material applied



### AAJ-050M-01-C

#### Volume

50g

#### Size

A:  $\varnothing$ 67mm / B: 76mm

#### Material

Outer Body: PETG

Other parts: PP

### AAJ-030M-01-C

#### Volume

30g

#### Size

A:  $\varnothing$ 62mm / B: 64mm

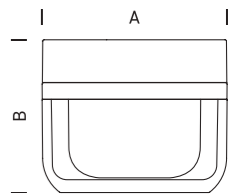
#### Material

Outer Body: PETG

Other parts: PP

## New Hinge Refill Jar

New jar that can be stored and used cleanly with a  
lid combined with an inner container



### JRE-050M-01-A

#### Volume

50g

#### Size

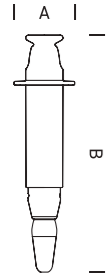
A:  $\varnothing$ 69mm / B: 57mm

#### Material

All parts: PP

## Medi Ampoule

An ampoule container that is easy to use and easy to carry



**EME-01CM-01-A**

**Volume**

1.5ml

**Size**

A: 17mm / B: 65mm

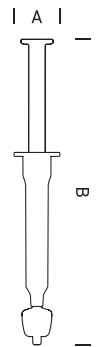
**Material**

All parts: PP



## Spoid Push Ampoule

Inspired by the design of a classic syringe.  
An ampoule container that is easy to use and easy to carry



**ASP-015M-01-A**

**Volume**

1.5ml

**Size**

A: 17mm / B: 110mm

**Material**

Piston: LLDPE / Other parts: PP



## Rolling Serum

Featuring 3 specific applicator for targeted usage.  
Enhanced soft push side button system to deliver precisely each single formula drop



**ARR-010M-01-A  
METAL BALL TIP**

**Volume**

10ml

**Size**

A: Ø17mm / B: 136mm

**Material**

Cap, Body: PETG

Piston : LLDPE

Other parts: PP

**ARR-010M-01-B  
SPOID TIP**

**Volume**

10ml

**Size**

A: Ø17mm / B: 144mm

**Material**

Cap, Body: PETG

Piston : LLDPE

Other parts: PP

**ARR-010M-01-C  
SILICONE TIP**

**Volume**

10ml

**Size**

A: Ø17mm / B: 144mm

**Material**

Cap, Body: PETG

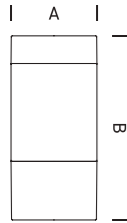
Piston : LLDPE

Other parts: PP



## Basic Ampoule

A container that can be used drop by drop as much as you want with the push of a button



### EBA-10CM-01-A

**Volume**  
10ml

**Size**  
A: Ø27mm / B: 59mm

**Material**  
Outer Body: PETG  
Other parts: PP

### EBA-15CM-01-A

**Volume**  
15ml

**Size**  
A: Ø27mm / B: 82mm

**Material**  
Outer Body: PETG  
Other parts: PP



## 2 in 1 Push Ampoule

One step push provide a fresh mix of 2 combined formula delivered at once



### EMA-C10M-01-A

**Volume**  
8ml + 2g

**Size**  
A: Ø27mm / B: 82mm

**Material**  
Outer Body: PETG  
Other parts: PP



## RG Ampoule

Versatile for use in a variety of capacities Ampoule container to use at the push of a button



### ERG-M15M-01-A

**Volume**  
15ml

**Size**  
A: Ø29mm / B: 87mm

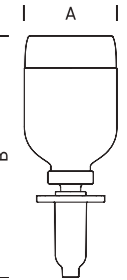
**Material**  
Cap, Body: PETG  
Other parts: PP

### ERG-10CM-01-A

**Volume**  
10ml

**Size**  
A: Ø29mm / B: 72mm

**Material**  
Cap, Body: PETG  
Other parts: PP



### ERG-05CM-01-A

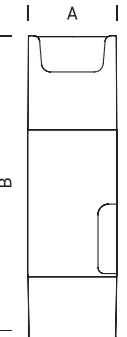
**Volume**  
5ml

**Size**  
A: Ø26mm / B: 87mm

**Material**  
Cap, Body: PETG  
Other parts: PP

## 2 in 1 Twister Ampoule

A twist provide a fresh mix of 2 combined formula delivered at once



### ETA-C20M-01-A

**Volume**  
10ml + 10ml

**Size**  
A: Ø30mm / B: 100mm

**Material**  
Cap, Body: PETG / Other parts: PP





# Blow Development

Samhwa co., Ltd has been leading the global skincare market with airless and dispensing pump product, as well as the global makeup market with the World's Best airtight compact.

With continuous investment in business expansion, in 2018, Samhwa expanded it's operation to enter the household product market by building a blow facilities.

With over 40 years of experience and technology knowhow, Samhwa will bring the innovative blow product to the cosmetic market as well as the household market.



## Heavy blow method container made



Blow injection machine line

### Core Technology

Lighter than glass, unbreakable, and has the same effect as glass (increased price competitiveness)  
Various designs and post-processing available



Based on our mold knowhow, we are planning and developing a wide range of product.  
We are also developing products in collaboration with domestic and foreign customers.



Auto label application process

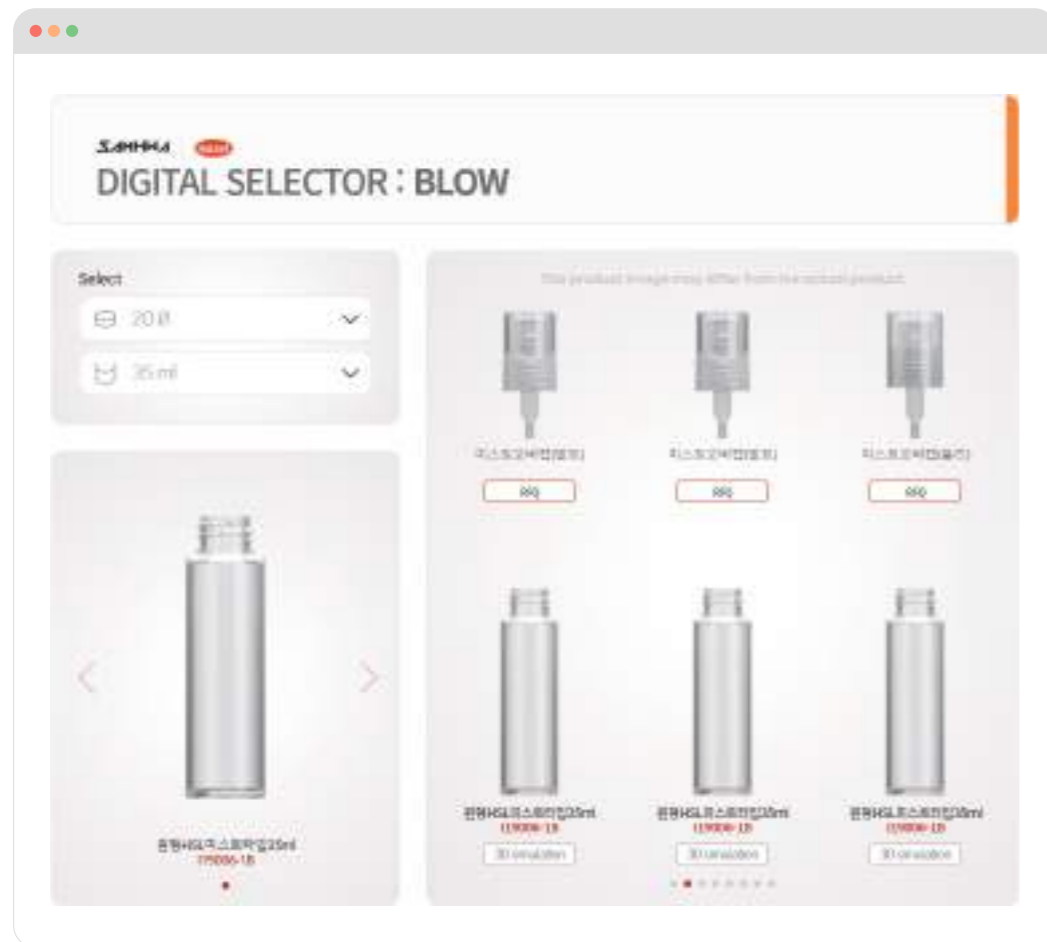
Finished blow bottle line output



# SAMHWA Blow Digital Catalog

[www.samhwakorea.com](http://www.samhwakorea.com)

Navigate BLOW bottles and combination by neck size and bottle capacity












## MMP Simulation

3D simulation experience

- Detailed product selection
- Product Details
- Product Features
- 3D Rotation View
- Request A Quote
























## Bottle

6.5ml	30ml	35ml	40ml	43ml	50ml
 Slim Shaker Ø17	 Hidden Ø18	 HSL Ø20	 Smart Dropper Ø18	 Classic Circle Ø20	 Hexa_GPC Ø18
	 Boston Ø18		 Classic Circle Ø20		 TR Ø20
					 CRX Ø24
	 GL PACT Ø66		 HSL Ø20		 R3 Ø20
					 Jar Square Ø57
					 R5 Ø20
					 Boston Ø18


























## Bottle

60ml	80ml	100ml	120ml	125ml	130ml	140ml
 Hidden Ø18	 PL_DP Ø18	 Hidden Ø18	 KM Ø20	 MR Ø24	 PL_DP Ø17	 Hexa_GPC Ø20
 CV Ø18	 Hidden Ø18	 Hidden C018 Ø18	 Classic Square Ø20		 CRX Ø18	
 Mist Circle Ø20	 Mist Circle Ø20	 Boston Ø18	 Jar Circle Ø55		 Hidden Ø18	
 Classic Circle Ø20	 Classic Square Ø20	 Mist Circle Ø20			 Boston Ø18	
	 Jar Circle Ø55	 Classic Square Ø20				

## Bottle

150ml	200ml	280ml	300ml	400ml	500ml	
 Ringer Ø18	 Classic Circle Ø20	 CRX Ø24	 MM Ø24	 Classic Circle _Screw Ø24	 Circular Angle Ø24	 DMI_Snap-on Ø24
 Classic Circle Ø20	 Classic Square Ø20	 Boston Ø24	 Classic Circle _Snap-on Ø24	 Boston_Snap-on Ø24		
 Classic Square Ø20	 Circular Angle Ø24	 CRX Ø24	 Boston_Screw Ø24			
 Classic Circle Ø20		 Circular Angle Ø24	 Circular Angle Ø24			
 CRX Ø24		 DMI Ø24				

## NECK

Ø18	Ø20	Ø24	Ø39	Ø44		
 PUMPS5007	 PUMPS5008	 CAPPS1002	 PUMPS5019	 CAPPS1005	 CAPPS1014	 CAPPS1006
 PUMPS5010	 Ø20	 PUMPS5015	 PUMPS5020	 CAPPS1020	 Ø39.8	 CAPPS1016
 CAPPS1021	 PUMPS5011	 PUMPS5016	 Ø24	 PUMPS5001	 CAPPS1007	 Ø45
 CAPPS1022	 PUMPS5009	 PUMPS5017	 CAPPS1003	 PUMPS5002	 CAPPS1017	 CAPPS1015
 CAPPS1024	 CAPPS1001	 PUMPS5018	 CAPPS1004	 PUMPS5006		

SPRAY

ECN



40° (PUMPS5014 + CAPPS1012)  
60° (PUMPS5096 + CAPPS1012)

BULLY



40° (PUMPS5014 + CAPPS1023)  
60° (PUMPS5096 + CAPPS1023)

VALT



40° (PUMPS5014 + CAPPS1011)  
60° (PUMPS5096 + CAPPS1011)

SPOID

Ø18



CAPPS1028

Ø20



CAPPS1029

ECT

SLIM CAP



CAPPS1026

STANDARD CAP



CAPPS1027

SHAKER TIP



CAPPS1025



202 Eco Mist 0.15cc  
+ Classic Circle (Ø20 , 120ml)

**SAMHWA**



**2022  
SAMHWA  
RESEARCH &  
DEVELOPMENT**



**samhwakorea.com  
@samhwa\_packaging**

**16071 / 경기도 의왕시 오전공업길 14, 삼화  
16071 / 14 Ojeongongeoop-gil, Uiwang-si, Gyeonggi-do, Samhwa**