| Specification | Unit | SBM-1E | SBM-2E | SBM-3E | SBM-4E | SBM-6E | SBM-4SE | SBM-6SE | SBM-8SE |
|---|---|---|---|---|---|---|---|---|---|
| Number of Cavity | cavity | 1 | 2 | 3 | 4 | 6 | 4 | 6 | 8 |
| Preform Neck Diameter | mm | Φ15 ~ Φ38 | Φ15 ~ Φ38 | Φ15 ~ Φ38 | Φ15 ~ Φ30 | Φ15 ~ Φ30 | Φ15 ~ Φ30 | Φ15 ~ Φ30 | Φ15 ~ Φ30 |
| Preform Length | mm | 75 ~ 180 | 75 ~ 180 | 75 ~ 180 | 75 ~ 180 | 75 ~ 180 | 75 ~ 120 | 75 ~ 120 | 75 ~ 120 |
| Bottle Diameter (max.) | mm | Φ120 | Φ120 | Φ120 | Φ110 | Φ110 | Φ75 | Φ68 | Φ68 |
| Bottle Length (max.) | mm | 340 | 340 | 340 | 340 | 340 | 220 | 220 | 220 |
| Cavity Mount Pitch | mm | - | 140 | 140 | 120 | 120 | 90 | 72 | 72 |
| Electrical Power | | 3 Phase \| 220V / 380V / 440V \| 50Hz / 60Hz | | | | | | | |
| - Mechanical Movement | kW | 4.5 | 4.5 | 5.5 | 5.7 | 6.5 | 5.5 | 5.7 | 6.5 |
| - Heater | kW | 20.0 | 20.0 | 40.0 | 40.0 | 66.0 | 40.0 | 40.0 | 66.0 |
| - Total Connected Load | kW | 24.5 | 24.5 | 45.5 | 45.7 | 72.5 | 45.5 | 45.7 | 72.5 |
| - Average Power Consumption | kW | 16.0 | 18.0 | 30.0 | 33.0 | 50.0 | 30.0 | 33.0 | 45.0 |
| Compressed Air | | | | | | | | | |
| - Mechanical Movement (7 Kg/㎠) | NL/min | 220 | 250 | 280 | 300 | 400 | 300 | 400 | 430 |
| - Blowing (25 Kg/㎠) | NL/min | 850 | 1650 | 2500 | 3300 | 4800 | 1800 | 2100 | 2700 |
| - Blowing (30 Kg/㎠) | NL/min | 1000 | 1900 | 2900 | 3800 | 5500 | 2100 | 2500 | 3100 |
| - Blowing (38 Kg/㎠) | NL/min | 1300 | 2500 | 3800 | 5000 | 7300 | 2700 | 3100 | 4000 |
| Mold Cooling | Kcal/Hr | 1300 | 2500 | 3500 | 4500 | 5500 | 3000 | 3200 | 4500 |
| - Cooling Water Flow (3 Kg/㎠) | L/min | 15 | 15 | 20 | 20 | 25 | 20 | 20 | 25 |
| Oven Unit Cooling | Kcal/Hr | 2500 | 2500 | 4500 | 4500 | 6500 | 4500 | 4500 | 6500 |
| - Cooling Water Flow (3 Kg/㎠) | L/min | 25 | 25 | 30 | 30 | 40 | 30 | 30 | 40 |
| Machine Dimension (W x L x H) | m | 1.4 x 2.7 x 2.2 | 1.4 x 2.7 x 2.2 | 1.4 x 3.9 x 2.2 | 1.4 x 4.2 x 2.5 | 1.4 x 5.9 x 2.7 | 1.4 x 3.9 x 2.5 | 1.4 x 4.3 x 2.5 | 1.4 x 5.6 x 2.7 |
| Machine Weight | ton | 2.3 | 3.0 | 4.2 | 4.5 | 5.5 | 4.2 | 4.5 | 5.5 |

| Production Output | Unit | SBM-1E | SBM-2E | SBM-3E | SBM-4E | SBM-6E | SBM-4SE | SBM-6SE | SBM-8SE |
|---|---|---|---|---|---|---|---|---|---|
| 0.5 L | Bottle / Hr | 1250 | 2400 | 3600 | 4800 | 7000 | 4800 | 7200 | 9000 |
| 0.75 L | Bottle / Hr | 1250 | 2400 | 3600 | 4800 | 7000 | 4800 | - | - |
| 1.0 L | Bottle / Hr | 1200 | 2300 | 3500 | 4600 | 6700 | - | - | - |
| 1.5 L | Bottle / Hr | 1100 | 2200 | 3300 | 4400 | 6600 | - | - | - |
| 2.0 L | Bottle / Hr | 1000 | 2000 | 3000 | 4000 | 6000 | - | - | - |
| 3.0 L | Bottle / Hr | 700 | - | - | - | - | - | - | - |

(주)에스비엠테크

주소 : 충북 음성군 생극면 송곡리 410-6
전화 : 043 878 9992 | 팩스 : 043 878 9940

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ISO 9001:2000
IAF & MLA


# STRETCH BLOW MOLDING

## (SERVO TYPE)

SBM TECH CO., LTD.

# For customer satisfaction, throughout reliability and zero defect.

SBM TECH CO., LTD. has been established in 1983 and supplying automatic machinery for factory automation.
In the mean time, by accumulated technologies and experiences, SBM TECH CO., LTD. has developed full automatic PET Stretch Blow Molding machine first in Korea in 1996.

Our continuing efforts accomplished full range of SBM series from 1 cavity to 8 cavities.
SBM Serise will give our customers a broad choice in production capacity and price.

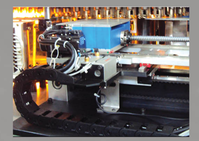
SBM Serise requires minimum space and least energy consumption by full electric and pneumatic operation which enables high investment ratio together with environment friendly.

Our aim is giving optimal solution to customers throughout continuous developing advanced technologlogy and best service along with sharing our experiences in field of PET bottle production.

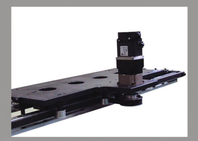
# 신뢰와 무결점으로 고객 만족을 지향합니다.

**Press & Stretch Unit (servo)**
Press unit protects neck finish of preforms by its liable structure.
And ball & screw stretch bar which operats by servo motor ensures precise control for speed and position.

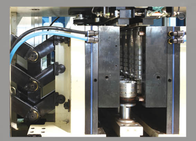
**Preform Collector (servo)**
By 2 servo motors, it secures to deliver pre-heated preforms into exact position speedly but gently.



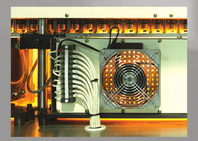
**Transfer Unit (servo)**
Transfer unit consumes minimum energy by servo motor.
And deliver both prforms and bottles reliablely with no impact.



**Toggle Clamp & Locking**
By firm structure and servo motor, ensures less energy consumption and less noisy at high speed operation.
Pneumatic locking system guarantees best quality of bottles.

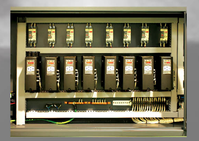


**Oven Unit**
Up to 10 numbers of infrared halogen heater enable more accurate temperature control on preforms along with non-contact temperature sensor.



**Air Supply Unit (Max. 40 bar)**
Simple and easy to control but very reliable and safe.

**Controller**
With supreme reliabilily, the SCR units serve a long life time and stability.



**Touch Pannel**
User friendly color touch screen helps to control all parameters for the best quality of bottles.
10 stroge for different operating parameters.

## Features

**✓ Economy**
Energy Saving (30 kW/Hr, SBM-4E)
Fully Srevo System (6 servo moter)
Compact Design (1.5 x 4.2 x 2.2m)
Fast Cycle Time (1200 cycle/Hr)

**✓ Superiority**
Wide Choice In Design For Quality Bottles
Air Conditioning Inside Machine
Safe & Silent Operating
Dust Free & Oil Free
Non Neck Blowing

**✓ Convenience**
Easy Control (touch screen)
Safety & Environment Freindly
Easy Preform Load
(Turn Over Preform Loader, SBM-4E)
Easy Operation, Maintenance & Mold Change At Floor

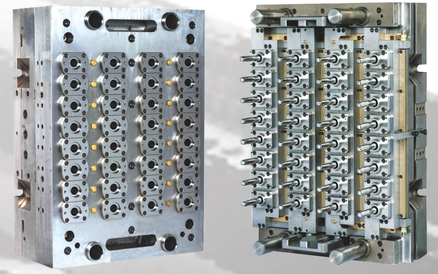
**✓ 경제성**
에너지 절약 (30 kW/Hr, SBM-4E)
6서보 모터
컴팩트한 디자인 (1.5 x 4.2 x 2.2m)
짧은 싸이클 타임 (1200 cycle/Hr)

**✓ 우수성**
폭넓은 용기 디자인과 우수한 용기품질
기계 내부의 에어컨디션닝
안전하고 정숙한 디자인
청결한 제품 (먼지,오일 프리)
Non Neck Blowing

**✓ 편리성**
쉬운 조작 (터치스크린)
안전 및 환경친화
편리한 프리폼 공급 (턴오버 타입 로더, SBM-4E)
편리하고 빠른 정비 및 몰드 교체

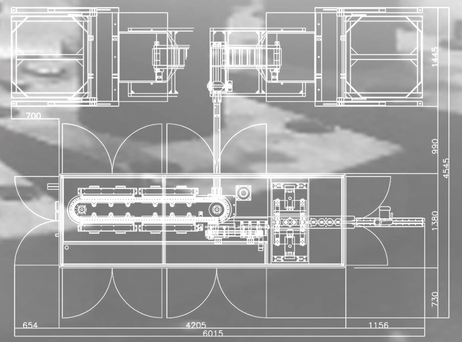
## Bottle & Preform Molds

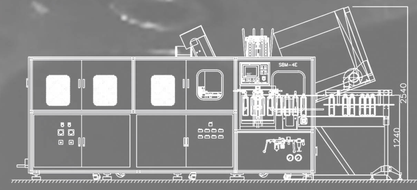
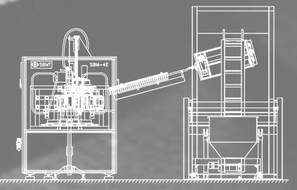
4 Cavity Bottle Mold



32 Cavity Preform Mold

## Layout (SBM-4E)




**✓ Compact**
We believe SBM series is the most compact in size in the world.

It will give operators more free operating space and easy to access to the machine.