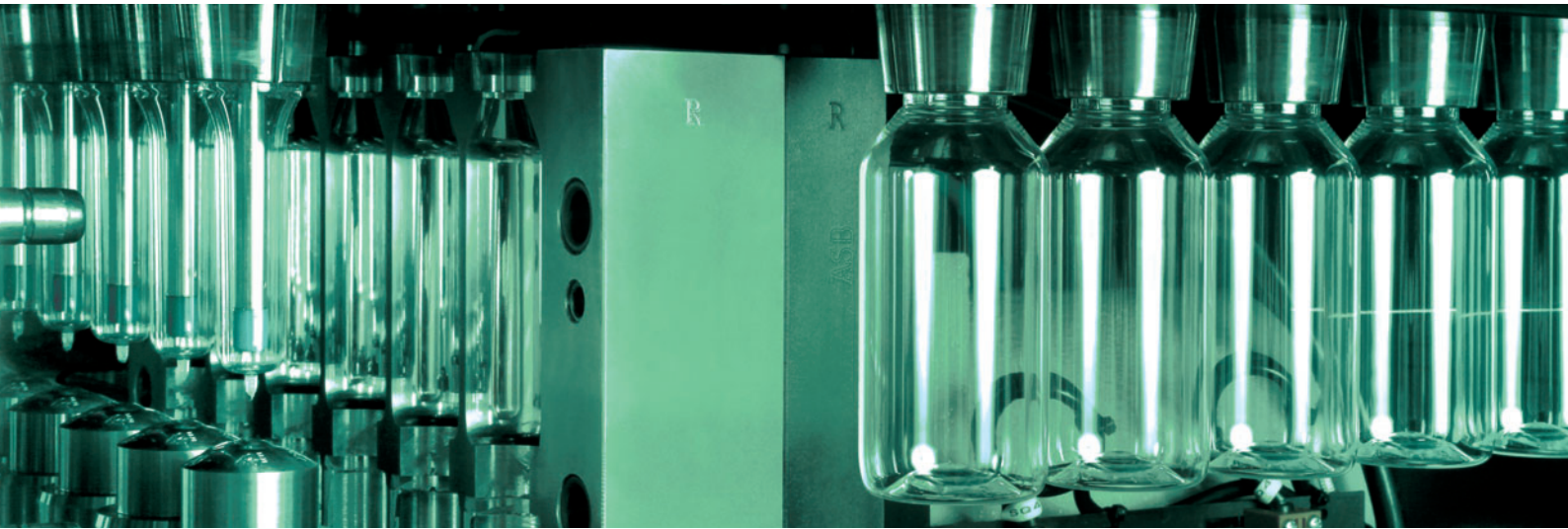


One-Step Injection Stretch Blow Molding Machine

ASB Series

ASB-12M

Compact Machine with Jar Molding Capability and Advanced Efficiency





● Blow Mold and Take-out Station

Energy efficiency, Versatility, Low-noise, ASB-12M improved in every aspect.

A New Standard in Small Scale Injection Stretch Blow Molding.

The ASB-12M has been developed as an upgrade model from the entry level ASB-50MB, which has sold more than 2,000 units and remains in our line-up as one of our best sellers. It is a compact one-step injection stretch blow molding machine with improved jar capability and advanced energy efficiency.

Wider Range of Molded Containers



The ASB-12M can mold jars with necks up to $\phi 83\text{mm}$ thread diameter (typically up to 2 liters). Applications include many cosmetics, pharmaceutical

and food jars such as hand-cream, pill, peanut butter etc. Regular bottles of up to 2.5L can also be molded. In the smaller neck sizes, the productivity has also increased by 33% for $\phi 38\text{mm}$ neck and 66% for $\phi 32\text{mm}$ neck, compared with the ASB-50MB.

Not only PET, but various kind of plastics material such as PP and PC can easily be molded. This level of compactness together with high versatility and wider variety of neck size and cavitation is a first in this class of machine.

Low Noise

Besides energy reduction, noise and vibration are also dramatically reduced; now being on a similar level with ASB's all electric molding machine, the ASB-15N/10E. Smoother operation also results in greater durability and easier maintenance compared with the existing hydraulically operated models.

Improved Energy Efficiency

The ASB-12M utilizes two servo driven hydraulic pumps which can adapt their speed and output precisely to the required demand throughout the entire cycle of the machine thereby reducing actual energy consumption by about 40%*¹ compared with the ASB-50MBv3. In tests, actual power consumption was measured at approx. 25% of the rated power.

*¹: Subject to container configuration.

Ideal for Low-volume High-mix Production

The ASB-12M can produce a huge variety of high-quality containers. It is small enough to be used as a laboratory testing machine while also having the capability to offer serious production output.

The molds are light and simple meaning that mold changes can be performed without any special lifting equipment resulting in quick and easy mold changeovers.

Workability

Design changes in the control panel ensure easier mold change and maintenance over previous models.

Existing Machine's Mold can be Mounted

Molds made for the existing ASB-12N/10 and ASB-50MBv3 can be converted to mount on the ASB-12M.*² *³ *⁴ This enables easy upgrade path for ASB's customers who are already using these existing machines.

*²: For ASB-50MB molds the conversion may be complex so a new purpose made ASB-12M mold may be more economic.

*³: Molds for ASB-12M cannot be mounted on the other machines.

*⁴: Please contact your local ASB representative for the details.

Machine Specification	Unit	ASB-12M
Standard Screw Diameter	mm	44
Theoretical Injection Capacity	cm ³	152* ¹
Injection Clamping Force	kN	137
Blow Clamping Force	kN	116
Driving Power (Rated)	kW	29.8
Heater Capacity (Rated)	kW	16.1* ²
Oil Reservoir Capacity	L	220
Machine Size (L×W×H)	mm	4,320×1,210×3,103
Machine Mass (Approx.)	ton	4.0

● Specifications are subject to change without any obligation on the part of the manufacturer.

● Note: Actual power consumption example: 100g shot weight, 14.6 sec/cycle = approx. 25% of rated power.

*¹: Using the standard screw.

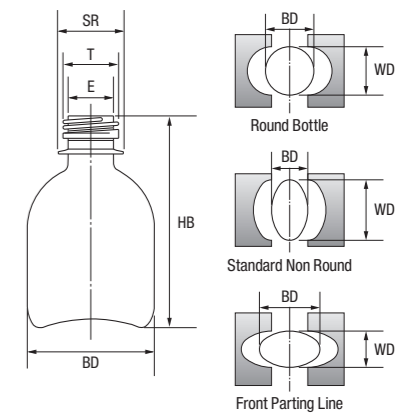
*²: Subject to container specification, number of cavities and mold.

Products Specification	Unit	ASB-12M							
		1	2	3	4	5	6	(7)	(8)
Cavity Number	cavity	1	2	3	4	5	6	(7)	(8)
Max. Capacity	L	2.5	1.5	0.9	0.4	0.25	0.1	(0.03)	(0.02)
Max. Thread Diameter	T mm	83	62	48	38	32	25	(17)	(15)
Max. Neck Diameter	E mm	79	60	43	33	28	23	(15)	(13)
Max. Support Ring Diameter	SR mm	80	62	45	38	32	25	(17)	(15)
Max. Body Diameter	BD mm	118	90[100]* ⁴	66[85]* ⁴	54[69]* ⁴	56	45	(28)	(26)
Max. Width Parting Line	WD mm	145	113	85	67	56	45	(28)	(28)
Max. Height	HB mm	300			200			(150)	
Max. Weight * ³	g	129	65	43	32	26	22	(18)	(16)

● All figures are subject to container configuration. ● () Optional feature

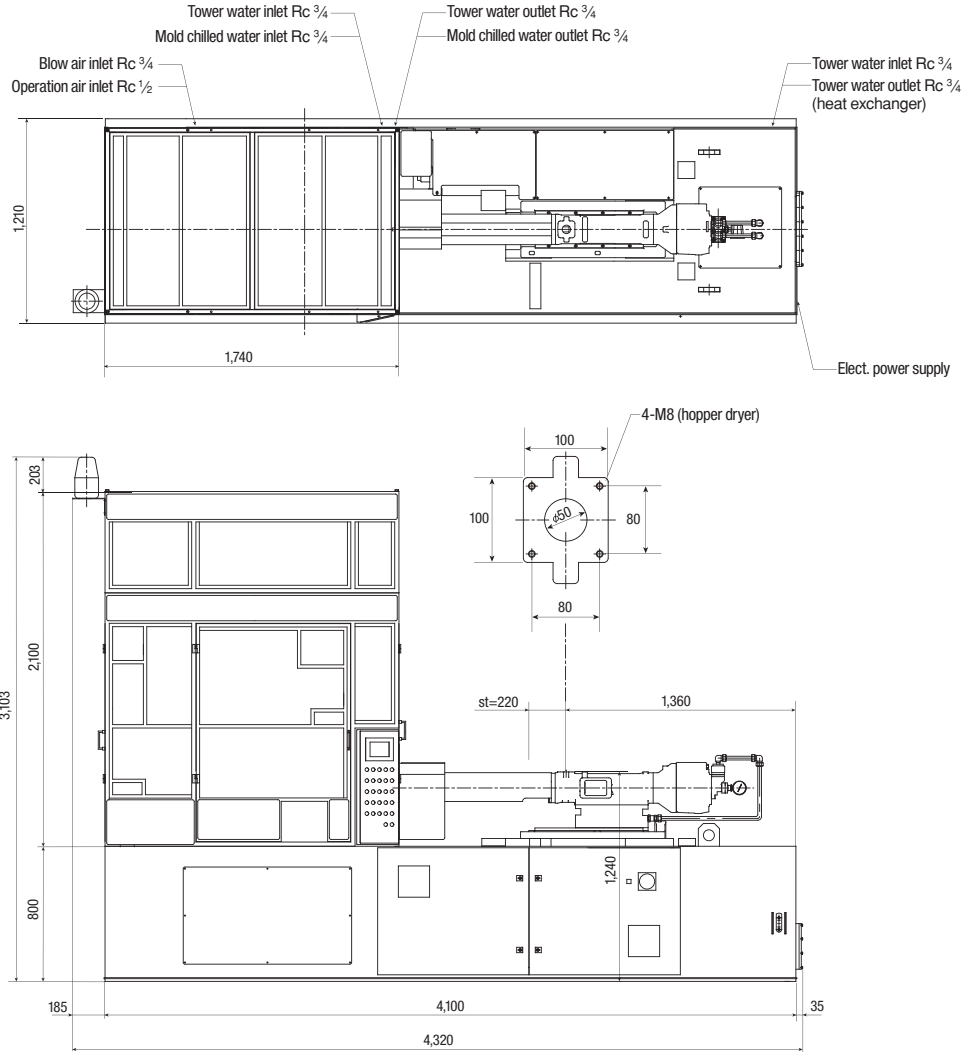
*³: Using standard screw and PET.

*⁴: Figures in brackets [] are applicable to HB<=200.



Typical Containers

- Applications: Wide mouthed jars for a variety of food and non-food applications, Cosmetics (mascara, lotion, cream etc.), pharmaceuticals (eye drops, medicine, pills etc.), baby feeding bottles, spice, liquor, carbonated drink etc.
- Materials: PET, PP, PC, PEN, PS, PES, PPSU, recycle PET etc.
- Shapes: Plain round, wide-mouth, oval, non-round, ultra-light etc.



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