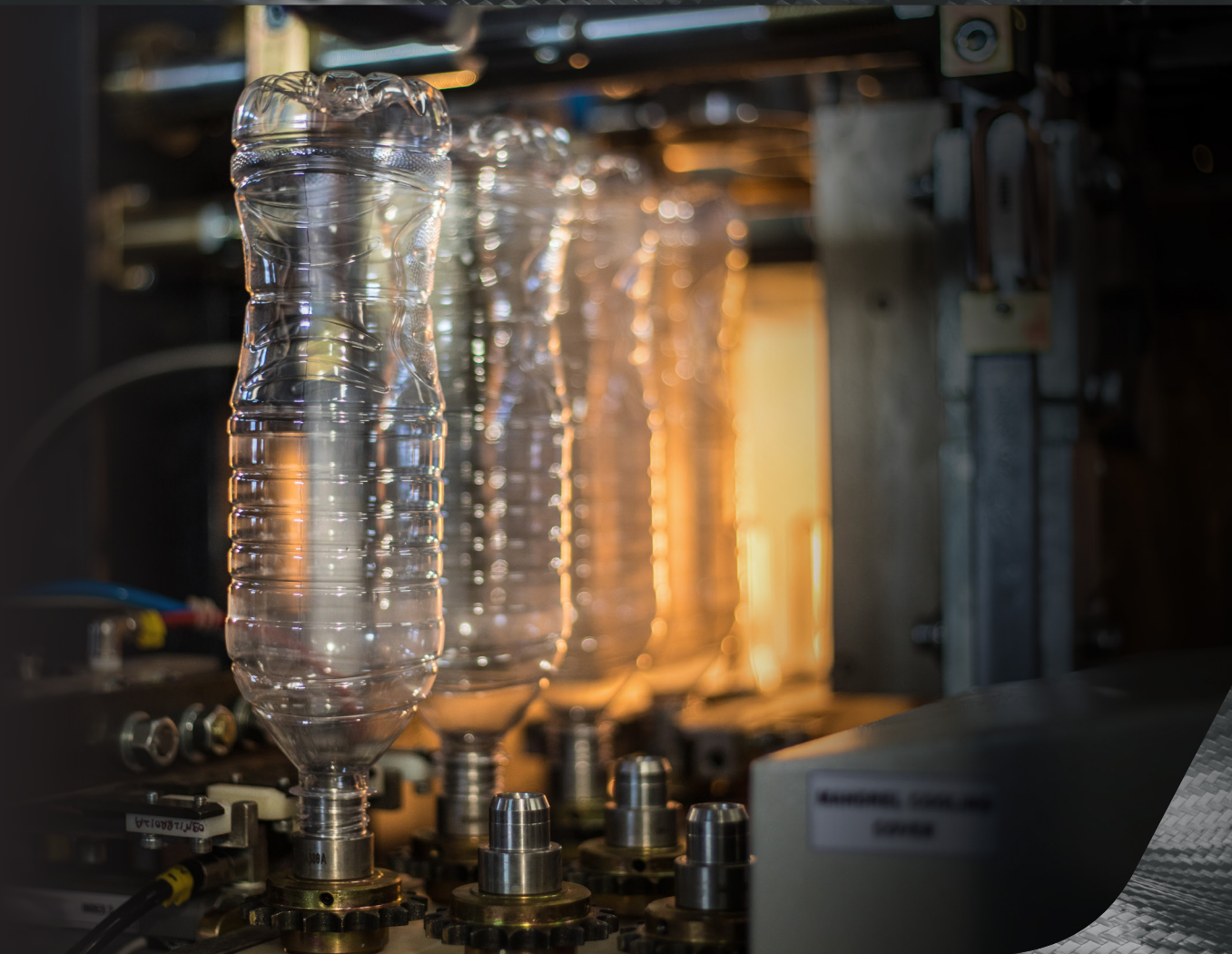


LINEAR STRETCH BLOW MOULDING MACHINES



SYNERGY

SYNERGY

THE BENCHMARK FOR LINEAR SBM* MACHINES DESIGNED FOR MEDIUM AND LOW OUTPUT REQUIREMENTS

At SYNERGY, we are fully aware of the importance of capital investment costs in business start-ups or expansions in remote locations that have a low output but a no-compromise attitude to end product quality and reliability.

Based on our experience and know-how in the field of blow moulding machines, the SYNERGY Range offers high-quality output, operational flexibility and the lowest cost per bottle.

Available in models equipped with single to multiple cavities, Synergy is the entry level product for the low and medium output sector. Synergy handles packages ranging from 60ml to 2L on standard models and a special range is available for 5L and 25L requirements. Our single cavity machine also offers advanced flexibility for wide-mouth jar and container neck preforms.



*Stretch Blow Moulding

KEY ADVANTAGES AT A GLANCE

- Wide range of models for various applications including Hot Fill and preferential heating
- High preform yield
- Low operating costs
- Consistent bottle quality
- In-line bottle outfeed
- Easy format changeovers
- Quick start up
- Efficient backup service
- Positive references

INCREASED FLEXIBILITY OPTIONS

Cost Saving

- Air recovery
- Standard change parts
- Optimized oven design

Flexibility

- Quick change spindles
- Easy adaptability for HR Bottles

Hygiene

- Hopper cover
- Food safe air contact LP and HP filters

Special features

- Hot Fill attachment
- Preferential Heating
- 5L and 20L bulk package containers



TECHNICAL SPECIFICATIONS							
BLOWING MACHINE	SR 0.5/8 VITESSE	SR 1/2 NOVA X	SR 1/4 GREEN X	SR 1/6 VITESSE	SR 1/8 VITESSE	SR 2/2 NS	SR 2/4 ECO
MACHINE FEATURES							
Max. Mechanical Output (bph)	12000	3200* - 1 L 1000~1100* - 2 L	6000* - 1 L 2400~2600* - 2 L	8000~9000	12000	3200	6000~6200
Volume (L)	Up to 500 ml	Up to 1 L & 2 L	Up to 1 L & 2 L	Up to 1 L	Up to 1 L	Up to 2 L	Up to 2 L
No. of Cavities	8	2 for 1 L 1 for 2 L	4 for 1 L 2 for 2 L	6	8 for 1 L 4 for 2 L	2	4
Max. Bottle Diameter (mm)	73	85	85 - 1 L & 110 - 2 L	85	85 - 1 L & 110 - 2 L	110	110
Max. Bottle Height (mm)	220	275	300	275	275	340	360
Max. Preform Neck Dimension (mm)	30	30	38	30	30	38	38
Max. Preform Length (mm)	110	125	160	110	110	160	160
Mould Changeover Time (in minutes for 2 technicians)	45	30	45	45	45	20	45
Mechanical Efficiency (%)	98	98	95	98	98	98	98
Total Connected Electrical Power (kW)	80	29	40	103	103	63.5	67
Estimated Power Consumption Per Hour	30% ~ 40%	50% ~ 60%	50% ~ 60%	30% ~ 40%	30% ~ 40%	40% ~ 50%	40% ~ 50%
High Pressure Air Requirement; 32 Bar; Oil free (CFM)	160ml x 12000 - 90 CFM 200ml x 12000 - 126 CFM 500ml x 12000 - 197 CFM	250ml x 3200 - 49 CFM 500ml x 3200 - 66 CFM 1000ml x 3200 - 96 CFM	0.5 L x 6000 - 97CFM 1.0 L x 6000 - 160 CFM 2.0 L x 2400 - 122 CFM	1.0 L x 9000 - 246 CFM	1.0 L x 12000 -335 CFM	1000ml x 3200 - 105 CFM 2000ml x 2600 - 148 CFM	200ml x 6200 - 108 CFM 500ml x 6200 - 141 CFM 1000ml x 6200 - 205 CFM 2000ml x 5200 - 228 CFM
Low Pressure Air Requirement; 8 Bar; Oil free With Air Recovery (CFM)	160ml x 12000 - 15 CFM N.A	250ml x 3200 - 45 CFM 500ml x 3200- 30 CFM 1000ml x 3200-17 CFM	0.5 L x 6000 - 53 CFM 1.0 L x 6000 - 23 CFM 2.0 L x 2400 - 29 CFM	0	1.0 L x 12000 - NA	0	200ml x 6200 -23 CFM 500ml x 6200 - 10 CFM 1000ml x 6200 - 0 CFM 2000ml x 5200 - 0 CFM
Water 8 ~12 Deg C, 4 bar Pressure	80 LPM	30 LPM	50 LPM	50 LPM	100 LPM	50 LPM	80 LPM

* Output on 1 Liter water bottle of 20 Grams Cylindrical in Shape, however speed varies as per Weight & Design of Bottle



TECHNICAL SPECIFICATIONS			
BLOWING MACHINE	SR 5/2	SR 5/3	SR 20/1
MACHINE FEATURES			
Max. Mechanical Output (bph)	1700~1800	2500	240 (for Reuse bottle) 360 (for Single use bottle)
Volume (L)	Up to 5 L	Up to 5 L	Up to 20 L
No. of Cavities	2	3	1
Max. Bottle Diameter (mm)	220	210	300
Max. Bottle Height (mm)	368	370	500
Max. Preform Neck Dimension (mm)	63	55	80
Max. Preform Length (mm)	180	180	420
Mould Changeover Time (in minutes for 2 technicians)	60	92	60
Mechanical Efficiency (%)	98	95	98
Total Connected Electrical Power (kW)	64	95	96
Estimated Power Consumption Per Hour	50% ~ 60%	50% ~ 60%	50% ~ 60%
High Pressure Air Requirement; 32 Bar; Oil free (CFM)	2000ml x 1800 - 102 CFM 5000ml x 1400 - 166 CFM	2000ml x 2500 - 136 CFM 5000ml x 2500 - 296 CFM	20.0 x 240 - 138 10.0 x 350 - 88 5.0 x 550 - 98
Low Pressure Air Requirement; 8 Bar; Oil free With Air Recovery (CFM)	2000ml x 1800 - 50 CFM 5000ml x 1400 - 3 CFM	2000ml x 2500 - 101 CFM 5000ml x 2500 - 32 CFM	20.0 x 240 - 0 10.0 x 350 - 21 05.0 x 550 -49
Water 8 ~12 Deg C, 4 bar Pressure	60 LPM	120 LPM	80 LPM

FOR AN IMPROVED
PERFORMANCE
/ PRICE RATIO

SIMPLE DESIGN, HIGHER PERFORMANCE

SYNERGY stands out for its linear and modular design. Its key goal is to achieve ease of use through a series of operator-friendly features. We have also introduced a high-speed range with a 2-cavity system. The range's special features include a central oven design that helps reduce power per unit costs and a servo stretching mechanism that ensures advanced precision and top bottle quality.

WIDE RANGE OF CAPABILITIES

The Synergy range can handle a wide variety of beverage and non-beverage products. This includes numerous preforms with different neck finishes and bottle shapes. We offer models for 60ml to 2L bottle sizes in our standard range and special configurations are available for 5L and 20L formats too.

USER FRIENDLY

The machine's B&R PLC offers advanced, operator friendly technology and an unparalleled level of reliability and response. Its intuitive, smart B&R touch screen is an excellent user interface too.

FAST & ACCURATE BLOWING

Our 2- and 4-cavity machines come equipped with special manifold valves. These have integrated controls for pre-blowing, blowing and exhaust operations and their faster response times ensure high-precision operations in every cycle. Dead volumes have also been reduced which further boosts precious blowing air savings.

FEWER CHANGE PARTS / EASIER FORMAT
CHANGEOVERS

From preform loading to blowing, these machines are designed to offer simple preform handling. Their linear movement minimises transfers, which in turn eliminates the need for multiple change parts. This reduces format changeover costs to an absolute minimum.

* Output on 1 Liter water bottle of 20 Grams Cylindrical in Shape, however speed varies as per Weight & Design of Bottle



TECHNICAL SPECIFICATION				
BLOWING MACHINE	SR 0.3/4	SR 1/2 PH	SR 2/1 JAR	SR 2/1 PH
MACHINE FEATURES				
Max. Mechanical Output (bph)	4200	1000~1200	900 - 1000*	600~800
Volume (L)	Up to 300 ml	Up to 1 L	Up to 2 L	Up to 2 L
No. of Cavities	4	2	1	1
Max. Bottle Diameter (mm)	62	85	120	120
Max. Bottle Height (mm)	175	275	240	240
Max. Preform Neck Dimension (mm)	30	46	100	100
Max. Preform Length (mm)	110	110	160	160
Mould Changeover Time (in minutes for 2 technicians)	45	30	30	30
Mechanical Efficiency (%)	98	98	98	98
Total Connected Electrical Power (kW)	27	38	26	26
Estimated Power Consumption Per Hour	40% ~ 50%	40% ~ 50%	40% ~ 50%	40% ~ 50%
High Pressure Air Requirement; 32 Bar; Oil free (CFM)	100ml x 4200 - 26 CFM 200ml x 4200 - 38CFM 330ml x 4200 - 50 CFM	0.25 L x 1200 - 18 CFM 0.5 L x 1200 - 25 CFM 1.0 L x 1000 - 30 CFM	500ml x 900 -23 CFM 1000ml x 900 - 34 CFM 2000ml x 800 - 43 CFM	500ml x 800 - 21 CFM 1000ml x 800 - 30 CFM 2000ml x 600 - 34 CFM
Low Pressure Air Requirement; 8 Bar; Oil free With Air Recovery (CFM)	N.A.	0.25 L x 1200 - 68 CFM 0.5 L x 1200-55 CFM 1.0 L x 1000-38 CFM	500ml x 900 - 25 CFM 1000ml x 900 - 20 CFM 2000ml x 800 - 16 CFM	500ml x 800 - 20 CFM 1000ml x 800 - 16 CFM 2000ml x 600 - 6 CFM
Water 8 ~12 Deg C, 4 bar Pressure	50 LPM	30 LPM	30 LPM	30 LPM

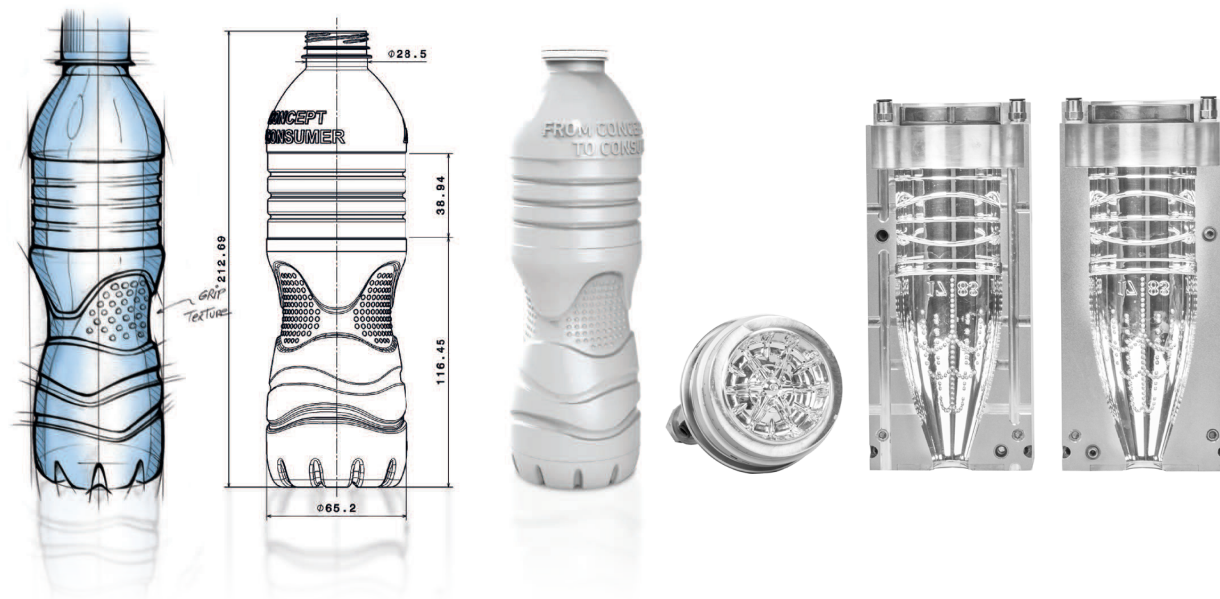
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PACKAGING SERVICES

CREATING VALUE FROM CONCEPT TO CONSUMER

Synergy has a state of the art mould manufacturing facility, operational at Chakan since 2012. Equipped with the latest machinery, it can produce standard as well as hot fill moulds.

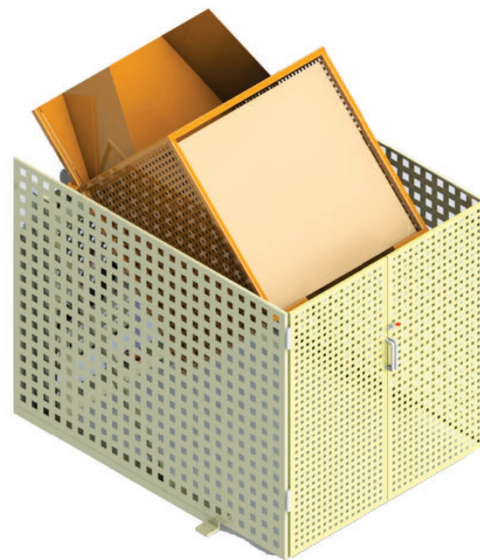
Synergy provides the most innovative PET packaging solutions with its in-house bottle design & development department along with the bottle test laboratory and vast bottle design library.



SUPPLEMENTARY PRODUCTS

PREFORM DUMPER

With increased output of the machine, customers are looking for the option to use preforms in Gaylords or boxes to reduce the loading cycle and manual labour, and to increase the automation. Identifying this customer need, we have developed a preform dumper capable of interfacing with the main PET Blower. A low level sensor on the Blower Hopper activates once the preform level in the hopper drops down below a specified limit. This triggers an input to the PLC on the preform dumper to lift the bin and drop the preforms slowly in the hopper minimizing the mishandling & scratches on the preform. We have customized preform dumpers suitable to handle Gaylord as well as preforms in carton to supplement all ranges of blowing machines. You need to pre-intimate the Gaylord or box type at the time of ordering.



ABOUT US

SYNERGY

Synergy delivers integrated line solutions and equipment for packaging beverages, food, home and personal care products in PET and recycled PET with easy and fast set-up. Built upon over 23 years of experience, Synergy solutions are sourced, manufactured, and assembled in India for customers globally. We work to provide agility, affordability and reliability, bringing you high performance, simply delivered.

Proven reliability and high performance is possible thanks to our vast packaging expertise, dedicated team, and trusted engineered technologies that are the right fit for your product, across formats from 30mL to 20L and from low to medium speed. Reliable packaging is also guaranteed thanks to our state-of-the-art mouldshop, with over 12 years of experience creating high performing and attractive moulds. The accessible and responsive Synergy team and lean and skilled operations make your Synergy experience easy, with a fast and efficient set-up. Local services and manufacturing help you maximise performance and minimise downtime.

Our advanced mouldshop in Pune, India provides optimised container design, development, testing and manufacturing with the same high global standards as Sidel's mouldshop facility in Octeville, France. Based in Pune, Synergy leverages a strong channel partner network spread throughout India, Africa, Middle East & Asia. Synergy is part of the larger Sidel Group and Tetra Laval, while delivering an independent portfolio of solutions with dedicated operations and services.

A BETTER TOMORROW

Synergy plays an important role in protecting people and the planet, from minimising resources and energy used in our solutions, to lightweighting packaging, to expertise in recycled PET, and continual improvement as we contribute to the sustainable transformation of the packaging industry. In addition to our products, our internal operations are also focused on sustainability, with the use of green energy on our site, ISO 14001 and 45001 certifications, and a strong commitment to a circular economy.

Synergy is a leading provider of equipment, services and integrated solutions for packaging beverages, food, home and personal care products in PET and recycled PET. Sourced, manufactured, and assembled in India for customers globally, our Synergy solutions satisfy evolving production needs with agility, affordability and reliability. We deliver fast set-up and ease of use thanks to our agile and lean operations, an expert team, packaging design leadership and our 23-year history. Connect with us for high performance, simply delivered.

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