

Leshan[®]



CYLON[®] SERIES

FULLY ELECTRIC BLOW MOLDING MACHINE

CUSTOMIZED SOLUTIONS TO MEET YOUR NEEDS

Leshan[®] | **SAMP**[®]

GERMAN TECHNOLOGY MADE IN CHINA

STOCK CODE: 871695

www.leshan-plasticmachine.com

GUANGDONG LESHAN INTELLIGENT EQUIPMENT CORP.,LTD.

No.1 Xinhui Road,Wusha,Daliang,Shunde District,
Foshan City,Guangdong Province,China.(Post Code :528300)

E-mail:sales@china-leshan.com

2023-11-EN-1

Designed specifically for the production of chemical drums of 20L and above. We are dedicated to providing advanced, reliable, and innovative blow molding equipment for the chemical industry to meet your production needs.



high production efficiency:

By adopting a fully electric drive system, we achieve high production efficiency, rapid stability, and enhance capacity, while reducing time and costs.



strong adaptability:

Specifically designed for the production of large barrels, ensuring stability and high quality, effortlessly meeting the demand for chemical barrels with a capacity of 20 liters or more.



intelligent control system:

Equipped with an intelligent control system, it monitors and adjusts key parameters, enabling quick mold changes and switches, enhancing production flexibility and efficiency.



safety and reliability:

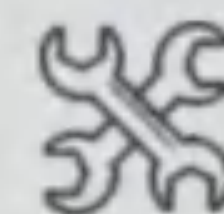
By adopting an advanced safety control system, we ensure the safety of operators. Through rigorous testing and validation, the system remains stable and capable of sustaining long-term, high-intensity production.

» ELECTRIC SERIES OF BOTTLE BLOWING MACHINES



SAILONG BOTTLE BLOWING MACHINE'S NEW TECHNOLOGY

- » Fully electric, blow molding 30-liter chemical barrels, energy-saving of over 70%, and overall machine energy savings of over 15%.
- » Fast operation, short molding time, and space-saving.
- » Well-balanced mold locking structure with two-plate electric mold locking system, 30-ton locking force.
- » Efficient cooling system with multiple workstations, achieving over 60% higher production efficiency compared to conventional machines.
- » Dragon bone-style integrated platform with high rigidity and stability.



» CUSTOMER CASE STUDY SHOWCASE

A domestic plastic products company chose our bottle blowing machine for efficient production of various-sized plastic bottles, resulting in increased efficiency, improved quality.

cylon 30L fully electric machine vs. 30L hydraulic machine

project	30L cylon	30L hydraulic	comparison
number of cavities	1	1	/
production cycle (S)	45	75	66.7%
production output per 24 hours (PCS)	1920	1152	66.7%
measured energy consumption per hour (KW/H)	32KW/H	64KW/H	50%
average energy consumption per ten thousand bottles	166KW/H	556KW/H	235%
worker	1-2	2-3	1-2



Cylong : 52-450+01-100-1



Real footage of Leshan Intelligent Factory



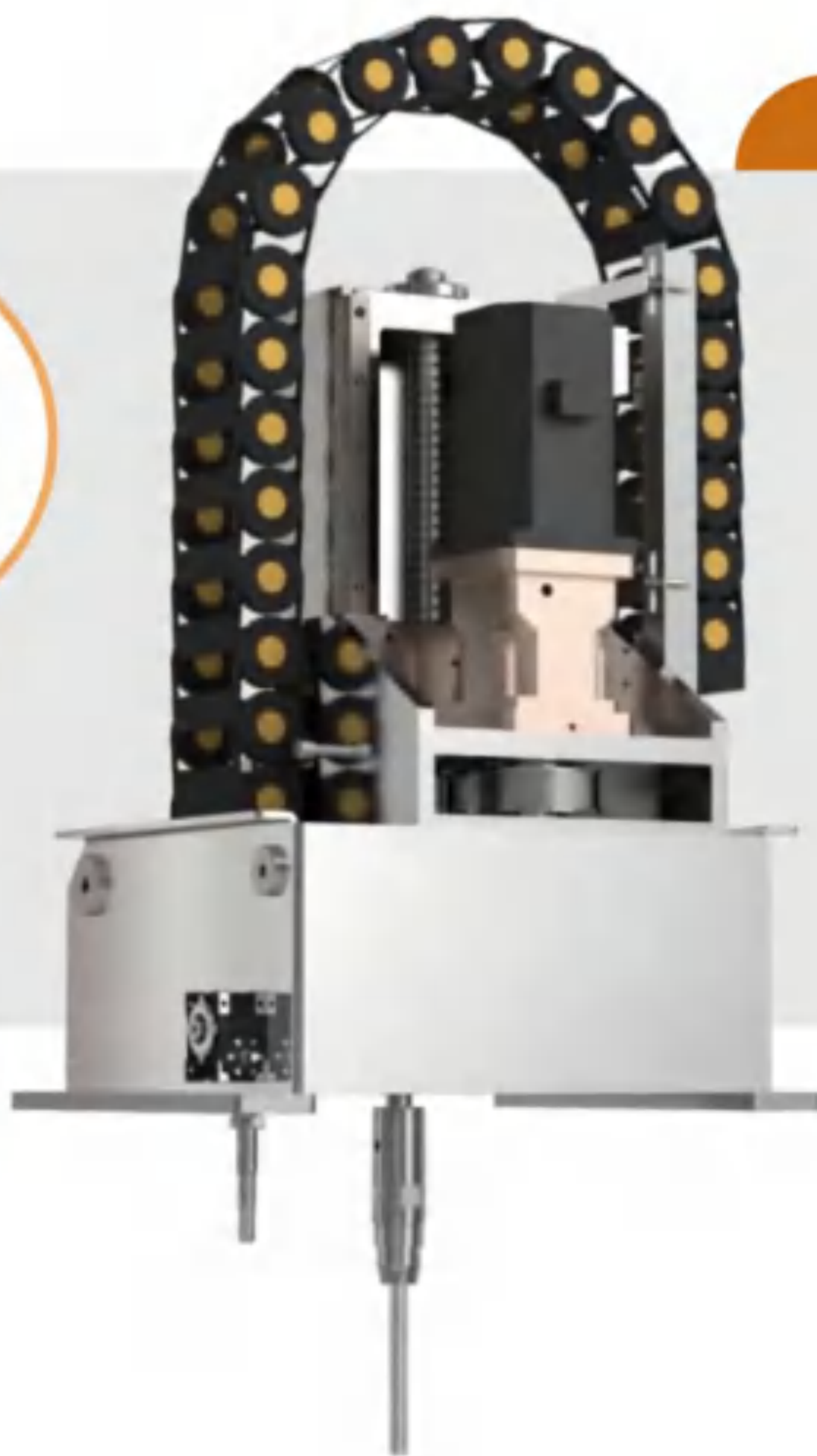
- ✓ The machine is designed for producing 30-liter chemical barrels.
- ✓ The Sailong electric mold head has a powerful 90KW Φ 100 extrusion system.
- ✓ It works with various hollow materials like HDPE5502, HDPE5401B, and HDPE50100.
- ✓ The weight deviation of the extruded tube is $\leq \pm 20g$ every 30 seconds.
- ✓ Color change time is ≤ 60 minutes, improving production efficiency.
- ✓ The convergence line is highly durable, enduring 3 drops from a height of 1.2 meters without breaking, ensuring product quality.

mold head

electric mold frame

- ✓ Hydraulic lock mold with a locking force $\geq 28T$.
- ✓ Opening and closing mold distance: 480-880mm, opening/closing time ≤ 1.5 seconds.
- ✓ Electric swing arm mold transfer with a stroke of 550mm and transfer time ≤ 1.1 seconds.
- ✓ Motor-driven mold opening and closing with synchronous operation and lifting capability.
- ✓ Required motor power: 4.5KW, suitable for a 30-ton high-pressure locking mold.





- ✓ The blowing machine has a second sizing and third station auxiliary cooling air rod for bottles with a neck diameter of 80mm or less.
- ✓ It accommodates a 650mm swing frame stroke and is suitable for $\Phi 45$ to $\Phi 50$ bottle neck inner diameters, with a minimum blowing tube diameter of 16mm.
- ✓ The system ensures bottle stability, provides air circulation cooling, and corrects the bottle neck.
- ✓ It also includes multi-station auxiliary cooling with water and air methods to prevent convex bottoms.

integral frame with longitudinal ribs

- ✓ High-precision molding: Improved support structure and control system for consistent shape and size.
- ✓ Fast production: Optimized structure, reduced vibration, and increased speed and efficiency.
- ✓ Long lifespan: Durable materials, enhanced lubrication, and maintenance for extended usage.
- ✓ Precise control: Advanced control systems ensure accurate control and high product quality.
- ✓ Safety: Strengthened structure, added safety devices, and measures for operator safety.



- ✓ The blowing machine has secondary sizing and multi-station auxiliary cooling.
- ✓ It ensures stable bottle shape and inserts below the neck by at least 80mm.
- ✓ It is suitable for $\Phi 45$ to $\Phi 50$ bottle neck inner diameters, with a minimum blowing tube diameter of 16mm.
- ✓ The system provides air circulation cooling, neck correction, lower bottle bottom cooling to prevent convex bottoms, using both water and air cooling methods.

secondary sizing
clamping device

Three-station cooling and
correction device



Bottle-picking robotic arm

Automated bottle handling for increased efficiency and cost reduction.

bottom ejection device

Bottle ejection device for removing plastic bottles from the mold, ensuring stable bottom shape.

bottle ejection assembly

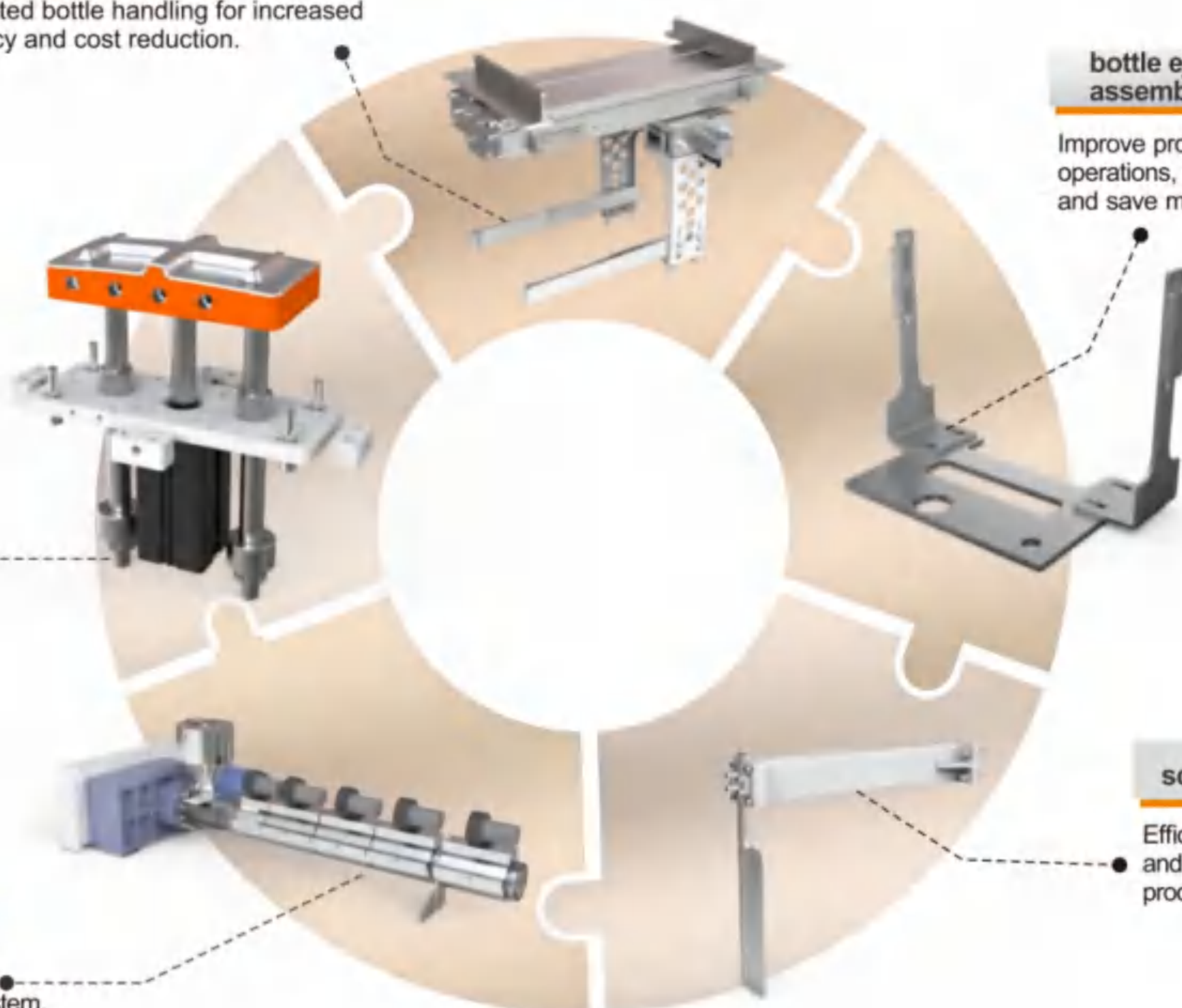
Improve production efficiency, automate operations, ensure smooth production, and save manpower.

electromagnetic heating extrusion system

Efficient, energy-saving, precise, responsive, and safe heating system.

scraping device

Efficient cleaning, resource-saving, and automated operation for improved production efficiency.



CYLON SERIES ELECTRIC

essential specifications

Code	/	S2-450
Category	/	single layer
Max. Blow Volume	L	30L
Material	/	PE,PP
No.Of Die Head	/	1
Die Head Distance (Center to Center)	mm	/
Die Head Distance (Center to Center)	kg	16000
Machine Dimension	mm, L×W×H	L5205×W2783×H4259
Noise	dB(A)	<85
Die head		
Die Head Heating Zone	/	7
Die Head Heating Power	kW	32
Mold clamping device		
No.Of Station	kw	4.5
Min Clamping Distance Of Mold	mm	480
Min Clamping Distance Of Mold		
Effective Dimension Of Mold Plate	kw	4.5
Carriage Stroke	kw	98.99
Clamping Force	kN	280
extrusion system		
Extruder Diameter	mm	100
Extruder Length/Diameter Ratio	L/D	27
Extruder Rotating Speedr/min	r/min	20~75
Max Extrusion Capacity	kg/h	320
Extrusion motor rated power	kW	90

CYLON SERIES ELECTRIC

extrusion system

Extruder Motor Power	KW	90
Barrel Heating Zone	/	5
Barrel Heating Power	KW	22.4
Cooling Fan Power	KW	1.85

power system

rated power of insert pen servo moto	KW	4.5
rated power of lock mold servo motor	KW	4.5
rated power of swing frame servo motor	KW	5.5
rated power of lifting motor	KW	3
rated power of lubricating oil pump mot	KW	0.1
power of hot knife transformer	KW	2
Rated working pressure of pneumatic system	Mpa	0.6-0.8
Rated working pressure of water cooling system	Mpa	0.4-0.6
Air consumption of general products (after compression)	m ³ /h	240
Total installed power	KW	173.5

