

19L Polycarbonate Bottle Blow Molding Machine

This 19 Litre PC Bottle Making Machine creates bottles directly from polycarbonate raw material. The 19L Polycarbonate Bottle Blow Molding Machine is designed for efficient and consistent production.



ADDITIONAL IMAGES



Product Overview

High-Efficiency PC Bottle Production

This specialized blow molding machine is designed to transform raw polycarbonate (PC) granules directly into 19-liter (5-gallon) bottles without the need for preforms. It offers a streamlined production process that is easy to operate and maintain, making it an ideal solution for manufacturing large-format water containers. The system supports various bottle designs, including those with or without handles, ensuring versatility for different market needs.

Key Performance Metrics

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60 pcs/hr

Production Capacity

19 L

Bottle Volume

190 kN

Clamping Force

Plasticizing System

Plasticizing Specifications

Parameter	Value
Screw Diameter	85 mm
Screw L/D Ratio	28:1
Plasticizing Rate	80 kg/hr
Injection Stroke	360 mm
Screw Speed Range	10-56 rph

Clamping & Mold

Clamping System Details

Feature	Measurement
Clamping Stroke	350 mm
Mould Thickness Range	370-410 mm
Max Opening between Platens	720 mm

Power & Utilities

Power Consumption

Component	Rating (kW)
General Power	84
Hydraulic Motor	37
Electrical Heating Power	44
Average Electrical Power Rating	58

Utility Requirements

- Air Source: 6-10 bar pressure
- Air Consumption: 0.4 M3/min
- Water Source: 2-3 bar pressure
- Water Consumption: 6 M3/min

Control System

Control Features

- 100-point wall thickness control
- 6-inch color display interface

Physical Characteristics

Dimensions (L x W x H)	4,985 x 1,465 x 2,765 mm
Machine Weight	6 tons

Production Process

Production Workflow

- Load PC resin granules into the hopper
- Melted PC resin enters the mold
- Resin is shaped into a bottle within the mold
- Mold opens for bottle removal

Supported Bottle Types

2 Gallon • 3 Gallon • 5 Gallon • With Handle • Without Handle

Compatible Materials	Polycarbonate (PC), PC Granules
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