

Polycarbonate Bottle Blow Molding Machine

This machine produces bottles directly from polycarbonate raw material using blow molding. It is capable of making 3-gallon, 5-gallon, 11-liter and 19-liter bottles.



ADDITIONAL IMAGES



Overview

High-Efficiency Polycarbonate Blow Molding

This advanced blow molding machine is engineered to transform polycarbonate (PC) resin granules directly into high-quality 20-liter or 5-gallon bottles. By eliminating the need for preforms, it streamlines the production process, allowing for efficient, high-volume manufacturing of durable containers with or without handles. The system features precise wall thickness control and a robust clamping unit to ensure consistent, professional-grade results for the beverage industry.

Production Capabilities

Key Performance Metrics

60 pcs/hr Production Capacity	20 L Bottle Volume	98 % Qualification Rate
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Compatible Bottle Types

20 Litre, 5 Gallon, With Handle, Without Handle

Plasticizing System

Plasticizing Specifications

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

Clamping System

Clamping System Details

- Clamping Force: 190 kN
- Clamping Stroke: 350 mm
- Mould Thickness Range: 370-410 mm
- Max Opening between Platens: 720 mm

Power and Utilities

Power Consumption

84 kW

General Power

58 kW

Average Electrical Rating

Utility Requirements

Utility	Requirement
Air Pressure	6-10 bar
Air Consumption	0.4 m ³ /min
Water Pressure	2-3 bar
Water Consumption	6 m ³ /min

Machine Specifications

Dimensions and Weight

- Dimensions: 4,985 x 1,465 x 2,765 mm
- Weight: 6 tons (excluding hydraulic oil and mould)

Control System

100-point wall thickness control with 6" color display