

20 Liter Polycarbonate Bottle Blow Molding Machine

This blow molding machine is designed for manufacturing 20-liter polycarbonate (PC) bottles. It utilizes a blow molding process to create durable and high-quality bottles suitable for various applications.



ADDITIONAL IMAGES



Product Overview

High-Efficiency PC Bottle Production

This industrial blow molding machine is engineered to produce 20-liter polycarbonate (PC) bottles directly from raw resin granules, eliminating the need for preforms. The system offers a streamlined production process suitable for water and beverage facilities, capable of manufacturing durable bottles with or without handles. It features advanced wall thickness control and robust construction to ensure consistent quality and reliable operation.

Production Performance

Key Performance Metrics

60 pcs/hr

Production Capacity

20 L

Bottle Volume

98 %

Qualification Rate

Technical Specifications

Mechanical Details

Parameter	Specification
Screw Diameter	85 mm
Screw L/D Ratio	28
Plasticizing Rate	80 kg/hr
Injection Stroke	360 mm
Clamping Force	190 kN
Clamping Stroke	350 mm
Mould Thickness Range	370-410 mm

Power and Utilities

Utility Requirements

- General Power: 84 kW
- Average Electrical Power Rating: 58 kW
- Hydraulic Motor: 37 kW
- Electrical Heating Power: 44 kW
- Air Source Pressure: 6-10 bar
- Air Consumption: 0.4 m³/min
- Water Pressure: 2-3 bar
- Water Consumption: 6 m³/min

Physical Dimensions

Dimensions and Weight

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

Control System

Control System Features

100-point wall thickness control, 6-inch colour display