

Used MAGIC MOD. MGL5 blow molding machine

Machine type:	Blow Molding Machine
Ref:	SO142
Model:	MGL5
Year:	2000
Condition:	Ready For Operation
Formats:	5 L

Technical details

Type:	Linear	No. of cavities:	1
Elevator:	No	Preforms tipper:	No
Unscrambler:	No	Compressor:	Not stated
Chiller:	N/A	Preform neck type:	N/A
Air Recovery System:	Not stated	Safety features:	Yes
Manuals:	No	Width:	2200 mm
Length:	4250 mm	Height:	2900 mm
Weight:	7000 kg	Power:	62 kW

Description

Used MAGIC MOD. MGL5 blow molding machine

Technical Specifications & Performance Data

This extrusion blow molding machine is engineered for producing hollow plastic containers with consistent quality and reliability. Configured with a single carriage and single head, it is tailored for medium-format containers up to 5.0 liters, offering robust performance for industrial packaging applications. The machine has undergone a major overhaul and is in perfect working order, both mechanically and electronically.

- **Maximum container volume:** 5.0 L
- **Machine type:** Extrusion blow molding, single carriage, single head
- **Clamping force:** 83 kN
- **Hydraulic working pressure:** 160 bar
- **Blow nozzle pressure:** 0–70 bar

- **Extruder screw diameter:** 70 mm
- **Extruder motor power:** 29 kW
- **Extruder heating power:** 10.6 kW
- **Head heating power (single head):** 3.4 kW
- **Maximum die diameter (single head):** 120 mm
- **Mold opening stroke:** 210 mm
- **Maximum mold dimensions (W – Thickness – H):** 400 / 2×110 / 400 mm
- **Hydraulic pump/Power unit motor:** 18.5 kW
- **Installed power (total):** 62 kW
- **Average electrical consumption:** 40 kW
- **Blowing air pressure:** 6–8 bar
- **Air consumption:** 800 NI/min
- **Cooling water pressure:** 2–3 bar
- **Cooling capacity (water):** 30,000 Kcal/h
- **Hydraulic oil tank capacity:** 270 L
- **Machine footprint (W × L × H):** 2200 × 4250 × 2900 mm
- **Complete system weight:** 7000 kg
- **Model code:** MGL5

Advanced Automation & Control Systems

The machine is equipped with a new Gefran PLC, delivering updated electronic control and a modernized program to ensure repeatable cycles, reliable temperature regulation, and stable extrusion. Multi-zone temperature management covers the extruder and head heating, providing precise control over melt conditions and wall thickness quality. Operator-friendly diagnostics support fast setup and streamlined troubleshooting, while integrated interlocks and status monitoring promote safe, efficient operation. The control architecture supports consistent processing of HDPE with accurate setpoint management, alarms, and real-time process visibility.

Production Line Integration Capabilities

Designed for straightforward integration into industrial packaging and used bottling line environments, the machine features a part discharge belt conveyor for clean outfeed handling. It can be paired with downstream trimming, leak testing, visual inspection, and packing systems to create a complete second hand production cell. Format compatibility focuses on containers up to 5.0 liters, with a structure well-suited for HDPE bottles, jerrycans, and similar industrial packaging formats.

Machine Condition & Maintenance History

The unit is reported in excellent condition and fully operational, with functionality verifiable by video. The control system has been updated with a new Gefran PLC, indicating recent electronic modernization. Overall, the machine is ready for

operation, suitable for rapid deployment into production with standard commissioning.

Operational Performance & Versatility

This single-head, single-carriage configuration is optimized for producing medium-volume HDPE containers with stable cycle times and reliable parison control. The robust clamping force of 83 kN and controlled blow pressure range of 0–70 bar support consistent container definition and mechanical strength. The included hole control system enhances quality assurance by verifying critical features during discharge, while the compact footprint helps integrate the system into existing beverage production or industrial packaging layouts where space optimization matters.

Installation Requirements & Site Preparation

Site utilities should provide blowing air at 6–8 bar and chilled/process water at 2–3 bar with a cooling capacity of approximately 30,000 Kcal/h. Electrical supply must accommodate up to 62 kW of installed power, with typical average consumption around 40 kW depending on product and cycle parameters. Allocate floor space corresponding to 2200 × 4250 × 2900 mm and consider access for mold changes, maintenance, and material handling of resin and finished goods.

Safety Standards & Compliance Certification

The machine incorporates standard operator protections for blow molding operations, including guarded access and emergency stop functionality integrated into the PLC control. The safety approach supports secure setup, operation, and maintenance in line with common industrial practices for food and beverage packaging equipment and broader industrial applications.