

BM 201 Blow Molding Machine

For the Production of Plastic Packaging from 60 up to 250 Liters

Single-station high performance extrusion blow molding machine.
State-of-the-art blow molding technology. Single and Multilayer technology available.



Blow Molding Machine BM 201

The BM 201 blow molding machine is mainly used for the production of big size plastic packaging like the Mauser Packaging Solutions L-Ring and Open Top drums. According to the market requirements this machine can be customized by optional systems accessories, like fully automated deflashing, weighing, leaktesting, and others.

Besides supplying the blow molding machine, blow molds and peripheral production equipment, Mauser Packaging Solutions makes available to partners a profound know-how based on many decades of experience as a packaging producer and market leader in blow molding technology.

Advantages:

- ▶ Outstanding performance, productivity and reliability
- ▶ High productivity, up to 100 parts per hour with aftercooling equipment (220L Open Top drum)
- ▶ Fully automatic in-line production possible
- ▶ Top production flexibility through outstanding multilayer extrusion technology
- ▶ Advanced security systems for safe operation
- ▶ Easy operation and maintenance, long service life

Technical features

Product volume ¹⁾	liters	60 - 250
Output ^{1) 2)}		up to 45 pcs/h
Options:		others than indicated on request

Extruder

With grooved feeding zone and barrier screw. Suitable for processing HMW-HDPE as coarse powder or pellets.

Number of extruders	pcs.	1	2	3
Screw diameter/length	mm	120 / 30D	90 / 30D	2 x 75 / 30D / 1 x 120 / 30D
Electric drive power range	kW	160	95 each	70 each / 160
Screw speed range	rpm	5 - 45	8 - 75	30 - 100 / 5 - 50
Melting capacity ²⁾	kg/h	450	250 each	160 each / 450
Heating zones	pcs.	4	4 each	4 each
Heating capacity ³⁾	kW	40	30 each	22 each / 40

Extrusion Head

Helix distributor, FIFO principle with multiple overlapping melt distribution system. Parison forming by axial and radial wall thickness control. PWDS as option.

Number of layers	nos.	1	2	3
Volume	liters	20 or 25	25	
Max. weight of ejection parison	kg	15 or 18.75	18.75	continuous extrusion
Die Diameter	mm	165 - 230	165 - 230	150 - 290
Heating zones	pcs.	7 or 5	5	6
Heating capacity ³⁾	kW	35	35	70

Clamping Unit

3-platen system connected by four tie bars with two clamping cylinders. Designed for carrying extra heavy molds, long service life and precise mold closing.

Clamping force (at 150 bar)	kN	750
Max. mold dimensions (WxHxD)	mm	850 x 1,490 x 1,100
Min./max. opening between platens	mm	790 / 1,590

Accumulator Hydraulic Unit

Easily accessible accumulator hydraulic power system, with separate pump for oil cooler and bypass filter system. Proportional valves for excellent reproducibility of machine movements. Servo valves for wall-thickness control system WDS and PDS or PWDS.

Tank volume	liters	600	600	600
Op. pressure parison ejection + clamping unit	bar	150	150	150
Op. pressure servo control (parison forming)	bar	210	210	120
Electric drives hydraulic ⁴⁾	kW	50	50	32

Machine Control System and Human Machine Interface (HMI)

Decentralized installation of control cabinets. Cabinets built according to IEC standards with VDE approved parts.

PLC: Visualization: Siemens WinCC, Axial/ radial wall thickness control: 128 points controller. Ethernet interface for remote service.

Energy Requirements ³⁾

Air ⁵⁾	m ³ /min	2	2	3
Cold water ⁵⁾	m ³ /h	35	40	45
Electric drives / heating	kW	210 / 75	240 / 95	292 / 134
Total connected load	kW	285	345	426
Average consumption ⁵⁾	kWh	171	207	256

Space Requirements ³⁾

Width	mm	6,600	6,600	8,600
Length	mm	10,000	10,000	11,000
Height	mm	5,800	5,650	8,500

1) Depending on mold design and product 2) Depending on raw material 3) Approximate values 4) Depending on the type of head, resp. hydraulic system

5) Depending on process conditions the values of this data sheet are for information only and not binding. Alterations reserved.

Comprehensive quality assurance

Mauser Packaging Solutions is certified according to ISO 9001 and ISO 14001 standards. Our company's production processes are subject to constant quality control as well as external monitoring in regard to development, production, sales and services of blow molding machines.

The individual blow molding solution

Besides supplying our standard high performance blow molding machines, Mauser Packaging Solutions experts are always ready to engineer tailor-made blow molding production lines including all peripheral equipment. Individual blow molding solutions for you and your specific requirements. **Ask us!** We would be happy to advise you.

Mauser Packaging Solutions

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