

BM 2001 Blow Molding Machine

For the Production of Plastic Packaging from 500 up to 1,500 Liters

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



Mauser Packaging Solutions Blow Molding Machine BM 2001

The Mauser Packaging Solutions BM 2001 blow molding machine is mainly used for the production of 1.000 l IBCs such like the patented Mauser Packaging Solutions SM IBC. According to the market requirements this machine can also be customized for the production of L-Ring and Open Top drums, water tanks, plastic pallets and similar products. Optional systems accessories, like fully automated deflashing, weighing, leaktesting, etc., are available.

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.

Technical features

Product volume ¹⁾	liters	500 - 1,500
Output ^{1) 2) 3)}		up to 35 pcs/h
Options:		others than indicated on request

Extruder

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

	pcs.	1	2	3 (2+1)
Number of extruders		1	2	3 (2+1)
Screw diameter/length	mm	150 / 26D	120 / 30D	2 x 120 / 30D / 1 x 60 / 33D
Electric drive power range	kW	250	160 each	160 each / 50
Screw speed range	rpm	4 - 45	5 - 50	5 - 50 / 8 - 75
Melting capacity ²⁾	kg/h	700	450 each	450 each / 100
Heating zones	pcs.	4	4 each	4 each
Heating capacity ³⁾	kW	48	40 each	40 each / 12

Clamping Unit

2-platen system connected by four locking modules. Designed for carrying extra heavy molds, long service life and precise mold closing.

Clamping force (at 150 bar)	kN	1,500 (4x 375)
Max. mold dimensions (WxHxD)	mm	1,500 x 1,700 x 1,380 (Option: 1,500 x 2,200 x 1,380)
Min./max. opening between platens	mm	1,168 or 1,390/2,650

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.

	liters	800	800	800
Tank volume		800	800	800
Op. pressure parison ejection + clamping unit	bar	150	150	150
Op. pressure servo control (parison forming)	bar	120 - 180	120 - 180	120 - 180
Electric drives hydraulic ⁴⁾	kW	55	55	55

Energy Requirements ³⁾

	m ³ /min	8	8	8
Air ⁵⁾		8	8	8
Cold water ⁵⁾	m ³ /h	75	75	75
Electric drives / heating	kW	315/133	375/165	425/202
Total connected load	kW	448	550	635
Average consumption ⁵⁾	kWh	268	330	381

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.

Specific Advantages

- ▶ Outstanding performance, productivity and reliability
- ▶ High productivity, >30 parts per hour (1.00L IBC)
- ▶ Fully automatic in-line production possible
- ▶ Long life design
- ▶ Top product quality through outstanding extrusion technology
- ▶ Advanced security systems for safe operation
- ▶ Easy operation and maintenance by self-explaining control system

Extrusion Head

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

	nos.	1	2	2 + 1
Number of layers		1	2	2 + 1
Volume	liters	50	50	50 + 5
Max. weight of ejection parison	kg	37.50	37.50	37.50
Die diameter	mm	220 - 550	220 - 550	220-550
Heating zones	pcs.	6	6	6
Heating capacity ³⁾	kW	85	85	85 + 25

Machine Control System and Human Machine Interface (HMI)

Decentralized installation of control cabinets. Cabinets built according to IEC standards with VDE approved parts. PLC: Siemens, Visualization: Siemens WinCC, Axial/ radial wall thickness control: 128 points controller. Ethernet interface for remote service.

Space Requirements ³⁾

	mm	11,500	11,500	11500
Width		11,500	11,500	11500
Length	mm	12,000	12,500	12,500
Height	mm	7,000	7,500	7,500

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.**

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