

BM 202 Blow Molding Machine

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

- ▶ Double-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 202

The Mauser Packaging Solutions BM 202 blow molding machine is mainly used for the production of big size plastic packagings 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, etc..

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	60 - 250
Output ^{1) 2) 5)}		up to 100 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.

Number of extruders	pcs.	1	2	3	4
Screw diameter/length	mm	150 / 26D	120 / 30D	2 x 90 / 32D / 1 x 150 / 26D	2 x 90 / 32D / 2 x 120 / 30D
Electric drive power range	kW	250	160 each	95 each / 250	95 each / 160 each
Screw speed range	rpm	4 - 45	5 - 50	8 - 75 / 4 - 45	8 - 75 / 5 - 50
Melting capacity ²⁾	kg/h	700	450 each	250 each / 700	250 each / 450 each
Heating zones	pcs.	4	4 each	4 each	4 each
Heating capacity ³⁾	kW	48	40 each	30 each / 48	30 each / 40 each

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	4
Volume	liters	25	25		
Max. weight of ejection parison	kg	18.75	18.75	continuous extrusion	continuous extrusion
Die diameter	mm	165 - 230	165 - 230	150 - 290	150 - 290
Heating zones	pcs.	5	5	6	6
Heating capacity ³⁾	kW	35	35	70	80

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

Energy Requirements ³⁾

Air ⁵⁾	m ³ /min	4	4	4	4
Cold water ⁵⁾	m ³ /h	75	75	75	75
Electric drives / heating	kW	300/83	370/115	475/178	542/220
Total connected load	kW	400	500	670	790
Average consumption ⁵⁾	kWh	235	300	400	470

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, up to 100 parts per hour with after cooling equipment (200L Open Top drum)
- ▶ Fully automatic in-line production possible
- ▶ Top product quality through outstanding extrusion technology
- ▶ High productivity, up to 100 parts per hour with aftercooling equipment (220L Open Top drum)
- ▶ Easy operation and maintenance by self-explaining control system

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⁾

Width	mm	12,000	12,000	10,500	10,500
Length	mm	10,000	10,000	15,800	15,000
Height	mm	6,000	6,500	8,500	8,500

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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