

## SBM 21 Extrusion Blow Molding Machine

For the Production of High Quality Plastic Packaging from 20-30 Liters

- ▶ Single station high performance extrusion blow molding machine
  - ▶ State-of-the-art blow molding technology
  - ▶ Single layer, continuous extrusion technology



# Mauser Packaging Solutions Blow Molding Machine SBM 21

The SBM 21 blow molding machine is mainly used for the production of high quality jerrycans from 20 up to 30L volume. According to the market requirements this machine can be customized by optional systems accessories, like fully automated weighing, leak testing, 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.

## Your benefit

- ▶ Outstanding performance, productivity and reliability
- ▶ Top product quality through outstanding extrusion technology
- ▶ Standard wall thickness control by WDS and SDDR
- ▶ Easy to use control system (Beckhoff PC based technology)
- ▶ Remote service via Internet
- ▶ Bottom blow
- ▶ Integrated after cooling and deflashing unit
- ▶ Fully automatic in-line production possible
- ▶ Long life design, easy maintenance
- ▶ Compact design

## Highlights

- ▶ Cooperation between Sabmann Blasformtechnik Thailand and Mauser Packaging Solutions Maschinentechnik Germany
- ▶ SABMANN and Mauser Packaging Solutions both certified according to ISO 2001:2008
- ▶ Best-in-class blow molding technology
- ▶ Standard machine components by well-known German/European makers
- ▶ Know-how and process expertise by Mauser Packaging Solutions specialists
- ▶ Worldwide service by SABMANN/Mauser Packaging Solutions

## Technical features

Blow molding machine type	double station, single head	SMB 21
Product volume <sup>1)</sup>	liters	20-30
Machine Output <sup>1), 2), 3), 4)</sup>	pcs/h (at 20 l, 1,000 g)	>100
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.

Screw diameter/ length	mm	90/300
Mixing tip	Mauser Packaging Solutions	MMS
Melting capacity <sup>2) 3)</sup>	kg/h	>250
Electric drive	kW	95
Heating capacity	kW	30

### Extruder Head C1

Single layer continuous extrusion head with double heart curve melt distribution system. Parison forming by WDS/SDDR system. PWDS as option. View stripe as option.

Die diameter	mm	120 - 200
Heating capacity	kW	25

### Clamping Units

3-platen, 4 tie bars system with one clamping cylinder each. Designed for carrying extra heavy molds, long service life and precise mold closing.

Clamping force	kN	300
Mold length	mm	700
Mold width	mm	2 x 225
Mold depth	mm	740
Mold opening stroke	mm	400

### Machine Control System and Human Machine Interface (HMI)

Beckhoff PC technology. SABMANN TwinCat based software. Ethernet interface for remote service. Axial/radial wall thickness control: 100 points

### Hydraulic Unit - Rexroth

Easily accessible hydraulic power pack.

Operating pressure clamping unit	bar	200
Operating pressure servo control (for parison forming)	bar	120
Electric drives hydraulic power pack	kW	36

### Energy Requirements <sup>3) 4)</sup>

Air	Nm <sup>3</sup> /min	2
Cold water	m <sup>3</sup> /h	20
Electric drives/heating	kW	117/55
Total connected load	kW	185
Average consumption	kWh	92

### Space Requirements <sup>3)</sup>

Width	mm	4,400
Length	mm	7,500
Height	mm	5,400

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

1515 W. 22nd Street  
Oak Brook, IL 60523

Phone: (603) 203-4100  
Fax: (603) 203-4110

info@mauserpackaging.com  
mauserpackaging.com