

# BS 47

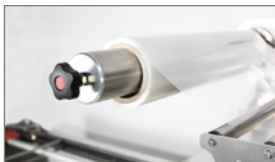
## Technical data

External dimensions	2,50 x 0,99 x 1,66 m*
Max. sealing area	400 x 275 mm
Maxi. foil width	470 mm
Max. height of tray	on request
Maxi. foil diameter	220 mm ø
Working cycle	4-5 per minute with vacuum** 8-10 per minute without vacuum**
Chamber depth	100 mm***
Weight	550 kg
Vacuum pump	100 m <sup>3</sup> /h
Electric connection	3 phases, 230/400 V, 50 Hz
Power	3,9 kW



\* width x depth x height  
 \*\* depending on the set process parameters  
 \*\*\* Standard height of the vacuum chamber 100 mm (60 mm possible on customer request)

## Quality characteristics



### Construction

BS packaging machines are completely made from high-quality individual components such as stainless steel and Peraluman aluminium alloys. They guarantee long-term operational capability and meet the requirements of protection rating IP 55 with their splash-proof elements, clear structure, robust engineering and well-thought-out design.



### User-friendliness

The Siemens programmable logic control (PLC) is equipped with a precision sensor and a clear "Touch Screen" control panel which makes precise setting of important operating parameters possible. These can be tailored individually to suit the foil and tray properties and different tray depths.



### Sealing

The perfect interaction of stable sealing temperature and constant contact pressure guarantees optimal packaging outcomes. The tray check on the input side triggers the sealing automatically; the printed foil is identified by a photocell and positioned correctly. The punched foil is collected by a surplus foil winder.



### Productivity

The automatic tray feed makes a high capacity possible with low personnel engagement times. A change of format can easily be effected with exchangeable tools and this guarantees quick readiness for operation. The wide range of standard tools results in quick response times. Customer specific sealing frames can be produced if required.

### Machine structure



### Features in detail

The automatic tray sealing machine has a vacuum and protective gas function for producing MAP packagings. It convinces thanks to its high level of user-friendliness and a service-focused design in line with demanding hygiene regulations.

#### Conveyor belt



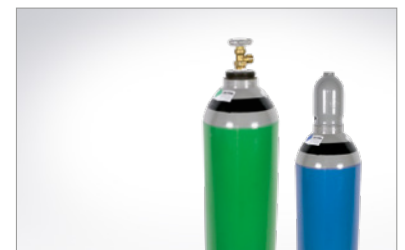
- Integration into existing packaging lines is possible
- Conveying speed variably adjustable
- Photocell for identifying print marks
- Variable for different tray sizes

#### Service-friendly design



- Good visibility of the individual components
- Optimal accessibility of process-relevant elements
- Stainless steel housing
- Loading and passage of the foil hygienically protected
- Sealing frame easy to change
- Built in line with IP 55 standard

#### MAP function









- Vacuum and gas controlled by digital vacuum gauge - PLC control
- Stable packaging outcomes due to the use of a gas storage tank
- Safety valve for use of gases with an oxygen concentration > 21%



### Sealing machine variants

	BS 47	BS 52
Stainless steel housing	✓	✓
Sensor control	Siemens PLC	Siemens PLC
Extended conveyor belt	✓	✓
Vacuum pump	100 m <sup>3</sup> /h	×
Automatic foil collection	✓	✓
Double gas connection	optional	×
Tray guidance system	optional	optional
Skin function	optional	×
High skin function	optional	×
O <sub>2</sub> -valve	✓	×
System for printed foil	✓	✓

### Tray overview (MAP) \*

			
Sealing plates	single use	double use	triple use
Max. with outline cutting	400 × 275	190 × 275	125 × 275
Max. with skin function	380 × 270	180 × 270	×
Max. with high skin function	380 × 270	180 × 270	×
			
Sealing plates	single use	double use	triple use
Max. with outline cutting	ø 275	ø 190	ø 125
Max. with skin function	on request	on request	on request

\* Skin tray sizes available on request.

### Requirements

Compressed air is required for operation of the machine. Please take the following minimum requirement for the air compressor into consideration: Supply pressure 6 bar · generation capacity 200 litres/min. · 50 litre reservoir · compressed air consumption at 6 bar: approx. 30 litres/cycle

## BUSCH vacuum pump

Our sealing machine BS 47 is fitted by default with a oil-lubricated rotary vane vacuum pump made by the BUSCH Company.



### Benefits

- Reduction of oxygen content by up to max. 0.1%
- Constant high vacuum level
- Optimum conservation of moisture-sensitive and /or oxygen-sensitive products
- Long-term replacement part guarantee
- Service-friendly design
- Technically mature, long-life technology Made in Germany
- Gas ballast valve for the evacuation of larger quantities of steam

### Technical data

Nominal pumping speed	100 m <sup>3</sup> /h
Ultimate pressure (mBar)	0,1
Nominal motor rating (kW *)	~ 2,2
Nominal motor speed (U/min)	1450
Noise level (ISO 2151) (dB)	65
Oil capacity (liter)	2

\* depends on the voltage supply

## Options

1. Tool for single, double or triple use
2. Double gas connection
3. Tray guidance system
4. Skin sealing
5. Trays made in PP, PET, CPET, HDPE, etc.
6. Various sealing foils as reel material
7. Export packaging (stable cardboard box on wooden pallet)

