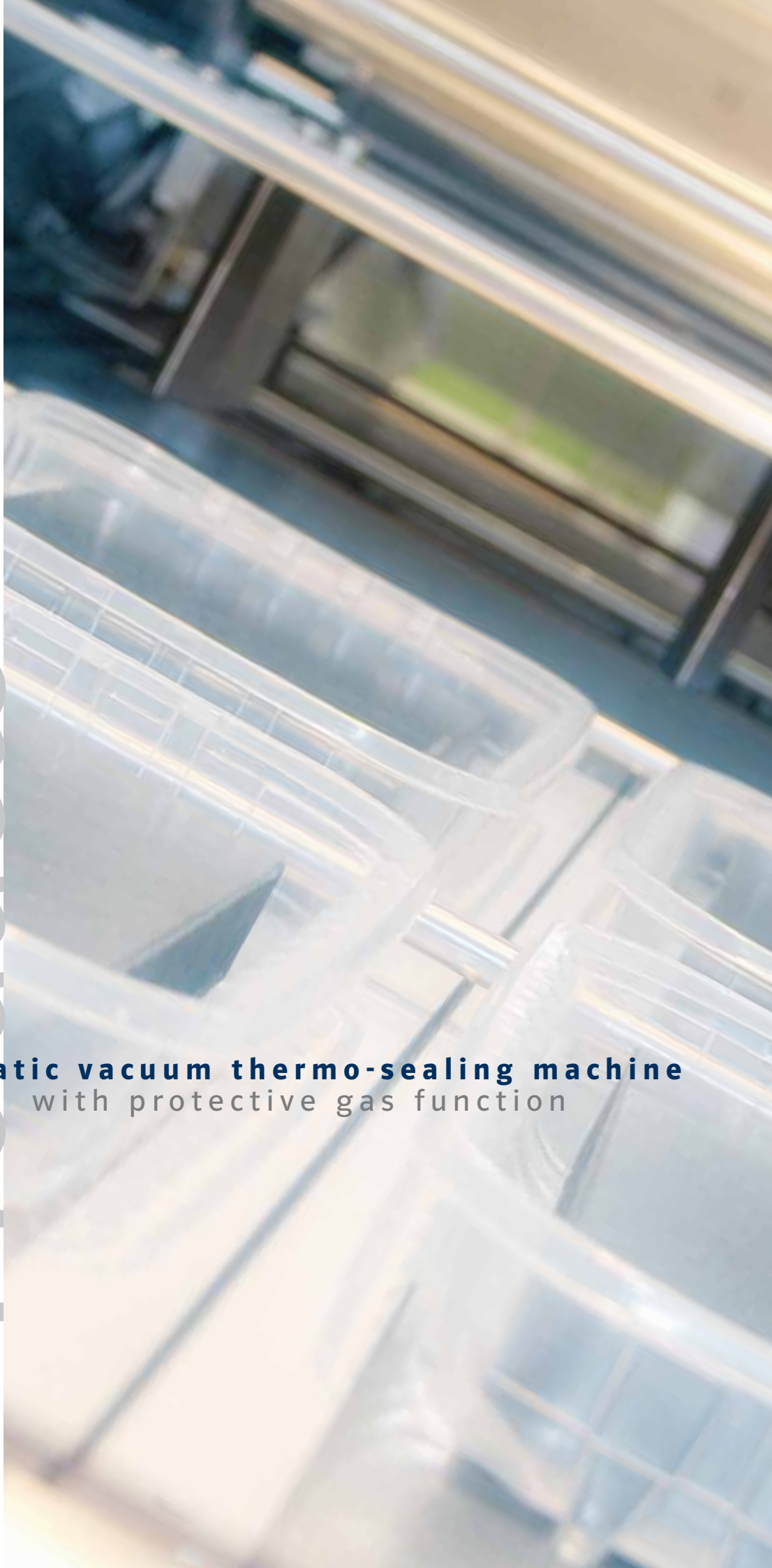


# Products

**Automatic vacuum thermo-sealing machine**  
with protective gas function







# POSSIBLE TOOLS AND TRAYS

BS 34

**Rectangular trays**

**Circular trays**







<b>Single use tool</b>	 280 x 210 x 58	 210 Ø x 58
<b>Double use tool</b>	 148 x 210 x 58	 145 Ø x 58

<b>Maximum seal</b>	280 x 210 mm
<b>Maximum height of the tray</b>	58 mm
<b>Maximum width of the foil</b>	350 mm
<b>Maximum diameter of the foil</b>	220 Ø mm
<b>Cycle</b>	5-6 per minute

BS 47 COMPACT

**Rectangular trays**

**Circular trays**







<b>Single use tool</b>	 400 x 285 x 100	 280 Ø x 100
<b>Double use tool</b>	 280 x 190 x 100	 190 Ø x 100
<b>Triple use tool</b>	 280 x 130 x 100	 130 Ø x 100

<b>Maximum seal</b>	400 x 285 mm
<b>Maximum height of the tray</b>	100* mm
<b>Maximum width of the foil</b>	470 mm
<b>Maximum diameter of the foil</b>	220 Ø mm
<b>Cycle</b>	2-3 per minute

BS 47

**Rectangular trays**

**Circular trays**







<b>Single use tool</b>	 400 x 285 x 100	 280 Ø x 100
<b>Double use tool</b>	 280 x 190 x 100	 190 Ø x 100
<b>Triple use tool</b>	 280 x 130 x 100	 130 Ø x 100

<b>Maximum seal</b>	400 x 285 mm
<b>Maximum height of the tray</b>	100* mm
<b>Maximum width of the foil</b>	470 mm
<b>Maximum diameter of the foil</b>	220 Ø mm
<b>Cycle</b>	5-6 per minute

BS 52

**Rectangular trays**

**Circular trays**

<b>Single use tool</b>	 400 x 285 x 100	 280 Ø x 100
<b>Double use tool</b>	 280 x 190 x 100	 190 Ø x 100
<b>Triple use tool</b>	 280 x 130 x 100	 130 Ø x 100

<b>Maximum seal</b>	400 x 285 mm
<b>Maximum height of the tray</b>	100 mm
<b>Maximum width of the foil</b>	520 mm
<b>Maximum diameter of the foil</b>	220 Ø mm
<b>Cycle</b>	10-12 per minute

*Width x Depth x Height*

*Unit of measurement: mm*

*Ø Diameter of the tray*

*\* Standard depth of the vacuum chamber. 60 mm are possible on inquiry.*

# GENERAL PRODUCT INFORMATION



## Control

Our Siemens control system is equipped with a precision sensor and makes it possible to set exactly important parameters. The intuitive control panel is clearly arranged and easy-to-operate. The temperature of the sealing plate is preset and automatically regulated by a thermostat.



## Design

The construction of the machines is very robust - made of stainless steel AISI 304 and Peraluman aluminium. Because of the serviceable design the components are visible and accessible. The inside of the machines are easy accessible because it is very simple to open the side coverings.



## Output

The tray sealer reaches up to 12 working cycles per minute - depending on the particular model. On the loading plane the tray presence is checked and the sealing process is started automatically. The automatic tray feeding leads to a high output together with a low manpower requirement. Quick readiness to use allows short reaction time.



## Thermo-sealing

Constant sealing temperature and sealing pressure guarantee a safe sealing of the trays. The rest foil is rewind on to a collector device. As an option it is possible to use a sensor to make sure that pre-printed films are placed in the right position.



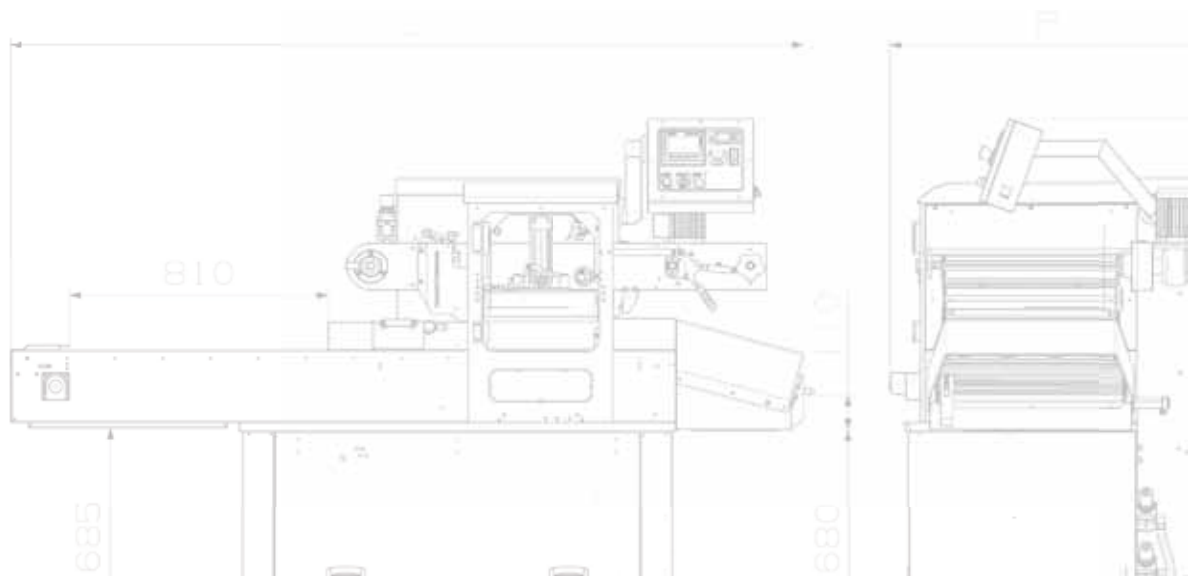
## Sealing tools

We offer a big variety of standard sealing tools and are able to manufacture custom-build tools tailored to special requirements. It is possible to change sealing tools easily and fast, so that it is no problem to work with different tray sizes.



## Hygiene

Clear construction and design, stainless parts and splashproof components allow an easy and quick cleaning of the machine according to high-level hygienic directions. The seal foil spool is hygienically protected during loading and passage.



In 1980 master butcher Helmut Boss, who already established the company Helmut Boss Verpackungsmaschinen KG in 1959, took over the company Gustav Müller & Co.KG to broaden his product range. He let Gustav Müller & Co.KG stay an independent company. Since then Gustav Müller & Co.KG has been producing manual sealing machines to close trays tightly. The focus is on safe packaging of foodstuffs. The professional combination of machine and tray allows various fields of application.

In the second generation, Norbert Boss (technical manager) and Dipl.-Kffr. Waltrud Kunze (commercial manager) head the company. Since 1995 the company has also been offering automatic vacuum thermo-sealing machines for the production of MAP packages in addition to the proved manual sealing machines for the safe sealing of trays, e.g. in the take-away business. Using up-to-date technology the automatic sealing machines are able to package a big variety of products in an efficient and economical way.

**Great experience + high level of technical competence + excellent after-sales service = Your professional partner for packaging machinery.**

#### Sales and service office North/West

##### Andre Rinne

Seerosenweg 5  
27356 Rotenburg (Wümme)  
Tel. +49 4261 672950  
Fax +49 4261 672951  
Mobil +49 163 4144109  
info@bossvakuum.de  
www.vacuum-boss.com

#### Sales and service office East

##### Henri Seeländer

Industriestraße 2  
01129 Dresden  
Tel. +49 351 8480899  
Fax +49 351 8480877  
Mobil +49 172 9616550  
henri.seelaender@t-online.de

#### Sales and service office West/Centre

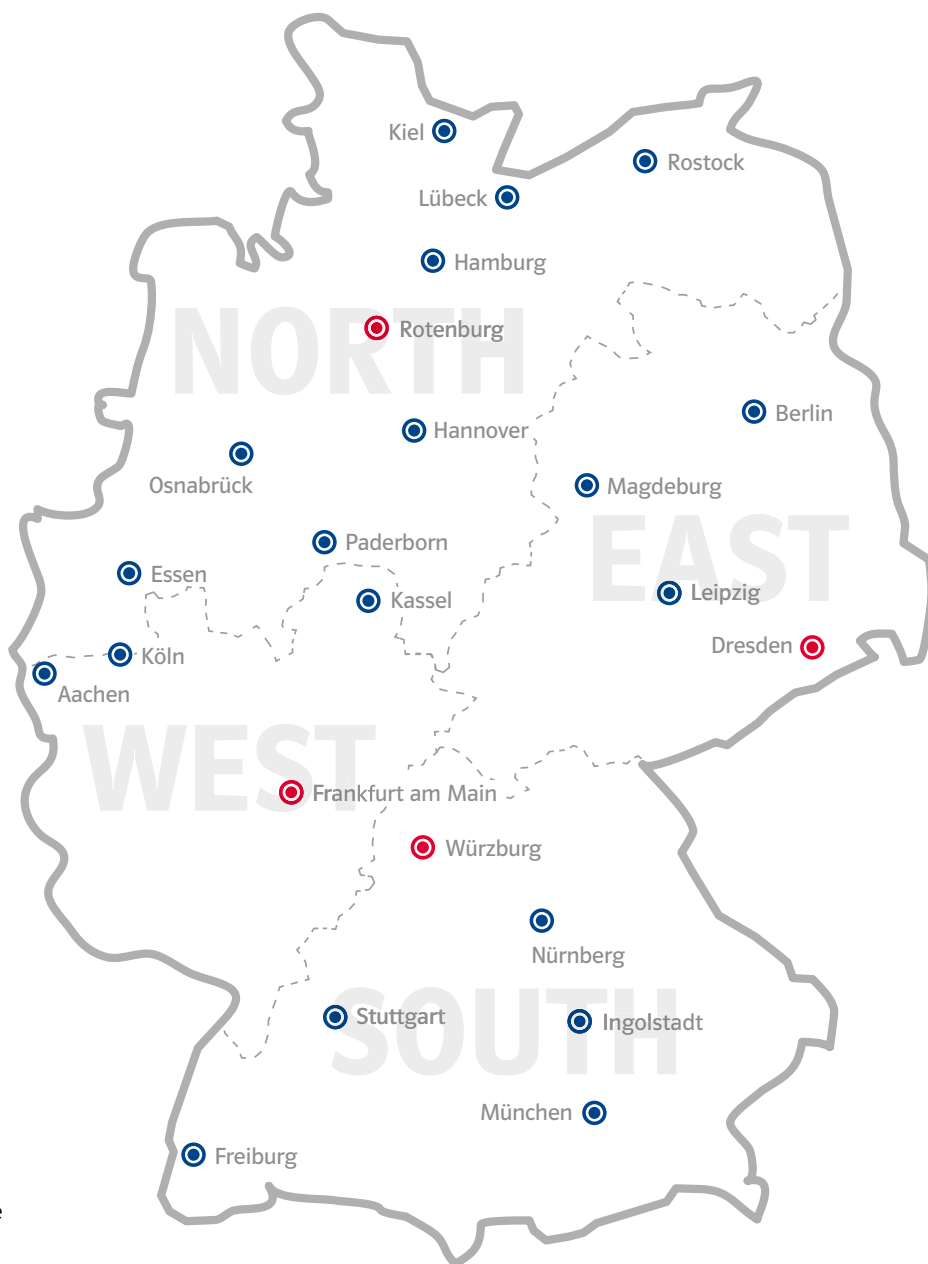
##### Reiner Jung

Allmendstraße 50  
61169 Friedberg  
Tel. +49 6031 15336  
Fax +49 6031 63403  
Mobil +49 171 3244791  
jung-vakuum@t-online.de

#### Sales and service office South

##### Andreas Gruber

Iffigheim 42  
97342 Seinsheim  
Tel. +49 9332 592283  
Fax +49 9332 592284  
Mobil +49 171 2643666  
gruber-vakuum-verpackung@t-online.de



# TYPE BS 34

## BS 34

Automatic vacuum thermo-sealing machine with protective gas function

Our automatic tray sealing machine type BS 34 is equipped with vacuum and protective gas function to allow the production of MAP packages. Compact construction and well thought-out design make it possible to reach a high output without taking up a lot of space.



5-6 per min.



58 mm



280 x 210 mm

Technical data:

Maximum seal	280 x 210 mm
Max. height of tray	58 mm
Working cycle	5-6 per minute
External dimensions	1,75 x 0,74 x 1,45 m
Chamber depth	60 mm
Weight	270 kg
Vacuum pump	100 m <sup>3</sup> /h
Connection	3 x 230/ 400V, 50Hz
Power	3,2 kW



## Description



### Design

- Sealing tools in single and double versions
- Easy and fast change of sealing tools
- Made of stainless steel AISI 304 and Peraluman aluminium
- Mobile unit with rollers



### Thermo-sealing

- Tray presence check on loading plane with automatic start of the sealing process
- Seal foil spool hygienically protected during loading and passage
- Automatic feeding and rest foil collector device



### Control

- Automatic temperature regulation of the sealing plate
- Machine operated by Siemens control system and PLC
- Different programs and tray depths to choose from



### MAP function

- Vacuum and gas controlled by a digital vacuum gauge which is controlled by PLC
- Equipped with gas storage unit to guarantee optimal pressure
- Security valve to make possible use of gas with high oxygen percentage (O<sub>2</sub> >21%)

## Options

Double gas inlet (allocation programmable) ·  
System for pre-printed seal foil · Automatic output queuing system at the exit of machine

## Requirements

For working with the machine compressed air is needed. These minimum features of the compressed air generator have to be fulfilled:  
Incoming pressure: 6 bar · Generation capacity: 150 litres per minute · Storage air tank: 25 litres · Compressed air consumption at 6 bar: approx. 10 litres per cycle

# TYPE BS 47 COMPACT

## BS 47 Compact

Automatic vacuum thermo-sealing machine with protective gas function

The functional design of type BS 47 Compact allows to vacuum, to gas and to seal various tray sizes in a very user-friendly way. The shortened automatic loading conveyor belt simplifies finding an optimal place of erection for the machine.



2-3 per min.



100 mm



400 x 285 mm

### Technical data:

Maximum seal	400 x 285 mm
Max. height of tray	100 mm
Working cycle	2-3 per minute
External dimensions	1,56 x 0,99 x 1,66 m
Chamber depth	100* mm
Weight	420 kg
Vacuum pump	100 m <sup>3</sup> /h
Connection	3 x 230/400V, 50Hz
Power	3,7 kW

\*Standard depth of the vacuum chamber. 60 mm are possible on inquiry.



### Description



#### Design

- Sealing tools in single, double and triple versions
- Easy and fast change of sealing tools
- Made of stainless steel AISI 304 and Peraluman aluminium
- Protection degree IP55



#### Thermo-sealing

- Tray presence check on loading plane with automatic start of the sealing process
- Seal foil spool hygienically protected during loading and passage
- Automatic feeding and rest foil collector device



#### Control

- Automatic temperature regulation of the sealing plate
- Machine operated by Siemens control system and PLC
- Different programs and tray depths to choose from



#### MAP function

- Vacuum and gas controlled by a digital vacuum gauge which is controlled by PLC
- Equipped with gas storage unit to guarantee optimal pressure
- Security valve to make possible use of gas with high oxygen percentage (O<sub>2</sub> >21%)

### Options

System for pre-printed seal foils (inclusive light barrier and control extension)

### Requirements

For working with the machine compressed air is needed. These minimum features of the compressed air generator have to be fulfilled: Incoming pressure: 5 bar · Generation capacity: 200 litres per minute · Storage air tank: 50 litres · Compressed air consumption at 5 bar: approx. 30 litres per cycle

# TYPE BS 47

## BS 47

Automatic vacuum thermo-sealing machine with protective gas function

Our automatic tray sealing machine type BS 47 is equipped with vacuum and protective gas function to allow the production of MAP packages. Important parameters can be set and stored through the user-friendly touch screen. An integrated light barrier recognizes pre-printed foil and starts the optimum positioning of the foil.

### Technical data:

Maximum seal	400 x 285 mm
Max. height of tray	100 mm
Working cycle	5-6 per minute
External dimensions	2,50 x 0,99 x 1,66 m
Chamber depth	100* mm
Weight	520 kg
Vacuum pump	100 m <sup>3</sup> /h
Connection	3 x 230/ 400V, 50Hz
Power	3,9 kW

\*Standard depth of the vacuum chamber. 60 mm are possible on inquiry.



5-6 per min.



100 mm



400 x 285 mm



## Description



### Design

- Sealing tools in single, double and triple versions
- Easy and fast change of sealing tools
- Made of stainless steel AISI 304 and Peraluman aluminium
- Protection degree IP55



### Thermo-sealing

- Pre-printed foil is automatically recognized and correctly positioned.
- Tray presence check on loading plane with automatic start of the sealing process
- Seal foil spool hygienically protected during loading and passage
- Automatic feeding and rest foil collector device



### Control

- Machine operated by Siemens touch screen panel and PLC
- Automatic temperature regulation of the sealing plate
- Different programs and tray depths to choose from



### MAP funktion

- Vacuum and gas controlled by a digital vacuum gauge which is controlled by PLC
- Equipped with gas storage unit to guarantee optimal pressure
- Security valve to make possible use of gas with high oxygen percentage (O<sub>2</sub> >21%)

### Options

Double gas inlet (allocation programmable) · Automatic output queuing system at the exit of machine

## Requirements

For working with the machine compressed air is needed. These minimum features of the compressed air generator have to be fulfilled: Incoming pressure: 5 bar · Generation capacity: 200 litres per minute · Storage air tank: 50 litres · Compressed air consumption at 5 bar: approx. 30 litres per cycle

# TYPE BS 52

## BS 52

Automatic thermo-sealing machine

Our automatic tray sealing machine type BS 52 allows reliable and safe packaging results and a high productivity at the same time. The working rhythm of maximum 12 cycles per minute guarantees a big output. The control equipped with an intuitive touch screen is easy to operate and allows a big variety of settings.



10-12 per min.



100 mm



400 x 285 mm

### Technical data:

Maximum seal	400 x 285 mm
Max. height of tray	100 mm
Working cycle	10-12 per minute
External dimensions	2,50 x 0,99 x 1,66 m
Chamber depth	100 mm
Weight	410 kg
Connection	3 x 230/ 400V, 50Hz
Power	1,7 kW



### Description



#### Design

- Sealing tools in single, double and triple versions
- Easy and fast change of sealing tools
- Made of stainless steel AISI 304 and Peraluman aluminium
- Protection degree IP55



#### Thermo-sealing

- Pre-printed foil is automatically recognized and correctly positioned.
- Tray presence check on loading plane with automatic start of the sealing process
- Seal foil spool hygienically protected during loading and passage
- Automatic feeding and rest foil collector device



#### Control

- Machine operated by Siemens touch screen panel and PLC
- Automatic temperature regulation of the sealing plate
- Different programs and tray depths to choose from

### Options

Automatic output queuing system at the exit of machine

### Requirements

For working with the machine compressed air is needed. These minimum features of the compressed air generator have to be fulfilled: Incoming pressure: 5 bar · Generation capacity: 320 litres per minute · Storage air tank: 200 litres · Compressed air consumption at 5 bar: approx. 21 litres per cycle