AUTOMATIC VACUUM 
THERMO-SEALING MACHINES 
WITH PROTECTIVE GAS FUNCTION

The professional combination of machine and tray allows tight sealing of the trays. The focus is on safe packaging of foodstuffs.

Co.KG has been producing manual sealing machines to close trays tightly. The company has broadened its product range. The company Helmut Boss Verpackung KG was founded in 1959, and the company Gustav Müller & Co. KG was purchased. Currently, the company is led by Andreas Gruber, who has been the owner of the company since 1992.

The company's sales and service offices are located in various cities across Germany:

- South: Andreas Gruber, Sales and service office South, gruber-vakuum-verpackung@t-online.de, Mobil +49 171 2643666, Fax +49 9332 592284, Tel. +49 9332 592283, 97342 Seinsheim, Iffigheim 42
- West/Centre: Reiner Jung, Sales and service office West/Centre, jung-vakuum@t-online.de, Mobil +49 171 3244791, Fax +49 6031 63403, Tel. +49 351 8480899, 61169 Friedberg, Allmendstraße 50
- East: Henri Seeländer, Sales and service office East, henri.seelaender@t-online.de, Mobil +49 172 9616550, Fax +49 4261 672951, Tel. +49 4261 672950, 01129 Dresden, Industriestraße 2
- North/West: Mobil +49 163 4144109, Fax +49 4261 672951, Tel. +49 4261 672950, Seerosenweg 5
- Essen
- Freiburg
- München
- Frankfurt am Main
- Paderborn
- Kassel
- Rotenburg
- Hamburg
- Dresden
- Hannover
- Würzburg
- Lübeck
- Hamburg
- Munich
- Nürnberg
- Ingolstadt
- Osnabrück
- Magdeburg
- Rostock
- Lübeck
- Rotenburg
- Munich
- Nürnberg
- Ingolstadt
- Osnabrück
- Magdeburg
- Rostock
- Lübeck

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 possible to adapt our machines to your specific needs.

We offer various tools for single use, triple use, double use, and have BS 35, BS 47, BS 52, and other standards available.

We provide excellent after-sales service. Our professional partners are always ready to help with any technical questions or problems you might have.

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.

Constant sealing temperature and sealing pressure guarantee a safe sealing of the trays. Thermo-sealing automatically. The automatic tray feeding leads to a high output together with a low manpower use.

Inside of the machines are easy accessible because it is very simple to open the side coverings. The design 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 seal foil spool is hygienically protected during loading and passage. Quick cleaning of the machine according to high-level hygienic directions.

Clear construction and design, stainless parts and splashproof components allow an easy and quick cleaning of the machine according to high-level hygienic directions.

We are always ready to adapt our machines to your specific needs. Please feel free to contact us for more information or to see our products in action.

Contact information:

- Andreas Gruber, Sales and service office South, gruber-vakuum-verpackung@t-online.de, Mobil +49 171 2643666, Fax +49 9332 592284, Tel. +49 9332 592283, 97342 Seinsheim, Iffigheim 42
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www.vacuum-boss.com
**Type BS 47 Compact**

Automatic vacuum thermo-sealing machine BS 47 is equipped with vacuum and protective gas function after the production of food packages. Compact design is made possible to reach high output without taking up a lot of space.

**Requirements**

- **Vacuum and gas**
  - Automatic feeding and rest foil collector device
  - Seal foil spool hygienically protected during loading
  - Tray presence check on loading plane with automatic
  - Mobile unit with rollers
  - Made of stainless steel AISI 304 and Peraluman
  - Easy and fast change of sealing tools
  - Sealing tools in single and double versions

**Technical data**

- **Chamber depth**
  - 60 mm (standard)
  - 100 mm on inquiry
- **Power**
  - 3,2 kW
- **Incoming pressure**
  - 5 bar
- **Generation capacity**
  - 100 m³/h
- **Vacuum pump**
  - 420 kg
- **External dimensions**
  - 2,50 x 0,99 x 1,66 m
- **Weight**
  - 410 kg
- **Rhythm**
  - 5-6 per minute

**Options**

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

**System**

- Automatic feeding and rest foil collector device
- System for pre printed and cut foil
- Automatic output spooler at the end of machine

**Description**

Automatic feeding and rest foil collector device
- Tray presence check on loading plane with automatic
- Mobile unit with rollers
- Made of stainless steel AISI 304 and Peraluman
- Easy and fast change of sealing tools
- Sealing tools in single and double versions

**Design**

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

**Control**

- Automatic feeding and rest foil collector device
- System for pre printed and cut foil
- Automatic output spooler at the end of machine

**System**

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- System for pre printed and cut foil
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**Requirements**

- Automatic feeding and rest foil collector device
- Vacuum and gas function
- Made of stainless steel AISI 304 and Peraluman
- Easy and fast change of sealing tools
- Sealing tools in single and double versions

**Technical data**

- **Chamber depth**
  - 60 mm (standard)
  - 100 mm on inquiry
- **Power**
  - 3,9 kW
- **Incoming pressure**
  - 5 bar
- **Generation capacity**
  - 100 m³/h
- **Vacuum pump**
  - 420 kg
- **External dimensions**
  - 2,50 x 0,99 x 1,66 m
- **Weight**
  - 410 kg
- **Rhythm**
  - 5-6 per minute

**Options**

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

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- System for pre printed and cut foil
- Automatic output spooler at the end of machine

**Requirements**

- Automatic feeding and rest foil collector device
- Vacuum and gas function
- Made of stainless steel AISI 304 and Peraluman
- Easy and fast change of sealing tools
- Sealing tools in single and double versions

**Technical data**

- **Chamber depth**
  - 60 mm (standard)
  - 100 mm on inquiry
- **Power**
  - 3,7 kW
- **Incoming pressure**
  - 5 bar
- **Generation capacity**
  - 200 litres per minute
- **Vacuum pump**
  - 420 kg
- **External dimensions**
  - 2,50 x 0,99 x 1,66 m
- **Weight**
  - 410 kg
- **Rhythm**
  - 5-6 per minute

**Options**

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

**System**

- Automatic feeding and rest foil collector device
- System for pre printed and cut foil
- Automatic output spooler at the end of machine

**Requirements**

- Automatic feeding and rest foil collector device
- Vacuum and gas function
- Made of stainless steel AISI 304 and Peraluman
- Easy and fast change of sealing tools
- Sealing tools in single and double versions

**Technical data**

- **Chamber depth**
  - 60 mm (standard)
  - 100 mm on inquiry
- **Power**
  - 3,9 kW
- **Incoming pressure**
  - 5 bar
- **Generation capacity**
  - 200 litres per minute
- **Vacuum pump**
  - 420 kg
- **External dimensions**
  - 2,50 x 0,99 x 1,66 m
- **Weight**
  - 410 kg
- **Rhythm**
  - 5-6 per minute
TYPE BS 47 COMPACT

**Technical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational height</td>
<td>400 x 285 mm</td>
</tr>
<tr>
<td>Vacuum height</td>
<td>200 litres</td>
</tr>
<tr>
<td>Compressed air consumption at 5 bar</td>
<td>3 x 230/400V, 50Hz</td>
</tr>
<tr>
<td>External dimensions</td>
<td>1.8 x 1.5 m</td>
</tr>
<tr>
<td>Power</td>
<td>3.7 kW</td>
</tr>
<tr>
<td>Weight</td>
<td>136 kg</td>
</tr>
<tr>
<td>Power supply</td>
<td>3 x 230/400V, 50Hz</td>
</tr>
<tr>
<td>Working cycle</td>
<td>5-6 per minute</td>
</tr>
<tr>
<td>Max. height of tray</td>
<td>100 mm</td>
</tr>
</tbody>
</table>

**Description**

- Automatic feeding and rest foil collector device
- Tray presence check on loading plane with automatic positioning
- Automatic temperature regulation of the sealing plate
- Sealing tools in single, double and triple versions
- Machine operated by Siemens touch screen panel and PLC
- Automatic temperature regulation of the seaing plate pressure, and its automatic adjustment
- Security valve to make possible use of gas with high oxygen percentage (O2 □> 21%)
- Safety valve to make possible use of gas with high oxygen percentage (O2 □> 21%)
- Different programs and tray depths to choose from
- Protection degree IP55
- Connection: 3 x 230/400V, 50Hz
- For working with the machine compressed air is needed. These minimum features of the compressed air generator have to be fulfilled:
  - Generation capacity: 200 litres per minute
  - Storage air tank: 50 litres
  - Compressed air consumption at 5 bar: approx. 30 litres per cycle

**Requirements**

- For working with the machine compressed air is needed. These minimum features of the compressed air generator have to be fulfilled:
  - 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**

Automatic vacuum thermo-sealing machine with protective gas function

- Standard depth of the vacuum chamber: 60 mm are possible on inquiry.

Technical data:

- Thermo-sealing:
  - Made of stainless steel AISI 304 and Peraluman
  - Easy and fast change of sealing tools

Design:

- Automatic feeding and rest foil collector device
- Working cycle: approx. 10 litres per cycle
- Requirement: 3,2 kW
- Power: 3 x 230/400V, 50Hz
- Vacuum pump: 100 m3/h
- Weight: 90 mm
- External dimensions: 1,75 x 0,74 x 1,45 m
- Max. height of tray: 400 x 285 mm
- Working cycle: 90 mm
- Maximum seal: 400 x 285 mm
- Seal foil spool hygienically protected during loading
- Protection degree IP55
- Sealing tools in single, double and triple versions
- Stop start of the sealing process
- System for pre-printed seal foils (inclusive light barrier and control extension)
- Protection degree IP55
- Easy and fast change of sealing tools
- Sealing tools in single, double and triple versions
- Options:
  - aluminium
  - MAP function

**Technical data:**

- Max. height of tray: 100 mm
- Working cycle: 100 mm
- Approx. 30 litres per cycle
- Power: 3,2 kW
- Connection: 3 x 230/400V, 50Hz
- Vacuum pump: 100 m3/h
- Weight: 2,50 x 0,99 x 1,66 m
- Max. height of tray: 400 x 285 mm
- Maximum seal: 400 x 285 mm
- Tray presence check on loading plane with automatic
- Protection degree IP55
- Sealing tools in single, double and triple versions
- Security valve to make possible use of gas with high pressure
- Double gas inlet (allocation programmable) · Automatic output queuing system at the exit of machine
- Options:
  - aluminium
  - MAP function
  - Stop start of the sealing process
  - System for pre-printed seal foils (inclusive light barrier and control extension)

**Requirements:**

- Working cycle: 10-12 per minute
- Max. height of tray: 400 x 285 mm
- Maximum seal: 400 x 285 mm
- Stop start of the sealing process
- System for pre-printed seal foils (inclusive light barrier and control extension)
- Protection degree IP55
- Sealing tools in single, double and triple versions
Our automatic tray sealing machine type BS 35 is equipped with vacuum and gas controlled by a digital vacuum gauge. In addition, the machine is equipped with a security valve to make possible use of gas with high oxygen percentage (O2 □ > 21%) which is controlled by PLC. The machine is made of stainless steel AISI 304 and Peraluman. Different programs and tray depths can be set and stored through the user-friendly touch screen. Pre-printed foil is automatically recognized and directly positioned. The machine is compact and easy to handle.

### Technical data:

- **Type:** BS 35
- **Power:** 1,56 kW
- **Connection:** 3 x 230/400V, 50Hz
- **Weight:** 410 kg
- **External dimensions:** 2,50 x 0,99 x 1,66 m
- **Chamber depth:** 100 mm
- **Max. height of tray:** 400 x 285 mm
- **Maximum seal and passage start of the sealing process:** approx. 30 litres per cycle
- **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

### Options

- Automatic feeding and rest foil collector device
- Seal foil spool hygienically protected during loading
- Different programs and tray depths
- Automatic temperature regulation of the sealing plate
- Made of stainless steel AISI 304 and Peraluman
- Easy and fast change of sealing tools
- Pre-printed foil is automatically recognized and directly positioned.

### 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. 100 mm 5-6 per minute

### Description

- Thermo-sealing
  - Mobile unit with rollers
  - Sealing tools in single and double versions
  - Automatic feeding and rest foil collector device
- Control
  - Oxygen percentage (O2 □ > 21%) which is controlled by PLC
  - Different programs and tray depths
- Connection
  - 100 m³/h
- Chamber depth: 90 mm
- Working cycle: 90 mm
- Double gas inlet (allocation programmable)
### Possibilities for tools and trays

<table>
<thead>
<tr>
<th>Description</th>
<th>Rectangular trays</th>
<th>Circular trays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single use tool</td>
<td>Single use tool</td>
<td>Single use tool</td>
</tr>
<tr>
<td>Rectangular trays</td>
<td>Rectangular trays</td>
<td>Rectangular trays</td>
</tr>
<tr>
<td>BS 52</td>
<td>BS 52</td>
<td>BS 52</td>
</tr>
<tr>
<td>BS 47 Compact</td>
<td>BS 47</td>
<td>BS 47</td>
</tr>
<tr>
<td>Triple use tool</td>
<td>Triple use tool</td>
<td>Triple use tool</td>
</tr>
<tr>
<td>Double use tool</td>
<td>Double use tool</td>
<td>Double use tool</td>
</tr>
</tbody>
</table>

### General Product Information

**BS Packaging Systems**

The seal foil spool is hygienically protected during loading and passage. Quick cleaning of the machine according to high-level hygienic directions.

Clear construction and design, stainless parts and splash-proof components allow an easy and tailored to special requirements. It is possible to change sealing tools easily and fast, so that it is sure that pre-printed films are placed in the right position.

The rest foil is rewound 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.

Constant sealing temperature and sealing pressure guarantee a safe sealing of the trays.

On the loading plane the tray presence is checked and the sealing process is started.

The tray sealer reaches up to 12 working cycles per minute – depending on the particular model.

Output

Inside of the machines are easy accessible because it is very simple to open the side coverings.

Aluminium. Because of the serviceable design the components are visible and accessible. The construction of the machines is very robust – made of stainless steel AISI 304 and Peraluman.

Design

The temperature of the sealing plate is preset and automatically regulated by a thermostat.

Control

Exactly important parameters. The intuitive control panel is clearly arranged and easy-to-operate.

### Dimensions

**BS 52**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rectangular trays</th>
<th>Circular trays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine size</td>
<td>280 x 190 x 100</td>
<td>400 x 285 x 100</td>
</tr>
<tr>
<td>Double size</td>
<td>130 Ø x 100</td>
<td>470 mm</td>
</tr>
<tr>
<td>Triple size</td>
<td>130 Ø x 100</td>
<td>470 mm</td>
</tr>
</tbody>
</table>

**BS 57**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rectangular trays</th>
<th>Circular trays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine size</td>
<td>280 x 210 x 90</td>
<td>400 x 285 x 100</td>
</tr>
<tr>
<td>Double size</td>
<td>130 Ø x 100</td>
<td>470 mm</td>
</tr>
<tr>
<td>Triple size</td>
<td>130 Ø x 100</td>
<td>470 mm</td>
</tr>
</tbody>
</table>

**BS 90**

<table>
<thead>
<tr>
<th>Description</th>
<th>Rectangular trays</th>
<th>Circular trays</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Triple size</td>
<td>130 Ø x 100</td>
<td>470 mm</td>
</tr>
</tbody>
</table>

### Notes

- **Standard depth of the vacuum chamber. 60 mm are possible on inquiry.**
- **Unit of measurement: mm**
- **Width x Depth x Height**
- **POSSIBLE TOOLS AND TRAYS**
- **Cycle**
- **400 x 285 mm**
- **5-6 per minute**
- **Maximum diameter of the foil**
- **220 Ø mm**
- **Maximum width of the foil**
- **350 mm**
- **Maximum height of the tray**
- **280 x 210 mm**
- **Maximum seal**
- **400 x 285 mm**
- **Cycle**
- **10-12 per minute**
- **Maximum diameter of the foil**
- **220 Ø mm**
- **520 mm**
- **Maximum width of the foil**
- **100 mm**
- **Maximum height of the tray**
- **100 mm**
- **Maximum seal**
- **400 x 285 mm**
In 1959, Norbert Boss founded Boss Verpackungsmaschinen in Güstrow and later took over the company Gustav Müller & Co. KG in 1995. Since then the company has been producing manual sealing machines for the take-away business. Using up-to-date technology and by using tailored to special requirements. It is possible to change sealing tools easily and fast, so that it is sure that pre-printed films are placed in the right position. The rest foil is rewind on to a collector device. As an option it is possible to use a sensor to make quick cleaning of the machine according to high-level hygienic directions. Hygiene is exactly important parameters. The intuitive control panel is clearly arranged and easy-to-operate.

Sealing tools are customer-specific. It is possible to manufacture custom-build tools on request. Because of the serviceable design the components are visible and accessible. The construction of the machines is very robust – made of stainless steel AISI 304 and Peraluman. The temperature of the sealing plate is preset and automatically regulated by a thermostat. The control is based on microprocessor technology. The machine works automatically. The automatic tray feeding leads to a high output together with a low manpower requirement. Quick readiness to use allows short reaction time. On the loading plane the tray presence is checked and the sealing process is started exactly. After the sealing process the sealing takes place. The seal foil spool is hygienically protected during loading and passage. The rest foil is rewind on to a collector device. As an option it is possible to use a sensor to make quick cleaning of the machine according to high-level hygienic directions. Hygiene is exactly important parameters. The intuitive control panel is clearly arranged and easy-to-operate.
**Standard depth of the vacuum chamber.** 60 mm are possible on inquiry.

**Ø Diameter of the tray**

---

**Unit of measurement:** mm

<table>
<thead>
<tr>
<th><strong>Width x Depth x Height</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>130 Ø x 100</td>
</tr>
<tr>
<td>130 Ø x 100</td>
</tr>
<tr>
<td>148 x 210 x 90</td>
</tr>
<tr>
<td>190 Ø x 100</td>
</tr>
<tr>
<td>210 Ø x 90</td>
</tr>
<tr>
<td>280 Ø x 100</td>
</tr>
<tr>
<td>280 x 190 x 100</td>
</tr>
<tr>
<td>280 x 190 x 100</td>
</tr>
<tr>
<td>280 Ø x 100</td>
</tr>
<tr>
<td>280 x 190 x 100</td>
</tr>
<tr>
<td>400 x 285 x 100</td>
</tr>
<tr>
<td>400 x 285 x 100</td>
</tr>
<tr>
<td>280 x 190 x 100</td>
</tr>
</tbody>
</table>

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**POSSIBLE TOOLS AND TRAYS**

- **Single use tool**
  - BS 47
  - Rectangular trays
  - Circular trays
  - BS 47 COMPACT
  - Rectangular trays
  - Circular trays
  - BS 35
- **Double use tool**
  - 2-3 per minute
  - Maximum diameter of the foil: 470 mm
  - Maximum width of the foil: 520 mm
  - Maximum height of the tray: 100 mm
  - Maximum seal: 400 x 285 mm
  - Cycle: 5-6 per minute
  - Maximum diameter of the foil: 220 Ø mm
  - Maximum width of the foil: 920 mm
  - Maximum height of the tray: 100* mm
  - Maximum seal: 400 x 285 mm
- **Triple use tool**
  - 2-3 per minute
  - Maximum diameter of the foil: 470 mm
  - Maximum width of the foil: 520 mm
  - Maximum height of the tray: 100 mm
  - Maximum seal: 400 x 285 mm

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**Output**

- The key water reaches an 1°C cooling water per minute - depending on the particular model.
- On the loading plane the machine is closed for the sealing process, is heated automatically. The automatically stop loading leads to a high output together with a low manpower requirement.
- Good cleaning can be done after a short waiting time.

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**Thermo-sealing**

Constant sealing temperature and sealing pressure guarantee a safe sealing of the trays.

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**Sealing tool**

We offer a variety of standard sealing tools and are able to manufacture custom-build tools tailored to special requirements. It’s possible to change sealing tools quickly and accurately, so that it is no problem to work with different requirements.

---

**Hygiene**

Clear construction and design, maintenance purely and hygienically convenient allow an easy and smooth cleaning of the machine according to high hygienic standards.

---

**Contact**

Our factory is equipped with the latest, most up-to-date computer technology to ensure the highest quality standards. For this reason, our customers can benefit from a high level of efficiency and service.

---

**Design**

The construction of the machines is unstructured - made of stainless steel AISI 304 and Passivatierungs- aluminium. Thanks to the stainless steel the components are stain and rust-proof. The result is a machine that is easy to clean but also easy to open in case of any problems.

---

**Output**

The key water reaches an 1°C cooling water per minute - depending on the particular model.

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