

GERNEP

MADE IN GERMANY

PRECISION IN LABELLING

ROLLFED

Wrap-around labelling from the label roll with hot melt for PET bottles and other packaging made of glass and plastic

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All-round perfect – Labelling from the roll with hot melt.



Fully automatic labelling machine for wrap-around labelling from the label roll with hot melt for PET bottles and other packaging made of glass and plastic.

Performance range:

Dependant on the type of machine and the packaging
3.000 - 30.000 Behälter/h

These ROLLFED labelling machines with innovative, hot glue gluing technology for wrap-around labelling of containers with a great variety of shapes sets standards for uncompromising, uncomplicated technology. Together with the price benefit of film labels from the roll, reduced glue consumption, and minimised cleaning times due to the contact-free start of label gluing, the GERNEP ROLLFED is the economical and efficient answer to the increasing labelling demands of the food and beverage industry. Clear and easily reachable controls make problem-free work possible. Changeover and cleaning times are reduced to a minimum.



Advantages of the GERNEP ROLLFED

- compact, user-friendly machine design
- Innovativ label gluing (patented)
Start of label gluing: Non-contact, hot-melt glue application via nozzles directly on the container.
End of label gluing: Continuous glue strip on the label on the vacuum drum
- Minimum glue consumption and shorter cleaning times through closed gluing system
- Precise label positioning through forced container guidance between container plate and the self-centring punch
- Reliable and easy operation through separate electronic control units for the machine, labelling unit, and gluing unit
- Shortest conversion times through pre-programming of different containers
- Modular construction. Economical conversion possible, even after years

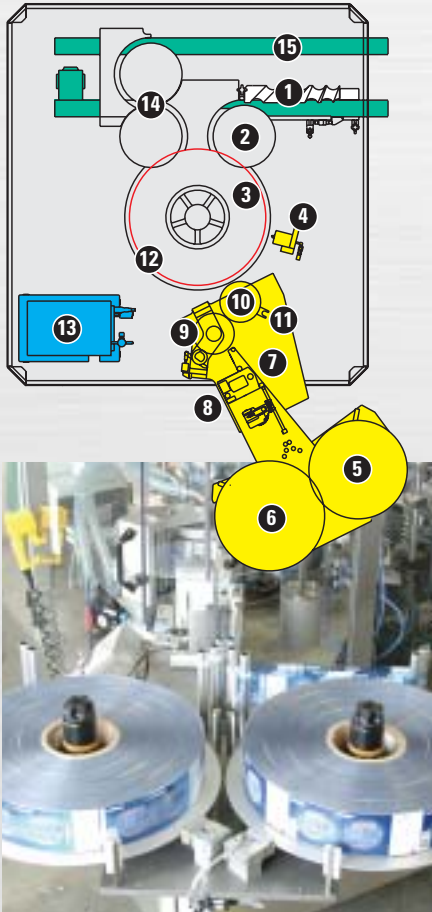


Our Configuration Possibilities:

The GERNEP ROLLFED is perfect for the efficient labelling of round, oval, or square containers made of glass, metal, and is designed especially for PET bottles. By using economical film labels of all types up to no-label-look labels with counter printing, we use the GERNEP ROLLFED to offer a labelling machine to the food and beverage industry and the non-food industry, which can handle all demands universally.

How it works – reliable and precise:

The GERNEP ROLLFED is designed as a compact wrap-around model. It automatically adapts to the container feed and discharge.



- Incoming bottles are divided in the infeed screw ①.
- The in-feed star ② passes the bottle to the bottle table ③. The bottles are fixed in position between the plate and self-centring punch and mechanically rolled into the labelling position.
- Incoming bottles are selectively sprayed with hot glue through the heated nozzles of the gluing station ④ with no contact.
- From the powered unrolling station for the label rolls ⑤ (spare roll ⑥) via many spring-loaded tension rollers, the label is guided to electronic scanning. The spring-loaded tension rollers ensure continuous removal.
- Electronic sensor ⑦ is used to position the label accurately on the cutting drum by means of a servo motor ⑧.
- Finely ground blades on the cutting drum ⑨ ensure exact separation of the labels.
- After cutting, they are passed to the vacuum transfer drum ⑩. It transfers the label directly to the glue zone on the bottle.
- The end of label gluing takes place now on the vacuum drum ⑪ by means of a narrow, continuous vertical strip of glue.
- The end of the label is pressed on in the brush section so that it is immovable ⑫.
- The heating of the glue and the perfect proportioning takes place in a separate glue management unit ⑬ with its own electronic control unit.
- The labelled bottles are transferred to the transport belt ⑮ through the out-feed star ⑭.

Fully automatically and accurately, the GERNEP ROLLFED labelling unit guides the labels by means of a servo drive to the exact cutting position, which is positively identified by means of colour contrast sensors. Thanks to the control electronics for optimum glue dosing and the possibility of pre-programming different bottle designs, this labelling unit is designed for the easiest possible operation.

Perfect ROLLFED Wrap-Around Labelling



Start of label gluing:

Through non-contact glue application via heated nozzles directly on the container.

End of label gluing:

Through a continuous strip of glue on the label that is already attached to the bottle.



Exact cut

The label is fixed in position on the cutting drum by means of low pressure and then transferred to a vacuum drum for gluing.



Operation – Easy and Logical

We consciously kept the handling of the ROLLFED as simple as possible. Instead of using complicated electronic synchronisation, different label lengths are set in seconds using a counter.



The ROLLFED Glue Management System

The ROLLFED glue management system consists of an independent unit that is integrated in the labelling machine with its own electronic control unit. The functions such as hot zones, glue temperature, and glue dosing are simply entered using selector keys. The status of the device is shown reliably using illuminated displays.



Non-contact gluing at first part of label

The GERNEP ROLLFED fastens the label to the container only at the start and end of the label with hot glue and that way guarantees economical glue consumption with a firmly seated label. Through the innovative gluing, the glue for the start of the label is applied directly to the container that is being labelled. The vacuum drum is only used for gluing the end of the label. The end of the label is glued only when the beginning of label is already fixed onto the hot melt zone from the bottle.



The Control Unit - Convenient and Reliable

To simplify operating the machine, the control unit of the GERNEP ROLLFED was split into the machine control unit, labelling unit control unit, and glue management control unit. That way, the operational reliability is increased considerably compared to having one general control unit. Only brand name components that have been tried and proven umpteen thousand times are used in the electronics.

- Table covers and bottle tables are maintenance free.
- Different container formats are pre-programmed and can be called individually in the machine menu.
- The menu navigation is self-explanatory and is available in many different languages.
- Thanks to the extensive safety equipment and the maintenance and cleaning work that has been reduced to a minimum, the GERNEP ROLLFED represents the most modern state of the art in labelling.

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Special Attachments:

Through our flexible modular system, we can adapt the ROLLFED to different requirements or retrofit it afterwards in a cost-conscious way.

That way, you are ready for all future labelling requirements with a ROLLFED labelling machine. We would be happy to advise you on the possibilities that this labelling machine provides.

Dating:

With our variable inkjet or laser printers, we can put expiry dates, price or contents information, as well as test numbers or code number on the label.

Label Checking:

With this electronic label checking station that can be integrated in the machine, a pusher can be controlled at the outlet that sorts out incorrectly glued bottles.

More than 30 Years of Tailor-Made Labelling Machines – Made in Germany

Just like Germany is dedicated to the art of brewing, we at GERNEP have been dedicated to our claim of "precision machine construction Made in Germany" for more than 30 years. Thanks to the solid know-how of Helmut Gerstberger, Berthold Neppel, and in the second generation Martin Hammerschmid in management, we maintain closeness to the customer that makes decisions possible in the fastest possible way and which makes it possible to complete projects economically and responsibly.

Consulting

Even before an order, we provide advice on the best and most economical solution, starting with optimum processing materials and practical label formats, right up to advanced labelling possibilities provided by our labelling machines.

Construction

Our labelling machines are adapted by our designers on the most modern CAD systems to meet the specific requirements. Through ongoing new developments, our machines are always state of the art.

Installation / Repair Service

With our worldwide customer service network, we offer reliable local support after the machine is put into operation.

Our technical service staff can be deployed worldwide in the shortest possible time if need be. We keep the maintenance and repair work to a minimum through our online service. That way, we simplify troubleshooting and repairs in a cost-saving way.

Project Management

Our practical development team will find the optimum solution for any planning requirement. We provide quick and uncomplicated consulting onsite and develop your project plans on the most modern CAD systems.

Made in Germany

As an accompaniment to our combined series and individual production on modern CNC machining centres, all work steps are documented for later conversions or expansions. Ongoing quality control and extensive trial runs before shipping the machine guarantee fast installation onsite.

Spare Parts Service

Our extensive spare parts service ensures fast availability in the event of repairs and conversions. Our well-stocked warehouse and flexible production guarantee an uninterrupted supply of all spare parts and fittings worldwide, even after years.

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Subject to technical changes

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