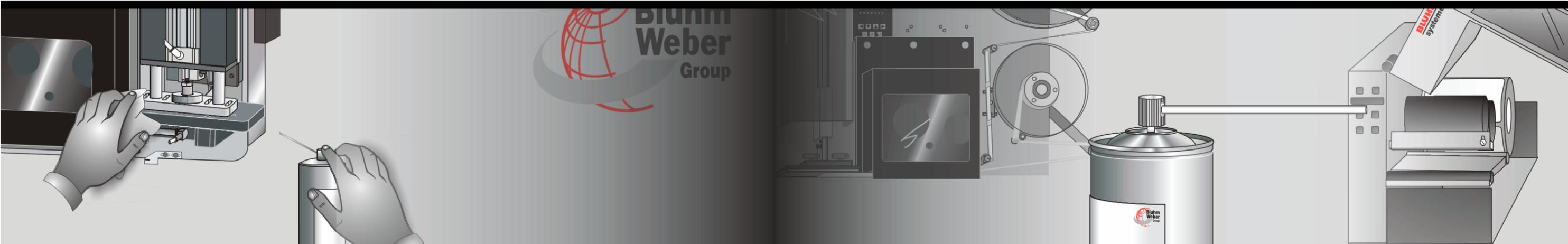




## User Guide for Cleaning, Care and Maintenance of

# Printers and Labelling Systems

Part no. of this Documentation 22800625



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## General Directions

In order to maintain the serviceability and durability of your system on a long term, we have arranged a special cleaning set for all thermal transfer and direct thermal print modules as well as for desktop printers.

Please use only the cleaning supplies mentioned here!

**Weber Marking Systems GmbH is not liable for damages resulting from the use of other cleaning supplies on printers or labellers.**

The following provides informations on the scope of application as well as on handling of all cleaning supplies contained in the cleaning set 21800981.

**Please follow closely all security advices without exception.**

## Cleaning Intervals

The cleaning frequency conforms strongly to the system utilisation (rate of application and/or amount of printing, usage on 3 shift operation...) and environmental conditions (temperature, exposure to dust and dirt particles...). Please take the recommendations of the manufacturer in account. In any case, we recommend cleaning after each roll change at the latest (labels and/or ribbon). Frequent cleaning does not damage the system if performed correctly; instead, it increases the availability of the device as well as the quality of the labelling.

## Security Advice

Before you begin with maintenance and cleaning procedures, please notice the following security advices. All indications related to the subject „maintenance“, „cleaning“,... which you might gather from the provided system manuals, must be taken into account. The following advices are to be considered:

Regarding all printers and labelling systems, please note:



### **ELECTRICAL HAZARD!**

There is danger of life by direct or indirect contact live parts. **Disconnect the power from the system before you perform the following procedures!**

Regarding labelling systems with compressed air supply, please note:



### **CAUTION!**

**Disconnect the compressed air service from the system before start the maintenance!**

Regarding spray cans contained in cleaning set (21800981), please note:



Pressurised Containers. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from ignition sources. – Do not smoke.

Always keep spray cans out of the reach of children.

Regarding spray cans with solvents contained in cleaning set (21800981), please note:



Contents may irritate to eyes. Exhalation may cause sleepiness and drowsiness. Use only in well ventilated areas. Avoid contact with eyes and mucous membranes. In case of contact with eyes, immediately wash off with water and consult a doctor.

## **Cleaning Instructions for Electrical Components**

Whenever you moist-clean electrical devices or its components (printhead, sensors), you must let the cleaned item completely dry.

If humidity reaches the electronical components, this might lead to severe damage!

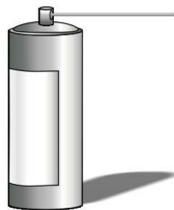
In those cases, a drying period of many days might be considered before connecting the device to a power supply.

## **Cleaning Advice**

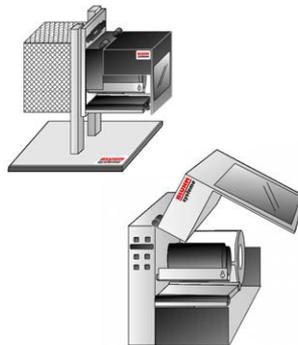
### **Cleaning Enclosure and Transparent Areas**



21800978



21800977  
21800771  
21800768



In order to clean the enclosure, you should first loosen all areas from raw protection; employ a vacuum cleaner or compressed air spray (21800768) for this task.

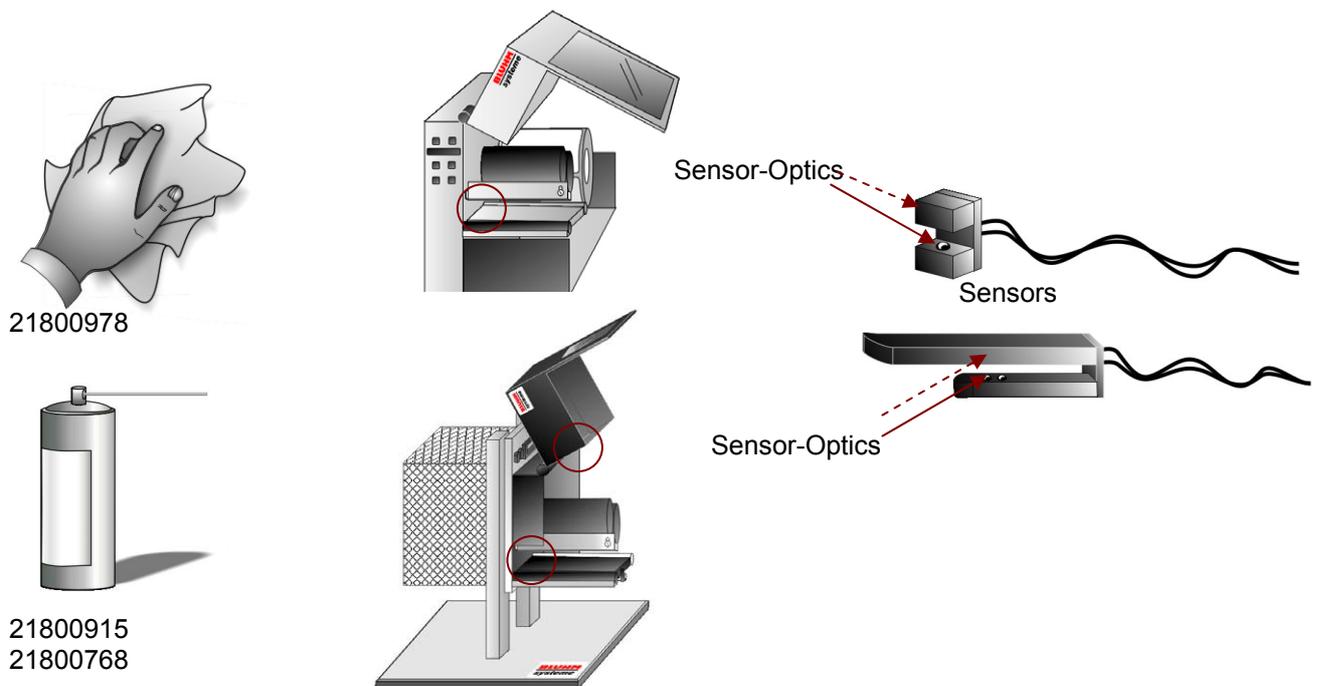
Spray some label remover (21800771) onto a piece of cleaning cloth (21800978) and wipe off thoroughly all surfaces.

On polycarbonate and/or Plexiglas areas, a humid cleaning cloth is generally sufficient; cloth should previously be wrung out well so that moisture cannot reach sensitive electrical components. Roller-solvent (21800977) or label remover (21800771) are also suitable for cleaning tasks. Here it is also important to only apply the spray onto a cleaning cloth.

## Cleaning Photocells and Sensors

Thermal printers feature a large amount of sensors with diverse functions; hence, they are installed at different parts of the device. Each device features a label sensor for detecting label gaps. Ribbon sensors and black mark sensors often correspond to regular standards and lie also in the area between paper feed and peel bar.

Door-sensors are commonly implemented on print modules for monitoring the cover of the enclosure. On the illustrations below, typical mounting locations are marked with a circle. (Otherwise consult the documentation for help).



Sensors often consist of two opposite facing optical mechanisms. One part emits an infrared light, the other part receives it. For the function of the optical areas on electrical components to remain unaffected, these should never come in contact with solvents!

For clean-up, open the Printhead of disconnected printer or desktop printer and remove ribbon and labels. Use only compressed air spray for cleaning sensor optics.

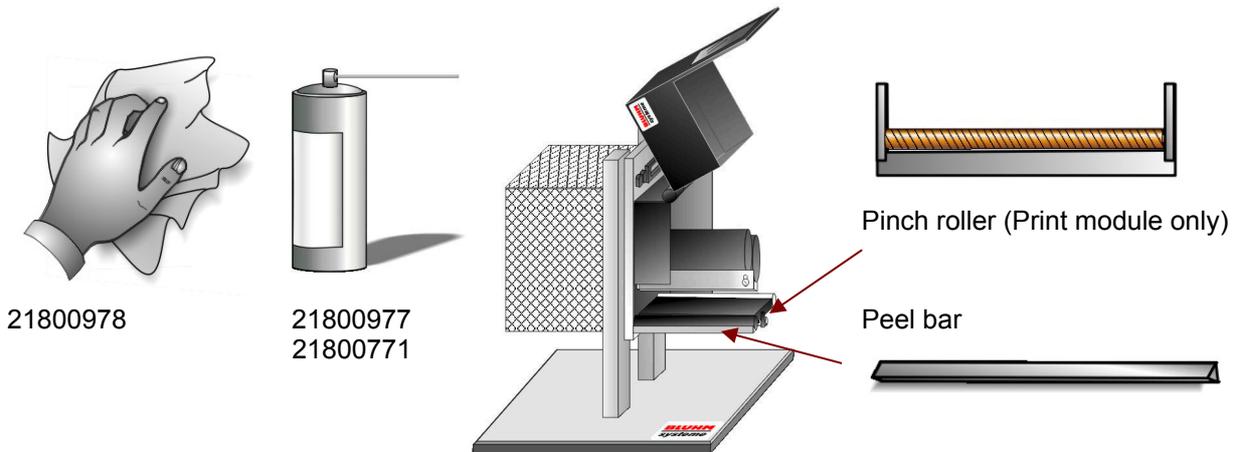


**CAUTION!** Do not hold the spray can overarm, or else liquid Co2 might escape, which leads to icing.

Label and adhesive residuals in sensor enclosure must be removed with extreme caution. Spray some alcohol on a cleaning cloth (21800978) and wipe enclosure off, avoid contact with sensor optics.

Wait after cleaning with alcohol until sensors are completely dry before you insert new material and/or switch device on.

**Cleaning Mechanical Components**

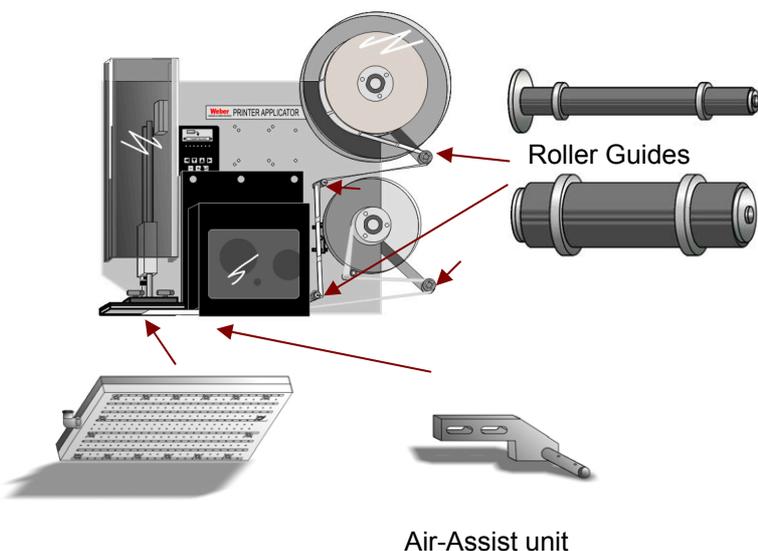


Open Printhead of disconnected print module or desktop printer and remove ribbon and labels. To remove adhesive accumulation, wipe peel bar off with cleaning cloth (21800978) after having applied spray with label remover.

You should never remove persistent accumulations such as e.g. label residuals from peel bar with the aid of blades, cutters or similar objects. The risk of slipping off and damaging the Platen roller lying immediately behind is too high. Spray affected areas thoroughly with label remover. The application time on \*PE-labels is significantly longer than on paper labels and may take between 1 and 10 minutes. Afterwards, remove label residuals and wipe off with a cleaning cloth.

Only print modules feature a pinch roller (anvil rod), which can be popped out or completely removed, depending on the print module type. With regard to clean-up, the same recommendations as for the peel bar will be followed. Due to strongly abraded surface, pieces of cloth might remain, which must be removed.

On labelling systems, there are by far more components that should be cleaned. It concerns all parts which enter directly in contact with label material.



Check roller guides, tamp pad as well as air-assist unit for possible adhesive accumulations and label residuals. Remove contaminations in the same manner as previously described.

Please use only label remover (21800771) and cleaning cloths (21800978).

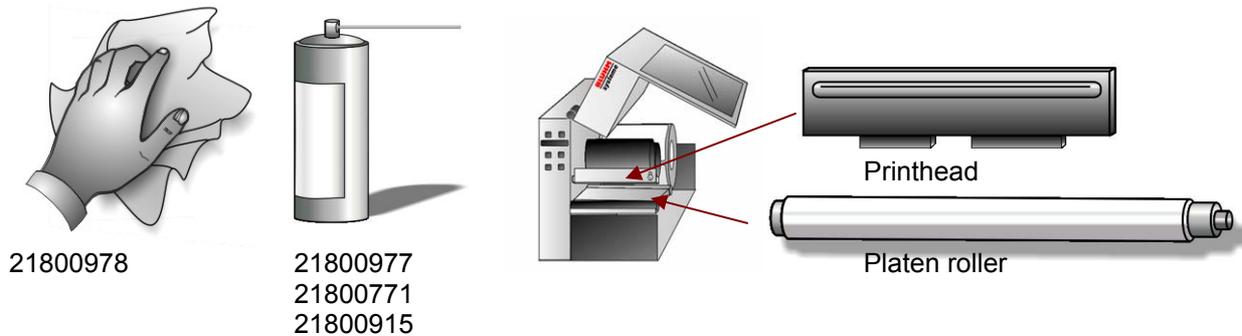
Tamp pad

Air-Assist unit

\* PE = polyethylene

## Cleaning Printhead, Driver Roller or Platen Roller

Irregular print quality, continuous voids in the printout or a blurry print indicate occasionally contamination buildup on Printhead, especially when printing quality increasingly deteriorates over a certain amount of labels.



### Cleaning Printhead

The Printhead is one of the printer's sensible components. It is an abrasive part, comparable to the brakes in a vehicle. A gentle treatment and regular cleaning of printer head can considerably prolong its durability.

Fig. 1-3 shows enlargements of three sections of different Printheads. A brand new Printhead is illustrated on the left. In the middle you will see a Printhead which has already yielded a running activity of over 25 km in thermal transfer operation and in the process has been regularly cleaned and treated gently. The third one, on the other hand, has printed much less labels but has not been handled properly (irregular, poor cleaning).

Open Printhead of disconnected printer and remove ribbon and labels. For cleaning of Printhead, please use spray can with alcohol (21800915) and apply it onto a clean (new) cloth. Rub repeatedly up and down over thermal elements (dark line). Eventually, persistent residuals should be removed with lap sheet (see page 9).



**WARNING! Never** use carving materials or sharp and/or pointy metallic objects to clean up Printhead.

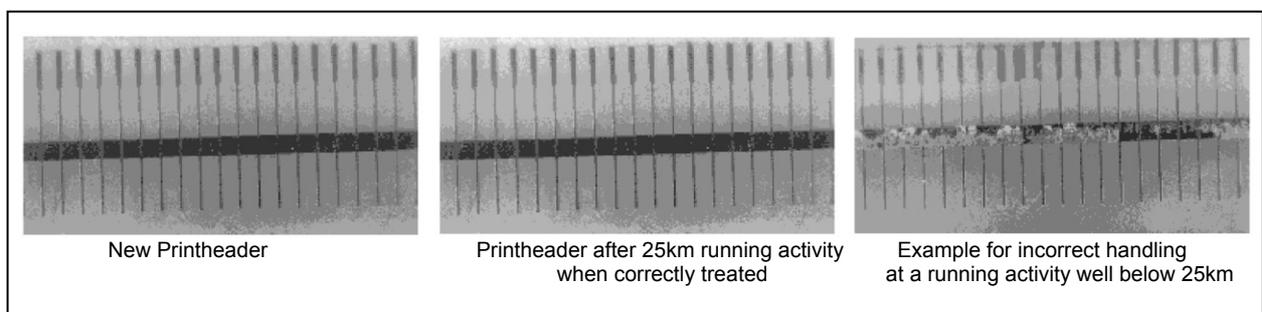


Fig.1-3: Printheads-enlargements

## **Cleaning Platen Roller**

Cleaning of Platen roller should be performed at the very end of cleaning routines. In this way it is assured, that the roller conclusively be handled only with the rubber treating contents of the special roller cleaner (21800977).

If labels have remained strapped around roller, these must be previously removed. Apply spray with label remover thoroughly on the roller. Application time on \*PE-labels is significantly longer than on paper labels and may take between 1 and 10 minutes. Try then to unwrap labels from roller. **Never** use blades, cutters or similar objects for this task.

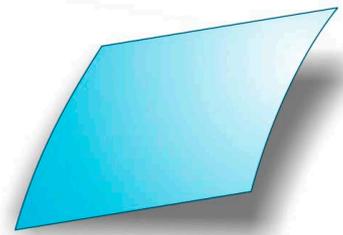
For cleaning of Platen roller, apply some roller-solvent onto a cleaning cloth and rub off all sides of roller with it. The roller can be rotated by hand when switched-off. Wait for the roller to dry before mounting the label liner.

\* PE = polyethylene

## **Cleaning Printhead (II) with lap sheet**

Using lap sheets prolongs the durability of the Printhead, reduces downtime and cuts repair costs. Use lap sheet only when clean-up of Printhead and Platen roller (see page 8) has not lead to the desired results. This is essential for the efficient usage of the lap sheet.

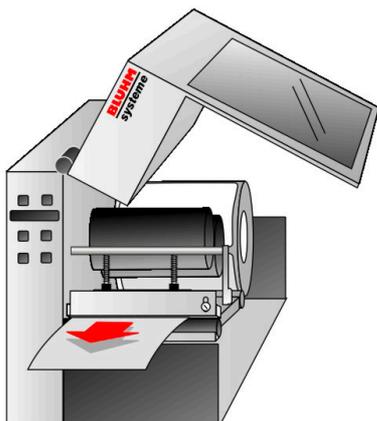
The surface of the sheet is provided with a special coating which removes contamination buildup particles without damaging the Printhead in the process.



Lap sheet  
21800921

### **Use of lap sheet:**

Open Printhead of disconnected printer and remove ribbon and labels. Clean Printhead as described in detail on page 8.

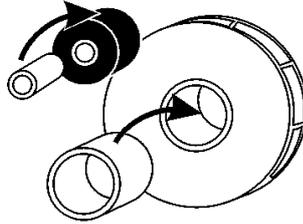


Place the lap sheet (21800921) into the printer, so that the smooth (bright) side faces down, and matte side faces upwards towards Printhead (if foil is too broad, please cut to printer width). Close Printhead. The sheet should now stick out circa 2 cm wide. Pull sheet (by hand) slowly out of printer completely. Clean the Printhead again as described on page 8, with alcohol and a cleaning cloth. Lay the ribbon and/or labels again inside the print module. Print now a test label and check for the quality of the printing.

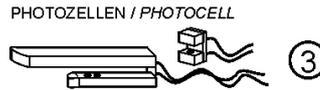
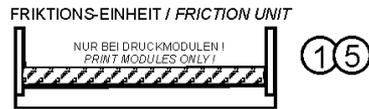
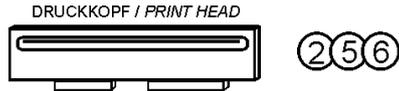
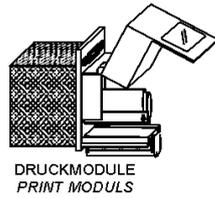
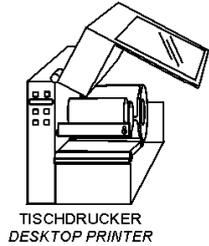
 Only one appliance with the lap sheet (21800921) is sufficient for removing accumulations on the Printhead completely. Sheet can be used 10 times in total.

**REINIGUNGSHINWEISE / CLEANING NOTES**

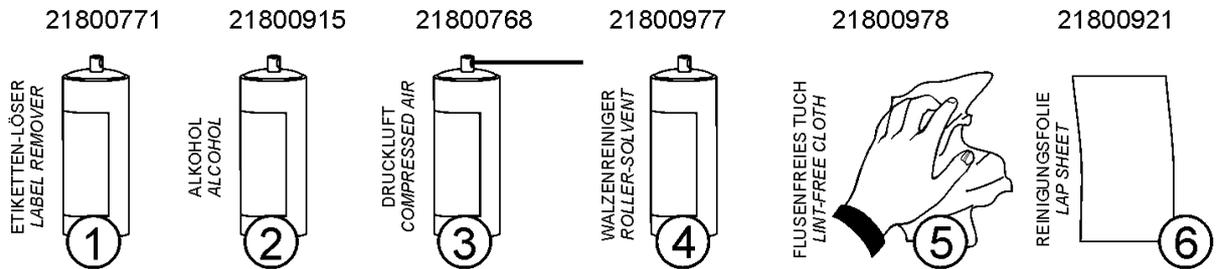
**REINIGUNG NACH JEDEM ROLLENWECHSEL !**



**CLEAN AFTER EACH ROLL CHANGE !**



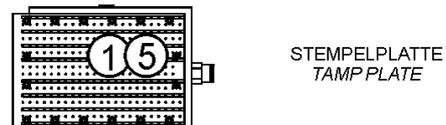
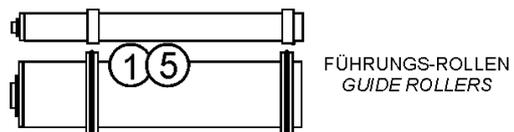
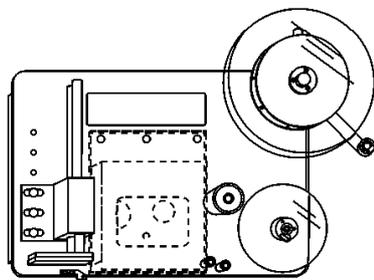
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