Operator's Manual

Vacuum-Belt Applicator 5314 / 5316

Made in Germany
Operator's Manual
for the following products

<table>
<thead>
<tr>
<th>Family</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum-Belt Applicator</td>
<td>5314 L-3</td>
</tr>
<tr>
<td></td>
<td>5314 R-3</td>
</tr>
<tr>
<td></td>
<td>5316 L-3</td>
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<td></td>
<td>5316 R-3</td>
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Editor
Regarding questions or comments please contact cab Produkttechnik GmbH & Co. KG.

Topicality
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Introduction

1.1 Instructions

Important information and instructions in this documentation are designated as follows:

**Danger!**
Draws your attention to an exceptionally grave, impending danger to your health or life.

**Warning!**
Indicates a hazardous situation that could lead to injuries or material damage.

**Attention!**
Draws attention to possible dangers, material damage or loss of quality.

**Notice!**
Gives you tips. They make a working sequence easier or draw attention to important working processes.

**Environment!**
Gives you tips on protecting the environment.

- **Handling instruction**
- **Reference to section, position, illustration number or document.**
- **Option (accessories, peripheral equipment, special fittings).**

**Time**
Information in the display.

1.2 Intended Use

- The device is manufactured in accordance with the current technological status and the recognized safety rules. However, danger to the life and limb of the user or third parties and/or damage to the device and other tangible assets can arise during use.
- The device may only be used for its intended purpose and if it is in perfect working order, and it must be used with regard to safety and dangers as stated in the operating manual.
- The device applicator mounted on a cab printer of the Hermes+ series is intended exclusively for applying suitable materials that have been approved by the manufacturer. Any other use or use going beyond this shall be regarded as improper use. The manufacturer/supplier shall not be liable for damage resulting from unauthorized use; the user shall bear the risk alone.
- Usage for the intended purpose also includes complying with the operating manual, including the manufacturer's maintenance recommendations and specifications.

**Notice!**
The complete documentation can currently be found in the Internet.

1.3 Safety Instruction

**Attention!**
Initiation, adjustments and changing of parts is only for qualified service personal only.

**Warning!**
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

- Before mounting the delivered components disconnect the printer from the power supply and close the shutoff valve at the applicator.
- Only connect the device to other devices which have a protective low voltage.
- Switch off all affected devices (computer, printer, accessories) before connecting or disconnecting.
- In operation, moving parts are easily accessible. This applies especially for the zone of belts and fans. During operation do not reach into that zone and keep long hair, loose clothes, and jewelry distant.
1 Introduction

- The device may only be used in a dry environment, do not expose it to moisture (sprays of water, mists, etc.).
- Do not use the device in an explosive atmosphere.
- Do not use the device close to high-voltage power lines.
- Perform only those actions described in this operating manual.
- Unauthorized interference with electronic modules or their software can cause malfunctions.
- Other unauthorized work on or modifications to the device can also endanger operational safety.
- Always have service work done in a qualified workshop, where the personnel have the technical knowledge and tools required to do the necessary work.
- There are various warning stickers on the device. They draw your attention to dangers. Warning stickers must therefore not be removed, as then you and other people cannot be aware of dangers and may be injured.

1.4 Safety Marking

![Safety marking diagram]

1: Warning to damages by rotating parts!

Attention!
Never remove or cover safety markings!
Replace it in case of damage!

1.5 Environment

Obsolete devices contain valuable recyclable materials that should be sent for recycling.

- Send to suitable collection points, separately from residual waste.
- The modular construction of the print module enables it to be easily disassembled into its component parts.
- Send the parts for recycling.
2 Product Description

2.1 Important Features

• For operation in a system the I/O interface of the printer can be used.

2.2 Technical Data

<table>
<thead>
<tr>
<th>Technische Daten</th>
<th>Saugband-Applikator 5314</th>
<th>Saugband-Applikator 5316</th>
</tr>
</thead>
<tbody>
<tr>
<td>Etikettenbreite</td>
<td>Hermes+4 mm 20 – 114</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Hermes+6 mm –</td>
<td>50 – 174</td>
</tr>
<tr>
<td>Etikettenhöhe</td>
<td>mm</td>
<td>70 – 320</td>
</tr>
<tr>
<td>Produkt während der Etikettierung</td>
<td>in Bewegung</td>
<td>■</td>
</tr>
<tr>
<td>Etikettierung auf das Produkt</td>
<td>von oben</td>
<td>■</td>
</tr>
<tr>
<td></td>
<td>von unten</td>
<td>■</td>
</tr>
<tr>
<td></td>
<td>von der Seite</td>
<td>■</td>
</tr>
<tr>
<td>Produktabstand</td>
<td>fest</td>
<td>■</td>
</tr>
<tr>
<td>Riementransportband Geschwindigkeit</td>
<td>mm/s 100 / 150 / 220 / 300</td>
<td></td>
</tr>
<tr>
<td>Länge</td>
<td>mm</td>
<td>390</td>
</tr>
<tr>
<td>Taktrate ca.1)</td>
<td>Etiketten/min.</td>
<td>30</td>
</tr>
</tbody>
</table>

1) Emittelt bei 100 mm Etikettenhöhe / Druckgeschwindigkeit 100 mm/s

Table 1 Technical Data
2 Product Description

2.3 Overview

Fig. 2  Device overview

1  SUB-D 15 Interface to the printer
2  Sensor
3  Pressure roller
4  Setting screw roller pressure
5  Setting screw stopper roller
6  Fan
7  Motor belts
8  Control unit
9  Base plate for mounting on printer
10 Screws to adjust the angle of the applicator
11 Screws to adjust the applicator direction
Fig. 3  Contents of delivery
1  Applicator mountet
2  Scews to mount on the printer
3  Documentation

Notice!
Please keep the original packaging in case the applicator must be returned.

Attention!
The device and printing materials will be damaged by moisture and wetness.
► Set up label printer with applicator only in dry locations protected from splash water.
3 Operation

3.1 Standard Operation

- Check all external connections.
- Load the material. Ensure that the locking system is locked “Operator's Manual” of the printer.
- Switch on the printer.
- Press the feed key at the printer.
  A synchronization feed is released. The processed labels have to be removed manually. After a few seconds the printer carries out a short backfeed to position the front edge of the next label at the printing line.

Notice!
This synchronizing also has to be carried out when the print job has been interrupted with the cancel key. Synchronizing is not necessary when the print head was not lifted between print jobs. This also applies if the printer was powered off between print jobs.

- Start a print job
- Start the labelling process via PLC interface.

Error messages during labelling process are shown in the display of the printer Error Messages.

3.2 Cleaning

Attention!
Never use solvent and abrasive.

- Clean the outside surfaces and transport belts with multi purpose cleaner. area 1
- Clean the fan area with a soft brush or/and a vacuum cleaner. area 2
- Use glass cleaner to clean the reflex sensor. area 3

Fig. 4 Cleaning
Mounting

1. Put the printer on the backside - print head unit and material transport unit on top.
2. Hold the mounted applicator (6) on the printer so that the holes in the mounting plate (4) are direct over the holes in the bottom side of the printer chassis (1).
3. Put in screws (5) and tighten it.
4. Put in the Sub-D 9 male connector (3) into the Sub-D 9 female connector (2) of the printer.

Attention!
Initiation, adjustments and changing of parts is only for qualified service personal only.

Attention!
- Disconnect the printer from the power supply before mounting the applicator!
- Ensure a stable standing of the printer!
4 Error Messages

4.1 Error messages of the printer

For detailed information about printer errors (e.g. 'Paper out', 'Ribbon out', etc.) ▶ Operator's manual of the printer

Error treatment :

► Clear the error results
► Press the feed key to synchronize the label feed, remove the peeled labels manually
► Press the pause key to quit the error state.

After error correction, the print of the label causing the error will be repeated.

5.2 Error messages of the applicator

The following table contains an overview of error messages and their possible causes. It also suggests methods to resolve the problem :

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Possible Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vac. plate empty</td>
<td>Label is removed of the waiting position on the pinch roller before the signal START was come in.</td>
</tr>
<tr>
<td>Upper position</td>
<td>The label had not arrived the sensor area 5 sec. after print or it wasn't detected.</td>
</tr>
</tbody>
</table>

Table 2 Error messages of the applicator

Error treatment :

► Clear the error results
► Press the pause key to quit the error state.

Notice!
In fault check adjustments and settings with help of the Service Manual.

After error correction, the print of the label causing the error cannot be repeated without re-start of the print job. Except at the error "Vac. plate empty". In this case, the latest label will print again after quit the error with the pause key and then press the Enter button ▼.

► In the application mode "Apply/Print" send the signal "Print first label" or press the button ▼ to send a printed label to the applicator.
# Declaration of Incorporation

We declare herewith that the following „partly completed machinery“ as a result of design, construction and the version put in circulation complies with the essential requirements of the **Directive 2006/42/EC on machinery**: Annex I, Article 1.1.2, 1.1.3, 1.1.5, 1.1.6, 1.2.1, 1.3.2, 1.5.2, 1.5.8, 1.6.3, 1.7

In the event of any alteration which has not been approved by us being made to any device as designated below, this statement shall thereby be made invalid.

<table>
<thead>
<tr>
<th>Device:</th>
<th>Vacuum-Belt Applicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type:</td>
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</tbody>
</table>

**Applied EU Regulations:**

- Directive 2006/42/EC on machinery
  - EN ISO 12100:2010
  - EN ISO 13849-1:2008

**Other Relevant Directives:**

- Directive 2014/30/EU relating to electromagnetic compatibility
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

**Person authorised to compile the technical file:**

<table>
<thead>
<tr>
<th>Erwin Fascher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Am Unterwege 18/20</td>
</tr>
<tr>
<td>99610 Sömmerda</td>
</tr>
</tbody>
</table>

**Signed for, and on behalf of the Manufacturer:**

<table>
<thead>
<tr>
<th>cab Produkttechnik Sömmerda Gesellschaft für Computer- und Automationsbausteine mbH 99610 Sömmerda</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sömmerda, 01.03.2016</td>
</tr>
<tr>
<td>Erwin Fascher</td>
</tr>
<tr>
<td>Managing Director</td>
</tr>
</tbody>
</table>

The product must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of the Directive on machinery.

The documents according annex VII part B from the incomplete machinery are created and will commit to state agencies on request in electronic kinds.
### EU Declaration of Conformity

We declare herewith that the following device as a result of design, construction and the version put in circulation complies with the relevant fundamental regulations of the EU Rules for Safety and Health. In the event of any alteration which has not been approved by us being made to any device as designated below, this statement shall thereby be made invalid.

<table>
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<tr>
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</tr>
<tr>
<td>Applied EU Regulations:</td>
<td>Applied Standards:</td>
</tr>
<tr>
<td>Directive 2014/30/EU relating to electromagnetic compatibility</td>
<td>• EN 55022:2010</td>
</tr>
<tr>
<td></td>
<td>• EN 55024:2010</td>
</tr>
<tr>
<td></td>
<td>• EN 61000-6-2:2005</td>
</tr>
</tbody>
</table>

**Signed for, and on behalf of the Manufacturer:**

cab Produkttechnik Sömmerda
Gesellschaft für Computer- und Automationsbausteine mbH
99610 Sömmerda

Sömmerda, 01.03.2016

Erwin Fascher
Managing Director