Operator's Manual

Applicator 1000

Operator's Manual - Translation of the Original Version for the following products

2

Family	Type
Applicator	1000

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Editor

Regarding questions or comments please contact cab Produkttechnik GmbH & Co. KG.

Topicality

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1 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.

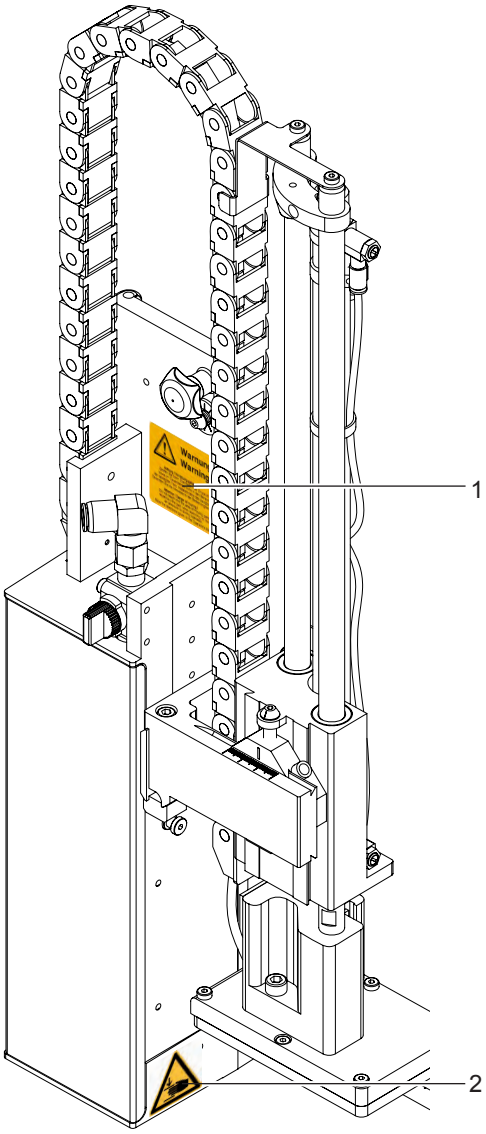
Notice!
The complete documentation can currently be found in the Internet.

1.3 Safety Instructions

- 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, where the pad is moved between the starting and the labelling position. During operation do not reach into that zone and keep long hair, loose clothes, and jewelry distant. Before any manipulations in those areas, close the shutoff valve.
- 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.
  Work going beyond this may only be performed by trained personnel or service technicians.
- 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



1: 

Warning to damages by moving parts !

2: 
Danger of crushing to hand and fingers by the moving pad !

Fig. 1 Safety marking

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 Function

The Applicator 1000 is an optional device to use with cab printers of the Hermes + series for automatically applying the printed label onto the product. The labels are transferred with a pad, which moves between the two positions, starting position and labelling position, by a compressed-air driven pneumatic cylinder.

- In the starting position, the label is picked up from the printer.
- A sensor at the cylinder signals when the pad is in the starting position.
- The label is removed from the carrier ribbon directly at the dispense edge of the printer. It is sucked on the pad by a vacuum via drillings at the bottom of the pad.
- For support, the label is also blown against the pad with an air current coming from a blow tube.
- The correct transfer of the label is controlled by a vacuum sensor.
- Next, the pad is moved down into the labelling position.
- Reaching the labelling position is confirmed by another sensor (labelling position sensor).
- In the labelling position the label is transferred onto the product.
- While the pad is moving back into the starting position, the vacuum sensor checks whether the label has been removed from the pad.

The label can be applied with three different methods :

- **Stamp on**
  The label is pressed directly onto the product.
- **Blow on**
  The pad moves to a pre-adjusted position approximately 10mm away from the product. The label is blown onto the product by an air stream.
- **Roll on**
  In the starting position the label is forwarded until touching the roller of the roll on pad. At the labelling position the roller is pressed onto the product. Then the label is applied and rolled on by the movement of the product.

2.2 Important Features

- The supporting air and the vacuum as well as the speed of the cylinder are adjustable. That way the applicator can be adapted to different label materials and sizes.
- The operating pressure for the cylinder is reduced in comparison to the main pressure of the applicator. So the risk of injury is reduced as far as possible.
- To avoid contamination within the vacuum channels they are cleaned by air pressure impulse at the end of each application.
- For operation in a system the I/O interface of the printer can be used.

2.3 Technical Data

Label transfer method		**Stamp on**	**Roll on**	**Blow on**
Label width in mm		25 - 116		
Label height in mm		25 - 200	80 - 250	25 - 100
Cylinder stroke in mm		220 / 300 / 400		
Pad stroke below printer in mm		136 / 236 / 336	136 / 236 / 336	120 / 220 / 320
Compressed air pressure		0,4-0,45 MPa (4-4,5 bar)		
Sound pressure level		max. 74 dB(A)		
Product surface		flat		
Product height	variable	■	■	-
	fixed	-	-	■
Product	fixed	■	-	■
	linear movement	-	■	■

Table 1 Technical Data

2.4 Device Overview

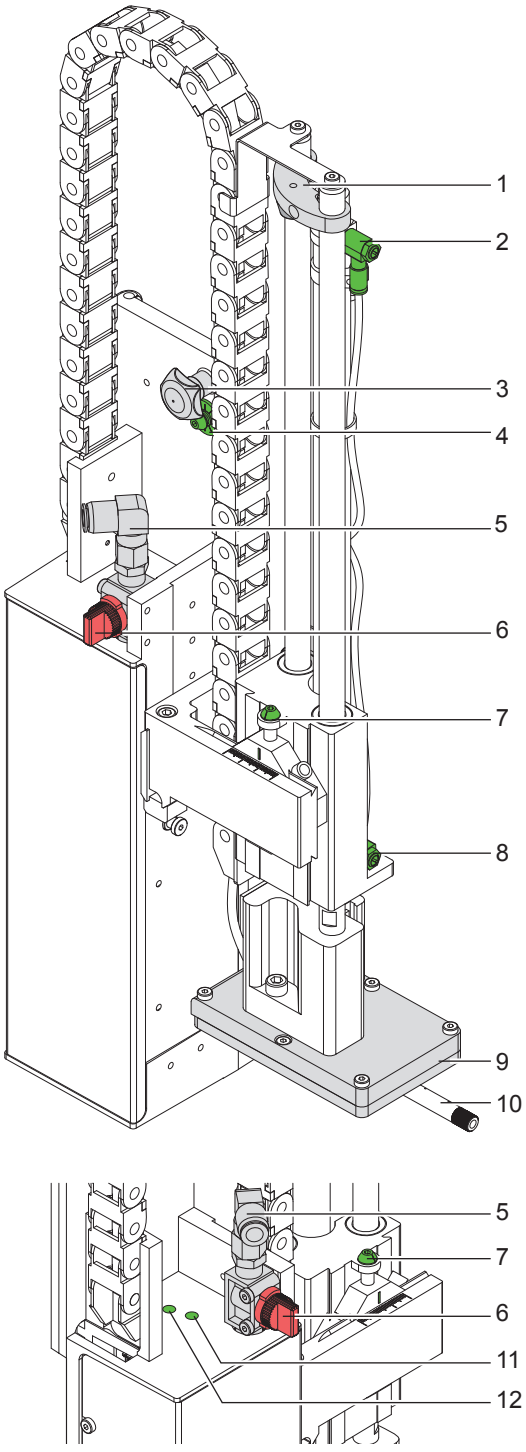
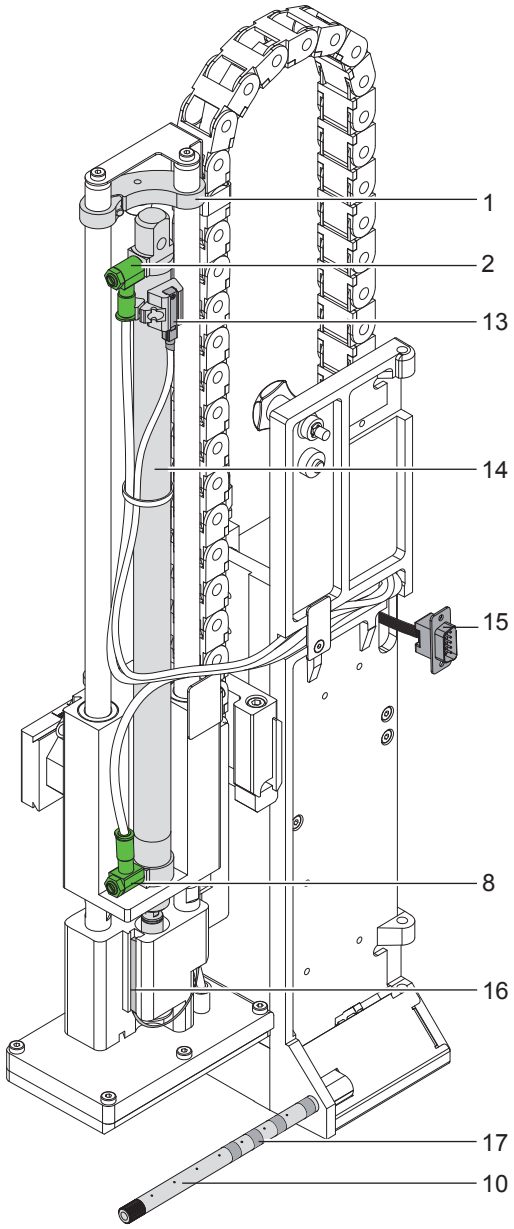


Fig. 2 Front view

1 Stopper for the operation mode "Blow on"
2 Upper cylinder throttle valve
3 Knurled screw for attaching the applicator to the printer
4 Setting screw to adjust the angle between applicator and printer
5 Compressed air connector
6 Shutoff valve
7 Setting screw for vertical adjustment
8 Lower cylinder throttle valve
9 Pad (application specific)
10 Blow tube for supporting air
11 Vacuum throttle valve
12 Supporting air throttle valve



1 Stopper for the operation mode "Blow on"
2 Upper cylinder throttle valve
8 Lower cylinder throttle valve
10 Blow tube for supporting air
13 Sensor "Start Position"
14 Pneumatic cylinder
15 Interface to the printer
16 Sensor labeling position
17 Rings to reduce supporting air

Fig. 3 Rear view

2.5 Pads

2.5.1 Tamp Pads

Universal tamp pad A1021

Standard sizes : 70x60, 90x90

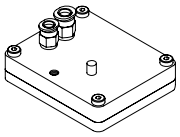


Fig. 4 Universal tamp pad A1021 70x60

Universal tamp pad A1321

Standard sizes : 116x102, 116x152

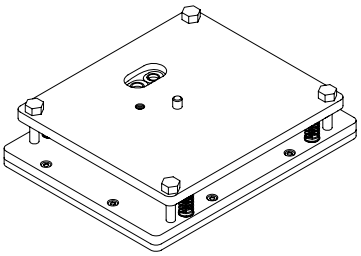


Fig. 5 Universal tamp pad A1321 116x152

Universal tamp pads (Type A1112 or Type A1312) are available in different standard sizes. According to the size of the label the holes may be pierced by the customer. For that purpose a piercing pin is included in the delivery contents.

On request, tamp pads customized to the label sized are delivered.

2.5.2 Roll-on Pads

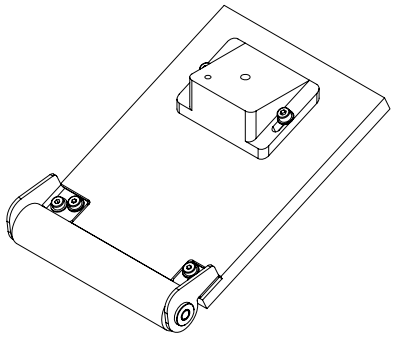


Fig. 6 Roll-on pad A1411 bxh

Roll-on pads (Type A1411) are only produced on request customized to the label size.

2.5.3 Blow Pads

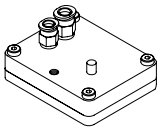
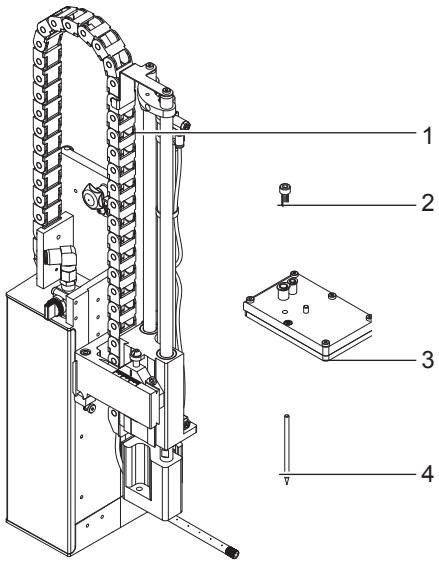


Fig. 7 Blow pad A2021 bxh

Blow pads (Type A2111) are only produced on request customized to the label size.

3.1 Contents of Delivery



1 Applicator with lift cylinder
2 Screw
(part of the pad)
3 Pad (as ordered)
4 Piercing pin
(at universal tamp pads only)
5 Documentation

Fig. 8 Contents of delivery

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.

3.2 Piercing the Universal Tamp Pad

On the bottom of the pads there are holes for sucking and holding the labels by vacuum. When an universal tamp pad is delivered these holes are covered by the sliding foil and must be opened according to the label size. For that purpose a piercing pin is included in the contents of delivery.

Attention!
Danger of stab injury in case of inappropriate use.

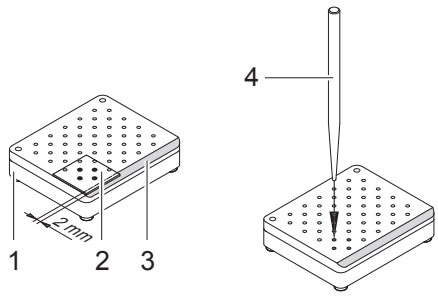


Fig. 9 Piercing the universal tamp pad

1. Place a label (1) to be operated on the bottom side of the pad (2). Note the position of the slanted edge (3).
2. Align the label to the side edge in such a way that it reaches over the rear edge of the pad by 2 mm.
3. Open all the holes, which are certainly covered by the label. Open the holes completely by turning the piercing pin (4) inside the holes

Attention!
Do not open holes, which are located less than 1 mm from a label edge.

3.3 Preparing the Applicator for Using a Tamp Pad Type 1321

Attention!
Make sure that the pad assembly can not fall if the screws are loosen.
Risk of damages and injuries.

It's possible to use the applicator with the cylinder assembly in different high position. That's depend by the type of pad. In the delivery status the pad assembly is mounted in a low position. That position is suitable for the most pads.

In case of using a large tamp pad it's necessary to change the adapter profile with the, in the shipment of the tamp included longer profile.

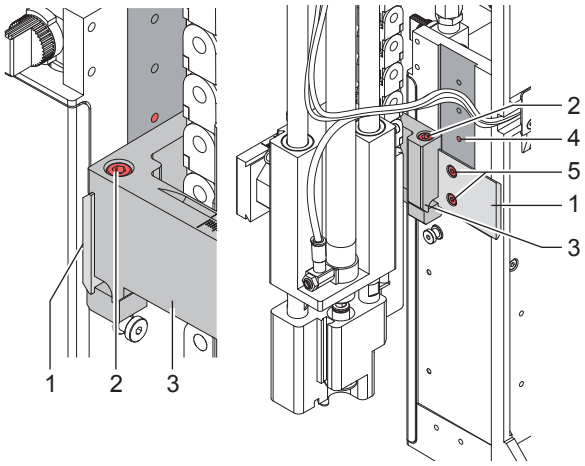


Fig. 10 Changing the attachment of the cylinder unit

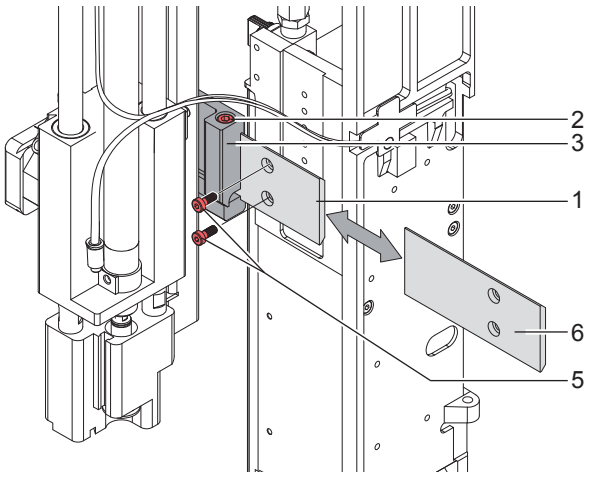


Fig. 11 Changing adapter profile for tamp pad 116x102 and 116x152

1. Loosen screws (2) and move the pad assembly with the bearing (3) at the adapter profile (1) so that it's possible to work on the screws (5).
2. Loosen screws (5).
3. For tamp pad 116x102 and 116x152 move the adapter profile (1) out of the tamp assembly (3). Put in the longer profile (6) in the direction like the picture
4. Move pad assembly with adapter profile (1) in a higher position to the next hole (4).
5. Mount the cylinder assembly in new position with screws (5) .
6. Tighten screws (2).

3.4 Mounting the Applicator to the Printer

Attention!

- ▶ **Disconnect the printer from the power supply before mounting the applicator !**
- ▶ **Ensure a stable standing of the printer !**
- ▶ **Connect the compressed air only after mounting the applicator to the printer !**

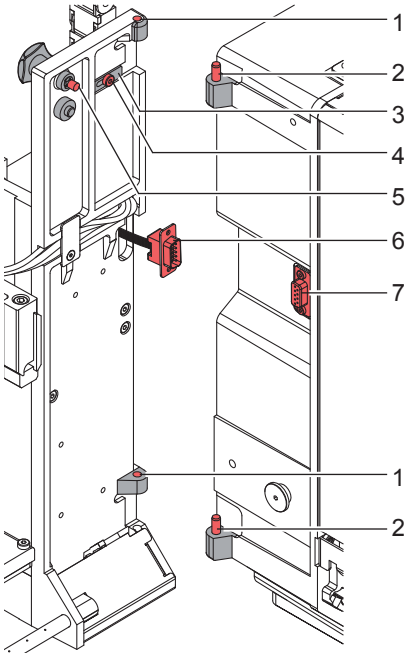


Fig. 12 Mounting and connection

1. Applicator hang with the female part (1) of hinges at the printer mounted hinges parts (2).
2. Connect SUB-D 15 male connector (6) to the female connector (7) of the printer.
3. To secure the applicator to slip out of hinges (4) loosen screw /4) and move metal part (3) under the hinges. Tighten screw (4) again.
4. Swing the applicator to the printer.
5. Tighten the thumbscrew (5).
6. Move up stopper of the position of transport safety for a free movement of the lift cylinder.
   ▷ Mounting stopper

Attention!

The pad will immediately be moved in the starting position !

Danger of crushing to hand and fingers by the moving pad !

- ▶ **Do not reach into the zone of the moving pad and keep long hair, loose clothes, and jewelry distant.**

Danger of striking by the moving rods !

- ▶ **Do not reach or bend into the zone of the moving rods !**

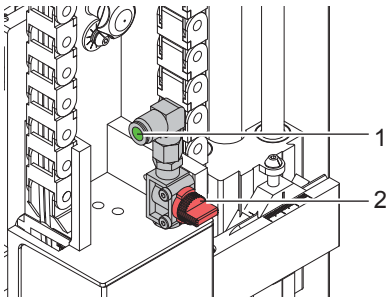


Fig. 13 Compressed air connection

1 Check the vertical position of the stop valve (2). (stop valve closed like picture)
2 Attach compressed air at the fitting (1).
3 Open the stop valve (2) (arm in direction of flow).
4 Switch on the printer by the power switch.

3.5 Mounting the Pad

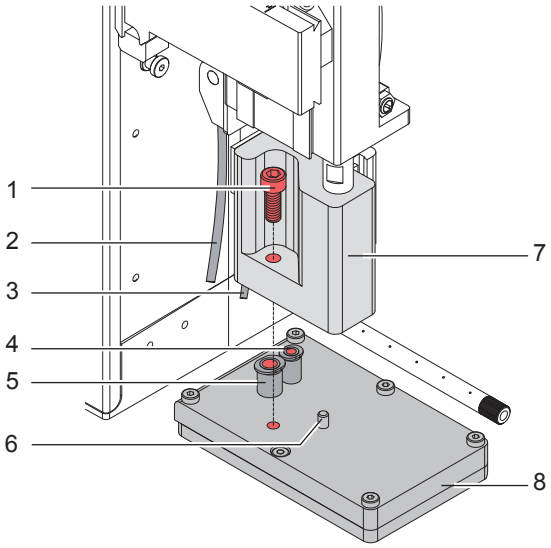


Fig. 14 Mounting the pad

1. Insert the pin (6) on the pad (8) into the hole on the bottom side of the pad holder (7).
2. Fix the pad (8) with the screw (1) at the pad holder (7).
3. Insert the vacuum tube (2) and the blowing air tube (3) into the appropriate push-in-fittings (4,5) of the pad.

Attention!

▶ **To avoid possible collisions of the pad with other parts of the printer-applicator system, please roughly align the pad in all directions (▷ "Mechanical Adjustments") before connecting the applicator to the compressed air supply !**

3.6 Mounting the Stopper for the Application Mode "Blow"

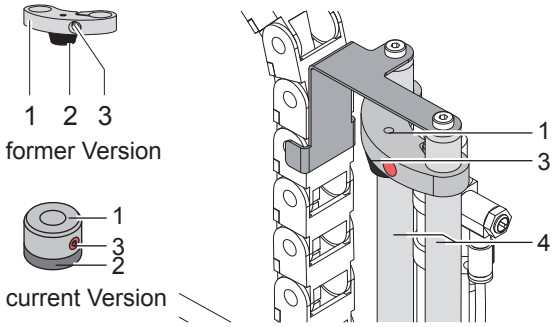


Fig. 15 Mounting the stopper

When the applicator is delivered, the stopper (1) is mounted on the rods (4). With this stopper the labelling position for the operation mode "Blow on" can be adjusted. In delivery status the stopper is in a transport safety position. Dependent of delivery time it's two different version of stopper. The function are the same.

In the operation modes "Stamp on" and "Roll on" the stopper is not needed, the stopper will moved in the top position so far as possible.

Mounting the stopper

1. Loosen screw (3) at the stopper (1) .
2. Pull the tubes out of the lift cylinder throttle valves.
3. Move the tamp in the labeling position.
   - Operation mode "Blow" : Move stopper to the guiding block.
   - Operation Mode "Stamp" and "Roll" : Move the stopper up to the end of the rods (4).
4. Tighten screw (3) to fix the stopper (1) position. ▷ "Adjust the stopper"

The tamp applicator can be operated in different ways. While the original process stays the same, the operation mode can be chosen within the printer setup.

The most important setting is the selection between the operation modes "Stamp on", "Blow on" and "Roll on".

Additionally the applicator has different application modes concerning the order of printing and applying within one labelling cycle.

	Stamp on	Roll on	Blow on
Print/Apply	**x**	**x**	**x**
Apply/Print Waiting position up	**x**	**x**	**x**
Apply/Print Waiting position down	**-**	**-**	**x**

Table 2 Operation and application modes

Additionally all operating modes can be adjusted by setting different time delays.

Notice!
For more information about the printer configuration and the function of the keys in the navigator pad ▷ Configuration manual of the printer or ▷ Operator's manual of the printer

4.1 Method for Changing the Printer Setup

1. Press **menu** key.
2. Select `Setup > Machine param. > Applicator.`
3. Select and adjust the needed parameters.
4. Return to the "Ready" mode.

4.2 Quick Mode for Setting the Delay Times

Beside the standard method for the printer configuration there is a quick mode to adjust the delay times available.

Notice !
The quick mode settings can be made during operation . The changes affect directly the current print job.

1. Press the **menu** key for at least 2 seconds.
   The first delay time appears on the display.
2. Adjust the delay time by pressing the ▲ key and ▼ key.
3. To switch between the different delay times press the ▶ key.
1. To leave the quick setup mode press the ◀ key.
   The selected delay times are stored in the printer.

4.3 Configuration Parameters of the Applicator

The configuration parameters of the applicator can be found in the menu `Setup > Machine param.`.

Parameter	Meaning	Default
 `Applicator`	Configuration parameters of the applicator	
 `> Mode of oper.`	Setting the operation mode `Stamp on, Roll on, Blow on`	`Stamp on`
 `> Mode of appl.`	Setting the application mode `Print-Apply` / `Apply-Print` `Print-Apply`: An external start signal releases the print of a label and following the application of the label. After a cycle is complete, the pad without label waits in the start position. `Apply-Print`: An extra signal starts the print of the first label and the transfer of the label to the pad. The external start signal releases the application of the label and following the print and transfer of the next label. After a cycle is complete, the pad with a label is in the waiting position.	`Print-Apply`
 `> Waiting position`	**only at Mode of oper. `Blow on` and Mode of appl. `Apply-Print`** `up` : Pad waits in the start position for the start signal `down` : Pad waits in the labelling position for the start signal	`up`
 `> Blow time`	**only at Mode of oper. `Blow on`** Switch-on time (max. 2,5 s) of the blowing air for the label transfer	`0 ms`
 `> Roll-on time`	**only at Mode of oper. `Roll on`** Dwell time (max. 5 s) of the pad in the labelling position	`0 ms`
 `> Support delay on`	Setting the switch-on delay (max. 2,5 s) for the supporting air between print start and switching on the supporting air. The delay prevents swirling at the front of the label and, consequently, avoids faults when the label is being picked up from the printer.	`0 ms`
 `> Support del. off`	Setting the switch-off delay (max. 2,5 s) for the supporting air between the end of label forwarding and switching on the supporting air. The delay can be useful to separate the rear edge of the label from the carrier to avoid errors and to improve the accuracy of label positioning	`270 ms`
 `> Delay time`	Delay (max. 2,5 s) between start signal and the start of an labelling cycle. Allows e.g. the use of product sensors at conveyors.	`0 ms`
 `> Lock time`	All start signals coming in following the first start signal are ignored when they arrive within the lock time.	`0 ms`
 `> Peel position`	Shift the position of the dispensed label relatively to the dispense edge. In the software an extra peel offset value is available. The offset values from “Peel position“ and from software are added together for execution. ▷ "Setting the Peel Position".	`0,0 mm`
 `> Vacuum control`	Setting the label transfer check from printer to pad and from pad to product by the vacuum sensor	`On`

Table 3 Applicator parameters

5.1 Mechanical Adjustments

Perform the mechanical adjustments in two steps :

- ▶ Roughly align the pad in all directions to avoid collisions of the pad with other parts when switching on the compressed air.
- ▶ Perform the fine adjustment with compressed air switched on to optimize the labelling process.

5.1.1 Moving the Pad

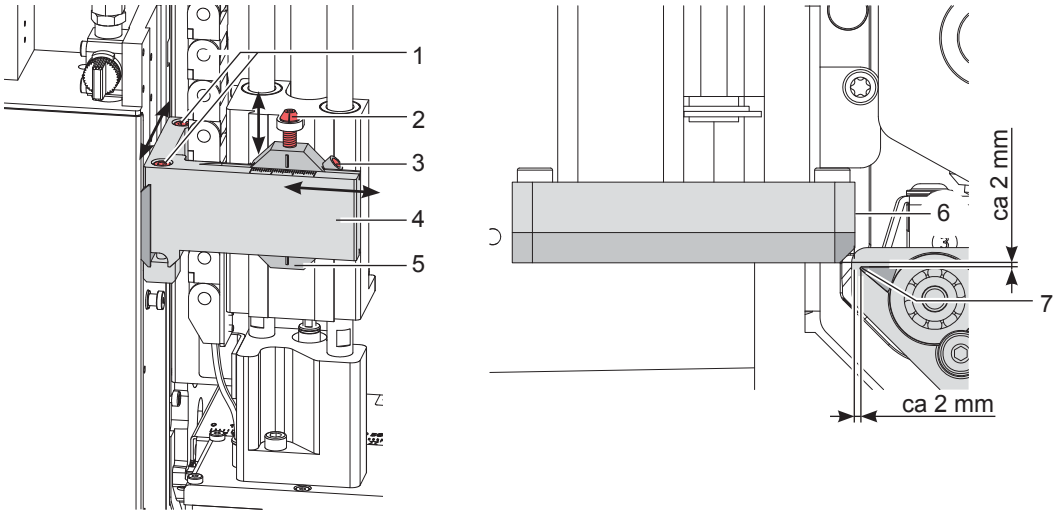


Fig. 16 Moving the pad assembly

Adjustment in print direction

1. Loosen screw (1).
2. Move cylinder assembly (4) with pad at the guide rail that the distance between edge of the pad (6) to the edge of the dispense plate (7) of the printer is approximately 2 mm.
3. Tighten screws (1).

Height adjustment

wide settings are described in section 3.3 and are only necessary in case of changing the pad type.

Fine adjustments:

1. Loosen screw (3).
2. Turn setting screw (2).
   - Clockwise will move the pad higher.
   - Counterclockwise will move the pad lower.
3. Tighten screw (3).

Side adjustment

1. Loosen screw (3).
2. Move cylinder assembly (5) with pad at the bearing (4) so that the dispensed label is aligned centrally to the pad respectively to the open holes in an universal pad.
3. Tighten screw (3).

Notice !

- ▶ **Check the adjustments with compressed air switched on**

5.1.2 Adjusting the Parallelism between Pad and Dispense Edge

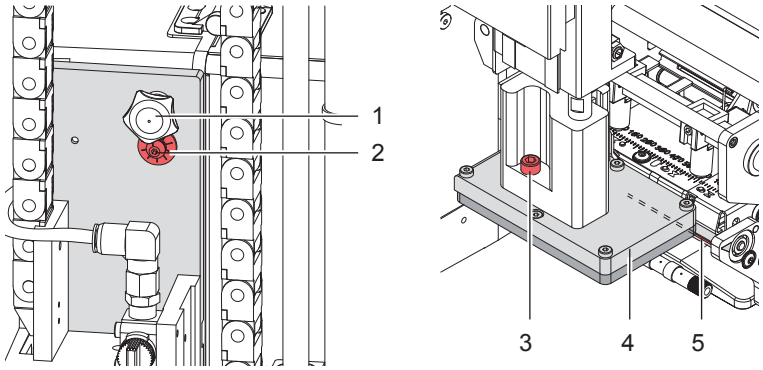


Fig. 17 Adjustment of parallelism

1. Loosen knurled screw (1).
2. Press the applicator against the printer and adjust the angle between applicator and printer via the setting screw (2).
3. Fix the applicator again via knurled screw (1) on the printer.
4. If necessary for fine adjustment loosen screw (3).
5. Turn the pad (4) with easily turning of the pad in a parallel position to the dispense edge (5).
6. Tighten screw (3) .

5.1.3 Aligning the Blow Tube

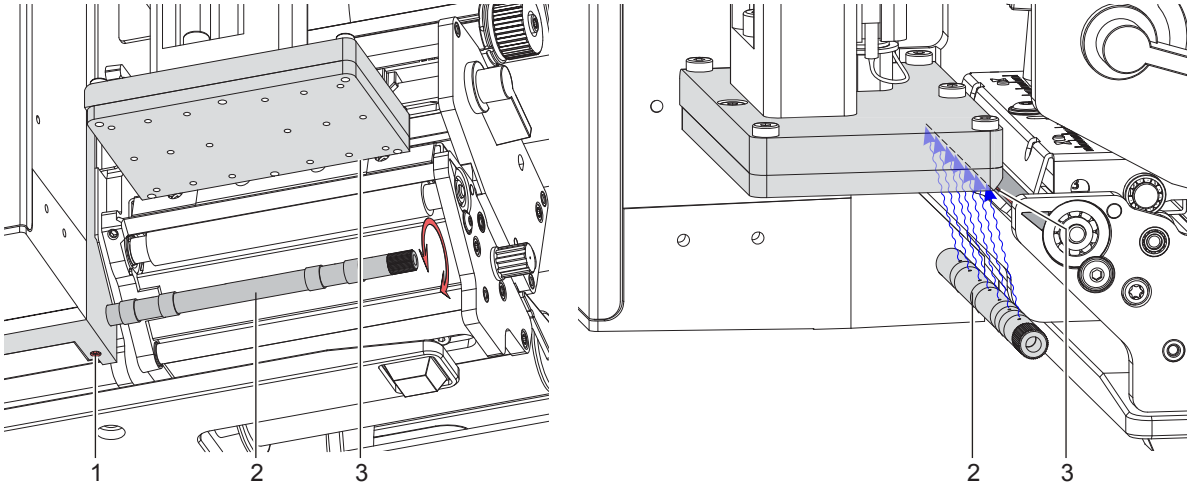


Fig. 18 Alignment of the blow tube

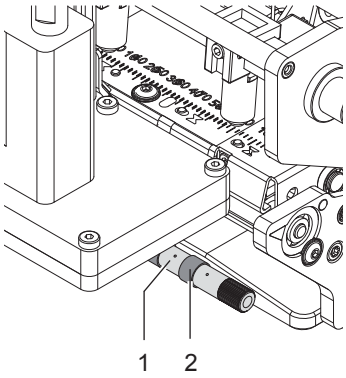
1. The blow tube (2) for the supporting air can be rotated around its axis. That way the direction of the supporting air can be optimized.

1. Loosen screw (1).
2. Turn the blow tube (2) in that direction, that the air current supports the sucking of the label by the pad.

- For small labels direct the air current to the dispense edge (3) of the printer.
- For larger labels direct the air current away from the dispense edge (3) .

3. Tighten screw (1).

5.1.4 Opening the Holes on the Blow Tube



The blow tube (1) has holes for the supporting air in regular distances of 15 mm.

When the applicator is delivered only the two inner holes are open. The other holes are closed by plastic rings (3).

To adjust the supporting air to the label width, the plastic rings (2) can be removed from the holes.

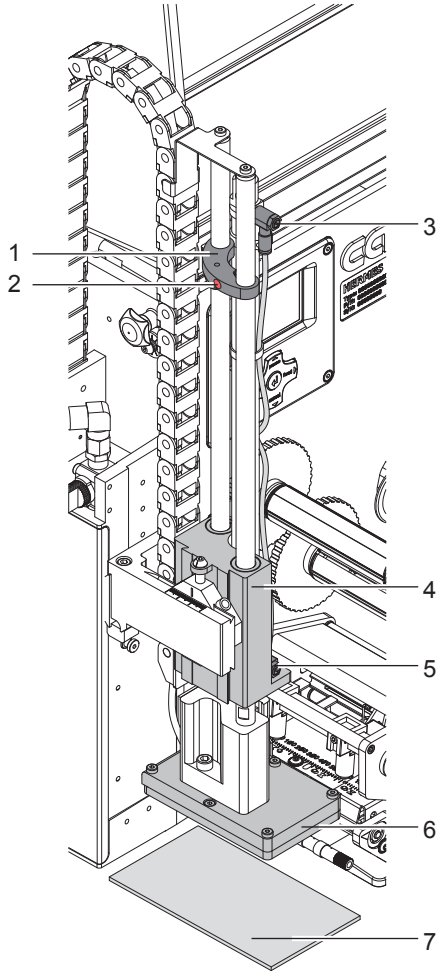
▶ Open all holes, which affect certainly the area of the label.

Fig. 19 Opening the holes on the blow tube

5.1.5 Adjusting the Stopper

Notice!
For operation mode "Blow on" only !

Attention!
▶ **Switch off the printer and close the shutoff valve for the compressed air at the service unit !**



1. Place a product sample (7) at the labelling point.
2. Pull the tubes out of the push-in-fittings (3,5).
3. Loosen the screw (2) in the stopper (1).
4. Move the pad manually in the required labelling position. The distance between the blow pad (6) in the labelling position and the product surface (7) must not exceed 10 mm.
5. Move the stopper (1) against the guide block (4) and tighten the screw (2).
6. Insert the tubes into the appropriate push-in-fittings (1,5).
7. Open the shutoff valve and switch on the printer.

Fig. 20 Adjusting the stopper

5.2 Pneumatic Adjustments

5.2.1 Adjusting the Pad Movement Speed

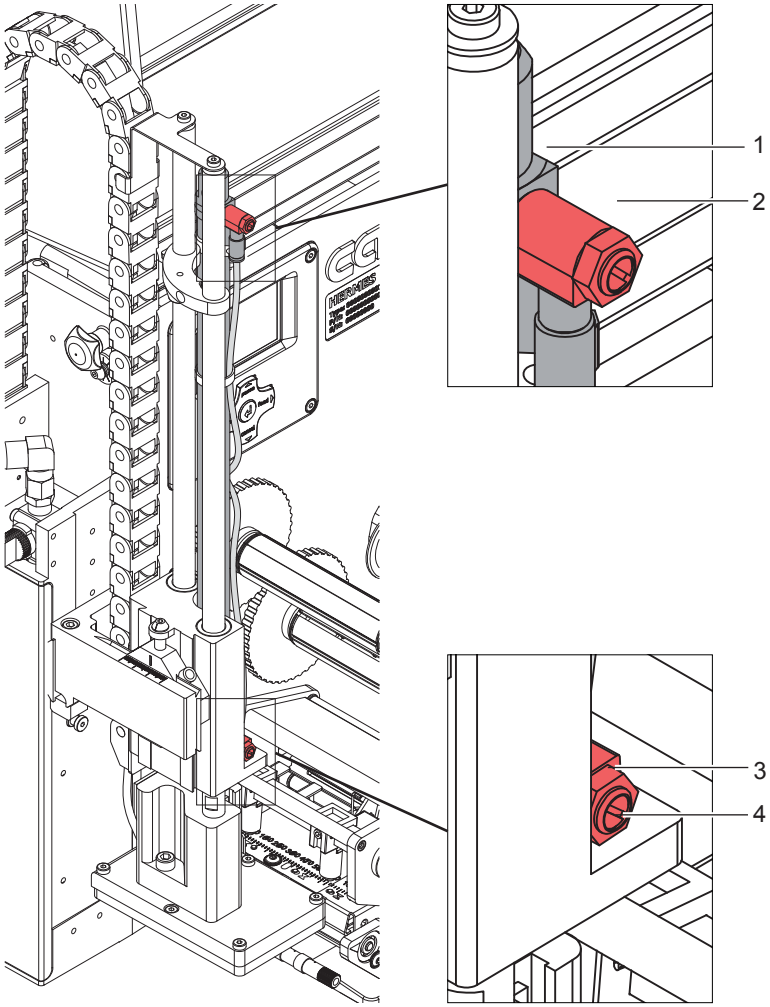


Fig. 21 Throttle valves on the cylinder

The speed of the pad movement can be regulated via two throttle valves (1, 3).

- ▶ Adjust the pad movement speed as necessary.
- ▶ To increase the downward speed turn counterclockwise the screw (4) at the lower valve (3).
- ▶ To increase the upward speed turn counterclockwise the screw (2) at the upper valve (1).

Notice!
The application pressure of the pad is mainly dependent on the downward speed of the pad.

- ▶ **In order to reduce the application pressure turn clockwise the screw (4).**

Attention!
The time for the downward movement of the pad may not exceed 2 seconds
Otherwise the error message "`Lower position`" will appear.

5.2.2 Adjusting Vacuum and Supporting Air

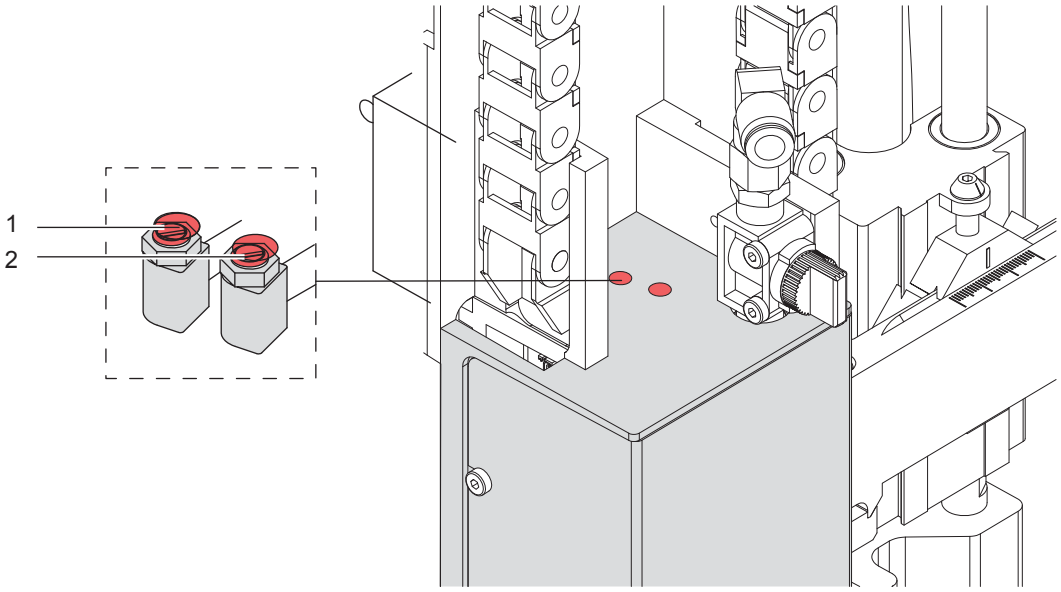


Fig. 22 Throttle valves on the manifold

Adjusting the supporting air

With the valve (1) the supporting air to blow the label against the pad can be adjusted.

- ▶ Adjust the supporting air in such a way, that it will be blown against the label without swirling.
- ▶ To increase the supporting air turn counterclockwise the screw at the valve (1).
- ▶ If necessary adjust the direction of the air current ▷ "Aligning the Blow Tube".

Adjusting the vacuum

With the valve (2) the vacuum to suck the label onto the pad can be adjusted.

- ▶ Adjust the vacuum in such a way, that the label is properly sucked by the pad.
- ▶ To increase the vacuum turn counterclockwise the screw at the valve (2).

Notice!
With the vacuum setting the final position of the label on the pad can be adjusted. If the vacuum is too high the label feeding may early be stopped.

6.1 Activation of Peel-off Mode

Notice!

- **For labelling operation activate the peel-off mode in the software.**

For direct programming use the P command ▷ Programming manual.

6.2 Setting the Peel Position

To optimize the transfer of the labels from the printer to the pad there two different parameters are available for adjusting the peel position.

Attention!

- **First adjust the parameter "Peel Position" in the printer configuration.**
- **Following adjust the additional peel-off offset in the software.**

It is very important to follow that procedure for a certain start after label loading and for the re-start after error treatment.

Parameter "Peel Position" in the printer configuration

- Check the basic setting in the printer setup. Perform labelling cycles by alternately pressing the **feed** key and the pre-dispense key ▷ "Test Mode Using the Pre-dispense Key without Print Job".
- Adjust the "Peel Position" in such a way, that the blank labels are peeled-off completely from the liner ▷ "Configuration Parameters of the Applicator".

Peel-off offset in the software

- Check the setting in the software. Perform labelling cycles by repeatedly pressing the the pre-dispense key ▷ "Test Mode Using the Pre-dispense Key with Print Job".
- Adjust the peel-off offset in such a way, that the printed labels are peeled-off completely from the liner ▷ Programming manual or software documentation.

6.3 Test Mode without Print Job

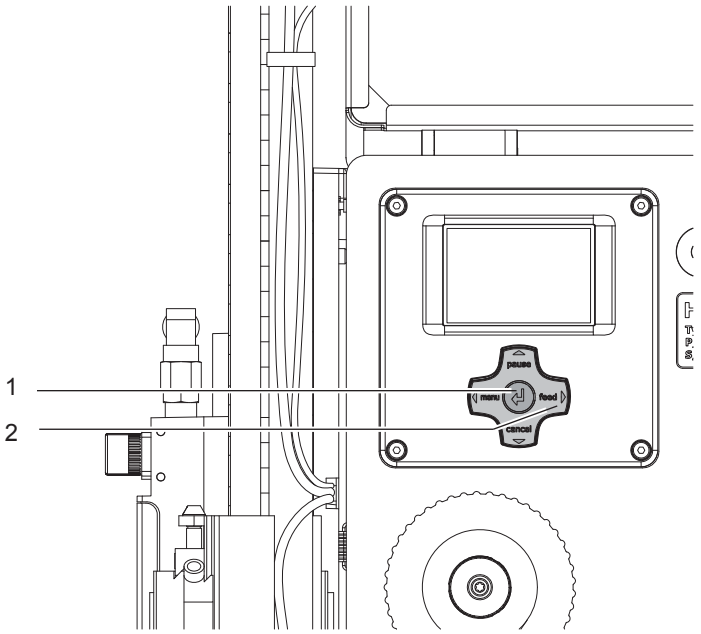


Fig. 23 Test mode via Enter key

The whole labelling process can be simulated without the need of a print job or a connection to a computer by alternately pressing the **feed** (2) key and the Enter key ↵ (1) :

▶ Press the **feed** key (2).
A blank label is fed. The vacuum at the pad as well as the supporting air (blow tube) are switched on. After the label has been picked up by the pad, the supporting air is switched off.

▶ Press the Enter key ↵ (1).
The pad is moved to the labelling position. A sensor signals when the labelling position is reached. The vacuum is switched off and the label is placed onto the product. Then, the pad is moved back into the starting position.

Notice!

▶ **Please use that test mode to adjust the parameter "Peel position" in the printer configuration.**

6.4 Test Mode with Print Job

That method allows to check labelling process with the real print data using the Enter key ↵ (1).

▶ Send a print job.

The test mode is executed in two half cycles :

▶ Press the Enter key ↵ (1).
Half cycle 1
A label is printed. The vacuum at the pad as well as the supporting air (blow tube) are switched on. After the label has been picked up by the pad, the supporting air is switched off.

▶ Press the Enter key ↵ (1) again.
Half cycle 2
The pad is moved to the labelling position. A sensor signals when the labelling position is reached. The vacuum is switched off and the label is placed onto the product. Then, the pad is moved back into the starting position.

If the label is manually removed from the pad after the first half cycle, the half cycle 1 will be repeated when the pre-dispense key is pressed again.

Notice!

▶ **Please use that test mode to adjust the peel-off offset in the software.**

6.5 Standard Operation

- ▶ Check all external connections.
- ▶ Load the material. Ensure that the locking system is locked ▷ "Operator's Manual" of the printer.
- ▶ Open the shutoff valve.

Attention!

- ▶ **Ensure that the pad is not covered by a label when switching on the printer-applicator system. Otherwise the vacuum sensor may be calibrated faultily.**

- ▶ Switch on the printer.

Notice!
Befindet sich der Stempel im Moment des Zuschaltens der Druckluft und des Druckers nicht in der Grundposition wird eine Fehlermeldung auf dem Display des Druckers ausgegeben.

Durch Drücken der Taste PAUSE am Drucker wird der Fehler quittiert und der Applikator bewegt sich in die Grundposition.
Der Applikator ist betriebsbereit.

- ▶ 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 printhead 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".

7 Error Messages

7.1 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.

7.2 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 :

Error Message	Possible Cause	Solution
`Air pressure ins.`	Compressed air is switched off	Check the shutoff valve
`Label not depos.`	Label has not been placed onto the product; after the pad has moved back the label still sticks on the pad	Label the product manually
`Lower position`	Pad has not reached the labelling position within 2s after the movement of the pad was started Pad has undefined leaving the start position.	Check the settings of compressed air (esp. the lower throttle valve of the cylinder) Check the applicator for heaviness of its mechanics; Check the labelling position sensor (service); Label the product manually if necessary
`Process Error`	Process of labeling was braked via the I/O interface of the printer with the XSTP signal	Label the product manually if necessary
`Refl. sensor blk.`	There has been no change of the switch state at the upper sensor at the cylinder between the start of the labelling process and the signal from the labelling position sensor	Check the start position sensor (service)
`Vac. plate empty`	Label has not been picked up properly by the pad; or label fell off the pad before it could be placed onto the product	If possible, place the 'lost' label onto the product manually; Otherwise stop print job and start again with adapted parameters (e.g. count) If the error recurs check the pad alignment, the adjustment of vacuum and supporting air and the setting of the peel position
`Upper position`	Pad has not reached the starting position within 2s after the pad has left the labelling position; or pad has left the starting position unauthorized	Check the pneumatic adjustments (esp. the upper throttle valve of the cylinder); Check the applicator for heaviness of its mechanics; Check the labelling position sensor (service); Label the product manually

Table 4 Error messages of the applicator

Error treatment :

- ▶ Clear the error results
- ▶ Press the **pause** key to quit the error state.

Attention!

The pad will immediately be moved in the starting position !

Danger of crushing to hand and fingers by the moving pad !

- ▶ **Do not reach into the zone of the moving pad and keep long hair, loose clothes, and jewelry distant.**

After error correction, the print of the label causing the error cannot be repeated without re-start of the print job.

- ▶ In the application mode "Apply/Print" send the signal "Print first label" or press the pre-dispense key before starting the cyclic operation.

8.1 EC Declaration of Incorporation

Gesellschaft für Computer- und Automations-Bausteine mbH & Co KG
Wilhelm-Schickard-Str. 14
D-76131 Karlsruhe,
Germany

EC 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

The „partly completed machinery“ additionally complies with the Directive 2004/108/EC relating to electromagnetic compatibility.

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.

Device:	**Applicator**
Type:	**1000**
Applied EC Regulations and Norms:	
Directive 2006/42/EC on machinery	• **EN ISO 12100-1:2003**
	• **EN ISO 12100-2:2003**
	• **EN ISO 14121-1:2007**
	• **EN 60950-1:2006+A11:2009**
Person authorised to compile the technical file :	**Erwin Fascher** **Am Unterwege 18/20** **99610 Sömmerda**
Signed for, and on behalf of the Manufacturer : **cab Produkttechnik Sömmerda** **Gesellschaft für Computer-** **und Automationsbausteine mbH** **99610 Sömmerda**	**Sömmerda, 25.01.2010**  **Erwin Fascher** **Managing Director**

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.

Declaration of Conformity according Directive 2004/108/EC relating to electromagnetic compatibility on the next page

8.2 EC Declaration of Conformity

Gesellschaft für Computer- und Automations- Bausteine mbH & Co KG
Wilhelm-Schickard-Str. 14
D-76131 Karlsruhe,
Germany

EC Declaration of Conformity

We declare herewith that as a result of the manner in which the device designated below was designed, the type of construction and the devices which, as a result have been brought on to the general market comply with the relevant fundamental regulations of the EC 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.

Device:	**Applicator**
Type:	**1000**
Applied EC Regulations and Norms:	Applied Norms:
Directive 2004/108/EC relating to electromagnetic compatibility	• **EN 55022:2006**
	• **EN 55024:1998+A1:2001+A2:2003**
	• **EN 61000-3-2:2006**
	• **EN 61000-3-3:2008**
Signed for, and on behalf of the Manufacturer : **cab Produkttechnik Sömmerda** **Gesellschaft für Computer-** **und Automationsbausteine mbH** **99610 Sömmerda**	**Sömmerda, 25.01.2010**  **Erwin Fascher** **Managing Director**

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