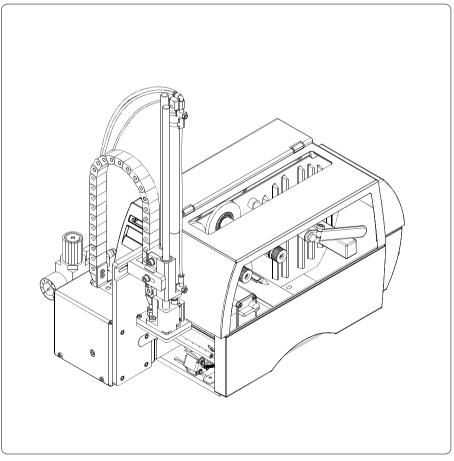


Operator's Manual

Edition 3/04





Gesellschaft für Computer- und Automations-Bausteine mbH & Co KG cab-Produkttechnik GmbH & Co KG Postfach 19 04 D-76007 Karlsruhe Wilhelm-Schickard-Str. 14 D-76131 Karlsruhe Telefon +49 (0) 721 / 66 26-0 Telefax +49 (0) 721 / 66 26-249 http://www.cabgmbh.com e-mail : info@cabgmbh.com

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All specifications about delivery, design, performance and weight are given to the best of our current knowledge and are subject to change without prior notice.

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1. Product Description

Function

The Tamp Applicator is an optional device to use with the A3/200P, A3/300P, A4/300P and A4/600P printers for automatically applying the printed label onto the product.

The labels are transfered 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 by the pad. 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, which is confirmed by another sensor (labelling position sensor). Here, the label is transferred onto the product.

The label can be applied with three different methods :

1. Tamp on

The label remains in a fixed position. The label is pressed directly onto the product.

2. Blow on

The pad moves to a pre-adjusted position approximately 10mm away from the product. The labels is blown onto the product by an air jet stream. The print and apply cycle performs in a fixed position or in linear movement of the product.

3. Roll on

The label is dispensed and moved 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.

While the pad is moving back into the starting position, the vacuum sensor checks whether the label has been removed from the pad.

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.

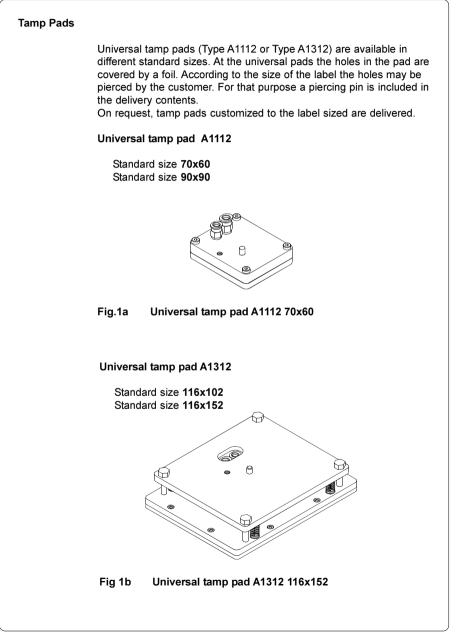
To avoid contamination within the vacuum channels these are cleaned by air pressure impulse at the end of each application.

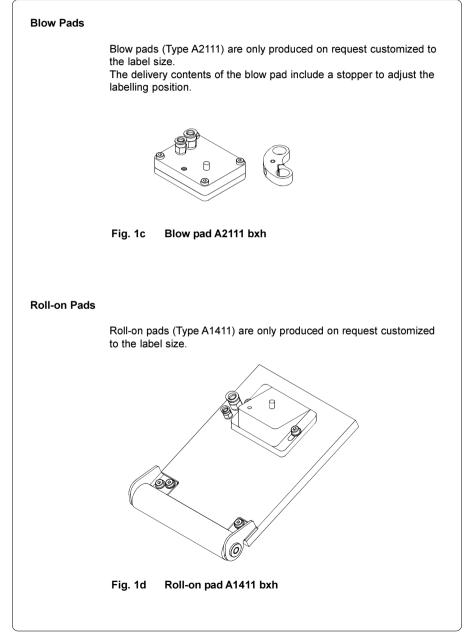
For operation in a networked system the 15-pin or 25-pin applicator's PLC (programmable logic control) interface with potential free inputs and outputs can be used.

Technical Data

	Tamp on	Blow on	Roll on
Label width in mm	25 - 116	25 - 100	25 - 116
Label height in mm	25 - 150	25 - 100	80 - 150
Cylinder stroke in mm		220/300	
Stroke of tamp			
below printer in mm		70/150	
Compressed air press.		4 to 6 bar	
Product surface		flat	

Table 1 Technical Data





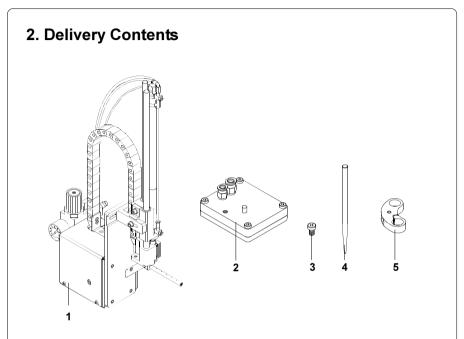


Fig. 2 Delivery contents

- 1 Tamp applicator A1000
- 2 Pad (as ordered)
- 3 Cylinder screw (part of the pad)
- 4 Piercing pin (at universal tamp pads only)
- 5 Stopper (at blow pads only)

3. General Safety Instructions



CAUTION !

Make sure that the printer is disconnected from the power supply and the shutoff valve at the applicator is closed, while installing the delivered components.



CAUTION !

In operation, moving parts are easily accessible. This applies especially for the sector, where the pad is moved between the starting and the labelling position. During operation do not reach into that sector and keep long hair, loose clothes, and jewellery distant. Before any manipulations in those areas, close the shutoff valve.



CAUTION !

Do not try to manipulate or repair parts that are not described in the manuals of the tamp applicator or the printer.

4. Mounting

Mounting the Applicator on the Printer

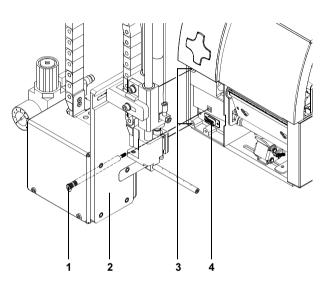


Fig. 4a Mounting the applicator



CAUTION !

Make sure that the printer is switched off before mounting the applicator !

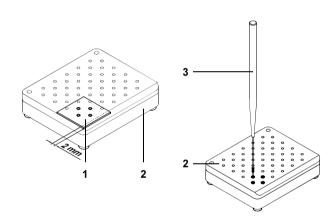
1. Insert the pins on the back of the applicator (2) into the holes (3) of the printer.

Press the applicator against the printer. That way the plug of the applicator will be connected to the peripheral port (4) of the printer.

2. Secure the applicator (2) with the screw (1).

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 a foil and must be opened according to the label size. For that purpose a piercing pin is included in the delivery contents.





- Place a label (1) to be operated on the bottom side of the pad (2). The label must be aligned to the side edge and stand over the rear edge of the pad by 2 mm.
- 2. Open all the holes, which are certainly covered by the label. Open the holes completely by turning the piercing pin (3) inside the holes.



CAUTION !

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

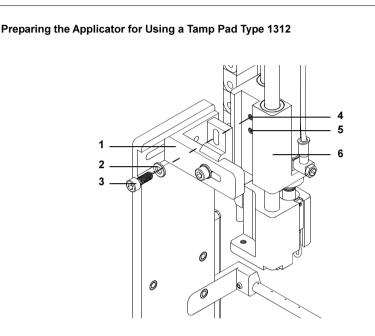


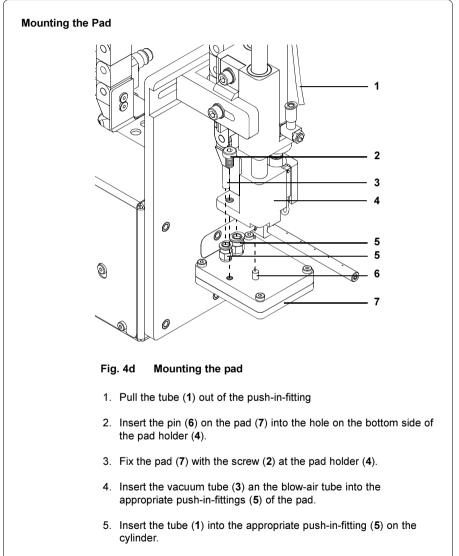
Fig. 4c Changing the fitting of the cylinder unit

The cylinder unit (6) can be mounted on the bracket (1) in two different positions.

When the applicator is delivered, the cylinder unit is mounted on the bracket using the upper threaded hole (4). That position is suitable for the most pads.

If you want to use an universal tamp pad type **A1312** the fitting of the cylinder unit must be changed.

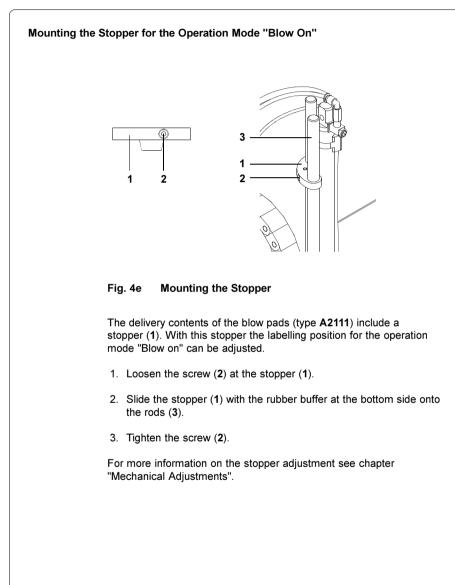
- 1. Loosen the screw (3) with washer (2) and remove the cylinder unit from the bracket (1).
- 2. Fix the cylinder unit with screw (3) and washer (2) by using the lower threaded hole (5).

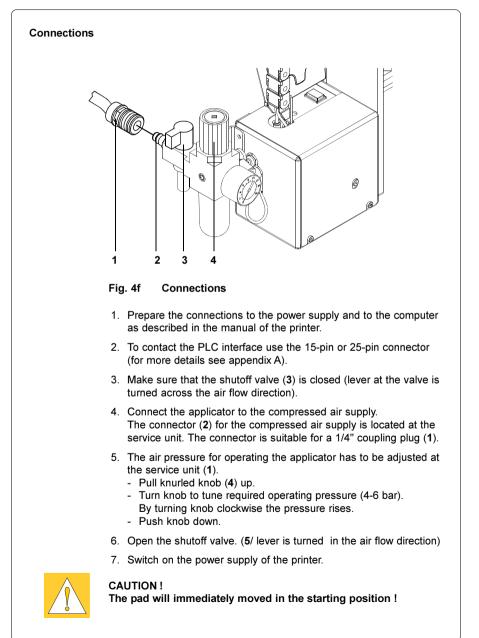




CAUTION !

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





5. Printer Configuration

The tamp applicator, with its standard components, can be operated in different ways. While the original process stays the same, the operation mode can be chosen within the printer configuration. 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	Blow on	Roll on
Print / Apply	x	x	x
Apply / Print Waiting position up	x	x	x
Apply / Print Waiting position down		x	

Table 5a Operation and application modes

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

Standard Method for Changing the Printer Configuration

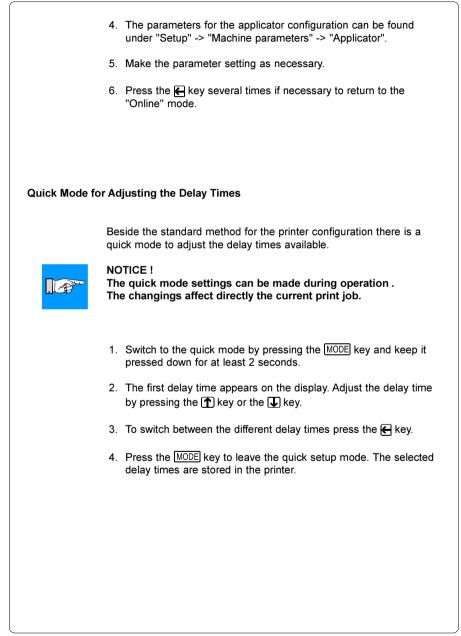


NOTICE !

Please note the detailed information about the printer configuration in der Operator's Manual of the printer !

- 1. Switch to the Offline Menu by pressing the MODE key.
- Continue to press the
 ★ key or the
 ↓ key until you reach the

 "Setup" menu. Press the
 ♦ key.



guration Parameter for the s	Applicator	
Machine param.		
Parameter	Meaning	Selection
Applicator		
Mode of oper.	Setting the operation mode Default : Stamp on	Stamp on Blow on Roll on
Mode of appl.	Setting the application mode Default : Print-Apply	Print-Apply Apply-Print
변화 Waiting position	Waiting position of the pad with dispensed label for Blow on + Apply-Print only Default : up	up down
Blow time	Setting the blow time Parameter only appears in the operation mode "Blow on" Default : 0 ms	0 2500 in steps of 10 ms
den line time ∎ den line time	Setting the roll-on time Parameter only appears in the operation mode "Roll on" Default : 0 ms	0 5000 in steps of 10 ms
∰in Support delay on	Setting the switch-on delay for the supporting air Default : 0 ms	0 2500 in steps of 10 ms
Ğ→O Support del. off	Setting the switch-off delay for the supporting air Default : 270 ms	0 2500 in steps of 10 ms
Delay time	Setting the start delay Default : 0 ms	0 2500 in steps of 10 ms
Lock time	Setting the locking time Default : 0 ms	0 2500 in steps of 10 ms
Peel position	Shift the position of the dispensed label relative to the dispensing edge Default : 0,0 mm	+9,9 -9,9 in steps of 0.1 mm
Table 5b Applic	ator parameters	

Mode of operation

With that parameter the methods for applying the labels on to the product (Tamp, Blow, Roll on) can be selected.

Mode of application

The tamp applicator can be operated in two different ways referring the order of printing and labelling within one labelling cycle.

"Print/Apply"

The print of a label is released by an external start signal (via PLC interface). At the same moment the vacuum on the pad as well as the supporting air from the blow tube are switched on. When the label is printed and picked up from the carrier ribbon, the supporting air is switched off. Then the lift cylinder is driven to move the pad down towards the labelling position. A sensor signals when the labelling position is reached.

Following, the vacuum is switched off and the label is placed onto the product.

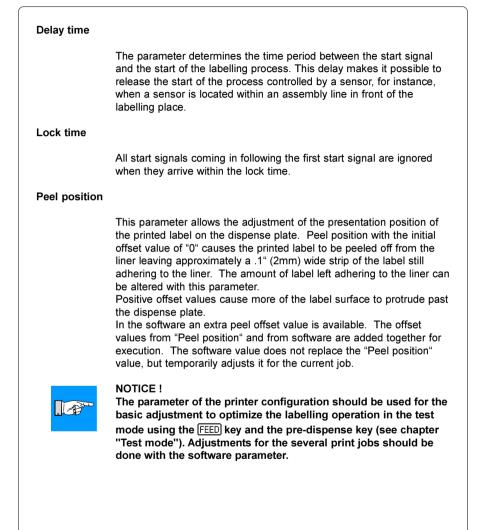
After that, the lift cylinder is driven to move the pad back into the starting position. Thus, the labelling cycle is finished.

"Apply/Print"

Before starting the cyclic operation the printing and picking up of the first label has to be released separately by a special signal via PLC interface.

Thus at the start of the cyclic operation when sending the start signal via PLC, the first label is already on the pad. The following process is similar to the mode "Print/Apply", but at the end of the cycle the next label is printed and picked up by the pad. Thus, the labelling cycle is finished.

Waiting position			
	NOTICE ! That parameter is available only when the operation mode "Blow on" <u>and</u> the application mode "Apply/Print" are selected.		
	<u>Waiting position up</u> At the cyclic operation the pad with the printed label waits in the starting position near the dispense plate of the printer for the start signal.		
	<u>Waiting position down</u> At the cyclic operation the pad with the printed label waits in the labelling position for the start signal. So the cycle starts directly with blowing the label on to the product.		
Blow time			
	That parameter is available when the operation mode " Blow on " is selected. The time period can be adjusted, when the blowing air for the transfer of the label onto the product is switched on.		
Roll-on time			
	That parameter is available when the operation mode " Roll on " is selected. The time period can be adjusted, when the roll-on pad remains in the labelling position.		
Support delay on			
	The supporting air from the blow tube is not immediately switched on when the print of the label is released but delayed. The air is switched on, when the label has covered a distance. This delay helps to prevent a turning or swinging at the front of the label and, consequently, avoids faults when the label is being picked up from the printer.		
Support delay off			
	Delayed to the process of the label being picked up, the supporting air is switched off. In many cases, after being picked up by the pad the label edge may still stick on the carrier ribbon. This may affect the accuracy of the label positioning or even cause faults in the labelling. Therefore, switching off the air blow delayed can be useful to separate the label from the carrier ribbon and neatly place the label on the surface of the pad.		



6. Adjustments

6.1. Mechanical Adjustments

The mechanical adjustments should be made in two steps. To avoid possible collisions of the pad with other parts of the printerapplicator system, please roughly align the pad in all directions before connecting the applicator to the compressed air supply. The sensitive adjustment to optimize the labelling process must be made with the compressed air switched on.

Adjusting the Pad in the Print Direction

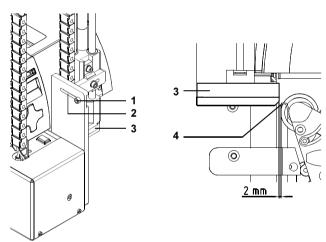


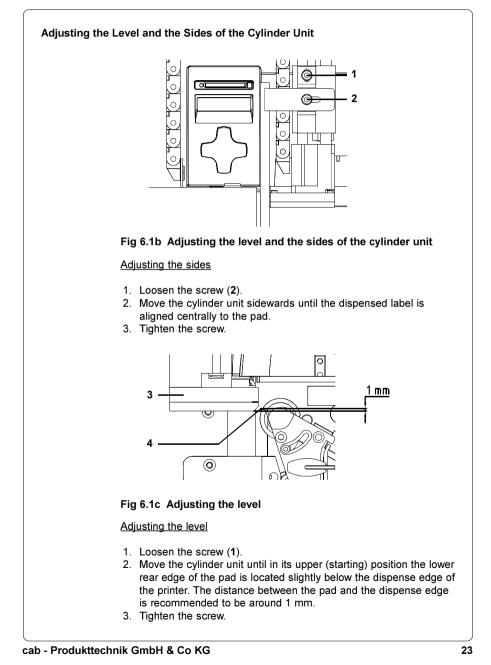
Fig. 6.1a Adjusting the pad in the print direction

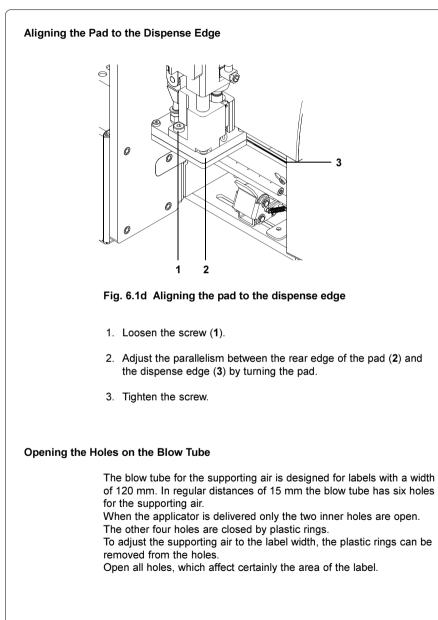
The pad (3) can be shifted in the print direction to adjust the distance between pad and the dispense edge (4) of the printer.

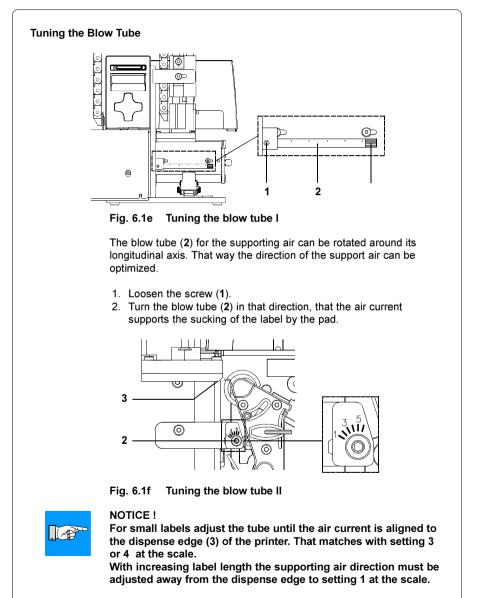
- 1. Loosen the screw (1).
- Shift the cylinder unit including the pad (3) inside the elongated hole (2).

The distance between the pad and the dispense edge should be about 2mm.

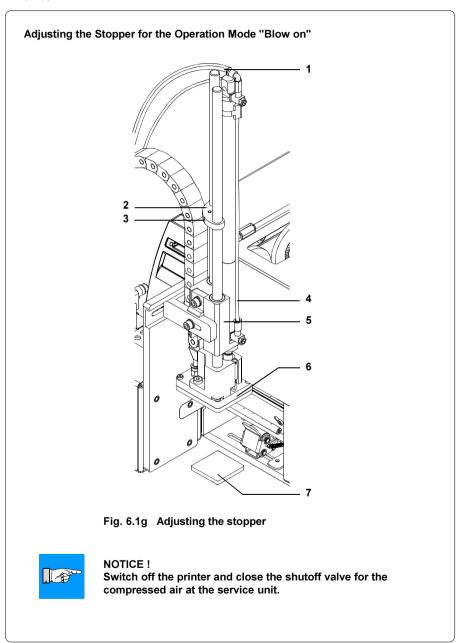
3. Tighten the screw (1).







3. Tighten the screw (1).



- 1. Place a product sample (7) at the labelling point.
- 2. Loosen the screws (3) enough so that you can move the stopper (2) along the guide bars.
- 3. Pull the tubes (1,4) out of the push-in-fittings
- 4. Move the pad manually in the required labelling position.



NOTICE !

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 (2) against the guide block (5) and tighten the screw (3).
- 6. Insert the tubes (1,4) into the appropriate push-in-fittings on the cylinder.
- 7. Open the shutoff valve and stwich on the printer.

6.2. Pneumatic Adjustment

Control Valves

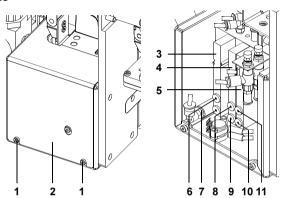


Fig. 6.2a Control valves

For adjusting the applicator, some functions can be released directly by operating the control valves (**3**, **4**, **5**).

To reach the control valves, loosen two screws (1) on the front and remove the cover (2).

That way, three electric switchable control valves for compressed air become accessible. For manual tuning, the valves can also be operated by integrated keys.

Valve (3) to control the lift cylinder

When the printer is turned on, the pad is kept in the starting position. Switching the valve will move down the pad into the labelling position. Normally the back-switching of the valve is controlled by the signal of the labelling position sensor.



NOTICE !

A manual release of the valve by pressing the integrated keys is only possible with the printer switched off !

When the key **6** is pressed, the pad moves down as far as possible and stays in that position. When operated manually, there is no controlling by the labelling position sensor. When the key **7** is pressed, the pad moves up. Double valve (4) to control the blow air

This valve controls the blow air on the pad.

In the operation mode "**Blow on**" the label will be blown on to the product by switching on the valve.

In the operation modes "**Stamp on**" and "**Roll on**" the blow air is switched on for a short time after each application to avoid contaminations within the vacuum channels.

For all functions described above, both internal valves are switched on.

By pressing the keys 8 or 9 the blow air is only switched on by one of internal valves.

Double valve (5) to control vacuum and supporting air

One of the internal valves operates the vacuum nozzle and, consequently, controls the vacuum on the pad for picking up the label. The other valve controls the switch-on of the supporting air at the blow tube.

By pressing the key **10** the supporting air is switched on. Pressing the key **11** activates the vacuum on the pad.

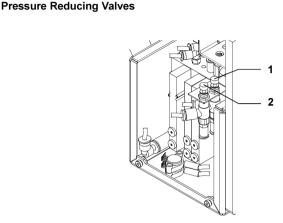


Fig. 6.2b Pressure reducing valves

The pneumatic control of the applicator contains two pressure reducing valves (**1,2**). Using those valves the pressure for the two air chambers of the cylinder can be limited in comparison to the main pressure.

The setting of the valve **1** adjusts the pressure for the upper chamber and affects mainly the downward movement of the pad.

Valve 2 limits the pressure for the lower chamber and the speed for the upward pad movement.

NOTICE !

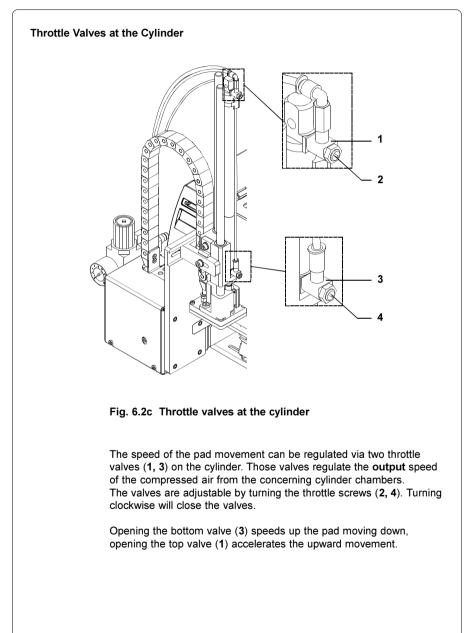
When the applicator is delivered, the pressure reducing valves are adjusted to 2.5 bar and sealed.

That way the pad speeds are limited and the risk of injury is minmized.

On the other hand this setting guarantees a certain operation also when heavy pads are used.

For that reason do not change the settings of the pressure reducing valves !





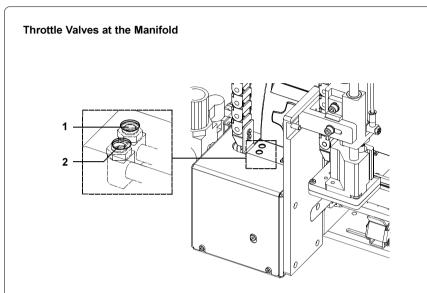


Fig. 6.2d Throttle valves at the manifold

Throttle valve (1) to regulate the vacuum

With this valve the vacuum to suck the label onto the pad can be adjusted.

Turn the throttle screw to adjust the valve. Turning clockwise will close the valve.

With the vacuum setting the final position of the label on the pad can be adjusted.

Throttle valve (2) to regulate the supporting air

With this valve the supporting air to blow the label onto the pad can be adjusted.

Turn the throttle screw to adjust the valve. Turning clockwise will close the valve.

The valve has to be tuned in such a way, that the label is blown onto the pad without whirling.

7. Operation

Standard Operation

- 1. Check all external connections before starting.
- Load the media corresponding to the instructions in the Printers Operator's Manual of the printer (chapter 'Media Loading' / 'Loading Labels'). Especially note the instructions for the peel-off mode.
- 3. Check that the transfer ribbon is loaded properly before starting to print (see Operator's Manual of the printer).
- 4. Open the shutoff valve.
- 5. Switch on the printer.



NOTICE !

Make sure that the pad is not covered by a label when switching on the printer-applicator system.

6. Before starting the first print job, press the FEED key on the printer. This generates a synchronous running. Remove the processed labels manually. After a few seconds the printer carries out a brief reverse feed and the edge of the next label is positioned at the print line.

This synchronizing also has to be carried out when the print job has been interrupted with the CANCEL key.



NOTICE !

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.

7. Start a print job.

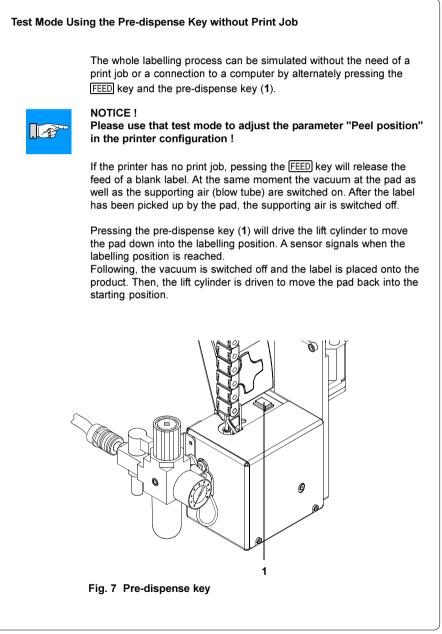


NOTICE! To operate the applicator the peel-off mode must be activated in the software !

For direct programming use the P-command (see Programming Manual)!

8. Start the labelling process via PLC interface.

If an error occurs while the applicator is operating, this is shown in the display of the printer (for types of errors and how to treat them see appendix B).



Test Mode Using the Pre-dispense Key with Print Job

By pressing the pre-dispense key (1), half cycles of the labelling process can alternately be released, provided that there is a print job.

1(st) half cycle

Pressing the key will release the print of one label. At the same moment the vacuum at the pad as well as the supporting air (blow tube) are switched on. After the label has been printed and picked up by the pad, the supporting air is switched off.

2(nd) half cycle

Pressing the key will drive the lift cylinder to move the pad down into the labelling position. The sensor signals when the labelling position is reached.

Following, the vacuum is switched off and the label is placed onto the product. Then, the lift cylinder is driven to move the pad back into the starting position.



NOTICE !

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

Adjusting the Peel Position

To optimize the taking-over of the labels by the pad there are two different parameters available for adjusting the peel position.



12

CAUTION !

A two-step method to adjust the peel position is described below. It is very important to follow that procedure for a certain start after label loading and for the re-start after error treatment !

1. Peel position in the printer configuration

First the parameter "Peel position" in the printer configuration must be adjusted (see chapter "Printer Configuration"). That parameter should be used to compensate tolerances between different printers. The setting of the parameter will be stored on the printer. Adjust the **printer** parameter "Peel position" in such a way, that the blank labels are totally peeled-off from the liner. For the adjustment use the test mode without print job and simulate the application process with the [FEED] key and the pre-dispense key.

2. Peel position in the software

A second peel-off parameter is available in the software. The software value does not replace the "Peel position" value of the printer configuration, but temporarily adjusts it for the current job. The offset values from "Peel position" and from software are added together for execution.

NOTICE !

Please make sure, that the basic adjustment described above was made before adjusting the software peel-off parameter.

Adjust the **software** parameter with a real print job in such a way, that the printed labels are totally peeled-off from the liner. It is recommended to operate the applicator in the test mode with the pre-dispense key.

Appendix A - PLC Interface

For use in a networked system the applicator is equipped with a PLC interface to start and interrupt the labelling process. It also passes on state information as well as error messages of the applicator to the system control.

The interface is placed at the backside of the applicator has a 15 pin as well as a 25 pin SUB-D connector.

The 15 pin connector has the identical pin assignment as the PLC interfaces of the Apollo an Hermes applicators.

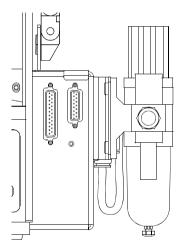


Fig. A-1 PLC interface connectors



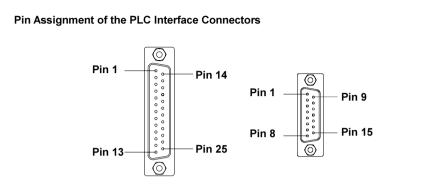


Fig. A-2 Pin Assignment of the PLC Interface Connectors

1 2					
	1	XSTRT	Input	Start signal	
	2	XSTP	Input	Stop signal (external error)	
3	3	XDREE	Input	Print first label	
4	4	XDNB	Output	Printer not ready	
5	5	XEDG	Output	No existing print job	
6	6	XSAA	Output	General error message	
7	7	XSOE	Output	Pad in starting position	
8	8	GND	Output	Ground (0V)	
9	-	XEDST	Output	Special signal X command	
10				not used	
11		XRSR	Input	External RESET (reverse line)	
12				do not connect	
13				do not connect	
14	9	XSTRTR	Input	Start signal (reverse line)	
15	10	XSTPR	Input	Stop signal (reverse line)	
16	11	XDREER	Input	Print first label (reverse line)	
17	12	XSUE	Output	Pad in labelling position	
18	13	XETF	Output	Applicator fault	
19	14	RÜL	Output	Reverse line (for all output signals)	
20	15	24P	Output	Operating voltage +24V, Si T 100mA	
21		XESP	Output	Special signal X command	
22				not used	
23		XRS	Input	External RESET	
24				do not connect	
25		/XSOE	Output	Pad in starting position (inverted)	

Table A-1 Pin Assignment of the PLC Interface Connectors

Comments on the Signals



NOTICE ! The numbers in the brackets concern to the 15 pin connector !

Pin 25 pin	Pin 15 pin	Signal	Comment	Active state
1	1		Start signal To start the cyclic labelling process.	between pin 1 and pin 14 (9) + 24V
2	2	XSTP G	 Stop signal (external error) The following functions are released to finish the print of a label and its picking-up by the pad to interrupt or to stop the beginning of the labelling process to make the pad moving back into the starting position to disregard of all following start signals if activated during the labelling phase, the display will show the message 'Host stop/ error'. (no message during print process) 	between pin 2 and pin 15 (10) + 24V
3	3		Print first label for application mode " Apply/Print " only : to release the print of the first label and its picking-up by the pad	between pin 3 and pin 16 (11) + 24V
4	4	XDNB ⊖►	Printer not ready Error message of the printer. The error type is shown on the display. After error correction, the print of the last label will be repeated.	Contact between pin 4 and pin 19 (14 is open.
5	5	XEDG ⊖►	No existing print job. State message. There is no print job currently available.	Contact between pin 5 and pin 19 (14 is open.

Pin 25 pin	Pin 15 pin	Signal	Comment	Active state
6	6	XSAA ⊖►	General error message General error message of both, printer and applicator. This message is shown when one of the two errors either XDNB or XETF occurs. Important in case that only one error signal of the applicator can be analysed from the system control.	Contact between pin 6 and pin 19 (14) is open.
7	7	XSOE ⊖►	Pad in starting position The pad is in the starting position where it picks up the label from the printer.	Contact between pin 7 and pin 19 (14) is open.
8	8	GND ⊖►	Ground (0V) CAUTION ! Pin 8 must not be connected with the ground of the PLC. Otherwise the dc decoupling would be lost.	
9		XEDST ⊖►	Special signal x command (bit 0) is controlled by the X command in the direct programming for detailed description of the X command see the programming manual	
10				
11			Reverse line of the external RESET signal	
12				
13				
14	9	XSTRTR	Reverse line of the start signal	

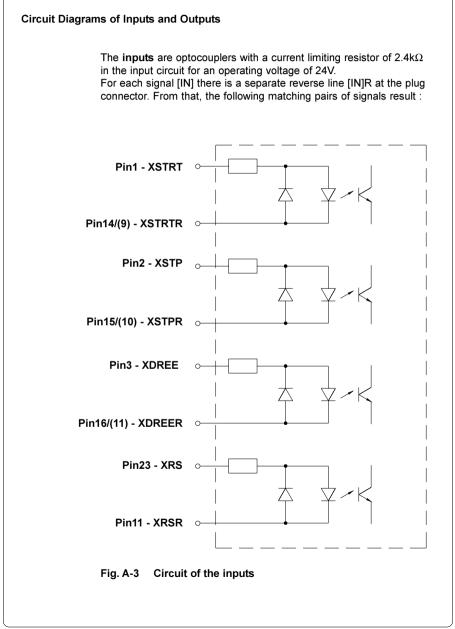
Table A-2 Comments on the signals (continuation)

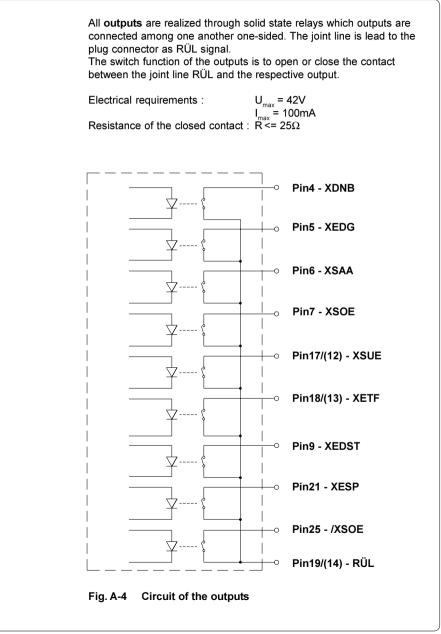
Pin 25 pin	Pin 15 pin	Signal	Comment	Active state
15	10		Reverse line of the stop signal	
16	11		Reverse line of the signal "Print first label"	
17	12	XSUE ⊖►	Pad in labelling position The pad is in the starting position where it picks up the label from the printer.	Contact between pin 17 (12) and pin 19 (14) is open
18	13	XETF ⊖►	Applicator fault Signal is active after one of the following errors occured : - pad has not reached the labelling position within 2s after the start of the downward movement - pad has not reached the starting position within 2s after the start of the upward movement - a printed label has not been picked up by the pad properly or it fell down during the movement of the pad (message of the vacuum sensor) - the label is still on the pad when the pad moves back up (message of the vacuum sensor) The type of fault is shown in the display of the printer. After fault correction, the print of the last label printed before the fault occured will not be repeated .	Contact between pin 18 (13) and pin 19 (14) is open
19	14	RÜL ⊖►	Reverse line for all output signals	

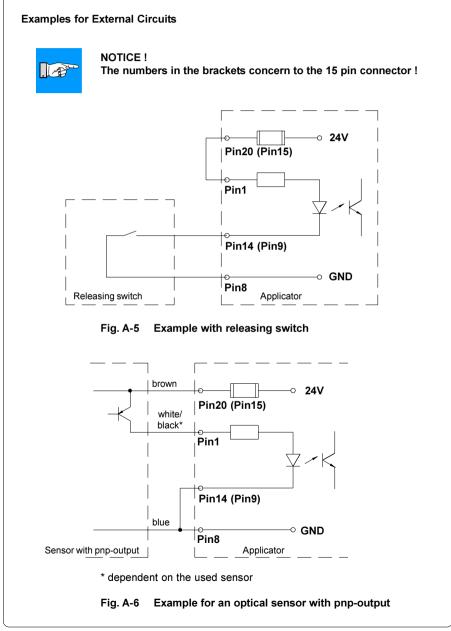
1

Pin 25 pin	Pin 15 pin	Signal	Comment	Active state
20	15	24P ⊖►	Operating voltage +24V, Si T 100mA The applicator system provides an operation voltage of 24 V CAUTION ! You must not apply any external voltage on pin 20(15) ! The operating voltage allows the use of the applicator without being part of a networked system. Example : To generate the start signal by a foot switch.	
21		XESP ⊖►	Special signal x command (bit 3) is controlled by the X command in the direct programming for detailed description of the X command see the programming manual	
22				
23		XRS	External RESET to reset printer and applicator	between pin 23 and pin 11 +24V
24				
25		/XSOE ⊖►	Pad in starting position (inverted) The pad is in the starting position where it picks up the label from the printer.	Contact between pin 25 and pin 19 is closed

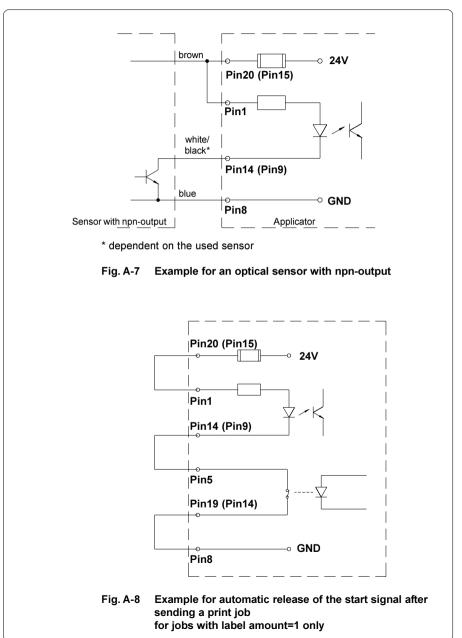
Table A-2 Comments on the signals (continuation)

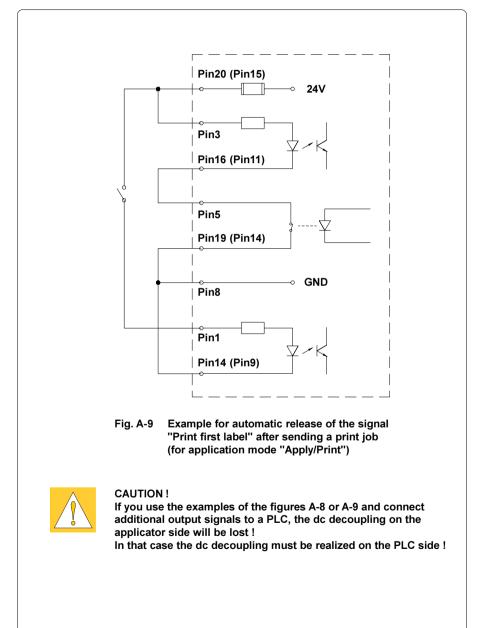






Applicator - PLC Interface





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Appendix B - Error Messages

Error Messages of the Printer

Detailed information about printer errors (e.g. 'Paper out', 'Ribbon out', etc.), their causes and correction methods can be found in the Operator's manual for the printer (Appendix C).



NOTICE !

With the installation of an applicator the error treatment expands. This means in particular, that after correcting the error and <u>before</u> the correction is quit with the <u>PAUSE</u> key, an additional label feed has to be released using the <u>FEED</u> key.

This synchronizes the process of printing and labelling. Possibly dispensed blank labels have to be removed manually. After quitting the error message the label caused the error will be printed once more.

Error Messages of the Applicator

The following table gives an overview of error messages and their possible causes. It also suggests methods to resolve the problem. After error correction, always quit the error message of the applicator

with the <u>PAUSE</u> key. To reprint the label where the applicator error occurred, a new print job has to be released.

Resuming the Operation in the Application Mode "Apply/Print"

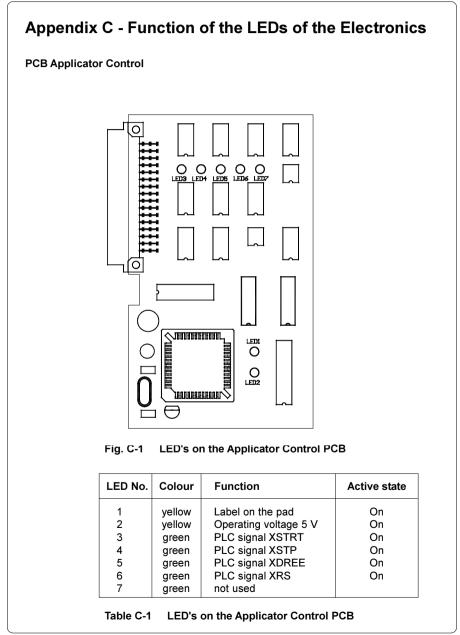
In the application mode "Apply/Print" a printed label must be picked by the pad before starting the cyclic operation.

Therefore after an error first the signal "Print first label" must be sent or the pre-dispense key must be pressed before the cyclic operation can be started.

Applicator - Error Messages

Error Message	Possible cause	Fehlerbehandlung
Air pressure ins.	Compressed air is switched off.	Check the shutoff valve
Host stop/ error	Labelling process has been Interrupted by an stop signal via PLC interface	Label the product manually if necessary
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	Check the pneumatic adjustments (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
Refl. sensor blk.	There has been no change of the switch state at the upper control sensor (at the cylinder) between the start of the labelling process and the signal from the labelling position sensor	Check the sensor (service)
Upper position	Pad has not reached the starting position within 2s after the pad has moved back; or pad has left starting position unauthorized	Check the pneumatic adjustments (esp. the upper the throttle valve of the cylinder); Label the product manually
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)

Table B-1 Error Messages of the Applicator



Applicator - Function of the LEDs of the Electronics

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EU - Conformity Declaration

We declare herewith that as a result of the manner in which the machine designated below was designed, the type of construction and the machines which, as a result have been brought on to the general market comply 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 machine as designated below, this statement shall thereby be made invalid.

Description Applicator

Applied EU Regulations and Norms:

- EC Machinery Regulations
- Machine Safety
- EC Low Voltage Regulations
- Data and Office Machine Safety
- EC Electromagnetic Compatibility Regulations
- Threshold values for the Interference of Data Machines
- Limits for harmonic current emission
- Limits of voltage fluctuation and flicker
- Immunity characteristics-Limits and methods of measurement
- Immunity for industrial environments

Signed for, and on behalf of, the Manufacturer :

cab Produkttechnik Sömmerda Gesellschaft für Computerund Automationsbausteine mbH 99610 Sömmerda

Sömmerda, 30.01.04

Oferin and

Erwin Fascher Managing Director

Type: Tamp Applicator A1000

98/37/EU EN 292-2:1991+A1:1995

73/23/EEC EN 60950-1:2001

89/336/EEC EN 55022:1998

EN 61000-3-2:2000 EN 61000-3-3:1995+A1:2001 EN 55024:1998

EN 61000-6-2:2001

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