

User manual

UM EN THERMOMARK ROLL

Thermal Transfer Printer for Labels and Continuous Media



User manual

Thermal Transfer Printer for Labels and Continuous Media

2012-01-30

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Version: 02

Order No.: -

This user manual is valid for:

Designation Order no.
THERMOMARK ROLL 5146477
THERMOMARK ROLL AR 5146749

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Note on the print media

The result of the print depends essentially on the suitable combination of material and print ribbon.



NOTE: Use suitable print media

A low-quality ink ribbon can lead to premature wear on the printhead and result in a poor print image. Use only print media from Phoenix Contact.

You can find suitable print media in the Phoenix Contact catalog.

Change language of Touch Screen

The language of the Touch Screen is set to English by default. To select a different language, proceed as follows:

- Touch to open the menu.
- Select then for the settings.
- With you access the regional settings.
- Touch the symbol.
- Use the horizontal arrows to select your language.
- Confirm your selection with
- Touch to return to the menu.

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Technical data	
Resolution	300 dpi x 300 dpi (12 points/mm x 12 points/mm)
Print mode	Thermal transfer
CPU	32 bit/400 MHz
Material sensor	
Position	Center
Туре	Gap sensor
Detection	Label gap, black mark and punch-hole mark
Print speed	30 mm/s 125 mm/s
Print length	At least 5 mm, maximum 1000 mm
Print width	Maximum 104 mm
Print medium	
Outside diameter of the roll of labels:	Maximum 152 mm
Internal core diameter	38.1 mm 76 mm
nk ribbon	
Length	Maximum 300 m
Outside diameter of the ink ribbon reel:	Maximum 68 mm
Internal core diameter	25.4 mm
Ink side	Outside
nterfaces	USB 2.0, Full speed slave, Ethernet 10/100Base-T
Display and Operation	Touch display with 160 x 255 pixels, 96.31 mm diagona
Voltage	100 V AC 240 V AC, 50/60 Hz, PFC
Power	Maximum 100 W
Temperature	
Operation	+5 °C +35 °C
Bearings	0 °C +60 °C
Transport	-25 °C +60 °C
Humidity	
Operation	10% 85%, not condensing
Bearings	20% 80%, not condensing
Transport	20% 80%, not condensing
Approvals	5146477: CE, FCC class A, UL, CB
	5146749: CE, FCC class A, UL, CB, S-Mark
Dimensions (H x D x W)	189 mm x 320 mm x 253 mm
Weight	3.5 kg
Optional extensions	
Cutter	THERMOMARK ROLL-CUTTER
Perforation cutter	THERMOMARK ROLL-CUTTER/P
Media hub	THERMOMARK ROLL-ERH

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1.1 **Product Description**

The device is an industrial thermal transfer printer for printing labels and continuous media.

1.2 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. \triangleright
- * Option (accessories, peripheral equipment, special fittings).
- Zeit Information in the display.

1 Introduction §

1.3 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 printer is intended exclusively for printing suitable materials.
 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 is included in the scope of delivery on DVD, and can also currently be found in the Internet.

1.4 Safety Instructions

- The device is configured for voltages of 100 to 240 V AC. It only has to be plugged into a grounded socket.
- 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.
- 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.
- If the device is operated with the cover open, ensure that people's clothing, hair, jewelry etc. do not come into contact with the exposed rotating parts.
- The device or parts of it can become hot while printing. Do not touch during operation, and allow to cool down before changing material and before disassembly.
- Risk of crushing when closing the cover. Touch the cover at the outside only. Do not reach into the swivel range of the cover.
- Perform only those actions described in this operating manual.
 Work going beyond this may only be performed by trained personnel or service technicians.

10 1 Introduction

- 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.
- The maximum sound pressure level is less than 70 dB(A).



Danger!

Danger to life and limb from power supply.

Do not open the device casing.

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 printer enables it to be easily disassembled into its component parts.

Send the parts for recycling.



The electronic circuit board of the device is equipped with a lithium battery.

► Take old batteries to collection boxes in shops or public waste disposal centers..

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2.1 Device Overview

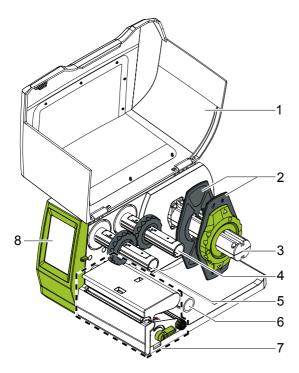
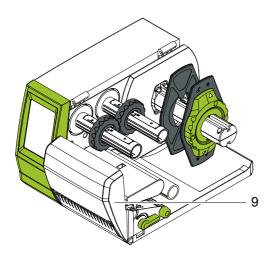


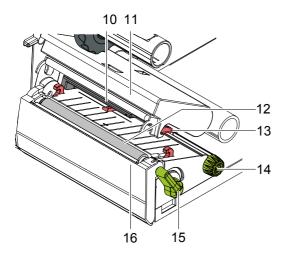
Fig. 1 Device with Tear-off Plate

- 1 Cover
- 2 Margin stops
- 3 Roll retainer
- 4 Ribbon supply hub
- 5 Ribbon take-up hub
- 6 Belt roller
- 7 Print mechanics
- 8 Touchscreen display



9 Cutter or Perforation Cutter

Fig. 2 Device with Cutter or Perforation Cutter



Print Mechanics Fig. 3

- 10 Label sensor
- 11 Printhead retainer with printhead
- 12 Print roller
- 13 Guides
- 14 Knob for adjusting the guides
- 15 Lever for locking the printhead 16 Tear-off plate

2 Installation 13

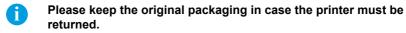
2.2 Unpacking and Setting-up the Printer

- ▶ Lift the label printer out of the box and set it up on a level surface.
- ▶ Check label printer for damage which may have occurred during transport.
- Check delivery for completeness.

Contents of Delivery:

- Label Printer
- Power Cable Type E+F
- USB Cable
- · Operator's Manual
- DVD with application software CLIP PROJECT, driver and documentation
- · Transfer ribbon
- · Continuous labels on roll

Notice!





When transporting the printer remove the transfer ribbon and media.



Attention!

The device and printing materials will be damaged by moisture and wetness.

Set up label printers only in dry locations protected from splash water.

2.3 **Connecting the Device**

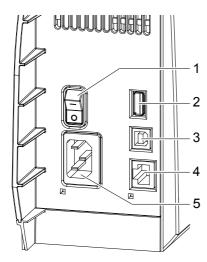


Fig. 4 Connections

- Power switch
- 2 USB master ports for keyboard, scanner, or memory stick
- 3 USB high-speed slave port
- Ethernet 10/100 Base-T
- Power connection jack

2.3.1 Connecting to the Power Supply

The printer is equipped with a wide area power unit for a supply voltage of 100 V to 240 V.

- 1. Check that the device is switched off.
- 2. Plug the power cable into the power connection jack (5).
- 3. Plug the power cable into a grounded socket.

2 Installation 15

2.3.2 Connecting to a Computer via USB



Attention!

Inadequate or no grounding can cause malfunctions during operations.

Ensure that all computers and cables connected to the label printer are grounded.

In order to connect the printer to a USB interface a printer driver must be installed. The adequate driver for your device can be found on the DVD included in the contents of delivery or on the internet at www.phoenixcontact.net/catalog.

- Switch on computer.
- Terminate all running tasks.
- Switch on THERMOMARK ROLL.
- Connect computer with THERMOMARK ROLL using the included USB cable.
- ▶ Insert DVD with the driver software into the DVD drive.
- ▶ The Windows installation wizard is started automatically.
- Follow the instructions on the screen.
- When the error message "Windows logo test failed" appears, still continue the installation.

After a successful installation an icon for the THERMOMARK ROLL appears in the windows system directory "Printer".

CLIP PROJECT

Afterwards, configure the THERMOMARK ROLL in the planning and marking software CLIP PROJECT in the module "Marking".

► Add the THERMOMARK ROLL as a new printer in CLIP PROJECT "Marking" under "File... configure output device...".

2.3.3 Connecting to a Network via Ethernet

The integrated Ethernet interface allows the operation of the printer in a network. To connect the printer to a network outlet a patch cable with a RJ45 plug for 10Base or 100Base-T is necessary.



Attention!

When connecting the printer to the network a shielded cable must necessarily be used.

Connect computer to a printer by a suitable cable.

16 2 Installation

2.4 Switching on the Device

When all connections have been made:

Switch the printer on at the power switch (1). The printer performs a system test, and then shows the system status READY in the touchscreen display.

If an error occurs during the system test, the symbol $\widehat{\underline{\ }}$, Critical fault and type of error are displayed.

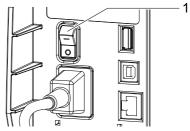


Fig. 5 Power Switch

3 Touchscreen Display

3.1 Structure of the Touchscreen Display



The touchscreen display (1) indicates the current status of the printer and the print job, indicates faults and shows the printer settings in the menu.

By selecting the buttons on the touchscreen display (1) settings can be made.

Fig. 6 Touchscreen Display

3.2 Operating the Touchscreen Display

The touchscreen display is operated directly by touch:

- To open a menu or select a menu item lightly touch the corresponding symbol.
- · To scroll in lists slide finger up or down on the display.

3.3 Symbols on the Start Display

Symbol	Status	Function			
	Ready	To offline menu			
	Error				
$\overline{\mathbb{Z}}$	Ready	Feeds a blank label			
Ö	Ready	After the end of a print job, reprint the last label Interrupt print job, printer goes into "Pause" state			
	Printing label				
	Pause	Continue the print job,			
	Error	printer goes into "Printing label" state			
X	Ready	Delete internal memory, the last label can no longer be reprinted.			
	Printing label	Cancel current print job and delete all print jobs.			
	Pause				
	Error				

Table 1 Symbols on the Start Display

3.4 Printer States

State	Display	Description
Ready	Ready and the symbols and	The printer is in the ready state and can receive data or print labels.
Ready (after first print)	Ready and the symbols	The printer is in the ready state and can receive data.
Printing Label	Label description and the number of the printed label in the print job and the symbols	The printer is currently processing an active print job. Data can be transmitted for a new print job. The new print job will start when the previous one has finished.
Pause	Pause and the symbol	The printing process has been interrupted by the operator.
Error	Error and and the type of error, the label description and the number of labels still to be printed	An error has occurred.
Critical error	Critical fault and the type of error Display flashes red	 An error occurs during the system test. Switch the printer off and then on again at the power switch. Call Service if the fault occurs persistently.
Power Save Mode		If the printer is not used for a lengthy period, it automatically switches to power save mode. To exit power save mode: Touch touchscreen display.

Table 2 Printer States

3 Touchscreen Display

3.5 Configure Ethernet Interface

The Ethernet interface can be configured under menu item **Setup** > **Interfaces**.

The following parameters are necessary for operating the printer in a network. Contact your network administrator if required.

- IP address
- · Subnet mask
- · if necessary gateway

Alternatively, the Ethernet configuration is also available via DHCP server. In this case, make sure that the transmitted configuration is always the same.

Configure Ethernet interface at the printer

- ► Select .
- ► Select Setup.
- Select Interfaces.
- Select Ethernet.
- ▶ Select setting options.
- ► Select desired setting with ► 4.
- ► Confirm selection with or cancel selection with
- ► Return to start screen with

3.6 Perform Test Print

- ► Select .
- ➤ Select Test.
- ► Select EML.
- Test print starts.

4.1 Loading Continuous Media from Roll

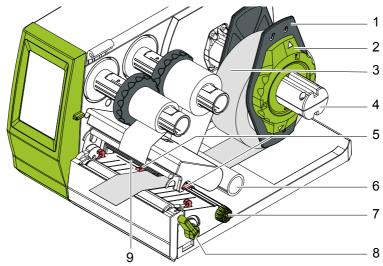


Fig. 7 Loading Continuous Media from Roll

- 1. Turn ring (2) counterclockwise, so that the arrows points to the symbol on and thus release the margin stop (1) from the roll retainer (4).
- 2. Load label roll (3) on the roll retainer (4) in such a way that the printing side of the labels is visible from above.
- 3. Re-mount the margin stop (1) and push against the label roll as far as possible.
- 4. Turn ring (2) clockwise, so that the arrow points to the symbol \odot , and thus fix the margin stop(1) on the roll retainer (4).
- 5. Turn lever (8) counterclockwise to open printhead.
- 6. If the printer is equipped with a cutter or perforation cutter, fold it down.
- 7. Position guides (5) by turning the knob (7) so that they are several millimeters wider than the material.
- 8. Position material below the belt roller (6) and guide it through the print unit.



Attention!

- ► Guide material through the print unit below the label sensor (9).
- 9. Move guides (3) closely to the edges of the material without clamping the material.
- 10. If the printer is equipped with a cutter/perforation cutter, guide material through the cutter and fold cutter back to the printing unit.
- 11. Press printhead retainer down and turn lever (8) clockwise to lock the printhead.

4.2 Loading Fanfold Labels

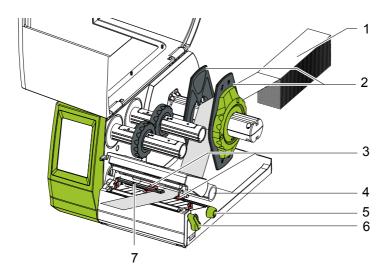


Fig. 8 Loading Fanfold Labels

- 1. Position label stack (1) behind the printer.
- 2. Guide material below the roll retainer (2) to the printing unit. Ensure that the printing side of the labels is visible from above.
- 3. Turn lever (6) counterclockwise to open printhead.
- 4. If the printer is equipped with a cutter or perforation cutter, fold it down.
- 5. Position guides (3) by turning the knob (5) so that they are several millimeters wider than the material.
- 6. Position material below the belt roller (4) and guide it through the print unit.



Attention!

- ► Guide material through the print unit below the label sensor (7).
- 7. Move guides (3) closely to the edges of the material without clamping the material.
- 8. If the printer is equipped with a cutter/perforation cutter, guide material through the cutter and fold cutter back to the printing unit.
- 9. Press printhead retainer down and turn lever (6) clockwise to lock the printhead.

4.3 Loading Transfer Ribbon

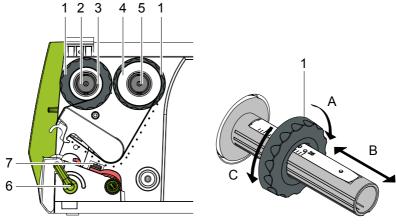


Fig. 9 Transfer Ribbon Feed Path

Fig. 10 Guide Adjustment

Notice!

- With direct thermal printing, do not load a transfer ribbon; if one has already been loaded, remove it.
 - 1. Clean the printhead before loading the transfer ribbon (\triangleright 7.2 on page 28).
 - 2. Turn lever (6) counterclockwise to open the printhead.
 - 3. Set guide (1) on both hubs to the correct transfer ribbon width (Fig. 10):
 - Hold hub and unlock guide (1) by turning it in direction A.
 - Slide guide in direction B and adjust guide to ribbon width using the scale.
 - Hold hub and lock guide by turning it in direction C.
 - 4. Load transfer ribbon (4) on the hub (5) until it reaches the guide in a way that the color coating of the ribbon faces the opposite side of the printhead after being loaded.

Notice!

- To wind the ribbon a ribbon core (3) is needed that must be at least equal in width to the supply ribbon.
 - ▶ When changing the transfer ribbon use the empty supply ribbon core for winding the next ribbon.
 - 5. Adjust position of the guide on the take-up hub to the width of the ribbon core (3) and push ribbon core on the take-up hub (2).
 - 6. Guide transfer ribbon though the printing unit as shown in Fig. 9.

Attention!

Guide transfer ribbon over the label sensor (7).

4 Loading Material

- 7. Secure starting end of the transfer ribbon to the ribbon core (3) using adhesive tape. Ensure counterclockwise rotation direction of the transfer ribbon take-up hub.
- 8. Turn transfer ribbon take-up hub (2) counterclockwise to smooth out the feed path of the transfer ribbon.
- 9. Press printhead down and turn lever (6) clockwise to lock printhead.

5.1 Cutter/Perforation Cutter

As an option a cutter (THERMOMARK ROLL-CUTTER, Art.-No.: 5146422), with which labels can be cut automatically is available. This cutter is also suitable for cutting endless labels.

For marking sleeves a perforation cutter (THERMOMARK ROLL-CUTTER/P, Art.-No.: 5146435) is available.

Dismount Tear-Off Plate

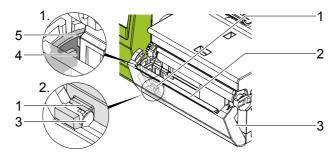


Fig. 11 Dismount tear-off plate

- 1. Fold down cover (3) with tear-off plate (2) until the slot (4) at the latch-hook (5) is visible.
- 2. Lift cover (3) from the retainer (1).

Mount Cutter/Perforation Cutter

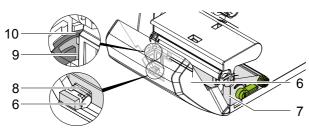


Fig. 12 Mount cutter/perforation cutter

- 3. First, put the latch-hook (10) of the cutter with the slot (9) into the guiding of the retainer (7).
- 4. Push cutter (6) down into the retainers (8).
- 5. Fold up cutter (6) until it snaps in at both sides of the retainer (7).

5 Option 25

5.2 External Supply Hub

As an option an external supply hub (THERMOMARK ROLL-ERH, Art.-No.: 5146448), with which media rolls with bigger diameters can be processed is available.

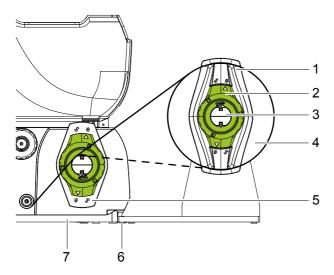


Fig. 13 Load Material to External Supply Hub

Mount External Supply Hub

- 1. Position External supply hub behind the printer.
- 2. Lift printer slightly and position ground plate (7) on both hooks (6) of the external supply hub.

Load Material

- 2. Load label roll (4) on the roll retainer (3) in such a way that the printing side of the labels is visible from above.
- 3. Re-mount the margin stop (1) and push against the label roll as far as possible.
- 4. Turn ring (2) clockwise, so that the arrow points to the symbol 🕞, and thus fix the margin stop (1) on the roll retainer (3).
- 5. Adjust guide (5) of the printer to the material width.
- 6. Guide material over roll retainer of the printer and load into printing unit (▷ 4.1 on page 20).



Attention!

Printhead damage caused by improper handling!

- ▶ Do not touch the underside of the printhead with the fingers or sharp objects.
- ▶ Ensure that the labels are clean.

The printer is ready for operation when all connections have been made and labels and the transfer ribbon have been loaded.

6.1 Printing in Tear-off Mode

After printing the label is torn-off manually. For this the printer is equipped with a tear-off plate.

6.2 Printing in Cutting Mode

The printer version with cutter or perforation cutter is used to cut off or perforate labels and endless material automatically after printing.

Notice!



The cutting mode must be activated in the software.

7.1 Cleaning Instructions



Danger!

Risk of death via electric shock!

Disconnect the printer from the power supply before performing any maintenance work.

It is important to clean the thermal printhead regularly. This guarantees a consistently good printed image and reduces wear of the printhead.



Attention!

The printer can be damaged by aggressive cleansers.

- ► Do not use abrasive cleaners or solvents for cleaning the external surfaces or modules.
- Remove dust and paper fluff from the print area with a soft brush or vacuum cleaner.
- ▶ The cover of the printer can be cleaned with a standard cleanser.

7.2 Cleaning the Printhead

Cleaning intervals:

direct thermal printing - every media roll change thermal transfer printing - every ribbon roll change

Substances may accumulate on the printhead during printing and adversely affect printing.



Attention!

Printhead can be damaged!

- ▶ Do not use sharp or hard objects to clean the printhead.
- ▶ Do not touch protective glass layer of the printhead.



Attention!

Risk of injury from the hot printhead line.

Ensure that the printhead has cooled down before starting cleaning.

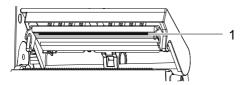


Fig. 14 Printhead Line

- 1. Lift the printhead.
- 2. Remove labels and transfer ribbon from the printer.
- 3. Clean printhead line (1) with rubbing alcohol and a soft cloth.
- 4. Allow printhead to dry for 2–3 minutes before commissioning the printer.

7.3 Cleaning or Replacing the Print Roller

Accumulations of dirt on the print roller may impair the media transport and the print quality.

Attention!



Damage of the print roller.

▶ Do not use sharp objects (knives, screwdrivers, etc.) to clean the printhead.

Notice!



When large amounts of narrow and thick media (10 mm profiles, narrow endless shrink sleeve) are used, the print roller might be deformed and a result in a worsened printing for labels.

After approximately 24 h the deformation will disappear.

For these applications two separate print rollers should be used for different labels.

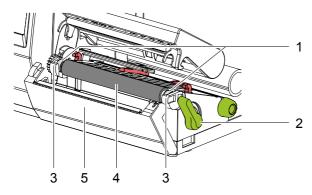


Fig. 15 Print Roller

- 1. Turn lever (2) counterclockwise to open printhead.
- 2. Remove material and transfer ribbon from the printer.
- 3. Fold down cover (5) with tear-off plate, cutter or perforation cutter.
- 4. Lift print roller (4) from its retainers (3).
- 5. Remove deposits with roller cleaner and a soft cloth, or replace it if the roller appears damaged.
- 6. Push roller with bearings (1) into the retainer (3) until they click into place.
- 7. Fold up cover (5) with tear-off plate, cutter or perforation cutter.

7.4 Cleaning Cutter/Perforation Cutter and Replace Blades



Warning!

Disconnect printer from electrical outlet to prevent accidental blade movement.



Warning!

Risk of injury! The cutter blades are sharp!



Notice!

When cutting through the label material instead of the label gap remains of adhesive may accumulate on the blades. If operating in backfeed mode, such remains of adhesive may be deposited on the drive roller as well.

▶ Clean the drive roller and the cutter blades often.

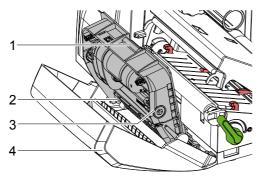
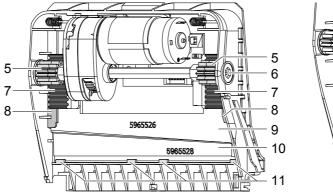


Fig. 16 Dismount Cutter

- 1. Fold down cutter.
- 2. Push release push button (1) and lift blade unit (3) from the cover (4).
- 3. If the blades are only slightly dirty it is sufficient to clean them with a soft cloth and continue with point 5.



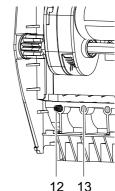


Fig. 17 Replace Blades

Fig. 18 Springs

- 4. If the blades are very dirty with residues of adhesive or if they are worn, change blades:
 - ► Turn shaft (6) clockwise using a torx wrench TX10 until the gear racks (7) cannot engage anymore.
 - ▶ Pull upper blade (9) out of the guides (8).
 - ► Take out lower blade (10).
 - ▶ Remove deposits on the blades with label remover and a soft cloth.
 - ▶ If necessary, replace blades.
 - ▶ Push lower blade down into the guides (11).
 - ▶ If necessary, put springs (12) back into spring retainers (13).
 - ▶ To re-mount the upper blade push lower blade down on the cover and push upper blade into the guide until the gear racks (7) can engage with the gear wheels (5).
 - ► Turn shaft (6) counterclockwise using a torx wrench TX10 until the blade reaches the upper limit.
- 5. Fit blade unit (3) according to Fig. 16 into the axes (2) and fold it towards the cover (4) until it snaps in.
- 6. Fold cutter/perforation cutter up to the print unit.

8.1 Problem Solution

Problem	Cause	Remedy
Print image has smears or voids	Printhead is dirty	Clean the printhead
	Print roller is dirty	Clean the print roller
	Print roller is worn/ damaged	Change the print roller
Printer transports labels but does not print them.	Transfer ribbon inserted incorrectly	Check transfer ribbon feed path and orientation of the coated side and correct if necessary. Clean the printhead

Table 3 Problem Solution

8.2 Error Messages and Fault Correction

Error message	Cause	Remedy
Out of	Out of transfer ribbon	Insert new transfer ribbon.
ribbon	Transfer ribbon melted during printing	Cancel current print job. Change the heat level via software. Clean the printhead ▷ 7.2 on page 28 Load transfer ribbon Restart print job.
	The printer is loaded with thermal labels, but the software is set to transfer printing	Cancel current print job. Set software to direct thermal printing. Restart print job.
Device not conn.	Programming addresses a non-existent optional device	Either connect this optional device or correct the programming.
No label found	There are labels missing on the label material	Press repeatedly until printer recognizes the next label on the material.
	The label format as set in the software does not correspond with the real label format	Cancel current print job. Change the label format set in the software. Restart print job.
	Printer is loaded with continuous paper, but the software is set on labels	Cancel current print job. Change the label format set in the software. Restart the print job.
Head open	Printhead not locked	Lock printhead.
Head too hot	Printhead is overheated	After pausing the print job will be continued automatically. If the fault recurs repeatedly, reduce the heat level or the print speed via software.
Material too thick	Material too thick or hard, cutter does not cut through material but can return to initial position.	Cancel print job. Check material.

34 8 Fault Correction

Error message	Cause	Remedy
Cutter blocked	Cutter cannot return into its home position and stays in an undefined position Material too thick or hard, cutter does not cut through material but can return to initial position.	Switch off the printer. Remove material. Switch on the printer. Restart print job. Check material
	No cutter function	Switch the printer off and then on. If error recurs call service.
Network Error	e.g. No DHCP server, no link, no SMTP server, no Timeserver	Please contact your network administrator.
Out of paper	Out of label roll	Load labels.
	Error in the paper feed, Material is not positioned under the label sensor.	Check paper feed.
Protocol error	Printer has received an unknown or invalid command from the computer, e.g. the command to perform a cut although a cutter is not mounted	Select to skip the command or select to cancel the print job.
Buffer overflow	The input buffer memory is full and the computer is still transmitting data.	Use data transmission via protocol (preferably RTS/CTS).
Memory overflow	Current print job contains too much information, e.g. selected font, large graphics	Cancel current print job. Reduce amount of data to be printed.
System Error	e.g. FPGA defective, invalid setup, voltage error	Switch the printer off and then on. Please note error details shown on the display. If error recurs call service.

Table 5 Error Messages and Fault Correction

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9.1 EC Declaration of Conformity



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		G-Konformi		
	I	EC-Declaration	า of Confor	mity
Hersteller / Manufact	urer: PHC	ENIX CONTACT G	/IBH & CO. KG	
Anschrift / Address:	Flac	hsmarktstraße 8, D-3	2825 Blomberg,	, Germany
Produktbezeichnung / P	Product descrit	otion: THERMOMAR	K ROLL	
Artikelbezeichnung, / Article d Artikel-Nr. / Article no.)	escription,	5146477		
as vorstehend bezeichr	rein / The abo	ve mentioned product i	chen Anforderunge s in line with the e	en der nachfolgenden Richtlinie(n) und dere ssential requirements of the below
2004/108/EC		linie (Elektromagne		
2006/95/EC	Niederspa	nnungs-Richtlinie (l ge <i>Directive (LVD)</i>	<u>'</u>	
ür die Beurteilung der Ü or evaluation of the con				n herangezogen:
EN 60950-1:2006/A	11:2009	EN 61558-1:2005	+ A1	EN 55022:2006 + A1
EN 55024:1998 + A	1 + A2	EN 61000-3-2:200	06 + A1 + A2	EN 61000-3-3:2008
EN 61000-6-2:2005				
ertifikate einer benannte	en Stelle / Cer	tificates by a notified bo	ody:	
Anschrift / Address: Referenz / Reference:				
Anschrift / Address:				11111
Referenz / Reference:				
Die letzten beiden Ziffern The last two figures of th nur einzutragen, bei der Ni	ne year in whic	the CE marking was	applied:	11
Diese Erklärung gi	It auch für die	im Anhang aufgelistete the products listed in th	n Produkte. (wenn	angekreuzt)
iese Erklärung bescheinigt usicherung von Eigenschaf his declaration certifies the	die Übereinstin ften. Die Sicherl conformity with	nmung mit den wesentlich neits- und Einbauhinweise the essential requirement	en Anforderungen de der mitgelieferten P s of the indicated dir	er genannten Richtlinie(n), enthält jedoch keine roduktdokumentation sind zu beachten. rective(s), it does not, however, covenant any intation have to be observed.
Blomberg, 2011-12-16	Busin	Sandra Mocke ess Unit Industrial Connec d of Development/PM MAI Ansprechpartner / contact perso	RKING system	Dirk Görlitzer Business Unit Industrial Connection Technolog Vice President, Head of the Business Unit Zeichnungsbereitiglier I aufürzed signatory
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Anhang zur EG-Konformitätserklärung Annex on EC Declaration of Conformity vom / dated 2011-12-16

Produktbezeichnung / Product descriptio	THERMOMARK ROLL	
(Artikelbezeichnung, / Article description, Artikel-Nr. / Article no.)	5146477	
	rungen der Richtlinie(n) wird auch für folgende Produkte bescheinigt: s of the directive(s) is also certified by the declaration for following products.	
Artikel-Nr. / Article no.	Artikelbezeichnung / Article description	
5146749	THERMOMARK ROLL AR	

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9.2 FCC

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user may be required to correct the interference at his own expense.

9.3 GPL Code Statement

This product includes software code developed by third parties, including software code subject to the GNU General Public License ("GPL") or GNU Lesser General Public License ("LGPL"). As applicable, the terms of the GPL and LGPL, and information on obtaining access to the GPL Code and LGPL Code used in this product, are available to you at:

http://www.phoenixcontact.net/catalog under the description of the printer.

The GPL Code and LGPL Code used in this product is distributed WITHOUT ANY WARRANTY and is subject to the copyrights of one or more authors. For details ,see the GPL Code and the LGPL Code for this product and the terms of the GPL and LGPL.

Written Offer to GPL Source Code:

Whereas such specific license terms entitle you to the source code of such software, PHOENIX CONTACT will provide upon written request via email and/or traditional paper mail the applicable GPL source code files via CD-ROM for a nominal cost to cover shipping and media charges as allowed under the GPL and LGPL.

Please direct all inquiries to:
PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
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DEUTSCHLAND

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