NOVEXX
SOLUTIONS

USER MANUAL

Rewinder 2000
Option

Using the Documentation

> **CAUTION!**
> Read the user manual before operating the device for the first time.
> The user manual is an essential part of the device it belongs to.
> The user manual is to be stored at the machine operating location and made accessible to the operator.
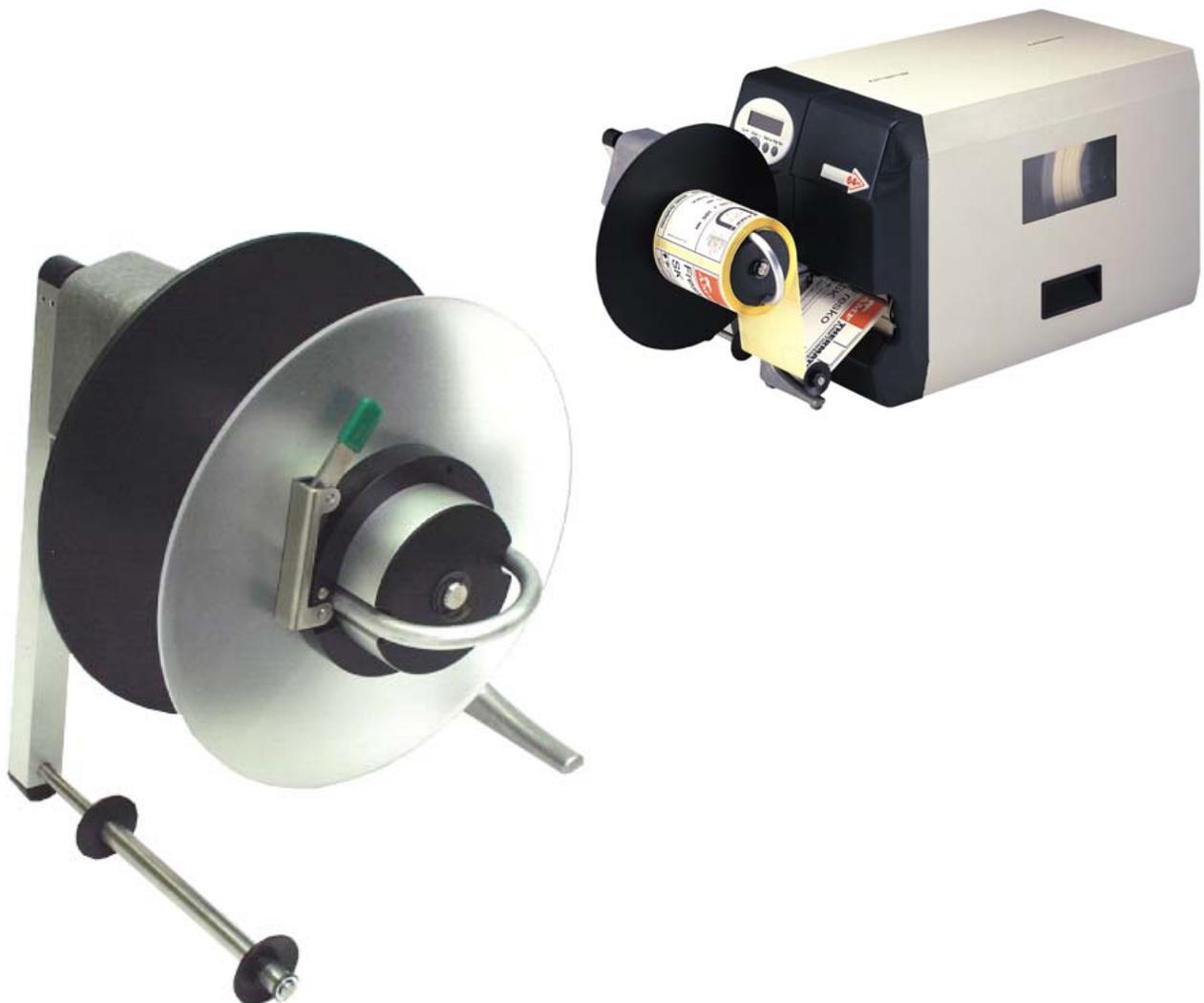
Copyright

Documentation structure

Datapool, documentation object

The overall documentation is a part of the datapool, which is provided for the printer user and the service personnel on CD or other electronic media.

Datapool

This datapool includes:

– this printer documentation,
– the printer drivers

Printer doc

Here the overall documentation (abbr.: documentation) is to be understood as the printer documentation.

The printer documentation contains all the information which is required for using the product. Using the product means preparing it for use, putting it into operation, setting it up, the operation, servicing and maintenance, fault searching and the service for optional extensions, settings and repairs.

Doc object

The documentation object includes

– various printer families (printer series), consisting of different printer models (devices),
– standard and optional additions for the printer (options) and
– the printer language Easy Plug.

Documentation concept

The wide range of products which must be documented and the demand for documentation distribution and use, both in electronic form (CD/Internet, PC) as well as in paper form, have resulted in the following documentation concept:

Structure

The documentation consists of

• topic sections (generally comparable to chapters),

• manuals (handbooks, instructions),

• link pages and the

• start page (start page of the CD documentation).

Subject section　Thematically-related subject contents are described in each topic section. A topic section is the smallest unit of information with its own

– page numbering,
– header bar,
– list of contents,
– index,
– device classification and
– its own revision status.

Subject sections form the basis of the manual. A topic section can be simultaneously assigned to several manuals. Subject sections are in one, in some cases two, languages.

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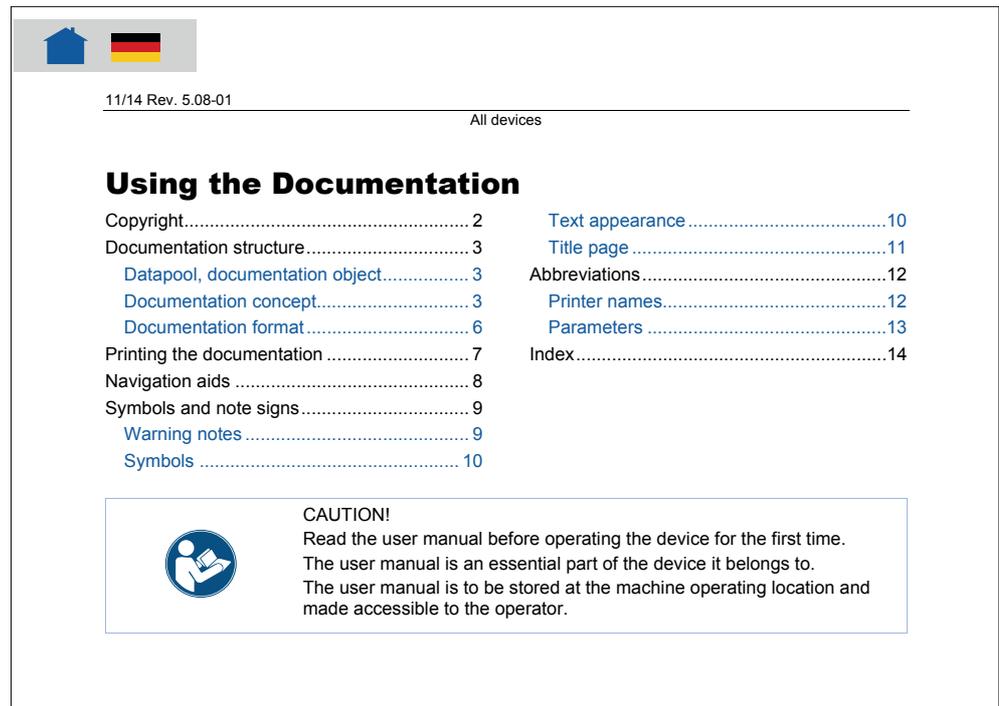
Fig. 1　Example: First page of topic section "Using the Documentation"

Manual　A manual is composed of different topic sections. The following features characterize a manual:

– Title page with a list of contents, device classification and revision status (see Fig. 1).

– The list of contents contains the designations of the topic sections and also serves as a link distributor to these topic sections.

– The contents of a manual refer to a certain device, a device family or an option (documentation object).

– A manual is assigned to a certain language and only contains topic sections in this language.

– A manual is assigned to a certain user group. There are *Service Manuals* (mainly for the Service), *User Manuals* (mainly for the user) and just *Manuals* (for Service and user).

Device classification

Topic sections

USER MANUAL
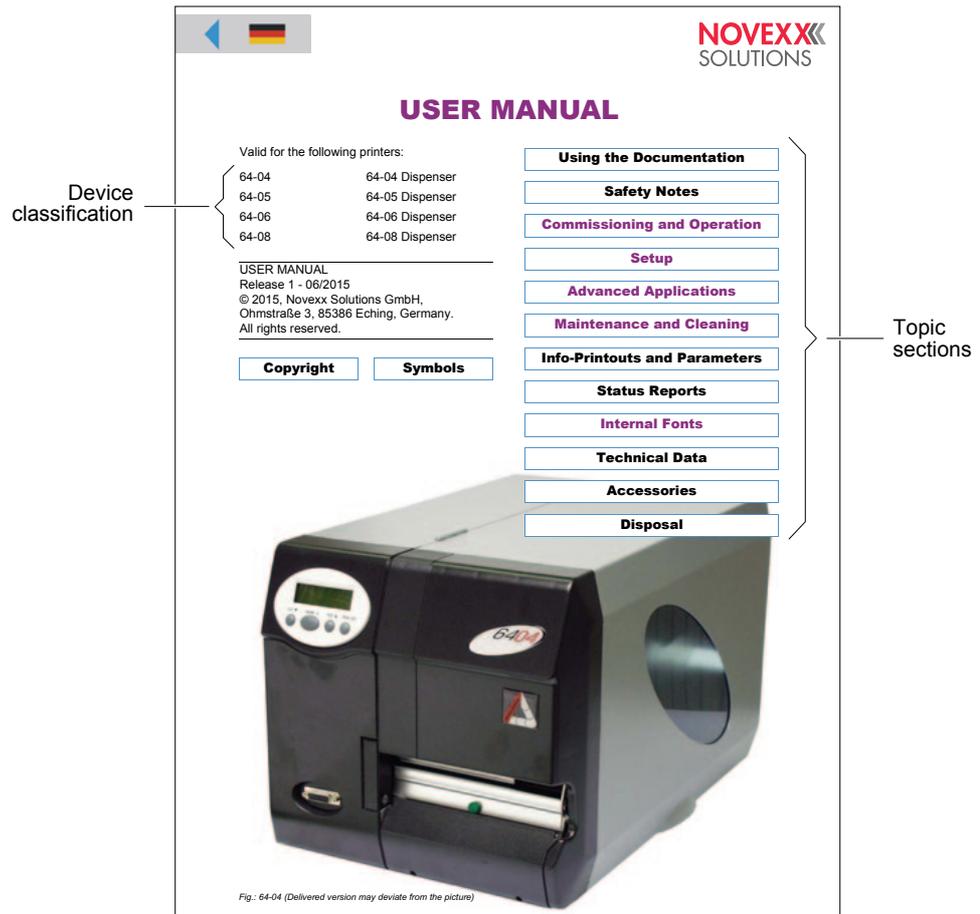
Fig. 1 Each Manual title page provides a list of topic section in its right half.

To a certain extent manuals are only virtual, as the same topic section can be simultaneously assigned to different manuals (the topic section physically only exists once).

Subject sections which are only assigned to a single manual are colour-coded on the title page of the manual (in the same colour as the title of the manual, see "Symbols and note signs").

Link page

A link page is only an organisational component of the datapool available on electronic media. The following features characterize a link page:

– Assignment to a single language

– Function as a link distributor to the individual manuals (access to the overall documentation of the corresponding language)

– Function as a link distributor to other components of the datapool provided on the electronic medium (e. g. printer drivers and print and design software in the corresponding language)

Start page   The start page is also only an organisational component and is displayed when the CD starts, or on the Internet on the link to the printer datapool. The following features characterize a start page:

- Assignment is irrespective of the language or multilingual

- Function for the language selection made by the user

- Function as a link distributor to the link page with the selected language.

This gives the following documentation hierarchy:

Hierarchy   1. Start page (selection of the language)

2. Link page (selection of the manual)

3. Manual title page (selection of the topic section)

4. Subject section contents page (selection of the subtheme)

In most cases, the subtheme selected in step 4 equates to the information being searched for. For instance, the selection of the status number in the list of contents of the topic section leads straight to the description of this status number.

Documentation format

All elements of the printer overall documentation are in Adobe PDF (Portable Document Format). This has the following practical advantages:

Printing   • The documents can be printed in the required quality irrespective of the printer type and the fonts which are used.

Memory   • Less memory is required for saving the document due to differentiated data compression (faster loading, faster printing).

Internet   • Internet compatibility due to the relatively small amount of data.

License   • Simple distribution without the need to purchase licenses (Adobe Reader licenses are provided free of charge by Adobe worldwide and in many languages).

Platform   • Can run on different platforms (Windows/Macintosh/Linux)

Links   • Links within and between Acrobat documents, as well as links to documents in other formats and executable files.

• Other Acrobat Reader functions such as page returns, bookmarks, thumbnails, document-overlapping search function with an automated index, etc.

❍ More detailed information about the Acrobat Reader is contained in the Acrobat online help.

Printing the documentation

In order to make the documentation readable without a PC, the documents can be printed in A4 as well as in Letter format. For printing, the Acrobat Reader uses the print capabilities of the platform it is run on. The layout of the printed documents equals the appearance on the monitor screen.

Mind the following hints before you start to print:

When printing several manuals, it is not necessary to print out all topic sections starting with the title page.

– Only print out the topic sections marked in black once. These topic sections are referenced from different Manuals. Physically, they consist of the same data.

– Always print out all subjects marked in purple. Reference is only made once in the respective manual to each purple topic section.

When printing all of only one manual, it is necessary to print out all topic sections in this manual starting from the title page.

Example
- In order to print a *user manual*, proceed as follows:

1. Print the title page.

2. Click the topic sections on the right half of the title page one after the other. Print each topic section completely.

- In order to print the *service manual* additionally, switch to the title page of the service manual and only click the topic sections written in purple. Print those topic sections. The remaining black topic sections are already printed with the user manual.

Text integration
It is also possible to integrate documentation text (and images) in other documents using the Windows clipboard. As a result, e. g. order information (spare part designations and part numbers) can be used simply and with no additional effort.

➡ Pay attention to copyright restrictions. Information on this subject can be found under "Copyright".

Navigation aids

Info search

The following options are available for quickly searching for information in the paper documentation:

– The title page of each manual with a list of contents of the topic section

– The detailed list of contents with page numbers on the first page of each topic section

– The own page numbering of each topic section

– The index at the end of each topic section.

Links

In the top left corner of each title page and on the first page of each topic section, you find small graphics, which ease the change back to higher levels of the documentation (see Tab. 1).

Symbol	Meaning
	Triangle: Link to the last opened page.
	Triangle: Link to the last opened page. *House*: Link to the menu page. *Flag*: Link to the german page of identical content. On the corresponding german page, a british flag symbolizes the cross-reference to the british page.
	Houses with flags: Links to the menu pages in different languages. Is used in bilingual topic sections (e.g. spare parts lists).

Tab. 1   Navigation aids can be found on the first pages of the PDF-documents.

Symbols and note signs

Warning notes

Warning notes warn of a possibly dangerous situation. Personal injury, material damage or data loss are possible, if care is not taken.

Depending on the dimension of possible damages, the warning notes look different:
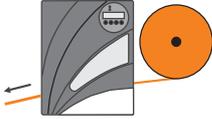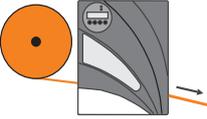
- Warning note, which warns of a danger that can lead to injuries, if the dangerous situation is not avoided. Appearance: Exclamation mark in a triangle, signal word "WARNING", blue frame, blue shaded text field (see below).

WARNING!

Description of the *danger source*.
Description of *possible personal injury*.

➜ *Measure* to avoid personal injury.

➜ Further measure to avoid personal injury.

➜ …

- Warning note, which warns of a danger that can lead to material damage or data loss, if the dangerous situation is not avoided. Appearance: Exclamation mark in a triangle, signal word "CAUTION", blue frame (see below)..

CAUTION!

Description of the *danger source*.
Description of *possible material damage*.

➜ Measure to avoid material damage.

➜ ...

Symbols

⚠	Warning of the risk of injury due to moving or rapidly rotating parts! Long hair, loose jewellery, long sleeves, etc.are not admissible when operating the machine. Wear sufficient personal protection gear.
🔧	Tools required for the described service action.
i	Marks additional information, which has not necessarily to be read to operate the machine, but which improves the understanding for the described function.
	Lefthand version (LH version): Symbol marking a text section which refers to the LH version of a device. (Only important for DPM, PEM and ALX 92x)
	Righthand version (RH version): Symbol marking a text section which refers to the RH version of a device. (Only important for DPM, PEM and ALX 92x)
CE	CE label: Documents the EC conformity of the device.
♻	Recycling: Notes about disposal. Pay attention to environmental protection!
	Arrow at the right bottom corner: paragraph is continued on the following page. ➡➡

Text appearance

1. 2.	(Numbered) Action instructions, introductory text: follow the sequence!
→	Focus arrow: action instructions, sequence not stipulated.
⮞	Note arrow: special note. Pay attention!
●	Focus point: feature, extra paragraph.
○	Focus circle: Reference to another text position or info source.
✓	Exists. Completed. Yes. Applies.
Blue text with link symbol ⧉	Link to other positions in the documentation (click). Exception: In lists of contents, the black text is also linked.

Title page

Link	Black text in the blue frame: link to topic sections which occur several times in different manuals (click).
Link	Purple text in the blue frame: link to a topic section which only occurs once and belongs specifically to the manual (click).
Link	Blue text in the blue frame: A click on the text starts an executable program, e.g. the printer driver unpacking program starting from the "Manual printer driver" title page.

Abbreviations

Printer names

If there is not enough space to call all printers by their full names, the abbreviated spellings listed in Tab. 2 are used.

Spelling	Meaning	Example, note
64-04/05	64-04, 64-05	
64bit series	Printer/Print-Dispenser with 64bit electronics	64-xx, DPM, PEM, ALX 92x
64-xx	Tabletop printer with 64bit electronics	64-04, 64-05, 64-06, 64-08
ALX 92x	Print-Dispenser of the ALX 92x series	ALX 924, ALX 925, ALX 926

Tab. 2　Abbreviated spelling of printers.

Parameters

The notation of parameters is done as follows:
MENU > Parameter name

Example:
INTERF. PARAM. > Interface
(Parameter "Interface" in the menu "INTERF. PARAM.")

Index

Safety Notes

Note about printer names

The protective measures described in the following count for all printers (e. g. 64-xx), print-and-apply machines (e. g. ALX 92x) and print-and-apply modules (DPM) distributed by Novexx Solutions.

➠ In this document, all above mentioned printer types are referred to as „machine".

Information and qualifications

Follow the instructions

Safe and efficient operation of the printer can only be guaranteed if you observe all necessary information.

Product liability and warranty can only be claimed, if the printer was operated according to the notes and instructions in the user manual.

→ Before operating the device, read the operating instructions and all other notes carefully.

→ Observe the additional safety and warning notes on the device.

Information must be made available

This operating manual…

→ is to be stored at the printer operating location and made accessible to the operator.

→ is to be maintained in legible condition.

→ If the machine is sold, it must be made available to the new owner

→ Safety and warning notices attached to the machine must be kept clean and legible. Missing or damaged warning labels and plates are to be replaced.

Ensure necessary qualifications

Operation

→ Only allow the printer to be operated, adjusted and serviced by instructed and authorised personnel.

Instruction of the operating personnel must ensure

- that operating personnel can use the machine independently and without posing a danger.
- that operating personnel can remedy minor operational malfunctions themselves.

→ Train at least 2 persons to operate the machine.

→ Make label materials for test purposes available in sufficient quantities.

→ Moreover, personnel are to be regularly instructed about work safety and environmental protection issues.

→ The responsibilities for operation, adjustment and servicing of the machine must be clearly defined and consistently maintained.

→ Only make adjustments to the machine in accordance with this manual and with all due care.

Service

Special servicing, fault searching and fault correction are to be carried out by the manufacturer, his appointees or other authorised service agents. This also includes the optional installation and refitting of components.

Machine operating safety

Conditions for safe use

➜ Only use the machine in enclosed areas with environmental conditions matching the values given in the technical specifications.

➜ Only operate the machine on a plane, solid support.

➜ Only trained and authorized personnel should operate the printer!

➜ During operation, the printhead can become hot! Care should be taken when touching the printhead!

➜ Do not make any modifications or any additional casing for the machine!

➜ Do not allow any liquids to enter into the machine!

➜ Repairs to the machine may only be performed by authorized specialists who are aware of the risks involved!

➜ Make sure that the power supply socket for the machine is readily accessible!

➜ Lay the power supply cable, data cables and compressed air hoses (if applicable) in a way that nobody can stumble over it.

➜ In case of emergency, switch off the machine and pull off the power supply cable!

➜ Only use original accessories!

Protect against injuries that can result from electrical current

➜ Only put the machine into operation when installed in a correctly installed housing.

➜ Only operate the machine using the system voltage indicated on the nameplate!

➜ Only connect the machine to a grounded power socket fitted to authorized standards!

➜ Only connect devices to the interfaces at the machine that fulfil SELV (safety extra-low voltage) circuit requirements according to EN 60950!

Protect against injuries that can result from mechanical actions

➜ Only operate the printer when the cover is closed!

➜ Don´t wear *loose* long hair (if necessary, wear a hairnet).

➜ Keep loose jewellery, long sleeves, etc. away from rotating parts or the printer.

➜ Wear sufficient personal protective equipment.

Applicator operation

The following printers can be operated with an applicator:

- 64-xx
- ALX 92x
- DPM

Operation with an applicator causes additional hazards, which must be safeguarded by the following additional protective measure:

➜ Only operate the printer, if it is equipped with an appropriate safeguarding device[1]. This device must stop the printer, if it is opened.

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1) Movable interlocking guard according to EN ISO 12100-1, 3.25.4

Attachment, Setup

General Notes

Intended Purpose

The rewinder option is a peripheral device for label printers of the types TTK, TTX 350, 64-xx, AP 5.4 and AP 7.t. The device is designed for winding up label material after it has been printed using one of the printer types named above.

Properties

As opposed to the stand-alone rewinding devices Junior Rewinder and Jumbo Rewinder, the rewinder option (subsequently referred to as the rewinder) is permanently attached to the printer. The printer provides power for the rewinder motor via a socket on the front, which is also used for receiving signals relating to the lateral deflection of the bouncer arm.

Rotational speed   While the material is being wound up, the rotational speed is controlled via the lateral deflection of the bouncer arm. The greater the lateral deflection, the lower the rotational speed. If the label material sags – the bouncer arm is in this case only slightly deflected – the rewinder increases the rotational speed in order to make up the "delay". This ensures that the label material is rolled up evenly tautly. Without lateral deflection - e.g. when the material is finished – the rewinding process stops after about four seconds.

Direction of rotation   The label material can be alternately rolled up with the labels facing outwards or inwards by reversing the direction of rotation.

System requirements

Printer type

The rewinder can be operated with the following printer types:

- TTX 350
- TTK
- 64-xx
- AP 5.4
- AP 7.t

Preparation for peripheral devices

For using the printers with a rewinder, they must be especially equipped (see Tab. 1). This so called peripherals preparation consists mainly of an additional output stage board for the motor of the peripheral device and of someadditional connection cables.

Printer	Peripherals Preparation
64-xx	Optional
TTX 350	Optional
TTK	Standard
AP 5.4	Standard with printer version „Peripheral"
AP 7.t	Standard

Tab. 1   Only the TTK is always equipped with the peripheral preparation. For the other printer types this is an option.

Peripheral test   Do the following, if you are not sure, wether the printer is equipped with peripheral preparation:

- TTK / TTX 350:

➔ Set parameter SYSP > PEPH to KNIF.

If the printer displays the status message ST68 after the ENTER key is pressed, the peripheral board is not installed. If ST68 does not appear or if a different status message is displayed, then the printer has been set up for peripheral devices.

- 64-xx / AP 5.4 / AP 7.t:

➔ Make a service status printout: Call parameter PRINT INFO > Service Status.

64-xx and AP 5.4 printers are equipped with peripheral preparation if the topic "Peripheraldriver" can be found below the header "Peripheraldriver" on the printout.

Attaching the rewinder

▸ Before beginning service work, switch off the printer and pull out the mains power supply plug!

▸ Under no circumstances should you use the dancer arm as a carrying handle! A bent dancer arm will cause the device to malfunction!

The rewinder (1) is attached to the front of the printer (2) with two screws. The support leg (3) absorbs some of the strain exerted by the material roll.

▸ Other options which may be installed or the cover must be removed before assembling the rewinder.

Tool

– Allan key 3mm

Assembly / Disassembling

1. Place the printer on a level surface. Ensure that there is enough room in front of the printer for the support leg (3) of the rewinder.

2. Attach the rewinder housing (4) to the printer recess (5) using the two screws supplied.

3. Loosen the supporting leg fastening screw (6). Push down the support leg until it stands on the surface. Push up the rewinder a little and at the same time tighten the fastening screw.

▸ The weight of the material roll should rest on the support leg.

4. Plug in the connector plug (7).

▸ Under no circumstances should the plug be attached or removed when the device is switched on, as otherwise the device electronics could be damaged.
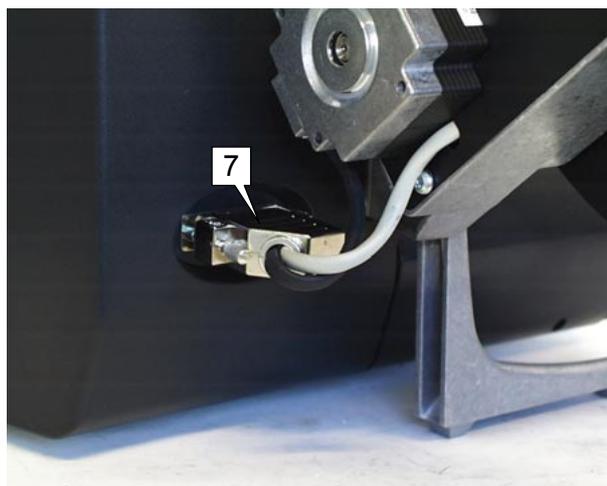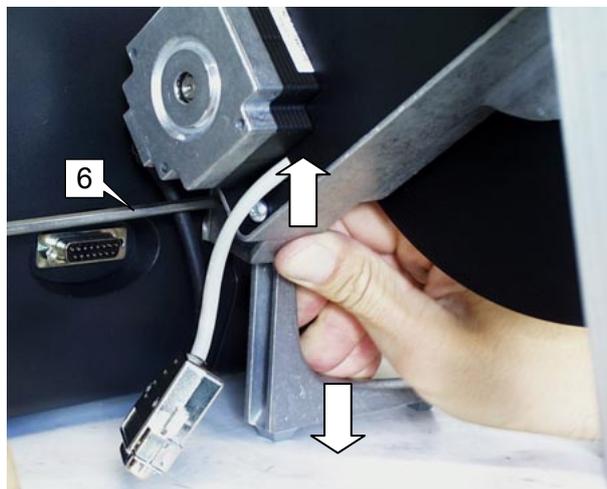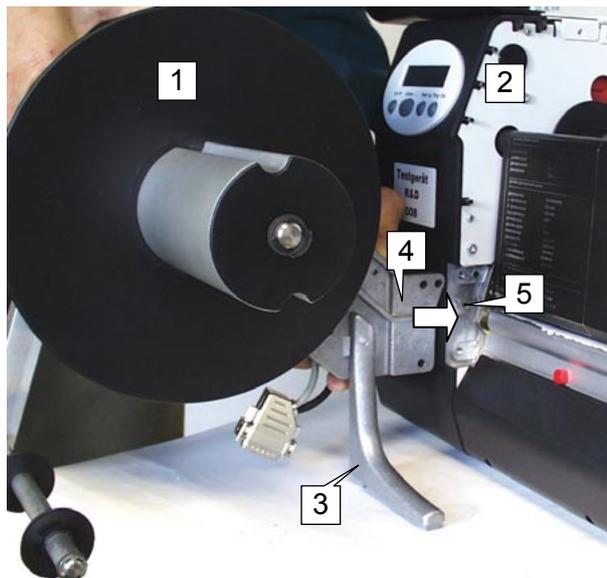
General information about setting up the printer

After mounting the rewinder you must set up the printer for operation with the new peripheral device. This is done by selecting the appropriate parameter in the parameter menu of the printer.

Direction of rotation

The rewinder can be operated in two rotation directions, which are designated in a different way in the parameter menues of the printers.

Printer	Designation of the rotation direction	
TTK/TTX 350	"DIRL"	"DIRR"
64-xx/AP 5.4/AP 7.t	"Printing outside"	"Printing inside"

Tab. 2   The designations of the rotation direction are different in the parameter menus of TTK/TTX 350 and 64-xx/AP 5.4/AP 7.t.

- TTK / TTX 350:
  The direction of rotation is requested after selecting the rewinder option in the parameter menu.

- 64-xx / AP 5.4 / AP 7.t:
  The rotation direction is set by a separate parameter.

▐▐▐➡ Default setting: "Printing outside".

Dancer arm deflection

In the mode "DIRR"/"Printing inside", material does not wrap itself around the bouncer arm as much as is the case with "DIRL"/"Printing outside" (Tab. 2). Particularly with larger roll diameters, the dancer arm would often shoot from one extreme position to the other. The material would then be wound up in a jolting manner.

For this reason, the software is adjusted when "Direction of rotation right" "Printing inside" is selected – it then only uses approximately 50% of the maximum dancer arm deflection for controlling the motor.

Rotation speed with 64-xx / AP 5.4

With printers of the types 64-xx / AP 5.4 / AP 7.t, the rewinder rotation speed depends on the print speed. A low print speed leads to a slower rewinder rotation as a high print speed. An exception to this rule is the rotation speed directly after starting the wind-up process.

❍ For details to this, refer to the section Starting on .

Setting up TTX 350 / TTK

Setup the printer for rewinder-use by performing the three subsequently described steps:

1.

2.

3.

How to perform the steps is explained in the following.

○ A complete description of the parameters can be found in the chapter "Info Printouts and Parameters" in the User Manual of the printer.

Activating the rewinder / Selecting the Rotation Direction

⚠ ⫸ CAUTION! - Selecting a non-existent option can cause the device to malfunction!

	Action	Display	Note
1.	Connect the printer and switch it on	OFF	
2.	Press the CUT+FEED button	INFO	
3.	Repeatedly press the CUT button until	SYSP	
4.	Press the ENTER button	EMUL	
5.	Repeatedly press the CUT button until	PEPH	
6.	Press the ENTER button	NONE	*If a peripheral device has previously not been set.*
7.	Repeatedly press the CUT button until	RWND	
8a.	Press the ENTER button	DIRL	*Step 8a for direction of rotation left.*
8b.	Press the CUT button	DIRR	*Step 8b for direction of rotation right.*
9.	Press the ENTER button		*The printer restarts.*

Direction of rotation (label beside steps 8a/8b)

The rewinder is now activated. Other previously activated options are automatically deactivated (see parameter PEPH).

Setting the sensor current

Befor using the rewinder for the first time, the sensor current must be set by
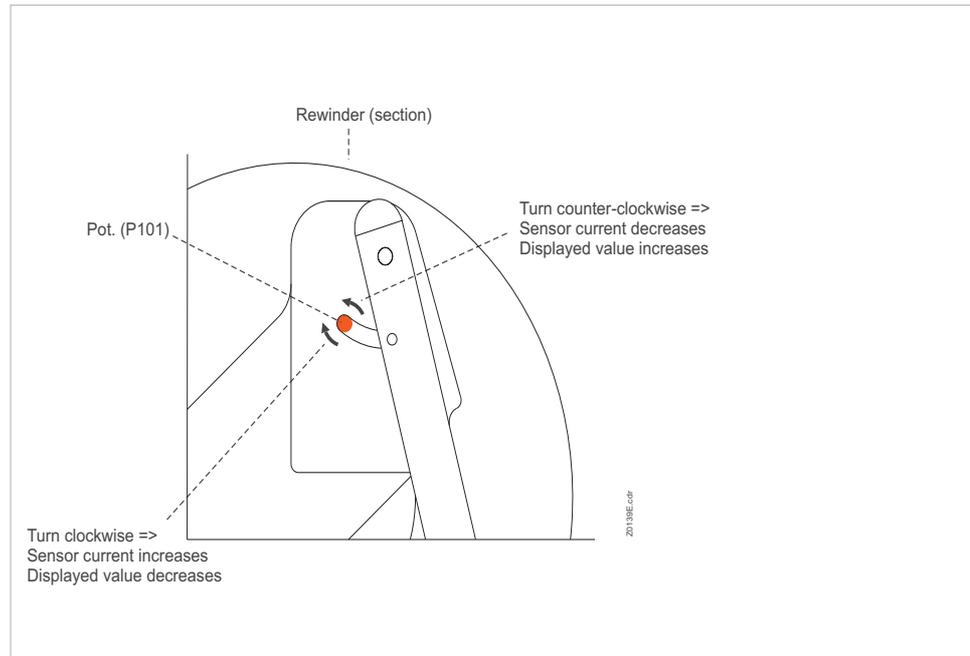
a potentiometer at the rewinder (see Fig. 1).

Fig. 1 The pot. can be accessed through a slot in the back cover of the rewinder.

	Action	Display	Note
1.	Select parameter OTHR > SCHK.	SCHK	
2.	Press the ENTER button	Pxxx	*Other information may be displayed depending on the printer type; xxx = variable value.*
3.	Repeatedly press the CUT button until	Wxxx	
4.	Set the rewinder pot. (Fig. 1) so that a value between 20 and 30 is displayed.	W20	*Bouncer arm in zero position (Fig. 2); 24 = set value.*
5.	Move the bouncer arm to the final position (towards the support leg). Check the displayed value*.	W141	*141 = set value (example) in the final position; Value difference = 117 (o.k.)*

*) The value with the bouncer arm in its final position must be at least 100 higher than the value in zero position, which was set in step 4. Most important ist the difference between the two values in the two end positions: the difference must equal/be higher than 100, ideally 110. Repeat step 4 and set a higher value in the zero position, if the difference is too little.

Adjusting the sensor

The bouncer arm controls the winding speed of the rewinder by means of a sensor. Bevor applying the rewinder for the first time, the bouncer arm has to be brought in both end positions to adjust the sensor.
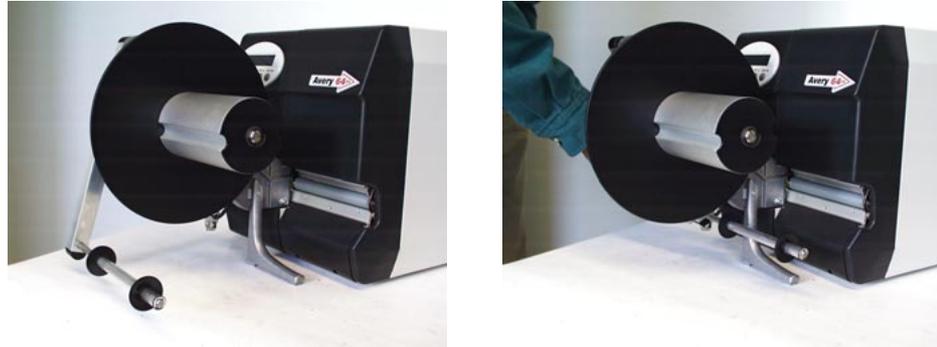

Fig. 2 Left side: bouncer arm in zero position; right side: bouncer arm in final position.

	Action	Display	Note
1.	Select parameter SYSP > PEPH.	PEPH	
2.	Press the ENTER button	RWND	*If the rewinder has already been set.*
3.	Repeatedly press the CUT button until	RADJ	
4.	Press the ENTER button	RNUL	*Initially setting of the sensor with the bouncer arm in the zero position. (See fig. above left)*
5.	Press the ENTER button	xxx	*xxx = actual sensor value; the displayed value is altered by moving the bouncer arm.*
6.	Move the bouncer arm appr. 5 mm out of the zero position. Press the ENTER button.	REND	
7.	Press the ENTER button	xxx	*xxx = actual sensor value; the displayed value is altered by moving the bouncer arm.*
8.	Move the bouncer arm up to the stop plate in the direction of the support leg, and then back again by approx. 5 mm. Press the ENTER button.	RWND	
9.	Repeatedly press the CUT+FEED button until	OFF	

▐▐▐➡ Set the value approx. 5 mm before reaching the final or zero position, respectively!

⚠ ⫸ CAUTION! - If programming is interrupted by pressing the CUT+FEED button, the printer uses preset values which may cause the device to malfunction!

❍ A complete description of the parameters can be found in the chapter "Info Printouts and Parameters" in the User Manual of the printer being used.

Setting up 64-xx / AP 5.4 / AP 7.t

Setup the printer for rewinder-use by performing the following steps:

1. Activating the rewinder on page 11.

2. Selecting the direction of rotation on page 11.

3. Setting the sensor current on page 12.

4. Adjusting the sensor on page 13.

How to perform the steps is explained in the following.

❍ A complete description of the parameters can be found in the chapter "Info Printouts and Parameters" in the User Manual 64-xx.

Activating the rewinder

⫸ CAUTION! - Selecting a non-existent option can cause the device to malfunction!

➜ Set SYSTEM PARAMETERS > Periph. device to "Rewinder".

The rewinder is now activated. Other previously activated options are automatically deactivated.

Selecting the direction of rotation

	Action	Display	Note
1.	Press the Prog button	PRINT INFO	
2.	Press the Cut button	PRINT PARAMETERS	
3.	Press the Online button	Print speed	
4.	Repeatedly press the Cut button until	Rewind direction	
5a.	Press the Online button	Rewind direction Printing inside	Step 5a for printing facing inwards
5b.	Press the Cut button	Rewind direction Printing outside	Step 5b for printing facing outwards
6.	Press the Online button	Rewind direction	
7.	Repeatedly press the Prog button until	OFFLINE 0 JOBS	

Checking the sensor current setting

(Only for 64-xx and AP 5.4)

→ Call SERVICE FUNCTION > Rewinder values.

> Rewinder Values
> xxx <--------------------> yyy

- xxx = Sensor value in zero position
- yyy = Sensor value in final position (Dancer arm at the printer side limit)

The difference yyy – xxx must *at least* be 80 (best: 100). If the difference is less, the sensor current setting must be changed, see chapter Setting the sensor current below.

Setting the sensor current

Befor using the rewinder for the first time, the sensor current must be set by a potentiometer at the rewinder (see Fig. 3).
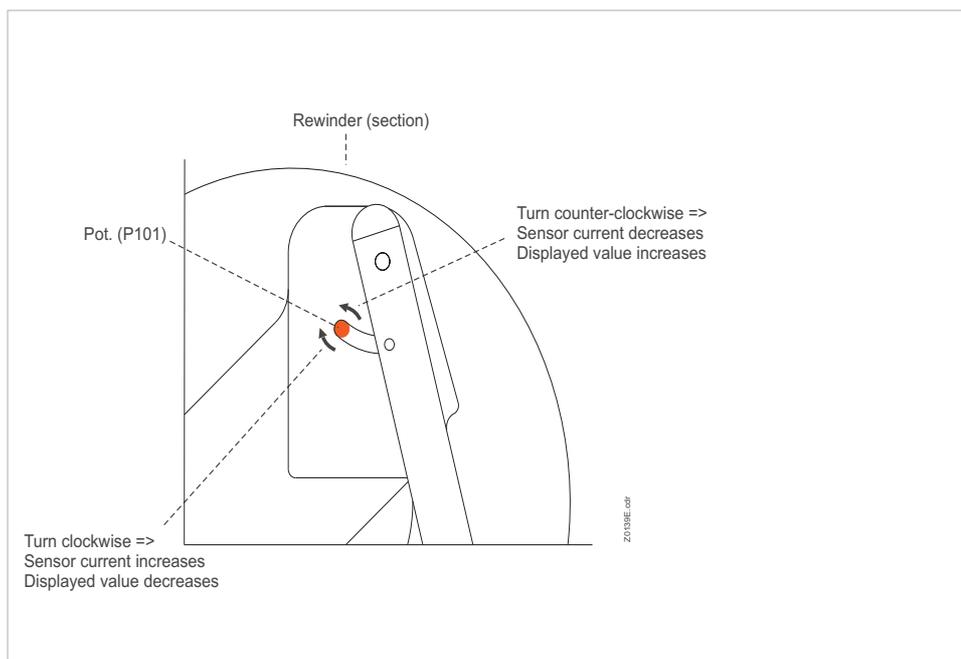

Fig. 3   The pot. can be accessed through a slot in the back cover of the rewinder.

	Action	Display	Note
1.	Select parameter SERVICE FUNCTION > Sensor test.	Sensor test Sens: 0.01 xxx	*xxx is the value supplied by the sensor*
2.	Press the Feed button repeatedly until	Sensor test Sens: 4.01 xxx	*4.01 = sensor peripheral devices*

3.	Set the rewinder pot. (Fig. 1) so that a value between 20 and 30 is displayed.	Sensor test Sens: 4.01 27	*Bouncer arm in zero position (Fig. 2); 27 = set value.*
4.	Move the bouncer arm to the final position (towards the support leg). Check the displayed value*.	Sensor test Sens: 4.01 130	*130 = set value (example) in the final position; Value difference = 103 (o.k.)*

*) The value with the bouncer arm in its final position must be at least 80 higher than the value in zero position, which was set in step 3. Most important ist the difference between the two values in the two end positions: the difference must equal/be higher than 80, ideally 100. Repeat step 3 and set a higher value in the zero position, if the difference is too little.

Adjusting the sensor

The bouncer arm controls the winding speed of the rewinder by means of a sensor. Bevor applying the rewinder for the first time, the bouncer arm has to be brought in both end positions to adjust the sensor.

Fig. 4 Left side: bouncer arm in zero position; right side: bouncer arm in final position.

	Action	Display	Note
1.	Select parameter SERVICE FUNCTION > Rewinder setup	Rewinder setup	*If 0 jobs are stored in memory.*
2.	Press the Online button	Rewinder setup Resting pos. xx	*xx = actual value supplied by the sensor; moving the bouncer arm alters the value*
3.	Move the bouncer arm appr. 5 mm out of its resting (zero) position. Press the Cut button.	Rewinder setup End pos. xx	*Mind the notes following this table!*

| 8. | Move the bouncer arm up to the stop plate i the direction of the support leg, and then back again by approx. 5 mm. Press the Enter button. | Rewinder setup | *Mind the notes following this table!* |
| 9. | Repeatedly press the Prog button until | OFFLINE 0 JOBS | |

⟲▶ Set the value approx. 5 mm before reaching the final or zero position, respectively!

⟲▶ Press the Cut button in the resting position but the Online button in the end position!

⚠ ⟲▶ CAUTION! - If programming is interrupted by pressing the Esc-button, the printer uses preset values which may cause the device to malfunction!

Inserting material

Direction of rotation　The material – depending on the set direction of rotation – is wound around the core in a clockwise or anti-clockwise direction (see Fig. 5).

Fig. 5　Left side: direction of rotation = left (labels outside); right side: direction of rotation = right (labels inside)

Proceed as follows:

1. Remove the guide disk (1). To do so, open the clamping lever (2). Remove the clamping bar (3).

2. Feed the end of the material web around dancer arm and winding core and fix it with the clamping bar. To do so, push the clamping bar over the material (4).

▐▐▐➡ If a cardboard core is used: Push the clamping bar underneath the cardboard core.

❍ Continued overleaf.
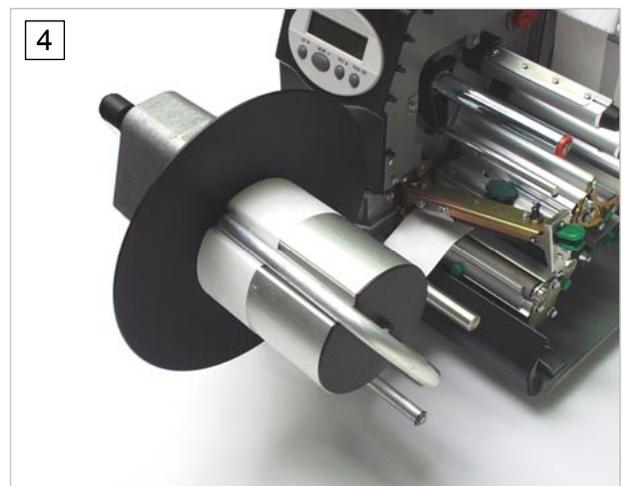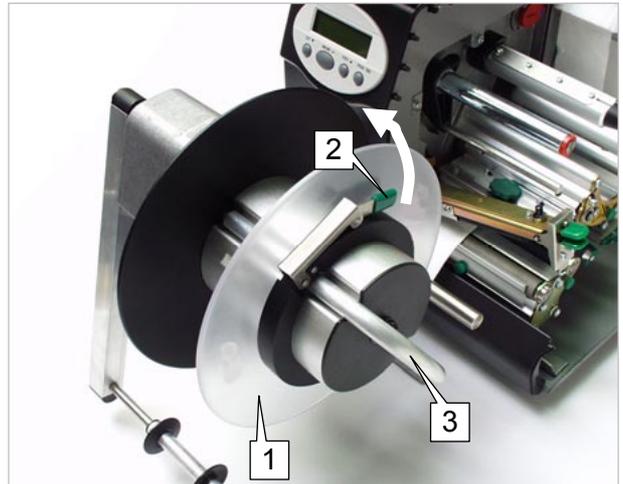
3. Remount the guide disk.

▥▶ The recesses at the inner diameter of the guide disk (arrows) must be positioned over the clamping bar legs (5).

4. Push the guide disk up to the material edge (6). Close the clamping lever.

▥▶ The guide disk may not wedge in the material.

5. Adjust the material guides (7) on the bouncer arm by pushing them sideways until they correspond to the width of the material.

▥▶ The material should run evenly, and there should be a small gap between it and the material guides.
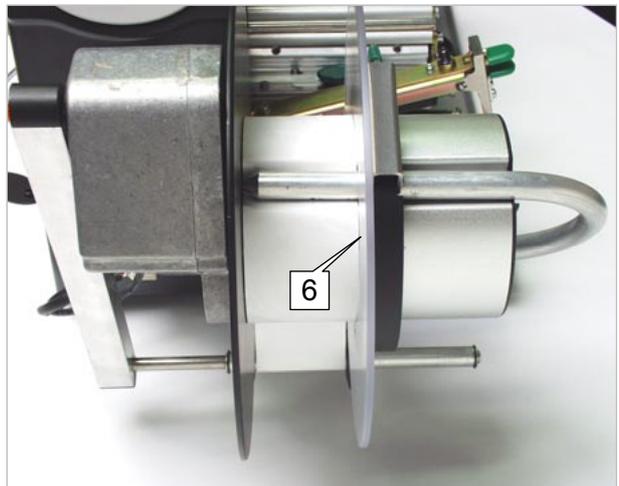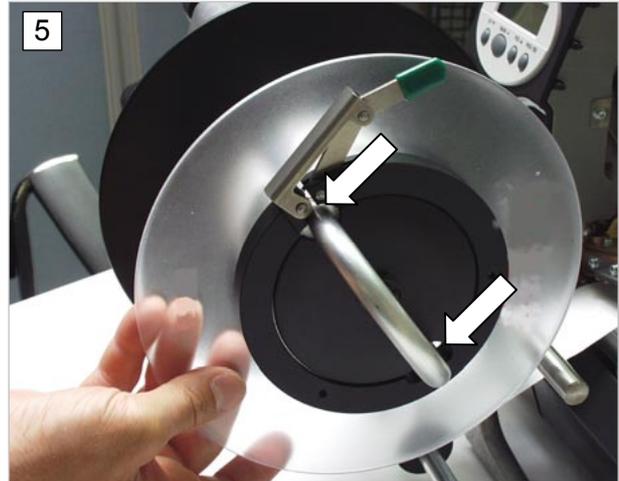
Starting

After securing the material end, proceed as follows to start printer and rewinder:

The printer is set to off-line mode.

Starting TTX 350 / TTK

1. Press the CUT button.

   The rewinder starts rewinding, until the bouncer arm reaches the final position. At that point, the rewinder stops.

2. Switch the printer on-line.

   If a printjob has already been loaded, both printing and rewinding start nearly simultaneously.

Cut button   Start or stop the rewinder by pressing the CUT button. This works in on-line mode as well as in off-line mode.

Material end ⯈ With no material to rewind, the rewinder stops after approx. 4 s and shows the status report:

   ST13

→ Press the ON/OFF button to acknowledge the status report.

Starting 64-xx / AP 5.4 / AP 7.t

1. Press the Cut button

   The rewinder starts rewinding, until the bouncer arm reaches the final position. At that point, the rewinder stops.

⯈ It is essential to let the bouncer arm initially reach its final position after starting. Only then, the bouncer arm takes control over the rotation speed (explanation below).

2. Switch the printer on-line.

   If a printjob has already been loaded, both printing and rewinding start nearly simultaneously.

Cut button   Start or stop the rewinder by pressing the Cut button. This works in on-line mode as well as in off-line mode.

Material end ⯈ With no material to rewind, the rewinder stops after approx. 6 s and shows the status report:

   Status   5004
   Rewinder mat. tear

→ Press the Online button to acknowledge the status report.

⯈

Rotation speed   Pressing the Cut button after securing the material end lets the rewinder start winding at a comparably slow, constant speed. This startup speed is independent of the formerly set printspeed and is maintained until the bouncer arm reaches its final position for the first time after starting. After having reached the final position, you recognize an alternating motor sound as well as a changing rotation speed, indicating that the bouncer arm is from then on controlling the rotation speed.

(AP 5.4) Run-in roller for narrow labels

To improve the guiding accuracy of AP 5.4 printers processing very narrow label material, it is recommended to install an additional run-in roller (1) (article number A100422).

At older rewinders, an additional hole according to fig. (2) must be drilled before installing the run-in roller.

Tools:

    2/2.5 mm allen keys

Assembling:

→ Screw the axle of the run-in roller to the hole as illustrated (1).

Adjusting:

1. Measure the centre of the label material and mark it (3).

2. Loosen the set screw (4).

3. Shift the roller on the axle until the centre groove on the roller (5) is in front of the mark (3) on the material.

4. Re-tighten the set screw (4).

Material path:

▐▶ Insert the material so that it runs *over* the roller (6).
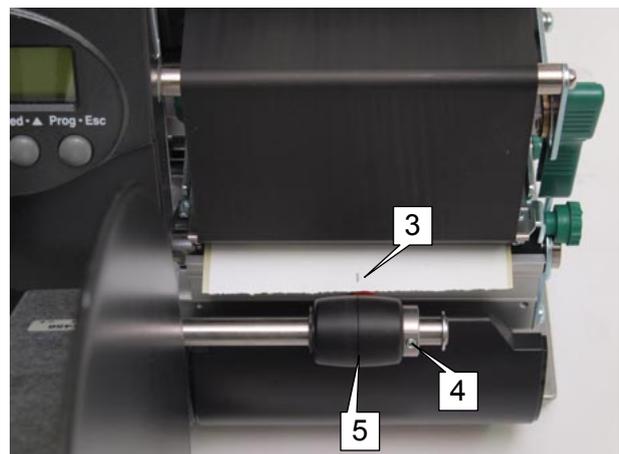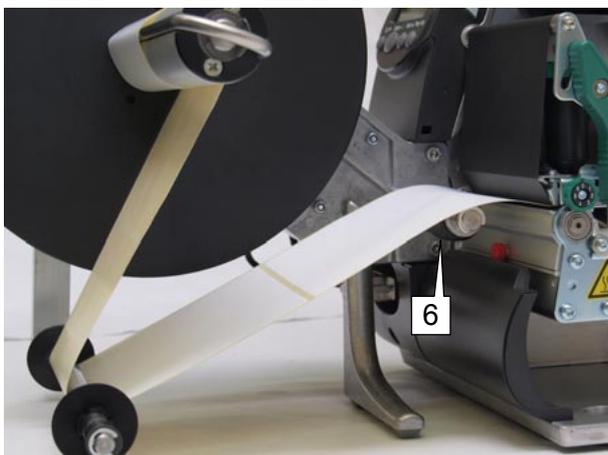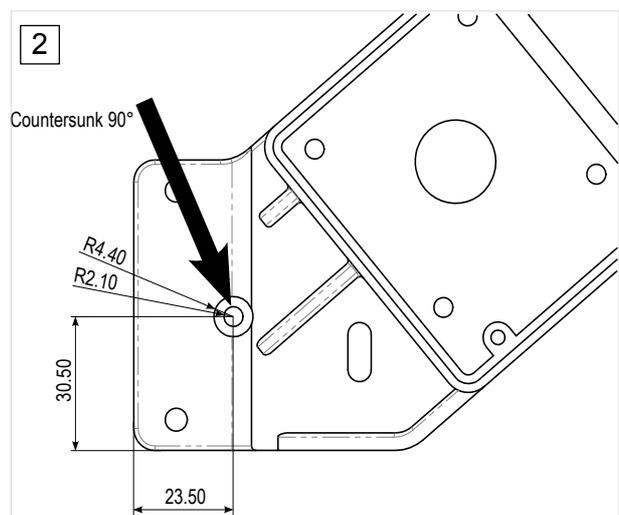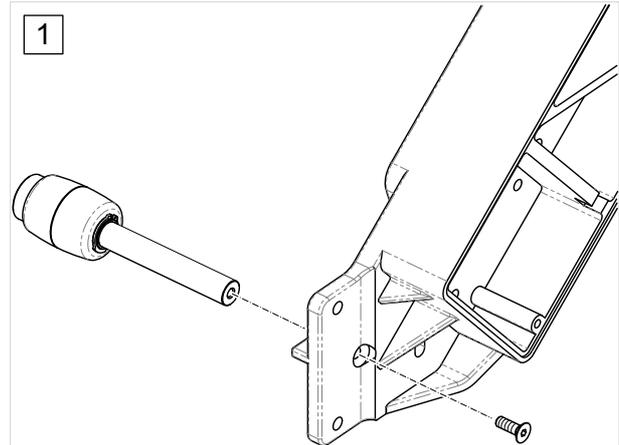
Technical Specifications

Motor   Stepper motor

Position sampling Infrared light barrier

Rot. direction   Free selectable – Rewind direction with label facing outside or inside.

Rewind speed   Max. 203 mm/s (8"/s)

Spezification material roll	Max. outer-Ø	230 mm
	Core Inner-Ø	38/76/102 mm (1,5/3/4")
	Min. material width	= Minimal print width
	Max. material width	= Width of the rewinding mandrel (102/127/152 mm resp. 4/5/6")
	Max. roll weight	5 kg

Noise level   < 70dB(A)

Index