

REINER

REINER 940



Operating Manual

GB

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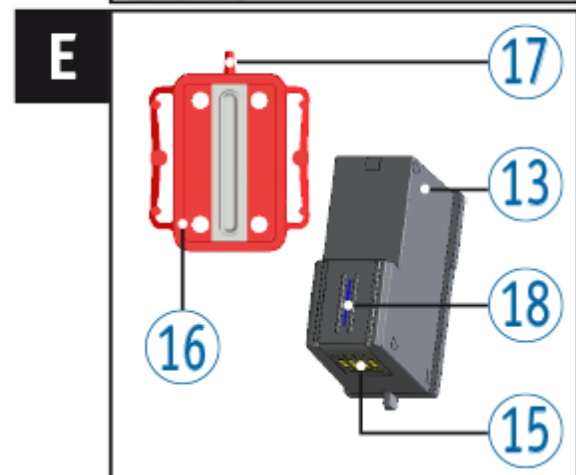
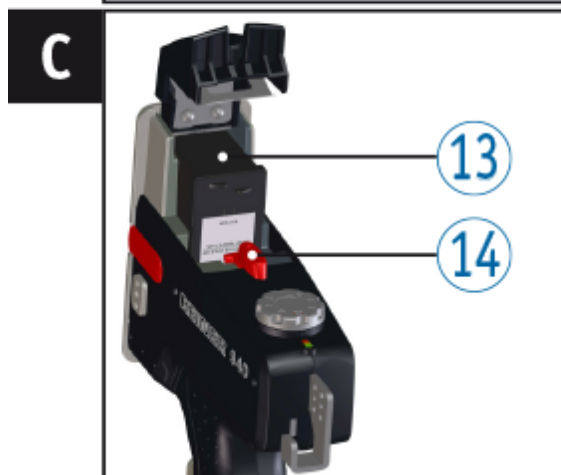
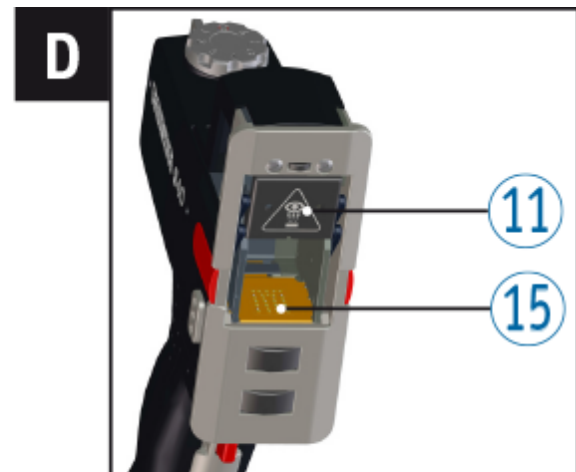
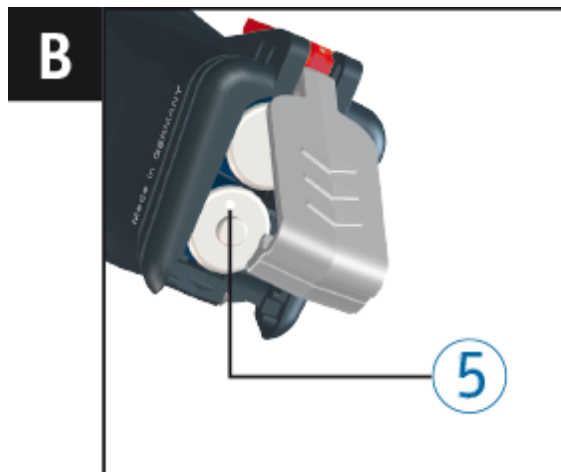
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1 Your REINER 940

REINER**REINER 940**

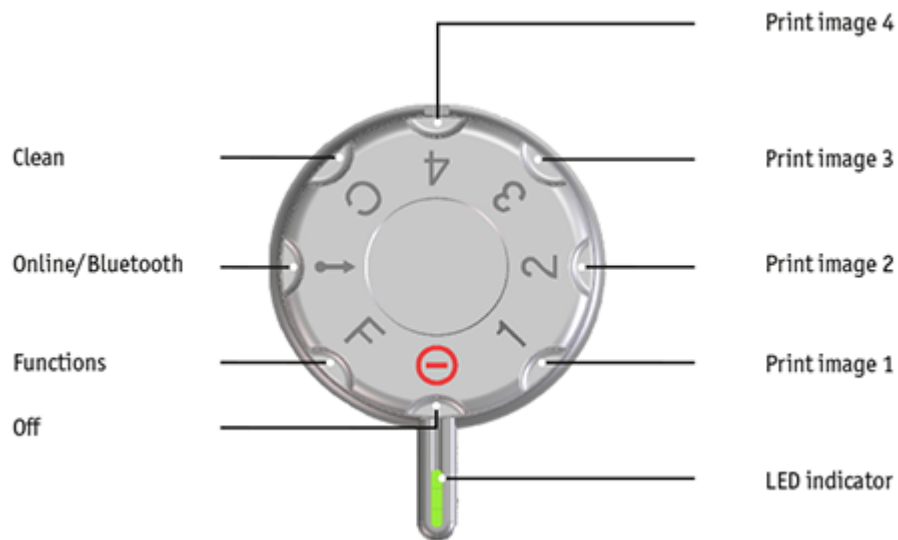
1.1 Operating elements





- | | |
|--|--|
| ① Setting wheel | ⑩ Indicator of print position |
| ② LED display | ⑪ Nozzle cover |
| ③ Flange | ⑫ Print cartridge cover |
| ④ Micro USB socket with charging indicator | ⑬ Print cartridge |
| ⑤ Battery compartment | ⑭ Print cartridge cover locking button |
| ⑥ Closure lever locking | ⑮ Print cartridge contacts |
| ⑦ Closure lever | ⑯ Seal |
| ⑧ Print trigger | ⑰ Seal tip |
| ⑨ Scanning roll | ⑱ Nozzles |

1.2 Setting wheel



i The **LED display** marks the selected setting and flashes in case of warning messages.

i To set **Functions** (see "[Functions](#)").

i Before adjusting the setting wheel, close the closure lever!

► To avoid malfunctions align the settings precisely with the LED display!

► To activate Bluetooth, turn the setting wheel **1** to position **Online/Bluetooth** (see "[Bluetooth](#)").

2 Important notes

Before commissioning of the REINER 940, always read the operating instructions and in particular the safety notes with care. This prevents insecurities in handling of the marking devices and connected safety risks to keep you safe and avoid damage to the device.

[Rechargeable batteries](#)

[Seal](#)

2.1 Rechargeable batteries

The charging of the batteries is electronically controlled. This ensures that the battery cells are charged optimally and carefully.

Recharging

► Fully charge rechargeable batteries before first application. Duration approx. three hours.

After the first full charge, the batteries do not yet reach full capacity. You must expect that the normal service times will be undercut.

Reaching full capacity

Full capacity is achieved when the batteries are completely discharged and charged several times.

2.2 Seal



The seal must be inserted accordingly with the insertion/replacement of the print cartridge or replaced. Please observe the brief instructions enclosed with each print cartridge!

3 Your safety

[Safety, description](#)

[Safety notes on rechargeable batteries](#)

[Safety notes](#)

[Safe handling of print cartridges](#)

3.1 Safety, description

DANGER

Warnings of dangers that lead to **death or severe injury directly** if not observed.

WARNING

Warnings of dangers that may lead to **death or severe injury** if not observed.

CAUTION

Warnings of dangers that may lead to **injury** if not observed.

NOTICE

Warnings of dangers that may lead to **property damage** if not observed.

► You are asked to perform actions here.



Notes and advice to make handling your REINER 940 even easier.



Notes on instruction videos.

3.2 Safety notes on rechargeable batteries

Rechargeable batteries are subject to wear. A longer service life than six months cannot be warranted.

WARNING

Possible explosion in contact with fire.

- ▶ Never throw batteries into fire.

CAUTION

Injuries resulting from destruction of the battery when using unsuitable rechargeable batteries or non-rechargeable batteries.

- ▶ Only use the batteries intended for the device.

Type usage

Use only the supplied mains adapter or a PC USB port to charge the batteries.

Only use rechargeable batteries (two each) type nickel metal hydride (REINER item number: 946 192 - 000) of build AA.

Always replace all flat rechargeable batteries at once.
Unauthorised batteries may cause damage or malfunction.

- ▶ Use only prescribed rechargeable batteries.

Insertion

Observe polarity of rechargeable batteries when inserting, refer to symbols!

Disposal



Defective or used batteries

Used batteries or rechargeable batteries must not be disposed of with household waste.

3.3 Safety notes

WARNING

Possible blindness due to eye contact with ink.

- ▶ Do not point the nozzles of the REINER 940 at people's faces!

CAUTION

Possible tripping and damage to the device due to device lines lying freely in the room.

- ▶ Place the device lines so that they do not pose a danger source!

NOTICE

Damage to the device at improper transport.

- ▶ Only use packaging that provides protection from impact and shock for the device!

NOTICE

Damage to the device by dewing.

- ▶ Before commissioning, wait until the device has reached room temperature and is completely dry
!

3.4 Safe handling of print cartridges

WARNING

Possible blindness due to eye contact with ink.

- ▶ Do not point the nozzles of the REINER 940 at people's faces!

CAUTION

Damage to health caused by ingestion of ink.

- ▶ Do not swallow!
- ▶ Keep the print cartridge out of the reach of children!

4 Preparation and commissioning



Only connect the device to the PC after the PCset graphic software has been installed (see "[Install PCset graphic software](#)").

With the installation of the PCset graphic software, the required USB drivers are installed. If a connection is established between the PC and the device, the USB drivers are automatically detected and loaded. If the device is connected without installing the PCset graphic software, the installation of the device drivers fails.

[Commissioning](#)

[Execute test print](#)

[Activate Bluetooth](#)

[Install PCset graphic software](#)

[Firmware update](#)

4.1 Commissioning



Find a clip on our homepage www.reiner.de or on [youtube](#).

[Rechargeable batteries](#)

[Seal and pressure cartridge](#)

4.1.1 Rechargeable batteries

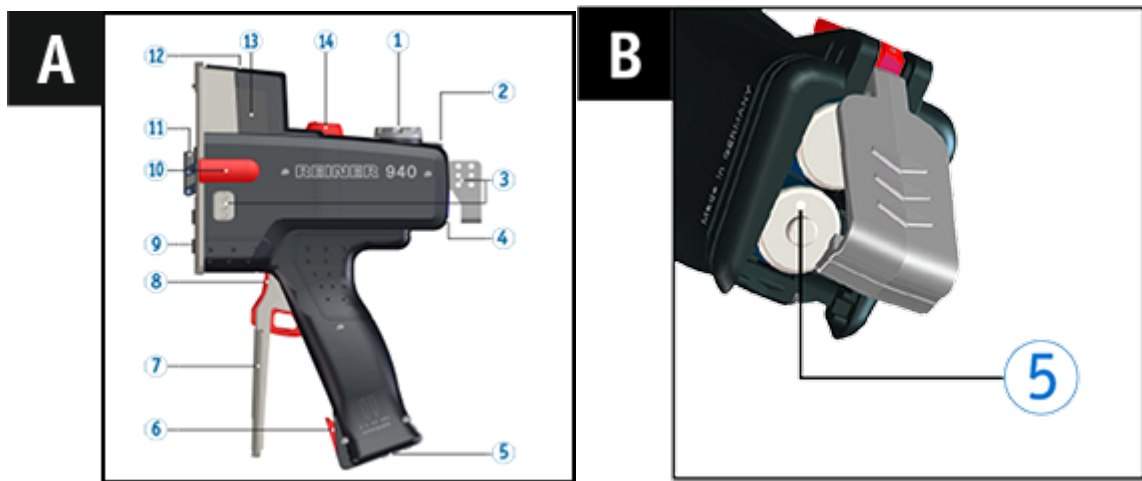
The batteries must be fully charged before first application. The charging time is approx. three hours. The batteries are charged when the green charging indicator is off ④.

[Inserting rechargeable batteries](#)

[Charging rechargeable batteries](#)

4.1.1.1 Inserting rechargeable batteries

Inserting rechargeable batteries ⇒ Fig. **A** + **B**

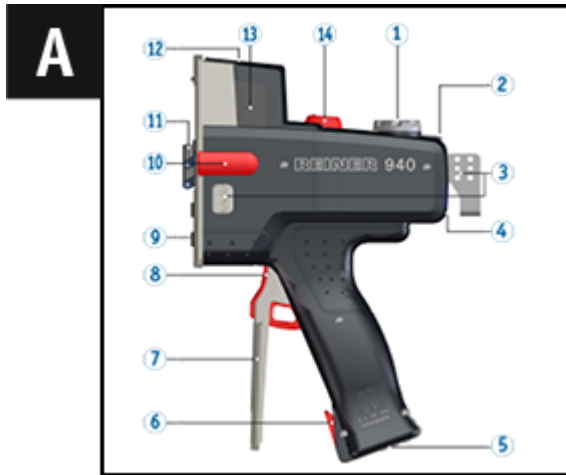







Always replace all flat rechargeable batteries at once.
When the batteries are removed, the date, time and counter reading of the numbering machines are maintained.

- ▶ Open the battery compartment ⑤ in the arrow direction.
- ▶ Ensure correct polarity and insert batteries.
- ▶ Close battery compartment ⑤.

4.1.1.2 Charging rechargeable batteries

Charge rechargeable batteries ⇒ Fig. **A**



-  Charging at a USB hub without its own power supply is not possible.
-  The power socket must be easily accessible for the mains adapter. To disconnect the device completely from the mains, the mains adapter must be unplugged from the power socket.
- ▶ Connect the Micro USB socket of the device  via the USB cable to the mains adapter and connect the mains adapter to the mains.
Green charging indicator  lights up.
Charging is complete when the charging indicator  is off.

4.1.2 Seal and pressure cartridge


 The seal and pressure cartridge are shipped separately from the device - follow the instructions below.


[Insert the seal](#)

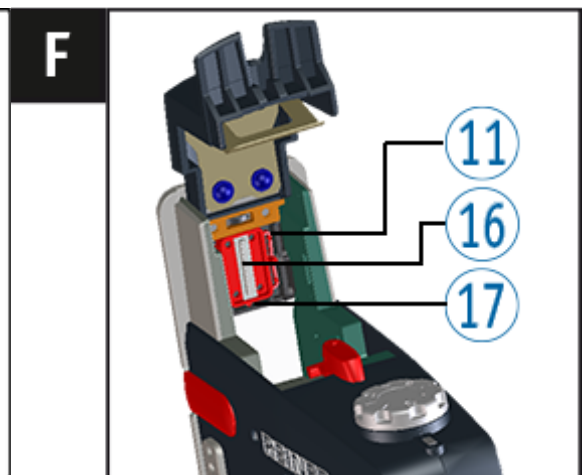
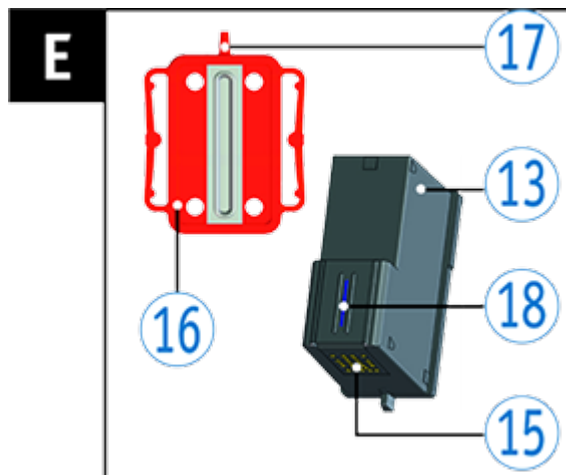
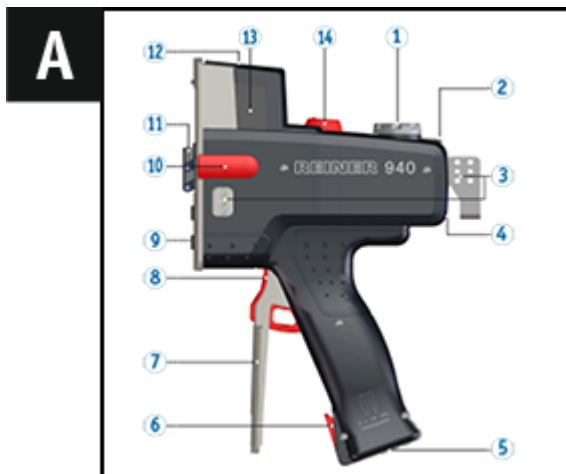
[Inserting the print cartridge](#)

4.1.2.1 Insert the seal

Insert seal ⇒ Fig. **A** + **E** + **F**

 Different seals are required depending on the type of ink used (see "[Replacing the seal](#)").

 Always use the seal of the associated print cartridge – be sure to replace the seal with new print cartridges.



► Push down the print cartridge cover locking button .

- ▶ The latch of the print cartridge cover **12** is loosened.
- ▶ Fold open the print cartridge cover **12**.
- ▶ Press and hold the closure lever **7** to insert the seal **16**.
The nozzle cover **11** moves up.
- ▶ Take the seal **16** from the package and place it with the seal tip **17** first behind the nozzle cover **11** and latch it with slight pressure.
- ▶ Release the closure lever **7**.

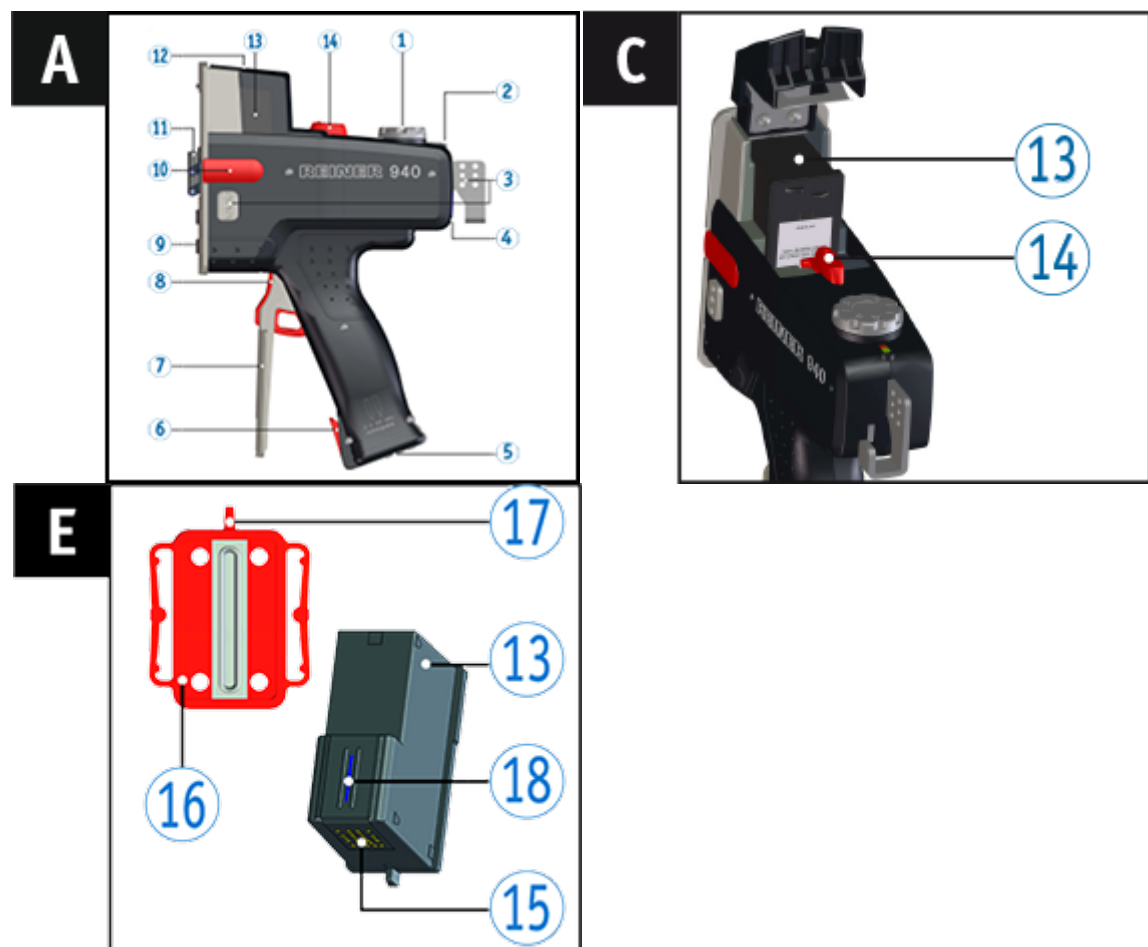
4.1.2.2 Inserting the print cartridge

CAUTION

Damage to health caused by ingestion of ink.

- ▶ Do not swallow!
- ▶ Keep the print cartridge out of the reach of children!

Inserting the print cartridge ⇒ Fig. **A** + **C** + **E**



- ▶ Take a new print cartridge **13** from the packaging and remove the protective film or clip from the nozzles **18**.

- ▶ Insert the print cartridge 13 in the already open print cartridge cover 12.
- ▶ Close the print cartridge cover 12.

 Observe acoustic signal of the *jetStamp graphic 970* (see "[Acoustic Signals](#)").


4.2 Execute test print

WARNING

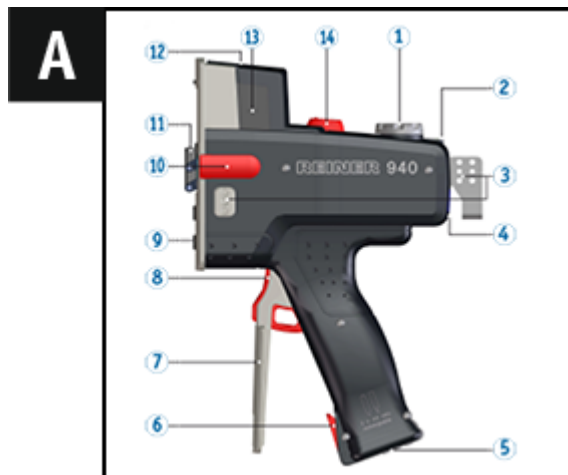
Possible blindness due to eye contact with ink.

- ▶ Do not point the nozzles 18 of the REINER 940 at people's faces!

Execute test print ⇒ Fig. **A**

 The imprint can only be selected if the closure lever 7 is not pushed and the nozzle cover 11 thus is closed.

 The REINER940 is delivered ex works with 4 pre-programmed sample print images.

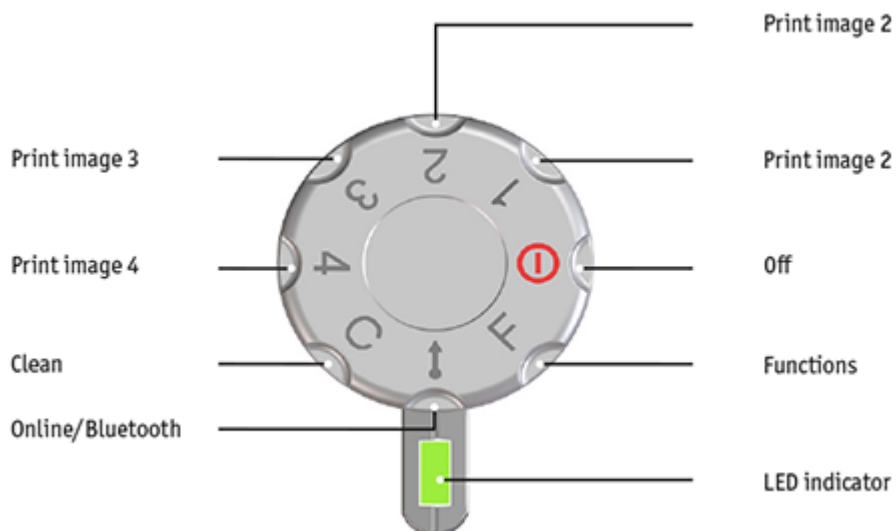


- ▶ Set setting wheel 1 to position 1.
- ▶ Pull the closure lever 7 towards the device.
- ▶ Place REINER 940 on the printing material.
- ▶ Actuate the print trigger 8.
- ▶ Unwind the device at a constant speed in print direction.
The imprint was printed.



My 1st Imprint 28.06.2020

4.3 Activate Bluetooth



i Bluetooth cannot be activated while an a USB connection is active.
With an active Bluetooth connection, a USB connection cannot be established either.

i If Bluetooth is active, the battery runtime reduces since Bluetooth is active in standby mode as well.

- ▶ To activate Bluetooth on the device, the setting wheel ① must be turned to position **Online/Bluetooth**.
- ▶ To establish the Bluetooth connection with the device, follow the instructions "[Establishing Bluetooth connection](#)".

4.4 Install PCset graphic software



The installation must be carried out on a commercially available local PC.
A virtualised PC or thin client is not suitable.



The local time CET/Central European Time is preset at delivery of the device.
Once the device is connected to a PC with the PCset graphic software and a print image is then transferred to the device, the device adopts the local time (see "[Transfer the print image to the REINER 940](#)").

[System requirements](#)

[Installing the software](#)

4.4.1 System requirements

Supported REINER devices

- *jetStamp graphic 970*
- *jetStamp graphic 1025*
- *jetStamp graphic 1025 sense*
- *REINER 940*

Hardware

- Graphics adapter with a min. resolution of 1280 x 1024 pixels
- Memory 32 MB min.
- 200 MB free hard disk space
- 1 free USB interface or Bluetooth

Supported operating systems

- Windows 7, Windows 7 64 Bit, Windows 8, Windows 8 64 Bit, Windows 10, Windows 10 64 Bit, Windows 11

4.4.2 Installing the software

Administrator rights on the PC are required for the installation.



Plug the USB stick supplied with the device into the USB port of your PC.







Start the file "Setup_PCsetgraphic.exe".



Follow the instructions of the installation program.

4.5 Firmware update

The current firmware of the REINER 940 is available for download from www.reiner.de in the section "**Downloads - Software**".

-  Before performing a firmware update, transfer and save the print images on the REINER 940 to the PCset graphic. The print images can be damaged during the Firmware update.
-  Ensure that the PCset graphic is installed on your PC but **not** opened before the firmware update is started. While the firmware update is being installed, the REINER 940 must not be switched off.
- ▶ Connect the micro USB socket  to the PC via the USB cable.
- ▶ To activate the device, turn the setting wheel  to position 1.
- ▶ Unpack "**Firmware update**" and start "**940 Firmware xxxx.exe**". The firmware is installed automatically. After a successful firmware update, the PCset graphic can be opened again.

5 The PCset graphic software application

[Get REINER 940 ready for PCset graphic](#)

[Starting the software](#)

[Operating interface](#)

[Establishing Bluetooth connection](#)

[Example workflow: Generating the print image](#)

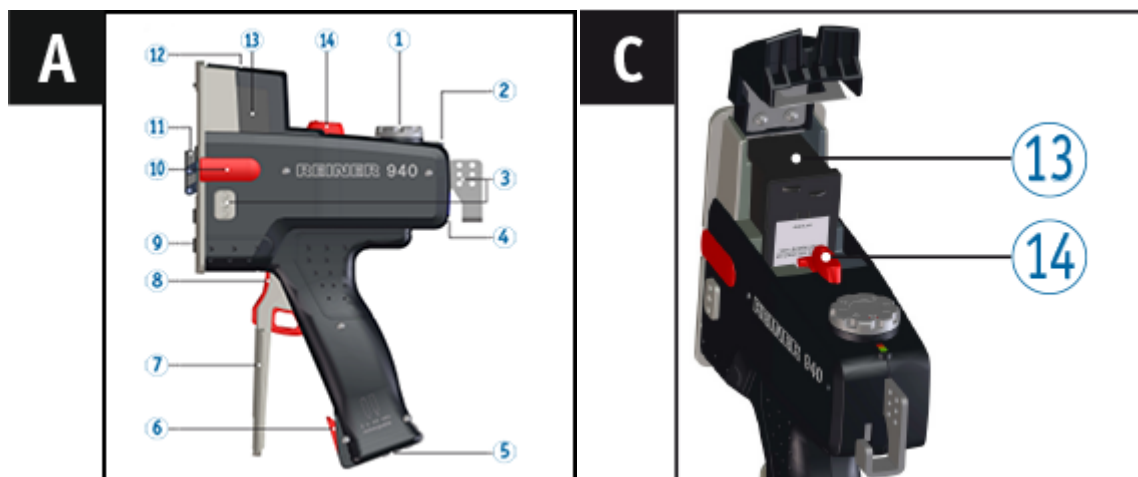
[Objects settings](#)

Supported REINER devices

- *jetStamp 1025*
- *jetStamp 1025 sense*
- *jetStamp graphic 970*
- REINER 940

5.1 Get REINER 940 ready for PCset graphic

Get REINER 940 ready for PCset graphic ⇒ Fig. **A** + **C**



i The PCset graphic software must first be installed so that the device can be recognised correctly by the PC.

- ▶ Connect the micro USB socket **4** to the PC via the USB cable.
- ▶ Turn the setting wheel **1** to position **1** to switch on the device.
The PC recognises the REINER 940 as a new USB device.

The device driver software is installed automatically.



When the device is connected to the PC, the batteries are charged via the USB port.

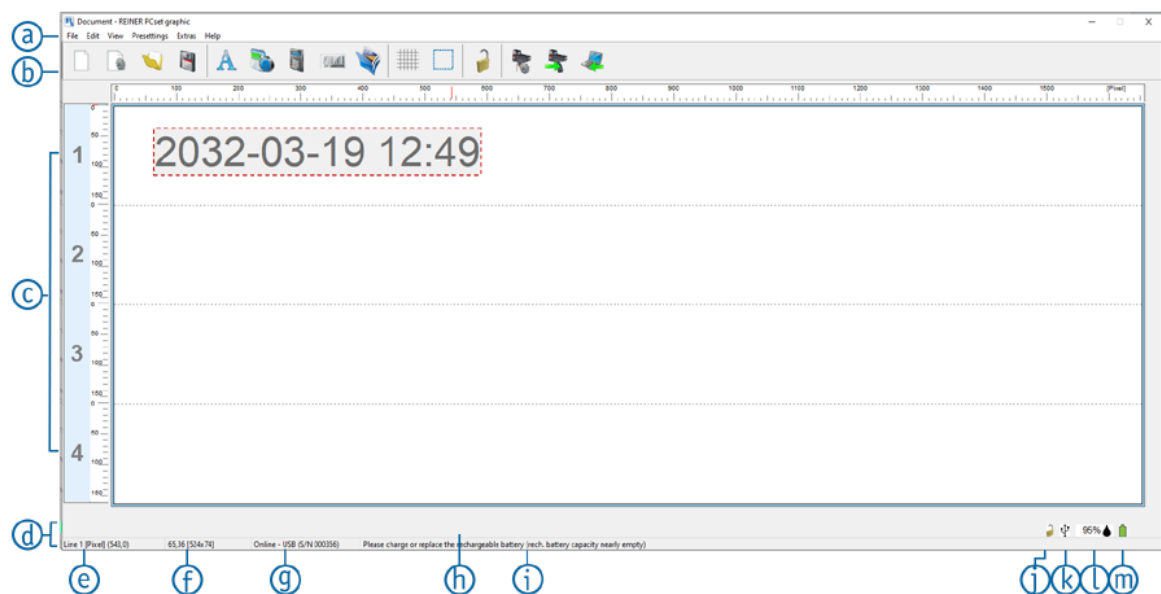
5.2 Starting the software

- ▶ Double-click the **REINER PCset graphic icon** .
The PCset graphic software is started.

5.3 Operating interface



The operating interface is divided into four sections:

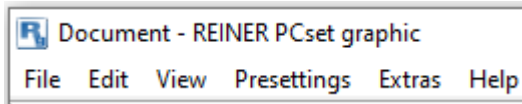
- a Menu bar with both Windows typical and PCset graphic specific functions
- b Toolbar
- c 4 lines for design of the print images
- d A bar with various [status indicators](#).



- | | |
|--|---------------------------------------|
| a Menu bar | h Transfer process |
| b Toolbar | i Device messages |
| c Print images | j Device security |
| d Status indicators | k Connection |
| e Cursor position | l Ink level indicator |
| f Object position [object size] | m Charge indicator |
| g Online/offline (connected device with serial number) | |

5.3.1 Menu bar

In addition to the functions in the tool bar , you can find a menu bar  in the REINER PCset application.



In the menu bar you will find both common, self-explanatory standard commands as well as PCset graphic-specific menu commands.

The latter can usually also be called via the toolbar symbols.

[File](#)

[Edit](#)

[View](#)

[Presettings](#)

[Extras](#)

[Help](#)

5.3.1.1 File

Function	Description
New	Reset the display. Delete the displayed draft.
Open	File selection menu for loading previously saved print images.
Save	Save the displayed print image as XML file.
Save as	The dialogue for saving the print images appears.
Device settings - Font	Configure font.
Device settings	Configure the print settings, signals, and functions.
Print image transfer	The selected print image is transferred to the device.
Print image upload	Load the active print image in the device for editing.
Search for REINER Bluetooth devices	Searches for REINER Bluetooth devices. This function is only available if there is no USB connection.
Last opened	Displays the last opened print images.
Exit	Exits the PCset graphic.

5.3.1.2 Edit

Function	Description
Undo	The last actions performed are undone.
Delete	Deletes selected objects.
Copy	Load selected content to the clipboard.
Paste	Paste content from the clipboard.
Cut	Delete selected contents and load them to the clipboard.

5.3.1.3 View

Function	Description
Grid	Set grid.
Zoom	50%, 100%, 200%
Display lock in toolbar	Show or hide device security button.
REINER 940	Operating interface REINER 940 appears.
jetStamp graphic 970	Operating interface jetStamp graphic 970 appears
jetStamp 1025	Operating interface JetStamp 1025 appears.

5.3.1.4 Presettings

Function	Description
Text	Settings for text objects can be configured.
Date/Time	Settings for date/time objects can be configured.
Numbering machine	Settings for numbering machine objects can be configured.
Barcode	Settings for barcode objects can be configured.










5.3.1.5 Extras



Function	Description
Device security	The device security locks the print and protects the print data from misuse.
SF module	Service and maintenance module for REINER.
Daylight savings time	No daylight savings time, daylight savings time Europe, daylight savings time America

5.3.1.6 Help

Function	Description
Help	Help with detailed configuration instructions and the operating instructions in electronic form.
Info	<p>Release notes for the software.</p> <p>If the REINER 940 is connected, information on model, serial number and firmware version are also displayed.</p> <p>An internet link to the REINER website will be displayed to download the latest software if the software or the REINER 940 is not on the latest version.</p>

5.3.2 Toolbar

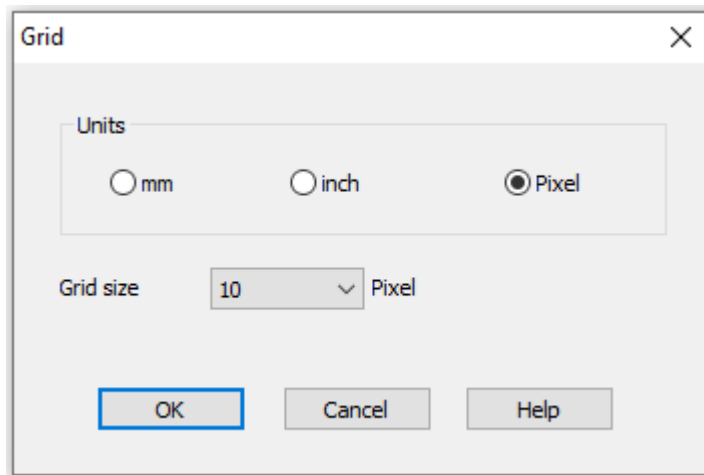
Toolbar 	Menu command	Description
	New	Reset the display. Delete the displayed draft.
	Font	The " Font " tab in the "Settings" menu.
	Open	File selection menu for loading previously saved print images.
	Save	Save the displayed print image as XML file.
	Grid	Activates the grid for aligning objects.
	Selection	For areas that have been fixed via the "Generate graphic" function (see " Selection ").
	Device security	<p>The device security may be set (refer to "Device safety").</p> <p>The "View" tab allows you to show or hide the device security button by clicking on "Display lock in toolbar".</p>
	Settings	The " Print settings " tab in the "Settings" menu.

	Transfer	The displayed print images are transferred to the device. The data present on the REINER 940 are overwritten.
	Upload	Load the print images saved in the device for editing.

5.3.2.1 Grid



The print area is divided into the selected raster size.



Units

Grid/ruler/mouse position/object size are displayed in the selected unit.

Unit	Description
mm	Ruler is subdivided into mm .
inch	Ruler is subdivided into inch .
Pixels	Ruler is subdivided into pixels .

5.3.2.2 Selection










- ▶ Activate "Selection".
 - ▶ Hold down the left mouse button and draw a selection frame along the desired area.
 - ▶ Release left mouse button.
- All objects and backgrounds contained in the frame are selected and can be cut, copied or deleted.

5.3.3 Objects

Print images are composed of objects from the five object groups described below.

Objects can be placed freely using drag & drop (see "[Example Workflow: Generate Print Image](#)").

 The format of each object group can be configured individually. Menus for format settings are opened by right-clicking on the respective object or in the "Presettings" tab in the [menu bar](#).

Toolbar 	Command	Description
	Text	Enter the desired text at the cursor position. The font and font style depend on the text format you have selected. A double-click on the text terminates the text input mode. Text can also be pasted via the Windows clipboard. The font size is automatically adjusted to the grid height when the grid is enabled.
	Date/Time	Font, font style, font size and format can be set individually (refer to " Font " and " Presettings ").
	Numbering machine	The numbering machine is used for sequential numbering. Starting value, step width and font orientation, as well as font, font style and font size can be set (refer to " Font " and " Presettings ").
	Barcode	Various barcode formats are available in the format settings (refer to " Presettings ").
	Graphic	After inserting a graphic object, a file selection window opens. Select the desired graphic and confirm with "Open".

5.3.4 Device security


[Device security](#)

[Unlock device](#)

[Lock device](#)

5.3.4.1 Device security



The device security locks the print and protects the print data from misuse.

 Devices without a current firmware version do not support device security. You can download the latest firmware version from www.reiner.de in the section "**Downloads - Software**".

► The device safety can be set in the menu bar  by clicking the tab "Extras → Device safety" or in the toolbar  via the buttons  /  / .

Three functions can be selected:

1.  Device safety is deactivated.

2.  Device safety is activated.
Print images **cannot** be transmitted and printed without entering a password.
3.  Device safety is activated.
Print images can be transmitted and printed **without** entering a password.

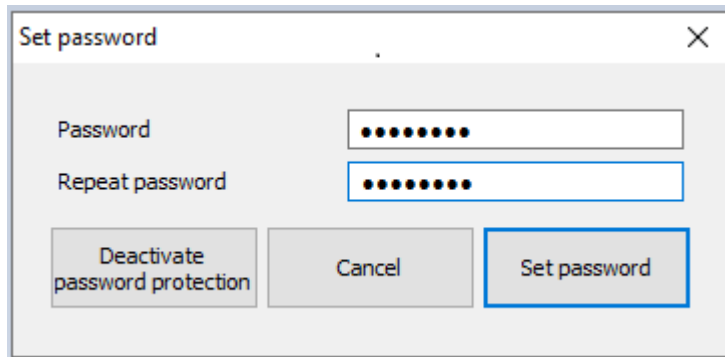
[Set password](#)




[Disable password protection](#)

[Forgotten password](#)

5.3.4.1.1 Set password






 "Set password" activates device safety and protects the print data from misuse.



- ▶ To activate the device security ,  select the "Extras" tab in the menu bar and use "Device safety → Set password" or go to the toolbar  and click the button .
- ▶ Enter a password.
- ▶ Repeat the password.

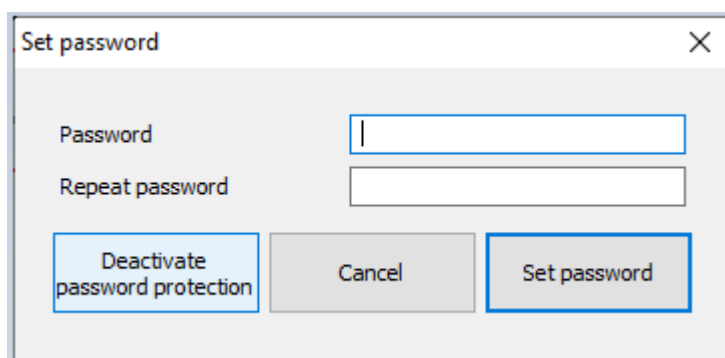
The password may contain a maximum of 8 characters.





The following characters can be used: 0-9, A-Z, a-z and the characters !"#%&'()*+,-./:;<=>?[]{} ~.

- ▶ To activate the device safety, click on the "Set password" button.
In the toolbar  the symbol changes from  to  and in the status indicator  appears the symbol .

5.3.4.1.2 Disable password protection

 "Deactivate password protection" deactivates device safety.






- ▶ To ensure the safety of the device **deactivate** in the menu bar  the tabSelect "Extras" and "Device safety → Click on Set password".
- ▶ Click on "Deactivate password protection".
In the toolbar  the symbol changes from  to .

5.3.4.1.3 Forgotten password

 When resetting the password, the REINER 940 is reset to the factory setting. All saved print images are deleted.

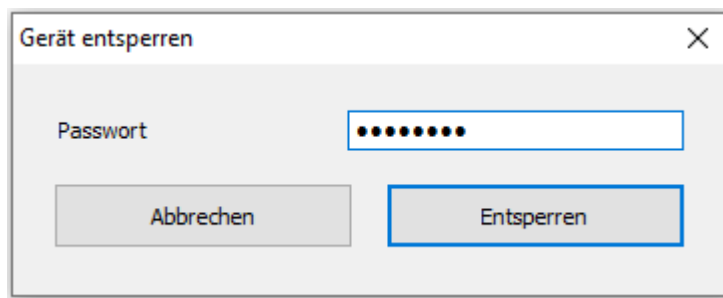
 The password can only be reset when the REINER 940 has no device error.







If the set password has been forgotten, it can be reset as follows:

- ▶ Remove print cartridge .
- ▶ Set setting wheel  to position **C**.
- ▶ Push the print trigger  for at least 10 seconds.
When the password is reset, a warning signal is emitted.

5.3.4.2 Unlock device







 Print images can be transmitted and printed **without** entering a password.




- ▶ To **unlock** the device, select the "Extras" tab in the menu bar  and click "Device security → Unlock device" or click the button .
- ▶ Enter password and click "Unlock".
In the status indicator  and in the toolbar  the symbol changes from  to .

5.3.4.3 Lock device

 Print images **cannot** be transmitted and printed without entering a password.

- ▶ To **lock** the device again, select the "Extras" tab in the menu bar  and click "Device security → Lock device".
- OR -
- ▶ Click on the button .
- OR -
- ▶ Switch the device off and on
In the status indicator  and in the toolbar  the symbol changes from  to .

5.3.5 Device settings

 Device settings will only become active when they have been transmitted to the REINER 940.



Click on the symbol.
The device settings are opened.

[Print settings](#)

[Signals](#)

[Functions](#)

[Font](#)

5.3.5.1 Print settings

Device settings

Print settings

Signals

Functions

Font

Print sequence:

Print single line (Setting wheel)

Print direction:

Left to right

Alignment:

0° rotated

Print intensity:

Normal

Print start

Print trigger

Encoder

Fixed speed

Lead [mm]

Print delay [s]

Line 1

23.0

0.25

Line 2

23.0

0.25

Line 3

23.0

0.25

Line 4

23.0

0.25

Print path per cycle [mm]

Speed [mm/s]

0.338

250

Default

OK

Cancel

Help

[Print sequence](#)
[Print direction](#)
[Alignment](#)
[Print intensity](#)
[Encoder](#)

5.3.5.1.1 Print sequence

Device settings

Print settings

Signals

Functions

Font

Print sequence:

Print single line (Setting wheel)
Print single line (Setting wheel)
Print lines in sequence (1,2,3,4)
Continuous printing (1,1,1,1)

Print direction:

0° rotated

Alignment:

Normal

Print start

Print trigger

Encoder

Fixed speed

Lead [mm]

Print delay [s]

Line 1

23.0

0.25

Line 2

23.0

0.25

Line 3

23.0

0.25

Line 4

23.0

0.25

Print path per cycle [mm]

Speed [mm/s]

0.338

250

Default

OK

Cancel

Help

Function	Description
Print single line (Setting wheel)	The selected line is printed once per print trigger.
Print lines in sequence (1,2,3,4)	All lines are printed in ascending order, starting with the line set on the setting wheel (1, 2, 3 or 4).
Continuous printing (1,1,1,1)	The line selected on the setting wheel (1, 2, 3 or 4) is printed continuously one after the other as long as the print trigger is

pressed.

5.3.5.1.2 Print direction

Device settings

Print settings | Signals | Functions | Font

Print sequence: Print single line (Setting wheel) ▼

Print direction: Left to right ▼
Left to right
Right to left

Alignment: Normal ▼

Print intensity: Normal ▼

Print start: Print trigger ▼ Encoder: Scanning roll ▼

	Lead [mm]	Print delay [s]
Line 1	23.0	0.25
Line 2	23.0	0.25
Line 3	23.0	0.25
Line 4	23.0	0.25

Print path per cycle [mm]: 0.338

Speed [mm/s]: 250

Default

OK Abbrechen Hilfe

Function	Description
Left to right	The print direction is from left to right.
Right to left	The print direction is from right to left.

5.3.5.1.4 Print intensity

Device settings

Print settings | Signals | Functions | Font

Print sequence: Print single line (Setting wheel) ▾

Print direction: Left to right ▾

Alignment: 0° rotated ▾

Print intensity: Normal ▾
Normal
Economical

Print start: Print trigger ▾ Encoder: Scanning roll ▾

	Lead [mm]	Print delay [s]
Line 1	23.0 ▴ ▾	0.25 ▴ ▾
Line 2	23.0 ▴ ▾	0.25 ▴ ▾
Line 3	23.0 ▴ ▾	0.25 ▴ ▾
Line 4	23.0 ▴ ▾	0.25 ▴ ▾

Print path per cycle [mm]	Speed [mm/s]
0.338 ▴ ▾	250 ▴ ▾

Default

OK Cancel Help

Function	Description
Normal	Default ink consumption.
Economical	Reduction of ink consumption.

5.3.5.1.5 Encoder

Device settings

Print settings

Signals

Functions

Font

Print sequence:

Print single line (Setting wheel)

Print direction:

Left to right

Alignment:

0° rotated

Print intensity:

Normal

Print start

Print trigger

Encoder

Scanning roll

Scanning roll

External cycles

Fixed speed

Lead [mm]

Line 1

23.0

Line 2

23.0

Line 3

23.0

Line 4

23.0

Print path per cycle [mm]

0.338

Speed [mm/s]

250

0.25

0.25

0.25

0.25

Default

OK

Abbrechen

Hilfe

Function	Description
Scanning roll (Printing start with release)	<div> <div> <div>Print start</div> <div>Print trigger</div> </div> <div> <div>Encoder</div> <div>Scanning roll</div> </div> <div> <div>Lead [mm]</div> <div>Line 1</div> <div>23.0</div> <div>Line 2</div> <div>23.0</div> <div>Line 3</div> <div>23.0</div> <div>Line 4</div> <div>23.0</div> </div> <div> <div>Print path per cycle [mm]</div> <div>0.338</div> </div> <div> <div>Print delay [s]</div> <div>0.25</div> <div>0.25</div> <div>0.25</div> <div>0.25</div> </div> <div> <div>Speed [mm/s]</div> <div>250</div> </div> </div> <p>Imprint is printed as soon as the trigger button is pressed. Start-up length is the distance in mm from the print triggering to the start of printing.</p>

	<p>The default setting of 23 mm corresponds to the distance from the centre of the print head to the indicator of print position (print start) on the machine.</p>
<p>External cycles (Printing start with release)</p>	<div> <div>Print start Print trigger Encoder External cycles</div> <div> <div>Lead [mm]</div> <div>Print delay [s]</div> <div> <div>Line 1</div> <div>23.0</div> <div>0.25</div> </div> <div> <div>Line 2</div> <div>23.0</div> <div>0.25</div> </div> <div> <div>Line 3</div> <div>23.0</div> <div>0.25</div> </div> <div> <div>Line 4</div> <div>23.0</div> <div>0.25</div> </div> <div> <div>Print path per cycle [mm]</div> <div>0.338</div> <div>Speed [mm/s]</div> <div>250</div> </div> </div> <p>Imprint is printed as soon as the trigger button is pressed.</p> <p>The print path per cycle (mm) describes the path by which the medium to be printed on or the printer is moved per cycle signal in mm. The printer can also be operated with an external clock generator (e.g. rotary encoder).</p> <p>The print path per cycle must be determined and defined.</p> <p>Note: In order not to affect the print quality, there should be at least one cycle signal per 0.338 mm print path (75 dpi).</p> </div>

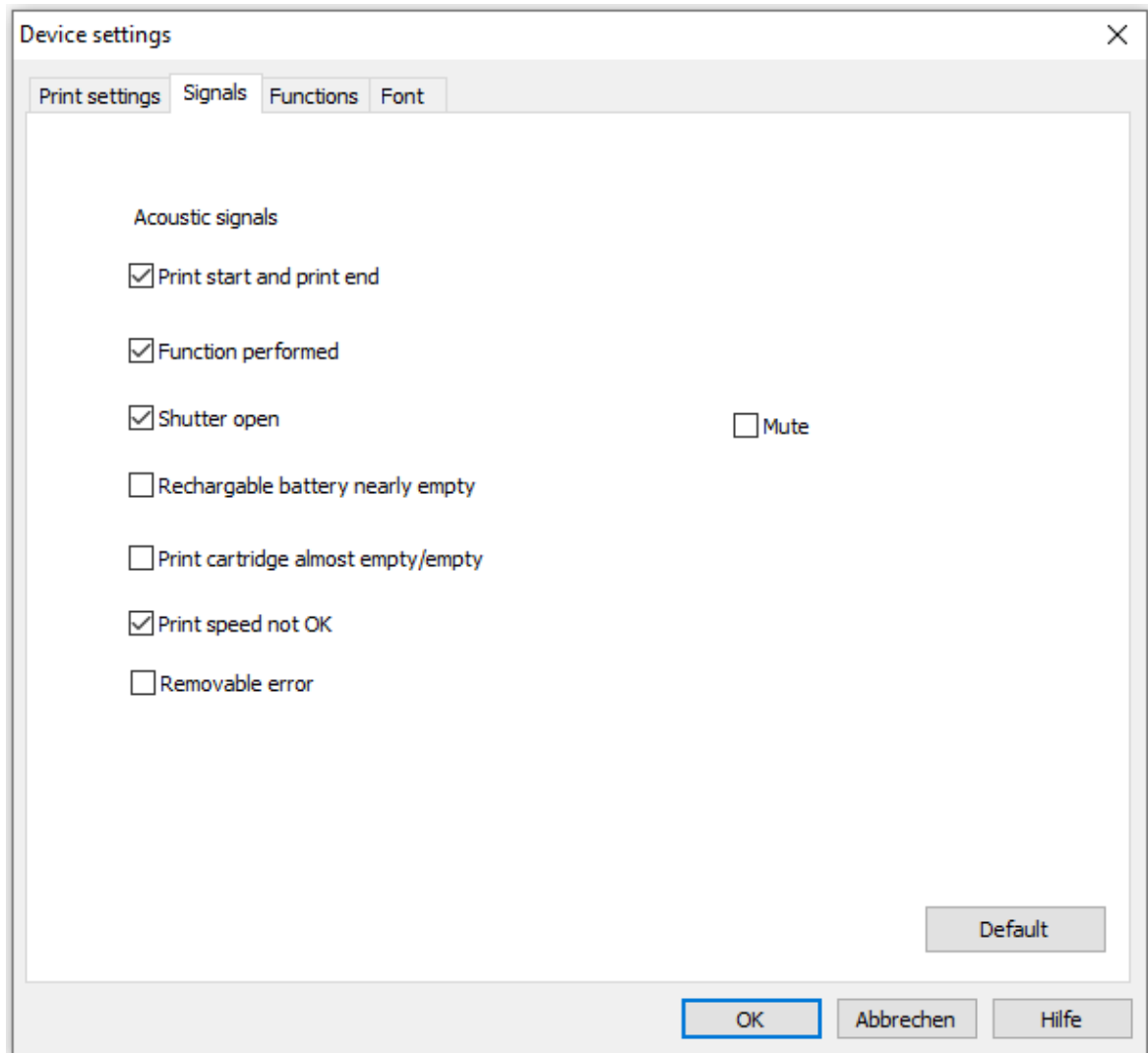


Detailed questions can be answered by the REINER service.

Function	Description
<p>Fixed speed (Printing start with release)</p>	<div> <div>Print start Print trigger Encoder Fixed speed</div> <div> <div>Lead [mm]</div> <div>Print delay [s]</div> <div> <div>Line 1</div> <div>23.0</div> <div>0.25</div> </div> <div> <div>Line 2</div> <div>23.0</div> <div>0.25</div> </div> <div> <div>Line 3</div> <div>23.0</div> <div>0.25</div> </div> <div> <div>Line 4</div> <div>23.0</div> <div>0.25</div> </div> <div> <div>Print path per cycle [mm]</div> <div>0.338</div> <div>Speed [mm/s]</div> <div>250</div> </div> </div> <p>Print delay is the empty distance in seconds until the start of printing</p> <p>Possible applications:</p> <ul style="list-style-type: none"> • Contactless printing (hands-free method) • Use in systems and devices in which the medium to be printed (e.g. conveyor belt) or the printer itself (e.g. linear drive) is moved at a constant speed during printing. </div>

The speed per second describes the time in which the medium to be printed or the printer is moved per second in mm.

5.3.5.2 Signals

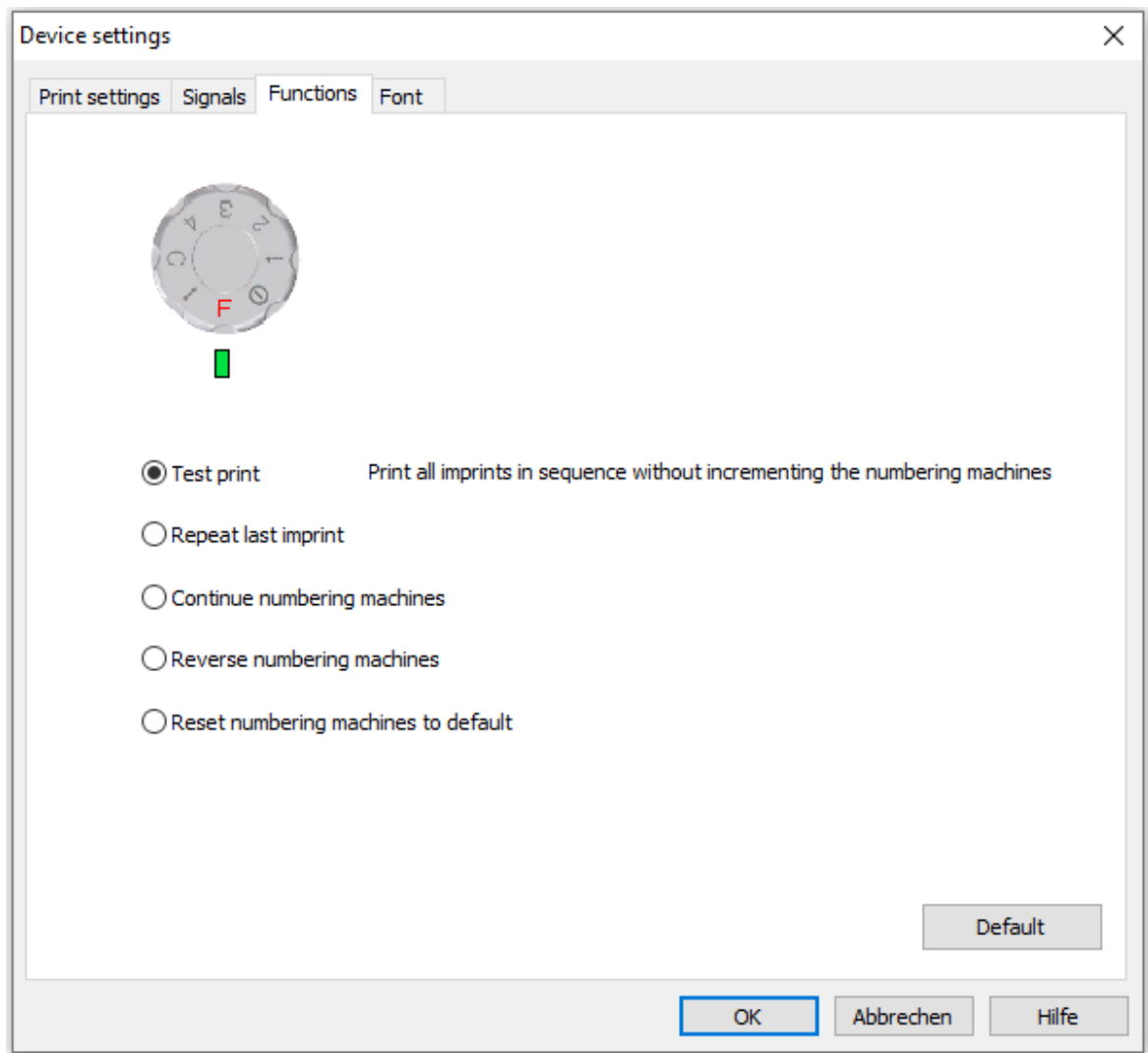


Activation or deactivation of acoustic signals for various events (refer to "[Acoustic signals](#)").

"Function performed": see tab "[Functions](#)".

"Removable errors": see "[Acoustic signals](#)".

5.3.5.3 Functions



[Test print](#)

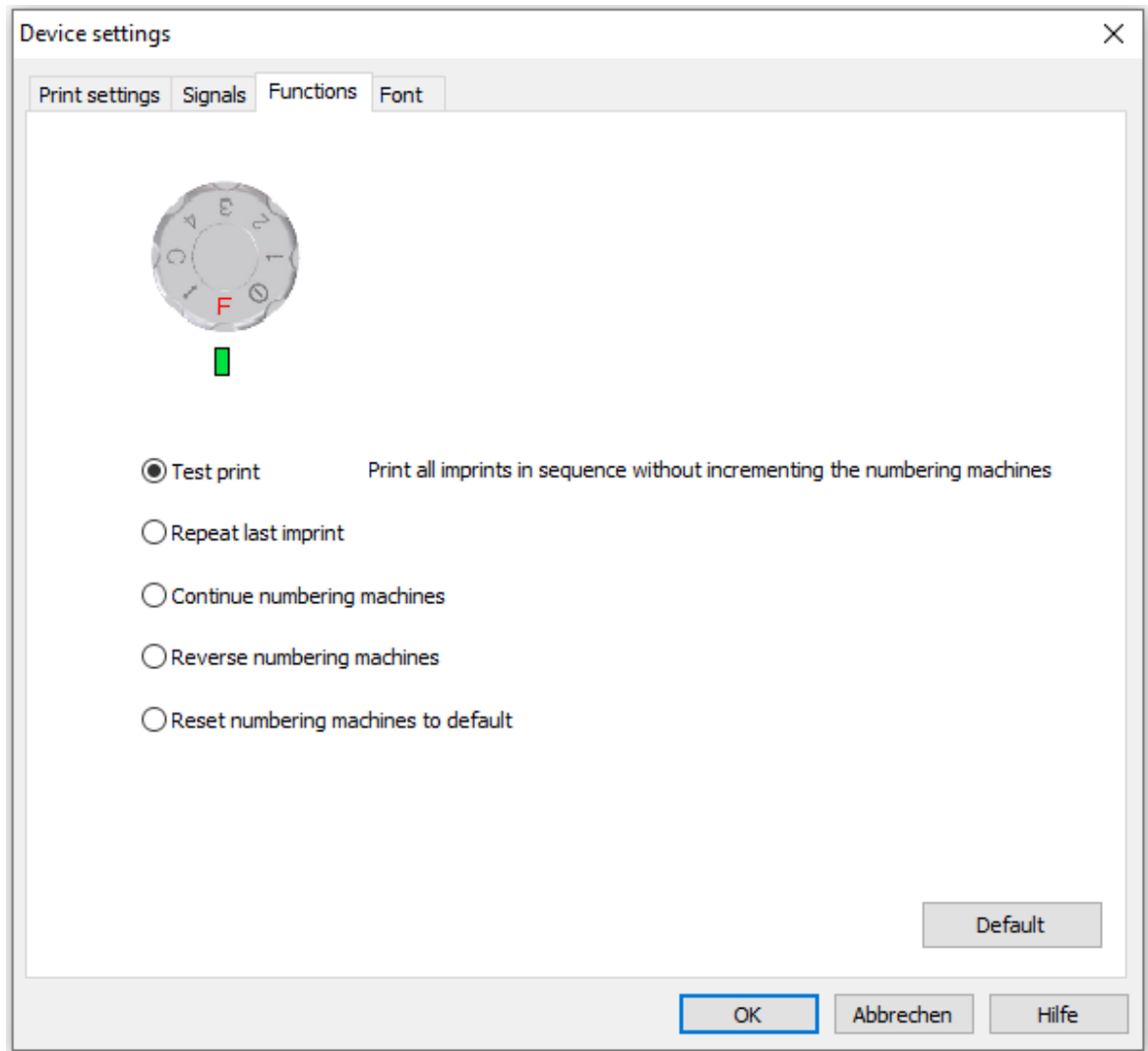
[Repeat last imprint](#)

[Continue numbering machines](#)

[Reverse numbering machines](#)

[Reset numbering machines to default](#)

5.3.5.3.1 Test print



With the function "Test print", all print images can be executed as test prints.

The numbering machines are not switched forward.

The printing starts with print image no. 1 and is switched to the next print image with each re-triggering.

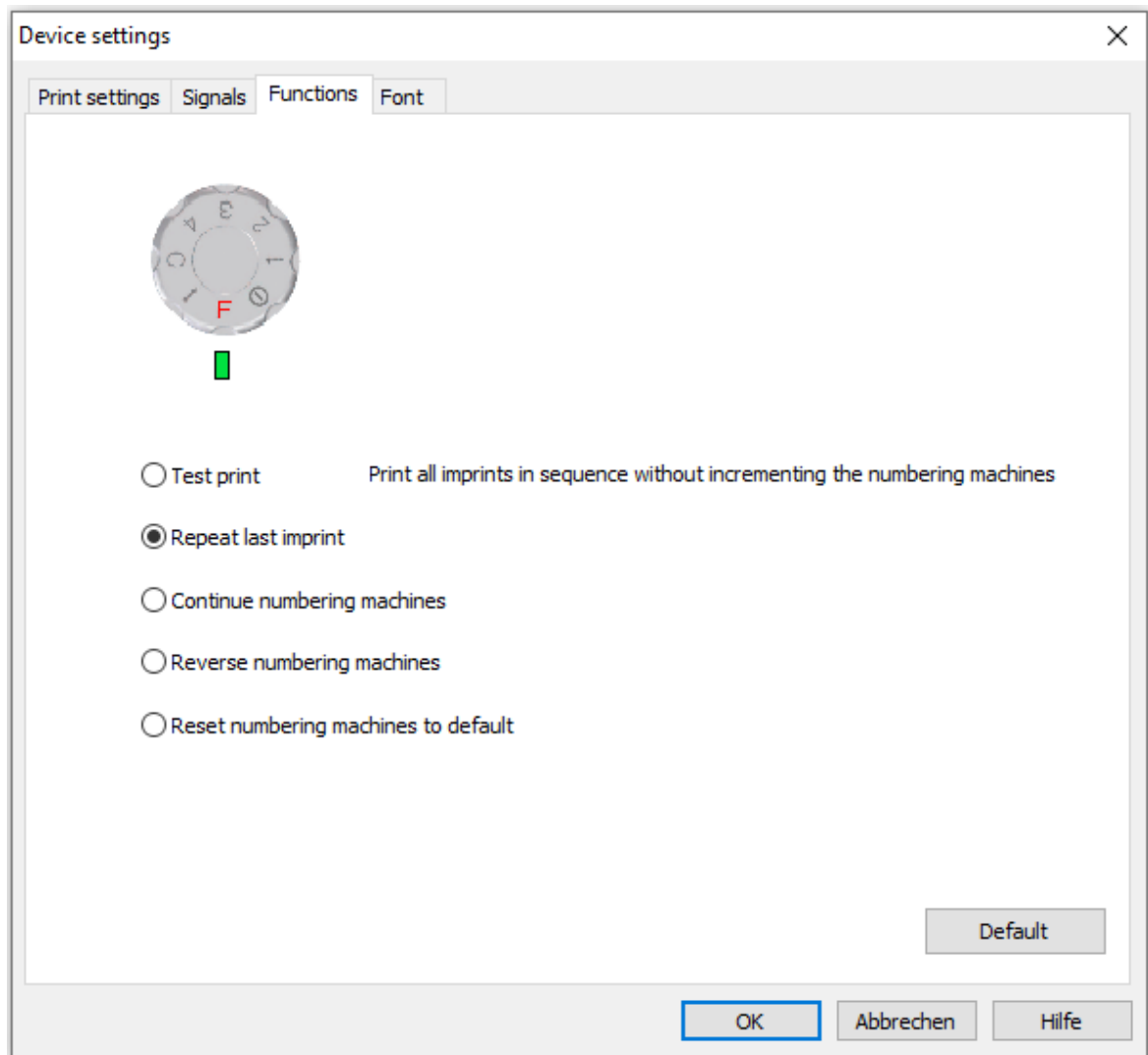
(Hold down the closure lever while executing the "test print" function)

For the REINER 940, "Test print" is carried out as follows:

- ▶ Turn setting wheel to position **F**.
- ▶ Open the nozzle cover [11](#).
- ▶ Print the 4 print images one after another starting with the last one used.


[i](#) To stop the function "Test print", release the closure lever.

5.3.5.3.2 Repeat last imprint

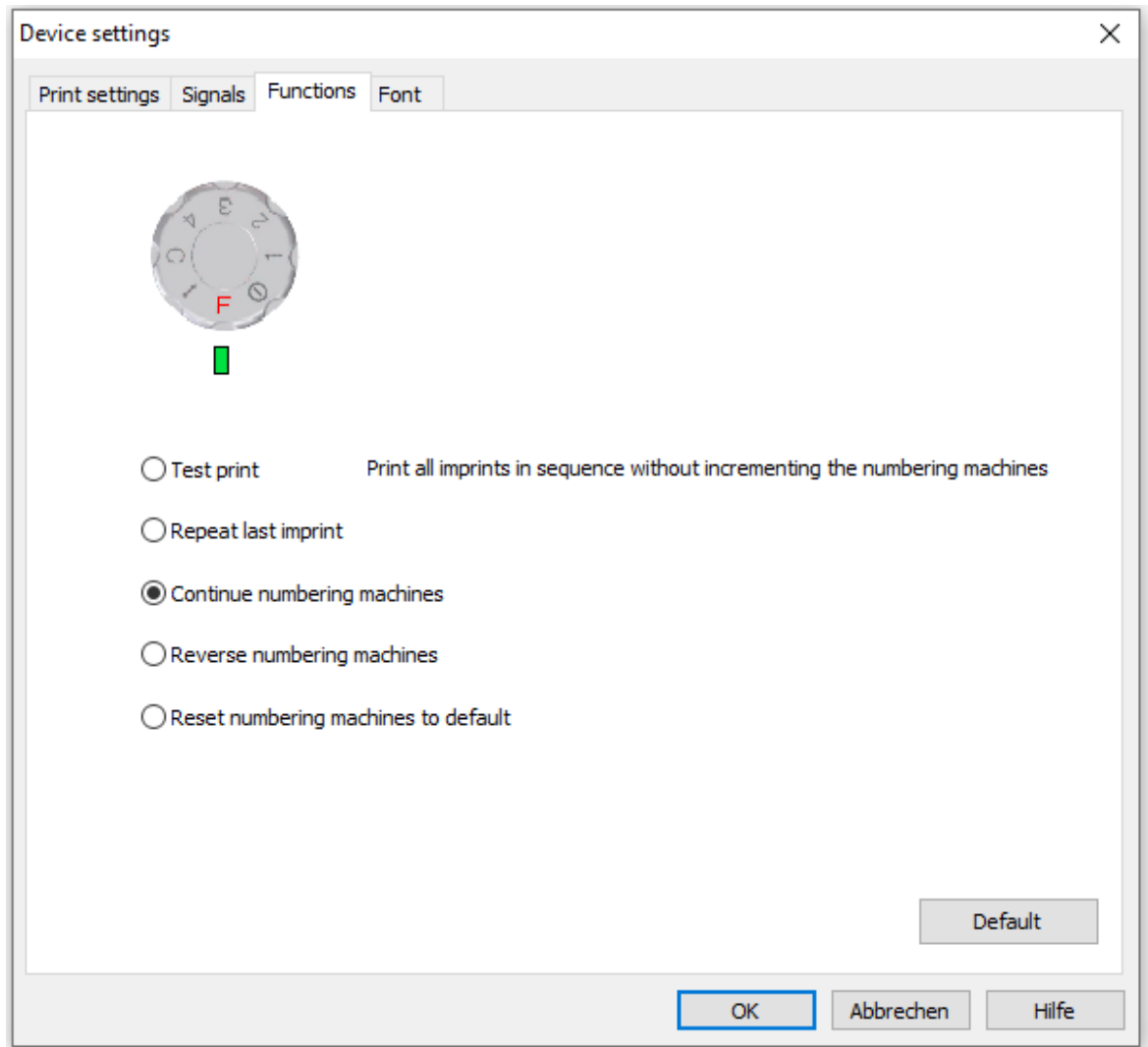


With the function "Repeat last imprint" the last printed imprint can be repeated.
The numbering machines are not switched forward.
The time is continuously updated.

For the REINER 940, "Repeat last imprint" is carried out as follows:

- ▶ Turn setting wheel to position **F**.
- ▶ Push the trigger button.
Nozzle cover  opens.

5.3.5.3.3 Continue numbering machines



With the function "Continue numbering machines", the numbering machine can be switched forward manually.

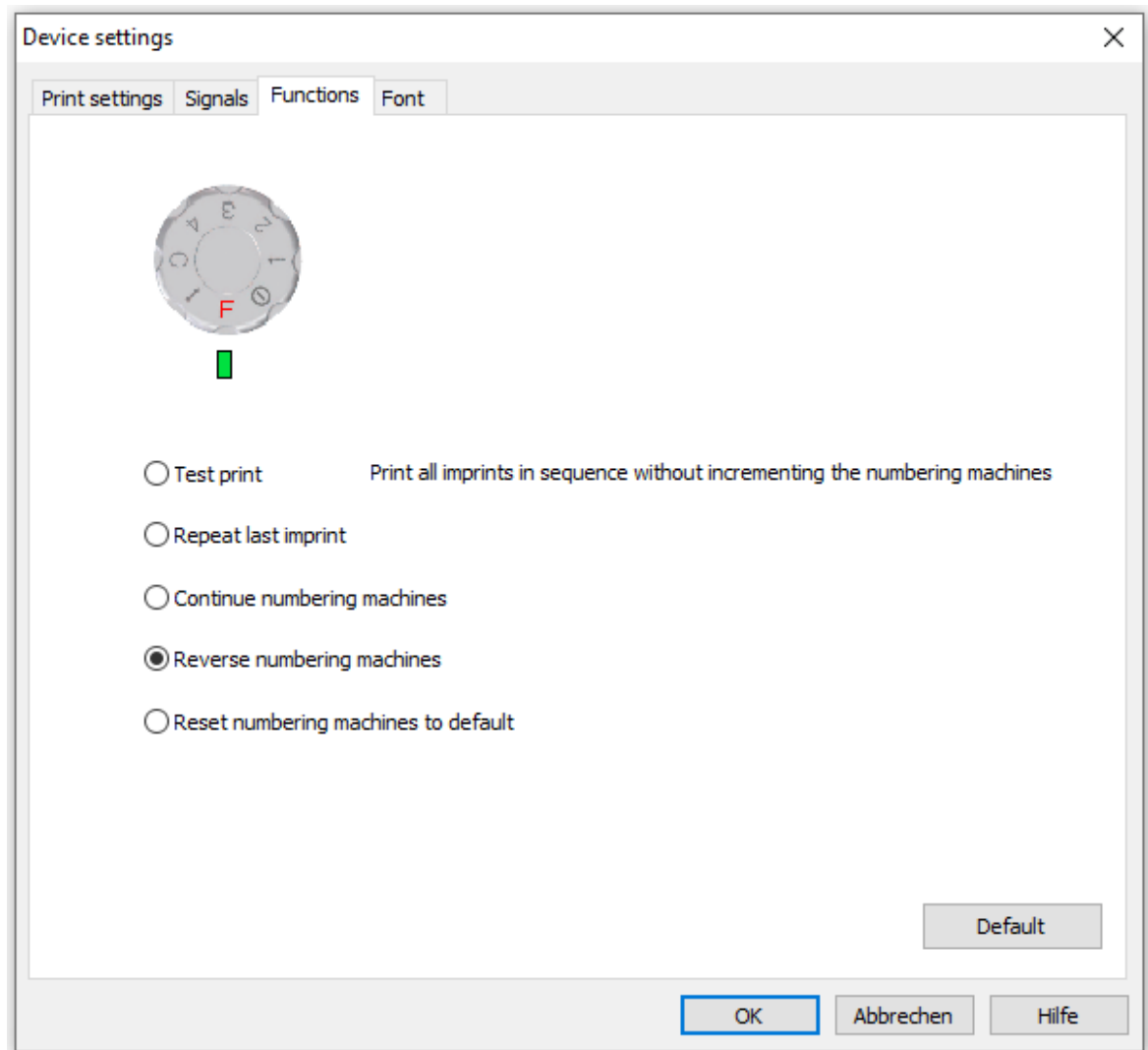
For the REINER 940, "Continue numbering machines" is carried out as follows:

- ▶ Turn setting wheel to position **F**.
- ▶ Open the nozzle cover [11](#).
- ▶ Push the trigger button.

An acoustic signal confirms that the numbering machine has switched forward.


i When the function is executed, the numbering machines of the last printed line are switched forward by the set step width in their counting direction. The repetitions of the numbering machines are reset to the set repetition value. If the numbering machine is to be switched forward manually only, 'Repeat' must be set to '0'.


5.3.5.3.4 Reverse numbering machines



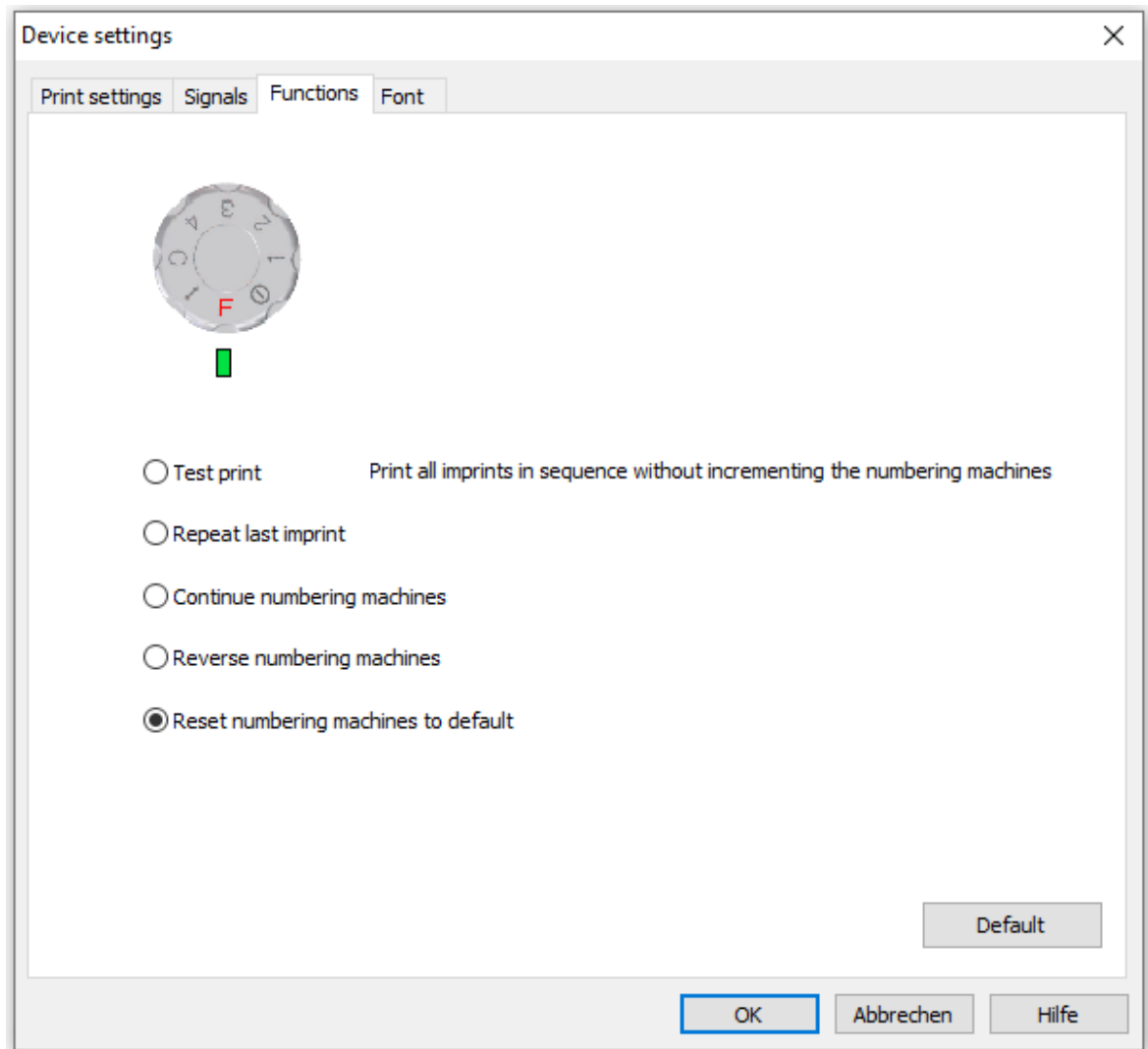
With the "Reverse numbering machines" function the numbers can be switched back manually in a quick and easy way.

For the REINER 940, "Reverse numbering machines" is carried out as follows:

- ▶ Turn setting wheel to position **F**.
- ▶ Push the trigger button.
Nozzle cover  opens.
An acoustic signal confirms that the numbering machine has switched forward.

 When the function is executed, the numbering machines of the last printed line are switched back by your set step width in their counting direction. The repetitions of the numbering machines are reset to the set repetition value.

5.3.5.3.5 Reset numbering machines to default



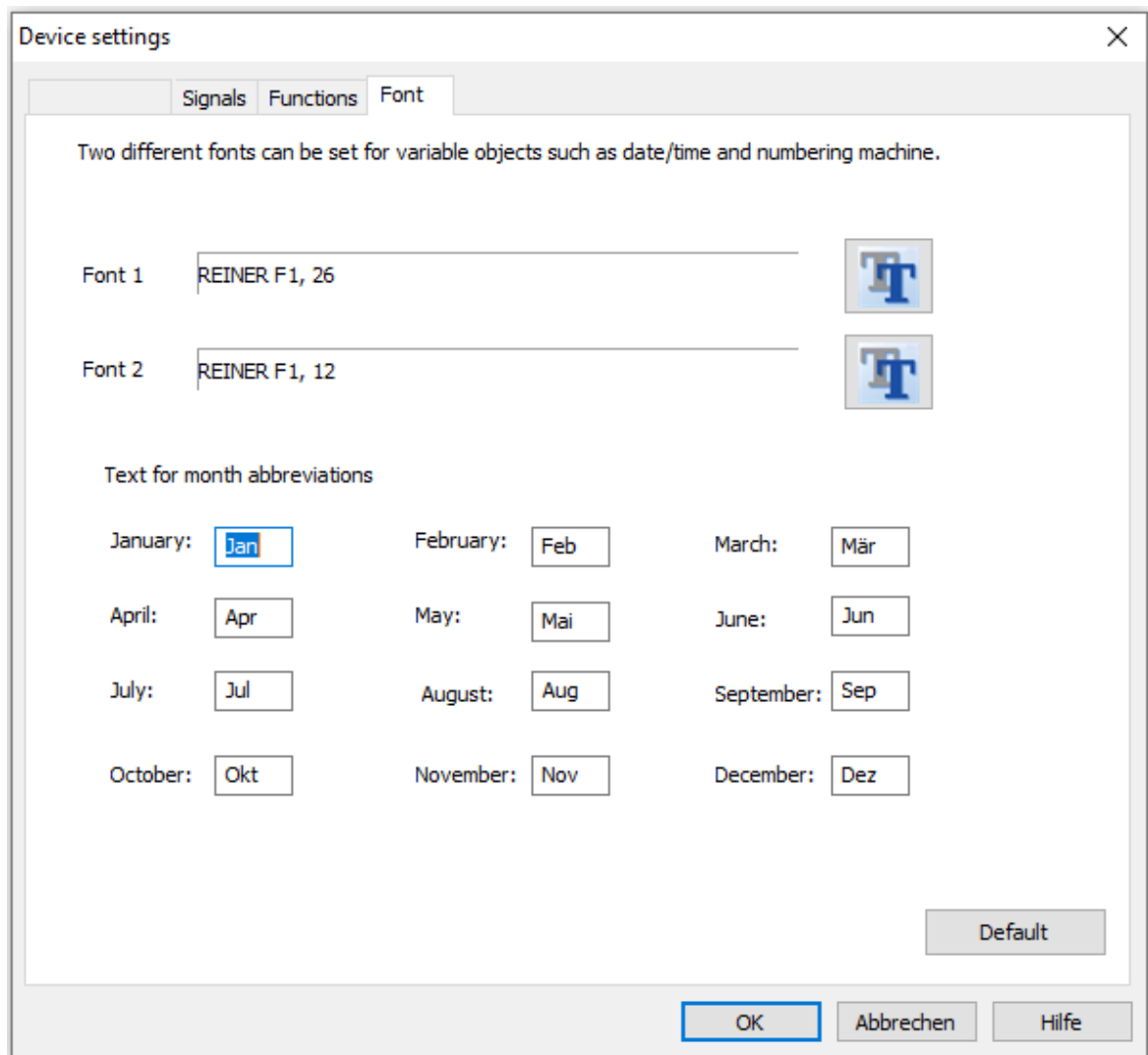
With the function "Reset numbering machines to default" all numbering machines can be reset. The original value is the minimum value for numbering machines that are counting up and the maximum value for numbering machines that are counting down.




For the REINER 940, "Reset numbering machines to default" is carried out as follows:

- ▶ Turn setting wheel to position **F**.
- ▶ Open the nozzle cover [11](#).
- ▶ Push the trigger button.

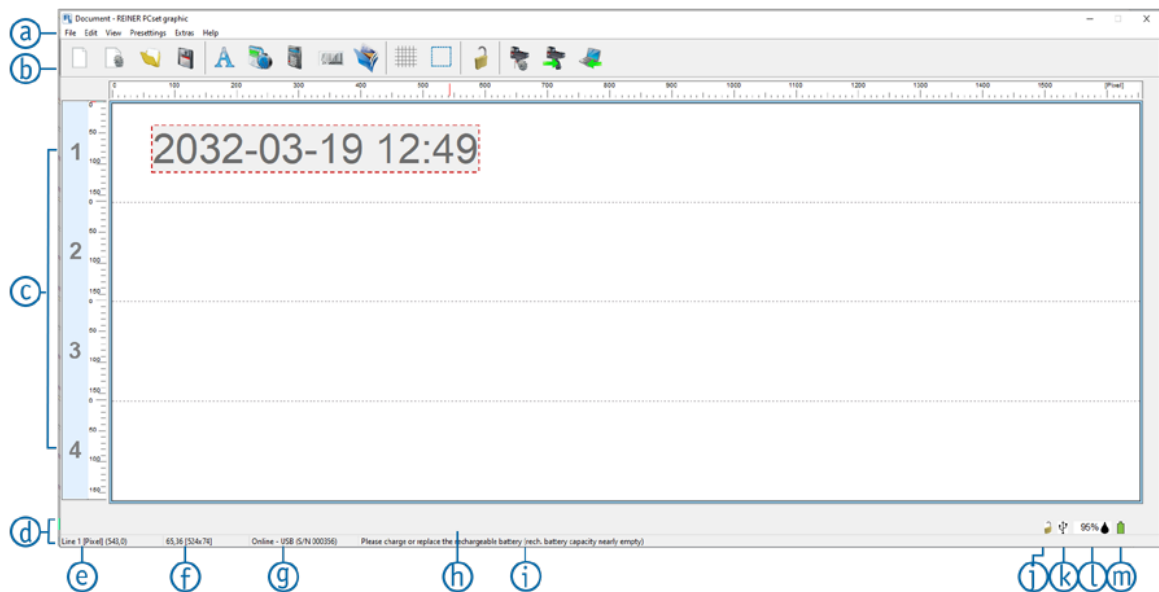
An acoustic signal confirms that the numbering machine has been reset.












5.3.5.4 Font











-  With "Font 1" and "Font 2", fonts can be stored for the objects date/time and numbering machine.
-  Month abbreviations can be adjusted individually.
-  The font configuration window also appears in the menu bar. Here, select the "File" tab and click on "Device settings - Font".

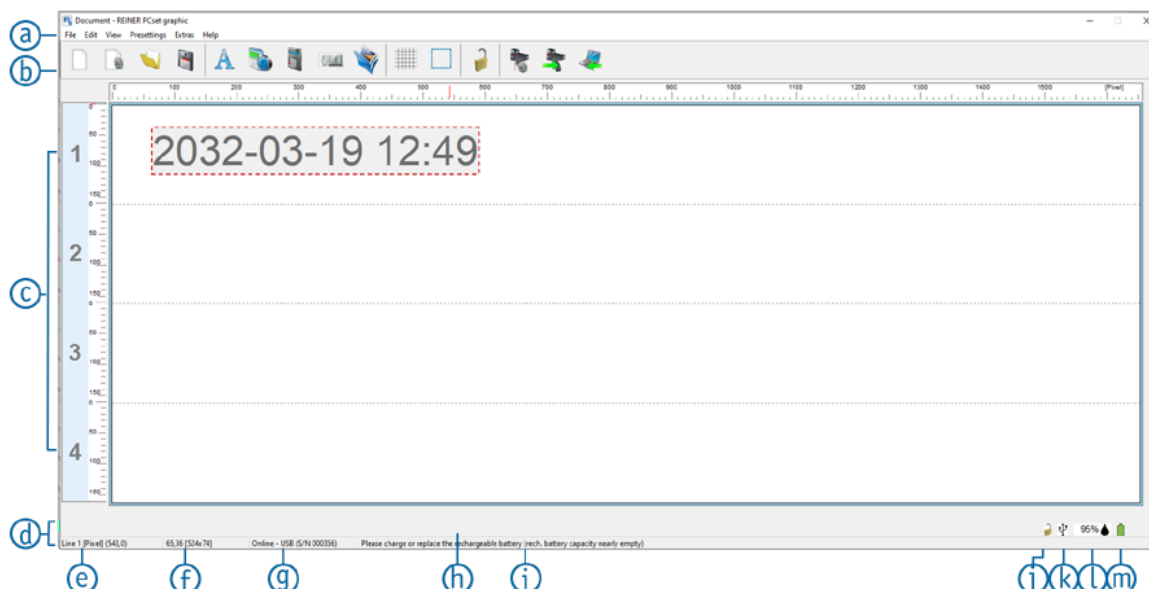
5.3.6 Status indicators



Function	Description	Note
Transfer process 	Indicates the progress of the transfer process of the print image	
Device security 	Protects print data from misuse	The device security status depends on the status in which the device is.
	Device security is activated	Print images cannot be transferred and printed without entering a password.
	Device security is activated	Print images can be transferred and printed without entering a password.
Connection 	Indicates whether the connection is established via USB or Bluetooth	
	Connection is established via USB	
	Connection is established via Bluetooth	
Ink level indicator 	Indicates the fill level of the print cartridge in %	
Charge indicator 	Indicates the charge state of the battery	
	Battery is full	
	Battery is charging	

	Battery is empty	
Cursor position 	Displays the position in the print line	The unit of measurement depends on the unit set under Grid .
Object position [object size] 	Position and size of the active/selected object	
Online/offline 	Indicates whether the device is connected to the software	
Online USB (S/N) 	Device (with serial number) is connected via the USB cable	
Online Bluetooth (S/N) 	Device (with serial number) is connected via Bluetooth	
Offline 	<ul style="list-style-type: none"> - Device not switched on - USB cable not plugged in - Rechargeable battery empty 	
Device messages 	Here you will find notes for troubleshooting	

5.3.7 Device messages



 Device messages  in the status indicator.

General warnings

Warnings	Cause	Correction
Please charge or replace the battery	Battery capacity almost empty	▶ Charge battery
Please check the imprint	Print cartridge almost empty	▶ Insert new print cartridge
Please insert a new print cartridge	Print cartridge almost empty	▶ Insert new print cartridge

Warnings for which an imprint is no longer possible

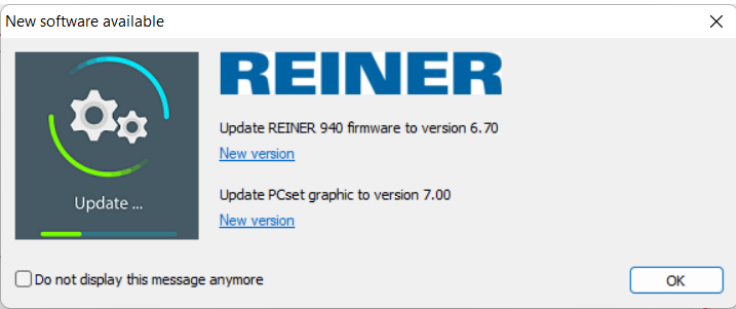
Warnings	Cause	Correction
Please insert print cartridge	<ul style="list-style-type: none"> - No or defective print cartridge - Incorrect print cartridge 	▶ Inserting the print cartridge
Please remove and re-insert print cartridge	<ul style="list-style-type: none"> - Print cartridge not inserted correctly - Ink level write error 	▶ Insert print cartridge correctly
Please recharge battery	<ul style="list-style-type: none"> - Rechargeable battery empty - No battery/defective battery 	<ul style="list-style-type: none"> ▶ Charge battery ▶ Inserting/replacing the battery
Device error xxx	Device error	<ul style="list-style-type: none"> ▶ Disconnect the device from the power supply for approx. 3 sec (also batteries and USB connection). <p>If the error remains after activation,</p>

		have the device inspected by the REINER support.
--	--	--


Warnings displayed in a message box

Warnings	Cause	Correction
Transfer error	Device defective or missing connection	▶ Check device/connections and try again
Error in barcode generation	Too few characters entered	▶ 7 characters required ▶ 12 characters required

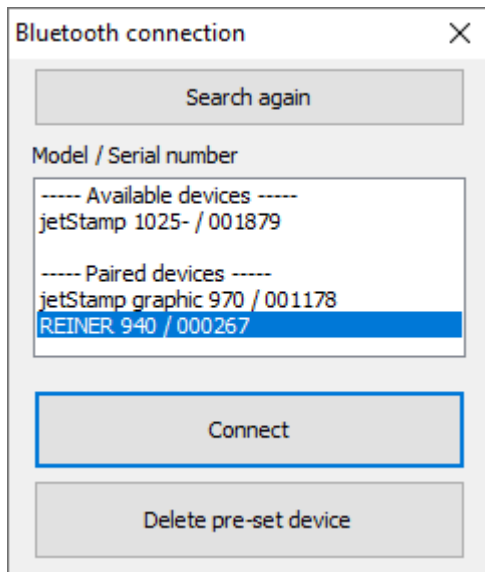
Note update

Note	Details
	<p>This dialogue is automatically displayed if a newer PCset graphic version is available.</p> <p>This dialogue is also displayed if the connected device is not on the latest firmware version.</p> <p>The "New version" internet link leads to the REINER website where you can download the latest version.</p>

5.4 Establishing Bluetooth connection

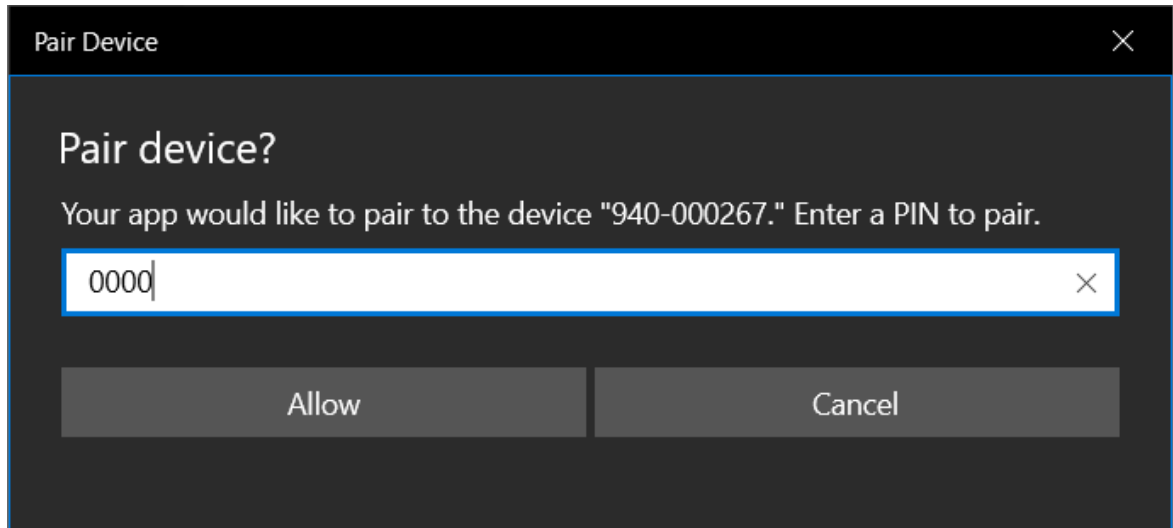
- ▶ To establish a Bluetooth connection, activate Bluetooth (see "[Activate Bluetooth](#)").
- ▶ Open PCset graphic.
- ▶ In the menu bar  select the "File" tab and click "Search for REINER Bluetooth device".
An automatic search is started.
All devices found, as well as all devices that have already been connected to the PCset graphic, are displayed with model and serial number.


 If the REINER 940 is not found, a new search run can be started with the "Search again" button.




- To establish a Bluetooth connection, click on "Connect".
A pop-up menu "Connection via a Bluetooth device is established" opens in the Windows status bar.

- ▶ To enter the factory password "0000", click on the pop menu "Connection via a Bluetooth device is established".
The window for entering the password opens.



- ▶ Enter the factory password "0000".
The REINER 940 is connected to the PCset graphic.
-  The connected device is saved as a permanent connection so that the PCset graphic always connects to this device as soon as it is available.
- ▶ To cancel the permanent connection, click the "Delete pre-set device" button in the Bluetooth dialogue or establish a connection with another device.

5.5 Example workflow: Generating the print image

 When you load your own print images, all 4 of the print images stored in the device will each be shifted. The factory pre-installed print images can be uploaded to the software in advance and saved as XML files ("[Menu commands Toolbar](#)").

[Configuring the print image](#)



[Transfer the print image to REINER 940](#)

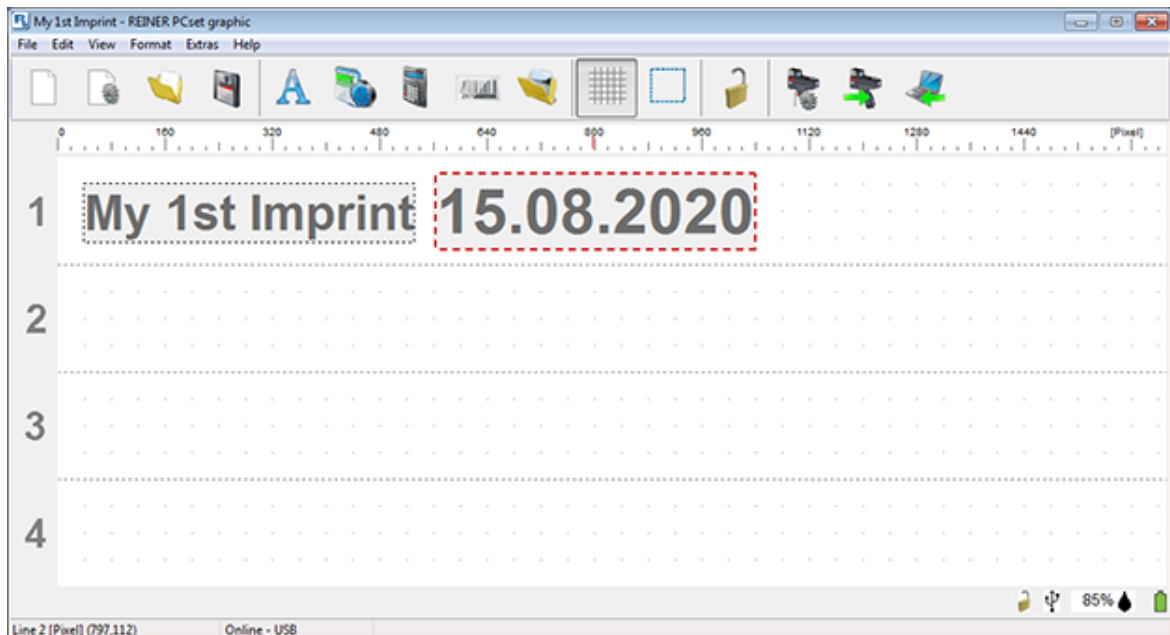
[Printing the print image](#)

[Number of imprints](#)

5.5.1 Configuring the print image


Insert text and date/time

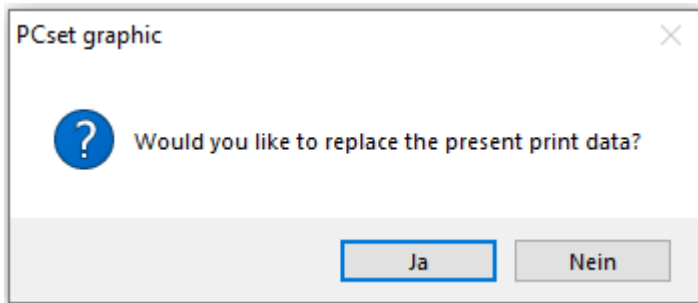
- ▶ To create a text object, use the left mouse button to drag the **text symbol**  to line 1 (print image 1) and release it at the desired position.
- ▶ Write the desired text into the text field.
- ▶ To place the text object, double-click in the text field.
- ▶ To create a date/time object, use the left mouse button to drag the **date/time symbol**  into line 1 (print image 1).
- ▶ Release at desired position.



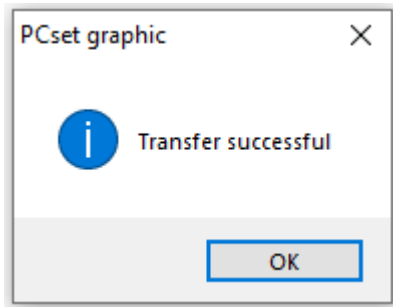
 For more commands and objects see "[Toolbar](#)" and "[Objects](#)".

5.5.2 Transfer print image to REINER 940

- ▶ Click on the **transfer icon** .
- ▶ Confirm the following dialogue window with **Yes**.



If the transfer was successful, the following message appears after a few seconds.



- ▶ Confirm the message with **OK**.
The print image is stored in the REINER 940 and can be printed.

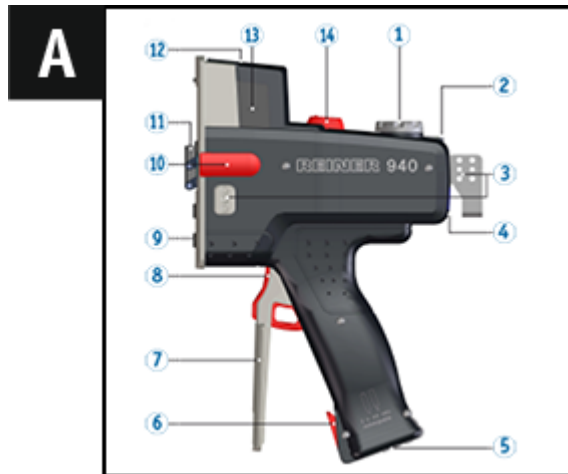
5.5.3 Printing the print image

WARNING

Possible blindness due to eye contact with ink.

- ▶ Do not point the nozzles 18 of the REINER 940 at people's faces!

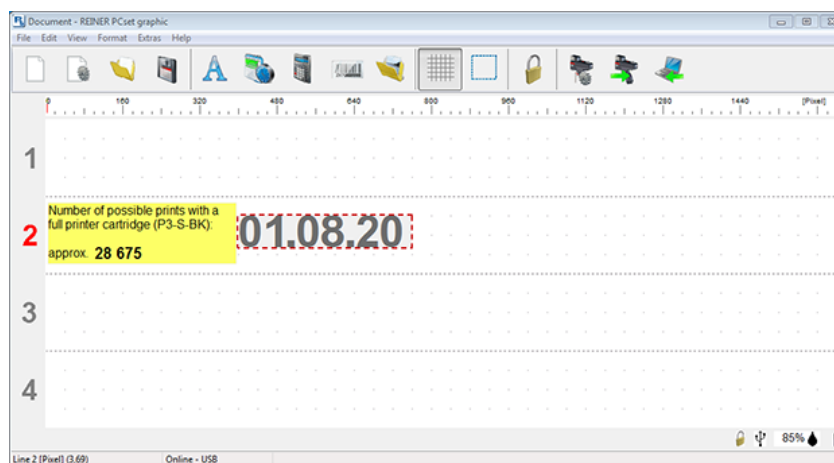
Print the print image ⇒ Fig. A



- ▶ Turn the setting wheel 1 to position 1.
- ▶ Pull the closure lever 7 towards the device.
- ▶ Place REINER 940 on the printing material.
- ▶ Actuate the print trigger 8.
- ▶ Unwind the device at a constant speed in print direction.
The example print image 1 has been printed.

 Observe acoustic signal of the *jetStamp graphic 970* (see "[Acoustic Signals](#)").

5.5.4 Number of imprints







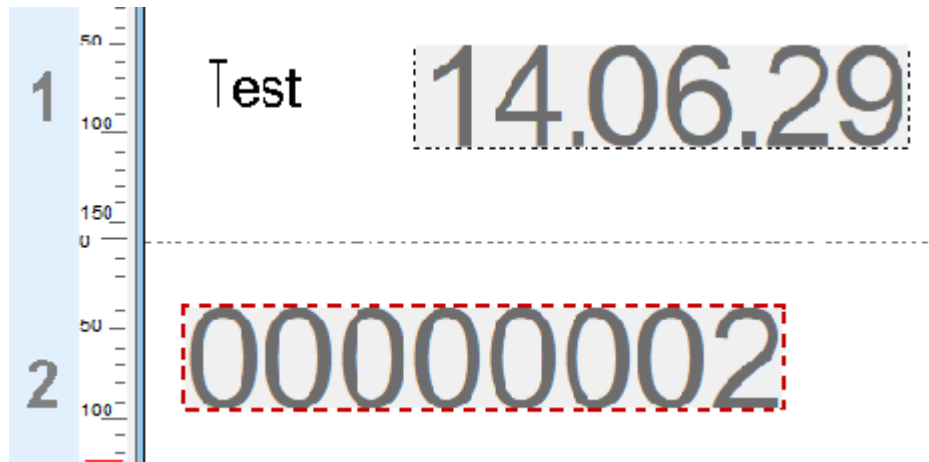
The number of possible imprints with a full print cartridge is displayed by positioning the mouse pointer on the print image number.

5.6 Objects settings



 The settings of the objects can also be selected in the menu bar  by clicking the "Format" tab or via the context menu.

 The active object is framed in red in the print area.



[Text](#)

[Date/Time](#)

[Numbering machine](#)

[Barcode](#)


[Graphic](#)

5.6.1 Text



Creates text fields.

The object can be positioned exactly by using the grid.

 If the grid is enabled, the font size is adjusted.
Example: If a grid of 4 lines is set, the text object has the height of one line.


[Presettings](#)

[Context menu text object](#)

[Generate graphic](#)

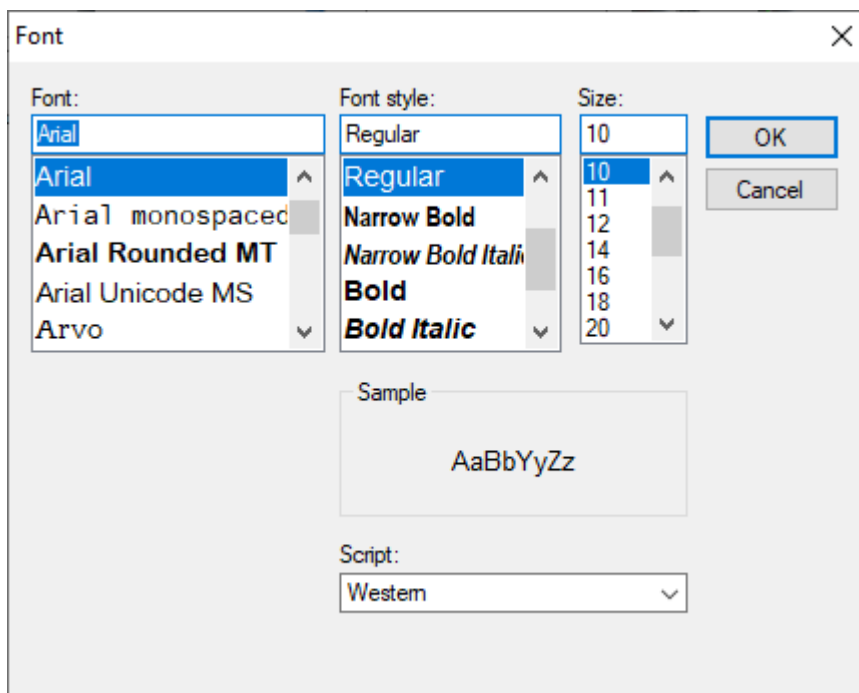
5.6.1.1 Presettings

Changed presettings apply to all future text objects.

- In the menu bar  select the "Presettings" tab and click "Text".
The configuration window for texts appears.

The configuration window for "Texts" is divided into four sections:

- Font
- Font style
- Font size
- Script



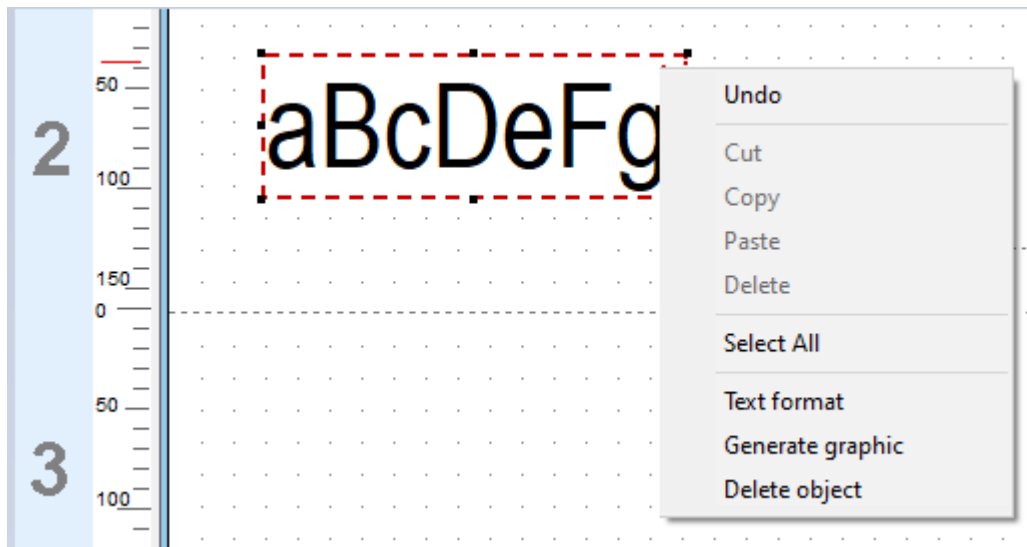
Presettings text

Function	Description
Font	Selection from the list of installed fonts on the current system.
Font style	Select the desired font style from the list (standard, bold, italic or bold italic).
Font size	Select or enter the font size in points.
Script	Displays a list of available language scripts for the specified font.


5.6.1.2 Context menu text object

If a text object is inserted ("[Objects](#)"), the configuration corresponds to the default settings (refer to "[Presettings](#)"). The context menu can be used to individually set each text object deviating from this.

- To open the context menu, right-click the desired text object.
The context menu opens as in the following figure.



Function	Description
Undo	Undo the input.
Cut	Cuts out the selected area.
Copy	Copies the selected area.
Paste	If there is a text in the clipboard, it will be pasted.
Delete	Deletes the selected area.
Select all	Marks the entire text.
Text format	To change the font.
Generate graphic	Converts the text to a graphic and fixes it at the current position. Note: the text cannot be edited anymore after conversion.
Delete object	Deletes the object.


 Enter or double-click fixates the object and is therefore inactive.

Inactive object



Function	Description
Copy	Copies the object.
Edit	Object becomes active and can be edited.
Generate graphic	Converts the text to a graphic. Note: the text cannot be edited anymore after conversion.
Delete object	Deletes the object.

5.6.1.3 Generate graphic

 Text and barcode objects can be converted into graphics. Graphics are fixed and can no longer be moved. Limited editing is possible via the additional function "Selection".

- ▶ Click the object with the right mouse button.
- ▶ Select "Generate graphic".
The object has been converted to a graphic.

5.6.2 Date/Time




Font, font style, font size ("[Font](#)") and format can be set.

The date/clock time format can be globally preset.

Additionally, deviating settings can be performed for every single date/clock time object ("[Context menu date/clock time object](#)").

 A maximum of five date/time objects can be placed.


 The daylight saving time for Europe is preset at the factory and can be changed directly in the PCset graphic software under Menu - [Extras](#).

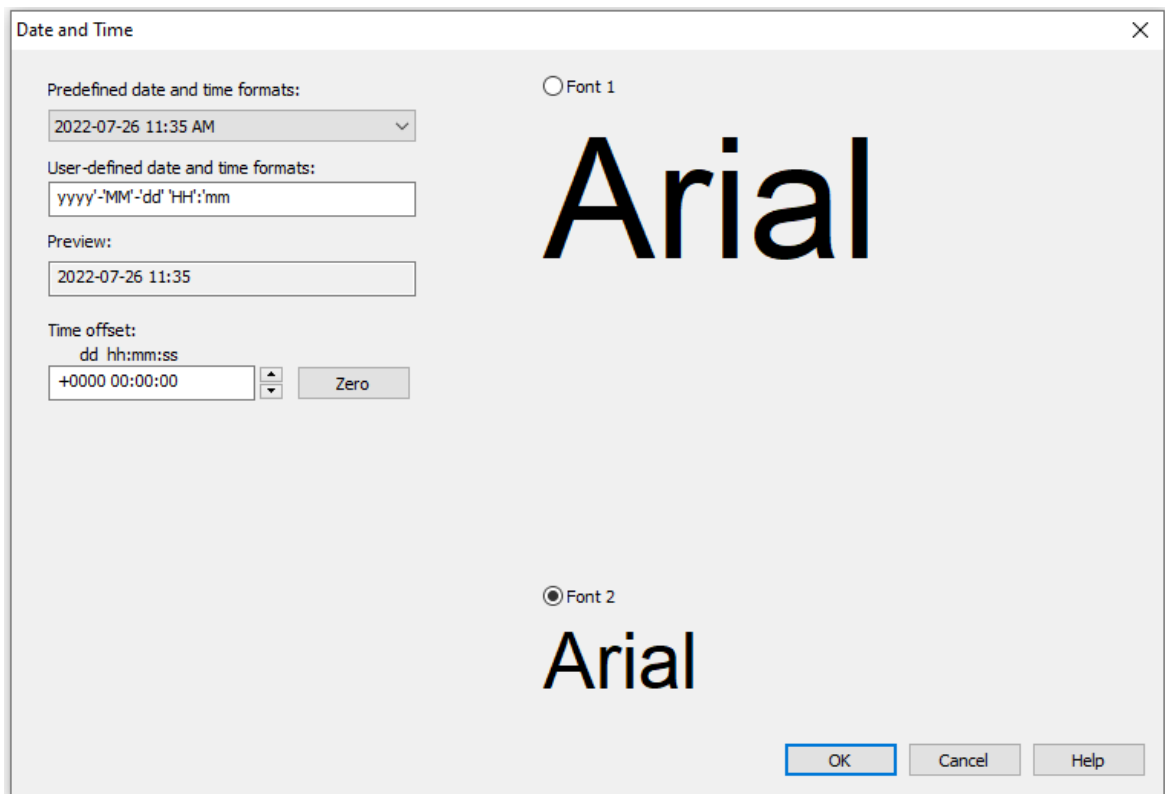
[Presettings](#)

[Context menu date/time object](#)

5.6.2.1 Presettings

Changed presettings apply to all future date/time objects.

- ▶ In the menu bar  select the "Presettings" tab and click "Date/time".
The configuration window for date and time appears.



Function	Description
Predefined date and time formats	List of preconfigured formats. Selection by clicking.
User-defined date and time formats	Shows the selected format in the draft view. The format can be manually configured. One abbreviation of a category each from the following table "Format abbreviation" can be used once. Additional characters (also spaces) are inserted by being included in simple apostrophes ('). For verification purposes, whether or not the entered format is "OK" is displayed above the input field.
Preview	Preview of the selected format with the current system date.

Time offset	<p>The configuration of an offset for date and time can be used, for example, to automatically calculate expiration dates.</p> <p>Enter or select offset, refer to example.</p>
-------------	---

Example for time offset:

Inactive offset:

User-defined date and time formats:

yyyy'-MM'-'dd' 'HH':mm

Preview:

2021-04-13 12:10

Time Offset:

dd hh:mm:ss

+0000|00:00:00

Zero

Example: for a shelf life of 1 year, the entry is made with +0365:

User-defined date and time formats:

yyyy'-MM'-'dd' 'HH':mm

Preview:

2022-04-13 12:09

Time Offset:

dd hh:mm:ss

+0365|00:00:00

Zero

The set values are added to the current system date. The result appears under the preview function.

Format abbreviation




Function	Description
dd	Day of the month with two figures (01 to 31)
ddd	Calendar day with three figures (001 to 365) Example: 28 May 2019 = 148.2019
MM	Month of the year with two figures (01 to 12)
MMM	Abbreviation for the month (up to 3 characters)
yy	The last two figures of the year (00 to 99)
yyyy	Complete year (0000 to 9999)
HH	Hour with two figures (00 to 23)

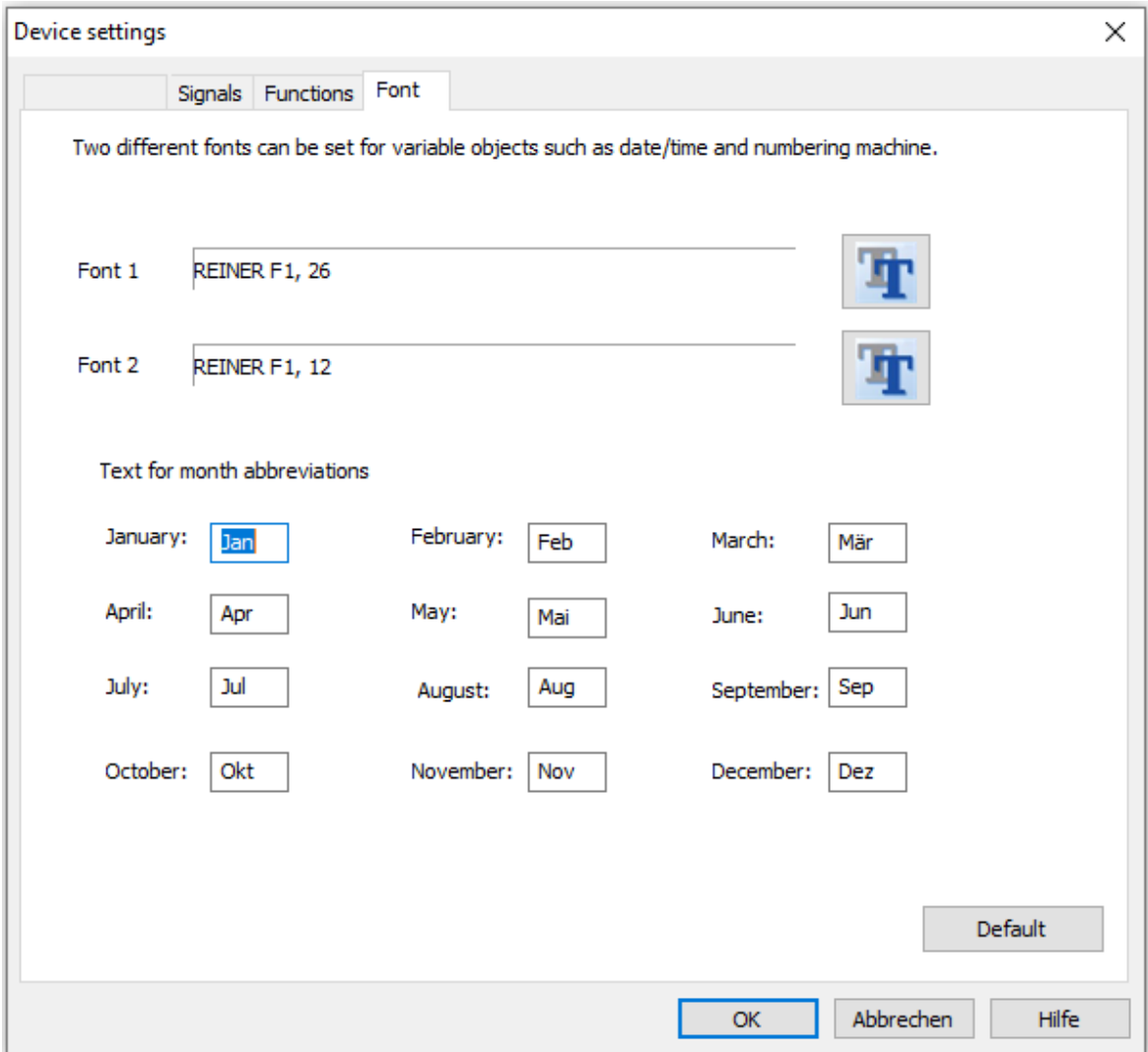
hh	Hour with two figures (01 to 12)
mm	Minutes with two figures (00 to 59)
ss	Seconds with two figures (00 to 59)
t	One character for twelve-hour format with the letters A or P
tt	Two characters for twelve-hour format with the letters AM or PM

5.6.2.1.1 Font

 With "Font 1" and "Font 2", fonts can be stored for the objects date/time, numbering machine.

Changed fonts affect all future objects.


"Font 1" and "Font 2" are configurable in the menu bar  by clicking the tab "File → Device settings → Font" or in the toolbar  via the button  (see "Font").




Device settings

Signals Functions **Font**

Two different fonts can be set for variable objects such as date/time and numbering machine.

Font 1 REINER F1, 26 

Font 2 REINER F1, 12 

Text for month abbreviations

January: February: March:

April: May: June:

July: August: September:

October: November: December:

Default

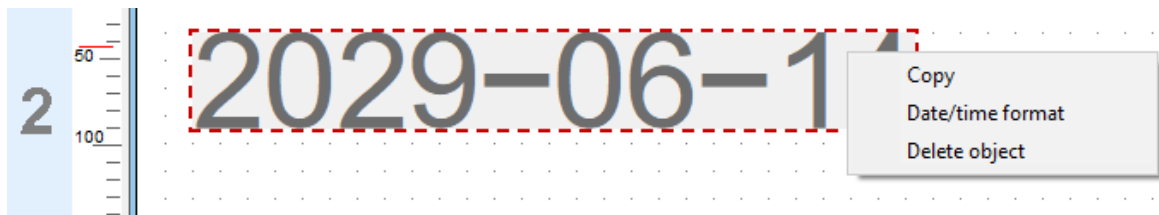
OK Abbrechen Hilfe

 Month abbreviations can be adjusted individually.

5.6.2.2 Context menu date/time object

If a date/time object is inserted ("[Objects](#)"), the configuration corresponds to the default settings ("[Presettings](#)"). The context menu can be used to individually set each date/clock time object deviating from this.

- To open the context menu, right-click the desired date/time object.
The context menu opens as in the following figure.



Function	Description
Copy	Copies the object.
Date/time format	Opens the configuration window for date and time for the selected date/time object.
Delete object	Deletes the object.

5.6.3 Numbering machine



The numbering machine is used for sequential numbering.

Starting value, repetitions, step and step direction, as well as font, font style and font size ("[Font](#)") can be set. The numbering machines format can be globally preset.

Additionally, deviating settings can be performed for every single numbering machine object ("[Context menu numbering machine object](#)").

i A maximum of five numbering machine objects can be placed.

i The numbering machine status of a numbering machine is incremented **after** each imprint according to the set step, repetitions and counting direction.

Note: The following configuration can produce nonsensical print images:


- Print sequence "Print lines in sequences"
- Numbering machines linked to each other, each with different repetitions

[Presettings](#)

[Context menu numbering machine object](#)

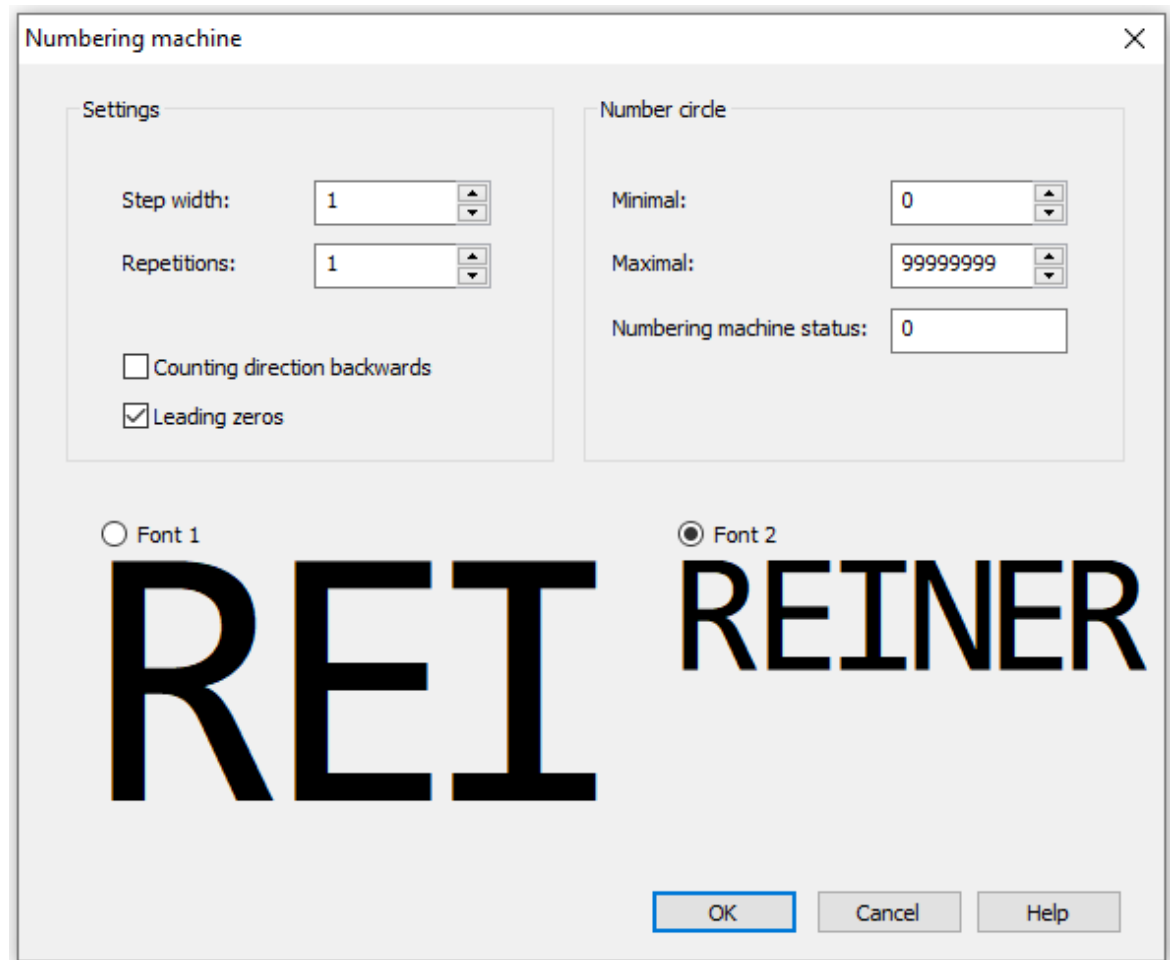
5.6.3.1 Presettings

Changed presettings apply to all future numbering machine objects.

- Select the tab format and click "Numbering machine" in the menu bar .
- The configuration window for numbering machines appears.

The configuration window for numbering machines is divided into three sections:

- Settings
- Number circle
- Font



Numbering machine

Settings

Step width: 1

Repetitions: 1

☐ Counting direction backwards

☒ Leading zeros

Number circle

Minimal: 0

Maximal: 99999999

Numbering machine status: 0

☐ Font 1

☒ Font 2

REI REINER

OK Cancel Help

[Settings](#)

[Number circle](#)

[Font](#)

5.6.3.1.1 Settings

Function	Description
Step	Indicates the interval at which the numbering machine counts on (e.g. 1,4,7... in steps of 3).
Repetitions	Indicates the number of repetitions of a print image. If, e.g., the value 3 is set, the numbering machine remains on the same number for three imprints before it counts on. The repeat factor can be set from 0 to 99. The numbering machine switches on at the value 0.
Counting direction backwards	The numbering machine can count forwards (e.g. 10,11,12,...) or backwards (e.g. 10,9,8...).
Pre Zeros	Leading zeros can be suppressed or printed (e.g. 5 or 0000005). The number of printed figures depends on the maximums value set at "number circle".

5.6.3.1.2 Number circle

The number circle defines the value range in which a numbering machine counter.




When the maximum or minimum value is reached (for upwards or downwards counting numbering machine), the count is continued at the respective other end of the scale.

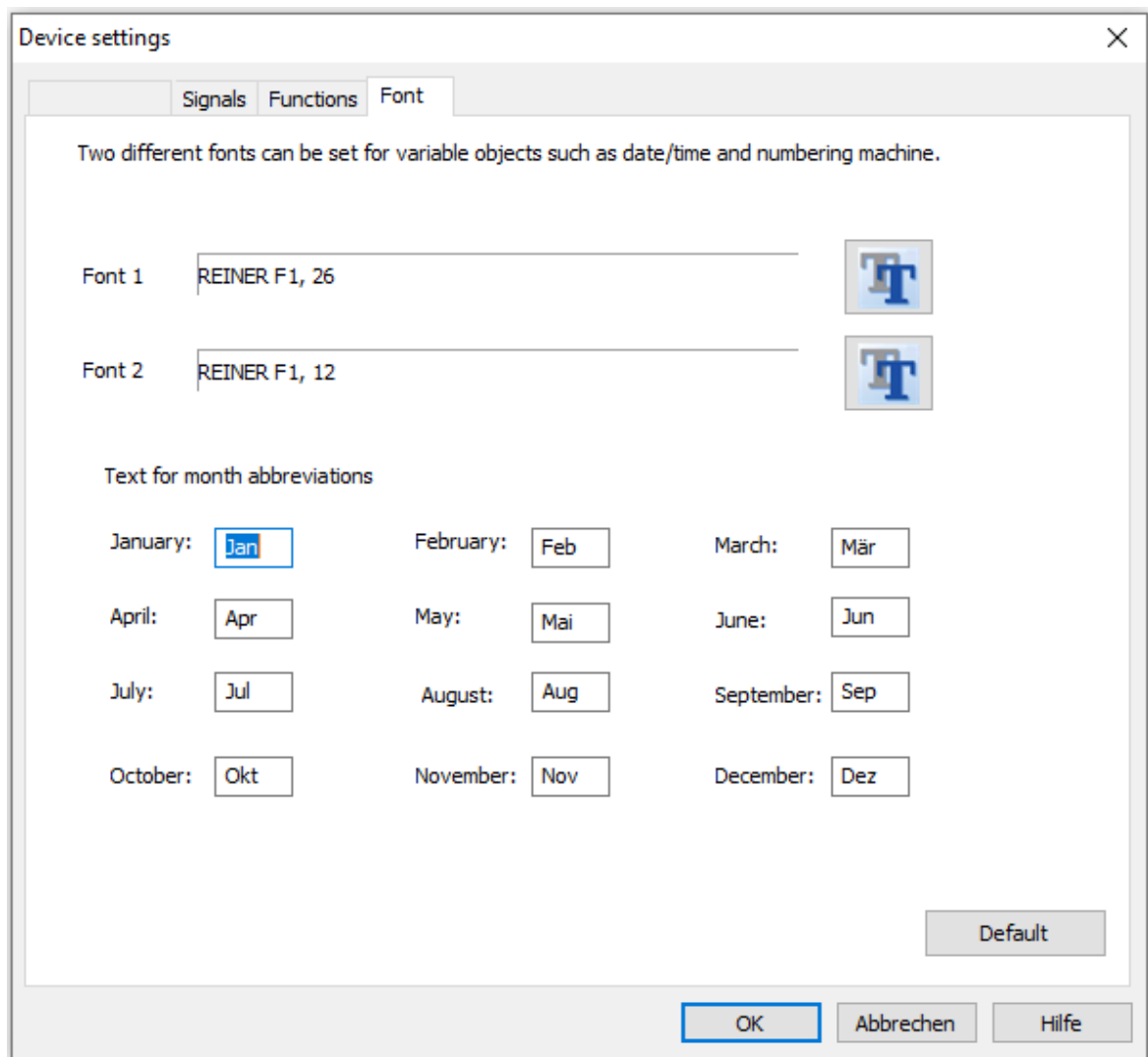
Function	Description
Minimum	This value marks the lower limit of the number circle.
Maximum	This value marks the upper limit of the number circle.
Numbering machine status	The current counter reading can be set within the defined value range.


5.6.3.1.3 Font

 With "Font 1" and "Font 2", fonts can be stored for the objects date/time, numbering machine.

Changed fonts affect all future objects.

"Font 1" and "Font 2" are configurable in the menu bar  by clicking the tab "File → Device settings → Font" or in the toolbar  via the button  (see "Font").

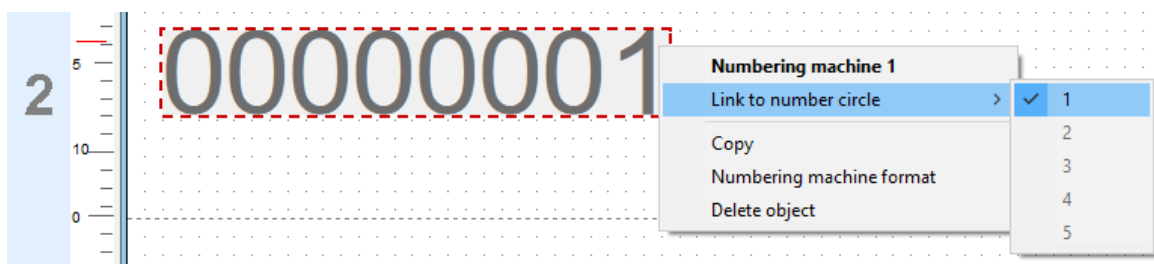


 Month abbreviations can be adjusted individually.

5.6.3.2 Context menu numbering machine object

If a numbering machine object is inserted ("[Objects](#)"), the configuration corresponds to the default settings ("[Presettings](#)"). The context menu can be used to individually set each numbering machine object deviating from this.

- To open the context menu, right-click the desired numbering machine object.
The context menu opens as in the following figure.



Function	Description
Numbering machine	The number of the selected numbering machine object (1-5) is displayed.
Link to number circle	<p>Each numbering machine (1-5) is first linked to a separate number circle (1-5).</p> <p>If several numbering machine objects are placed, the numbering machine selected can be linked to the number circle of another numbering machine. The dedicated number circle is rendered inactive by this.</p> <p>The link is used to synchronise the counter reading of different numbering machines.</p> <p>Each printing system of a linked numbering machine updates the counter reading of the shared number circle.</p>
Copy	Copies the object.
Numbering machine format	<p>Opens the numbering machine configuration window for the selected numbering machine.</p> <p>The numbering machine range can also be set deviating from each other for numbering machines that are linked to a shared number circle.</p> <p>Settings for the number circle can only be made here when the selected numbering machine is linked to the dedicated number circle.</p>
Delete object	Deletes the object.

5.6.4 Barcode



The PCset graphic can be used to generate different barcode formats.

Barcode type, character sequence, parameters and barcode size can be set.

The barcode object format can be globally pre-set.


[Presettings](#)

[Sequential numbering/dating](#)

[Context menu barcode object](#)

[Generate graphic](#)

5.6.4.1 Presettings

Global presettings can be set in the menu bar  via the "Presettings → Barcode" tab.

- OR -

Settings of already-inserted barcode objects can be called via the right mouse button "Barcode Format".

The configuration window for barcode appears.

The barcode window is divided into three sections:

Barcode



Function	Description
Type	Select the barcode type from the dropdown list.
Character sequence	Enter your desired character sequence.
Plain text preview	Indicates the character sequence without control characters.

Parameter

Function	Description
Display plain text	Inserts plain text below the barcode. The plain text is the character sequence that you have entered into the barcode object.
Display check digit	Indicates the check figure additionally in plain text. To be able to use this option, you need to activate display plain text. The check figure is the last figure or position of the barcode information.














Start character and Stop characters	Start and stop characters from A - D for the barcode type Codabar.
-------------------------------------	--

Barcode size

Function	Description
Height (mm)	Barcode height. Adjustable from 3.5 mm - 13.5 mm.
Module height	Height of the narrowest element in pixels (stroke or gap). Only for 2D barcodes.
Module width (pixels)	Width of the narrowest element in pixels (stroke or gap).
	The ratio of module height to module width is always the same.
	The module height and width can differ.
Module ratio	Ratio of wide to narrow element in calculation of the code length.
Module ratio (2/5 matrix)	Start and stop characters for the barcode type Codabar. May contain letters A - D.

5.6.4.2 Sequential numbering/dating

The PCset graphic differs between **fixed** and **variable** barcodes. Fixed barcodes do not change their content during printing. Variable barcodes are made up of the text as well as the date/time and/or numbering machine, which change during printing.

-  All in all, the variable barcode objects are limited to four. Fixed barcode objects can be inserted in any number.
-  The variable barcodes include the barcode types "2/5 Interleaved", "Code 39" and "Code 128 B".
-  Only **one** numbering machine and/or **one** date/time can be inserted in each barcode.
-  At first insertion of a numbering machine or a date/time object, the presettings of the respective objects are loaded.
-  In order to create a barcode object, left-click the **Barcode symbol**  and drag it into a line to the desired position.
-  Push right mouse button, select context menu "Barcode Format".
The configuration window for barcode appears.
-  To insert the **numbering machine**, pull it into the character sequence by drag & drop.
The line "Character sequence" shows %N for numbering machine.
-  To make the settings for the numbering machine, right-click %N or numbering machine.
The context menu opens (refer to "[Numbering machine](#)").
Make the desired settings and confirm with **OK**.
-  To insert date/time, pull it into the character sequence by drag & drop.
The line "Character sequence" shows %D for date/time.
-  To make the settings for the **date/time**, right-click %D or date/time.
The context menu opens (refer to "[Date/time](#)").
Make the desired settings and confirm with **OK**.
-  To save the settings made, click **OK**.
-  The red dash below the editing field determines the inserted position of the date/time and numbering machine object.

5.6.4.3 Context menu barcode object


If a barcode object is inserted (refer to "[Objects](#)"), the configuration corresponds to the presets. The context menu can be used to individually set each barcode object deviating from this.

- ▶ To open the context menu, right-click the desired barcode object.
The context menu opens as in the following figure.



Function	Description
Copy	Copies the object.
Barcode format	To change the barcode format.
Generate graphic	Fixates the barcode in the current position. Note: the barcode cannot be edited anymore after fixating.
Delete object	Deletes the object.

5.6.4.4 Generate graphic

 Text and barcode objects can be converted into graphics. Graphics are fixed and can no longer be moved. Limited editing is possible via the additional function "Selection".

- ▶ Click the object with the right mouse button.
- ▶ Select "Generate graphic".
The object has been converted to a graphic.

5.6.5 Graphic






Generates a graphic object.
The object can be positioned exactly by using the grid.

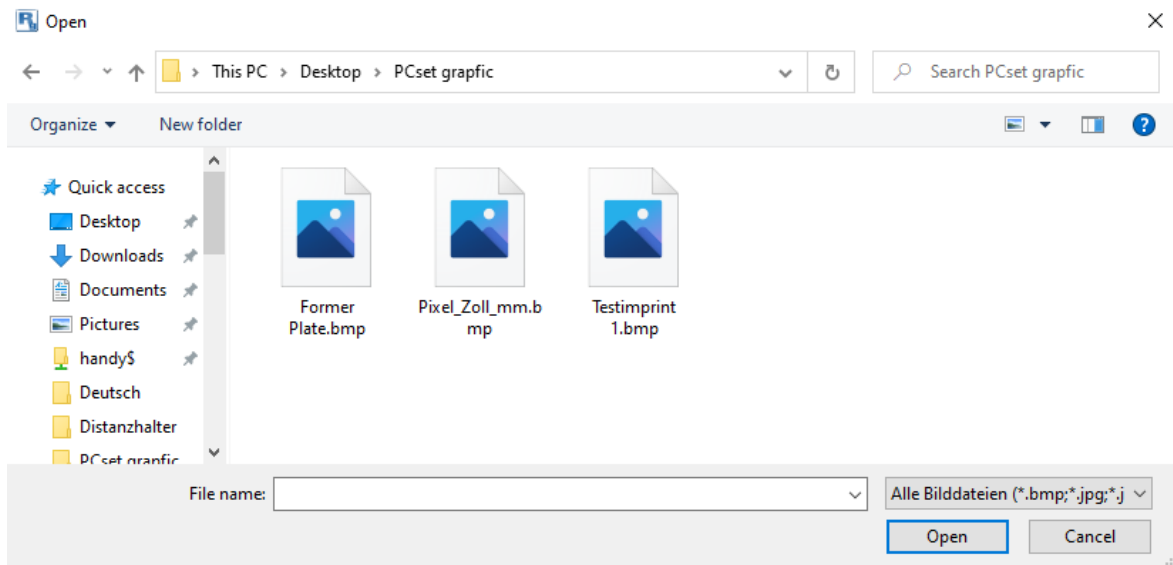
[Load graphic dialogue](#)

[Context menu graphic object](#)

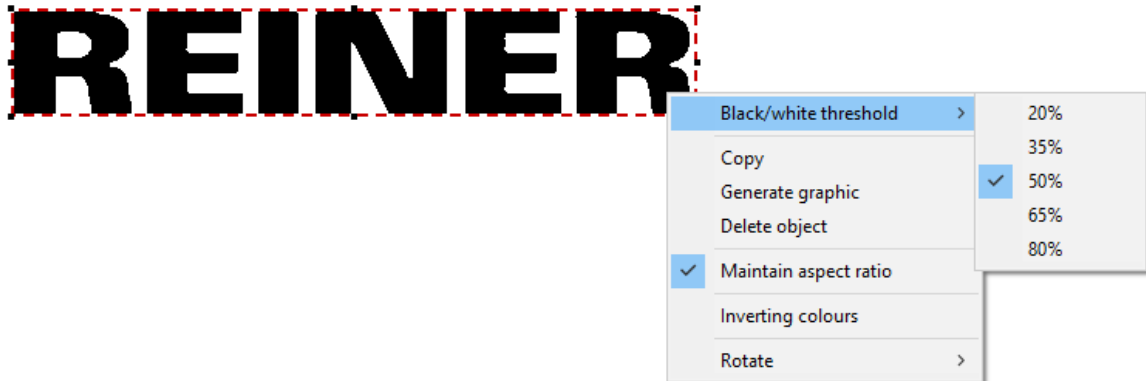
[Generate graphic](#)

5.6.5.1 Load graphic dialogue

-  Imported colour and grey scale images are converted to a black/white image when loaded within the application. The use of black and white images is recommended.
-  Only graphics of the file type BMP, JPG, TIF or GIF can be loaded. The graphics should have a resolution of 300 dpi so that they fit 1:1 into the print image.
-  For a distortion-free printout in optimal quality, a graphic should not exceed the maximum height of 160 pixels and the maximum width of 768 pixels.



5.6.5.2 Context menu graphic object



Function	Description
Black/white threshold value	Selection of the black/white threshold value.
Copy	Copies the object.
Generate graphic	Fixates the graphic at the current position. Note: the graphic cannot be edited anymore after fixating.
Delete object	Deletes the object.
Maintain aspect ratio	The aspect ratios always remain the same when resizing.
Inverting colours	Inverting colours: The colours of the graphic are reversed, black becomes white and white becomes black.
Rotate	Rotate right 90°, Rotate left 90°, Rotate 180°, Flip vertical and Flip horizontal.

5.6.5.3 Generate graphic

i Text and barcode objects can be converted into graphics. Graphics are fixed and can no longer be moved. Limited editing is possible via the additional function "Selection".

- ▶ Click the object with the right mouse button.
- ▶ Select "Generate graphic".
The object has been converted to a graphic.

6 Maintenance

[Changing the print cartridge](#)

[Cleaning the contacts of the print cartridge](#)

[Clean nozzles](#)

[Clean seal](#)

[Replace seal](#)

[Clean housing](#)

6.1 Changing the print cartridge

The ink level of the print cartridge is can be read in the status indicator **d** of the PCset graphic software .

i Different seals are required depending on the type of ink used (refer to "[Replace seal](#)").

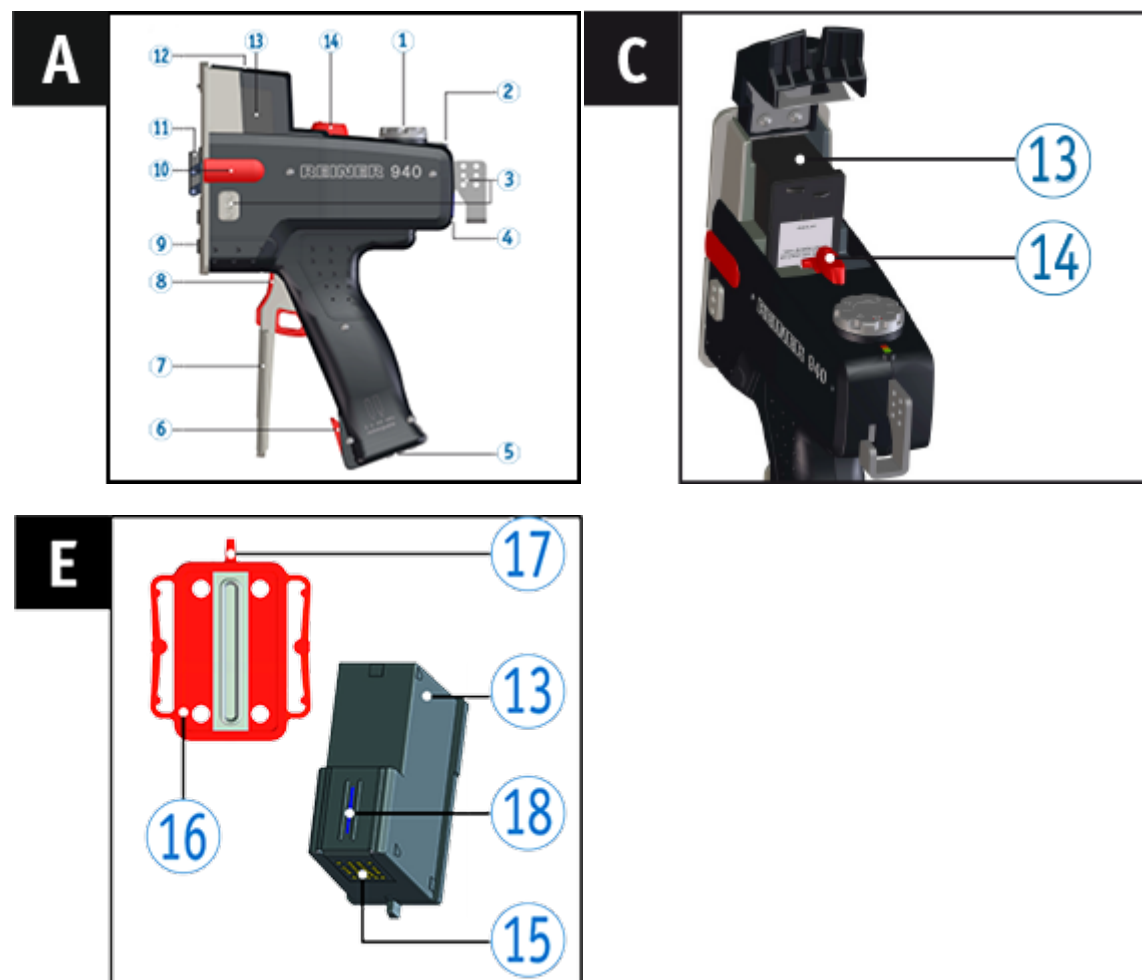
i Use seal of the enclosed print cartridge.

CAUTION

Damage to health caused by ingestion of ink.

- ▶ Do not swallow!
- ▶ Keep the print cartridge out of the reach of children!

Changing the print cartridge ⇒ Fig. **A** + **C** + **E**

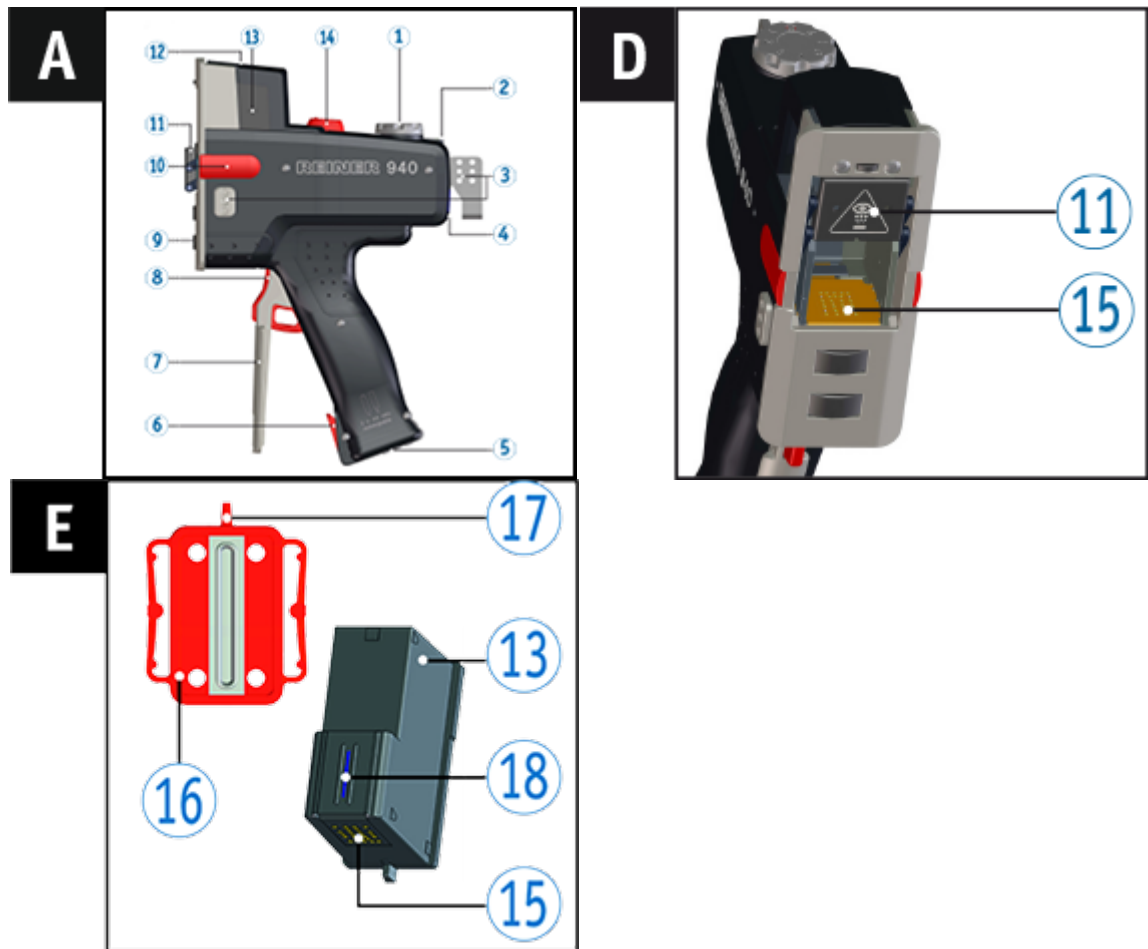


- ▶ Turn the setting wheel **1** to position **OFF**.
- ▶ Press the locking button for print cartridge cover **14** down to open the print cartridge cover **12**.
- ▶ Remove the print cartridge **13** from the device.

- ▶ Take a new print cartridge **13** from the packaging and remove the protective film or clip from the nozzles **18**.
- ▶ Insert the print cartridge **13**.
- ▶ Close the print cartridge cover **12**.

6.2 Cleaning the contacts of the print cartridge

Cleaning the contacts of the print cartridge ⇒ Fig. **A** + **D** + **E**



In rare cases, impurities on the contacts of the print cartridge **15** can cause incorrect printing results.

- ▶ Push down the print cartridge cover locking button **14**.
The latch of the print cartridge cover **12** is loosened.
- ▶ Fold open the print cartridge cover **12**.
- ▶ Remove the print cartridge **13** from the device.
- ▶ Push the locking lever **7** and latch the locking closure lever **6**.
- ▶ Clean the contact print cartridge **15** at the print cartridge **13** and inside the REINER 940 with a soft cloth, poss. slightly soaked in spirits.

6.3 Clean nozzles

If streaks or problems with the print quality occur, the ink may have dried on the nozzles ¹⁸.

Imprint without streaking



Imprint with streaking



[Automatic nozzle cleaning](#)

[Manual nozzle cleaning](#)

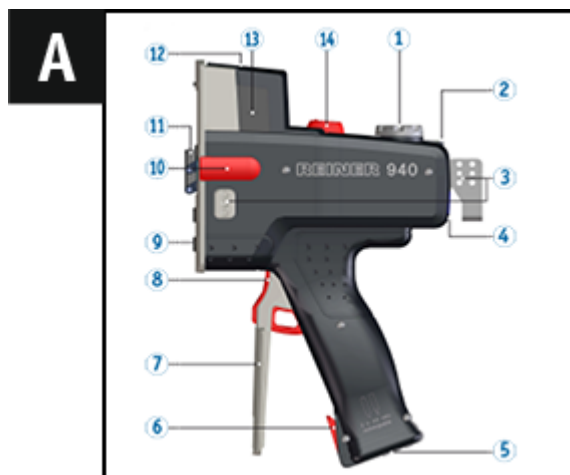
6.3.1 Automatic nozzle cleaning



Possible blindness due to eye contact with ink.

- ▶ Do not point the nozzles ¹⁸ of the REINER 940 at people's faces!

Trigger automatic cleaning mechanism ⇒ Fig. **A**

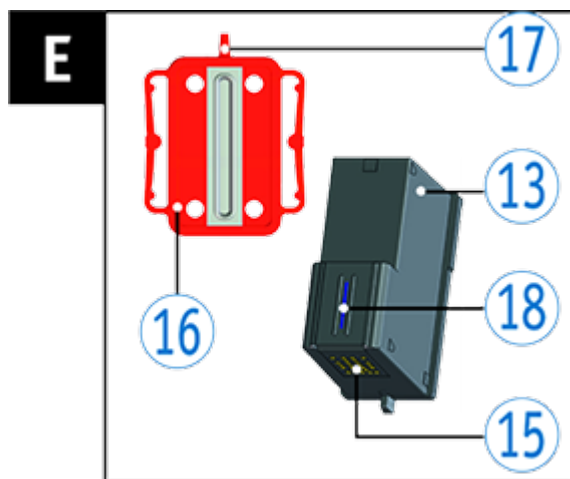


i To clean the nozzles **18** a small amount of ink is ejected.

- ▶ Turn setting wheel **1** to position C.
- ▶ Press the print trigger **8**.

6.3.2 Manual nozzle cleaning

Manual nozzle cleaning ⇒ Fig. **E**

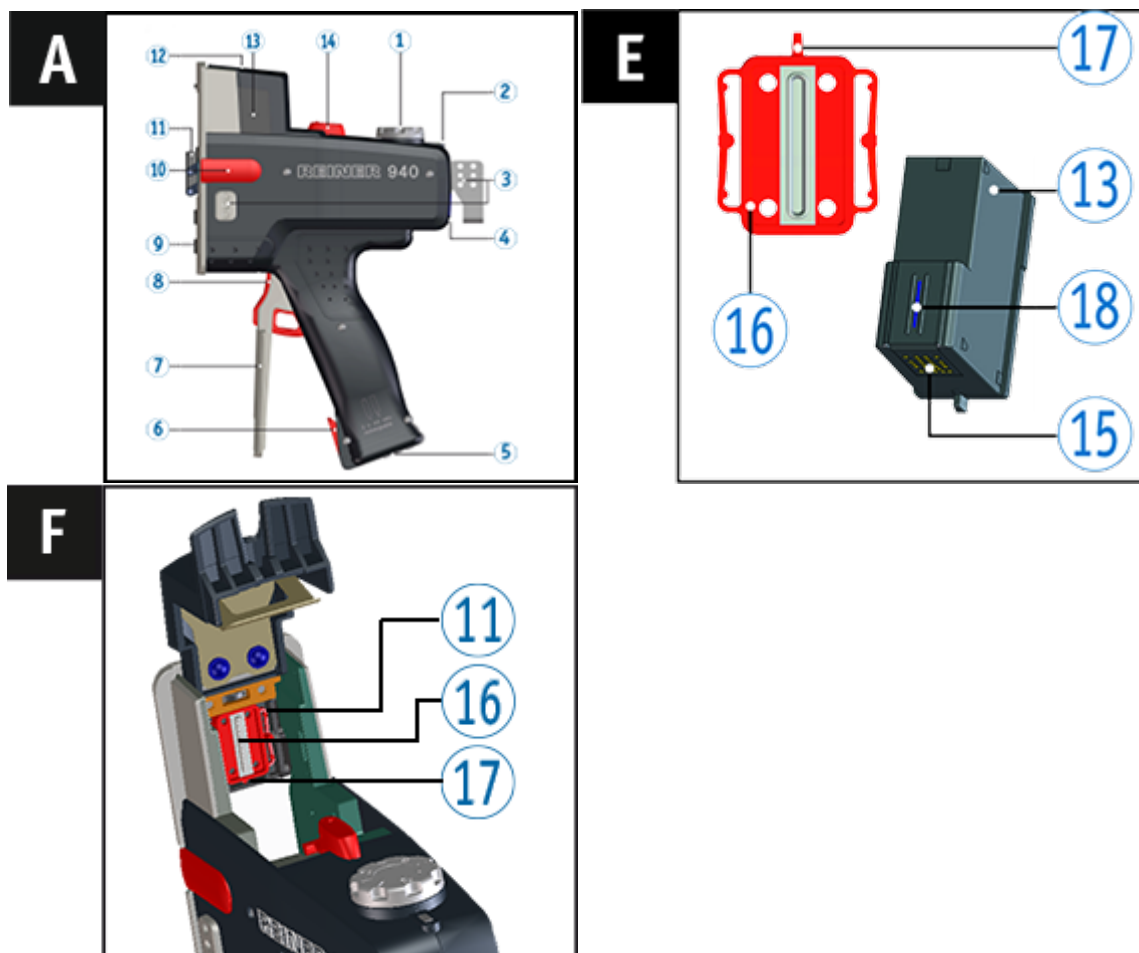


We recommend the following measure if the automatic nozzle cleaning does not lead to the desired success:

- ▶ To dissolve the dried ink, press a soft cloth slightly soaked in ethanol (spirit) against the nozzles **18** for about three seconds.
- ▶ Dab off dissolved ink and **18** wipe the nozzles dry.

6.4 Clean seal

Clean seal ⇒ Fig. **A** + **E** + **F**



The seal **16** is behind the nozzles cover **11**.

- ▶ Push down the print cartridge cover locking button **14**.
The latch of the print cartridge cover **12** is loosened.
- ▶ Fold open the print cartridge cover **12**.
- ▶ Remove the print cartridge **13**.
- ▶ Press and hold the closure lever **7**.
- ▶ Dab dry the seal **16** with a soft cloth.
- ▶ Release the closure lever **7**.
- ▶ Re-insert the print cartridge **13**.

i The seal **16** should be cleaned at regular intervals.
The seal must be replaced if heavily soiled.

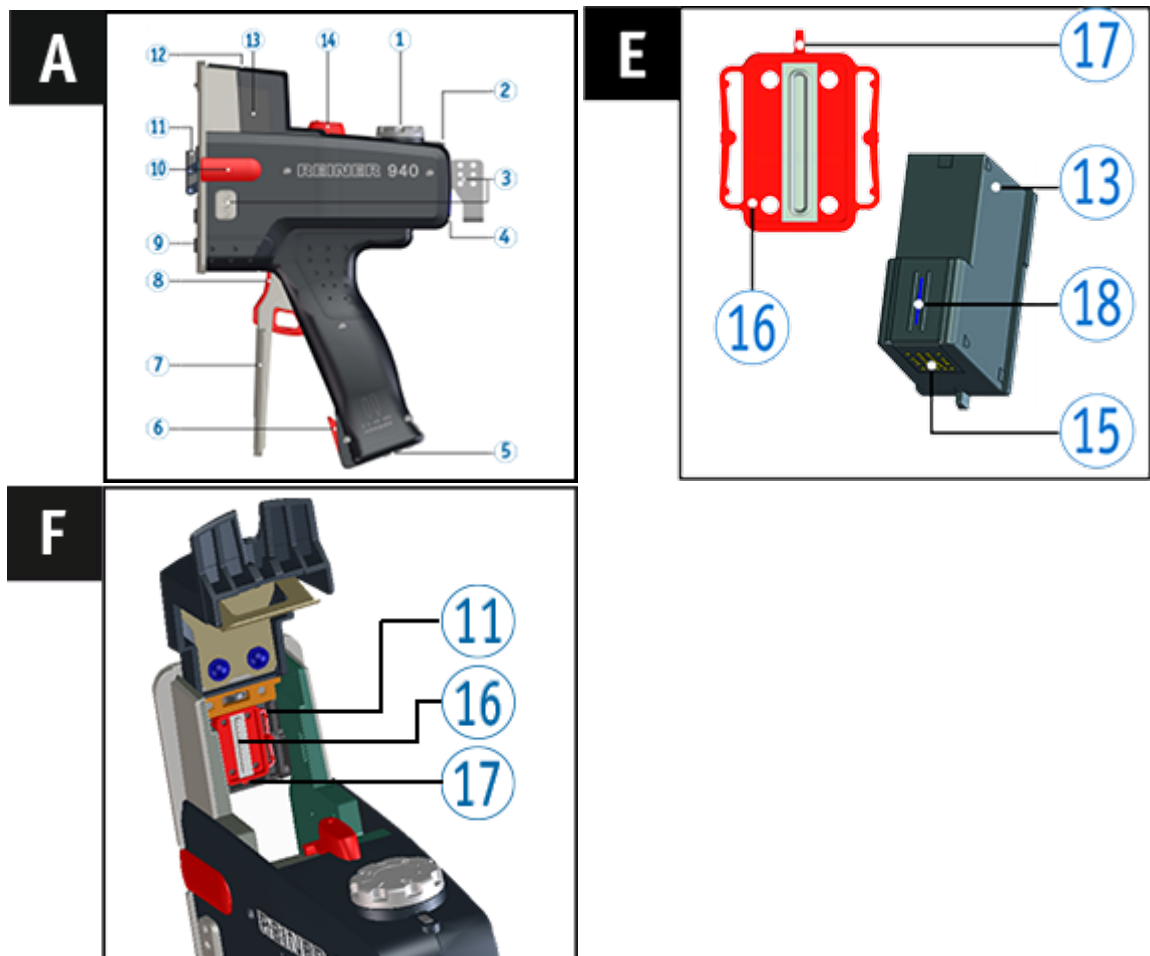
6.5 Replace seal

 Find a clip on our homepage www.reiner.de or on [youtube](https://www.youtube.com).

Replace seal ⇒ Fig. **A** + **E** + **F**

 Different seals are required depending on the type of ink used.

-  - Inkjet print cartridge P3-S-BK: use red seal
- Inkjet print cartridge P3-MP3-BK: use blue seal



- ▶ Push down the print cartridge cover locking button **14**.
The latch of the print cartridge cover **12** is loosened.
- ▶ Fold open the print cartridge cover **12**.
- ▶ Remove the print cartridge **13**.
- ▶ To loosen the seal **16**, insert the seal tip **17** of the new seal **16** or another pointy object into the holes of the nozzle cover **11**. The seal will fall into the print cartridge compartment.
- ▶ To remove the seal **16**, turn the REINER 940 around.
- ▶ Position the new seal **16** with the seal tip **17** first behind the nozzle cover **11** and latch it with slight pressure.

6.6 Clean housing

CAUTION

Electric shock when liquids enter into the device inside.

- ▶ Pull the mains adapter from the outlet.
- ▶ Inform a specialist vendor or the REINER service.

NOTICE

Cleaning agents that are too aggressive may damage the housing surface.

- ▶ Do not use any abrasives and plastic-dissolving cleaning agents for cleaning.
- ▶ Clean the top cover of the device with a soft cloth if required.
For stronger contamination, slightly moisten the cloth with water and mild detergent.

7 Recognising and removing interferences

[REINER 940 without function](#)

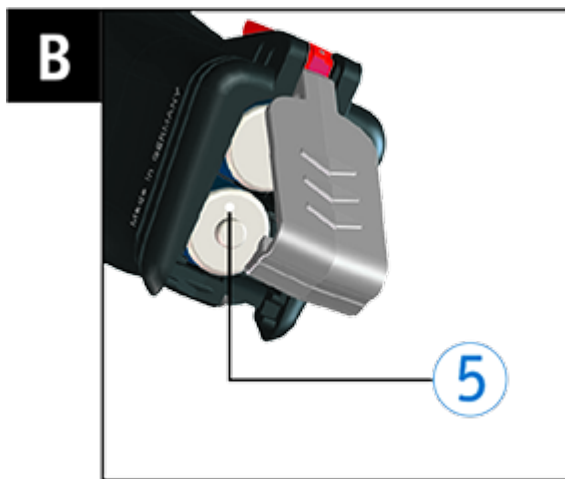
[Causes for uncharged batteries](#)

[Optical \(LED\) signals](#)

[Acoustic signals](#)

7.1 REINER 940 without function

Troubleshooting ⇒ Fig. **B**



- ▶ Disconnect the USB cable from the REINER 940.
- ▶ Open the battery compartment ⑤ in the arrow direction.
- ▶ Remove the batteries.
- ▶ Wait about 3 seconds.
- ▶ Insert batteries.
- ▶ Connect the micro USB socket of the device ④ to the PC via the USB cable.
- ▶ Set setting wheel ① to position 1.
- ▶ Start PCset graphic.
- ▶ Check [charge indicator](#) ⓘ.




7.2 Causes for uncharged batteries


- No batteries inserted or batteries inserted incorrectly
- Incorrect contact in battery compartment
- Battery temperature above 40 degrees Celsius
- Batteries outdated
- Batteries defective
- Batteries completely discharged (deep discharge)

Capacity and service life

The batteries reach their full capacity after several discharges and recharges. With increasing ageing of the batteries, the possible operating time shortens. Rechargeable batteries are subject to wear. A longer service life than six months cannot be guaranteed.


7.3 Optical (LED) signals

 When the display flashes orange (warning), the status display  of the PCset graphic software displays a detailed device message .

LED display	State	Cause	Correction	Notes
Green		Operational		
Green	Green flashing	Device is in standby mode	▶ Press closure lever	When the device is not in use, the power saving mode is automatically activated after 10 minutes
Orange (warning)	Flashing, Interval of 1	<ul style="list-style-type: none"> - No or defective print cartridge - Incorrect print cartridge - Ink level write error - Print cartridge not inserted correctly - Rechargeable battery empty - No battery/defective battery - Print images were deleted 	▶ Inserting the print cartridge ▶ Insert print cartridge correctly ▶ Charge battery ▶ Inserting/replacing the battery ▶ New print image transfer	The detailed cause and correction are shown in the Status indicator  of the PCset graphic software in detail
Orange (warning)	Flashing, Interval of 2	Print cartridge almost empty	▶ Check imprint	Also acoustic signal

Orange (warning)	Flashing, Interval of 3	Print cartridge empty	► Replace the print cartridge	Also acoustic signal
Orange (warning)	Flashing, Interval of 4	Shutter open	► Close shutter	<ul style="list-style-type: none"> - Also acoustic signal - The display appears after 30 seconds of non-use in standard ink, after 10 seconds in MP2 ink and after 6 seconds in MP3 ink
Orange (warning)	Flashing, Interval of 5	Battery almost empty/capacity low	► Charge/replace battery	Also acoustic signal
Orange (warning)	Flashing, Interval of 6	Internal clock battery empty	► Send in device	
Orange (warning)	Permanently lit	Print speed too fast or too slow	► Adjust print speed	Continuous movement required
Red (error)	Flashing, Interval of 1	Device error	► Loosen cable connections and remove batteries for approx. 10 sec	If the error persists after switching on again, contact your specialist dealer or REINER support
Red	Permanently lit	<ul style="list-style-type: none"> - Firmware has not been installed correctly - Device error 	► Install firmware again. ► Switch the device off and on and charge the battery	<ul style="list-style-type: none"> - If the error remains after activation, have the device inspected by the REINER support - Battery deep discharged or safety shutdown - If the error persists after switching on, contact your specialist dealer or REINER support
OFF		<ul style="list-style-type: none"> - Device is switched off - Rechargeable battery empty - Battery defective - No rechargeable battery inserted - Device error 	► Switch on the device ► Charge batteries ► Replace batteries ► Insert batteries ► Contact your specialist dealer or REINER Support	

7.4 Acoustic signals

Signal	Cause	Correction	Notes
Continuous tone	Print speed not ok	▶ Check imprint	Continuous movement required
1 sound pulse	<ul style="list-style-type: none"> - Print start - Printing - In the Switching forward function and when the setting wheel is in position F during the operation of the print trigger - Print images were deleted - Internal clock battery is empty 	<ul style="list-style-type: none"> ▶ New print image transfer ▶ Send in device 	
1 sound pulse every 10 seconds	<ul style="list-style-type: none"> - No or defective print cartridge - Incorrect print cartridge - Ink level write error - Print cartridge not inserted correctly - Rechargeable battery empty - No battery/defective battery 	<ul style="list-style-type: none"> ▶ Inserting the print cartridge ▶ Insert print cartridge correctly ▶ Charge battery ▶ Inserting/replacing the battery 	The detailed cause and correction are shown in the Status indicator  of the PCset graphic software
2 sound impulses every 30 seconds	Print cartridge almost empty	▶ Check imprint	
3 sound impulses every 10 seconds	Print cartridge empty	▶ Replace the print cartridge	
4 sound impulses	Shutter open	▶ Close shutter	<ul style="list-style-type: none"> - Danger of ink drying out - Signal becomes higher in frequency and more penetrant the longer the shutter is open - Signal ends when shutter is closed again or new imprint is made - The display appears after 30 seconds of non-use in standard ink, after 10 seconds in

			MP2 ink and after 6 seconds in MP3 ink
5 sound pulses per minute	Battery almost empty/capacity low	▶ Charge/replace battery	

8 Technical data and accessories


[Type plate](#)

[Technical data](#)

[Transport and disposal](#)

[Accessories](#)

8.1 Type plate

 Observe the type plate before the device is connected.

The type plate is located on the inside of the print head closure of the REINER 940.
It contains the following information:

Mod. = Model

S/N = Serial number



= REINER 940 has the CE-mark according to the currently valid low-voltage and EMC directive.



= REINER 940 is in accordance with the following standards or standardised documents
FCC 47 CFR Ch.1 Part 15
Bluetooth: FCC: R7TAMB2300.



= Safety of Information Technology Equipment.



Waste electrical and electronic devices

Old devices must not be disposed of in the common household waste but in a specified acceptance point for recycling of electrical and electronic devices.

8.2 Technical data

Technical data	
Dimensions	47 x 147 x 221 mm (l x w x h)
Weight	approx. 530 g
Max. print area	140 x 12.7 mm (w x h)
Max. print speed	400 mm/s
Print resolution	300 dpi
Battery capacity	up to 1,000 imprints
Printing technology	Inkjet
Barcode printing	EAN 8, EAN 13, 2/5 Interleaved, 2/5 Industrial, 2/5 Matrix Code 39, Code 39 Full ASCII, Code Codabar, Code 93, Code 93 Full ASCIIr, Code 128 B, GS1 128 (EAN 128)
Barcode for sequential numbering/dating	Code 128 B, Code 39, 2/5 Interleaved
Graphic	BMP, JPG, TIFF, GIF
Ambience temperature for operation	10 °C ... +40 °C
Recommended ambient temperature for operation	16°C...+32°C
Humidity for operation	8 % ... 80 % relative humidity
Recommended humidity for operation	10 % ... 70 % relative humidity
Storage temperature With standard print cartridges With MP print cartridges	1 °C ... +43 °C 10 °C ... +20 °C
Storage humidity	5%... 80 % relative humidity
Temperature for transport With standard print cartridges With MP print cartridges	-20 °C ... +60 °C (up to 12 hours) 10 °C ... +20 °C (up to 12 hours)
Humidity for transport	10%... 90 % relative humidity
Data transfer	USB or Bluetooth
Power supply	2 x AA NiMH rechargeable batteries; chargeable via included mains adapter. Input: 100 - 240 VAC, 50 - 60 Hz, 0,3 A Output: 5 VDC 1 A
Standby time per battery charge	approx. 72 hours
Battery charging time	approx. three hours
Data preservation (battery independent)	approx. 10 years

Print capacity per print cartridge	for 5,000 or more imprints depending on ink and print mode
Protection class	IP 20, degree of contamination 2, equipment class 3
External cycles	max. frequency 3 kHz (normal), 6 kHz (economical) PWH > = 50 µs VIL < = 0.7 V VIH 2.4 V – 5.0 V

8.3 Transport and disposal

Transport

NOTICE

Damage to the device at improper transport.

- ▶ Only use packaging that provides protection from impact and shock for the device!

Disposal



Defective or used batteries

Used batteries or rechargeable batteries must not be disposed of with household waste.



Waste electrical and electronic devices

Old devices must not be disposed of in the common household waste but in a specified acceptance point for recycling of electrical and electronic devices.



8.4 Accessories

Inkjet print cartridge

- Order no.: 947 100-000, P3-S-BK for paper and cardboard, black
- Order no.: 947 100-002, P3-S-MG for paper and cardboard, magenta

Inkjet print cartridge (quick drying)

- Order no.: 947 100-120, P3-MP3-BK for metal and plastic, black
- Order no.: 947 100-130, P3-MP4-BK for glass, metal and plastic, black
- Order no.: 947 100-140, P3-MP5-UV for metal and plastic, invisible (orange in UV light)

For further accessories, see <https://www.reiner.de>

9 Contact

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10 Operating instructions

REINER

REINER 940



Bedienungsanleitung
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