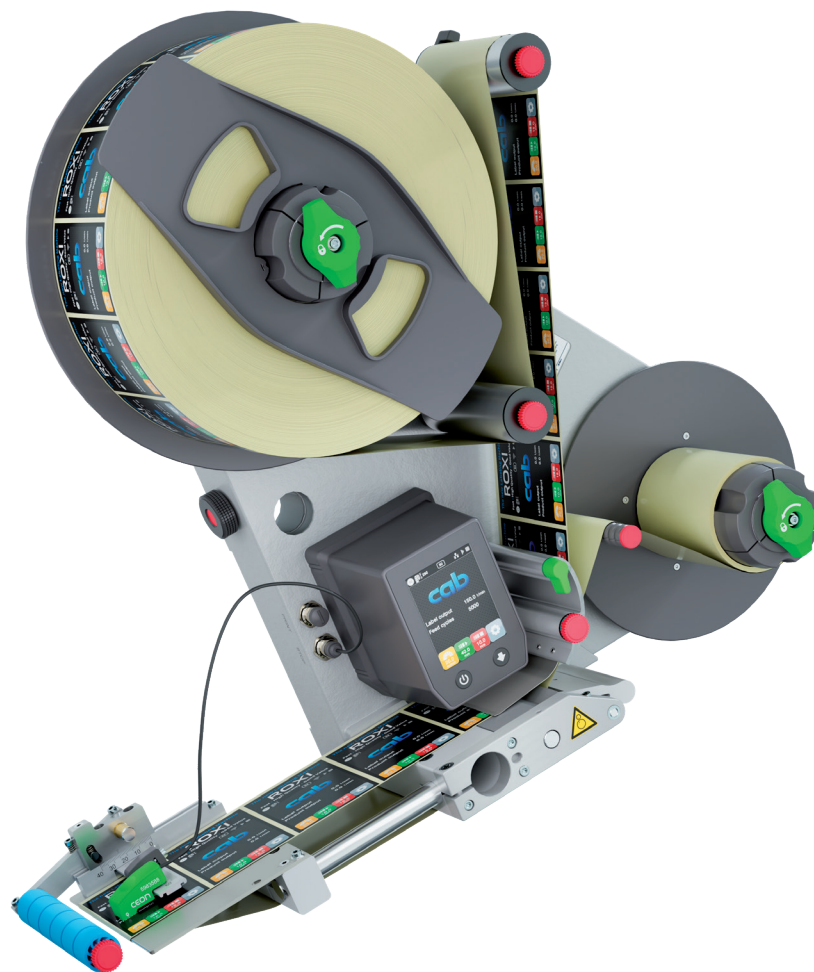


Service Manual



Label dispenser

ROXI

Family	Type
Label dispenser ROXI	60L
	120L
	180L
	60R
	120R
	180R

Ausgabe: 08/2026 - Art.-Nr. 9004305.131

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1.1 Instructions

Important information and instructions in this documentation are indicated as follows:



Danger!

Draws attention to an exceptionally great, imminent danger to health or life due to dangerous electrical voltage.



Danger!

Draws attention to a danger with high risk that, if not avoided, will result in death or serious injury.



Warning!

Draws attention to a danger with medium risk that, if not avoided, may result in death or serious injury.



Caution!

Draws attention to a danger with low risk that, if not avoided, may result in minor or moderate injury.



Attention!

Draws attention to potential risk of property damage or loss of quality.



Note!

Advice on how to make work easier or an important step to be carried out.



Environment!

Tips for environmental protection.



Handling instructions



Reference to chapter, position, image number or document.



Option (accessories, peripherals, special equipment).

Time

Viewed in the display/monitor.

1.2 General Safety Instructions

This service manual is intended for use by qualified service and maintenance personnel. For more operation and configuration information, refer to the user or configuration manual.

Follow the general safety rules below:

- Always have service work performed by a qualified workshop that has the necessary expertise and tools to carry out the required work.
- Keep the area around the device clean at all times!
- Work with safety in mind.
- Parts of device that are removed during the maintenance work must be put in a safe place.
- Avoid risks of tripping over.



Danger!

Double pole/neutral fusing.



Danger!

Danger to life and limb from increased current flow through metal parts in contact with the device.

- ▶ Do not wear clothing with metal parts.
- ▶ Do not wear jewelry.
- ▶ Do not wear spectacles with metal frames.



Warning!

Items of clothing drawn into the device by moving parts can lead to injuries.

- ▶ Do not wear any items of clothing which could get caught by moving parts.

1.3 Protective Devices

**Warning!**

There is a risk of injury if protective devices are missing or defective.

- ▶ Replace all protective devices (covers, safety notices, grounding cables etc) after maintenance work has been completed.
- ▶ Replace parts that have become defective or unusable.

Wear protective goggles for:

- Knocking pins or similar parts in or out with a hammer.
- Using spring hooks.
- Inserting or removing springs, retaining rings or grip rings.
- Using solvents, cleansers or other chemicals.

1.4 Handling Electricity

The following work may only be done by trained and qualified electricians:

- Work on electrical components.
- Work on an open device still connected to the mains supply.

General precautions before starting maintenance work:

- Find out where the emergency and power switches are so that they can be quickly thrown in an emergency.
- Disconnect the current supply before carrying out the following work:
 - Installing or removing power units.
 - Working in the immediate vicinity of open power supply components.
 - Mechanical check of power supply components.
 - Modifying circuits in the device.
- Test the zero potential of the device parts.
- Check the working area for possible sources of danger, such as wet floors, defective extension cables, defective protective conductor connections.

Additional precautions in the case of exposed voltages:

- Ask a second person to remain near the working site. This person must know where the emergency and power switches are, and how to switch the current off if danger arises.

1.5 Procedure in Case of Accidents

- Act calmly and with great care.
- Avoid danger to yourself.
- Switch off power.
- Request medical assistance.
- Give first aid, if necessary.

1.6 Environment



Obsolete assemblies contain valuable recyclable materials that should be sent for recycling.

- ▶ Send to suitable collection points, separately from residual waste.
- ▶ Send the parts for recycling.

- ▶ Do not use any worn or damaged tools.
- ▶ Only use tools and testing devices that are suitable for the task at hand.

cab special tools:

- Socket wrench for M12 connector / M16 nut
- Metal pin Ø 3.0 mm

Standard tools:

- Torque wrench 1.2 Nm (T10, T20)
- Torque wrench 2.0 Nm (T20)
- Torque wrench 15 Nm (T30)
- Torx screwdriver (T10, T20, and T30)
- Angled hex key 2 mm
- Circlip pliers
- Pliers (e.g., mini water pump pliers)

**Note!**

The device is described in the following using the left-hand version as an example.

3.1 Disconnecting from the power supply

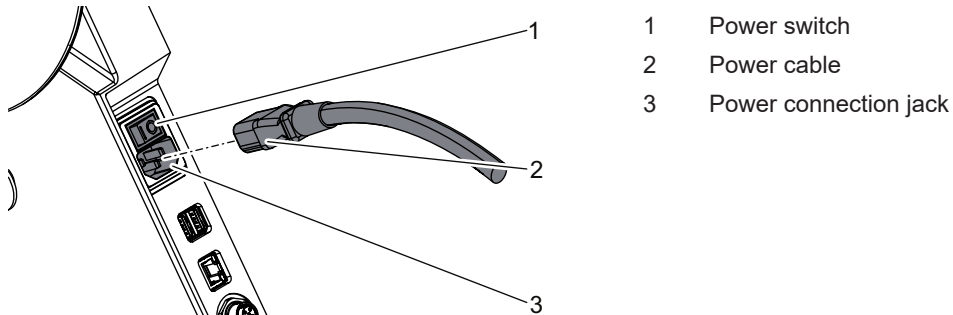


Figure 1 Disconnecting from the power supply

- Switch off the device at the power switch (1).
- Pull the power cable (2) out of the power connection jack (3).

3.2 Removing the cover

**Attention!**

Risk of death via electric shock!

- **Before opening the housing cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.**

- Disconnect the device from the power supply. ► „3.1 Disconnecting from the power supply“
- If necessary, remove the device from the assembly assistance.

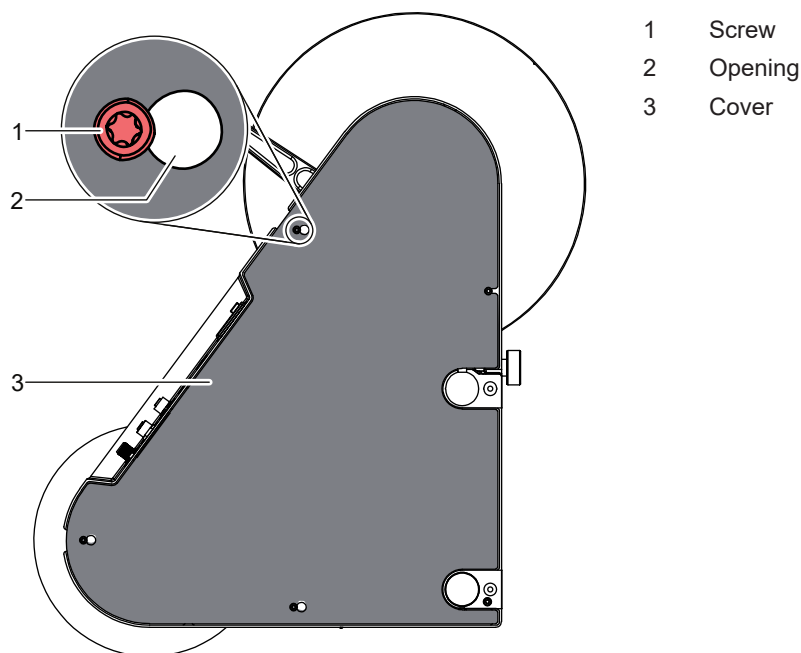


Figure 2 Removing the cover

- Loosen the screws (1).
- Remove the cover (3) and set it aside in a safe place.

4.1 Cleaning by the operator

The following cleaning work is described in the assembly instructions:

- Cleaning the outer surface
- Cleaning the touchscreen display
- Cleaning the rewind guide roller
- Cleaning the pinch roller
- Cleaning the deflection roller
- Cleaning the guide plate

4.2 Cleaning the CEON label sensor

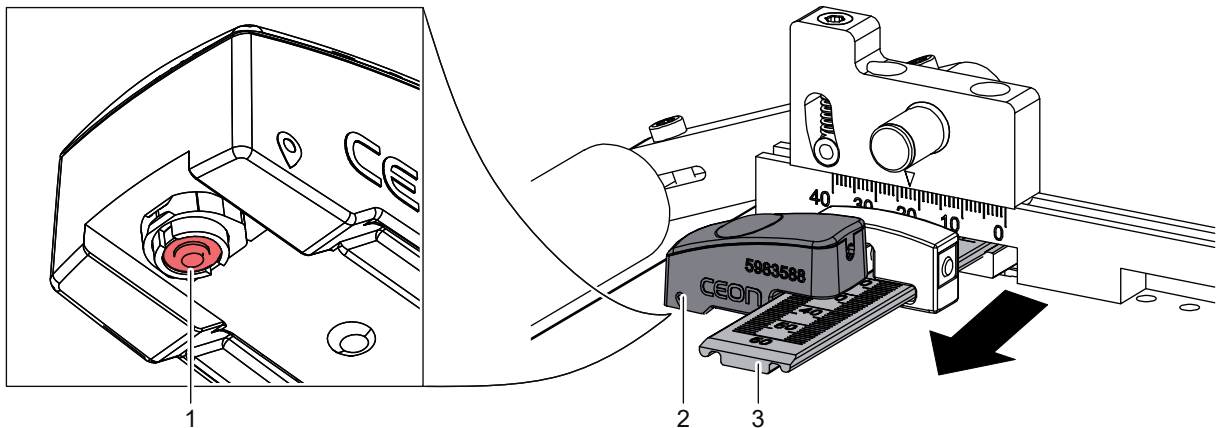


Figure 3 Cleaning the CEON label sensor

1 Sensing head

2 CEON label sensor

3 Retainer bar

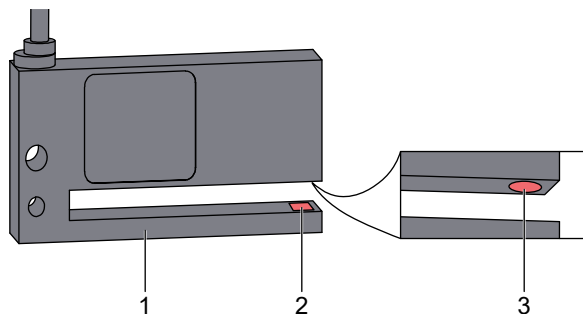


Note!

To ensure process reliability and reproducibility, cab recommends reading the setting value from the scale and recording it.

- Slide the label sensor (2) off the retainer bar (3).
- Carefully clean the sensing head (1) with a lint-free cloth.

4.3 Cleaning the forked light barrier



1 Forked light barrier

2, 3 Sensor

Figure 4 Gabellichtschranke reinigen, beispielhaft

- Remove the fork light barrier (1).
- Carefully clean the sensor (2, 3) with a brush or a cotton swab soaked in pure alcohol.

5.1 Replacing PCB CPU, I/O and STOP

**Attention!**

Risk of death via electric shock!

- ▶ Before opening the housing cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.



For ROXI label dispenser devices with serial number < 0007190: replace the CPU, I/O, and STOP circuit boards if one circuit board is defective (compatibility).

From serial number 0007190 onwards: in case of a defect, replace only the defective circuit board.

- ▶ If possible, save the printer configuration to an external medium.
- ▶ Unplug the printer from the electrical outlet. ▷ „3.1 Disconnecting from the power supply“
- ▶ Dismount the cover. ▷ „3.2 Removing the cover“

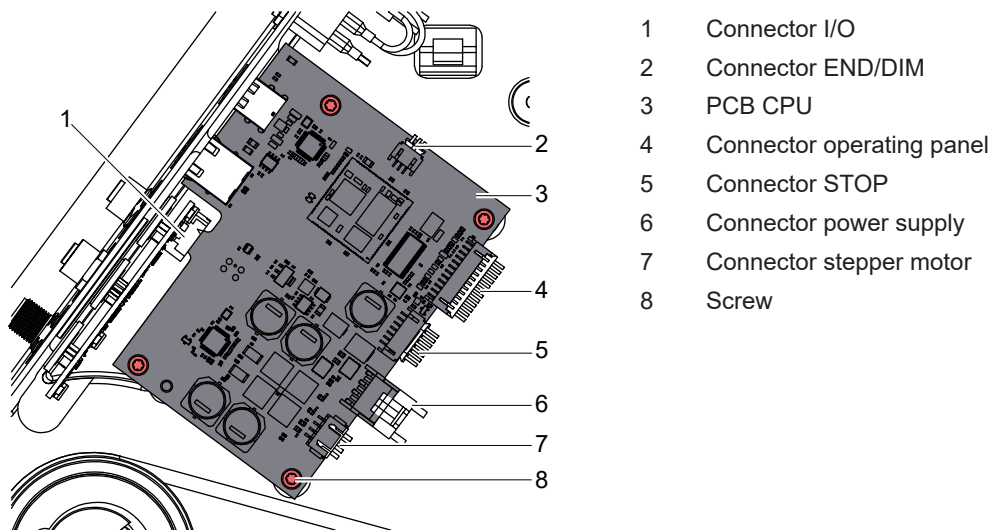
Removing PCB CPU

Figure 5 Replacing PCB CPU

- ▶ Detach all interface cables
- ▶ Remove all memory media from the slots.
- ▶ Unplug all plug connections (2, 4 -7) from the PCB CPU (3).
- ▶ Loosen 4 screws (8).
- ▶ Pull the PCB CPU (3) out of the I/O circuit board (1) connector and remove it.

Replacing PCB I/O

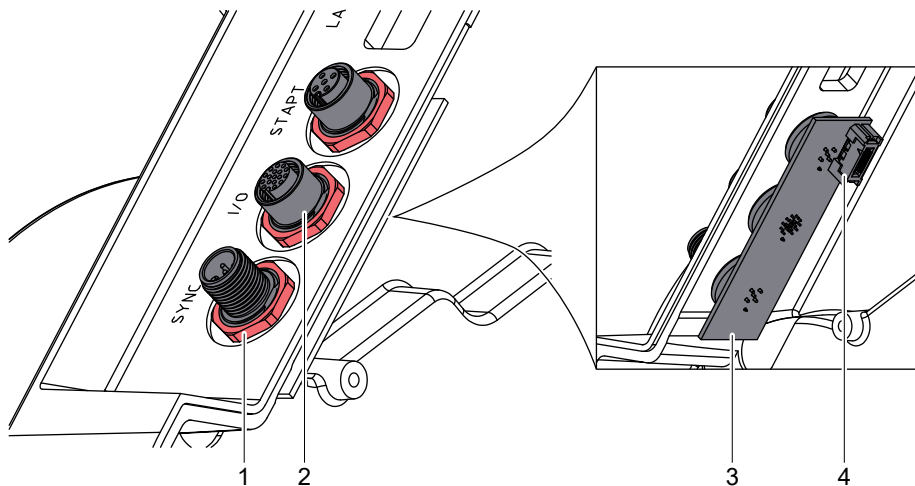


Figure 6 Replacing PCB I/O

- | | |
|----------------------|-----------------|
| 1 Nut | 3 PCB I/O |
| 2 Panel-mount socket | 4 Connector I/O |

- Loosen the nuts (1) using the pin spanner.
- Remove the PCB I/O (3).
- Insert the new PCB I/O.
- Tighten the nuts (1) using the pin spanner.

Installing the CPU PCB

- Insert the new CPU PCB into the I/O PCB connector (► „Replacing PCB I/O“/4).
- Secure the CPU PCB (► „Removing PCB CPU“/3) with 4 screws (► „Removing PCB CPU“/8).
- Plug in all connectors (► „Removing PCB CPU“/2, 4 -7) on the CPU PCB (3).

Replacing the STOP PCB

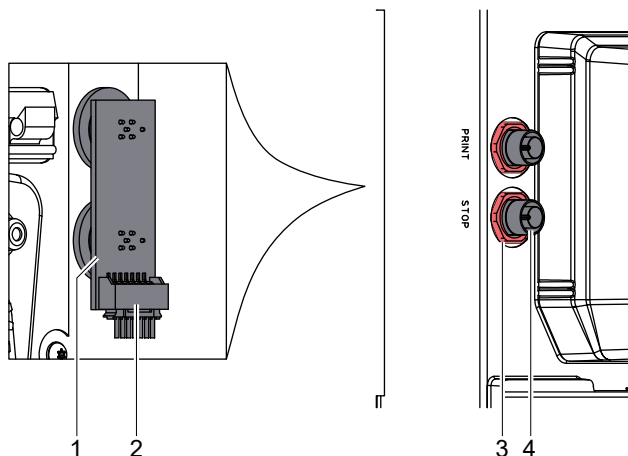


Figure 7 Replacing the STOP PCB

- | | |
|------------|----------------------|
| 1 STOP PCB | 3 Panel-mount socket |
| 2 Nut | 4 Connector STOP |

- Pull the connector (4) out of the STOP PCB (1).
- Loosen the nuts (2) using the pin spanner.
- Remove the STOP PCB (1).

- ▶ Insert the new STOP PCB.
- ▶ Tighten the nuts (2) using the pin spanner.
- ▶ Plug in the connector (4) on the STOP PCB (1).

- ▶ Mount the cover.
- ▶ Restore all interface connections.
- ▶ Connect the power cable.
- ▶ Switch on the device.
- ▶ If necessary, perform a firmware update.
- ▶ If possible, load the software configuration from the storage medium. Otherwise, set the software configuration via the operating panel.

5.2 Replacing the END/DIM PCB



Danger!

Risk of death via electric shock!

- ▶ **Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.**

- ▶ If possible, save the software configuration to an external storage medium.
- ▶ Disconnect the device from the mains. ▶ „3.1 Disconnecting from the power supply“
- ▶ Remove the cover. ▶ „3.1 Disconnecting from the power supply“

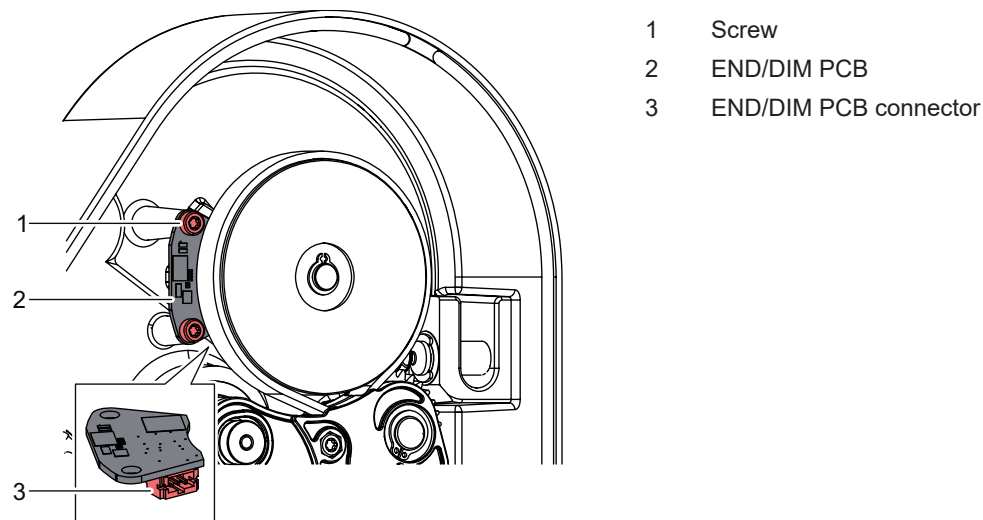


Figure 8 Replacing the END/DIM PCB

- ▶ Loosen the screws (1).
- ▶ Remove the PCB (2).
- ▶ Pull the connector (3) out of the END/DIM PCB (2).
- ▶ Reconnect the connector (3) on the new END/DIM PCB.
- ▶ Insert the new END/DIM PCB (2).
- ▶ Secure the new END/DIM PCB (2) with the screws (1).

5.3 Replacing the operating panel



Danger!

Risk of death via electric shock!

- ▶ Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.

- ▶ Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“
- ▶ Remove the cover. ▷ „3.2 Removing the cover“

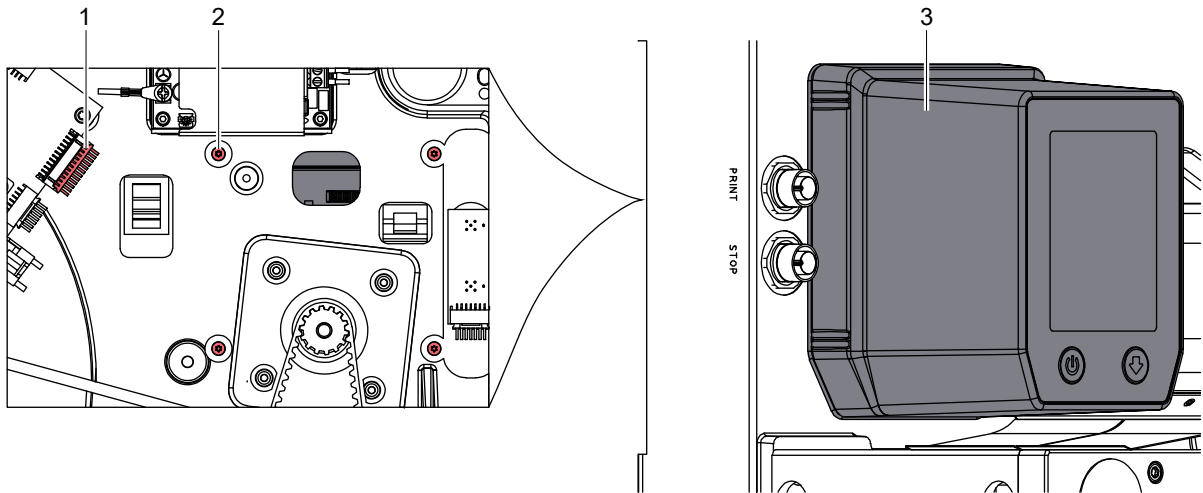


Figure 9 Replacing the operating panel

- 1 Operating panel connector
- 2 Screws

- 3 Operating panel

- ▶ Pull the connector off the CPU PCB (1).
- ▶ Loosen the 4 screws (2).
- ▶ Remove the operating panel (3).
- ▶ Insert the new operating panel and secure it with 4 screws (2).
- ▶ Plug the connector into the CPU PCB (1).

5.4 Replacing the power supply unit



Danger!

Risk of death via electric shock!

- ▶ **Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.**

- ▶ Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“
- ▶ Remove the cover. ▷ „3.2 Removing the cover“

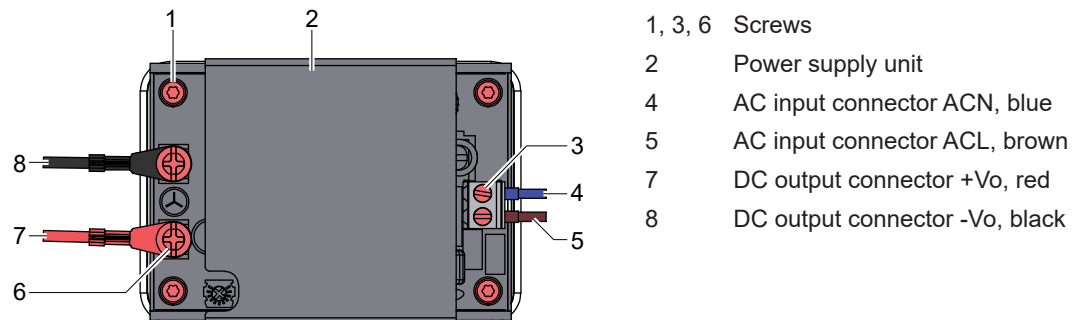


Figure 10 Replacing the power supply unit

- ▶ Loosen 2 screws (6) and remove the cables (7, 8).
- ▶ Loosen 2 screws (3) and remove the cables (4, 5).
- ▶ Loosen 4 screws (1).
- ▶ Remove the power supply unit (2).
- ▶ Install the components in reverse order. When doing so, observe the labeling on the power supply unit housing and connect the cables correctly.

5.5 Replacing the belt



Danger!

Risk of death via electric shock!

- ▶ **Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.**

- ▶ Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“
- ▶ Remove the cover. ▷ „3.2 Removing the cover“
- ▶ Remove the liner media.

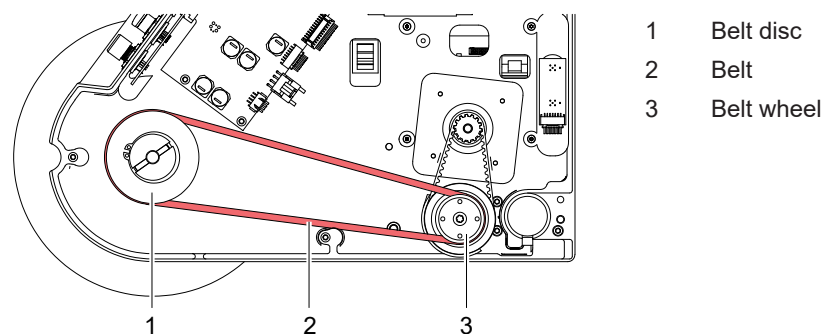


Figure 11 Replacing the belt

- ▶ Stretch the belt (2) and take it off the belt pulley (1) and the belt gear (3).
- ▶ Place the new belt onto the belt gear (3).
- ▶ Stretch the belt (2) and pull it over the belt pulley (1).

5.6 Replacing the drive roller



Danger!

Risk of death via electric shock!

- Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.

- Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“
- Remove the cover. ▷ „3.2 Removing the cover“
- Remove the liner media.

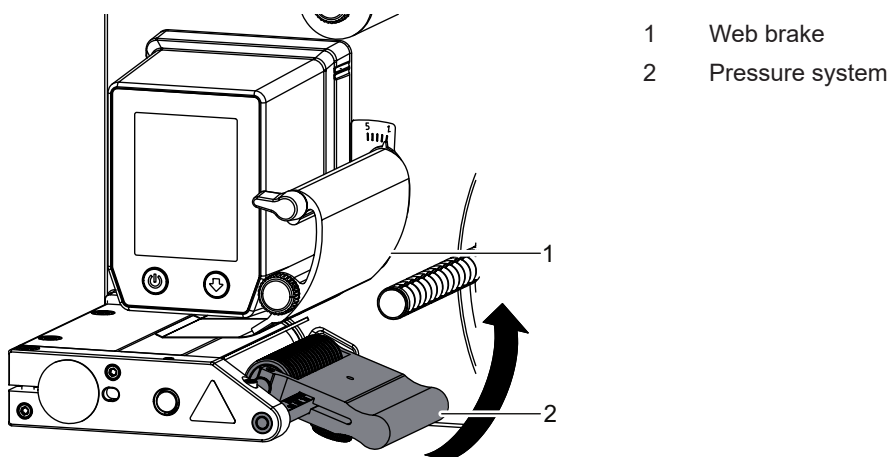


Figure 12 Opening the pressure system

- To open the pressure system, press the grip piece of the pressure system (2) toward the web brake (1).

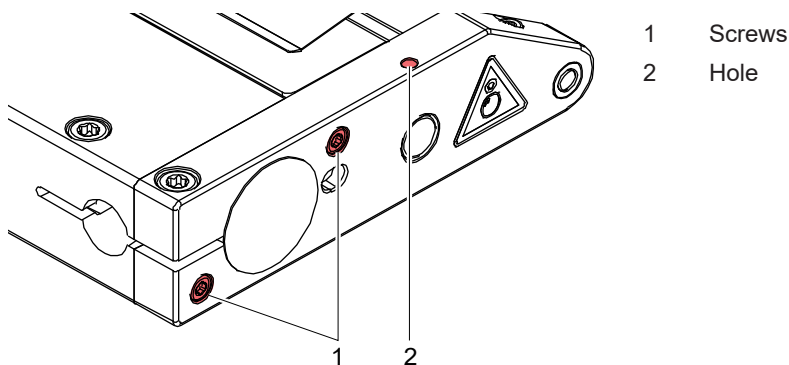


Figure 13 Locking the drive roller

- Loosen the screws (1).
- To lock the drive roller, insert a suitable tool (e.g., a 2 mm hex key) through the hole (2). Make sure the drive roller no longer moves.

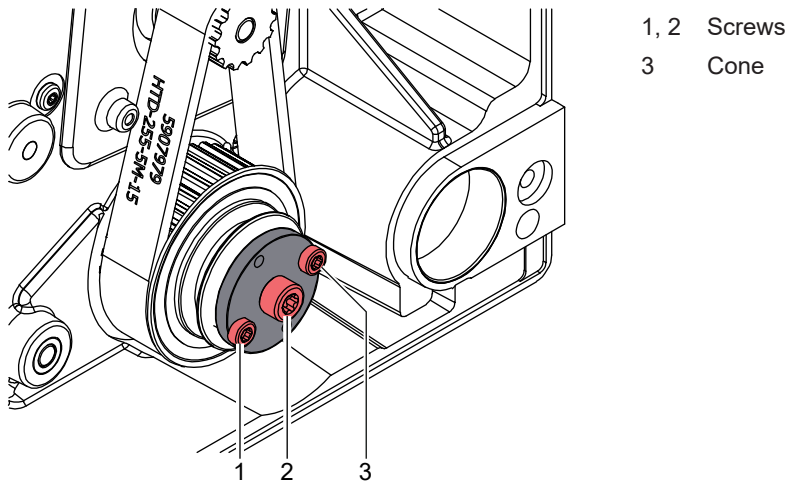


Figure 14 Removing the cone

- Loosen the screw (2).
- To press off the cone (3), evenly screw 2 screws (1) from the removed cover into the cone (3).
- Pull off the cone (3).
- Unscrew the screws (1) from the cone.

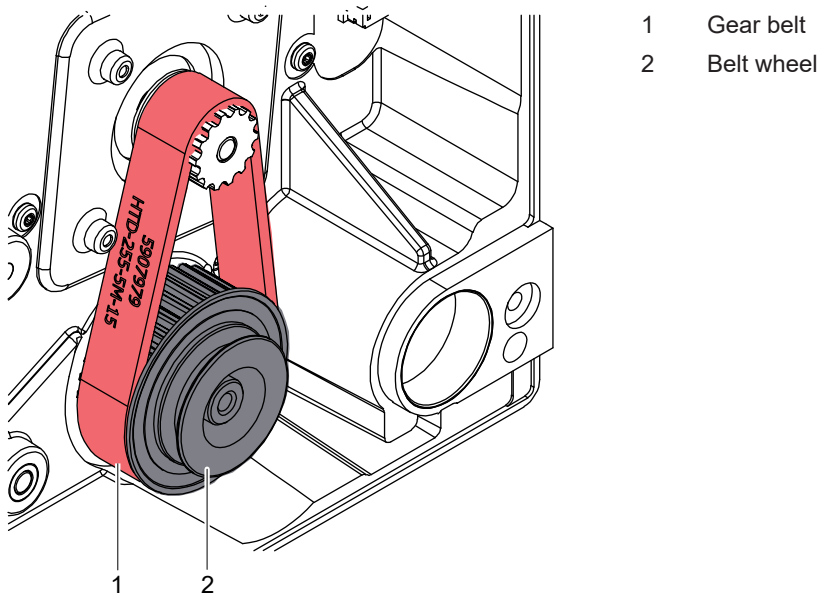


Figure 15 Removing the belt wheel

- Remove the belt wheel (2) together with the gear belt (1).

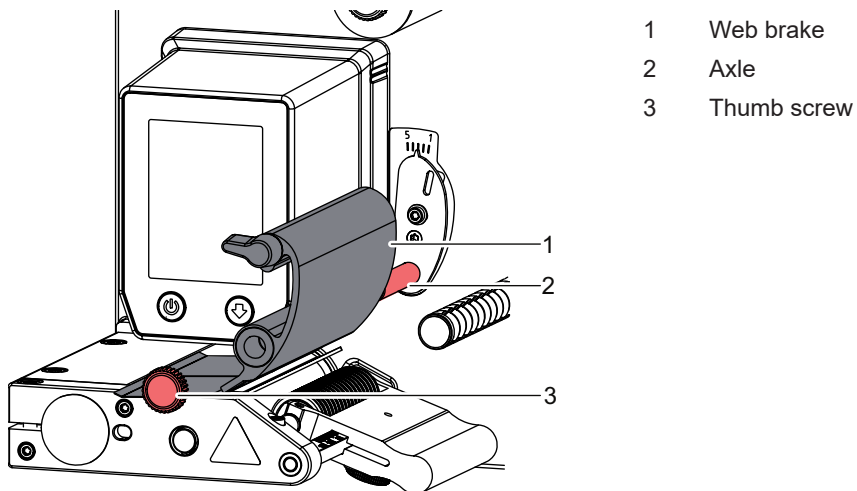


Figure 16 Removing the web brake

- ▶ Loosen the thumb screw (3).
- ▶ Remove the web brake (1) from the axle (2).

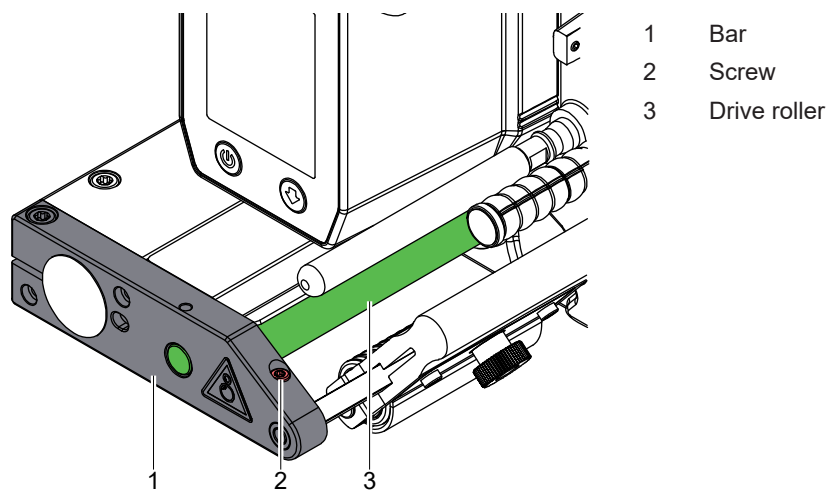


Figure 17 Removing the drive roller

- ▶ Remove the tool from the hole (▷ Figure 13/2).
- ▶ Loosen the screw (2).
- ▶ Take the bar (1) with the drive roller (3) off the device.
- ▶ Pull the drive roller (2) out of the bar (1).
- ▶ Install the new drive roller in reverse order. Tighten the screw (▷ Figure 14/2) to 15 Nm.
- ▶ The pressure system must be readjusted. ▷ „6.1 Checking and adjusting the pressure system“

5.7 Replacing the drive roller

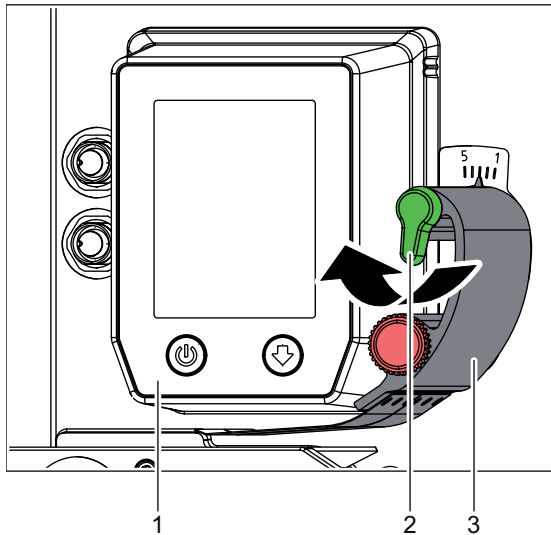


Danger!

Risk of death via electric shock!

- **Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.**

- Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“
- Remove the liner media.



- 1 Operating panel
- 2 Lever
- 3 Web brake

Figure 18 Pivoting the web brake

- To pivot open the web brake (2), press the lever (2) toward the operating panel (1).

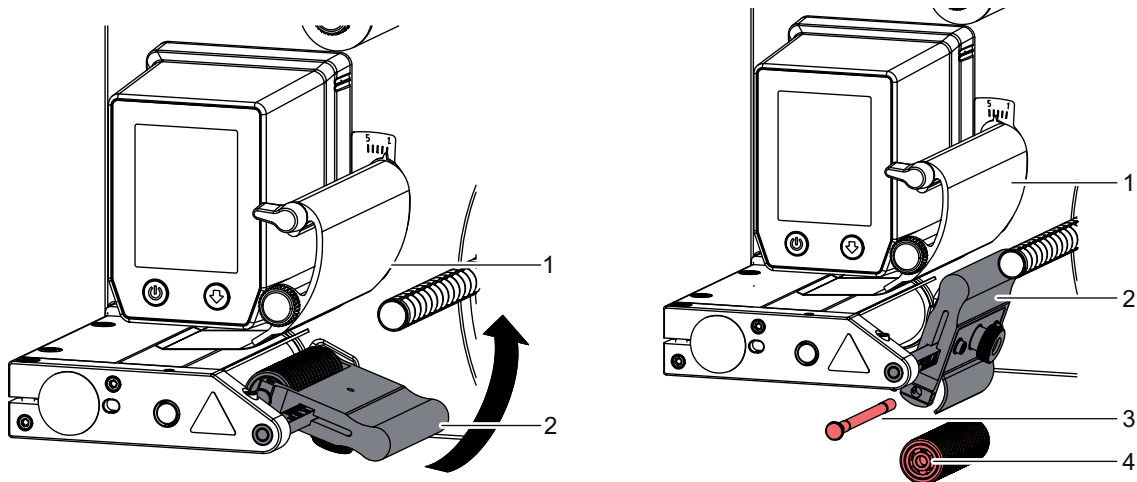


Figure 19 Removing the wipe-down roller

- | | |
|-------------------|--------------------|
| 1 Bandbremse | 3 Cotter pin |
| 2 Pressure system | 4 Wipe-down roller |



Note!

To ensure process reliability and reproducibility, cab recommends reading the set value from the scale and recording it.

- ▶ To open the pressure system, press the pressure system (2) toward the web brake (1).
- ▶ Pull out the cotter pin (3).
- ▶ Die Andruckrolle (4) entnehmen.
- ▶ Die Komponenten in umgekehrter Reihenfolge einbauen.

5.8 Replacing the rewinder



Danger!

Risk of death via electric shock!

- ▶ Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.

- ▶ Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“
- ▶ Remove the cover. ▷ „3.2 Removing the cover“
- ▶ Remove the liner media.
- ▶ Remove the belt. ▷ „5.5 Replacing the belt“

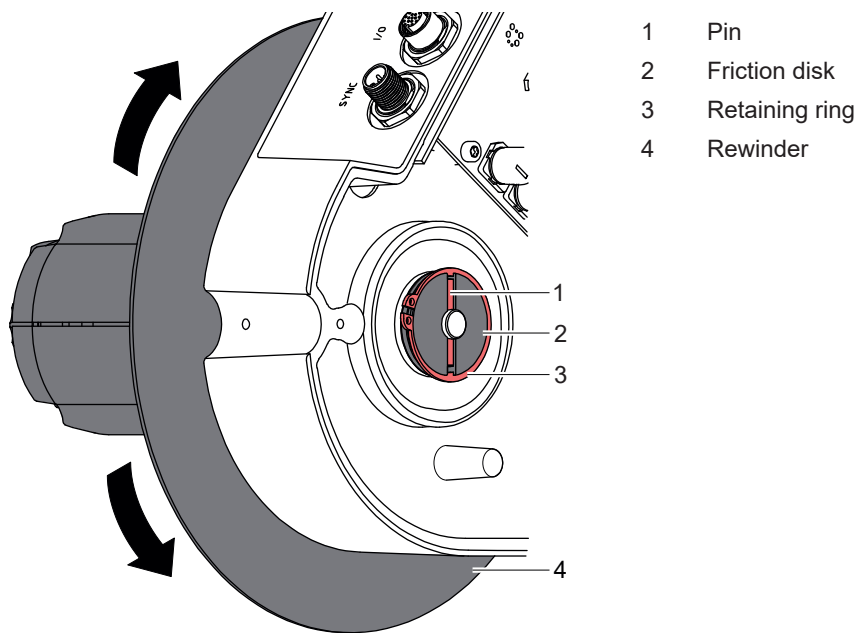


Figure 20 Removing the pin

- Remove the retaining ring (3).
- Turn the rewinder (4) so that the pin (1) is oriented vertically.
- Press the dancer arm of the rewinder downward. The pin (1) slides out of the friction disk (2).

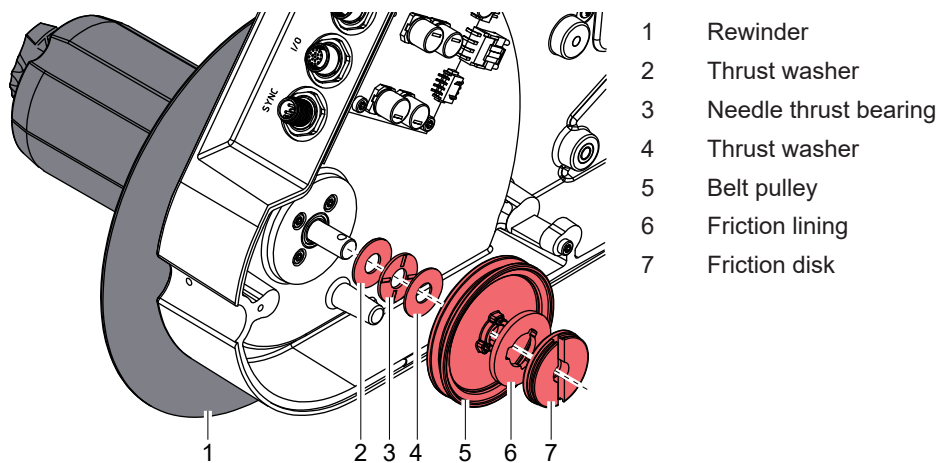


Figure 21 Removing the rewinder

- Remove the friction disk (7).
- Remove the friction lining (6).
- Remove the belt pulley (5).
- Remove the thrust washers (2, 4) and the needle thrust bearing (3).
- Remove the rewinder (1) from the device housing.
- Install the new rewinder in reverse order.

5.9 Replacing the pendulum arm rewinder

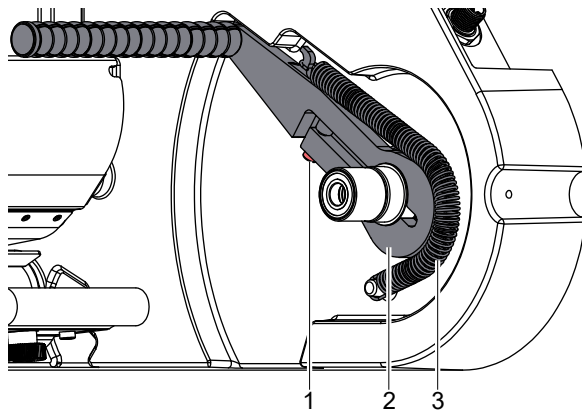


Danger!

Risk of death via electric shock!

- ▶ Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.

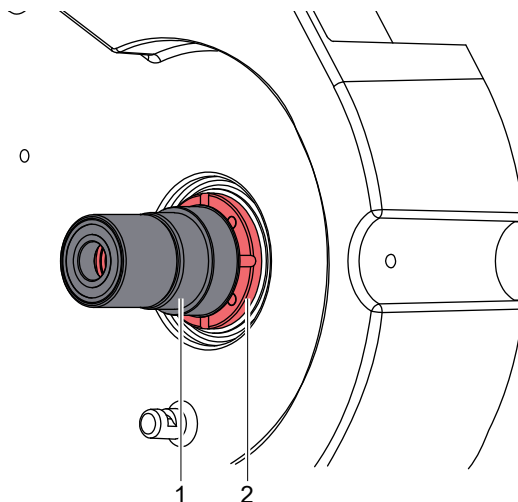
- ▶ Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“
- ▶ Remove the cover. ▷ „3.2 Removing the cover“
- ▶ Remove the liner media.
- ▶ Remove the belt. ▷ „5.5 Replacing the belt“
- ▶ Remove the rewinder. ▷ „5.8 Replacing the rewinder“



- 1 Screw
- 2 Pendulum arm
- 3 Spring

Figure 22 Replacing the pendulum arm

- ▶ Unhook the spring (3).
- ▶ Loosen the screw (1).
- ▶ Remove the pendulum arm (2).



- 1 Lever bearing
- 2 Bearing socket

Figure 23 Removing the lever bearing

- ▶ Unscrew the lever bearing (1) by hand from the bearing socket (2).

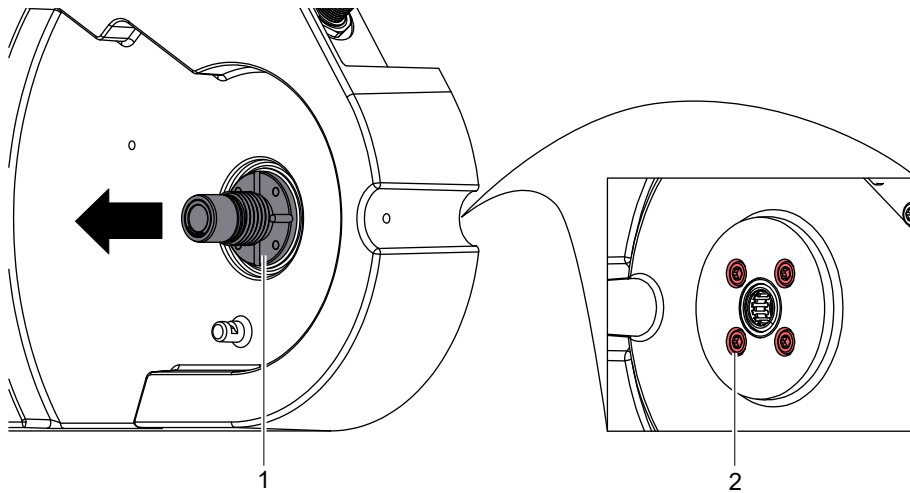


Figure 24 Removing the bearing socket

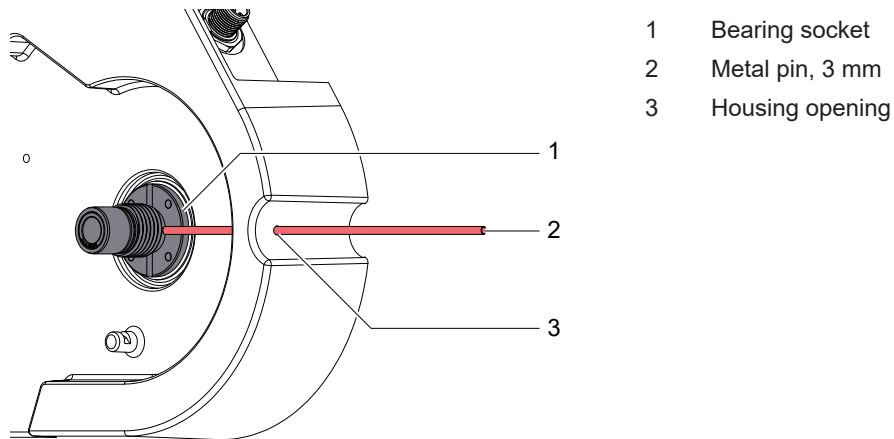
1 Bearing socket

2 Screw

- Loosen 4 screws (2).
- Remove the bearing socket (1).
- Insert the new bearing socket and secure it with 4 screws (2).
- Grease the bearing socket.



cab recommends OKS 470 high-performance grease (cab item 5907092) for greasing the bearing socket.



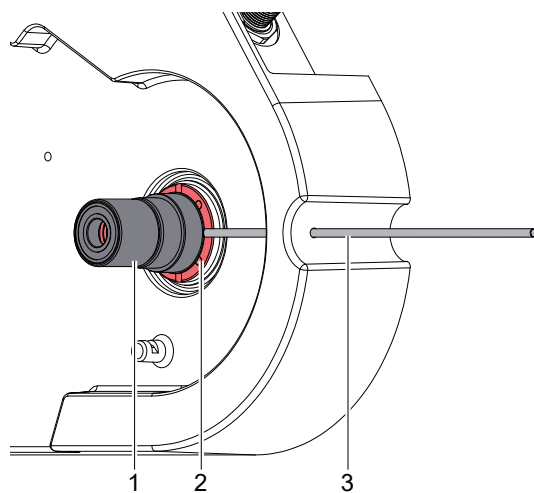
1 Bearing socket

2 Metal pin, 3 mm

3 Housing opening

Figure 25 Securing the bearing socket

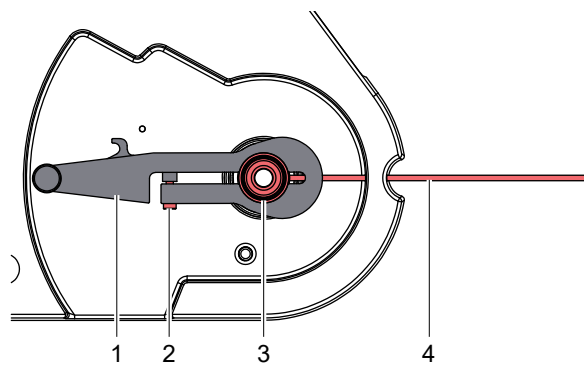
- Insert the metal pin (2) through the opening in the housing (3). Make sure the metal pin (2) secures the bearing socket (1).



- 1 Lever bearing
- 2 Bearing socket
- 3 Metal pin, 3 mm

Figure 26 Installing the lever bearing

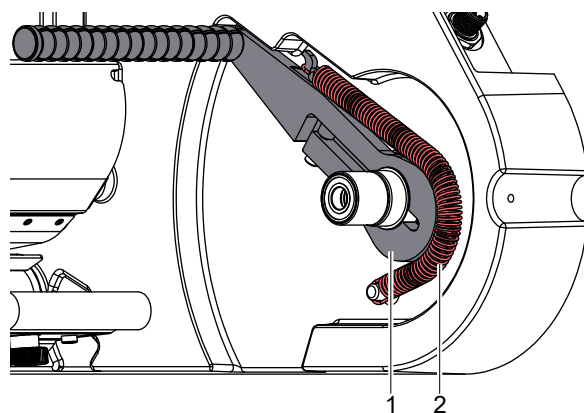
- Screw the lever bearing (1) by hand onto the bearing socket (2) until the lever bearing (1) is seated.



- 1 Pendulum arm
- 2 Screw
- 3 Lever bearing
- 4 Metal pin, 3 mm

Bild 27 Installing the pendulum arm

- Slide the pendulum arm (1) onto the lever bearing (3). Make sure the pendulum arm (1) is oriented horizontally.
- Secure the pendulum arm (1) with the screw (2).
- Remove the metal pin (4) and pivot the pendulum arm (1) upward.



- 1 Pendulum arm
- 2 Spring

Figure 28 Installing the spring

- Attach the spring (2) to the pendulum arm (1).
- Reattach the rewinder. ► „5.8 Replacing the rewinder“

5.10 Replacing the unwinder



Danger!

Risk of death via electric shock!

- ▶ Before opening the cover, disconnect the device from the mains supply and wait at least one minute until the power supply unit has discharged.

- ▶ Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“
- ▶ Remove the cover. ▷ „3.1 Disconnecting from the power supply“
- ▶ Remove the liner media.

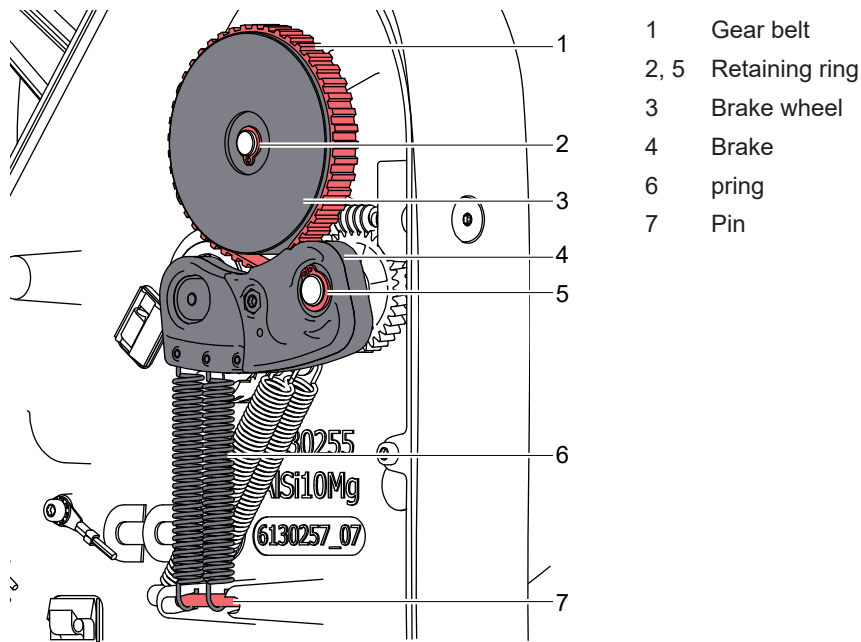


Figure 29 Removing the brake

- ▶ To unhook the springs (6), pull the pin (7) and springs (6) downward using pliers (e.g., mini water-pump pliers).
- ▶ Remove the pin (7).
- ▶ Remove the retaining ring (2).
- ▶ Press the pendulum arm of the unwinder downward.
- ▶ Pull the gear belt (1) off the brake wheel (3).
- ▶ Remove the brake (4).
- ▶ Remove the retaining ring (5).
- ▶ Remove the brake wheel (3).

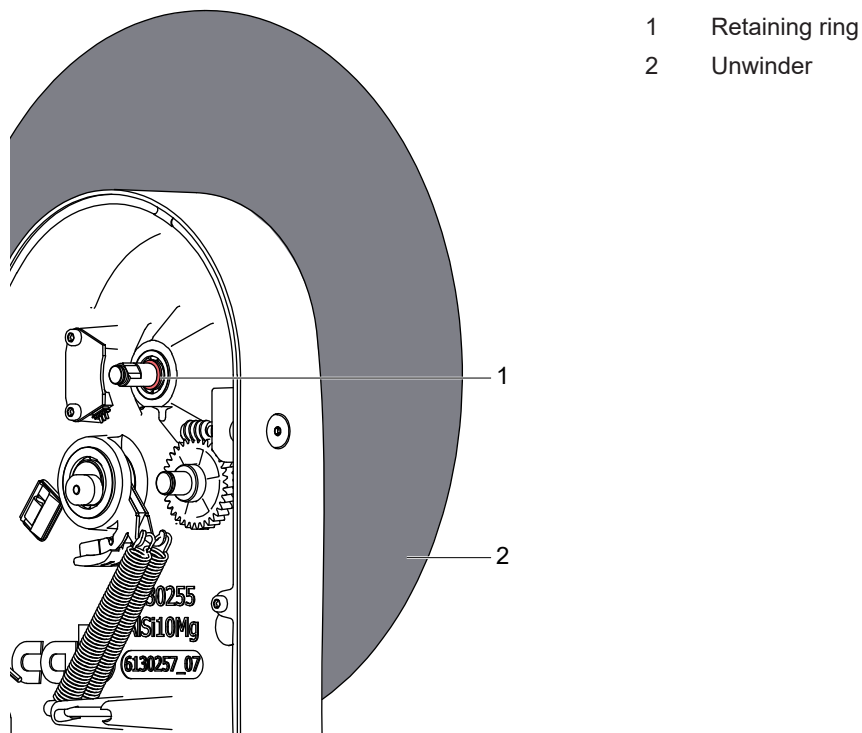


Figure 30 Replacing the unwinder

- Remove the retaining ring (1).
- Remove the unwinder (2) from the device housing.

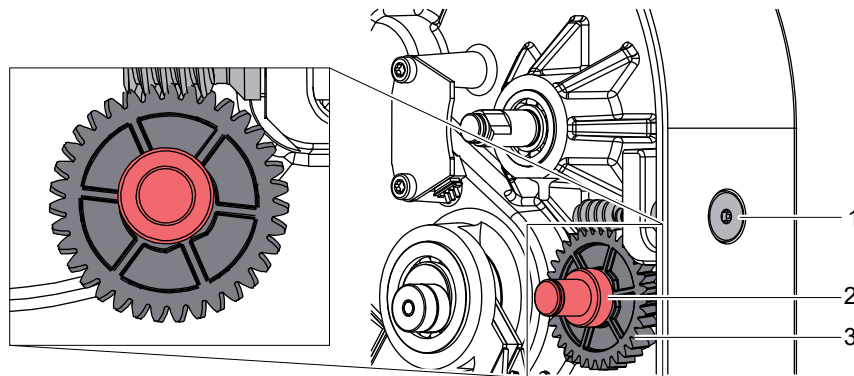


Figure 31 Aligning the eccentric

- 1 Worm bolt
 - 2 Eccentric
 - 3 Worm gear
- Install the components in reverse order. Make sure the eccentric (2) is positioned at approx. 11 o'clock. If necessary, turn the worm bolt (1) with a screwdriver to adjust the eccentric (2).
 - The unwinder brake must be readjusted. ► „6.3 Checking and adjusting the unwinder brake“

5.11 Replacing the wipe-down roller and wipe-down brush

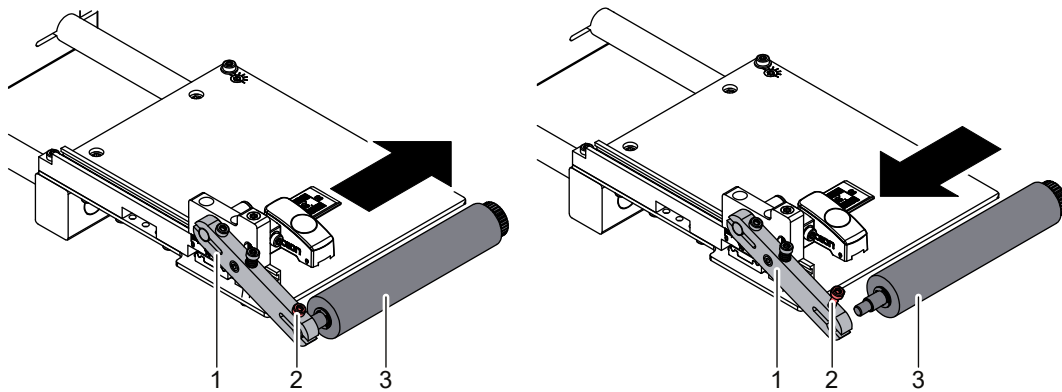


Figure 32 Replacing the wipe-down roller and wipe-down brush, shown as an example

- 1 Lever
- 2 Screw

- 3 Wipe-down roller

- Disconnect the device from the mains. ▷ „3.1 Disconnecting from the power supply“.
- Loosen the screw (2).
- Remove the wipe-down roller (3) from the lever (1).
- Insert the wipe-down roller (3) into the lever (1) in the correct orientation.
- The wipe-down brush is replaced in the same way.

6.1 Checking and adjusting the pressure system

After the drive roller has been replaced, the pressure system must be checked and adjusted.

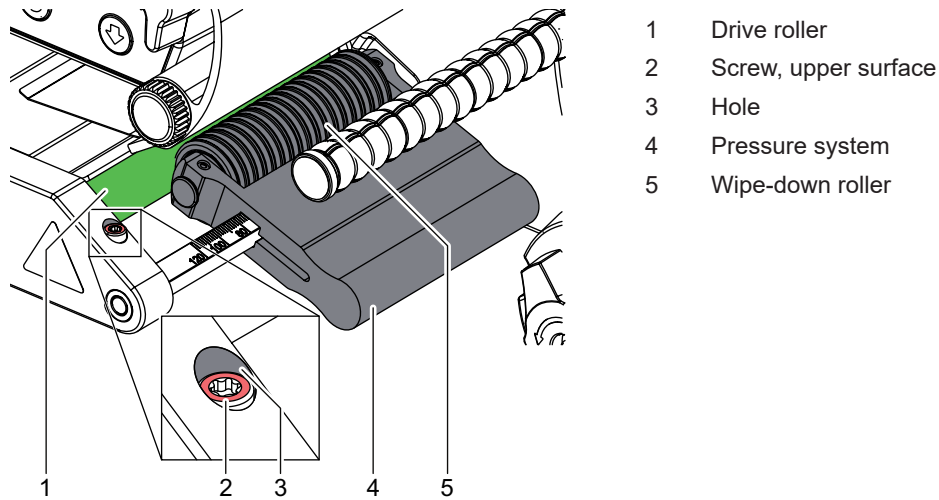


Figure 33 Adjusting the pressure system



Reference value for adjustment:

- ▶ **Align the upper surface of the screw (2) flush with the lower edge of the hole (3).**
- ▶ To adjust the stop of the pressure system, turn the screw (2) in or out incrementally.
- ▶ Make sure that the pressure system (4) engages in the upper position and that the wipe-down roller (5) rests against the drive roller (1).
- ▶ If media is loaded, it must not slip or buckle during dispensing.

6.2 Adjusting the pressure of the web brake



Note!

To ensure process reliability and reproducibility, cab recommends reading the set value from the scale and recording it.

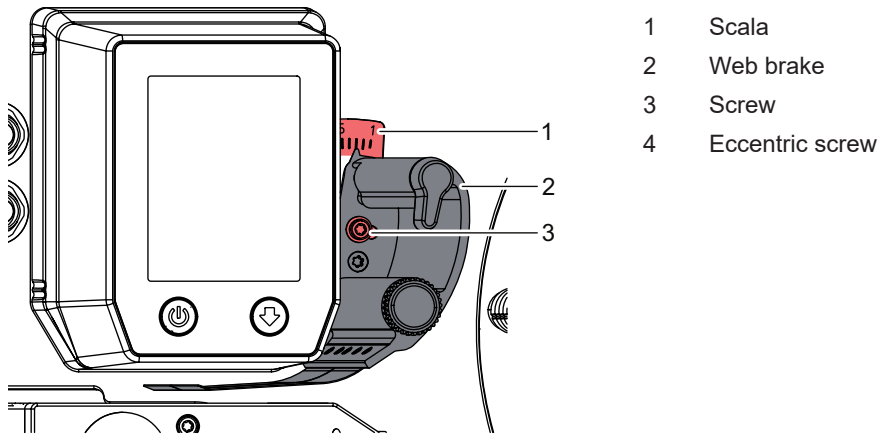


Figure 34 Adjusting the pressure system

- Loosen the screw (3).
- Move the web brake (2) along the scale (1) using the eccentric screw (4).
- Tighten the screw (3).



Note!

The following scale values serve as reference values for the pressure of the web brake:

Scale value 1: air gap (2 mm) between the web brake and the support; for foam materials, die-cut parts, and thick material (e.g., booklets)

Scale value 3: low pressure of the web brake

Scale value 5: maximum pressure of the web brake; for material that is difficult to dispense

6.3 Checking and adjusting the unwinder brake

After the unwinder has been replaced, the unwinder brake must be checked and adjusted.

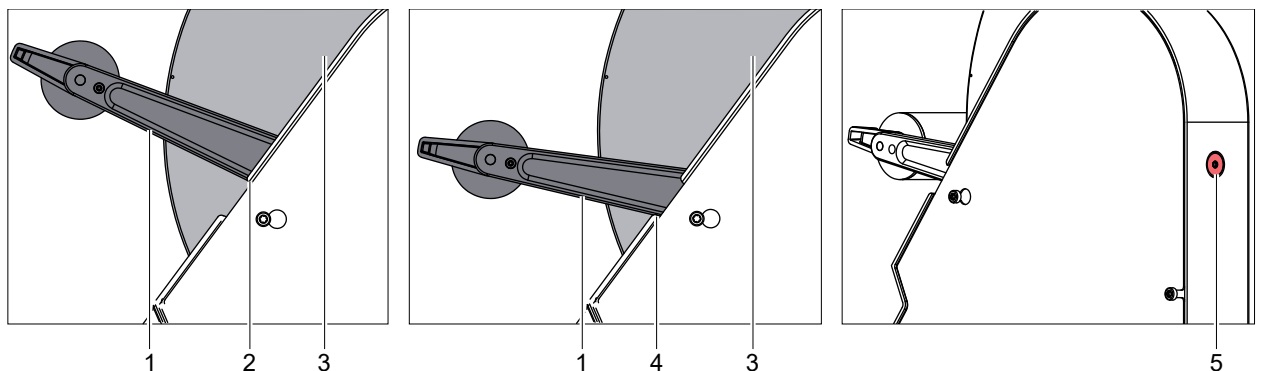


Figure 35 Bremse des Abwicklers einstellen

- 1 Pendulum arm
- 2 Upper adjustment point
- 3 Unwinder
- 4 Lower adjustment point
- 5 Worm bolt

**Brake adjustment points:**

- **Align the lower edge of the pendulum arm (1) flush with the upper adjustment point (2): brake engages**
 - **Align the lower edge of the pendulum arm (1) flush with the lower adjustment point (4): brake does not engage**
-
- ▶ To check the current setting, align the pendulum arm by hand with the upper adjustment point (2) and turn the unwinder (3). The unwinder must not spin freely.
 - ▶ Then align the pendulum arm by hand with the lower adjustment point (4) and turn the unwinder (3). The unwinder must spin freely.
 - ▶ If the adjustment points are not set correctly, turn the worm bolt (5) with a screwdriver using a screwdriver.
 - ▶ Then align the pendulum arm by hand with the lower adjustment point (4) and turn the unwinder (3). The unwinder must spin freely.
 - ▶ If the adjustment points are not set correctly, turn the worm bolt (5) with a screwdriver.
Re-check the adjustment points and readjust if necessary.

Funktionsfehler	Mögliche Behebung
No material transport	Check the electrical connections between the CPU PCB and the motor
	Check the drive mechanism
	Replace the CPU PCB
	Replace the motor
	Check the pressure system
Display does not work	Check the cable connection between the CPU PCB and the operating panel
	Replace the operating panel
	Replace the CPU PCB
Communication via an interface does not work	For Ethernet connections, check the validity of the IP address and subnet mask
	Check the interface cable and replace if necessary
	Replace the CPU PCB if the interface fails completely
A peripheral device does not work	Check whether the peripheral device is enabled via programming
	Check the peripheral device's interface connection and replace if necessary
	Check the peripheral device
	Replace the CPU PCB

Table 1 Failure of device functions

