CS 100 | OPERATING INSTRUCTIONS



Date of issue: 06/2025

GLW CRIMPING TECHNOLOGY

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General information

This chapter describes general information on these operating instructions.

About these operating instructions

Read these operating instructions carefully and keep them in a safe place.

These operating instructions contain important information on the safe and hazard-free use of the device.

Before using this device, the operating personnel must familiarise themselves with these operating instructions and the product.

Compliance with the safety instructions is a basic requirement when using the CS 100.

The operating instructions are part of the product and must be supplied with the product if it is moved to another location.

The original operating instructions are in the German language.

Storage of these operating instructions

These operating instructions must be kept in the immediate vicinity of the product and must be accessible to operating personnel at all times.

These operating instructions must be kept until the product has been returned to GLW.

Target group

These operating instructions are intended for the operating personnel of the device operator.
Only trained personnel may operate the device.

Limitation of liability

The following are generally excluded from liability:

- Non-observance of these operating instructions
- Non-intended use
- Use of unauthorised spare and wear parts
- Operation by untrained personnel
- Maintenance by untrained personnel
- Troubleshooting and fault rectification by untrained personnel

Unauthorised modification of the device is not permitted for safety and liability reasons

Validity

The operating instructions are valid for the complete CS 100.

The operator must:

- make the operating instructions accessible to the operator and
- make sure that the operator has read and understood them.

Authorised operators

Only authorised and trained operators may work on the CS 100.
The operator is responsible to third parties in the operating area.

Symbols

The following symbols are used in these operating instructions:


indicates a possible **risk of accident and injury** or possible **damage** to the CS 100.


correct usage or setting


indicates **instructions for use**.

Basic information

In simple terms, only the article description CS 100 is used in the following.
The basic prerequisite for safe handling and trouble-free operation of the CS 100 is knowledge of, and compliance with, the safety instructions.

It's about your safety!

The safety instructions must be observed by **all** persons working with the CS 100.

In addition, the rules and regulations applicable to the place of use, in particular those relating to accident prevention, must be observed.

Guarantee

In principle, our "General Terms and Conditions of Sale and Delivery" apply. These are available to the operator at the latest upon conclusion of the contract.

Warranty and liability claims for personal injury and damage to property are excluded in the event of infringement of the following points:

- Improper use of the CS 100.
- Improper operating places.
- Improper use beyond that described in the operating instructions.
- Unauthorised structural modifications to the CS 100.
- Continued operation of the CS 100 if faults are detected.
- Improperly carried out repairs.


Only use original spare parts.

Safety

This chapter describes the general instructions for the safe operation of this device.

General safety instructions

The CS 100 is built in accordance with recognised safety regulations.

It is equipped with safety devices.

Nevertheless, incorrect operation or misuse can pose a risk to

- life and limb of the operator,
- the machine.

The CS 100 is only to be used

- for its intended use and
- in perfect condition in terms of safety.

All persons involved in the commissioning, operation and maintenance of the CS 100 must

- be appropriately qualified and
- follow these operating instructions carefully.

Intended use

WARNING:

The CS 100 is designed exclusively for stripping solid and stranded round conductors (strands) from 0.08 - 10 mm² (AWG 28-8).

Very hard insulation will damage the stripping blades and must not be processed.

Under no circumstances should you feed in solid metal parts or similar objects, as these can damage the stripping blades and the clamping jaws.

Modifications to the CS 100 are prohibited for safety reasons!

WARNING:

The removal of warning notices and safety stickers is not permitted.

WARNING:

Use is only permitted in dry and clean production facilities.

ATTENTION: Observance of all instructions and compliance with the prescribed operating conditions are part of the intended use.

WARNING: The CS 100 may only be used

- for its intended use and
- in perfect condition in terms of safety.

Any other use or use beyond this is considered improper use.
GLW shall not be liable for any resulting damages.

WARNING:

All persons involved in the commissioning, operation and maintenance of the CS 100 must

- be appropriately qualified and
- follow this user manual carefully.

Non-intended use

- The device is not being used as intended if it is operated outside the specifications.
- The use of non-specified materials.
- Use of the device in the event of strong vibrations in the area of the installation site.

Foreseeable misuse

Misuse can include:
- Non-observance of these operating instructions
- Stripping of unauthorised conductor cross-sections
- Blowing out the device with compressed air
- Cleaning with solvents or cleaners

Hazard area

WARNING:

The CS 100 may only be operated with a fully intact waste tray inserted, as this also acts as a hand guard.

Switch off the CS 100 during work breaks and when not in use.

The CS 100 may only be operated with original GLW stripping blades.

Behaviour in the event of danger

In the event of danger, disconnect the device from the power supply to switch it off.

Responsibility of the operator

An operator is anyone who operates a machine or system for commercial or economic use. Transfer to third parties is not permitted.

This results in the following obligations for the operator:

- be familiar with and implement the health and safety regulations
- carry out a risk assessment
- train staff at regular intervals and inform them about hazards
- create operating instructions for the operation of the device
- clearly regulate and define the responsibilities of staff
- the authorised personnel must have read the operating instructions before commissioning

In addition, there are obligations from other regulations that apply locally.

Safety devices

The CS 100 is switched off by

- pressing the mains switch
- unplugging the mains plug

WARNING:

The waste tray (hand guard) is required for the safety of the operator. Under no circumstances may it be modified or circumvented by alterations.

Personnel qualifications

Only trained and instructed personnel may work with the equipment.

Instructed person:

An instructed person is a person who has been briefed in detail and verifiably by the operator about the tasks assigned to them and the possible dangers.

WARNING Risk of injury due to insufficient qualification.

Improper handling may result in severe personal injury and damage to property.

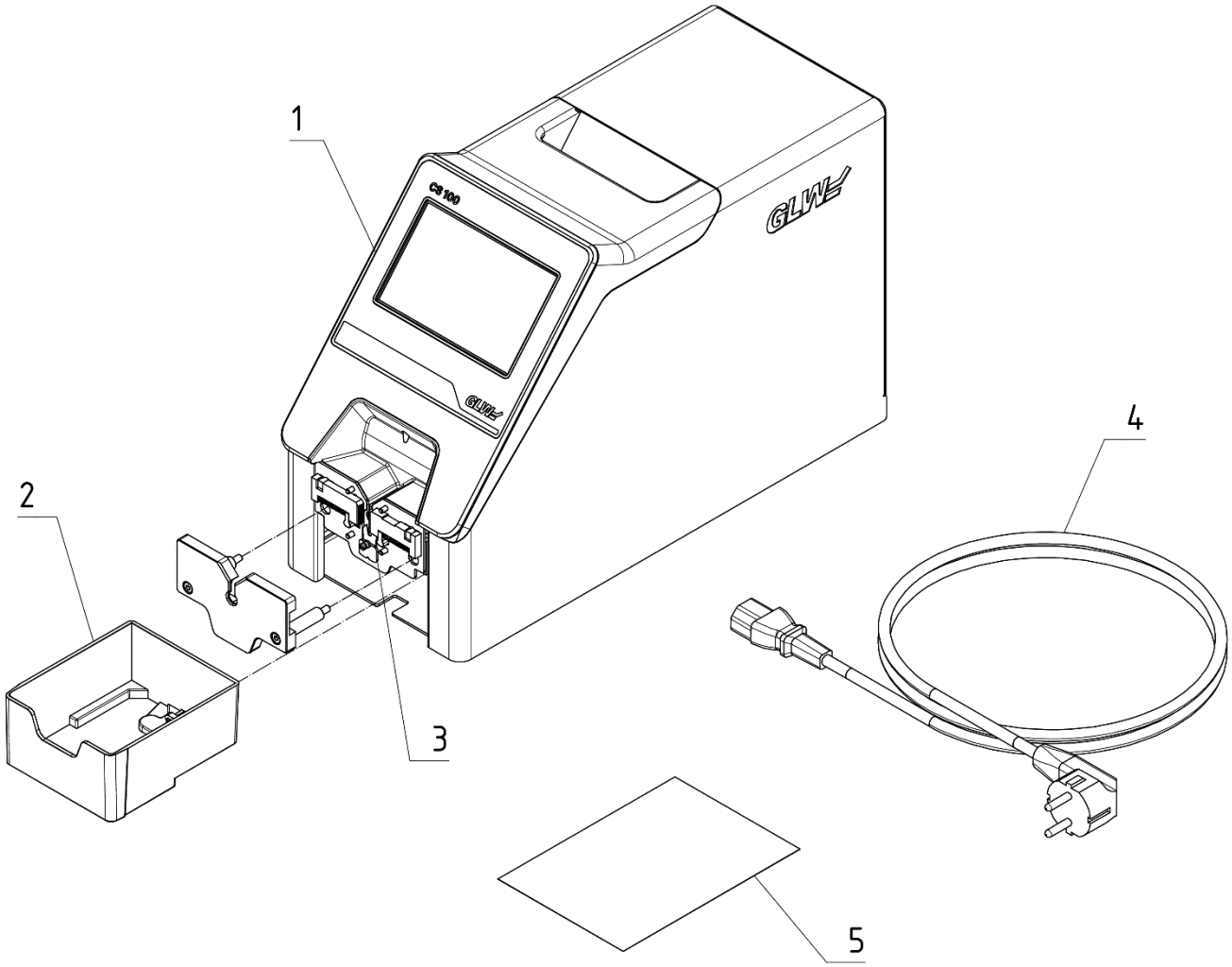
For your safety

WARNING:

For safety reasons, it is not permitted to open the device or dismantle sub-assemblies, with the exception of designated wearing parts.

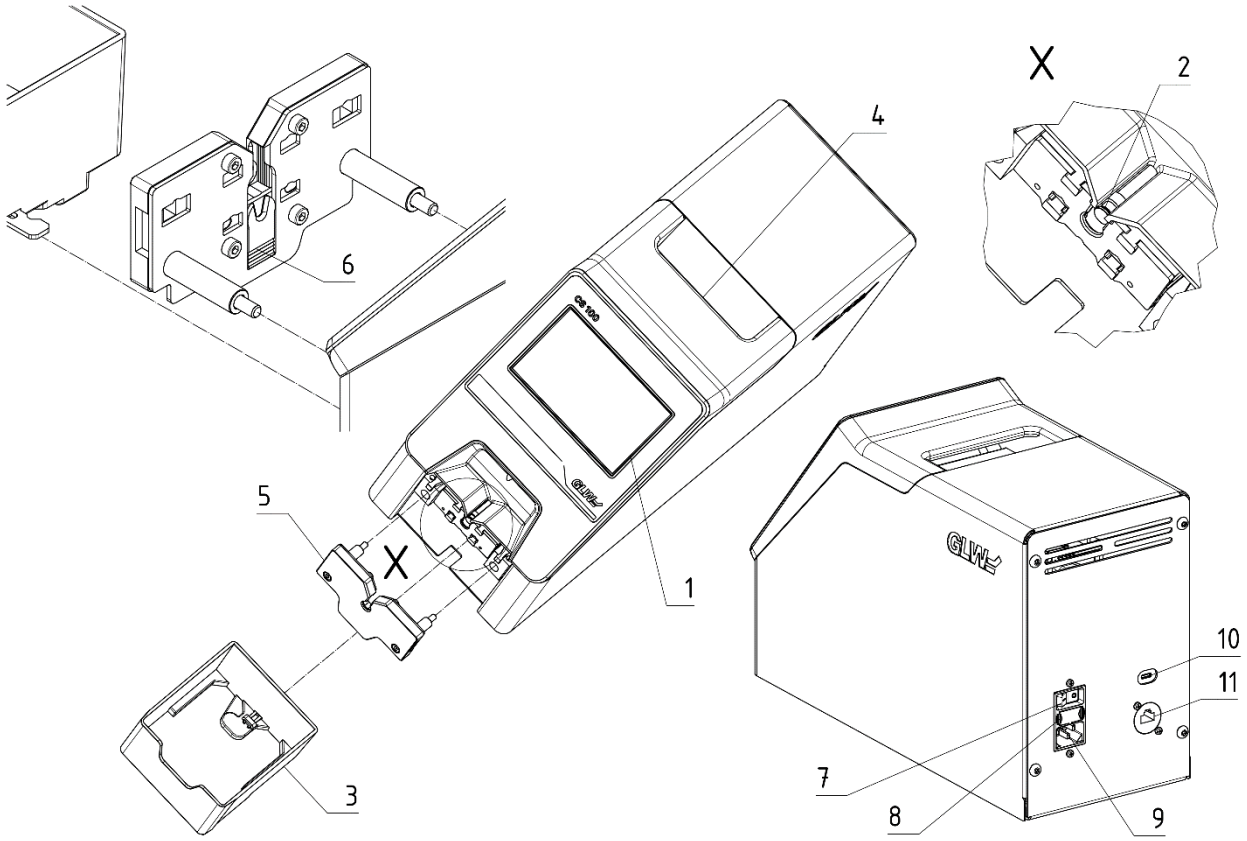
CS 100 machine description

Contents



Type	Contents
CS 100	1. CS 100 wire stripper
	2. Waste tray (hand guard)
	3. Cable centring aid
	4. Mains cable
	5. Quick guide

Overview of the operating controls



1. Display/control panel:
   - Display of settings, messages and errors.
   - For setting the trigger length and stripping length.
   - For setting the conductor diameter. (incision depth)

2. Start button: Place the conductor that you wish to strip into the device, then press the start button to start the stripping process.

3. Waste tray: Also serves as a protective cover and collection container for insulation remnants.

4. Recessed grip: For convenient transport of the device.

5. Front panel: Guides cable centring aid

6. Cable centring aid (rear of the front panel): Facilitates the stripping of thin conductors.

7. Mains switch: Switches the power supply on and off.

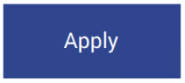
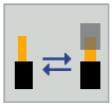
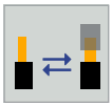
8. Mains fuse: Miniature fuses (2 pieces) 2 A / 250 V, slow blow, 5 x 20 mm, integrated in the mains connection

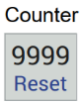
9. Mains connection: Device connection for the mains cable.

10. USB-C connection: Interface for a barcode scanner (saving and viewing favourites)

11. Interface: RJ45 interface for controlling the device via superordinate software

Control panel

Button	Function of the button
	**To the main menu** Opens the main menu
	**Open favourites menu** Opens the favourites menu Edit and save favourites
	**Change pages** Use the arrow keys to switch between pages
 	**Change numerical values** Press the + button Increases the value in small steps Press and hold + Increases the value continuously Press the − button Reduces the value in small steps Press and hold − Reduces the value continuously
	**Accept entries** Set values are saved
 	**Switch between full stripping and partial stripping** Full stripping Function is displayed showing the trigger length Partial stripping Function is displayed showing the stripping length and trigger length.

	**Change between mm² and AWG** Cross-section adjustment Quick change of units
	**Set counter to zero** Pressing and briefly holding the button resets the counter reading to zero.
	**Select favourites** Press the number of the favourite to select it.
	**Edit favourites** A favourite can be created or edited by pressing one of the values.
	**Favourites – Open submenu** Values can be deleted or transferred from the main window.
	**Assigning a barcode to a favourite** Press , scan barcode, enter settings and save.
	**Assigning a label text to a favourite** Press , enter text and save.
	**Close window** Press  to close the window.
	**Unlocking the device** Unlock the device by pressing the  button and confirm by entering the PIN.

Workplaces

ATTENTION: For operation and storage avoid:

- damp or dusty places and
- locations which are exposed to high levels of heat, direct sunlight or low temperatures (operating range: 10 °C to 40 °C).

ATTENTION:

- Do not spill any liquids on the CS 100.
- Do not expose the CS 100 to strong vibrations or shocks.

Transport and storage

Transporting the device

The device is transported by a commercial vehicle.

The packaging may be a pallet, a cardboard pallet box or a cardboard box, depending on the type and size of the components to be transported.

NOTE

In the case of overseas transport, packaging suitable for overseas transport must be used. It is recommended to keep the original packaging for the return shipment.

The device may only be lifted using the recessed grip provided for this purpose.

NOTE

The waste tray must be completely emptied before moving the device.

Store the device:

- in dry and clean places
- in places that are **not** exposed to high levels of heat, direct sunlight or low temperatures (operating range: 10 °C to 40 °C).

Commissioning

Selecting an installation site

ATTENTION:
The installation site must be level and horizontal and able to support the weight of the device.

ATTENTION:
The device must be placed on a flat, solid surface and the ventilation slots must not be covered.

ATTENTION: For operation and storage avoid:

- damp or dusty places and
- locations which are exposed to high levels of heat, direct sunlight or low temperatures (operating range: 10 °C ... 40 °C).

NOTE:

The conditions in chapter "General safety instructions" must be observed.

Electrical installation

DANGER: Risk of injury due to electric shock.

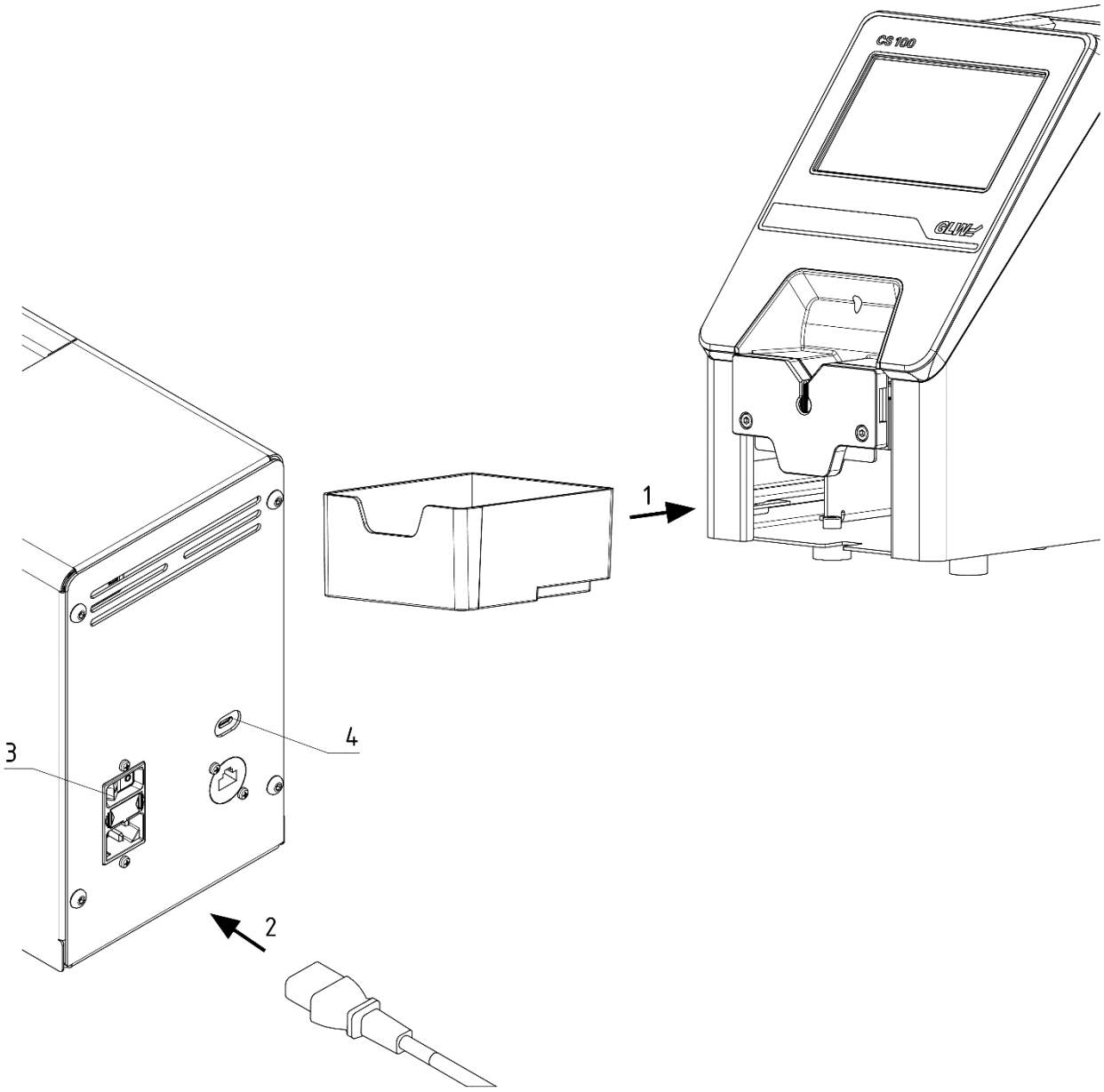
There is a possibility of burns and even fatal injuries.

- Before you start working, make sure that all cables are disconnected.
- Secure the cables to ensure they do not get connected again.

Check the correct position of the cables to avoid malfunctions in the system.

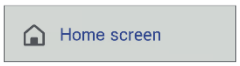
Preparing the device for operation

1. Insert the waste tray into the device
2. Connect the mains cable
3. Switch on the device at the mains switch
4. Optionally, a scanner can be connected to the USB port

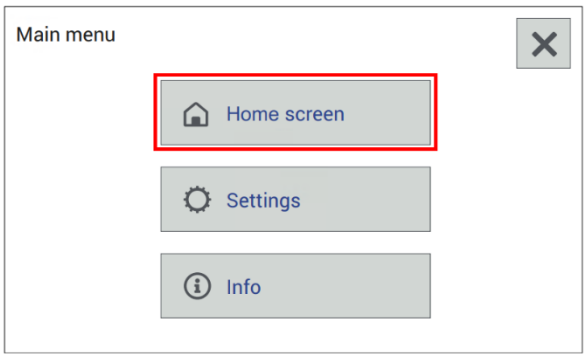


Operation

Main screen

- Open main menu with 
- Open the main screen menu with 

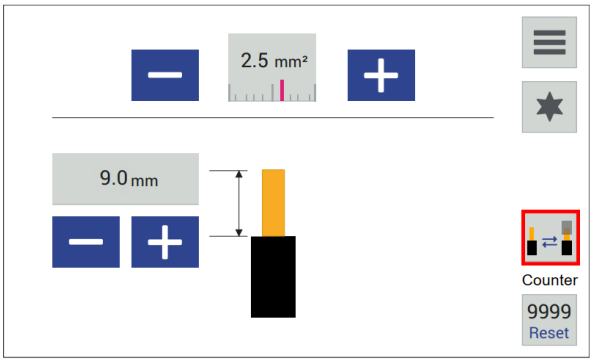
Main menu



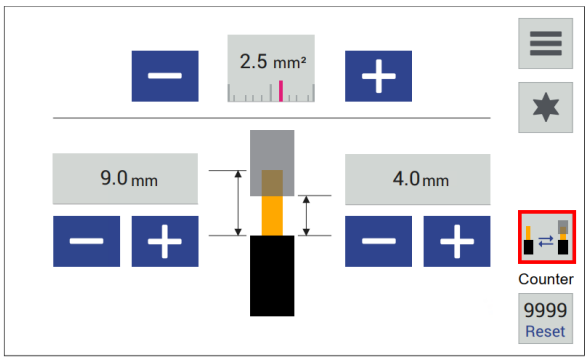
Switch between full and partial stripping

Press  to switch between full and partial stripping.

Home screen - full strip



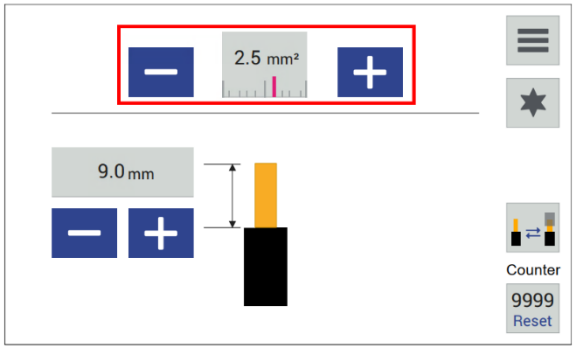
Home screen - partial strip



Setting the conductor cross-section

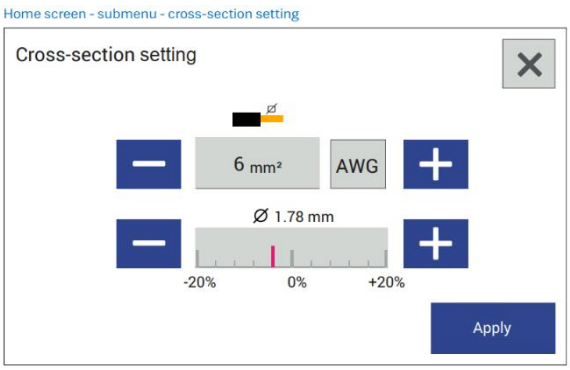
- Above: The conductor cross-section can be set with buttons  and 

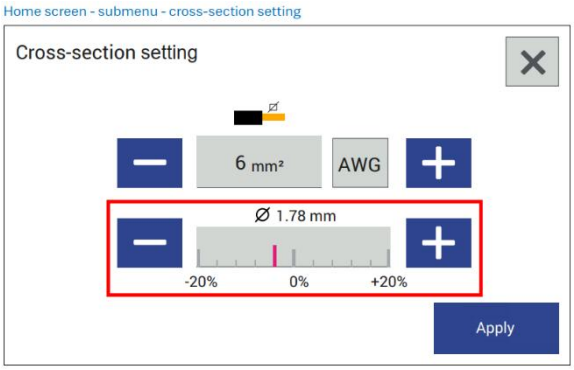
Home screen - full strip



- Button 

opens the submenu - Cross-section settings

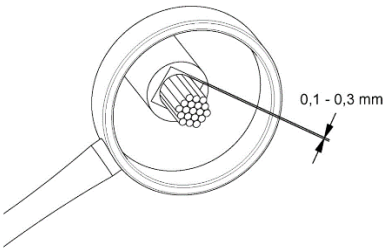




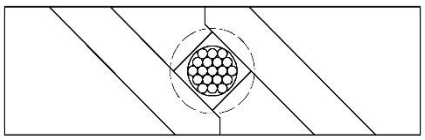
- Below: Fine adjustment of the conductor cross-section with + and −
  - If the insulation is cut too deeply, increase the conductor diameter with +.
  - If the insulation is not cut in enough, reduce the conductor diameter with −.
- Save settings with Apply

<u>Info: Fine adjustment of conductor cross-section</u>

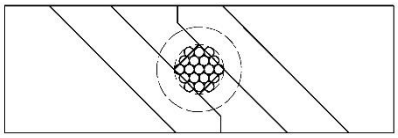
Check the cutting depth with a test cut and correct the setting if necessary.
The cut in the insulation should stop 0.1 - 0.3 mm before the conductor so as not to damage it.



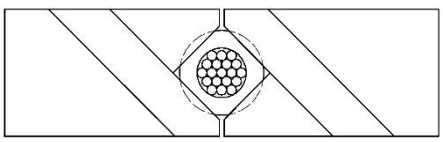
- Blades have sufficient safety clearance from the conductor and cut the insulation cleanly.



- Blades cut too deeply into the conductor. Blades can be damaged!



- Blades do not cut the insulation enough. Blades can be damaged!



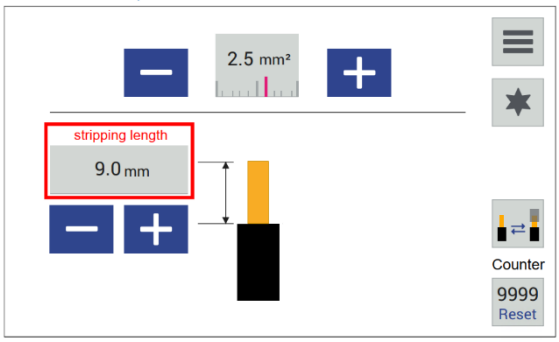
<u>Change of cross-section mm² / AWG</u>

- The cross-section information can be changed by pressing AWG or mm².
- Apply: settings are saved

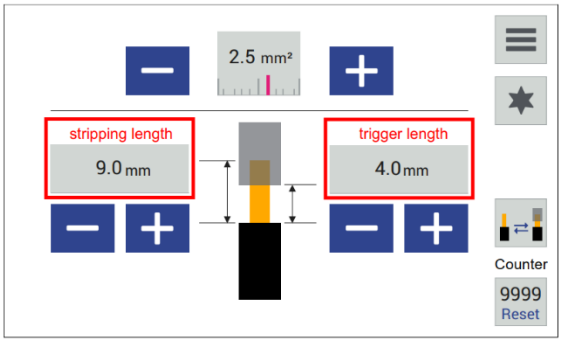
Setting the stripping length

Use the button  to select “Full stripping” or “Partial stripping”.

Home screen - full strip



Home screen - partial strip



- left side: Setting the stripping length
- right side: Setting the trigger length

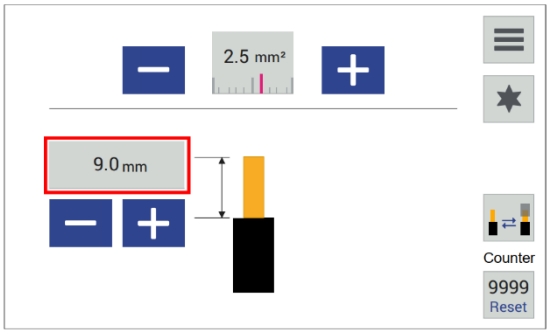
Set values by tapping or holding down + and −.

“Alternative“

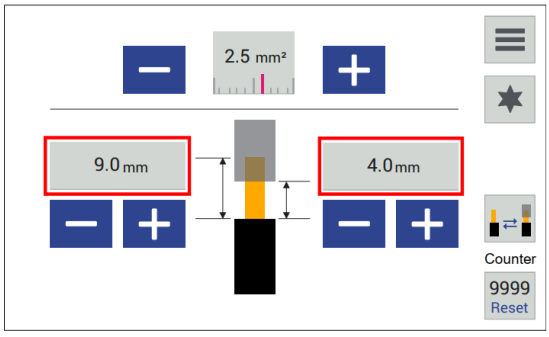
Setting the stripping length directly

Use the button  to select “Full stripping” or “Partial stripping”.

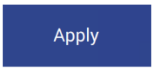
Home screen - full strip



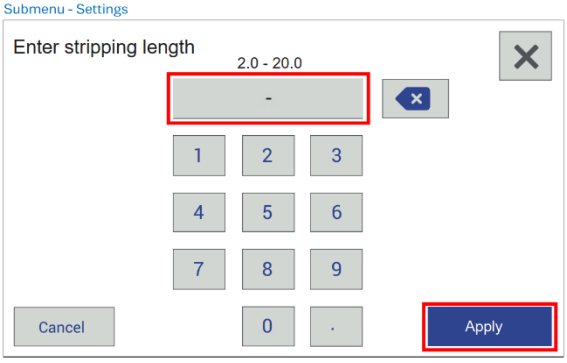
Home screen - partial strip



- left side: Setting the stripping length
- right side: Setting the trigger length

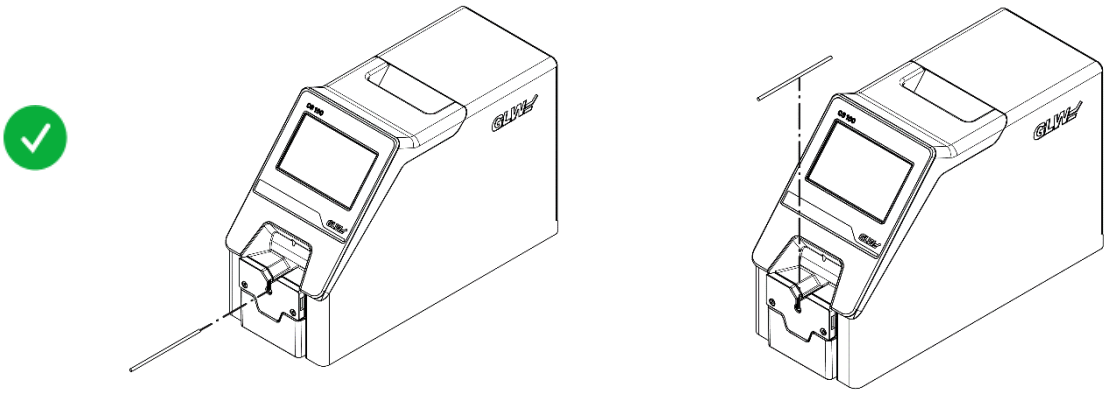
- Open the input field with .
- Enter the desired stripping length;
  Possible numerical values are displayed,
  if the entry is too large or too small, it appears in red.
- Save with 
- New stripping length is displayed in the main menu.

Submenu - Settings

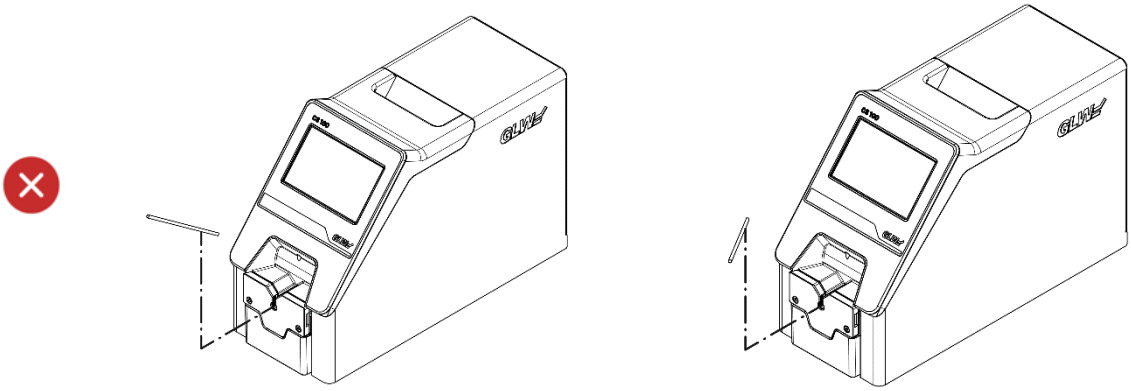


Stripping

- Insert the conductor horizontally into the device.
- Activate the start button as centrally as possible.
- Conductors up to a conductor cross-section of 2.5 mm² can also be conveniently inserted horizontally into the device from above.

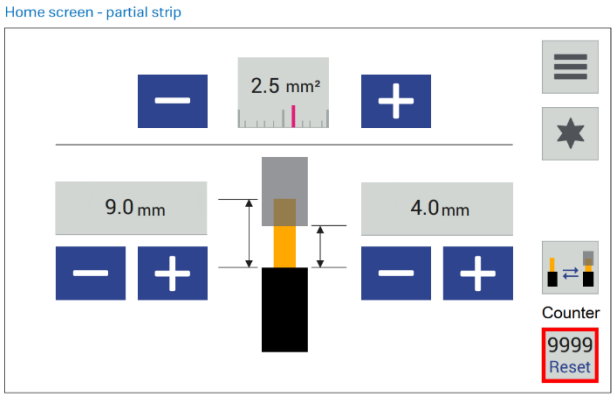


Conductors inserted at an angle can cause faults!



Reset the counter

Press 9999 Reset to set the counter reading to zero.

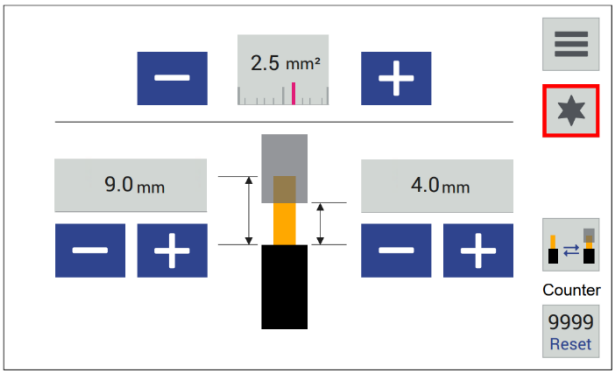


Favourites

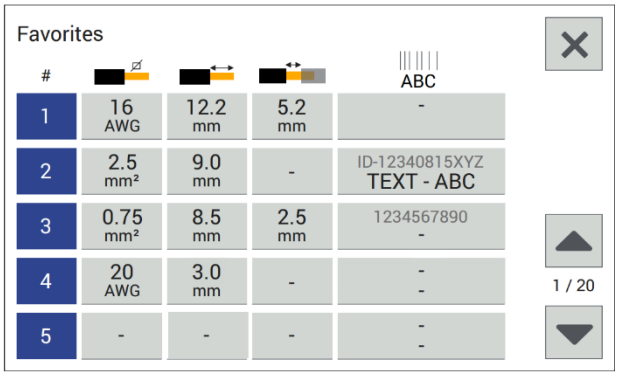
Favourites list

- Open the favourites list with the  button (main screen).

Home screen - partial strip



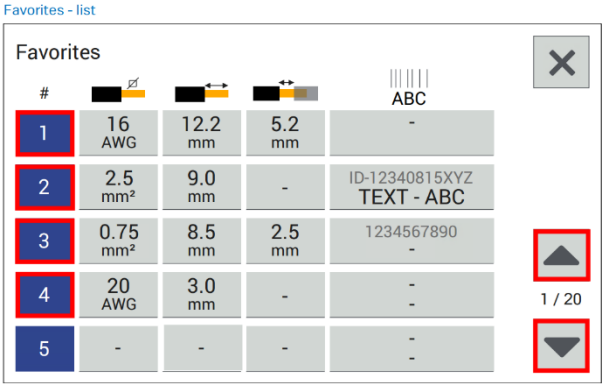
Favorites - list



Viewing favourites

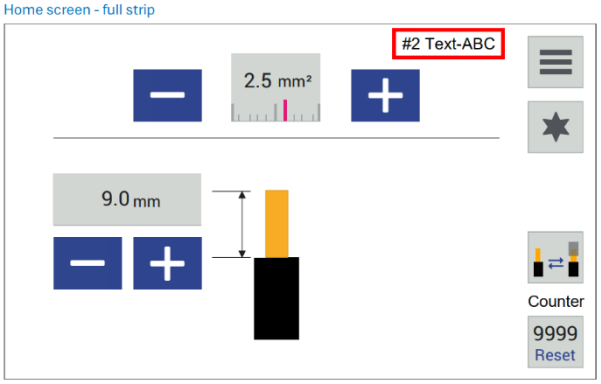
- Use the arrow keys  to switch between pages

Favorites - list



- Use the # button  to select the desired favourite
- The main screen opens automatically

Home screen - full strip



The **number of the favorite** is displayed with **#** (top right).

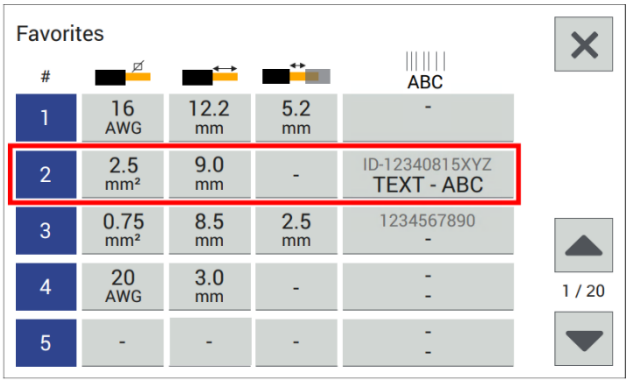
If a favourite with **label text** is saved, this is also displayed.
Label text is optional.

Save / edit favourites

Stripping parameters that have already been set can be saved as favourites

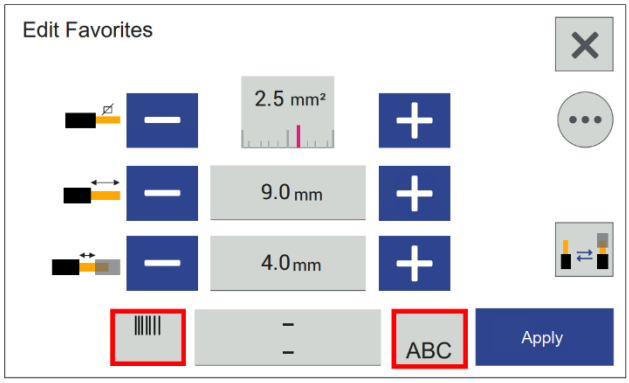
- Open favourites menu with ★
- Use ▲ to search for specific favourites or a free space in the favourites list
- Tap in a grey field of the desired favourite

Favorites - list



- Editing window opens

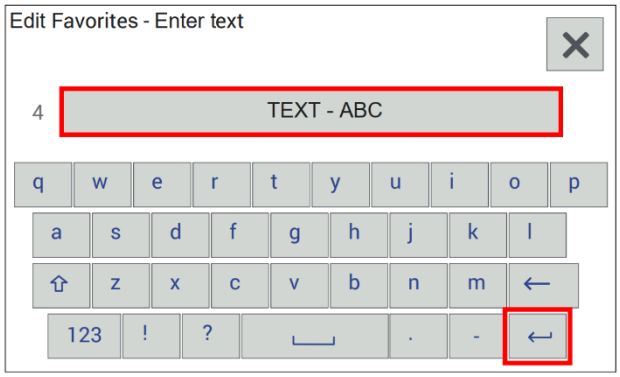
Editing



- Set the stripping parameters
- Open the input field with ABC
- Optionally enter label text;

  delete the text by pressing ABC for a long time

Editing

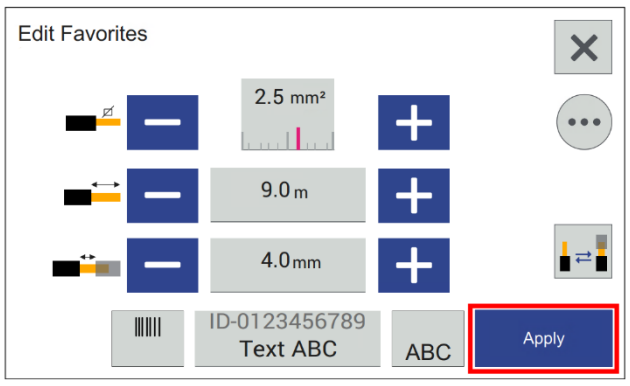


- Use ↵ to close window
- Optionally assign a barcode with ▮▮▮;

  delete the barcode by pressing ▮▮▮ for a long time.

  (see Using the barcode scanner)

Editing

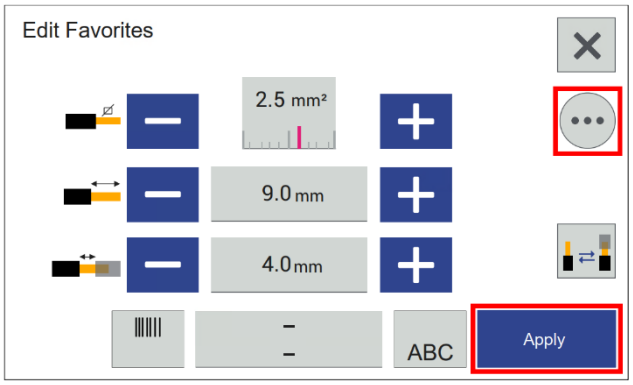


- Save with Apply

"Alternative"

- Open submenu with 

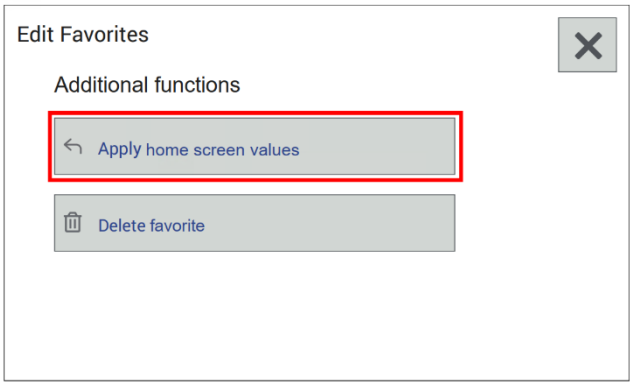
Editing

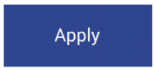


- Use 

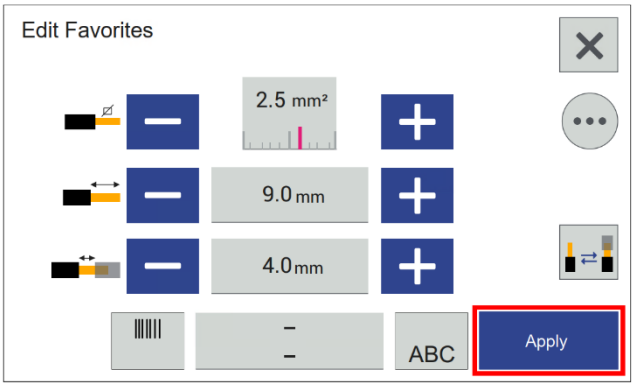
to transfer settings from the main window.

Submenu - Favorites



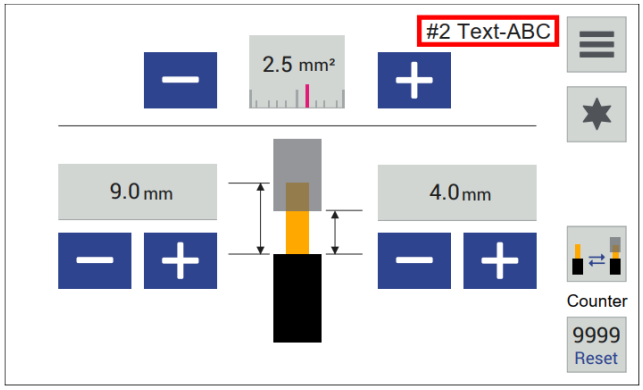
- Save settings with 

Editing



- New favourite is in the favourites list

Home screen - partial strip



If a favourite is saved with label text, it will be **displayed on the main screen**.

Label text and barcode are optional.

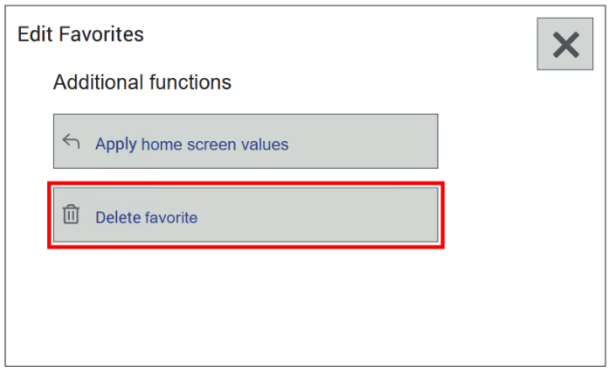
The **number of the favorite** is always displayed with **#**.

Deleting favourites

- Open favourites menu with 
- Search for desired favourites with 
- Open the editing window by tapping in a grey field of the favourite
- Open the submenu via the button 
- Delete all settings for this favourite with 

  .

Submenu - Favorites



Using the barcode scanner (optionally available)

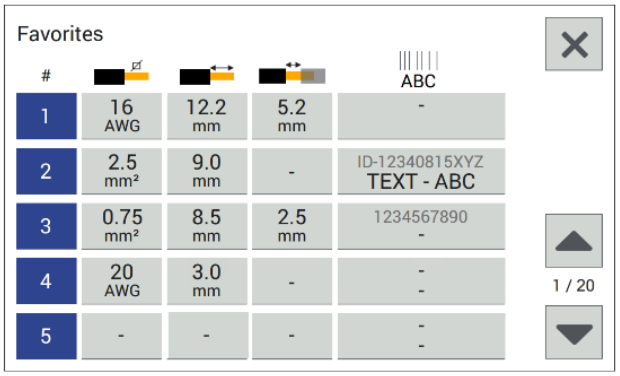
The barcode scanner is connected via USB to the back of the device.

Assigning a barcode to a favourite

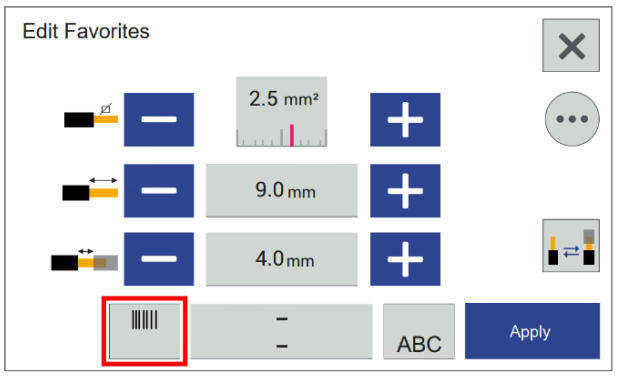
Each barcode can only be assigned to one favourite!

- Open favourites menu with 
- Search for desired favourites with 
- Open the editing window by tapping in a grey field of the favourite
- Press the barcode field 
- Small line flashes until a barcode arrives or the barcode button is pressed again
- Scan the barcode to be assigned to the favourite
- Small line flashes until barcode arrives

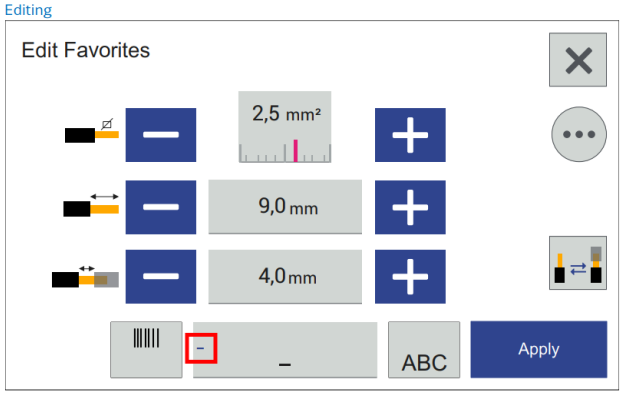
Favorites - list



Editing

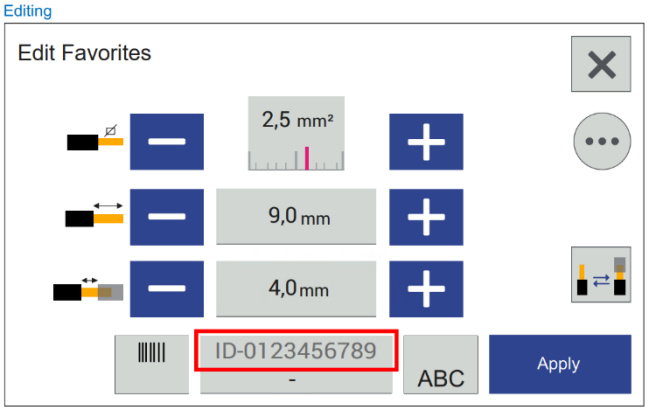


Editing

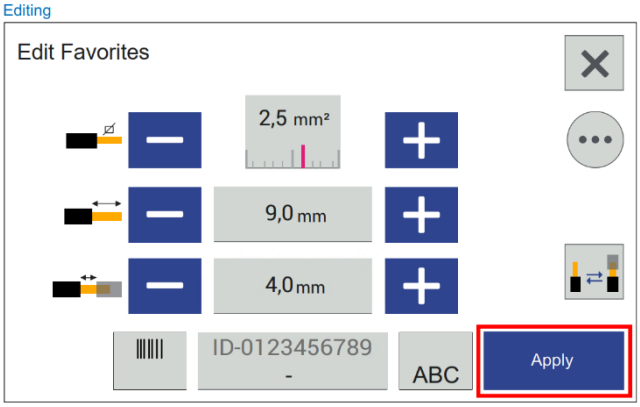


- Barcode is displayed
- Enter settings in the editing window
- Optionally enter a label text with ABC
- Save settings with Apply

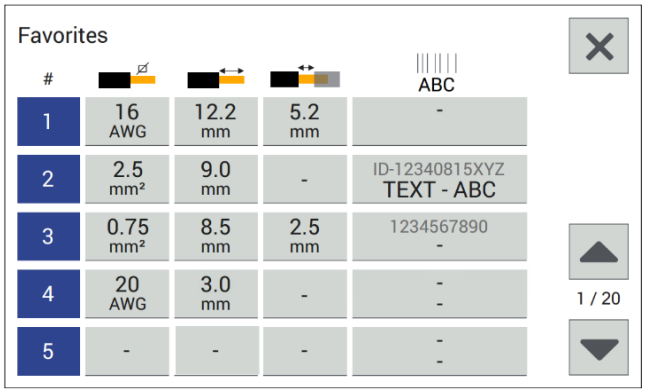
Editing



Editing



Favorites - list



Selecting a favourite with the barcode scanner

To select the favorite with the barcode scanner, the favorites list does not need to be open!!

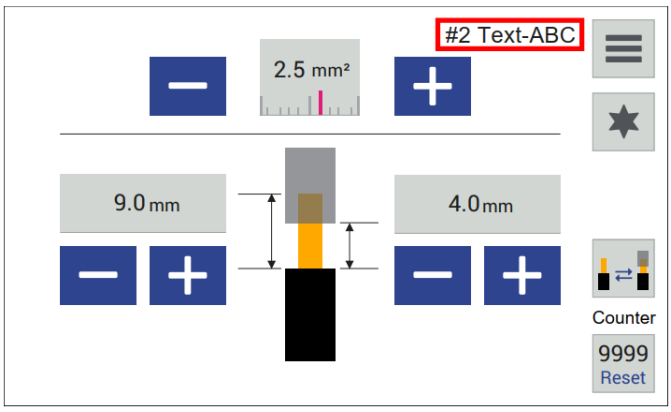
The favorite can be selected directly in the main screen menu by scanning.

- Main screen menu is opened
- Scan linked barcode
- Favourite settings are applied automatically
- The device updates the main screen

If a favourite is saved with label text, it will be **displayed on the mainscreen**.

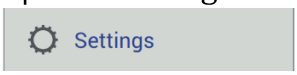
The number of the favorite is always displayed with #.

Home screen - partial strip

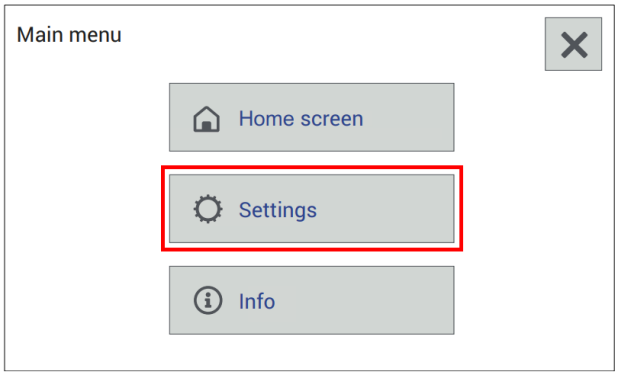


Settings

- Open main menu with 
- Open the settings menu with



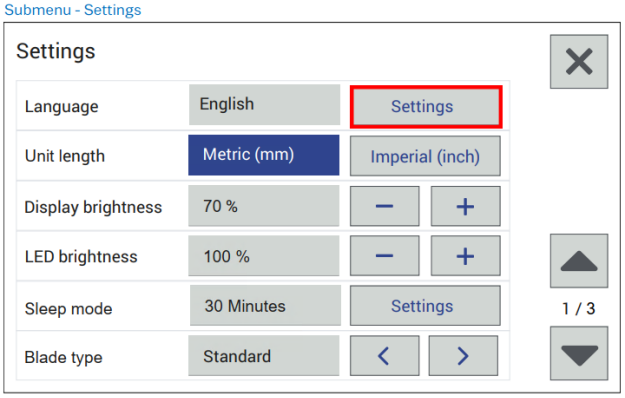
Main menu



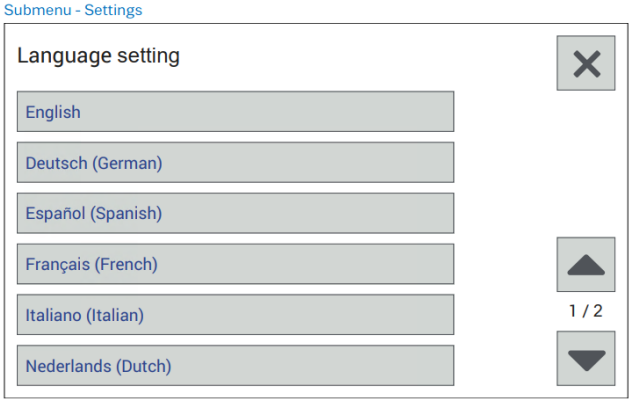
Setting/changing the language

- The language change takes about 2 minutes.
- The device is restarted when the language is changed.
- Do not switch off the device during this time!

Submenu - Settings

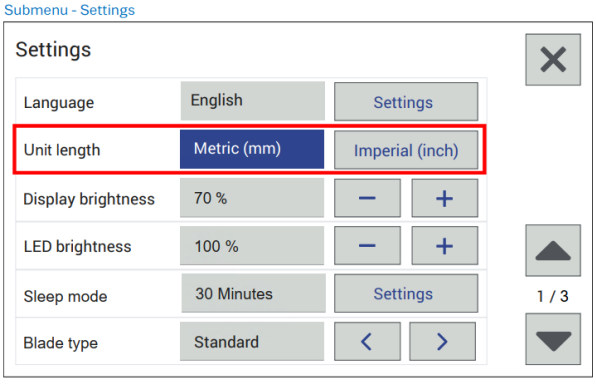


Submenu - Settings



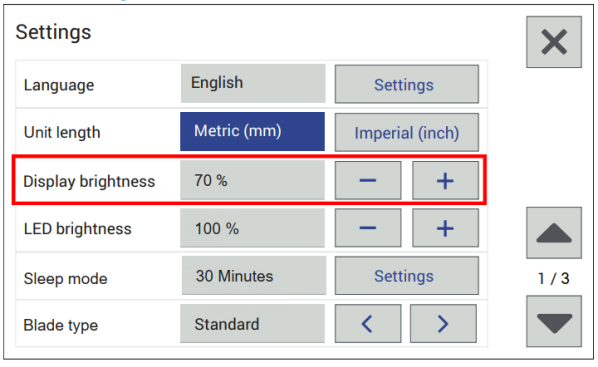
Set/change unit of length

Submenu - Settings

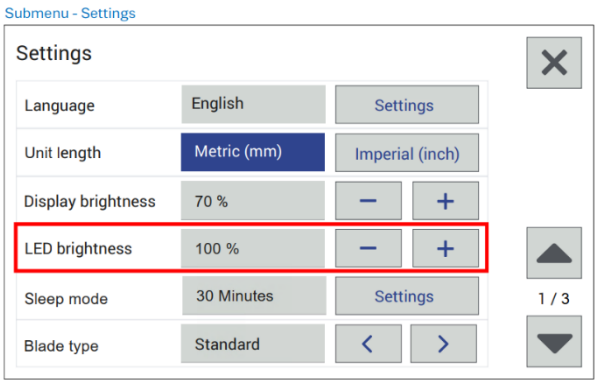


Set/change display brightness

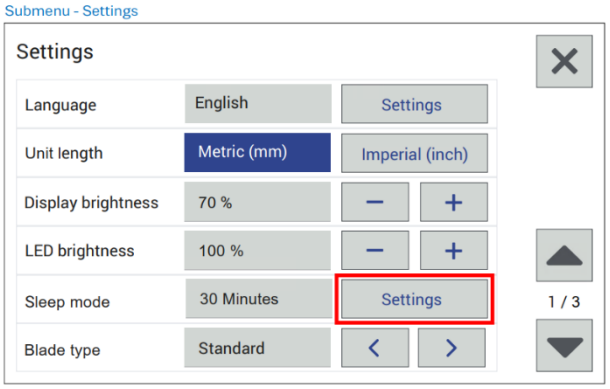
Submenu - Settings

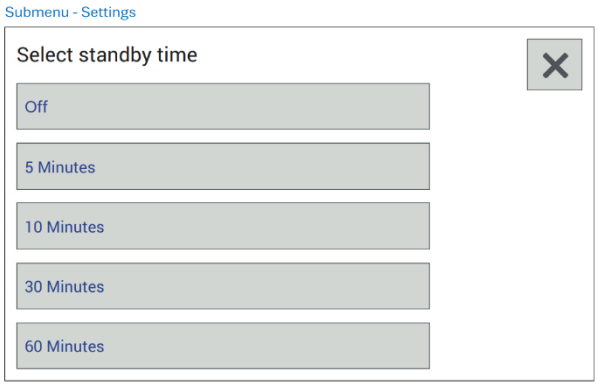


Set/change LED brightness

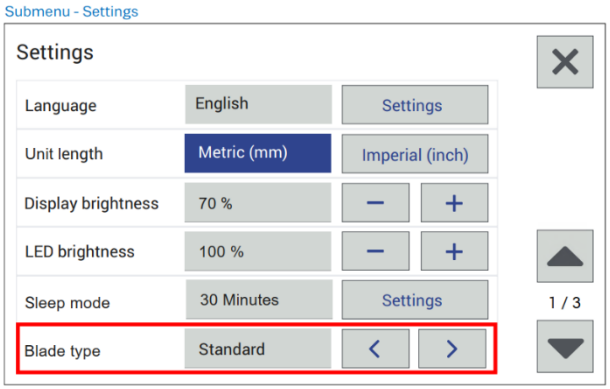


Set/change standby time





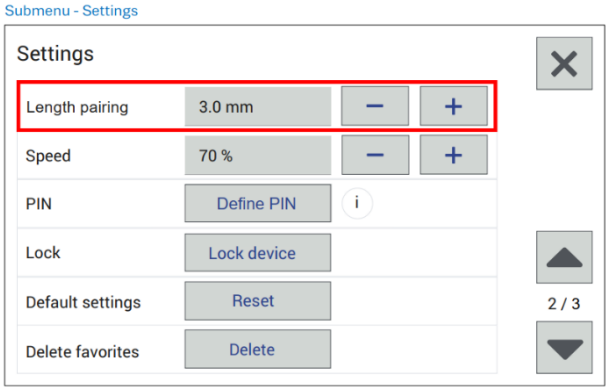
Set/change special blade



Use < > to select the blade type:

- Standard
- Forming blades (special blades for difficult-to-machine conductors)
- Flat blades (special parallel blades for flat ribbon cables up to 7.6 mm wide)

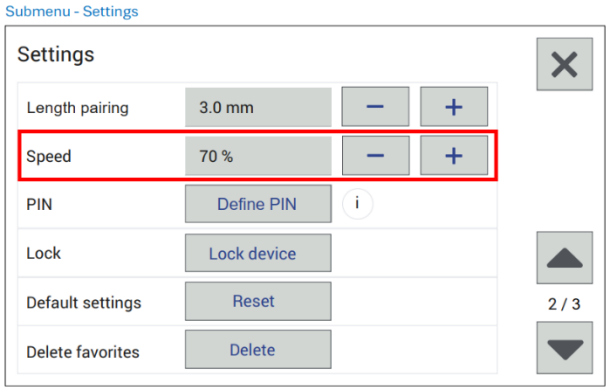
Set/change automatic partial stripping



When the stripping length is changed, the partial stripping automatically moves by the set value

Default value: 3 mm

Set/change speed back

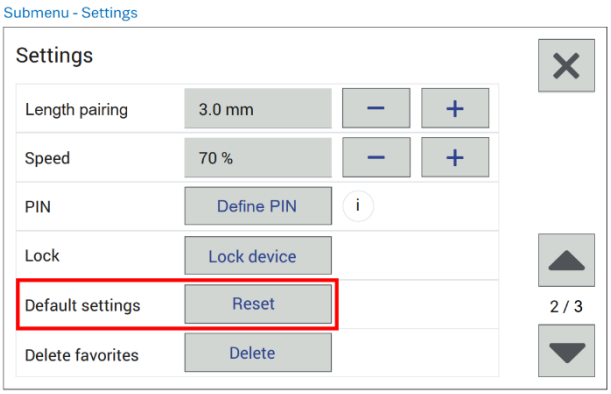


Set the return speed of the stripping carriage

Default value: 70%

A reduction ensures smoother running and protects the mechanics.
The pure processing time is not affected, as only the movement after opening the cable clamp is affected.

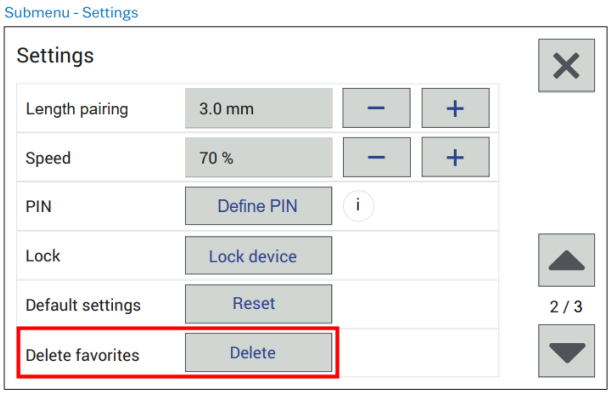
Reset factory settings



All settings are deleted and the device is reset to the factory settings.

The favorites are also deleted.

Delete favourites



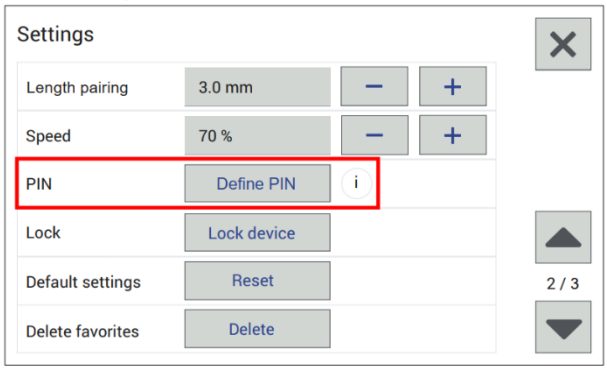
All favourites are deleted.

Change/set PIN

The default PIN for locking and unlocking the device is **5555**.

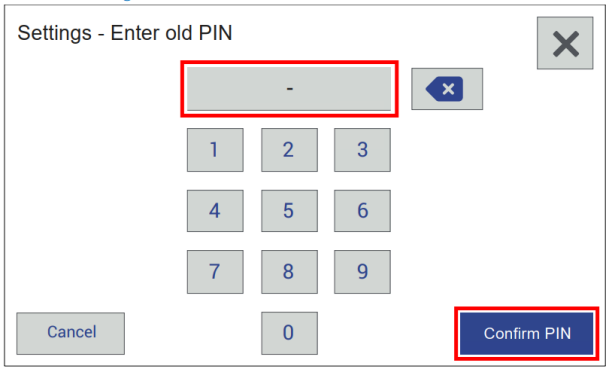
- Press Define PIN

Submenu - Settings



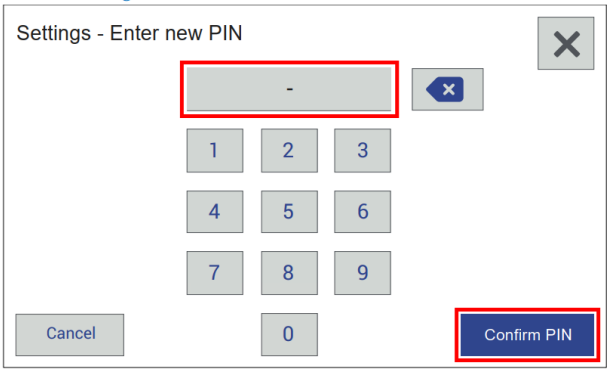
- enter the preset PIN
- confirm with Confirm PIN

Submenu - Settings



- Enter desired PIN
- confirm with Confirm PIN
- Confirm the new PIN by entering it again
- Be sure to **document** the new **PIN**, otherwise the device can no longer be operated!

Submenu - Settings

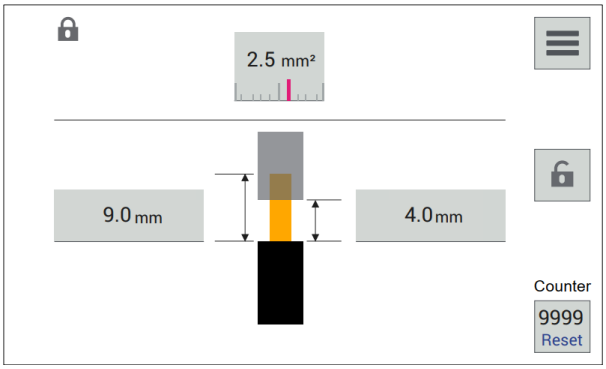


Locking the device/setting the lock level

Two locking levels are possible:

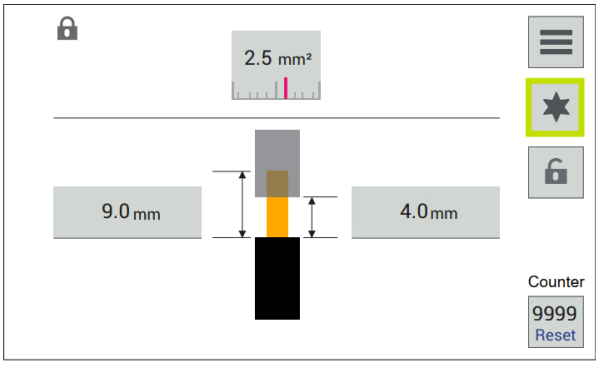
- Lock the device completely (no changes to the settings and stripping parameters possible)

Home screen locked - Completely lock



- Selection of preset favourites is permitted

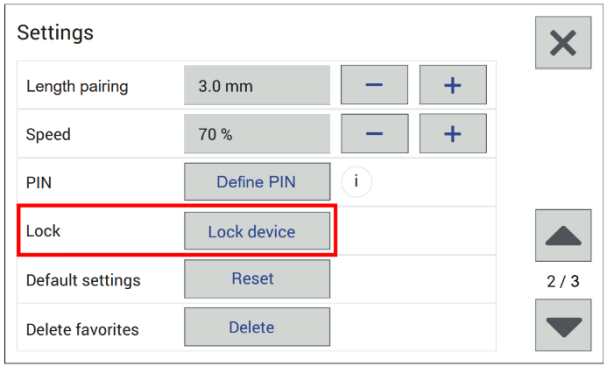
Home screen locked - Allow selection of favorites



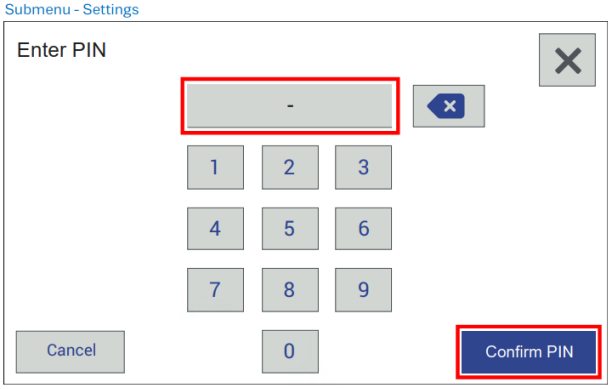
- Lock device with Lock device and set lock level.

  ➔ Allow favourites selection with Allow selection of favorites or lock them completely with Completely lock.

Submenu - Settings



Submenu - Settings

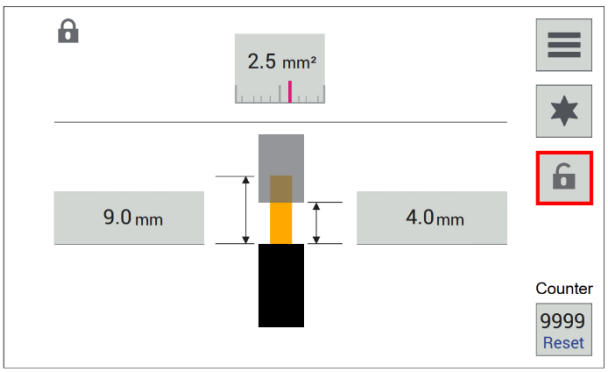


- Confirm locking by entering the PIN
- Main screen appears automatically

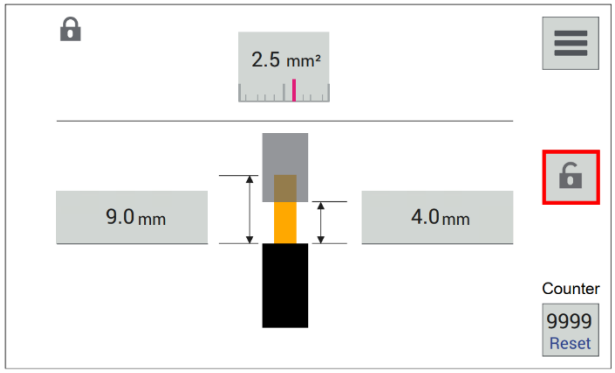
Unlocking the device

- Unlock with the button

Home screen locked - Allow selection of favorites



Home screen locked - Allow selection of favorites



- Confirm unlocking by entering the PIN

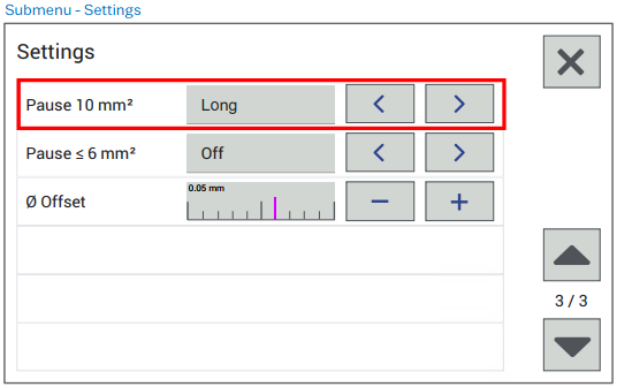
Valid from version D01-003 (page 3)

- The following setting options (Settings, page 3) are only possible from version D01-003 onwards.
- The version can be seen in the Info menu.

Settings pause at 10 mm²/AWG 8

- Strands with **10mm²/AWG 8** are **always** stripped with a break/time delay.
- The pause can be set with < and > to **short** or **long**.
- The pause **cannot be switched off**.

Submenu - Settings



Submenu - Settings



Settings-Pause up to 6 mm²/AWG 10

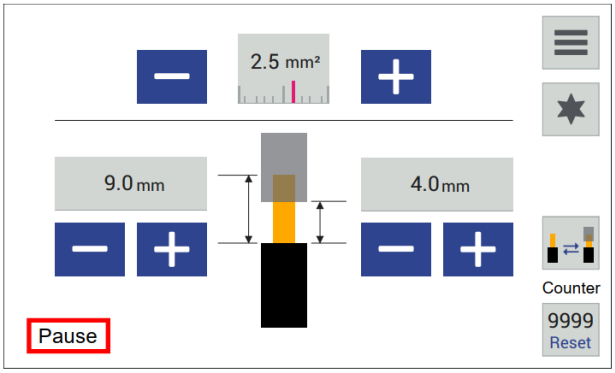
- Strands **up to 6mm²/AWG 10 can be** stripped with a pause/time delay **if required**.
- The pause can **be switched off** with < . (Off)
- The pause can be set to **short or long** with < and > . (Short/Long)
- Press ✕ and close the info window with Continue .

Submenu - Settings



- If the pause is activated, this is displayed at the bottom left of the main screen.

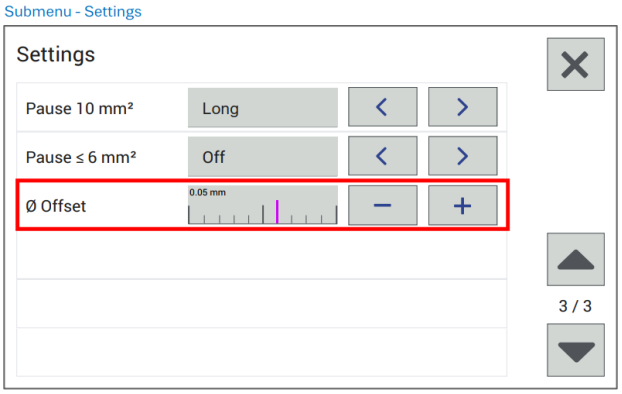
Home screen - partial strip

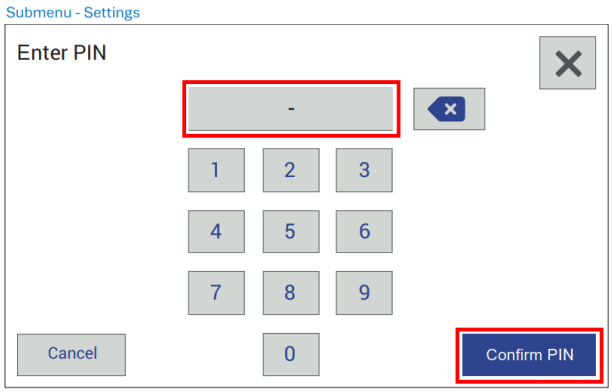


Settings offset (fine adjustment after blade change)

- When changing the blades, the cutting depth must be checked with a test cut.
  (See "Info on fine adjustment of conductor cross-section")
- If the cutting depth has changed, it can be fine-tuned for the entire appliance using [+] and [−].
- The existing favorites can therefore be used as usual.
- If [+] or [−] is pressed, a **PIN must be entered.**
- Confirm PIN with [Confirm PIN] and close window with [✕].

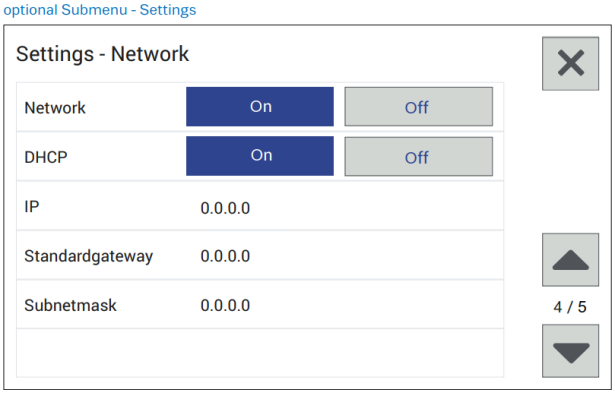
> **1 digit (line)** brings a change of **0.05 mm** in the incision diameter
>
> **Range: +- 0,25mm**



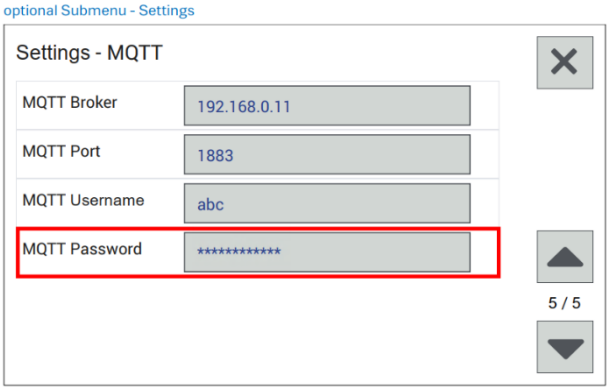


Only if the network option is activated

Netzwork – Settings – optional



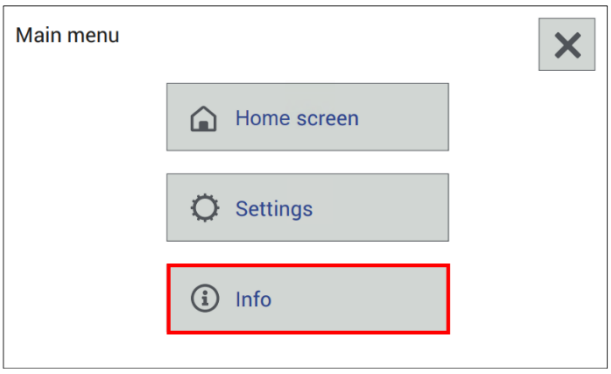
Enter/change password - optional



Info

- Open main menu with 
- Open info menu with 

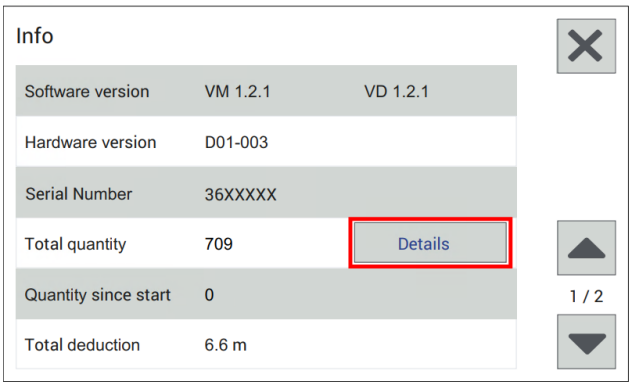
Main menu



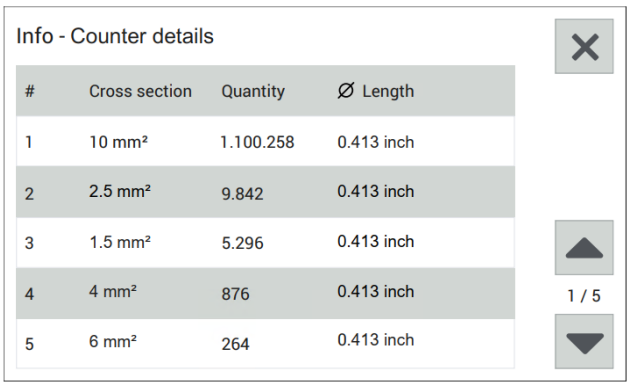
Retrieve counter readings

- The total number of stripping processes is displayed
- A list of the individual cross-sections can be found under Details

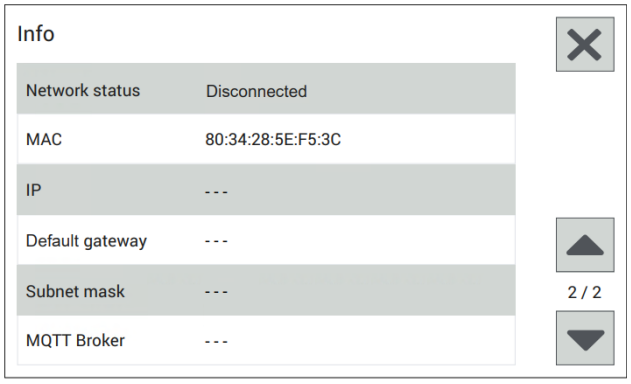
Submenu - Info



Submenu - Info



Submenu - Info

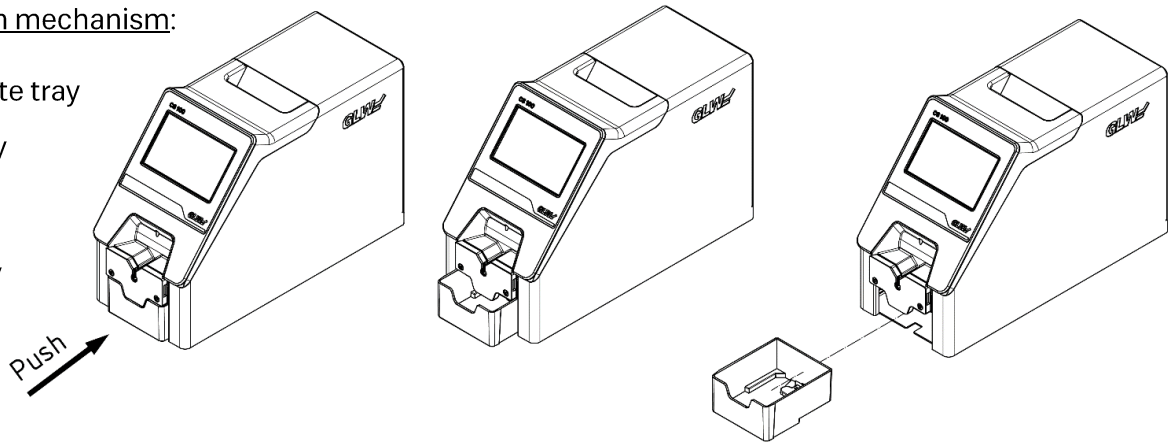


Removing/emptying the waste tray

To ensure trouble-free operation, we recommend emptying the waste tray regularly.

Push-to-open mechanism:

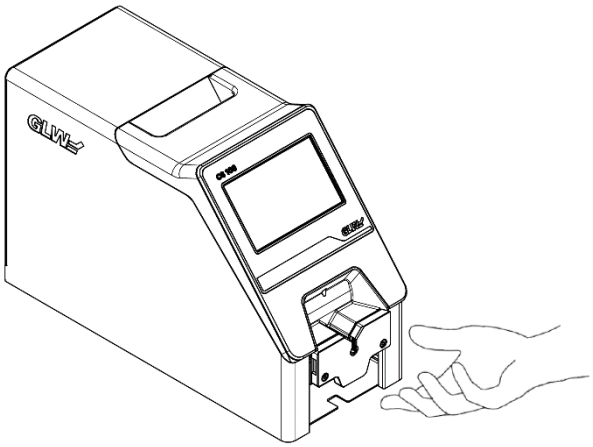
- Press waste tray
- Waste tray pops out
- Remove waste tray

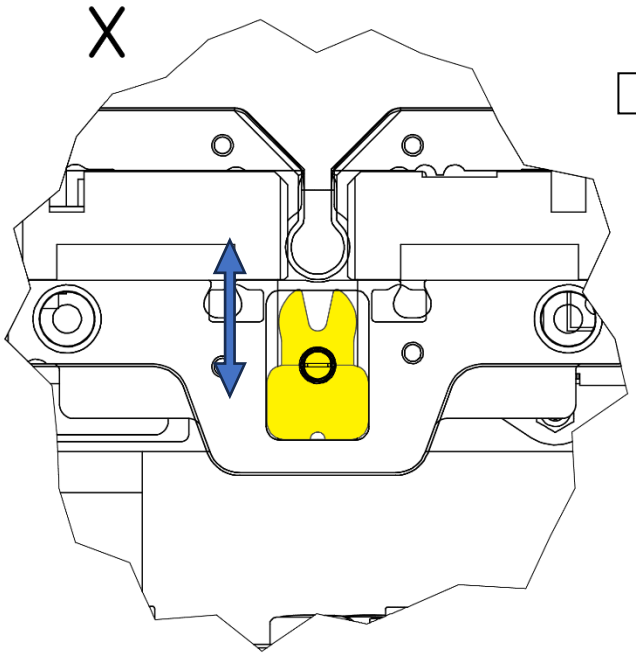


Cable centring aid

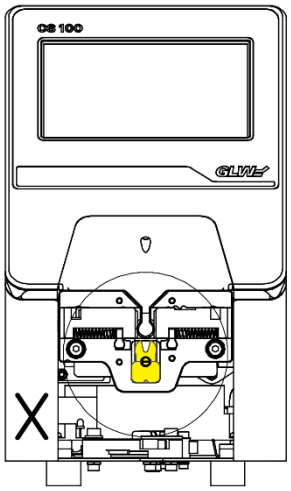
Facilitates the quick stripping of thin cables.

1. Remove the waste tray (see Removing/emptying the waste tray)
2. Reach in from below and push the cable centring aid upwards



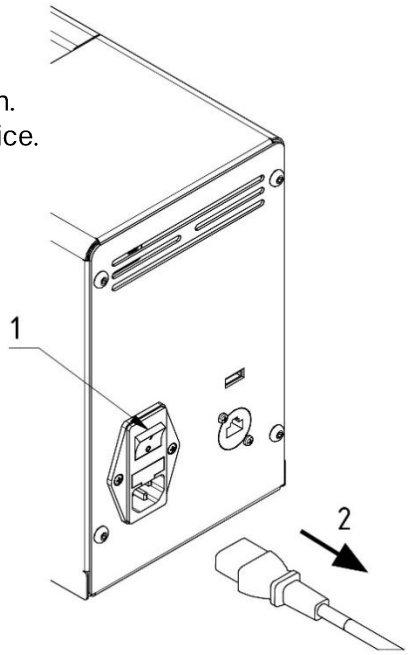


Simplified illustration: without mechanics, transparent guide plate



Decommissioning the device

1. Switch off the device at the mains switch.
2. Disconnect the mains plug from the device.

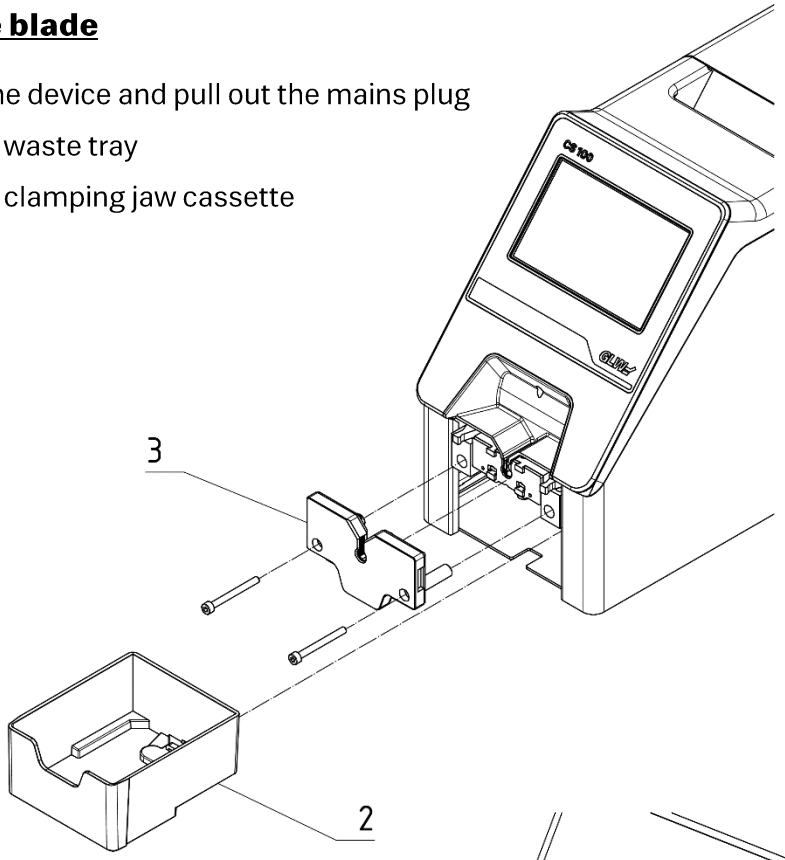


Maintenance and servicing

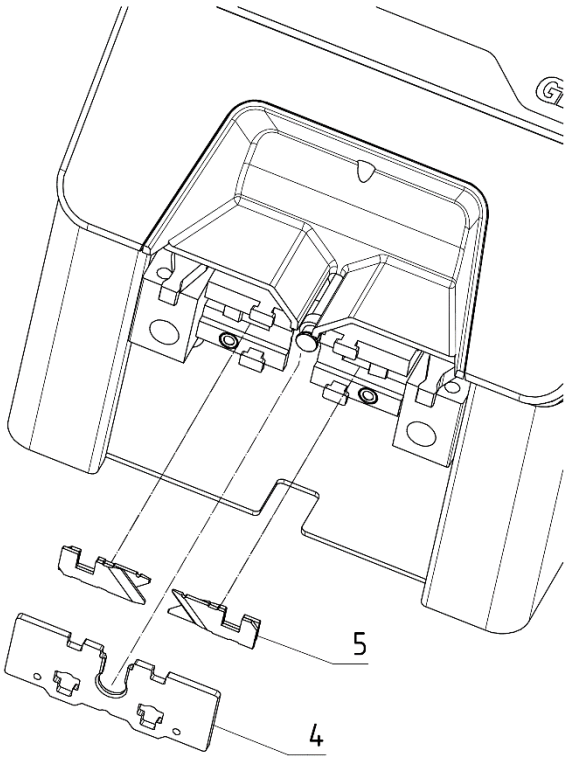
- The device must be disconnected from the power supply for cleaning.
- Only a dry, dust-free all-purpose cloth may be used to clean the outside of the device.

Changing the blade

1. Switch off the device and pull out the mains plug
2. Remove the waste tray
3. Remove the clamping jaw cassette



4. Slide the blade cover downwards and remove it
5. Replace the stripping blade

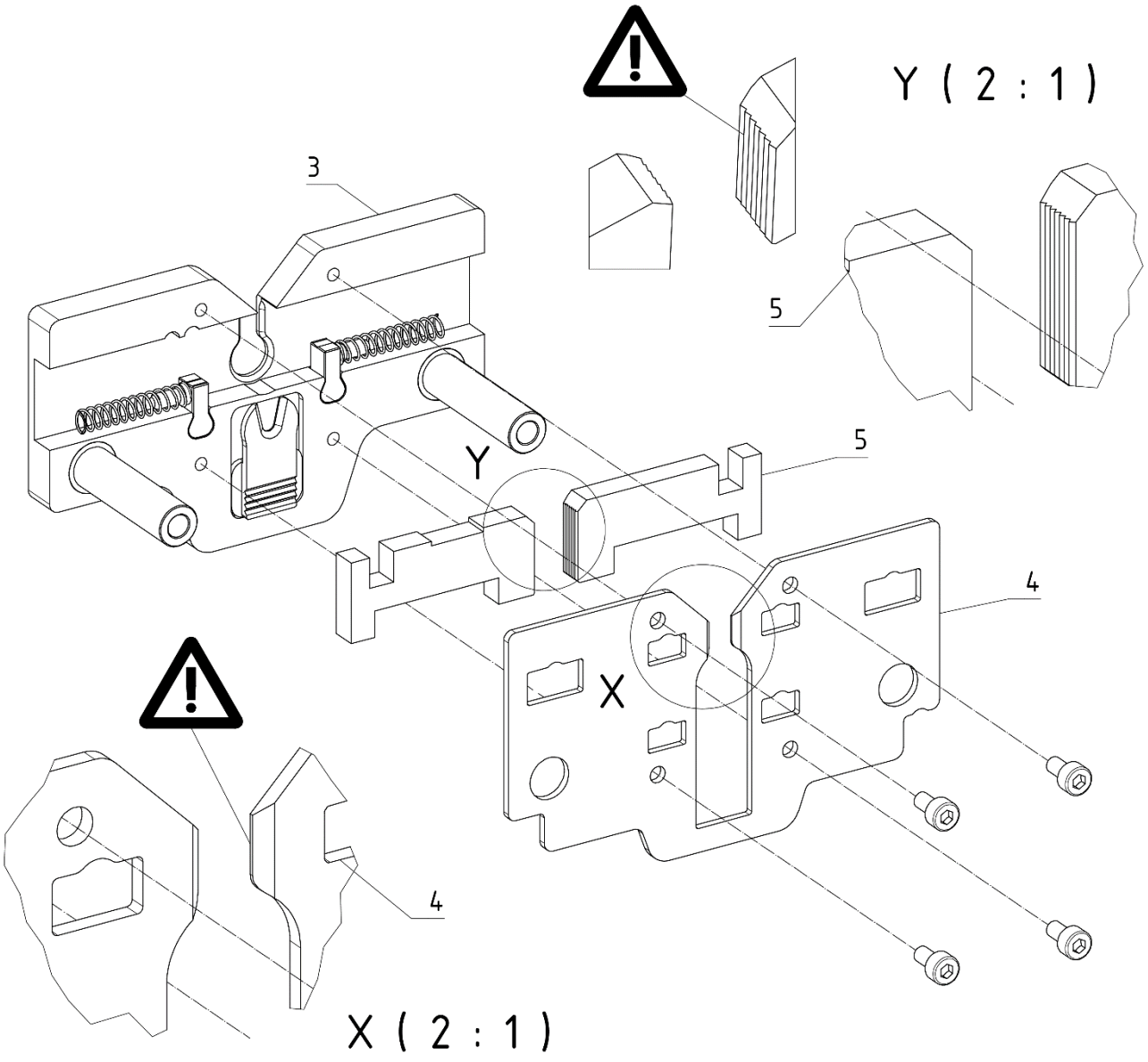


Changing the clamping jaws

If the clamping jaws are dirty, they can be cleaned.
A variety of clamping jaws for different cable types are also available as accessories.

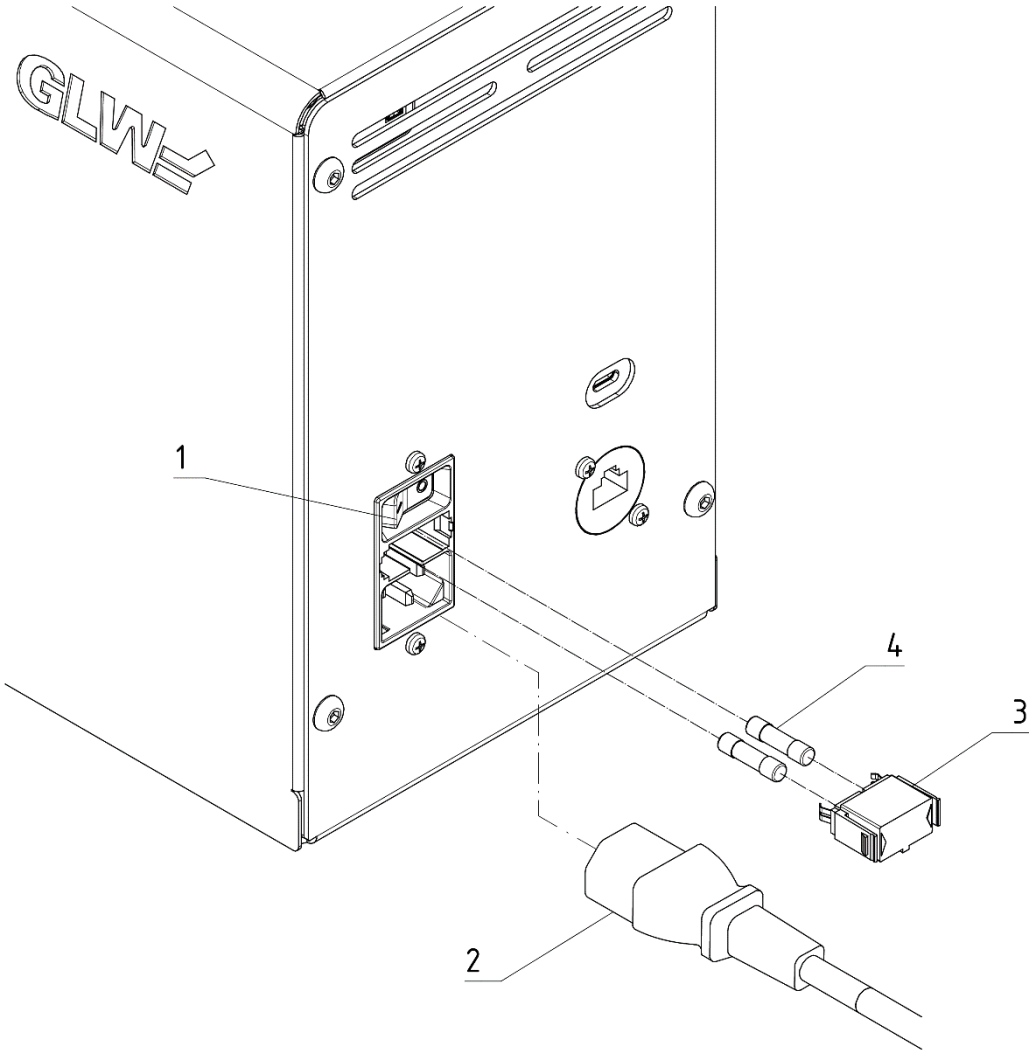
1. Switch off the device and pull out the mains plug.
2. Remove the waste tray
3. Remove the clamping jaw cassette
4. Remove the cover of the clamping jaw cassette
5. Replace the clamping jaws.

When assembling, ensure correct installation of the clamping jaws and cover!



Replacing fuses

1. Switch off the device at the mains switch
2. Pull out the mains plug
3. Pull out the fuse holder
4. Check mains fuses
5. Replace defective mains fuse (see chapter SPARE PARTS).



Malfunctions

Error code	Fault/message	Troubleshooting
	Cable slips through the clamping jaws during the stripping process	1. Clamping jaws are dirty and must be cleaned. 2. Clamping jaws are worn and need to be replaced. 3. The cable is unsuitable
	Blades do not cut properly	1. Check the settings on the display. 2. Blades are blunt and need to be replaced. 3. The cable is unsuitable.
	Blade no longer opens	1. **ATTENTION**: Switch off the device! 2. Carefully push the blades back with a flat object. The blades must snap back smoothly. Be careful not to press on the cutting edge. If the blades cannot be pushed back easily, the blades must be removed, as when changing blades. Remove remnants from the stripping area.
	No display	1. No mains connection - Check the mains connection and switch on the device. 2. Check the mains fuse and replace if necessary (see Replacing fuses).
	Waste tray missing	1. Insert the waste tray (see Removing/emptying the waste tray).
2, 3, 4, 5, 6, 9, 10	System error	1. Switch off the device 2. Wait until the display goes off and switch the device on again. 3. If the error occurs again, contact Service.
7	Sensor for start button responds as soon as it is switched on	1. **ATTENTION**: Remove and empty the waste tray. 2. Disconnect the device from the mains and carefully clean the start button with compressed air.

Technical appendix

Technical data

Power supply	100-240 VAC/50-60 Hz
Power consumption	160 VA
Working cross-section	0.08 - 10 mm² (AWG 28-8)
Outer diameter, maximum	6 mm
Stripping length	2 mm - 20 mm
Partial stripping length	1 mm - 20 mm
Feed-in length + stripping length	13mm + x
Stripping blade	V-blade, round blade + flat blade (optional)
Stripping time/cycle	0.3 s
Dimensions (L x W x H)	372 mm x 149 mm x 255 mm
Weight	9.5 kg

Type plate



EU Declaration of Conformity

Manufacturer:	GLW GmbH
Address:	Steinbeisstrasse 2, 88353 Kisslegg, Germany
Product group:	Electric wire stripper
Product description:	**CS 100**
Valid from SN:	3600001

The product described above conforms to the essential requirements of the following directive(s) and their amending directives

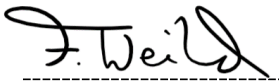
Machinery Directive	**2006/42/EC**
EMC Directive (Electromagnetic Compatibility)	**2014/30/EU**
Restriction of the use of certain hazardous substances	**2011/65/EU**

The following relevant standards were used to assess compliance:

EN ISO 13854:2019	**EN ISO 12100:2010**	**EN ISO 13857:2019**
EN ISO 13849-1:2023	**EN IEC 63000:2018**	**EN 55014-1:2021**
EN 55014-2:2021	**EN IEC 62061:2021**	**EN IEC 61000-6-2:2019**
EN IEC 61000-6-3:2021		

This declaration certifies conformity with the essential requirements of the said Directive(s), but does not constitute a guarantee of characteristics. The safety and installation instructions in the supplied product documentation must be observed.

Kisslegg, 16/04/2024



Felix Weiland
Steinbeisstr. 2, 88353 Kisslegg, Germany
Managing Director
Responsible for the technical documentation

UK Declaration of Conformity

Manufacturer:	GLW GmbH
Address:	Steinbeisstrasse 2, 88353 Kisslegg, Germany
Product group:	Electric wire stripper
Product description:	**CS 100**
Valid from SN:	3600001

The product described above complies with the essential requirements of the following directive(s) and their amending directives:

Machinery (Safety) Regulations 2008	**S.I. 2008/1567**
Regulation on electromagnetic compatibility 2016	**S.I. 2016/1091**
Ordinance on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment 2012	**S.I. 2012/3032**

The following relevant standards were used to assess compliance:

EN ISO 13854:2019	**EN ISO 12100:2010**	**EN ISO 13857:2019**
EN ISO 13849-1:2023	**EN IEC 63000:2018**	**EN 55014-1:2021**
EN 55014-2:2021	**EN IEC 62061:2021**	**EN IEC 61000-6-2:2019**
EN IEC 61000-6-3:2021		

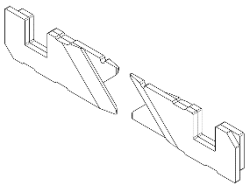
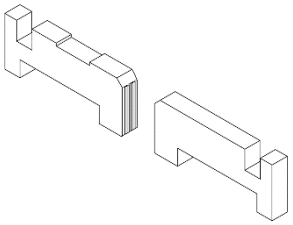
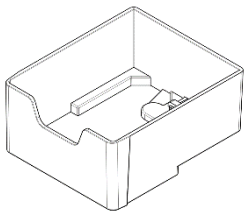
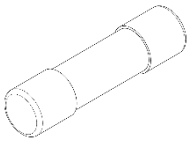
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Kisslegg, 16/04/2024

F. Weiland

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Steinbeisstr. 2, 88353 Kisslegg, Germany
Managing Director
Responsible for the technical documentation

Spare parts

Part	Article no.
Stripping blade standard (V-shape) **Flat blade** (for ribbon cable up to 7.6 mm) **Forming blade** (for cables that are difficult to process) 	004966 006906 On request
Standard clamping jaws **Soft jaws** (with rounded teeth) **Clamping jaws Z14** (for pressure-sensitive insulation) **Clamping jaws Z4** (for hard insulation) **Diamond clamping jaws** (for pressure-sensitive and hard insulation) 	005117 007631 007857 008206 007677
Waste tray 	013751
Mains fuse 2A / 250V slow blow G-fuse 5 x 20 mm 	008965

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