



## Operation of the Cutting Machine CUTFOX 10

Original operating instructions



# Original operating instructions

## Operation of the Cutting Machine CUTFOX 10

2015-05-05

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Designation: UM EN CUTFOX 10

Revision: 03

Order No.: —

This user manual is valid for:

Designation	From this Serial No. onwards	Order No.
CUTFOX 10	231000	1206829

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## Please observe the following notes

### User group of this manual

The use of products described in this manual is oriented exclusively to qualified electricians or persons instructed by them, who are familiar with applicable standards and other regulations regarding electrical engineering and, in particular, the relevant safety concepts.

### Explanation of symbols used and signal words



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety measures that follow this symbol to avoid possible injury or death.

There are three different categories of personal injury that are indicated with a signal word.

**DANGER** This indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING** This indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION** This indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



This symbol together with the signal word **NOTE** and the accompanying text alert the reader to a situation which may cause damage or malfunction to the device, hardware/software, or surrounding property.



This symbol and the accompanying text provide the reader with additional information or refer to detailed sources of information.

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## Table of contents

1	Basic information .....	7
	1.1 Intended use .....	7
	1.2 For your safety .....	7
2	Operating the CUTFOX 10 .....	8
	2.1 Scope of supply and overview .....	8
	2.2 Setting up the CUTFOX 10 .....	9
	2.3 Connecting and inserting the cable .....	10
	2.4 Automatic cable cutting .....	11
	2.5 Planning cutting jobs with a PC .....	12
	2.6 Manual cable cutting .....	14
	2.7 Exiting from cutting .....	14
3	Troubleshooting .....	15
	3.1 Error messages on the Display .....	15
	3.2 The length cut is wrong .....	16
	3.3 Adjusting the cable conveyor speed .....	16
	3.4 CUTFOX 10 will not switch on .....	17
	3.5 Adjusting or replacing the rollers .....	18
	3.6 Replacing the cutters .....	19
A	Appendix .....	20
	A 1 Ordering data .....	20
	A 2 Technical data .....	20
	A 3 Declaration of conformity .....	21

# 1 Basic information

## 1.1 Intended use

The CUTFOX 10 cutting machine cuts cables, litz wires, shrink sleeves and similar profiles and is particularly suitable for series production.

The CUTFOX 10 is exclusively intended for cutting cables, litz wires, shrink sleeves and similar profiles up to 8 mm.

Please note that only finely stranded copper litz wires up to 10 mm<sup>2</sup> and solid copper cables up to a maximum of 2.5 mm<sup>2</sup> may be used. Steel wires or similar may never be used, as these would destroy the cutter.

Willful modifications to the CUTFOX 10 are prohibited for safety reasons.

The required length and number of wires is entered either directly in the CUTFOX 10 with the keypad or can be documented on the PC with the supplied software and loaded to the CUTFOX 10.



**WARNING:** The CUTFOX 10 may only be used

- as intended and
- when in perfect working order regarding safe functioning.



**WARNING:** All persons responsible for commissioning, operating and maintenance of the CUTFOX 10 must be appropriately qualified and have read this user manual. In particular, they must be able to recognize dangers.



**WARNING: Danger of cutting and crushing**

Never stick your finger into the outlet slot. The outlet slot may not be manipulated.



**NOTE:** Only use original replacement parts from Phoenix Contact.

## 1.2 For your safety



**WARNING:** The front door is installed for the safety of the operator. It is prohibited in all circumstances to modify, remove or by means of alterations bypass it.

The CUTFOX 10 may be operated only when the front door is closed.

Disconnect the mains plug before beginning maintenance work.

Make sure that there are no foreign objects inside the housing.

## 2 Operating the CUTFOX 10

### 2.1 Scope of supply and overview

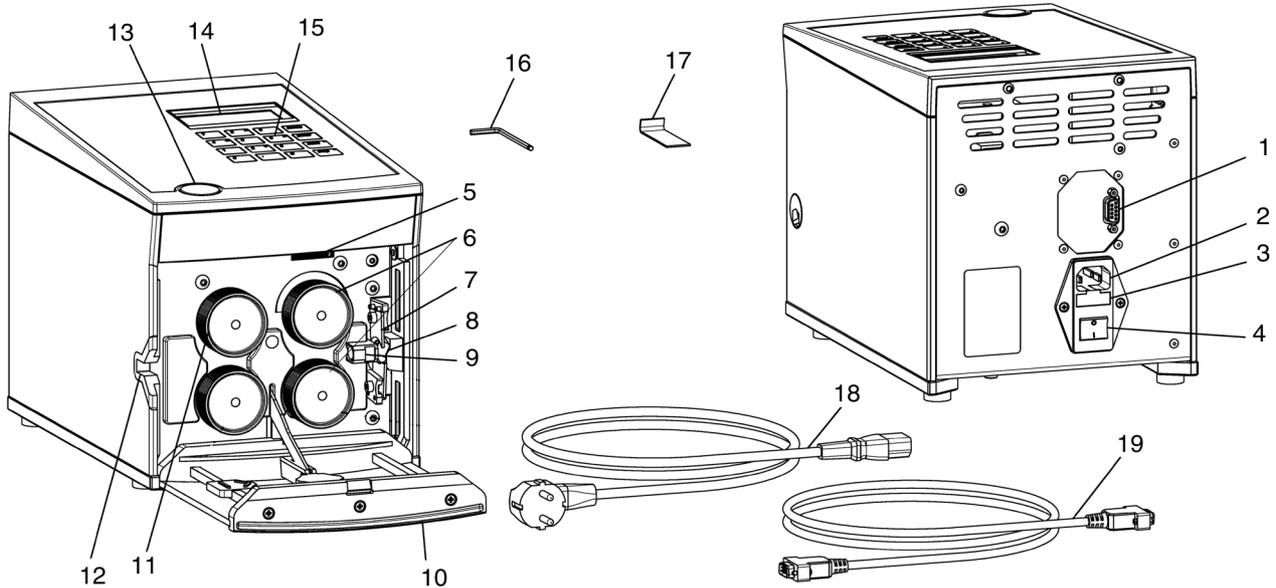


Figure 2-1 Scope of delivery and overview of the operating components

- |    |                  |    |                                   |
|----|------------------|----|-----------------------------------|
| 1  | RS-232 interface | 11 | Metering roller                   |
| 2  | Mains connection | 12 | Insertion slot                    |
| 3  | Mains fuses      | 13 | Door opener                       |
| 4  | Mains switch     | 14 | Display                           |
| 5  | Adjusting screw  | 15 | Key pad                           |
| 6  | Drive rolls      | 16 | Allen key, size 3                 |
| 7  | Cutter           | 17 | Removal hook                      |
| 8  | Outlet slot      | 18 | Power cable                       |
| 9  | Cable routing    | 19 | RS-232 cable                      |
| 10 | Front door       |    | Not pictured: CD-ROM, user manual |

## 2.2 Setting up the CUTFOX 10



**NOTE:** The device must be set up on a level and horizontal surface.



**NOTE: During operation and storage, avoid the following:**

- humid or dusty places and
- locations exposed to high levels of heat, direct sunlight or low temperatures (operating range: 15°C ... 35°C).



**NOTE:** Set up the CUTFOX 10 so that it cannot slip from its work surface. Use a non-slip mat or fix the CUTFOX 10 in place, as depicted in Fig. 9 (right).

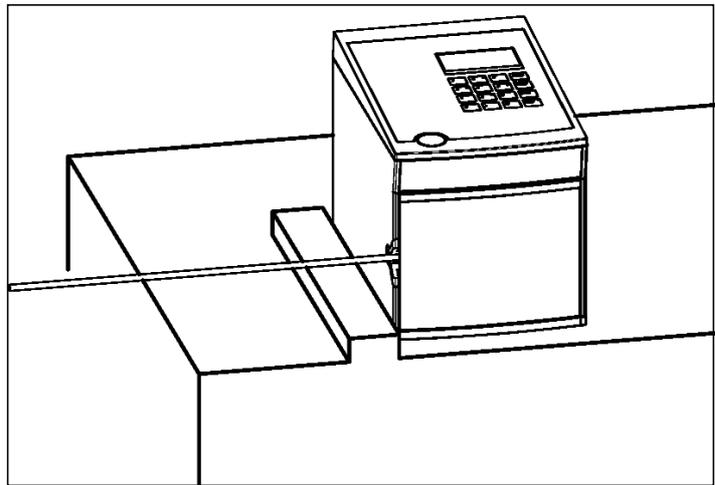
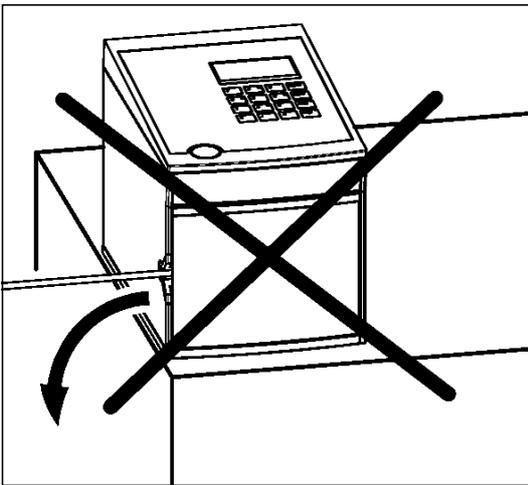


Figure 2-2 Example for fixing the CUTFOX 10



**NOTE:** Do not spill liquids on the CUTFOX 10.

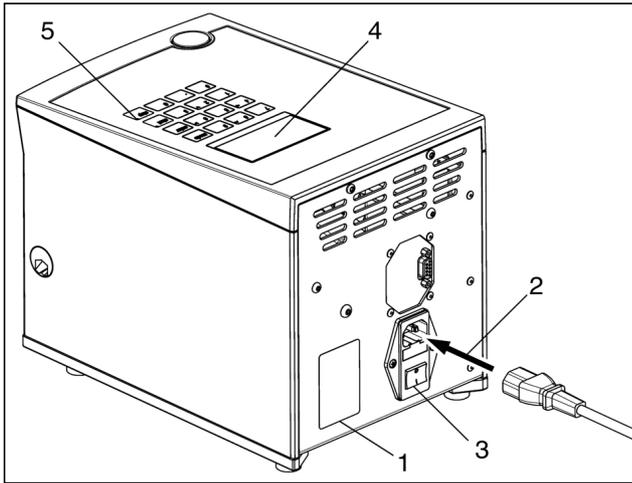
Do not expose the CUTFOX 10 to strong vibrations or shocks.



**NOTE:** If the machine is moved from a cold location to a warm location, condensation can form.

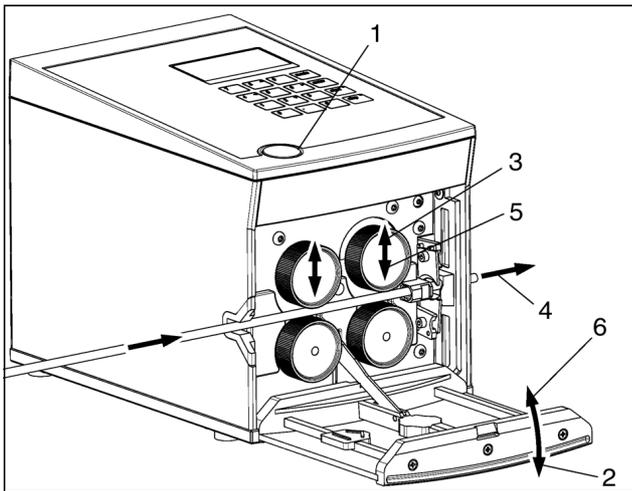
Before using the CUTFOX 10, open the front door and allow condensation to evaporate.

## 2.3 Connecting and inserting the cable



### Connecting to mains

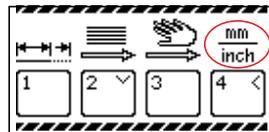
- Connect the power cable (2).
  - Switch on the CUTFOX 10 with the mains switch (3) (press I).
- The display (4) and the red "stop" LED (5) light up.



### Inserting the cable

- Press the door opener (1) and fold down the front door (2).  
The rollers are raised (3).
- Insert the cable between the rollers and pull it through the cable routing and out through the outlet slot (4).
- Fold up the front door (6).  
The rollers clamp the cable firmly (5).

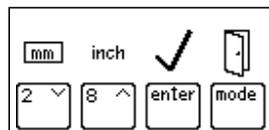
If you cut very soft or hard material, it is advisable to change the clamping pressure (see page 18).



### Adjusting the measuring unit between millimeter and inch

The default is millimeter.

- Press and hold the "mode" button for approx. six seconds, until this display appears.
- Press the "4" key for mm/inch adjustment.



The measuring unit currently in use is framed (here, it is mm).

- The "2" key sets the measuring unit to mm.
- The "8" key sets the measuring unit to inch.
- Press the "enter" key to save the value and return to mode selection.

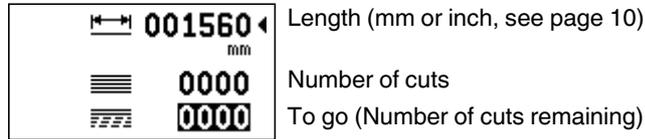
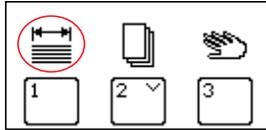
With the "mode" button, you can return to mode selection without saving.

## 2.4 Automatic cable cutting



The CUTFOX 10 cuts the amount entered automatically to a specified length. This is the default mode and is active when the machine is switched on.

- Switch on the CUTFOX 10.
- Insert the cable as described (see page 10).
- To switch into this mode, press the "mode" button and then the "1" key.



### Entering the parameters

- Enter the length and number of cuts with the keys "0" to "9".
- You can overwrite the values or delete them with the "C" button.
- For entries in inches, decimal places can be used.
- Switch to the next line with the "enter" key.

### Cutting the cable

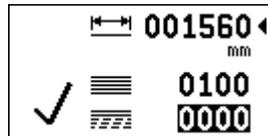
- Press the "start" button. The green LED lights up. The cable is then cut automatically.

### Pausing or stopping the cable

- Cutting can be interrupted. To do this, press the "stop" button. The red "stop" LED flashes.
- Press the "start" button to continue cutting.
- If you would like to stop cutting, press and hold the "stop" button for at least two seconds. The To go display is set to "0000".

### Cutting finished

When the cutting is completed, the To go display reads "0000" and a checkmark is shown.



The length and number can be re-entered.

### Changing modes

- Press the "mode" button to switch back to mode selection.

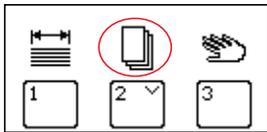
## 2.5 Planning cutting jobs with a PC



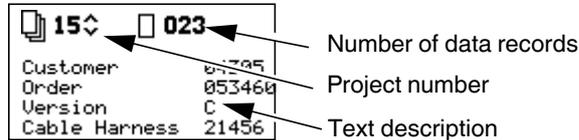
Data records with cutting jobs can be created at a PC. The data records contain information about the desired number and length as well as a description of the cable. These data records are then processed sequentially from the CUTFOX 10.

You can store and process up to 20 projects (lists) with a maximum of 100 data records (cutting jobs).

### Connecting the CUTFOX 10 to a PC



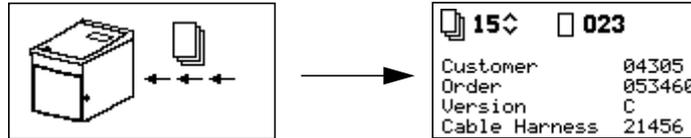
- Switch off the CUTFOX 10 and the PC before connecting.
- Connect the CUTFOX 10 to a PC with the RS-232 cable supplied. The RS-232 interface is on the back side of the CUTFOX 10.
- Switch the CUTFOX 10 and the PC back on.
- Create the cutting jobs at the PC with the help of the CUTSOFT software supplied.
- Switch into the appropriate mode. Press the "mode" button and then the "2" key.



Number of data records  
Project number  
Text description

### Loading a project to the CUTFOX 10

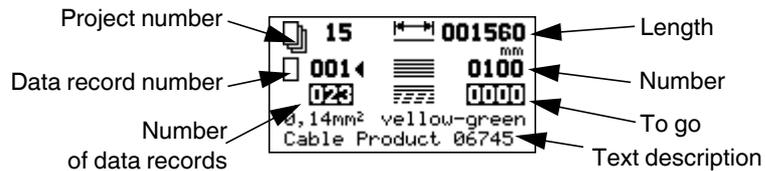
- Load the desired project to the CUTFOX 10 with help of the software. While the project is being loaded to the CUTFOX 10, a display appears on the screen. When it is finished loading, a display for project selection appears.



### Project selection

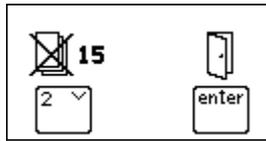
- Select the project number. The "2" key lowers this number. The "8" key raises this number.
- Press the "enter" key to confirm the selection.

Then the settings for the selected project are displayed.



### Deleting a project

- If you would like to delete the current project, press and hold the "stop" button for at least two seconds. This display appears.



- To delete the project and return to project selection, press the "2" key.
- To return to project selection without deleting, press the "enter" key.

### Changing settings



The values for length and number shown in project selection can be edited. The changes remain until the project is switched or closed.

Permanent changes have to be made at the PC and then loaded to the CUTFOX 10.

If, for example, a data record has been created where more cable is cut than actually required, then the number can be decreased here. But the next time this data record is accessed, the higher number, which is saved, will be used.

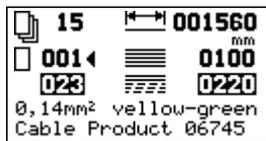
- Select a data record with the keys "0" to "9".
- You can overwrite the values or delete them with the "C" button.
- Switch to the next line with the "enter" key.
- Enter the length and number of cuts with the keys "0" to "9".
- For entries in inches, decimal places can be used.

### Cutting the cable

- Insert the cable as described (see page 10).
- Press the "start" button. The green LED lights up.  
The CUTFOX 10 then processes all of the project's data records automatically.

### Pausing or stopping the cable

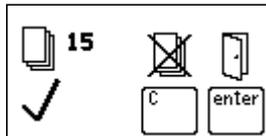
- Cutting can be interrupted. To do this, press the "stop" button. The red "stop" LED flashes and this display appears.



- Press the "start" button to continue cutting.
- To stop cutting, press the "mode" button to switch to another data record or close the project.

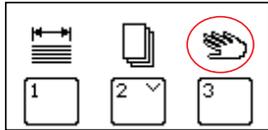
### End of the project

The cutting is finished when this display appears.



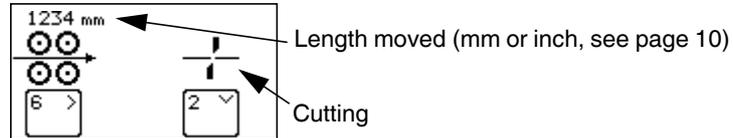
- To return to project selection, press the "enter" key.
- To delete the completed project and return to project selection, press the "C" key.

## 2.6 Manual cable cutting



The cable can be moved and cut using button commands.

- Insert the cable as described (see page 10).
- Switch on the CUTFOX 10.
- To switch into this mode, press the "mode" button and then the "3" key.



### Cutting cable

- Press and hold the "6" key until the cable has been moved the desired length.
- Press the "2" key to cut the cable.

### Deleting the length

- Press the "C" key to delete the set length.

### Changing modes

- Press the "mode" button to switch back to mode selection.

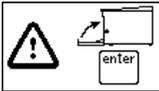
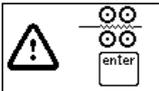
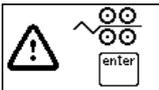
## 2.7 Exiting from cutting

- When no more cable is to be cut, switch off the mains switch (press 0).
- Open the front door and remove the cable.

# 3 Troubleshooting

## 3.1 Error messages on the Display

Table 3-1 Error messages and remedies

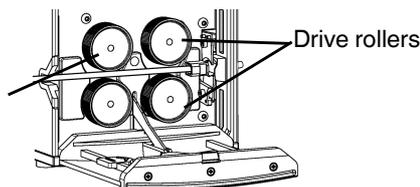
Display	Cause	Remedy
	Front door is open.	<ul style="list-style-type: none"> <li>Close front door.</li> </ul>
 <p>The error is triggered when the motor receives current but the metering rollers are not turning.</p>	The metering roller does not detect a cable.	<ul style="list-style-type: none"> <li>Insert a new cable.</li> </ul>
	While conveying the cable, it jammed or made a knot. The drive rollers slip.	<ul style="list-style-type: none"> <li>Check if there is a jam or knot.</li> </ul>
	The force required to unwind the cable is too large. The drive rollers slip.	<ul style="list-style-type: none"> <li>Check if the force required to unwind the cable is too large.</li> </ul>
	The rollers do not convey the cable properly. The drive rollers slip.	<ul style="list-style-type: none"> <li>Adjust the clamping pressure of the drive rollers (see page 18).</li> <li>Replace the drive rollers (see page 18).</li> <li>Use drive rollers that suited to the cable (see page 20).</li> </ul>
 <p>The error is triggered when the motor current increases too fast.</p>	While conveying the cable, it jammed or made a knot. The drive rollers are locked or are about to lock.	<ul style="list-style-type: none"> <li>Check if there is a jam or knot.</li> </ul>
	The force required to unwind the cable is too large. The drive rollers are locked or are about to lock.	<ul style="list-style-type: none"> <li>Check if the force required to unwind the cable is too large.</li> </ul>
	Maximum cutting force exceeded	<ul style="list-style-type: none"> <li>Check if the cable cross section is too large or if the cable is for some other reason not suitable.</li> <li>Switch the cutter (see page 19).</li> </ul>



Press the "enter" key to delete the error message.

### Metering and drive rollers

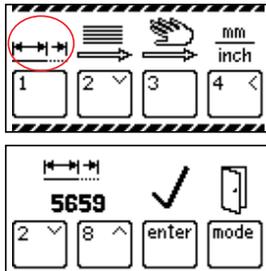
Metering roller



### 3.2 The length cut is wrong

- Check if the drive or metering rollers are worn and replace them.
- Adjust the clamping pressure of the drive rollers (see page 18).
- If the insulation of the cable is very hard, the metering roller can be exchanged with a PU roller or a steel roller (see page 18).

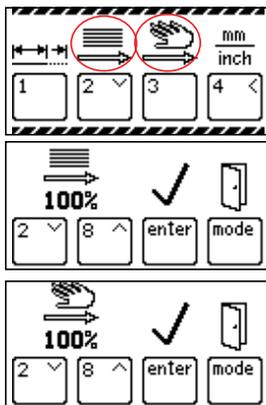
If the actual length cut is not consistent with the length set, the CUTFOX 10 has to be readjusted.



- Press and hold the "mode" button for approx. six seconds until this display appears.
- Press the "1" key to adjust the length.  
A value for length adjustment is displayed (here: 5659). This value indicates the number of pulses per meter.
- The "2" key lowers this value and with it the length conveyed.  
The "8" key raises this value and with it the length conveyed.
- Press the "enter" key to save the value and return to mode selection.  
With the "mode" button, you can return to mode selection without saving.

### 3.3 Adjusting the cable conveyor speed

The speed with which the cable is moved can be adjusted. This speed can be adjusted separately for automatic and manual modes.

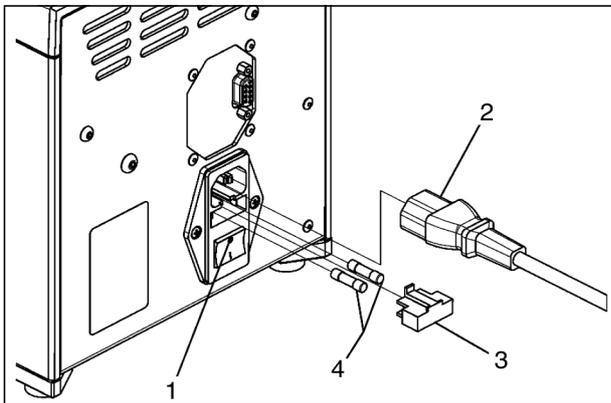


- Press and hold the "mode" button for approx. six seconds until this display appears.
- Press the "2" key to change the speed in automatic mode and the "3" key for manual mode.
- The speed is preset to 100% and can be lowered.  
The "2" key lowers this value and thus the speed.  
The "8" key raises this value and thus the speed.
- Press the "enter" key to save the value and return to mode selection.  
With the "mode" button, you can return to mode selection without saving.

### 3.4 CUTFOX 10 will not switch on

#### No mains connection

- Check whether the mains plug is connected to the CUTFOX 10 mains connection and the shock-proof plug is connected to the mains socket.
- Make sure that the power supply at the mains socket is OK.



#### Mains fuse blown



#### WARNING: Risk of injury

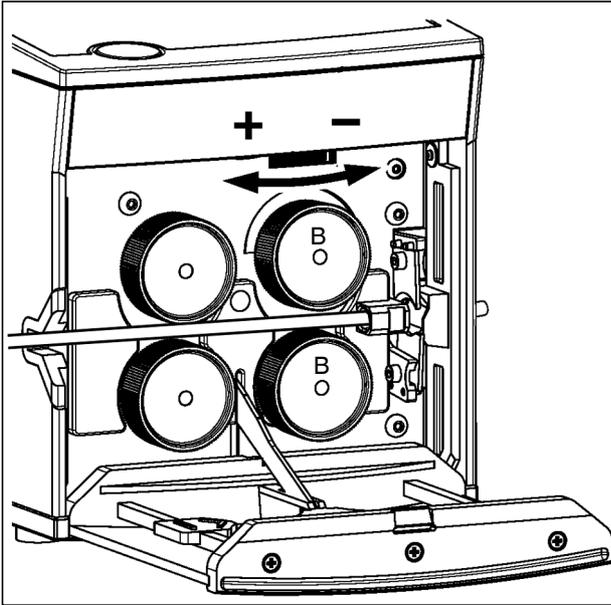
Switch off the CUTFOX 10 (1) and disconnect the mains plug (2).

- Remove the fuse holder (3).
- Check the mains fuses (4).
- Replace the blown mains fuse (for ordering data see page 20).
- Push the fuse holder back in



**NOTE:** The fuse holder should snap into place.

### 3.5 Adjusting or replacing the rollers

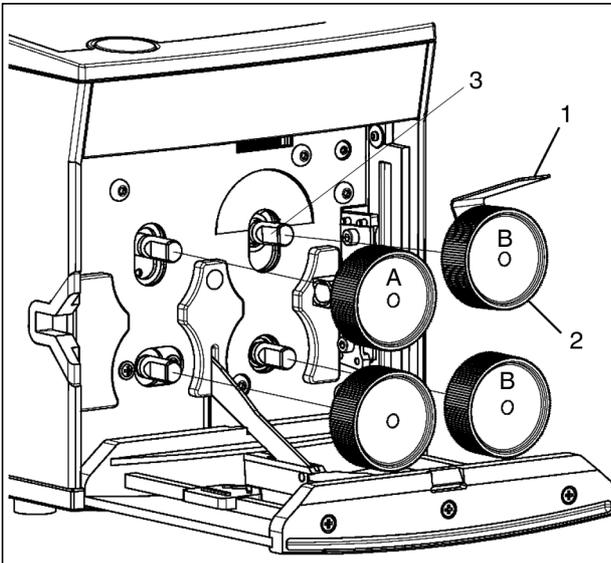


#### Adjusting the clamping pressure of the drive rollers (B)

The clamping pressure must suit the cable. For standard cable, it does not need to be changed.

The following generally applies:

- Hard and thick material: more pressure
  - Soft and thin material: less pressure
- Press the door opener and fold down the front door.
  - Set the clamping pressure with the adjusting screw.  
Rotate left → more pressure  
Rotate right → less pressure



#### Replacing drive or metering rollers



#### **WARNING: Risk of injury**

Switch off the CUTFOX 10 and disconnect the mains plug.

- Press the door opener and fold down the front door.
- Insert the removal hook (1) supplied behind the rollers (2) and push off the rollers.

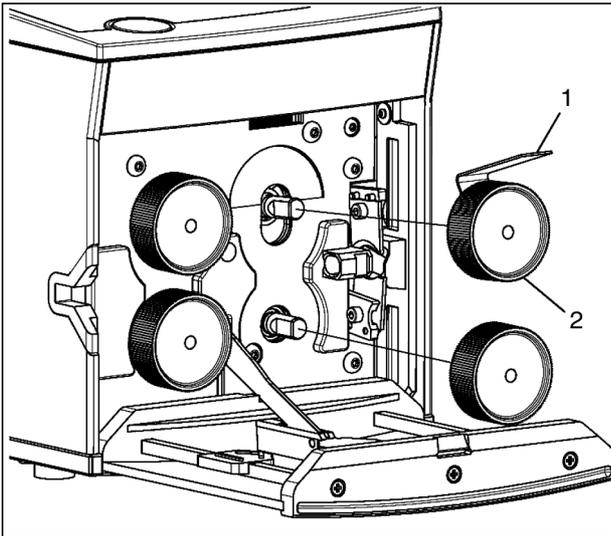


#### **NOTE: Replace the drive rollers (B) in pairs only.**

Pay attention to the flat guiding surface (3) when mounting.

- Replace the rollers (for ordering data see page 20).
- Fold up the front door.
- Plug in the mains plug again.

### 3.6 Replacing the cutters



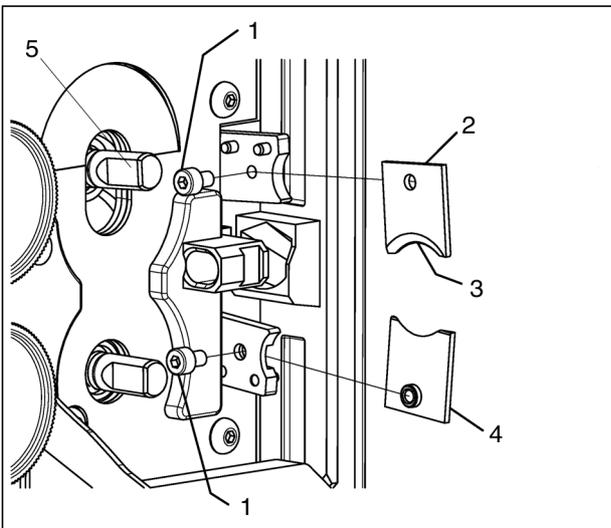
#### Removing the drive rollers



**WARNING: Risk of injury**

Switch off the CUTFOX 10 and disconnect the mains plug.

- Press the door opener and fold down the front door.
- Insert the removal hook (1) supplied behind the rollers (2) and push off the rollers.



#### Removing the cutters

- Loosen the screws (1) with the Allen key supplied.
- Remove both cutters (2 and 4).

#### Mounting the cutters



**NOTE:** Always replace both cutters.

Pay attention when mounting that the slanted cutting surfaces (3) face outwards.

- Place the lower blade (4) with the threaded insert onto the holder from the right.
- Place the upper blade (2) onto the holder from the left.
- Tighten the screws with the Allen key.



**NOTE:** Pay attention to the position of the flat guide surfaces on the shafts (5) when mounting the rollers.

- Remount the drive rollers.
- Fold up the front door.
- Plug in the mains plug again.

# A Appendix

## A 1 Ordering data

### Cutting machine

Description	Designation	Order No.	Pcs./Pkt.
Cutting machine	CUTFOX 10	1206829	1

### Replacement parts

Description	Designation	Order No.	Pcs./Pkt.
Drive / metering rollers 2 replacement rolls for CUTFOX 10	CF-10 WHEEL SET	1207271	1
2 replacement rolls for CUTFOX 10, with PU tread, for sensitive cables/conductors and their insulation (for hard insulation to some extent)	CF-10 WHEEL PU	1200098	1
2 replacement rolls for CUTFOX 10, with hardened, finely knurled steel tread, for very hard insulation and materials	CF-10 WHEEL STEEL	1200099	1
Cutter	CF-10 CUTTER KNIFE SET	1207284	1 set
Mains fuse T 2A/250V (20 x 5 mm)	-	On request	1 pair
Removal hook	CF-10 ABZH	1207297	1

### Accessories

Description	Designation	Order No.	Pcs./Pkt.
Cable unwinder	CUTFOX 10 C-UN	1208393	1

## A 2 Technical data

Technical data	
Mains connection	90 V ... 264 V / 47 Hz ... 63 Hz
Power consumption	150 VA
Cutting efficiency (flexible/solid)	0.08 mm <sup>2</sup> ... 10 mm <sup>2</sup> /0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Maximum throughput	8 mm
Cross section setting	Automatically
Number of cuts	1 ... 9999 Pcs.
Length of cuts	2 mm ... 999999 mm/0.1 in. ... 99999.9 in.
Feed rate	max. 0.5 m/s
Interface	RS-232
Dimensions (W x H x D)	194 mm x 228 mm x 301 mm
Weight	10 kg

# A 3 Declaration of conformity



1206829.CE.00

**EG-Konformitätserklärung  
EC-Declaration of Conformity**

Hersteller / Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**  
 Anschrift / Address: **Flachsmarktstraße 8, D-32825 Blomberg, Germany**

Produktbezeichnung / Product description: CUTFOX 10  
(Artikelbezeichnung / Article description, Artikel-Nr. / Article no.)  
1206829

Das vorstehend bezeichnete Produkt stimmt mit den wesentlichen Anforderungen der nachfolgenden Richtlinie(n) und deren Änderungsrichtlinien überein / The above mentioned product is in line with the essential requirements of the below directive(s) and their modification directive(s):

<b>2004/108/EC</b>	<b>EMV-Richtlinie (Elektromagnetische Verträglichkeit)</b> <i>Electromagnetic Compatibility Directive (EMC)</i>
<b>2006/42/EC</b>	<b>Maschinenrichtlinie</b> <i>Machinery Directive</i>

Für die Beurteilung der Übereinstimmung wurden folgende einschlägige Normen herangezogen:  
 For evaluation of the conformity following relevant standards were consulted:

EN ISO 12100:2010	EN ISO 13857:2008	EN 349:1993/A1:2008
EN 60204-1:2006	EN 61000-6-2:2005	EN 61000-6-3:2007/A1:2011

Weitere Informationen (z. B. Dokumente, Prüfberichte, Einschränkungen, etc.) zur Konformitätsbewertung:  
 Additional information (for example documents, test reports, restrictions etc.) of the conformity assessment:

Zertifikate einer benannten Stelle / Certificates by a notified body:  
 Anschrift / Address: \_\_\_\_\_  
 Referenz / Reference: \_\_\_\_\_  
 Anschrift / Address: \_\_\_\_\_  
 Referenz / Reference: \_\_\_\_\_

Die letzten beiden Ziffern des Jahres in dem die CE-Kennzeichnung angebracht wurde:  
 The last two figures of the year in which the CE marking was applied: \_\_\_\_\_  
(nur einzutragen, bei der Niederspannungsrichtlinie / only to be entered on the low voltage directive)

Diese Erklärung gilt auch für die im Anhang aufgelisteten Produkte, (wenn angekreuzt)  
This declaration also applies for the products listed in the annex. (if marked with a cross)

Diese Erklärung bescheinigt die Übereinstimmung mit den wesentlichen Anforderungen der genannten Richtlinie(n), enthält jedoch keine Zusicherung von Eigenschaften. Die Sicherheits- und Einbauhinweise der mitgelieferten Produktdokumentation sind zu beachten.  
 This declaration certifies the conformity with the essential requirements of the indicated directive(s), it does not, however, covenant any characteristics. The instructions for safety and installation of the enclosed product documentation have to be observed.

Blomberg, 2013-04-19

 Alessandro Alberani Business Unit Industrial Cabinet Connectivity Head of Development & Quality Laboratory <small>Angeordnetem / contact person</small>	 Heiko Reibke Business Unit Industrial Cabinet Connectivity Director, Head of Development <small>Zeichnungsberechtigter / authorized signatory</small>
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 1206829.CE.00.doc

Formularversion / Date of form establishment: 2013-02-04  
 Formularsteller / Form estimator: Corporate Technology  
 Blatt / Page 1 von / of 2



1206829.CE.00

**Anhang zur EG-Konformitätserklärung  
Annex on EC Declaration of Conformity  
vom / dated 2013-04-19**

Produktbezeichnung / Product description: CUTFOX 10  
(Artikelbezeichnung / Article description, Artikel-Nr. / Article no.)  
1206829

Die Konformität mit den wesentlichen Anforderungen der Richtlinie(n) wird auch für folgende Produkte bescheinigt:  
 The conformity with the essential requirements of the directive(s) is also certified by the declaration for following products:

Artikel-Nr. / Article no.	Artikelbezeichnung / Article description
1207543	CUTFOX 10 BASIC

1206829.CE.00.doc

Blatt / Page 2 von / of 2

PHOENIX CONTACT GmbH & Co. KG, Flachsmarktstraße 8, D-32825 Blomberg, Germany

CUTFOX 10                    1206829  
 CUTFOX 10 BASIC        1207543

The above-mentioned products are in conformity with essential requirements of the following directives and their amending directives.

2004/108/EC            EMC Directive (Electromagnetic Compatibility)  
 2006/42/EC            Machinery Directive

The following applicable standards were consulted for evaluating the conformity:

EN ISO 12100-1:2010	EN ISO 13857:2008	EN 349:1993/A1:2008
EN 60204-1:2006	EN 61000-6-2:2005	EN 61000-6-3:2007/A1:2011

