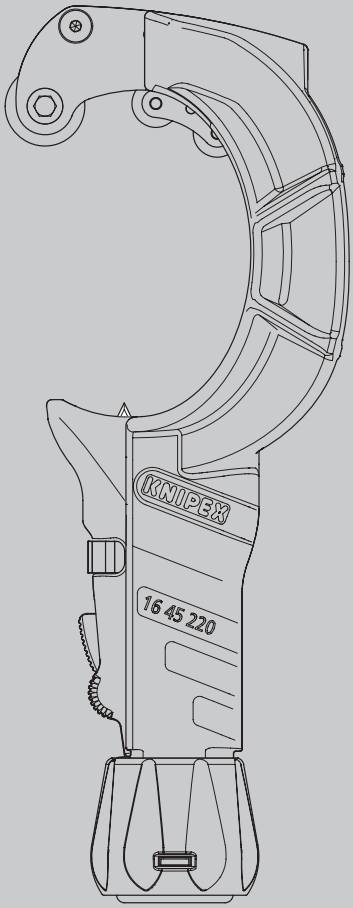
KNIPEX Quality – Made in Germany

Operating instructions

16 45 220



EN **STX60 Stripping Tool**
for stripping various insulation materials,
cable diameter 30 – 60 mm

CONTENTS

1 General

1.1 Notes on operating instructions

These operating instructions are designed to enable you to use your tool safely and efficiently.
The tool may only be used if it is in technically perfect condition.
As a consequence of technical developments, the illustrations and descriptions contained in these operating instructions may differ slightly from the tool actually delivered.
We do not accept any liability for damage caused by failure to observe these operating instructions.

1.2 Symbols used

All safety instructions in these operating instructions are indicated by corresponding symbols. The signal words at the beginning of each safety instruction express the extent of the hazard.

Danger!
Level 1 risk source
This combination of symbol and signal word indicates an imminently hazardous situation that will result in death or serious injury if not avoided.

Warning!
Level 2 risk source
This combination of symbol and signal word indicates a possibly hazardous situation that may result in death or serious injury if not avoided.

Caution!
Level 3 risk source
This combination of symbol and signal word stands for important information that helps to prevent damage to property or the environment.

The following overview describes the safety symbols on the product packaging and in these operating instructions.

Symbol	Meaning
	Risk to life from electrical current
	Warning: Sharp blades
	Wear protective gloves
	Wear safety glasses

Symbol	Meaning
	Always guide the blade away from your body when cutting
	Be aware of other people in the vicinity Never point the blade towards other people when cutting

1.3 Copyright

These operating instructions and all documentation supplied with this tool are protected by copyright and remain the property of KNIPEX.
The reprinting of these instructions, even in extract form, is only permitted with the written consent of KNIPEX Werk C. Gustav Putsch KG.

1.4 Guarantee and warranty

The manufacturer grants a statutory warranty in accordance with the current sales and delivery conditions. No further warranties or assurances are granted.
Within the warranty period, the warranty covers the rectification of all defects that can be traced back to material faults or manufacturing errors.
Wearing parts are excluded from the warranty.
The repair or replacement of a tool shall not result in an extension of the warranty period. Tools shall only be repaired or replaced with "as new" parts, whose function corresponds to that of the old parts. All defective and hence replaced parts are the property of the manufacturer.
Warranty claims shall expire in particular if:

- Damage is caused through improper operation, use for purposes other than those specified by the manufacturer, or poor maintenance.
- Repairs or conversions are carried out by unauthorized persons.
- Original accessories or spare parts from KNIPEX are not used.
- Defective components are not repaired immediately to minimise the extent of the damage and so as not to impair the safety of the tool (obligation to repair).

Furthermore, reference is made to the liability and warranty regulations of the current sales and delivery conditions.
In view of the wide variety of possible insulation materials with different properties, such as material hardness and material thickness, it is not possible to guarantee perfect cable skinning results in every application.
It is therefore the responsibility of the user to independently check the suitability and selection of the appropriate tool for the specific requirements.
We are happy to offer advice and support on request.

2 Safety

2.1 Intended use

The tool is intended for the following uses:

- Skinning of cables with various insulation materials (e.g. rubber, PVC, PUR) with diameters from 30 to 60 mm and wall thicknesses up to a maximum of 6.5 mm

Any use beyond the intended purpose or any unauthorized modification shall be considered improper. The operator shall be liable for damages resulting from improper use.

The tool is not insulated and does not protect against electric shock.

Intended use also includes adhering to these operating instructions. They must be read in full before use.

Danger!

Risk to life from electrical current!

De-energise all cables before cutting!

Only work on de-energised cables and lines!

Warning!

Warning: Sharp blades!

Handling sharp blades is dangerous. For this reason, make sure to handle your tools with care when working.

Always guide the blade away from your body when cutting.

Never point the blade towards other people when cutting.

Always turn the blade all the way back into the housing when the tool is not in use.

Warning!

Wear protective gloves

When using the tool, wear gloves with a cut resistance of at least class B (in accordance with DIN EN 388:2019-03).

If you are wearing insulating gloves at the same time, the cut-resistant gloves must be worn under the insulating gloves.

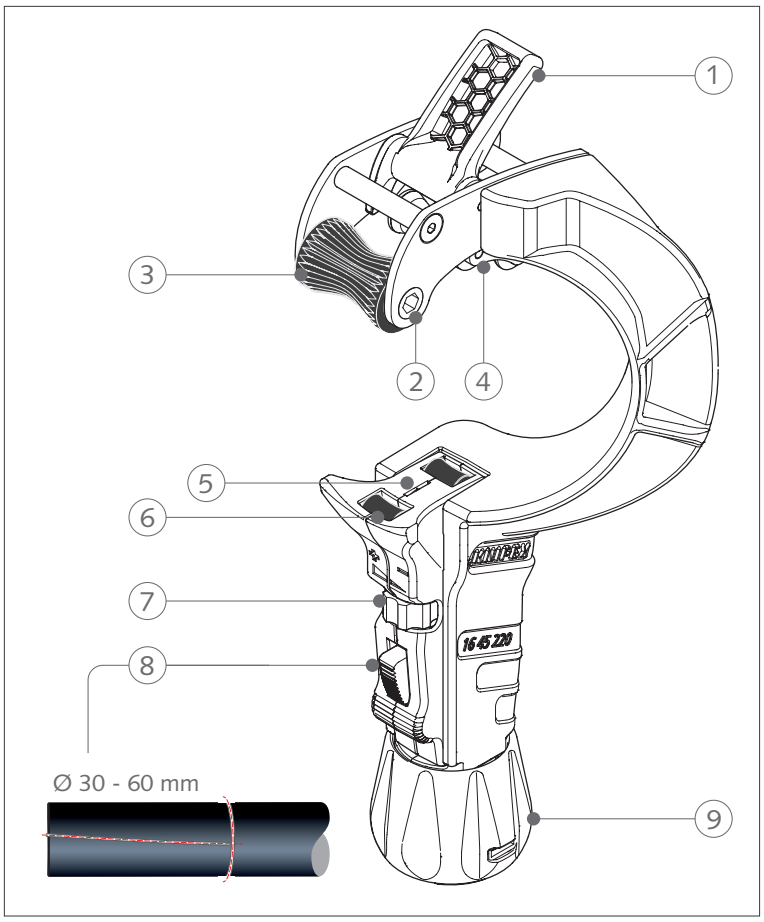
Warning!

Wear safety glasses

Wear safety goggles when using the tool!

3 Design and function

3.1 Design



Structure of the stripping tool

1 Fold-out pulling aid for longitudinal cuts
2 Double-sided holder for hexagon socket (size 5) for use with ratchet
3 Drive roller
4 Movable guide rollers
5 Blade (adjustable up to max. 6.5 mm)
6 Sliding rollers
7 Adjustment wheel for blade cutting depth
8 Slide for quick adjustment
9 Turning knob for fine adjustment with holder for 2 spare blades

3.2 Function

The stripping tool is used to skin cables with various insulation materials (e.g. rubber, PVC, PUR). It is suitable for cable diameters from 30 to 60 mm and a maximum wall thickness of 6.5 mm.

4 Operation

The tool may only be used by authorised, instructed and qualified specialist personnel.
Work on electrical installations may only be carried out by qualified electricians with the appropriate training.

4.1 Tips for cutting with the cable stripping tool

- Be aware of other people in the vicinity!
- No part of the body may be in the extension of the cutting line!
- Stand diagonally to the cut.
- Always wear cut-resistant gloves and safety goggles when cutting.
- The tool must be in good condition (sharp blade, sturdy handle).
- Never leave the tool unattended with the blade open!
- Always turn the blade back into the housing when the tool is not in use.

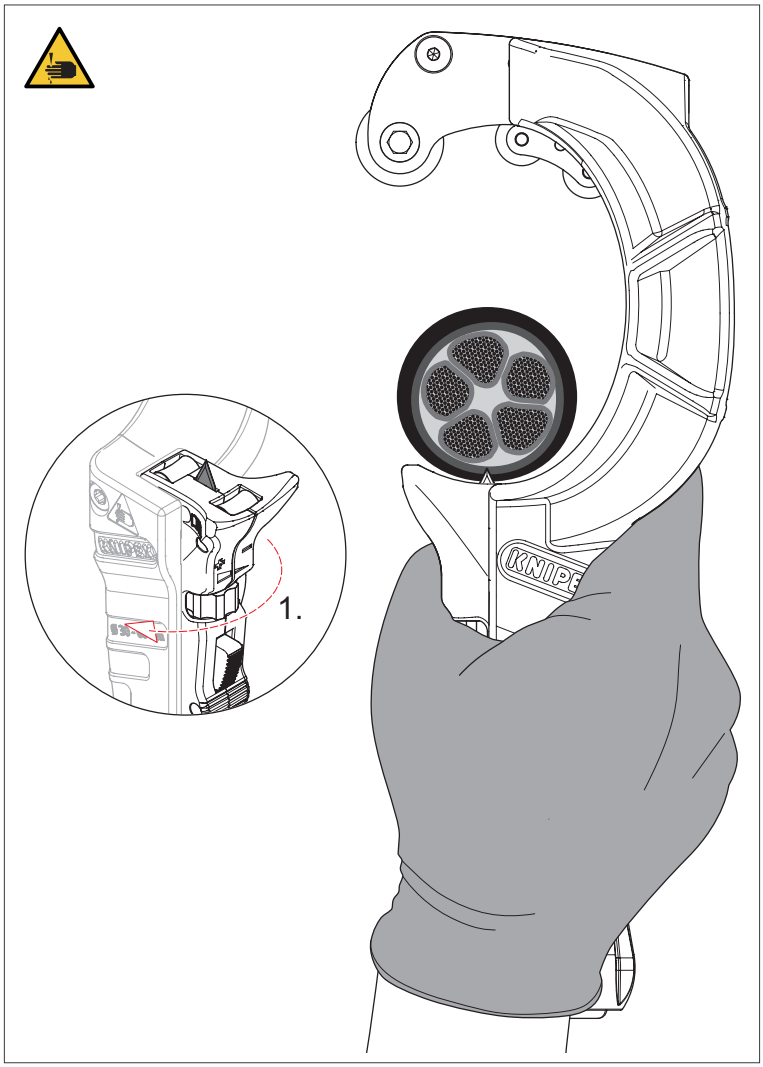
4.2 Five safety rules when working on electrical installations

1. De-energise the system.
2. Secure it to prevent it from being switched back on.
3. Verify that no current is present.
4. Earth and short circuit.
5. Cover or block off adjacent energised parts.

4.3 Stripping cables using circumferential cut

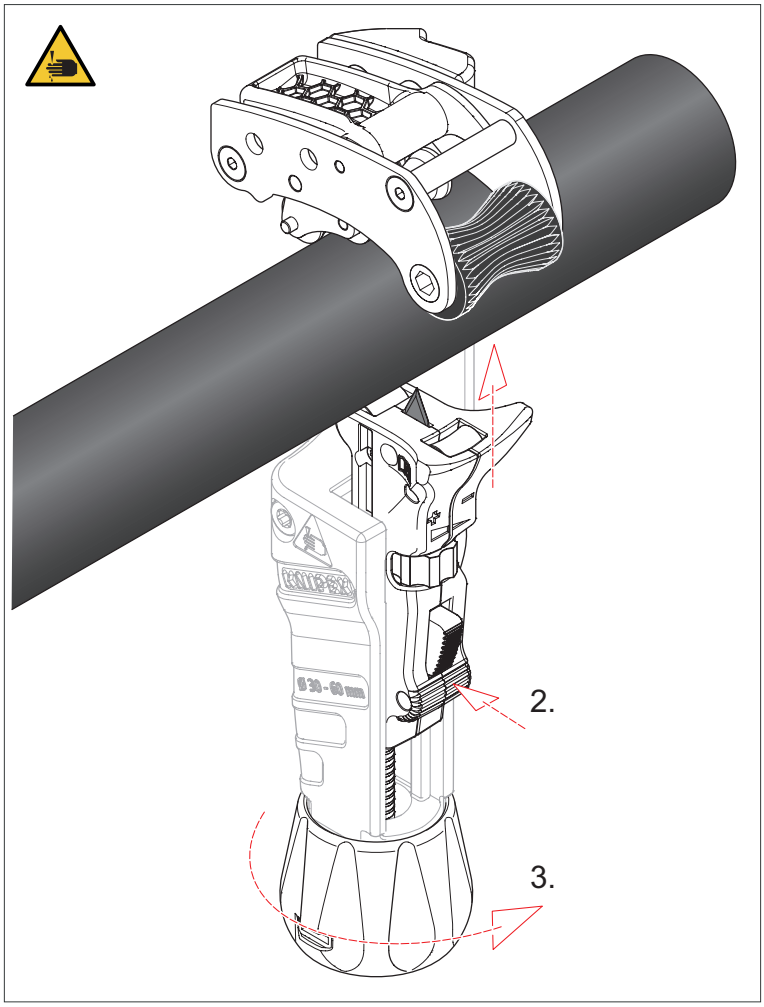
» Set the blade cutting depth using the setting wheel (1). Pay attention to the uneven material wall thicknesses (especially for cables with rubber insulation). Only turn the blade out far enough to cut through the **thinnest part of the cable insulation!**

» **Note:** The blade can be adjusted in increments of 0.1 mm to a maximum of 6.5 mm.



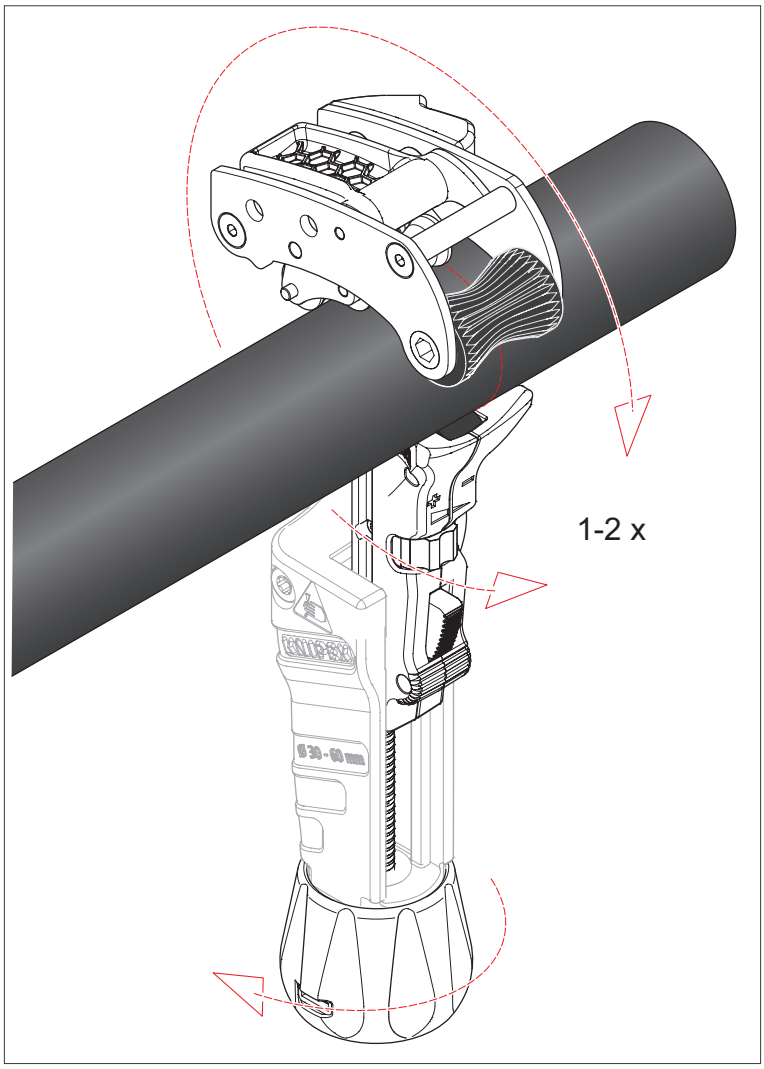
Setting the blade cutting depth

» Position the tool on the cable and push the slide with the blade towards the cable using the quick adjustment (2).
» Now turn the turning knob (3) slightly to the right until the blade is fully inserted in the cable sheath and the cable is secured. Do not apply too much pressure to the cable, otherwise the tool will not turn easily.



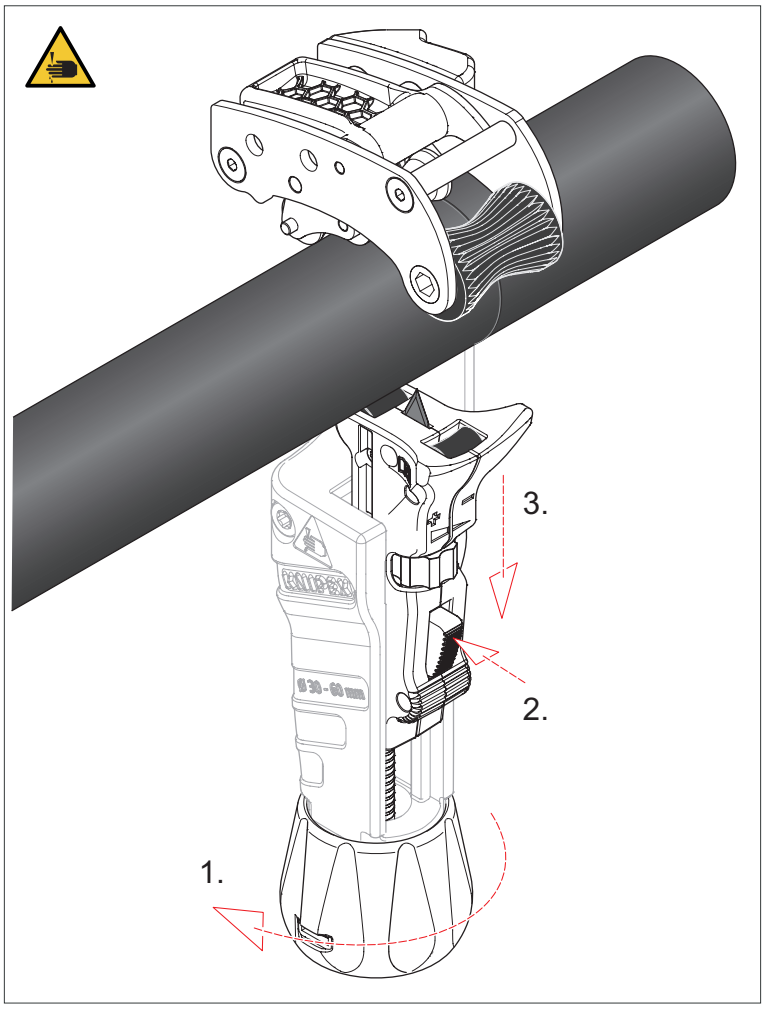
Positioning the tool for a circumferential cut

» Rotate the tool once or twice around the cable. If the tool cannot be turned or is very difficult to turn, turn the turning knob slightly to the left to reduce the pressure on the cable.



Carrying out a circumferential cut

» Turn the turning knob (1) to the left to release the tool from the cable. Press the button (2) on the quick adjustment and pull the slide (with the blade) downwards (3).



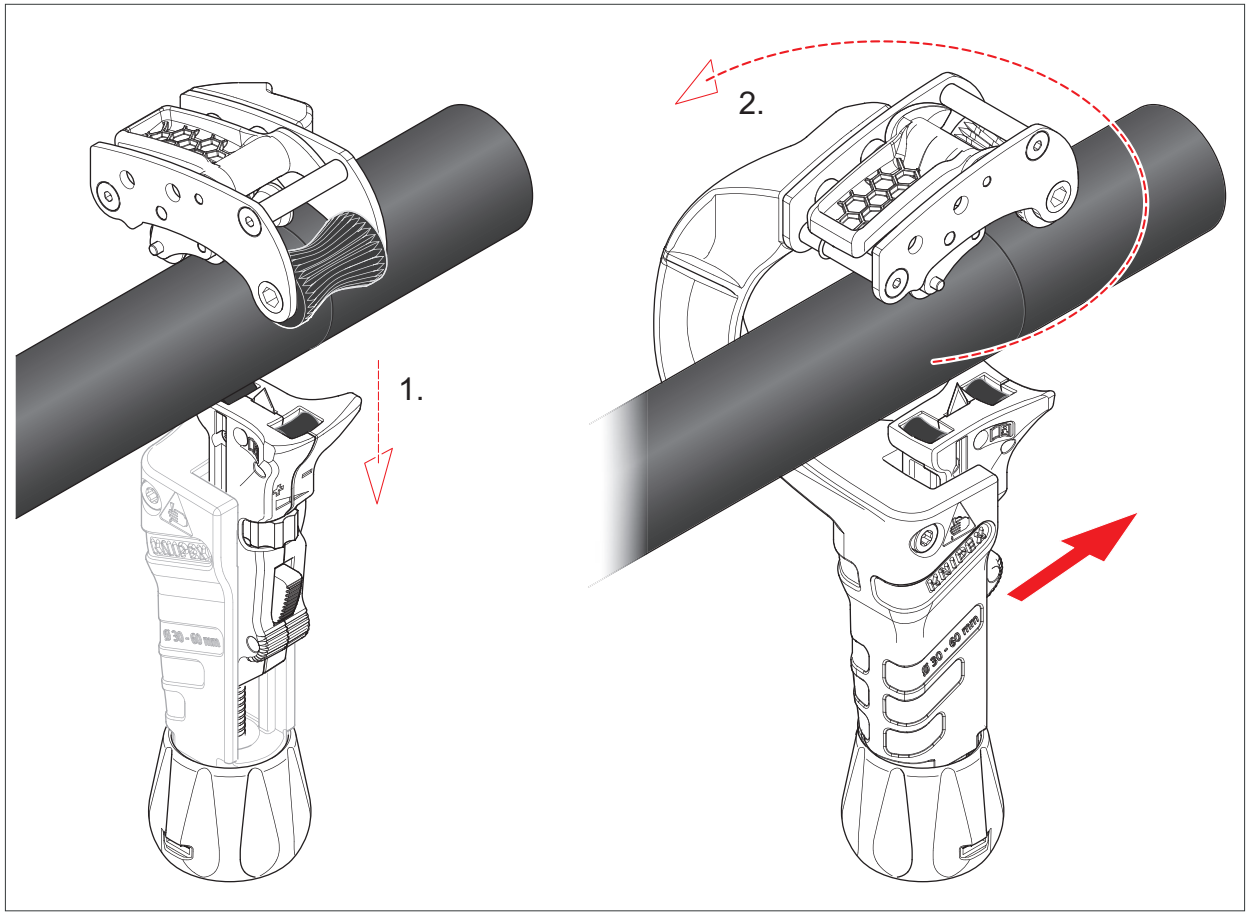
Releasing the tool

4.4 Skinning cables using longitudinal cut

Tip:
Pull the blade completely out of the insulation (1) and turn the tool 90° (2) directly after the circumferential cut on the cable!

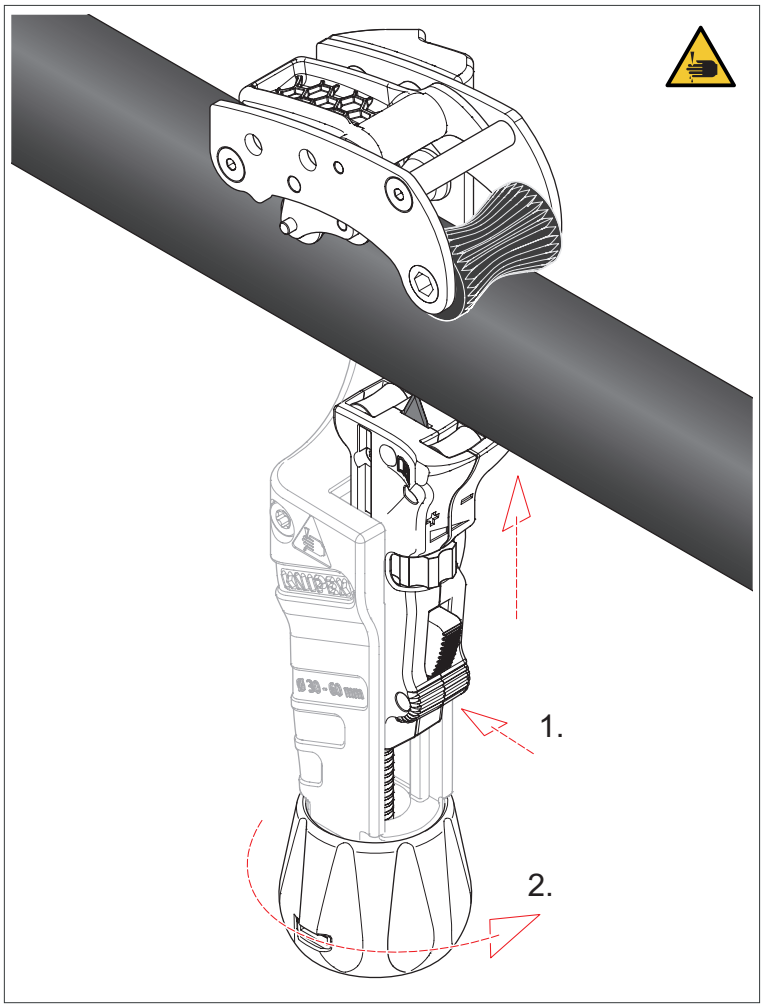
Warning!

Warning: Risk of injury due to incorrect use
Before turning the tool for the longitudinal cut, the blade must be pulled completely out of the insulation.
Otherwise the blade may break!
Broken blade parts can then get stuck in the cable sheath and cause cuts!



Turning the tool for a longitudinal cut

» Position the tool on the cable. Pay attention to the pulling direction of the pulling aid.
» Push the slide with the blade towards the cable using the quick adjustment (1).
» Now turn the turning knob (2) slightly to the right until the blade is fully inserted in the cable sheath and the cable is secured. Do not apply too much pressure to the cable, otherwise the tool cannot be pulled through the insulation when cutting lengthways.



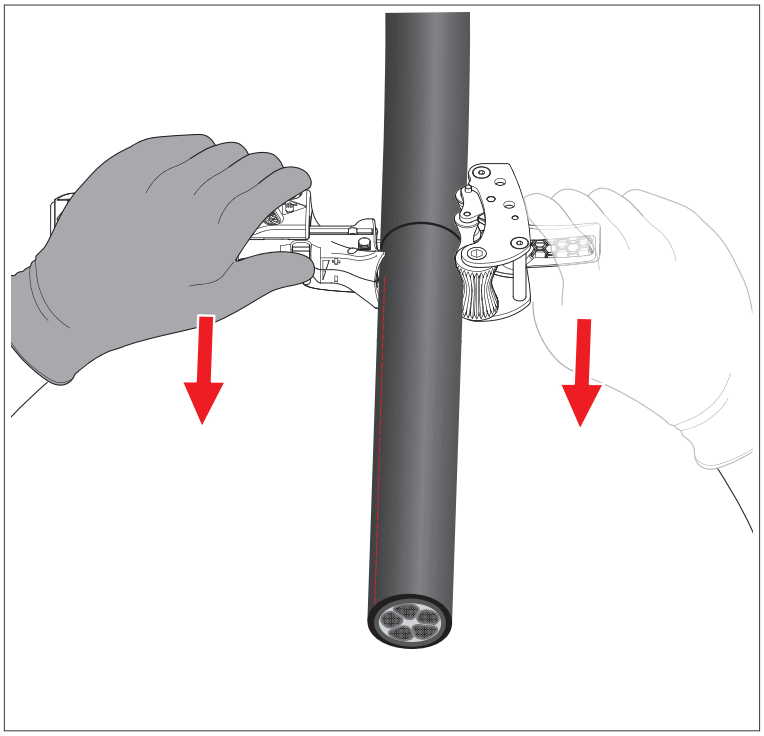
Positioning the tool for a longitudinal cut

Option 1: Use of the pulling aid

The blue handle at the top of the tool can be folded out and serves as a pulling aid when cutting lengthways through the insulation.

» Unfold the pulling aid.

» Pull on the pulling aid and handle with both hands. If the tool cannot be pulled or is very difficult to pull, turn the turning knob slightly to the left to reduce the clamping pressure on the cable.



Use of the pulling aid

Option 2: Use of a ratchet with hexagon socket (size 5)

A specially shaped drive roller supports the cable skinning process when cutting lengthways. There are holders on the side of the drive roller that can accommodate a size 5 hexagon socket with ratchet. The ratchet support means that less force is required for cable skinning.

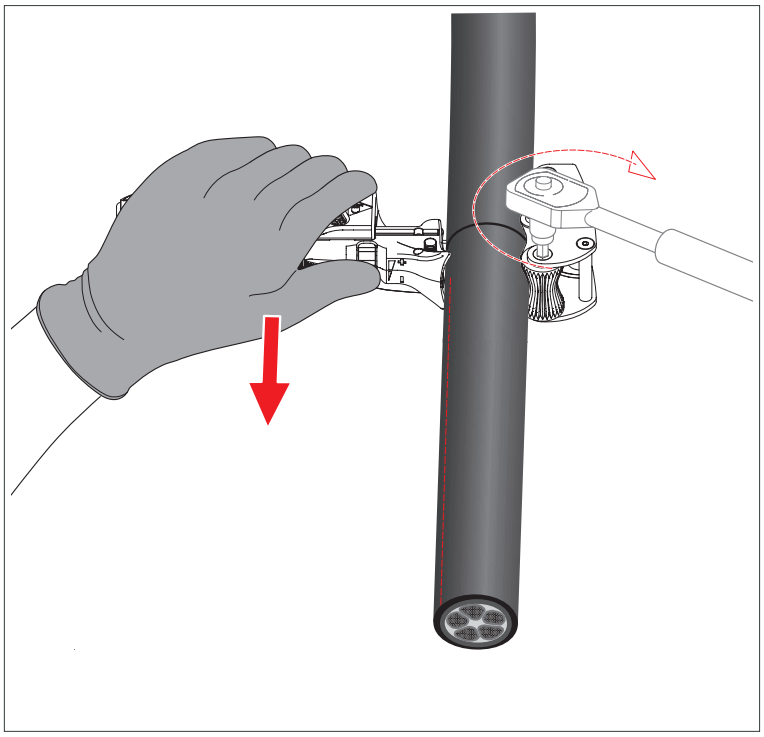
Note: Ratchet and hexagon socket are not included in the scope of delivery.

Caution!

Risk of material damage due to incorrect use!

Do not use any electrical or battery-powered devices as aids when cable skinning lengthwise.

» Place the hexagon socket with ratchet in the appropriate position.
» Operate the ratchet with one hand and guide the tool with the other.



Use of a ratchet

4.4.1 Breaking open the insulation

» Break open the cut cable sheath with a suitable tool (e.g. KNIPEX flat nose pliers, art. no.: 26 12 200).
» Turn the blade all the way back into the blade holder to avoid injury.

5 Maintenance

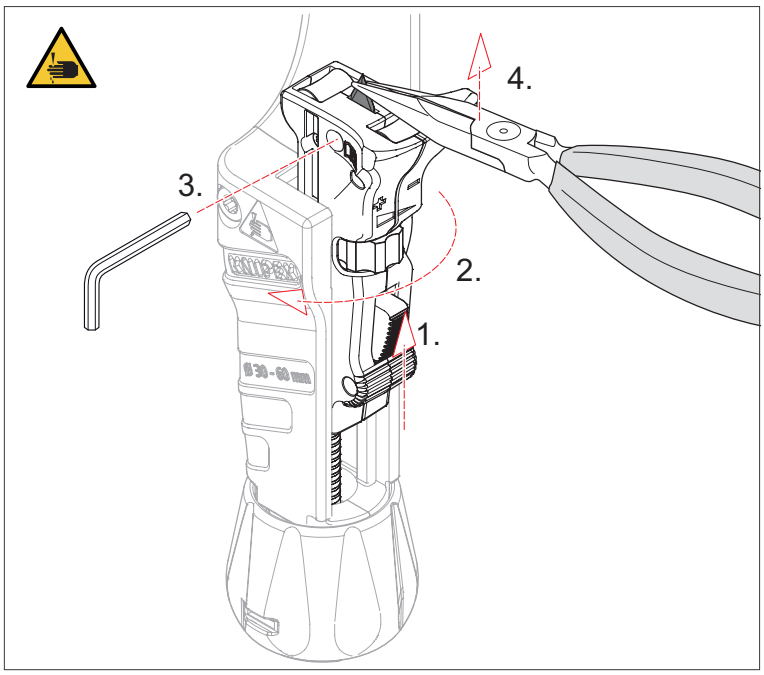
Warning!

Warning: Sharp blades!

Handling sharp blades is dangerous. For this reason, make sure to handle your tools with care when working.

5.1 Replacing the blade

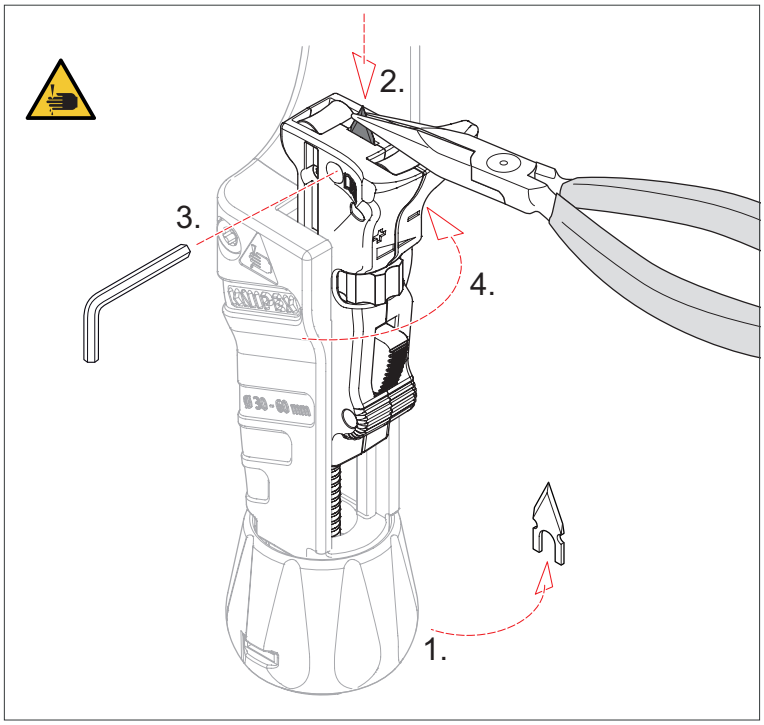
5.1.1 How to change the blade



How to change the blade

» Push the movable slide upwards slightly (1).
» Turn the blade cutting depth adjustment wheel (2) fully in the "+" direction to fully extend the blade.
» Loosen the hexagon socket fastening screw (3, size 2.5). Caution: The screw is fitted with a captive lock and therefore cannot be unscrewed.
» Remove the blade, e.g. with needle-nose pliers (4).
Caution: The blade is sharp!
» Dispose of the used blade properly.

5.1.2 Installing a new blade



Installing a new blade

Note: Two spare blades are located in the knob (1). If both are used up, new blades can be ordered under spare part number 16 45 220 E01.

» Insert the new blade (2), e.g. with needle-nose pliers.
Caution: The blade is sharp!
» Screw in the hexagon socket fastening screw (3, size 2.5) to secure the blade.
» Turn the blade cutting depth adjustment wheel (4) in the "-" direction to lower the blade into the housing.

5.1.3 Care instructions

Lubricate the moving parts (bearings of the movable guide rollers, drive roller) regularly with oil (e.g. industrial oil).
Clean the toothed drive roller regularly.

Warning!

Warning: Sharp blade!

Always turn the blade all the way back into the housing when the tool is not in use.

6 Technical data

6.1 Technical data

Technical data	Unit	
Part no. stripping tool	–	16 45 220
Part no. spare blade	–	16 45 220 E01
Length	mm	225
Width	mm	86
Height	mm	77
Weight	g	600
Maximum cutting depth	mm	6.5

7 Recycling and disposal

Ensure that the dismantled parts of the product are properly recycled.

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