



**TECHNICAL  
MANUAL**

**Ratchet cable cutter  
NC-45BC EXPERT EKF**

**EKF  
EXPERT**

## 1 DESCRIPTION

Ratchet cable cutter NC-45BC is designed for cutting stranded copper and aluminum cables with a diameter of max. 45 mm.

Total cable cross-section: 400 mm<sup>2</sup>.



## 2 OPERATION

1. Take the cutter out of the bag. Make sure that the material to be cut meets the specifications of the tool.
2. Place the cable against the fixed blade. Press the handle lock. While keeping it pressed, rotate the moving blade until it is in contact with the cable. Lock the segmented gear of the moving blade with the ratchet pawl.
3. Squeeze the handles repeatedly until the cable is cut cleanly and smoothly. To increase cutting efficiency, secure the fixed handle on a rigid stop and press the other handle with both hands.
4. To unlock the moving blade, press the ratchet pawl.

## 3 DESIGN

For main elements of the ratchet cable cutter NC-45BC, refer to the figure below. To cut a wire (cable), the moving blade rotates around its axis. The enhanced blade geometry ensures an optimal cutting effort for perfect accuracy, minimal deformation, and cable integrity. Every time the handles are pulled apart, the blade moves forward one stroke, while the lock keeps it from reverse stroke. The number of cuts depends on the diameter of the wire (cable). Smaller gear train teeth size allows for lower cutting effort.

## 4 SAFETY REQUIREMENTS

1. Ratchet cable cutters are professional tools that must be operated and serviced by qualified personnel.
2. Use the tool as intended.
3. Follow industry safety precautions.
4. Carefully inspect the tool for integrity.
5. Ensure that the tool mechanism is kept free from dirt, sand, clay, or other abrasive particles. After completing the work, wipe the tool with a dry cloth.
6. If encountering the tool damage or malfunctioning, discontinue its use immediately.

**WARNING! DO NOT use the tool for cutting live cables!**

## 5 TECHNICAL DATA

Characteristics	Values
Stranded copper and aluminum cable, mm	Max. 45; cable cross-section 400 mm <sup>2</sup>
Length, mm	283
Weight, kg	0,9

## 6 DELIVERY SCOPE

Ratchet cable cutters are supplied in individual or group packaging. For all available documentation, scan the QR-code on the insert or on the inside of the package.

## 7 TRANSPORTATION, STORAGE AND OPERATION CONDITIONS

Operating temperature, °C	-15 to +40
Transportation temperature, °C	-25 to +50
Relative humidity, %	20-90 (non-condensing)

If the tool is stored at a temperature below -15°C, keep it for 3 hours at a temperature above +10°C before operating. Ratchet cable cutter shall be stored, maintained and repaired in a designated room. After completing the work, remove cable residues, dirt and moisture and wipe the tool with a cloth. Lubricate the tool if required. Do not store the tool in a place subject to corrosion. During long-term storage, lubricate the working parts of the tool with anti-corrosion compound.

## 8 MANUFACTURER'S WARRANTY

Appearance and specifications are subject to change without notice. The manufacturer guarantees the products comply with the declared characteristics, provided that consumers follow the operation, transportation and storage conditions.

**Warranty period:** 1 year from date of sale.

**Shelf life:** 1 year. **Service life:** 5 years.

**Manufacturer:** 000 Electroresheniya, Otradnaya st., 2b/9, 127273, Moscow, Russia, tel. +7 (495) 788-88-15.

**MEA regional headquarters:** EKF ELECTRICAL SOLUTION FZCO, Techno Hub-2, DSO, P.O. box 341079, Dubai, United Arab Emirates, tel. +9 (714) 547-06-18.

**Importer and EKF trademark service representative in the territory of the Republic of Kazakhstan:** TOO «Energoresheniya Kazakhstan», Kazakhstan, Almaty, Bostandyk district, Turgut Ozal st., 247, apt 4.

## 9 CERTIFICATE OF ACCEPTANCE

Ratchet cable cutter EXPERT EKF has been manufactured in compliance with laws and regulations in force and has been approved for operation.

Date of manufacture:  
for information, refer to the product package.

Quality control stamp



EAC



V3

[ekfgroup.com](http://ekfgroup.com)

