

- Manuals.plus /
- > [AMZCNC](#) /
  - > AMZCNC Hydraulic Crimping Tool and Cable Cutter User Manual

AMZCNC Crimping Tool

AMZCNC Hydraulic Crimping Tool and Cable Cutter User Manual

Model: Crimping Tool | Brand: AMZCNC

1. PRODUCT OVERVIEW

The AMZCNC Hydraulic Crimping Tool and Cable Cutter is designed for efficient and reliable crimping of electrical terminals and cutting of cables. This versatile tool kit is suitable for a wide range of applications, including battery and welding cables, power wires, and general electrical cables.



Figure 1: Complete AMZCNC Hydraulic Crimping Tool and Cable Cutter Kit.

Key features include a crimping range of 12 AWG to 2/0 AWG and a maximum cutting capacity of 2/0 AWG. The kit comes with 9 pairs of hexagon crimping dies to accommodate various wire gauges. Its innovative collet structure ensures stability, and the handle return spring allows for convenient one-handed operation. The crimper head can rotate 180° for working in narrow spaces.

## 2. COMPONENTS AND SPECIFICATIONS

### 2.1 Included Components:

- Hydraulic Crimping Tool
- Cable Cutter
- 9 Pairs of Hexagon Crimping Dies (12, 10, 8, 6, 4, 2, 1/0, 2/0 AWG, and 1/8" for stainless steel wire rope)
- Storage Case
- Instruction Manual

### 2.2 Hydraulic Crimping Tool Parameters:

# HYDRAULIC CRIMPING TOOLS

## Parameter

|                 |                                                                                   |
|-----------------|-----------------------------------------------------------------------------------|
| Item No.:       | YQK-70                                                                            |
| Crimping Range: | 12AWG~00AWG                                                                       |
| Crimping Force: | 80KN (MAX. 100KN)                                                                 |
| Stroke:         | 11mm                                                                              |
| Length:         | approx 12"                                                                        |
| Weight:         | approx 4 lb                                                                       |
| Crimping die:   | 12AWG,10AWG,8AWG,6AWG,4AWG,2AWG,0AWG,00AWG,<br>1/8" for stainless steel wire rope |



Compared to products without return springs, operating the handle with one hand is easier, enabling a single person to complete the crimping job independently.



Innovative Clamp Head Structure Ensures Secure Mold Fixation, Preventing Misplacement.



The crimping die hardness reaches HRC38, which is durable and will not deform.

Figure 2: Detailed parameters for the Hydraulic Crimping Tool.

- Item No.: YQK-70
- Crimping Range: 12 AWG - 00 AWG (2/0 AWG)
- Crimping Force: 80KN (MAX. 100KN)

- **Stroke:** 11mm
- **Length:** approx 12"
- **Weight:** approx 4 lb
- **Crimping Dies:** 12, 10, 8, 6, 4, 2, 1/0, 2/0 AWG, and 1/8" for stainless steel wire rope

### 2.3 Cable Cutter Parameters:

# WIRE SCISSORS

## Parameter

|              |               |
|--------------|---------------|
| Item No.:    | 10"           |
| Max Cutting: | 00 AWG        |
| Length:      | 10"           |
| Weight:      | approx 0.8 lb |



Not suitable for cutting stainless steel wire rope  
Suitable for cutting copper and aluminum wire



Not suitable for cutting stainless steel wire rope  
Suitable for cutting copper and aluminum wire



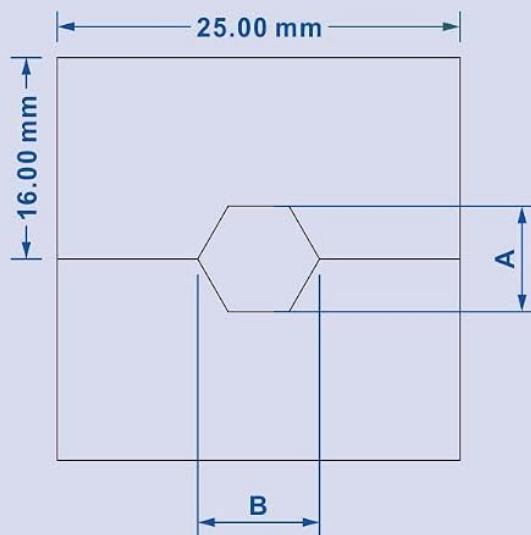
Figure 3: Detailed parameters for the Cable Cutter.

- Item No.: 10"
- Max Cutting: 00 AWG
- Length: 10"

- **Weight:** approx 0.8 lb
- **Note:** Suitable for cutting copper or aluminum cables only. Not suitable for cutting stainless steel wire rope.

## 2.4 Die Sets Included:

# INCLUDES 9 DIE SETS



| SI                | BS    | A      | B       |
|-------------------|-------|--------|---------|
| 4mm <sup>2</sup>  | 12AWG | 3mm    | 4.25mm  |
| 6mm <sup>2</sup>  | 10AWG | 3.5mm  | 5mm     |
| 8mm <sup>2</sup>  | 1/8"  | 4.5mm  | 5.25mm  |
| 10mm <sup>2</sup> | 8AWG  | 5mm    | 6.5mm   |
| 16mm <sup>2</sup> | 6AWG  | 6mm    | 8.25mm  |
| 25mm <sup>2</sup> | 4AWG  | 7.25mm | 10.25mm |
| 35mm <sup>2</sup> | 2AWG  | 8mm    | 11.25mm |
| 50mm <sup>2</sup> | 0AWG  | 9.75mm | 13.5mm  |
| 70mm <sup>2</sup> | 00AWG | 11.5mm | 15mm    |

|                 |     |
|-----------------|-----|
| 12AWG<br>1/16"  | #4  |
| 10AWG<br>1/16"+ | #6  |
| 1/8"            | #8  |
| 8AWG<br>5/32"   | #10 |
| 6AWG            | #16 |
| 4AWG<br>3/16"   | #25 |
| 2AWG<br>1/4"    | #35 |
| 1/0AWG          | #50 |
| 2/0AWG          | #70 |

Figure 4: Overview of the 9 included die sets for various wire gauges.

Crimping Die Sizes

| SI (mm <sup>2</sup> ) | BS (AWG) | A (mm) | B (mm)  |
|-----------------------|----------|--------|---------|
| 4mm <sup>2</sup>      | 12AWG    | 3mm    | 4.25mm  |
| 6mm <sup>2</sup>      | 10AWG    | 3.5mm  | 5mm     |
| 8mm <sup>2</sup>      | 1/8"     | 4.5mm  | 5.25mm  |
| 10mm <sup>2</sup>     | 8AWG     | 5mm    | 6.5mm   |
| 16mm <sup>2</sup>     | 6AWG     | 6mm    | 8.25mm  |
| 25mm <sup>2</sup>     | 4AWG     | 7.25mm | 10.25mm |
| 35mm <sup>2</sup>     | 2AWG     | 8mm    | 11.25mm |
| 50mm <sup>2</sup>     | 0AWG     | 9.75mm | 13.5mm  |
| 70mm <sup>2</sup>     | 00AWG    | 11.5mm | 15mm    |

3. SETUP AND OPERATION

3.1 Installing Crimping Dies:

- 1. Select the appropriate die size for your cable and terminal. Refer to the die size table in Section 2.4.
- 2. Open the crimper head by rotating the "Work/Reset" knob to "Reset" and pulling the handles apart.
- 3. Insert the selected die halves into the crimper head, ensuring they are properly seated.



Figure 5: Correctly installing the crimping dies into the tool head.

3.2 Crimping Procedure:

- 1. Prepare your cable by stripping the insulation to the appropriate length for your terminal.
- 2. Insert the stripped cable into the terminal lug.
- 3. Place the terminal lug with the cable into the selected crimping dies.
- 4. Rotate the "Work/Reset" knob to "Work" to engage the hydraulic mechanism.
- 5. Pump the handle repeatedly until the dies fully close and the crimp is complete. The tool will automatically release pressure when the crimp is finished.
- 6. Rotate the "Work/Reset" knob to "Reset" to release the pressure and open the dies.
- 7. Remove the crimped terminal.

Your browser does not support the video tag.

Video 1: Demonstration of the hydraulic crimping process for electrical terminals.



Figure 6: Visual guide for the crimping operation.

### 3.3 Cable Cutting Procedure:

Use the included cable cutter for clean cuts on copper and aluminum cables up to 2/0 AWG. Ensure the cable cutter is only used for its intended materials to prevent damage.

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Video 2: Demonstration of using the cable cutter for clean cable cuts.

## 4. SAFETY INFORMATION

- **WARNING:** Read the instruction manual before using the product.
- Do not use the tool without dies installed.
- Always wear proper personal protective equipment, including safety glasses and gloves, when operating the tool.
- Ensure the tool is clean and free from debris before and after each use.
- Do not attempt to crimp materials beyond the specified range (12 AWG - 2/0 AWG).
- The cable cutter is only suitable for copper or aluminum cables. Do not use it to cut steel wire rope or other hard materials.
- Keep hands and fingers clear of the crimping dies during operation.
- Store the tool in its case in a dry, secure location when not in use.

## 5. MAINTENANCE

- Regularly inspect the crimping dies and tool head for any signs of wear or damage. Replace worn parts as necessary.
- Keep the tool clean. Wipe down the tool and dies after each use to remove any dirt, dust, or residue.
- Apply a light coat of machine oil to moving parts and dies periodically to ensure smooth operation and prevent rust.
- Store the tool in its original case to protect it from environmental elements and physical damage.
- If the hydraulic system experiences issues, such as loss of pressure or incomplete crimps, consult the troubleshooting section or contact customer support.

## 6. TROUBLESHOOTING

### Common Issues and Solutions:

- **Incomplete Crimp:**
  - Ensure the correct die size is used for the cable and terminal.
  - Verify the "Work/Reset" knob is fully set to "Work".
  - Pump the handle until the dies fully close and the automatic pressure release activates.
- **Dies Not Closing/Opening Properly:**
  - Check for any obstructions or debris in the die area.
  - Ensure the dies are correctly installed and seated.
  - Verify the "Work/Reset" knob is fully rotated to the desired position ("Work" or "Reset").
- **Tool Leaking Oil:**
  - This may indicate a seal issue. Refer to the included seals for potential replacement or contact customer support.
- **Cable Cutter Not Cutting Cleanly:**
  - Ensure the cable material is copper or aluminum and within the specified cutting range.
  - Inspect the cutter blades for damage or dullness.

## 7. WARRANTY AND SUPPORT

AMZCNC products are double-checked for quality before leaving the factory. If you encounter any quality problems or require assistance with your Hydraulic Crimping Tool and Cable Cutter, please contact AMZCNC customer support.

For further information or support, please visit the official AMZCNC store or contact their customer service department.

*Note: This manual provides general instructions. Always prioritize safety and consult a professional if unsure about any procedure.*

## ASK A QUESTION ABOUT THIS MANUAL

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Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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