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AMZCNC Standard US 12AWG to 2/0AWG

AMZCNC Hydraulic Crimping Tool User Manual

Model: Standard US 12AWG to 2/0AWG

1. Product Overview

The AMZCNC Hydraulic Crimping Tool is designed for efficient and secure crimping of electrical cables, particularly for battery and welding cables, power wires, and general electrical applications. It features a hydraulic mechanism for powerful crimping with minimal effort, ensuring reliable connections that comply with UL or SAE standards.

This tool kit includes 9 sets of American Standard dies, ranging from 12 AWG to 2/0 AWG, providing versatility for various wire gauges. Its ergonomic design and 360° rotatable head enhance usability and access in confined spaces.



Image: The AMZCNC Hydraulic Crimping Tool shown with its included American Standard dies and examples of crimped wires.

2. Safety Information

WARNING:

- Always read the instruction manual thoroughly before using the tool.
- Do not use the tool without the appropriate dies installed.
- Always wear proper personal protective equipment, including safety glasses and gloves, to protect yourself from potential hazards.
- Ensure the workpiece is stable and secure before crimping.
- Do not exceed the rated crimping force of 8 US TON.
- Keep hands and fingers clear of the crimping jaws during operation.
- Store the tool in its case in a dry, secure place away from children and unauthorized users.

3. Package Contents

Verify that all items are present in your package:

- 1 x AMZCNC Hydraulic Crimping Tool
- 9 Sets of American Standard Dies (12 AWG, 10 AWG, 8 AWG, 6 AWG, 4 AWG, 2 AWG, 1 AWG, 1/0 AWG, 2/0 AWG)
- 1 x Durable Storage Case
- 1 x Instruction Manual (this document)



Image: The hydraulic crimping tool and its complete set of dies neatly organized within the included storage case.

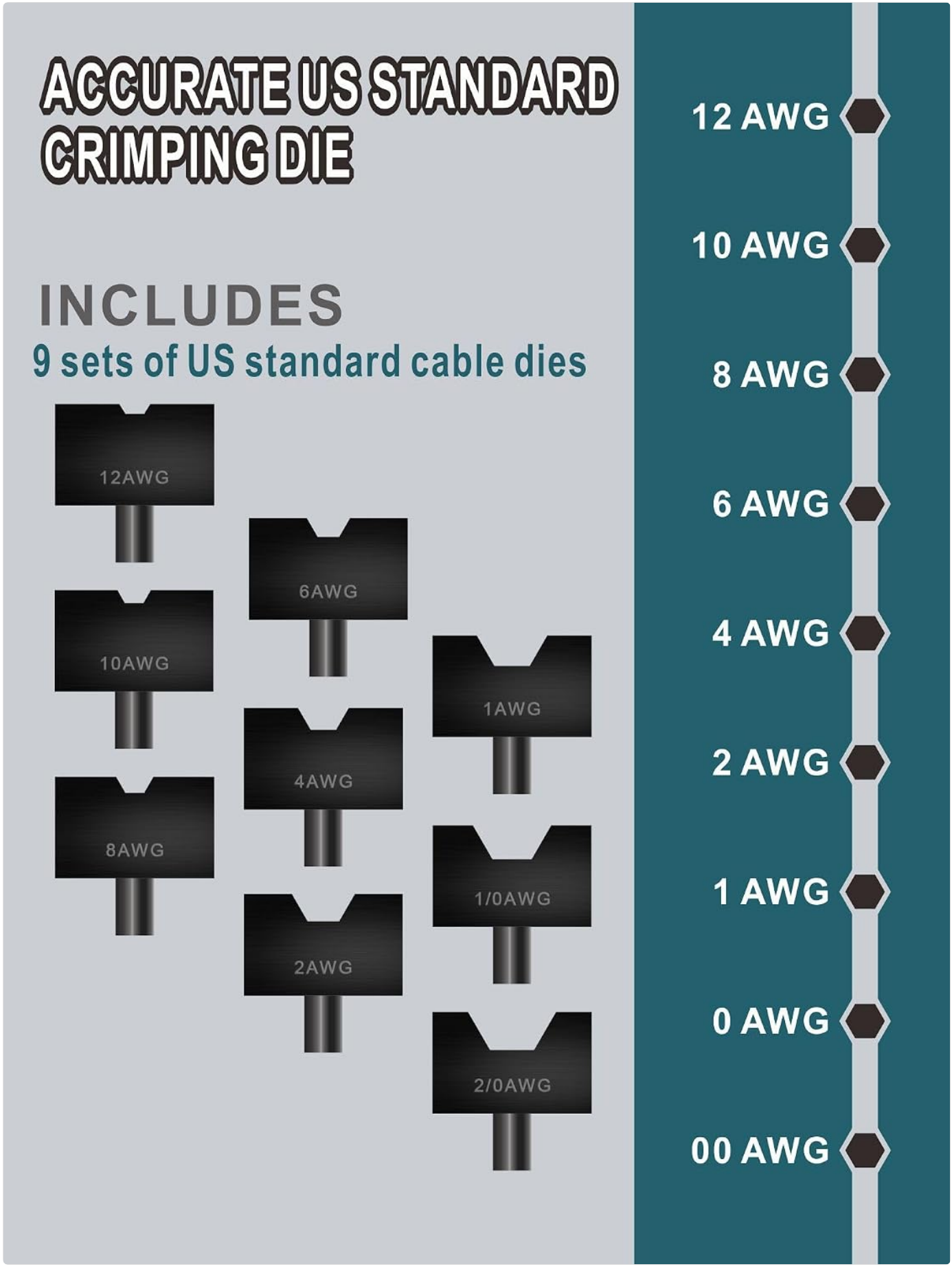


Image: A detailed view of the nine pairs of American Standard dies, each clearly marked with its corresponding AWG size.

4. Setup

1. **Select the Correct Die:** Identify the appropriate die size (AWG) that matches the cable and connector you intend to crimp. The dies are clearly marked.
2. **Insert Dies:** Open the crimping head by rotating the "Work/Reset" knob to the "Reset" position (if not already there) and pulling the movable jaw open. Carefully insert the two halves of the selected die into the crimping head, ensuring they are seated correctly.



Image: Step-by-step visual guide demonstrating the proper insertion of the two die halves into the crimping tool's head.

3. **Close Crimping Head:** Push the movable jaw back into place until it clicks or is securely closed around the dies.

5. Operating Instructions

Follow these steps for effective crimping:

1. **Prepare Cable and Connector:** Strip the insulation from your cable to the appropriate length for your chosen connector. Insert the bare wire into the connector barrel.
2. **Position for Crimping:** Place the cable and connector into the selected die opening in the crimping head. Ensure the connector is centered within the die. The tool's head can rotate 360° to facilitate access in various working conditions.



Image: A detailed view of the crimping head, highlighting its ability to rotate 360 degrees for optimal positioning during crimping.

3. **Engage Hydraulic Mechanism:** Rotate the "Work/Reset" knob to the "Work" position. This engages the hydraulic pump.



Image: A close-up shot illustrating the rotation of the "Work/Reset" knob to the "Work" setting, preparing the tool for crimping.

4. **Perform Crimping:** Pump the handle repeatedly until the dies fully close and the crimp is complete. You will feel increased resistance as the crimp forms. Continue pumping until the pressure relief valve activates (a slight click or release of pressure), indicating maximum crimping force has been applied.

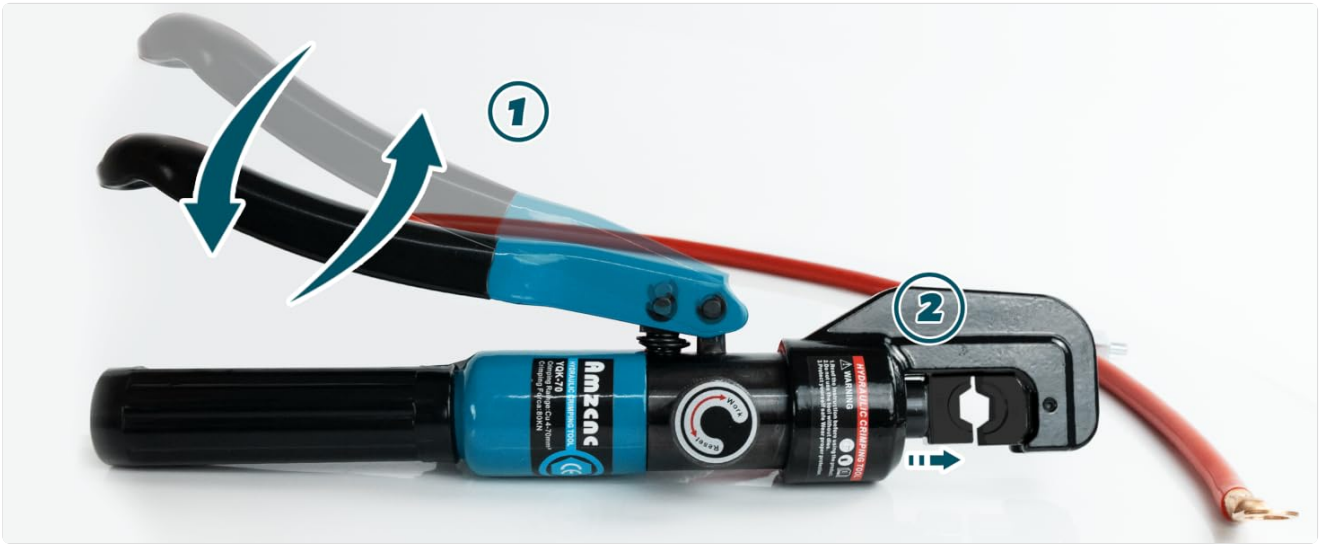


Image: Visual representation of the crimping action, with the user pumping the handle to apply hydraulic pressure.

5. **Release Pressure:** Once the crimp is complete, rotate the "Work/Reset" knob to the "Reset" position. This will release the hydraulic pressure and allow the dies to open.



Image: Depiction of the final step in the crimping process, showing the knob being turned to the "Reset" position to release pressure and open the dies.

6. **Remove Crimped Connector:** Remove the securely crimped cable and connector from the tool.

Video Demonstration:

Your browser does not support the video tag.

Video: A demonstration of the AMZCNC Hydraulic Crimping Tool in use, showing die insertion, operation, and the crimping process. (Source: Seller NBMAZAK)

6. Maintenance

- **Cleaning:** After each use, wipe down the tool and dies with a clean, dry cloth to remove any dirt, debris, or metal shavings.
- **Lubrication:** Periodically apply a light coat of machine oil to the moving parts of the crimping head and dies to ensure smooth operation and prevent rust.
- **Storage:** Store the tool and all dies in the provided durable storage case in a dry environment to protect them from moisture and damage.
- **Inspection:** Regularly inspect the dies for wear or damage. Replace any worn or damaged dies to ensure consistent and reliable crimps. Check the tool for any signs of leaks or damage to the hydraulic system.

7. Troubleshooting

Problem	Possible Cause	Solution
Tool does not crimp fully or pressure is weak.	"Work/Reset" knob not fully in "Work" position. Air in hydraulic system. Low hydraulic fluid. Incorrect die size for cable/connector.	Ensure knob is fully engaged in "Work". Cycle the tool several times without a workpiece to bleed air. Consult manufacturer for hydraulic fluid refill instructions (do not attempt if unfamiliar). Verify correct die size.
Dies do not open after crimping.	"Work/Reset" knob not fully in "Reset" position. Excessive pressure applied.	Ensure knob is fully engaged in "Reset". Apply gentle force to open dies, then ensure knob is fully reset for future operations.
Crimped connection is loose or deformed.	Incorrect die size. Insufficient crimping force. Improper cable/connector preparation.	Use the correct die size for the specific cable and connector. Ensure the tool is pumped until the pressure relief valve activates. Verify cable is stripped correctly and fully inserted into the connector.

8. Specifications

Feature	Detail
Brand	AMZCNC
Model Number	Standard US 12AWG to 2/0AWG
Crimping Range	12 AWG - 2/0 AWG (American Standard)
Rated Crimping Force	8 US TON
Stroke	0.5 Inch
Included Dies	9 Sets (12, 10, 8, 6, 4, 2, 1, 1/0, 2/0 AWG)
Head Rotation	360°
Tool Material	Alloy Steel
Handle Material	Carbon Steel
Grip Type	Ergonomic
Color	Cyan
Item Weight	4 Pounds
Product Dimensions	12.6"L x 5.5"W
Power Source	Manual Hydraulic (No Batteries Required)
Country of Origin	China

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,1AWG,0AWG, 00AWG for US standard cable







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 accurate us standard crimping die has a hardness rating of HRC38, making it durable and resistant to deformation.

Image: A visual representation of the tool alongside a table detailing its key specifications and parameters.

9. Warranty and Support

The AMZCNC Hydraulic Crimping Tool comes with a**one-year warranty** from the date of purchase.

If you encounter any issues or require assistance with your product, please contact AMZCNC customer service. You can reach us for repair or replacement if there is any fault with the tool within the warranty period.

For further support, please visit the official AMZCNC store on Amazon:AMZCNC Store

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