

AMZCNC MHP-20

AMZCNC MHP-20 Electric Hydraulic Hole Punch User Manual

Model: MHP-20

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your AMZCNC MHP-20 Electric Hydraulic Hole Punch. Please read this manual thoroughly before using the tool to ensure proper function and to prevent injury or damage.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, when operating the tool.
- Ensure the power supply matches the tool's requirements (110V, 60Hz).
- Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- Secure the workpiece firmly before punching to prevent movement and ensure accuracy.
- Never touch the punching die or workpiece during operation.
- Disconnect the power plug from the power source before making any adjustments, changing accessories, or storing power tools.
- Use only AMZCNC approved punching dies and accessories.
- Do not force the tool. Use the correct tool for your application.
- Regularly inspect the power cord for damage. If damaged, have it repaired by a qualified technician.

3. PRODUCT OVERVIEW

The AMZCNC MHP-20 is a powerful electric hydraulic hole punch designed for efficient and precise hole punching in various metal plates. It features a robust 1200W motor and offers quick punching speeds.



Image: The AMZCNC MHP-20 Electric Hydraulic Hole Punch, its carrying case, various punching dies, and essential accessories including wrenches and lubricant.

Key Features:

- **Fast Electric Punching:** Achieves punching speeds of 1-3 seconds.
- **Accurate Positioning:** Designed for precise hole drilling in copper, aluminum, steel, iron plate, and angle iron.
- **Wide Punching Range:** Capable of punching various material thicknesses.
- **Easy to Operate:** Features one-button start and two working modes (handheld and vertical).
- **Durable Construction:** Punch made of UNS1566 with a high-strength forged body.
- **Efficient Performance:** Precision steel-drill mechanism and powerful all-copper motor ensure efficient punching with minimal burrs.



Image: The AMZCNC Electric Hydraulic Hole Punch shown with various material applications including U-shaped steel, angle steel, copper plate, and aluminum plate.

4. WHAT'S IN THE BOX

Upon unpacking, please verify that all the following items are included:

- 1 x AMZCNC MHP-20 Electric Hydraulic Hole Punch
- 5 x Punch Dies ($\Phi 6.5\text{mm}$, $\Phi 9\text{mm}$, $\Phi 13\text{mm}$, $\Phi 17\text{mm}$, $\Phi 20.5\text{mm}$)
- 1 x Carrying Case
- 1 x Auxiliary Handle
- 1 x Lubricant Bottle
- 2 x Hex Wrenches
- 2 x Open-end Wrenches

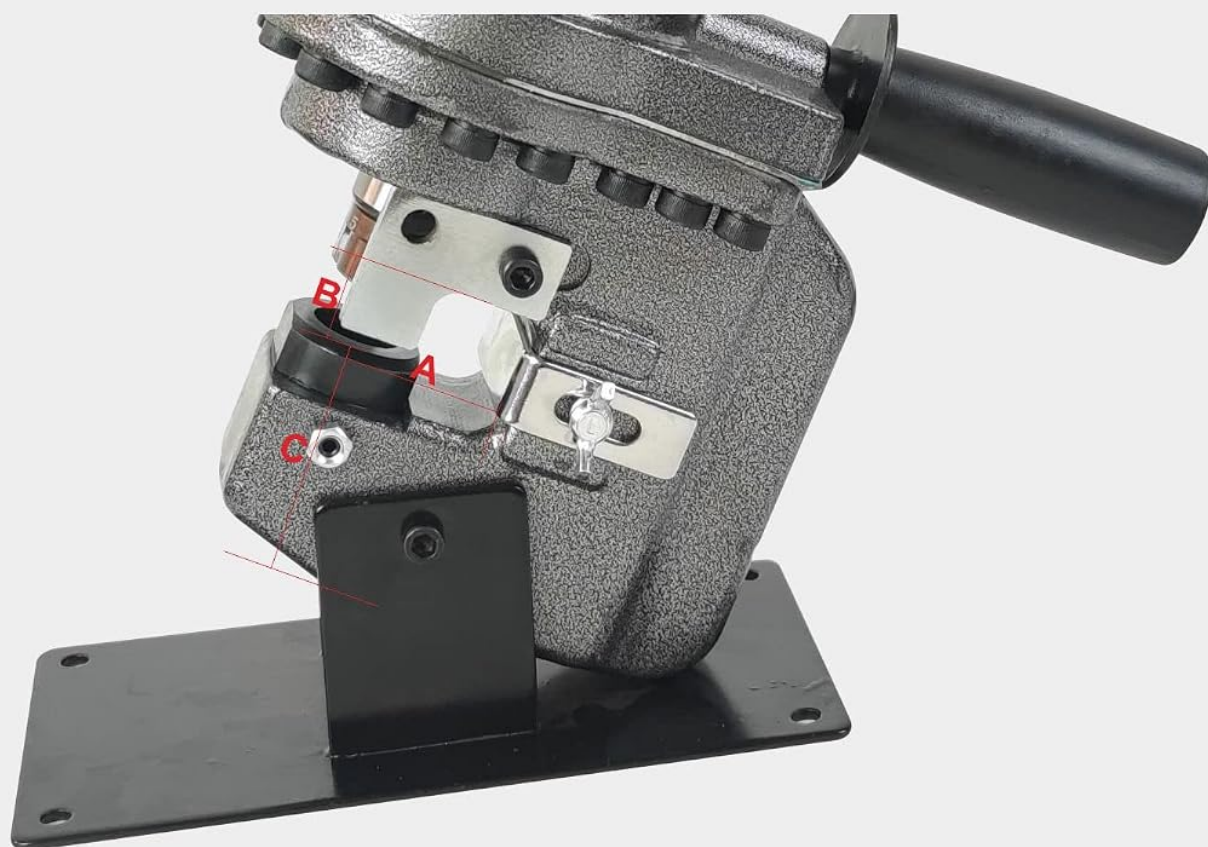
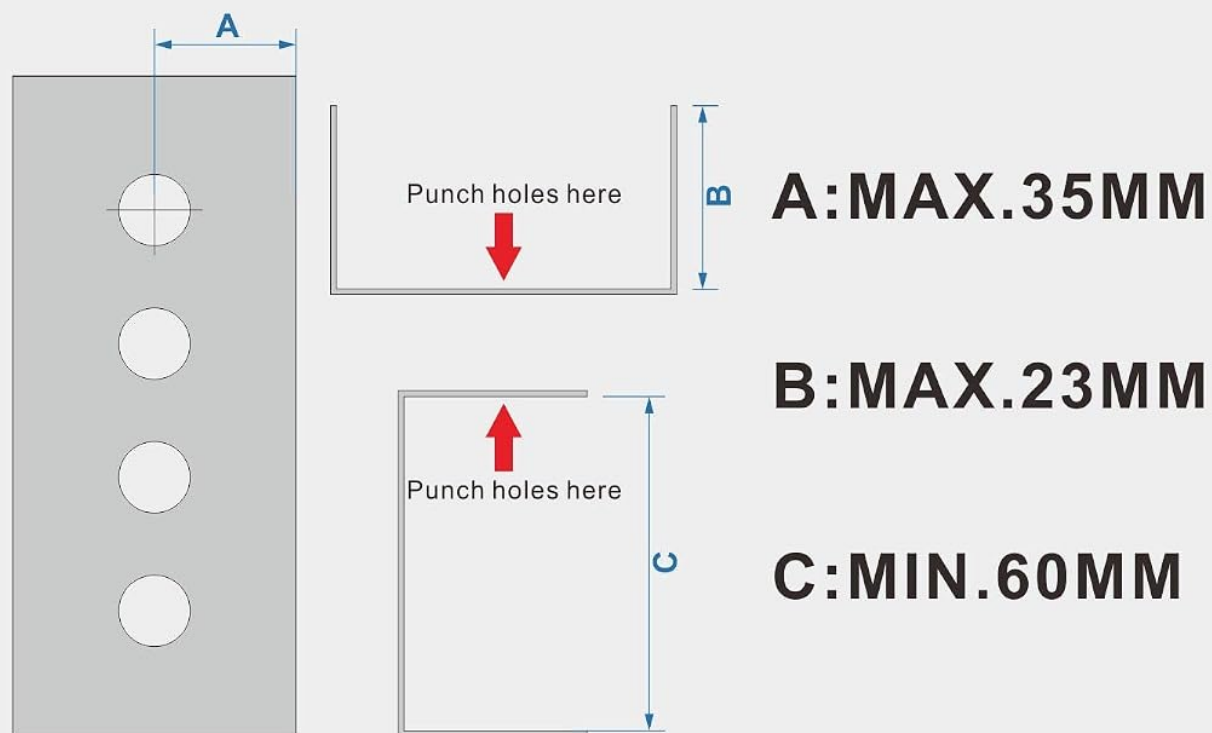


Image: All components included in the AMZCNC MHP-20 package, laid out for inspection.

5. SETUP

Follow these steps for initial setup of your hydraulic hole punch:

1. **Unpack:** Carefully remove all components from the carrying case.
2. **Inspect:** Check the tool and accessories for any signs of damage during shipping. Do not operate if damaged.
3. **Install Auxiliary Handle:** Attach the auxiliary handle to the designated port on the tool for improved grip and control during handheld operation.
4. **Install Base (for Vertical Mode):** If using the tool in vertical mode, attach the provided base plate securely to the bottom of the punch unit using the appropriate fasteners.
5. **Select and Install Die:** Choose the appropriate punching die size for your application. Insert the die into the tool according to the instructions in the Operating section.
6. **Power Connection:** Connect the power cord to a grounded 110V, 60Hz power outlet.

6. OPERATING INSTRUCTIONS

6.1 Working Modes

The AMZCNC MHP-20 supports two primary working modes:

- **Handheld Mode:** For flexible operation, hold the tool using the main handle and the auxiliary handle.
- **Vertical Mode:** For stable and precise punching, attach the base and place the tool on a stable surface.

Plug Format: US style with ground plug.



1. **Select Die:** Choose the correct punching die for the desired hole size. The tool comes with $\Phi 6.5\text{mm}$, $\Phi 9\text{mm}$, $\Phi 13\text{mm}$, $\Phi 17\text{mm}$, and $\Phi 20.5\text{mm}$ dies.

2. **Install Die:** Ensure the power is disconnected. Carefully install the selected die into the punch head. Refer to the tool's specific mechanism for die installation (usually involves securing with a wrench).
3. **Prepare Workpiece:** Mark the exact location for the hole on your material. Secure the material to prevent shifting during punching.
4. **Position Tool:** Place the punch head over the marked location. Ensure the material is properly seated against the punch and die.
5. **Lubricate:** Apply a small amount of lubricant (provided) to the punching area to reduce friction and extend die life.
6. **Punch:** Press the one-button start switch. The hydraulic mechanism will activate, punching the hole. The process typically takes 1-3 seconds.
7. **Release:** Once the punch is complete, release the switch. The punch will retract.
8. **Inspect:** Remove the workpiece and inspect the punched hole. The tool is designed to produce clean holes with no burrs.

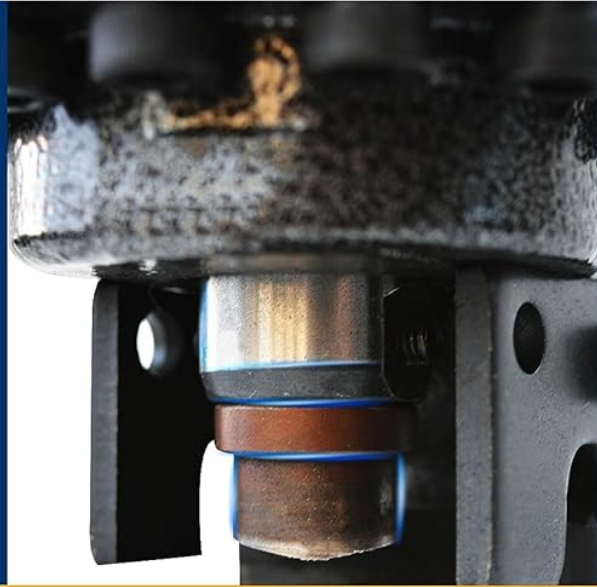
**Punching
Without Burr**



**Complete
punching once
in 2-3 seconds**

Image: A close-up view demonstrating the tool's ability to punch holes without leaving burrs on the material.

**Precision steel-
drill & efficient
punching**



**All copper
motor & strong
power**

Image: The tool in action, illustrating its rapid punching capability, completing a hole in 2-3 seconds.

6.3 Punching Capacity and Material Compatibility

The AMZCNC MHP-20 is suitable for various materials and thicknesses:

- **Iron/Steel Plate:** 5/64 Inch ~ 1/4 Inch (2mm ~ 6mm)
- **Copper/Aluminum Plate:** 5/64 Inch ~ 0.31 Inch (2mm ~ 8mm)
- **Angle Iron:** 5/64 Inch ~ 1/4 Inch (2mm ~ 6mm)

6.4 Depth Adjustment

The punching depth can be adjusted using the silver screw located below the punch head. The depth marked by the yellow line is variable, allowing adjustment up to a depth of 1.37 inches (35mm). The red line indicates the distance from the center hole of the upper mold to the edge of the head, which is 0.59 inches (15mm).



Image: A diagram showing the maximum punching depth (A: Max 35mm) and minimum edge distance (B: Max 23mm, C: Min 60mm) for accurate hole placement.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your AMZCNC MHP-20.

- **Cleaning:** After each use, clean the punch head and dies to remove any metal shavings or debris. Use a dry cloth or soft brush.
- **Lubrication:** Periodically apply a small amount of hydraulic oil or the provided lubricant to the moving parts of the punch mechanism and the dies to ensure smooth operation and prevent wear.
- **Die Inspection:** Regularly inspect punching dies for wear or damage. Replace worn dies to maintain punching quality and prevent damage to the tool.
- **Storage:** Store the tool in its original carrying case in a dry, clean, and secure location, away from direct sunlight and extreme temperatures.
- **Power Cord:** Check the power cord for cuts, abrasions, or other damage before each use. Do not use the tool with a damaged cord.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your hydraulic hole punch.

Problem	Possible Cause	Solution
Tool does not power on.	No power supply; damaged power cord; faulty switch.	Check power outlet and cord. Ensure switch is in 'on' position. If problem persists, contact support.
Punching is slow or weak.	Low hydraulic fluid; worn die; material too thick.	Check hydraulic fluid level (if accessible). Replace die. Verify material thickness is within specifications.
Holes are not clean or have burrs.	Worn or incorrect die; insufficient lubrication.	Replace die. Ensure proper die size for material. Apply lubricant before punching.
Punch gets stuck in material.	Material too thick; insufficient lubrication; dull die.	Ensure material is within capacity. Apply lubricant. Replace die if dull.

9. SPECIFICATIONS

Detailed technical specifications for the AMZCNC MHP-20 Electric Hydraulic Hole Punch:

PARAMETERS

PARAMETERS

Name	:	Hydraulic hole puncher
Output	:	10T
Punching speed	:	2-3s a hole
Voltage	:	110V
Power	:	1200W
Weight	:	18kg
Punching diameter	:	6.5/9/13/17/20.5 mm
Thickness of Iron / steel	:	≤8mm(0.31")
Thickness of copper / aluminum	:	≤6mm(0.23")



A=1.37"
B=0.90"
C=2.36"
D=0.59"



The depth marked by the **yellow line** is variable: it can be adjusted by the silverscrew below, up to a depth of **1.37"**. The **red line** means that the distance from the center hole of the upper mold to the edge of the head is **0.59"**.

Image: A visual representation of the key technical parameters of the hydraulic hole punch.

Parameter	Value
Model	MHP-20

Parameter	Value
Output	10T
Punching Speed	1-3 seconds per hole
Voltage	110V
Power	1200W (1.2 HP)
Frequency	60HZ
Current	11.5A
Weight	33.55 lbs (15.2 kg)
Punching Diameter	Φ6.5mm, Φ9mm, Φ13mm, Φ17mm, Φ20.5mm
Iron/Steel Plate Thickness	≤ 1/4 Inch (6mm)
Copper/Aluminum Plate Thickness	≤ 0.31 Inch (8mm)
Angle Iron Thickness	≤ 1/4 Inch (6mm)
Product Dimensions (L x W x H)	7.87" x 3.94" x 20.5"
Power Cord Length	10 FT
Plug Format	US style with ground plug
Material	Tool Steel

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact AMZCNC customer service through the retailer where the product was purchased or visit the official AMZCNC website. Please have your product model number (MHP-20) and purchase date available when contacting support.

SWITCHING THE WORKING MODE AT WILL

01



● Handheld

02



● Vertical

Image: A detailed view highlighting the precision steel-drill mechanism and the robust all-copper motor, indicative of durable construction.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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