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menglanchang Electric Hydraulic Hole Punch

menglanchang Electric Hydraulic Hole Punch User Manual

Model: Electric Hydraulic Hole Punch

1. Introduction

This manual provides essential information for the safe and effective operation, setup, and maintenance of your menglanchang Electric Hydraulic Hole Punch. Please read this manual thoroughly before operating the machine to ensure proper use 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 machine.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Do not operate the machine in damp or wet conditions. Keep the machine dry.
- Verify that the power supply voltage matches the machine's requirements (110V/220V).
- Keep hands and fingers clear of the punching head during operation.
- Secure the workpiece firmly before punching to prevent movement.
- Do not attempt to punch materials exceeding the specified thickness or type. This machine is*not* suitable for channel steel.
- Disconnect the power supply before performing any maintenance, changing dies, or when the machine is not in use.
- Do not modify the machine or its components. Use only genuine replacement parts.
- Keep children and unauthorized personnel away from the operating area.

3. Package Contents

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact your supplier immediately.

- 1 x Electric Hydraulic Hole Punch Machine
- 5 x Standard Punch Dies (Φ6.5mm, Φ9mm, Φ13mm, Φ17mm, Φ20.5mm)
- 1 x Auxiliary Handle
- 1 x Base
- 1 x Big Wrench
- 2 x Hexagon Wrenches
- 2 x Screws



Figure 3.1: The five standard punch dies included with the machine, ranging from Φ6.5mm to Φ20.5mm.

4. Specifications

The following table details the technical specifications of the Electric Hydraulic Hole Punch:

Parameter	Value
Power	1200W
Punching Speed	2-3 seconds per hole
Copper/Aluminum Plate Thickness Capacity	3-8mm
Iron/Steel Plate Thickness Capacity	3-6mm
Deep Throat	40mm
Standard Dies Included	Φ6.5mm, Φ9mm, Φ13mm, Φ17mm, Φ20.5mm
Net Weight	12 kg (26.4 lbs)
Machine Dimensions (L×W×H)	500 × 195 × 100 mm (19.7 × 7.7 × 3.9 inches)
Operation Mode	Electric/Electronic

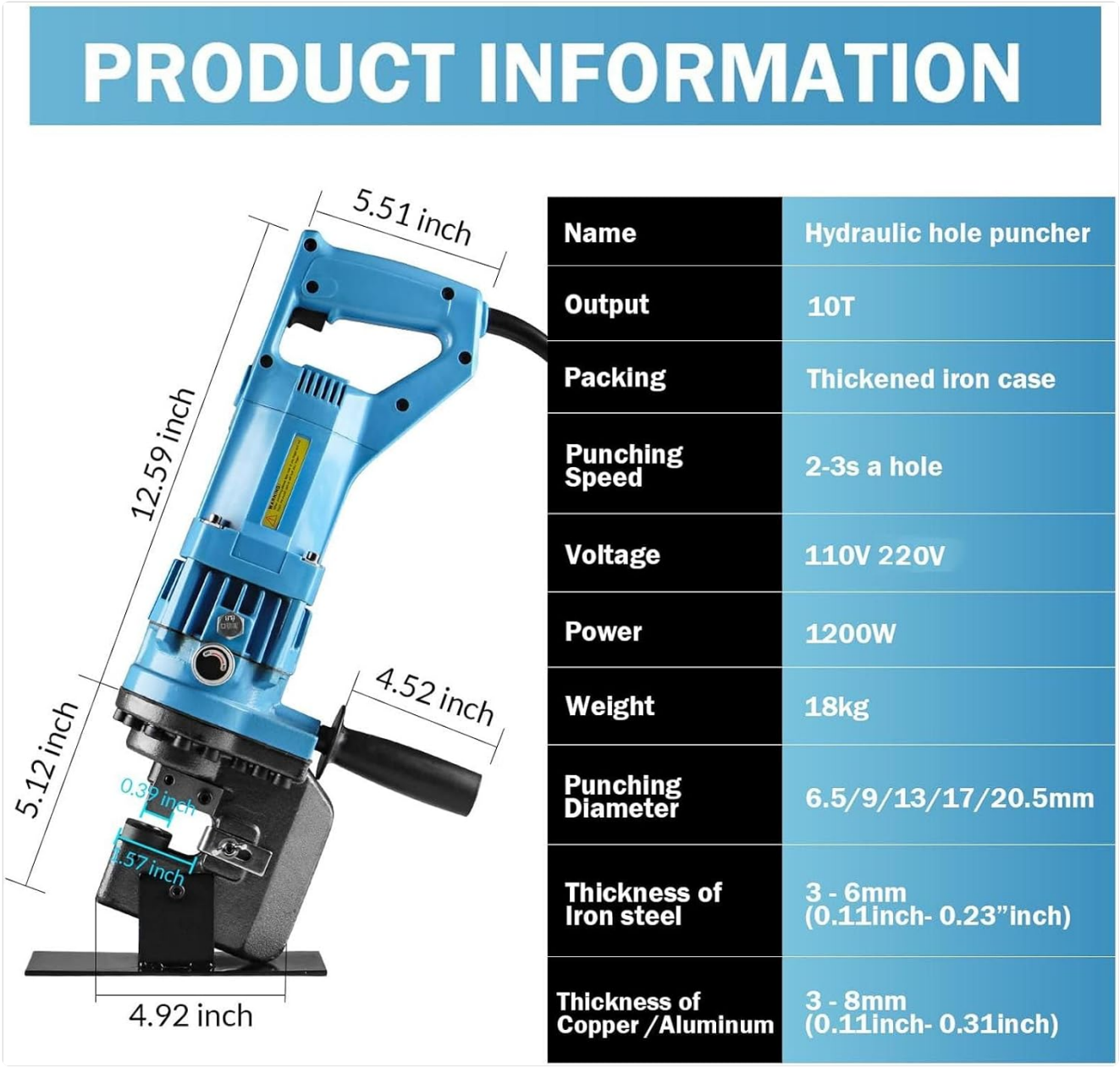


Figure 4.1: Visual representation of the product dimensions and key specifications.

5. Product Overview and Components

Familiarize yourself with the main components of the Electric Hydraulic Hole Punch before operation.



Figure 5.1: Key components include the Power Cable, Auxiliary Handle, Support Base, Punching Head, Oil Return Switch, and Power Switch.

- **Power Switch:** Activates and deactivates the machine.
- **Oil Return Switch:** Manually releases hydraulic pressure to retract the punch.
- **Punching Head:** The area where the dies are installed and punching occurs.
- **Auxiliary Handle:** Provides additional grip and control, especially for handheld operation.
- **Support Base:** Allows the machine to be fixed to a workbench for stable operation.
- **Power Cable:** Connects the machine to the electrical supply.



Figure 5.2: Detailed views of the durable power switch, precise punching mechanism, ergonomic auxiliary handle, and the manual oil return switch.

6. Setup

6.1 Attaching the Auxiliary Handle

1. Locate the auxiliary handle and the corresponding mounting point on the machine.
2. Insert the handle into the designated slot and tighten it securely using the provided hexagon wrench.

6.2 Installing Punch Dies

1. Ensure the machine is disconnected from the power supply.
2. Select the appropriate die size for your application.
3. Carefully insert the punch die into the punching head. Ensure it is seated correctly and securely.
4. Use the big wrench to tighten the die if necessary, ensuring it is firm but not overtightened.

6.3 Using the Support Base (Optional)

For stationary or repetitive punching tasks, the included base can be attached for increased stability.

1. Align the machine with the holes on the support base.
2. Secure the machine to the base using the provided screws and hexagon wrenches.
3. The base can then be clamped or bolted to a workbench for maximum stability.

7. Operating Instructions

7.1 Preparing for Punching

1. Ensure all safety precautions are observed.
2. Connect the power cable to a suitable electrical outlet.
3. Select and install the correct punch die for your material and desired hole size.
4. Mark the punching location on your workpiece.
5. Position the workpiece under the punching head, aligning the mark with the center of the die.

7.2 Punching Procedure

1. With the workpiece correctly positioned, firmly hold the machine (or ensure it is securely mounted).
2. Press the power switch to activate the punching mechanism. The punch will advance and create a hole in approximately 2-3 seconds.
3. Once the punch has completed its stroke and the hole is made, release the power switch.
4. If the punch does not retract automatically, or if you need to stop the punching process mid-stroke, use the manual oil return switch to retract the punch.
5. Carefully remove the punched workpiece.



Figure 7.1: The machine is designed for precise, burr-free punching with a powerful motor, completing holes in 2-3 seconds.

7.3 Material Compatibility

This hydraulic punch is suitable for various metal plates within specified thickness limits:

- **Copper Plate:** 3-8mm thickness
- **Aluminum Plate:** 3-8mm thickness
- **Iron Plate:** 3-6mm thickness
- **Steel Plate:** 3-6mm thickness
- **Angle Steel/Angle Iron:** 3-6mm thickness

Note: This machine is *not* designed for punching channel steel.



Figure 7.2: Examples of compatible materials for punching, including copper, aluminum, iron, angle iron, and steel plates.

8. Maintenance

Regular maintenance ensures the longevity and optimal performance of your hydraulic hole punch.

- **Cleaning:** After each use, clean the machine, especially the punching head and dies, to remove metal shavings and debris. Use a dry cloth or soft brush.
- **Die Inspection:** Regularly inspect punch dies for wear, damage, or dullness. Replace worn dies to maintain punching quality and prevent damage to the machine.
- **Hydraulic Oil:** Check the hydraulic oil level periodically. Refer to the manufacturer's recommendations for the correct type of hydraulic oil and refilling procedures. (*Specific instructions for checking/refilling hydraulic oil are not provided in the product description. Consult manufacturer if needed.*)
- **Storage:** Store the machine in a clean, dry place, away from direct sunlight and moisture, when not in use.

9. Troubleshooting

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

9.1 Machine Does Not Power On

- **Check Power Connection:** Ensure the power cable is securely plugged into both the machine and a functional electrical outlet.
- **Circuit Breaker:** Verify that the circuit breaker or fuse for the outlet has not tripped.
- **Power Switch:** Confirm the power switch on the machine is in the 'ON' position.

9.2 Punching is Slow or Incomplete

- **Material Thickness:** Ensure the material thickness does not exceed the machine's specifications.
- **Die Condition:** Inspect the punch die for wear or damage. A dull die can reduce punching efficiency. Replace if necessary.
- **Hydraulic Fluid Level:** Low hydraulic fluid can affect performance. Check the fluid level and refill if required.
- **Power Supply:** Ensure the machine is receiving adequate power.

9.3 Punch Does Not Retract

- **Oil Return Switch:** Activate the manual oil return switch to release hydraulic pressure and retract the punch.
- **Obstruction:** Check for any debris or obstruction preventing the punch from retracting.
- **Hydraulic System:** If the issue persists, there may be a problem with the hydraulic system. Contact customer support.

10. Warranty and Support

For warranty information, technical assistance, or to order replacement parts, please contact the manufacturer or your point of purchase. Keep your purchase receipt as proof of purchase.
Manufacturer: menglanchang

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