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› HayWHNKN Electric Profile Round Bending Machine RBM30HV User Manual

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Model: RBM30HV

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your HayWHNKN Electric Profile Round Bending Machine, model RBM30HV. This robust industrial machine is designed for precision bending of various metal profiles, including plates and T-shaped materials, utilizing a three-roller wheel structure.

Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent damage or injury.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating heavy machinery. Failure to follow these instructions may result in serious injury or damage to the equipment.

- **Read the Manual:** Ensure all operators have read and understood this manual before use.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and sturdy footwear. Avoid loose clothing or jewelry that could get caught in moving parts.
- **Power Disconnection:** Disconnect power before performing any maintenance, adjustments, or when the machine is not in use.
- **Stable Environment:** Operate the machine on a stable, level surface in a well-lit area. Keep the work area clean and free of obstructions.
- **Emergency Stop:** Familiarize yourself with the location and operation of the emergency stop switch.
- **Electrical Safety:** This machine requires 220V, 3-phase power and does not come with a plug. Professional electrical installation is required. Ensure proper grounding and wiring according to local electrical codes.
- **Moving Parts:** Keep hands and body clear of all moving rollers and bending areas during operation.
- **Material Handling:** Securely position workpieces before bending. Be aware of potential kickback or material movement.

- **Supervision:** Never leave the machine unattended while it is operating.

3. SETUP AND INSTALLATION

The RBM30HV bending machine is designed for both horizontal and vertical operation, offering flexibility for various applications.



Figure 3.1: HayWHNKN Electric Profile Round Bending Machine. A large, grey and white industrial machine designed for bending metal profiles, featuring three rollers and a separate foot pedal control unit.

3.1 Unpacking and Placement

- Carefully unpack the machine and inspect for any shipping damage.
- Place the machine on a solid, level floor capable of supporting its weight (Net weight: 453.05 LB / 205.5 kg).
- Ensure adequate clearance around the machine for material handling and safe operation.

3.2 Electrical Connection

Important: This machine requires a 220V, 3-phase power supply and does not come with a pre-installed plug. Electrical connection must be performed by a qualified electrician in accordance with all applicable local and national electrical codes.

- Verify the power supply matches the machine's requirements (220V, 3 Phase, 1.1KW).
- Ensure proper grounding of the machine.
- Connect the foot switch control unit to the main machine as per the wiring diagram (refer to included wiring diagram, if any).

4. OPERATING INSTRUCTIONS

The RBM30HV features a three-roller wheel structure with a movable upper axis for adjusting the bending diameter and a reversible foot switch for control.

4.1 Adjusting the Bending Arc

- The upper roller can be moved up and down to adjust the diameter of the workpiece being processed.
- Twist the adjusting rod (typically located at the top of the machine) to raise or lower the upper roll. This action directly changes the bending arc.
- Adjust the height of the upper roll according to the desired bend radius and material thickness.

4.2 Bending Operation

- Ensure the machine is powered on and the emergency stop is disengaged.
- Carefully feed the material (e.g., pipe, profile) between the rollers.
- Use the reversible movable foot switch to control the crimping process. Pressing one side will move the rollers in one direction, and the other side will reverse the direction.
- Continuously feed the material through the rollers while maintaining the desired bend.
- In case of an emergency, immediately press the emergency stop switch located on the control panel.

4.3 Operational Demonstration Video

Your browser does not support the video tag.

Video demonstrating the HayWHNKN Profile Section Round Bending Machine in operation, showing how it bends a metal pipe using its three rollers and adjustable upper roller.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your bending machine.

- **Cleaning:** Keep the machine clean, especially the rollers and bending area, free from metal shavings and debris.
- **Lubrication:** Periodically lubricate all moving parts and pivot points as indicated in the machine's lubrication points (if specified by manufacturer, otherwise general lubrication for moving parts).
- **Inspection:** Regularly inspect rollers for wear or damage. Check all bolts and fasteners for tightness.
- **Electrical Check:** Periodically inspect electrical cables and connections for signs of wear or damage.
- **Storage:** When not in use for extended periods, store the machine in a dry, clean environment.

6. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Machine does not power on	No power supply; Emergency stop engaged; Loose wiring.	Check power connection; Disengage emergency stop; Inspect wiring (by qualified electrician).
Rollers not moving	Motor issue; Foot switch malfunction; Overload.	Check motor connections; Test foot switch; Reduce material load.
Inconsistent bending	Incorrect roller adjustment; Worn rollers; Material inconsistency.	Re-adjust upper roller; Inspect and replace worn rollers; Ensure consistent material quality.

7. SPECIFICATIONS

Parameter	Value
Model	RBM30HV
Voltage	220V
Power	1.1KW
Phase Number	3
Operation	Horizontal or Vertical
Diameter of Roller	1.18" (30mm)
Spindle Speed	9 r/min
Net Weight	453.05 LB (205.5 kg)
Gross Weight	556.67 LB (252.5 kg)
Product Dimensions	41.7 x 25 x 41.7 inches
Color	Black
Included Components	Roll Bender *1

8. WARRANTY AND SUPPORT

For specific warranty information regarding your HayWHNKN Electric Profile Round Bending Machine RBM30HV, please refer to the documentation provided at the time of purchase or contact HayWHNKN directly. Keep your purchase receipt as proof of purchase.

For technical support, spare parts, or service inquiries, please contact the manufacturer or your authorized dealer. Provide your model number (RBM30HV) and serial number (if applicable) when seeking assistance.

