

User Manual for 45 Degree Plate Chamfering Machine

1. Introduction

The 45 Degree Plate Chamfering Machine is designed to create chamfers on metal plates, typically at a 45° angle. It is ideal for preparing edges for welding or for aesthetic purposes in fabrication.

2. Features

- Adjustable cutting depth and angle (45°).
 - Simple and intuitive control panel.
 - Robust motor for efficient cutting.
 - High precision for uniform chamfering.
 - Safety features including emergency stop and safety guards.
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3. Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
 - Ensure that the machine is grounded and the power supply is stable.
 - Do not bypass any safety guards or switches.
 - Keep the work area clean and dry.
 - Always turn off the machine and disconnect the power supply before performing maintenance or adjustments.
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4. Machine Setup

1. **Power Supply:** Connect the machine to the correct power source (check voltage requirements).
 2. **Workpiece Placement:** Place the metal plate securely on the work table, ensuring it is aligned with the machine's cutting path.
 3. **Adjust the Chamfer Angle:** Set the chamfer angle to 45° by adjusting the angle guide.
 4. **Set Cutting Depth:** Adjust the cutting depth using the depth control knob to the desired level.
 5. **Safety Guards:** Ensure that all safety covers and shields are in place before starting the machine.
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5. Operation Instructions

1. **Turn On:** Press the main power switch to turn on the machine.
 2. **Start Cutting:** Engage the feed mechanism and the cutting tool by pressing the start button.
 3. **Monitor Operation:** Ensure that the plate remains aligned and the machine operates smoothly.
 4. **Stop the Machine:** Once the chamfering process is complete, press the stop button to turn off the machine.
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6. Maintenance

- **Cleaning:** Regularly clean the machine after use, especially around the cutting area to prevent metal dust buildup.
 - **Lubrication:** Lubricate moving parts according to the manufacturer's recommendations.
 - **Blade Inspection:** Check the cutting blades for wear and tear. Replace them if they are dull or damaged.
 - **Regular Checkups:** Perform routine checks on the motor, bearings, and electrical components to ensure proper operation.
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7. Troubleshooting

- **Machine Not Starting:**
 - Check the power connection and ensure the emergency stop button is disengaged.
 - Check the fuses and circuit breakers.
 - **Inconsistent Chamfering:**
 - Ensure the workpiece is properly aligned.
 - Check the cutting depth settings and adjust if necessary.
 - **Excessive Vibration:**
 - Ensure that all parts are properly tightened.
 - Inspect the motor and bearings for damage.
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8. Technical Specifications

- **Motor Power:** 1 hp
 - **Chamfering Angle:** 15 to 45°
 - **Min Plate Thickness:** 10 mm
 - **Max Plate Width:** 500 mm
 - **Voltage:** 440 v
 - **Weight:** 50 kg
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9. Contact Information

For further assistance, spare parts, or troubleshooting:

- **Manufacturer Name: Shree tech SPM Industries**
 - **Phone Number: 9922901049**
 - **Email Address: shreetechspm@gmail.com**
 - **Website: www.shreetechspmindustries.com**
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