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› TECHTONGDA Rebar Bender Steel Bar Hoop Bending Machine L021567 User Manual

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Model: L021567

1. IMPORTANT SAFETY INSTRUCTIONS

Read and understand all safety instructions before operating the TECHTONGDA Rebar Bender. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

1.1 General Safety

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and steel-toed boots.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Keep hands and loose clothing away from moving parts during operation.
- Do not operate the machine if you are fatigued or under the influence of drugs or alcohol.
- Only trained and authorized personnel should operate this equipment.

1.2 Electrical Safety

- The machine requires a 220V power supply. Ensure your electrical system can support the 4KW motor and 19.2A rated current.
- **No plug is included.** It is recommended to connect the machine directly to your facility's circuit breaker box by a qualified electrician.
- Ensure all electrical connections are secure and properly grounded.
- Never operate the machine with damaged power cords or electrical components.



Figure 1: Rear view of the machine with a visible warning label, emphasizing safety precautions.

2. PRODUCT OVERVIEW

The TECHTONGDA Rebar Bender is an electric steel bar bending machine designed for forming steel bar hoops. It is primarily used in construction sites to bend straight steel bars into various angles, improving efficiency and precision in rebar fabrication.

2.1 Key Features

- **Powerful Motor:** Equipped with a 220V, 4KW pure copper motor for efficient operation.
- **Adjustable Bending Angle:** Capable of bending steel bars to any angle between 0° and 180°.
- **Foot Pedal Control:** Features two foot pedals for convenient and precise angle control.
- **Robust Construction:** Made with a thickened steel plate body for durability.
- **Portability:** Includes four wheels at the bottom for easy transportation around the job site.
- **Capacity:** Designed for bending steel bars with a diameter of 18-22mm.



Figure 2: Front view of the TECHTONGDA Rebar Bender, showcasing its robust design and control panel.



Figure 3: Labeled diagram of the rebar bender, identifying components such as the working disc, baffle, stand column, CNC operating panel, switch, foot switch, moving wheels, and thickened board.

3. SETUP AND INSTALLATION

3.1 Unpacking and Placement

1. Carefully unpack the rebar bending machine from its packaging.
2. Due to its weight (approximately 326 pounds), ensure adequate lifting equipment or personnel are available for safe handling.
3. Position the machine on a stable, level surface in your designated work area. The integrated moving wheels facilitate transportation.

3.2 Electrical Connection

As previously noted, the machine does not come with a power plug. Professional installation by a qualified electrician is required to ensure safe and correct operation.

1. Ensure the main power supply to the installation area is turned off at the circuit breaker.
2. Connect the machine's power cables directly to a dedicated 220V circuit breaker with sufficient capacity (minimum 19.2A, recommended higher for safety margin).
3. Verify all connections are tight and properly insulated.
4. Once connected, turn on the main power supply and proceed to initial testing.



***No plug is included.
It is recommended to connect the machine
to your home's circuit breaker box.***

Figure 4: Side view illustrating the electrical connection point and the important note regarding direct wiring to a circuit breaker.

4. OPERATION

4.1 Powering On/Off

1. Ensure the machine is properly connected to the power supply.
2. Locate the main power switch on the control panel (refer to Figure 3).
3. Press the green 'ON' button to power on the machine. The CNC operating panel displays should illuminate.
4. To power off, press the red 'OFF' button.

4.2 Setting Bending Angles

The machine allows for bending angles between 0° and 180°. The CNC operating panel (Figure 5) features controls for setting two distinct angles, which correspond to the two foot pedals.

1. Use the '+' and '-' buttons on the CNC panel to set the desired angle for each foot pedal (e.g., one for 90°, another for 135° or 180°).
2. The digital displays will show the currently set angles.

0-180° ADJUSTABLE

Precise Angle, easy adjustment

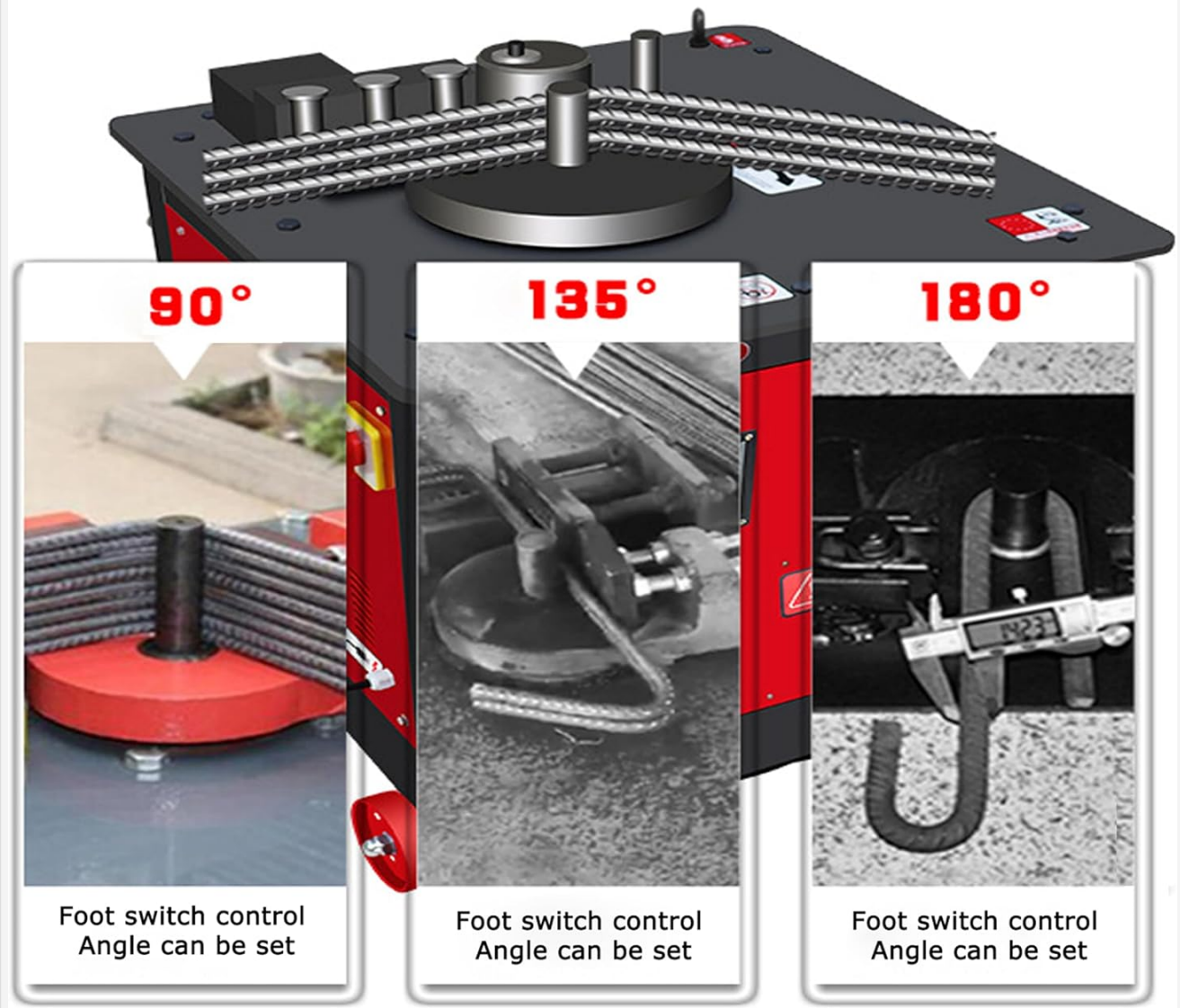


Figure 5: The CNC operating panel with digital displays for angle settings and the two foot pedals for activation.

4.3 Loading and Bending Steel Bars

The machine is designed to bend $\Phi 18-22\text{mm}$ steel bars, one bar at a time.

1. Ensure the bending mechanism is clear of any debris.
2. Adjust the spacing of the bending components according to the diameter of the steel bar to be bent. This ensures proper grip and accurate bending (refer to Figure 6).
3. Place one steel bar onto the working disc, ensuring it is securely positioned against the baffle and stand column.
4. Press the corresponding foot pedal for the desired bending angle. The machine will initiate the bending process.

5. Once the bending is complete, release the foot pedal. The bending arm will return to its home position.
6. Carefully remove the bent steel bar.



Figure 6: Close-up of the bending mechanism, highlighting the adjustable components for accommodating different rebar thicknesses.



Figure 7: Examples of steel bars bent to 90°, 135°, and 180°, demonstrating the machine's angle capabilities controlled via foot pedals.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your TECHTONGDA Rebar Bender.

5.1 Daily Maintenance

- Clean the working disc and bending components of any rebar fragments or dust after each use.
- Inspect the power cord for any signs of damage.

5.2 Weekly Maintenance

- Check all bolts and fasteners for tightness and secure them if necessary.
- Inspect the moving parts for wear and tear.

- Apply a light coat of lubricant to moving joints and pivot points as recommended by general industrial machinery practices. Avoid over-lubrication.

5.3 Long-Term Storage

- If storing the machine for an extended period, ensure it is thoroughly cleaned and all metal surfaces are protected with a rust-inhibiting agent.
- Store in a dry, covered area to prevent corrosion.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your rebar bending machine.

6.1 Machine Does Not Power On

- **Check Power Supply:** Ensure the machine is properly connected to a 220V power source and the circuit breaker is not tripped.
- **Main Switch:** Verify the main power switch on the control panel is in the 'ON' position.
- **Internal Wiring:** If the above steps do not resolve the issue, consult a qualified electrician to inspect internal wiring.

6.2 Motor Runs But No Bending Action

- **Foot Pedal Activation:** Ensure the foot pedal is fully depressed.
- **Angle Settings:** Check the CNC panel to ensure a valid bending angle is set.
- **Mechanical Obstruction:** Inspect the bending mechanism for any foreign objects or debris that might be preventing movement.

6.3 Inaccurate Bending Angles

- **Rebar Diameter:** Ensure the steel bar diameter is within the specified range (Φ18-22mm).
- **Component Adjustment:** Verify that the bending components are correctly adjusted for the rebar thickness.
- **Calibration:** If persistent inaccuracies occur, the machine may require recalibration by a service technician.

7. SPECIFICATIONS

Parameter	Value
Brand	TECHTONGDA
Model Number	L021567
Voltage	220V
Motor Power	4KW
Motor Speed	1440 rpm
Rated Current	19.2A
Bending Steel Bar Diameter	Φ18-22mm
Bending Speed	25-30 times/minute

Parameter	Value
Item Weight	326 pounds
Package Dimensions	43 x 37 x 28 inches



Figure 8: Dimensional drawing of the rebar bender, indicating its height, width, and depth.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact TECHTONGDA customer service. Refer to your purchase documentation for specific contact details or visit the official TECHTONGDA website.

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