RBAYSALE TS500

RBAYSALE TS500 Benchtop Edge Bander User Manual

Model: TS500
Brand: RBAYSALE

1. Introduction

This user manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of the RBAYSALE TS500 Benchtop Edge Bander. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent damage or injury.
The RBAYSALE TS500 is an automatic belt edge banding machine designed for woodworking applications, featuring double-sided glue application and adjustable speed for various work needs. It is suitable for medium and low-temperature hot-melt adhesives.

2. Product Features

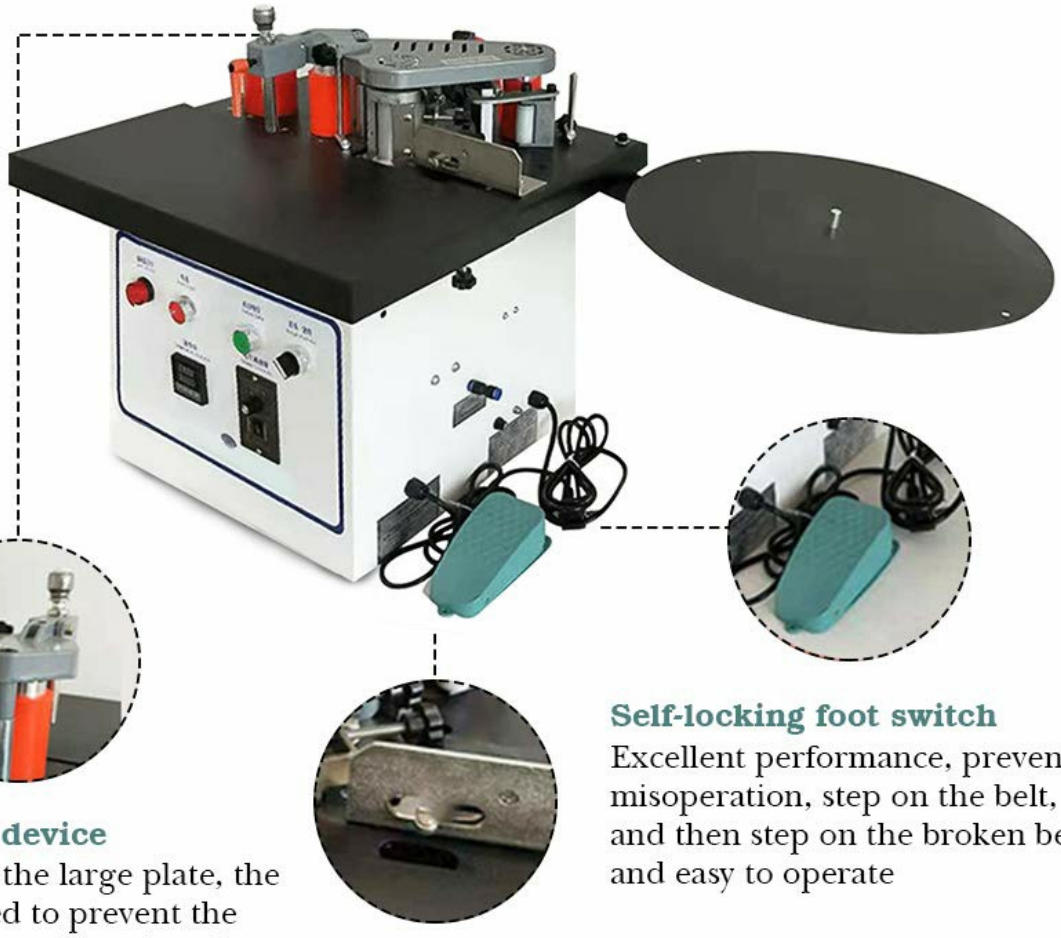
The TS500 Benchtop Edge Bander incorporates several key features designed for efficiency and durability:

- **Motor Protection System:** The motor is equipped with an automatic protection system that breaks the belt if the glue temperature is too low, extending motor lifespan.
- **Automatic Double-Sided Glue Application:** Ensures strong and consistent bonding.
- **Automatic Banding Material Cut:** Requires connection to an air pump for this function.
- **Adjustable Speed:** Allows for customization based on material and project requirements.
- **Micro Switch and Self-Locking Foot Switch:** Facilitates efficient cutting of linear or curved edge banding material.
- **Material Fixation Device:** A professional device to press and fix large plate materials, preventing sagging and ensuring quality edge banding.
- **Increased Glue Pot Capacity:** 800ml super large capacity glue pot reduces the frequency of refilling, improving work efficiency.
- **Efficient Heating System:** Features 5 heating pipes for faster and more even glue heating.
- **High-Quality Components:** Includes a robust cylinder for strength and accuracy, and a high-quality quenched

knife for strong cutting force.



Figure 2.1: Overview of the RBAYSALE TS500 Benchtop Edge Bander, showcasing its compact design and main components.

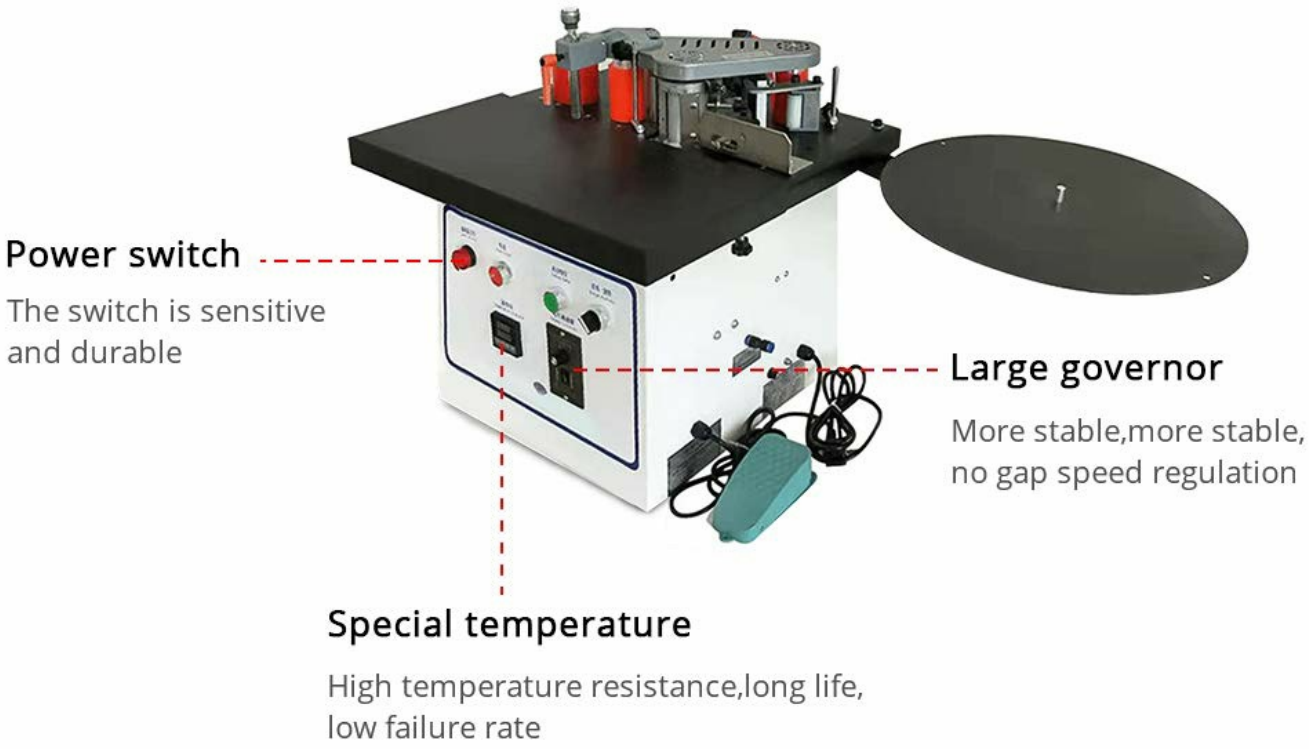


Pressurized device
When sealing the large plate, the plate is pressed to prevent the suspended part of the plate from sagging, which affects the quality and speed of sealing

Self-locking foot switch
Excellent performance, prevent misoperation, step on the belt, and then step on the broken belt, and easy to operate

Break the band micro switch
Sealing straight line special switch, characteristic: sensitive operation is convenient, raise working efficiency

Figure 2.2: Close-up view highlighting the self-locking foot switch, break band micro switch, and the pressurized device for material fixation.



- 1. Double glue coating, more firm;
- 2. Increased glue pot, intelligent temperature control, high efficiency and convenience, bass edge sealing, bending and straightening;
- 3. Professional design of pressing device. When sealing large plates, press the plate to prevent the suspended part of the plate from sagging, affecting the quality and speed of sealing
- 4. Increase the cylinder: powerful, accurate and agile, long service life;

Figure 2.3: Illustration of the power switch, large governor for speed regulation, and the special temperature control system within the machine.



Figure 2.4: Detailed view showing the robust cylinder and the high-quality knife, essential for precise edge banding and cutting.

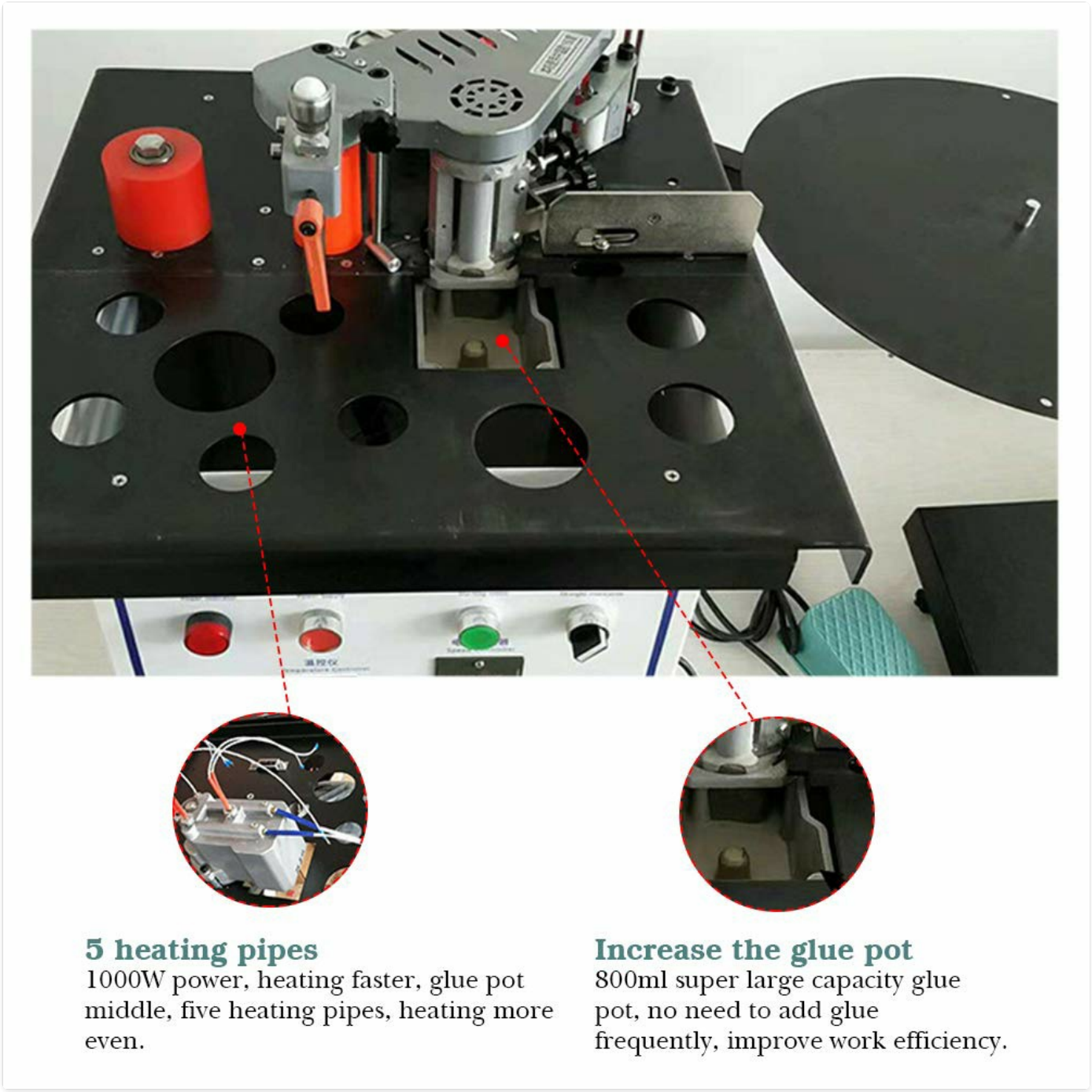


Figure 2.5: View of the five heating pipes and the large capacity glue pot, designed for efficient and consistent glue application.

3. Safety Information

Always prioritize safety when operating any power tool. Failure to follow safety instructions can result in serious injury or damage to the machine.

- Read and understand all instructions before use.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Keep children and bystanders away from the operating machine.
- Do not operate the machine in damp or wet conditions.
- Always disconnect power before performing maintenance or adjustments.
- Use only recommended hot-melt adhesives.

- Ensure proper ventilation when working with hot glue.
- Connect the machine to a grounded power outlet.
- Do not force the machine; let the tool do the work.

4. Setup

Proper setup is crucial for optimal performance and safety.

1. **Unpacking:** Carefully remove the edge bander from its packaging. Inspect for any shipping damage. Retain packaging for future transport or storage.
2. **Placement:** Place the machine on a stable, level workbench capable of supporting its weight (approximately 30KG). Ensure adequate space around the machine for material handling and operation.
3. **Power Connection:** Connect the machine to a suitable AC power source as specified in the electrical requirements section. Ensure the power switch is in the "OFF" position before plugging in.
4. **Air Pump Connection:** For automatic banding material cutting, connect an external air pump to the designated air inlet on the machine. Ensure the air pressure is within the recommended range.
5. **Glue Loading:** Open the glue pot cover and fill with appropriate medium to low-temperature hot-melt adhesive. Do not overfill.
6. **Edge Banding Material Loading:** Load the edge banding material onto the designated spool or feeder mechanism. Ensure it feeds smoothly without kinks or obstructions.

5. Operating Instructions

Follow these steps for effective operation of the TS500 Edge Bander:

1. **Power On:** Turn the main power switch to the "ON" position.
2. **Preheating:** Allow the machine to preheat. The heating time is approximately 5-8 minutes. The machine will indicate when the glue has reached the optimal temperature.
3. **Adjust Speed:** Use the adjustable speed control (large governor) to set the desired edge sealing speed, ranging from 0 to 6 meters per minute.
4. **Material Feeding:**
    - For straight edges: Guide the workpiece smoothly along the guide fence.
    - For curved edges: Carefully maneuver the workpiece to follow the curve, utilizing the machine's flexibility for curved edge banding.
5. **Edge Banding Application:** As the workpiece passes through, the machine will automatically apply double-sided glue and press the edge banding material firmly onto the edge.
6. **Cutting:** Use the self-locking foot switch or the micro switch to activate the automatic cutting mechanism for the edge banding material. Ensure the air pump is connected and active for this function.
7. **Material Fixation (for large plates):** For larger workpieces, utilize the material fixation device to press and secure the plate, preventing sagging and ensuring a consistent bond.
8. **Monitoring:** Continuously monitor the glue level and the quality of the edge banding. Refill glue as needed.
9. **Power Off:** Once finished, turn the main power switch to the "OFF" position. Allow the machine to cool down before cleaning or storage.

Note: This edge bander does not have a trimming function and is not suitable for pre-glued banding materials.

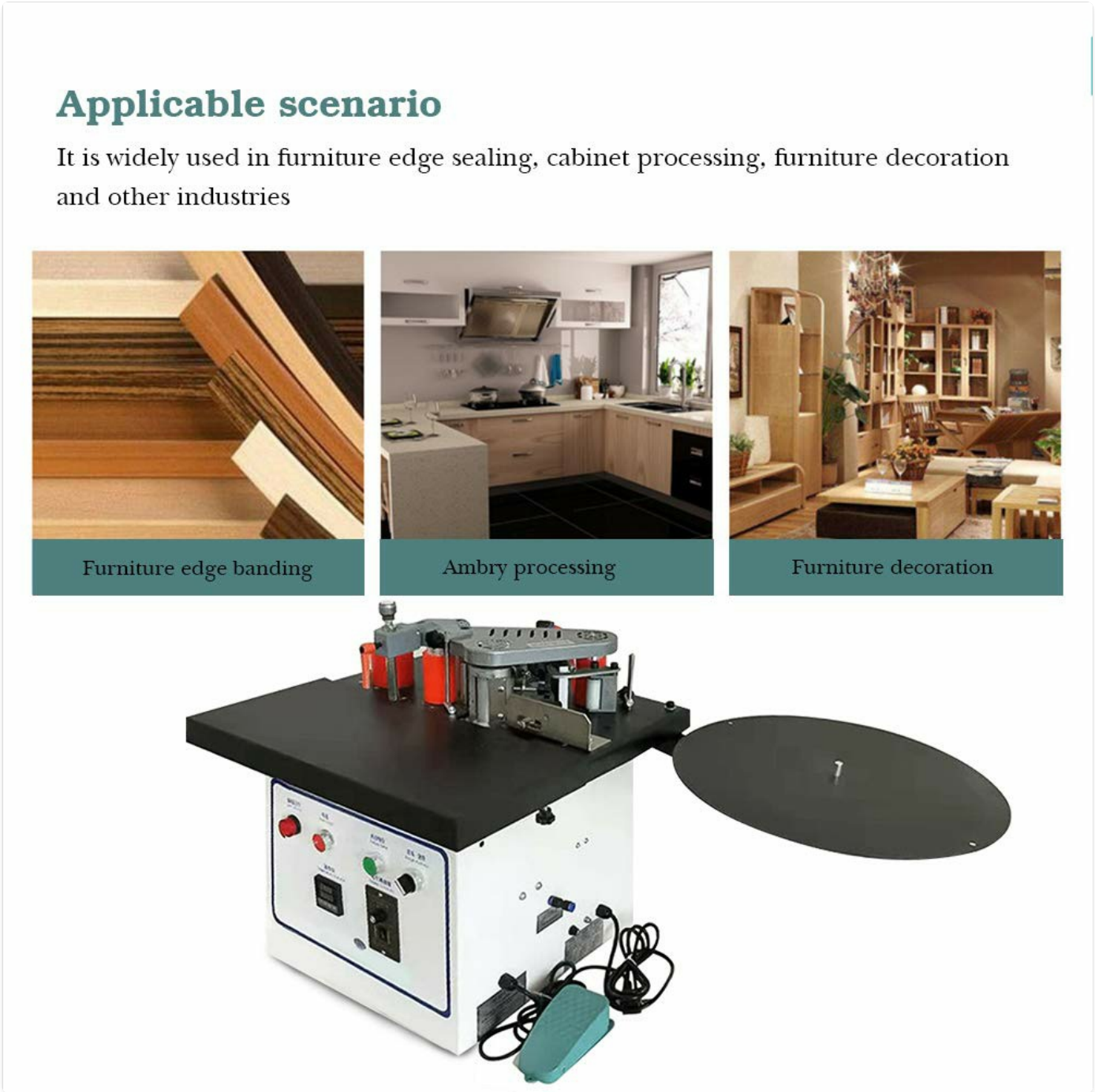


Figure 5.1: Examples of applications for the TS500 edge bander, including furniture edge banding, cabinet processing, and furniture decoration.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your edge bander.

- **Cleaning:** After each use, clean any excess glue from the machine's surfaces, especially around the glue pot and application rollers. Use appropriate cleaning agents for hot-melt adhesive residue.
- **Glue Pot Maintenance:** Periodically inspect the glue pot for hardened glue or debris. Clean as necessary to ensure smooth glue flow and consistent heating.
- **Roller Inspection:** Check the condition of the pressure rollers and glue application rollers. Ensure they are clean and free from damage.
- **Blade Inspection:** Inspect the cutting blade for sharpness and damage. Replace if dull or chipped.
- **Lubrication:** Refer to the machine's specific lubrication points (if any) and apply appropriate lubricants as

recommended.

- **Electrical Check:** Regularly inspect the power cord and plug for any signs of damage. Do not use the machine if the cord is damaged.
- **Storage:** Store the machine in a dry, clean environment when not in use.

7. Troubleshooting

This section addresses common issues you might encounter with the TS500 Edge Bander.

Problem	Possible Cause	Solution
Machine does not power on.	No power supply; faulty power cord; tripped circuit breaker.	Check power connection; inspect power cord; reset circuit breaker.
Glue not melting or heating slowly.	Insufficient preheating time; low temperature setting; faulty heating element.	Allow full preheating time (5-8 min); ensure correct temperature setting; contact support if heating element is suspected.
Edge banding not adhering properly.	Incorrect glue temperature; insufficient glue application; material not pressed firmly.	Verify glue temperature; check glue rollers for blockages; ensure material fixation device is used for large pieces.
Automatic cutting not working.	Air pump not connected or insufficient pressure; faulty micro switch/foot switch.	Connect and check air pump pressure; inspect switches for proper function.
Motor stops during operation.	Glue temperature too low (motor protection activated).	Allow glue to reach optimal temperature before resuming operation.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact RBAYSALE customer support.

8. Specifications

Technical specifications for the RBAYSALE TS500 Benchtop Edge Bander:

Parameter	Value
Model	TS500
Brand	RBAYSALE
Rated Power	850W (Heating: 1000W, 5 heating pipes)
Power Source	AC
Net Weight	Approx. 30KG
Dimensions (L x W x H)	Approx. 50cm x 50cm x 54cm (19.6in x 19.6in x 21.2in)
Glue Capacity	800ML
Heating Time	5-8 minutes

Parameter	Value
Edge Sealing Speed	0-6m/min (Stepless electronic speed regulation)
Edge Plate Shape	Curve, Straight Line
Gluing Method	Double-sided gluing
Tape Breaking Mode	Automatic tape breaking (requires air pump)
Recommended Adhesive	Medium and low-temperature hot-melt adhesive

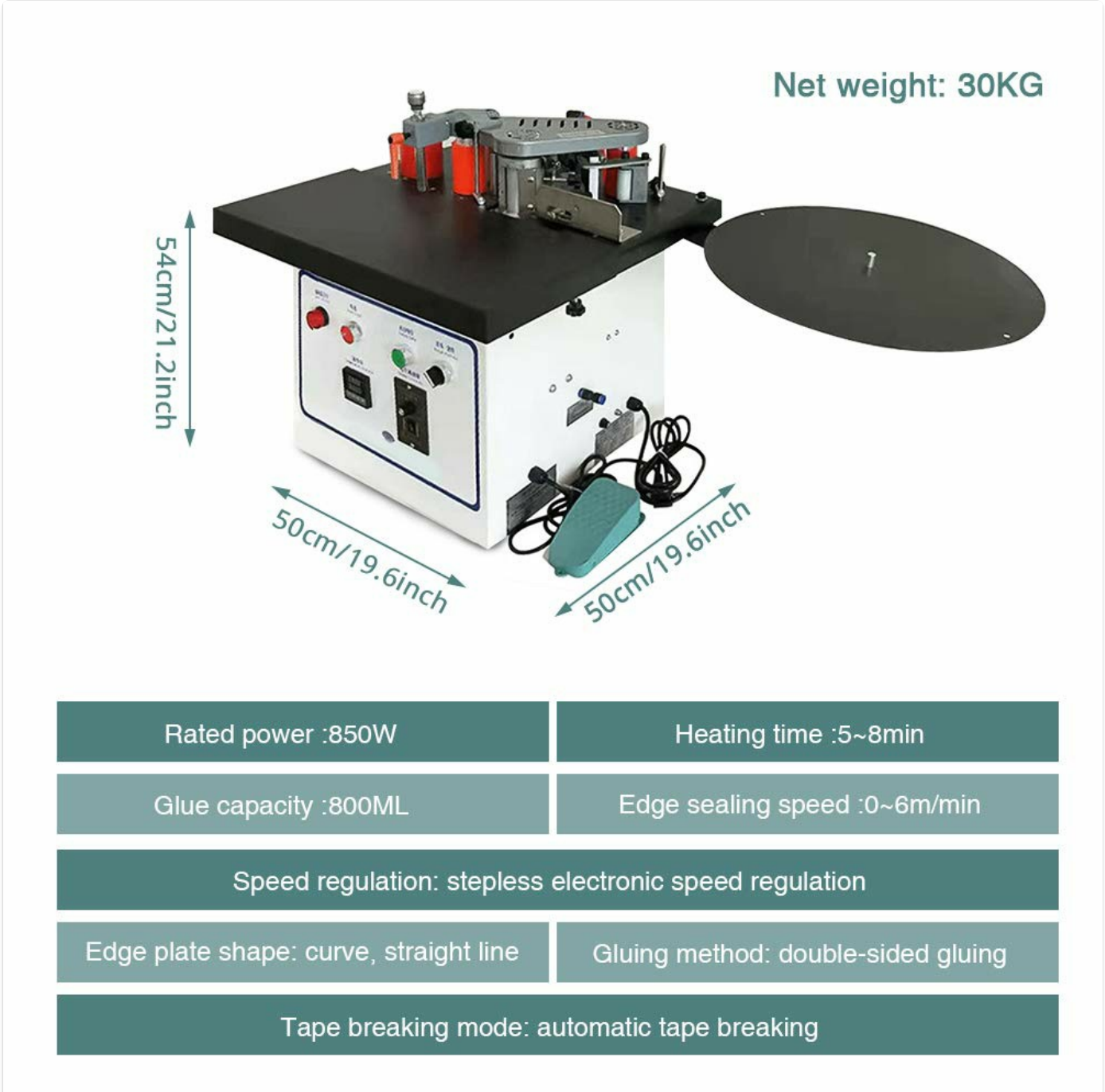


Figure 8.1: Visual representation of the TS500 dimensions and a summary of its key technical specifications.

9. Warranty and Support

For warranty information, technical support, or spare parts, please contact RBAYSALE customer service. Keep your purchase receipt as proof of purchase for warranty claims.
Contact information can typically be found on the product packaging or the official RBAYSALE website.

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