

holzstar BTS 150

Holzstar BTS 150 Belt and Disc Sander Instruction Manual

Model: BTS 150 (5904150)

1. IMPORTANT SAFETY INSTRUCTIONS

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the sander. Wear a dust mask in dusty conditions. Do not overreach. Keep proper footing and balance at all times.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Dust Extraction:** This sander features an integrated suction nozzle. Always connect an external dust extraction unit to minimize dust exposure and maintain a clear work area.

2. PRODUCT OVERVIEW

The Holzstar BTS 150 is a versatile belt and disc sander designed for various materials and shapes. Its robust construction ensures stability and precision for woodworking tasks.

Key Features:

- Torsion-free machine housing constructed from steel and grey cast iron.
- Continuously swiveling abrasive belt from 0° to 90° for horizontal or vertical use.
- Double-guided, continuously swiveling work table from 0° to 45°.
- Quick and tool-free abrasive belt change via a rapid clamping device.

- Integrated suction nozzle for connection to an external dust extraction unit.



Image 2.1: The Holzstar BTS 150 Belt and Disc Sander in operation, showing a workpiece being sanded on the disc, with a dust extraction hose connected.

3. SETUP

3.1 Unpacking and Placement

- Carefully remove the sander from its packaging. Inspect for any shipping damage.
- Place the sander on a stable, level workbench. Ensure adequate space around the machine for safe operation and material handling.
- Secure the machine to the workbench if possible, to prevent movement during operation.

3.2 Connecting Dust Extraction

- Connect an external dust extraction unit to the integrated suction nozzle (58 mm diameter).
- Ensure the connection is secure to effectively collect sanding dust.

3.3 Power Connection

- Ensure the power switch is in the 'OFF' position before plugging in the machine.
- Connect the power cord to a grounded 230V, 50Hz electrical outlet.



Image 3.1: The Holzstar BTS 150 with a miter gauge attached to the work table, demonstrating its readiness for precise angle sanding.

4. OPERATING INSTRUCTIONS

4.1 General Operation

- Before starting, ensure all adjustments are secure and the work area is clear.
- Turn on the dust extraction unit before starting the sander.
- Use the power switch to turn the sander ON (I) and OFF (O).
- Always hold the workpiece firmly against the work table or belt.
- Apply light, even pressure. Excessive pressure can overload the motor and reduce sanding efficiency.

4.2 Using the Belt Sander

- The abrasive belt can be used horizontally or vertically. To adjust the angle, loosen the locking mechanism and pivot the belt assembly to the desired position (0° to 90°). Securely tighten the lock.
- For edge sanding, use the belt in the vertical position. For surface sanding, the horizontal position is often preferred.
- The included abrasive belt has a grit of 60.



Image 4.1: The Holzstar BTS 150 with the abrasive belt positioned vertically, ready for edge sanding.



Image 4.2: A user sanding a wooden board on the vertically oriented abrasive belt, demonstrating typical operation.



Image 4.3: A user sanding a wooden board on the horizontally oriented abrasive belt, suitable for surface finishing.

4.3 Using the Disc Sander

- The work table can be tilted continuously from 0° to 45°. Loosen the locking knob beneath the table, adjust to the desired angle, and re-tighten.
- Use the miter gauge (if included) for precise angle sanding on the disc.
- The included abrasive disc has a grit of 80 and is pre-glued. For replacement, a hook-and-loop fastening system is recommended (not included).

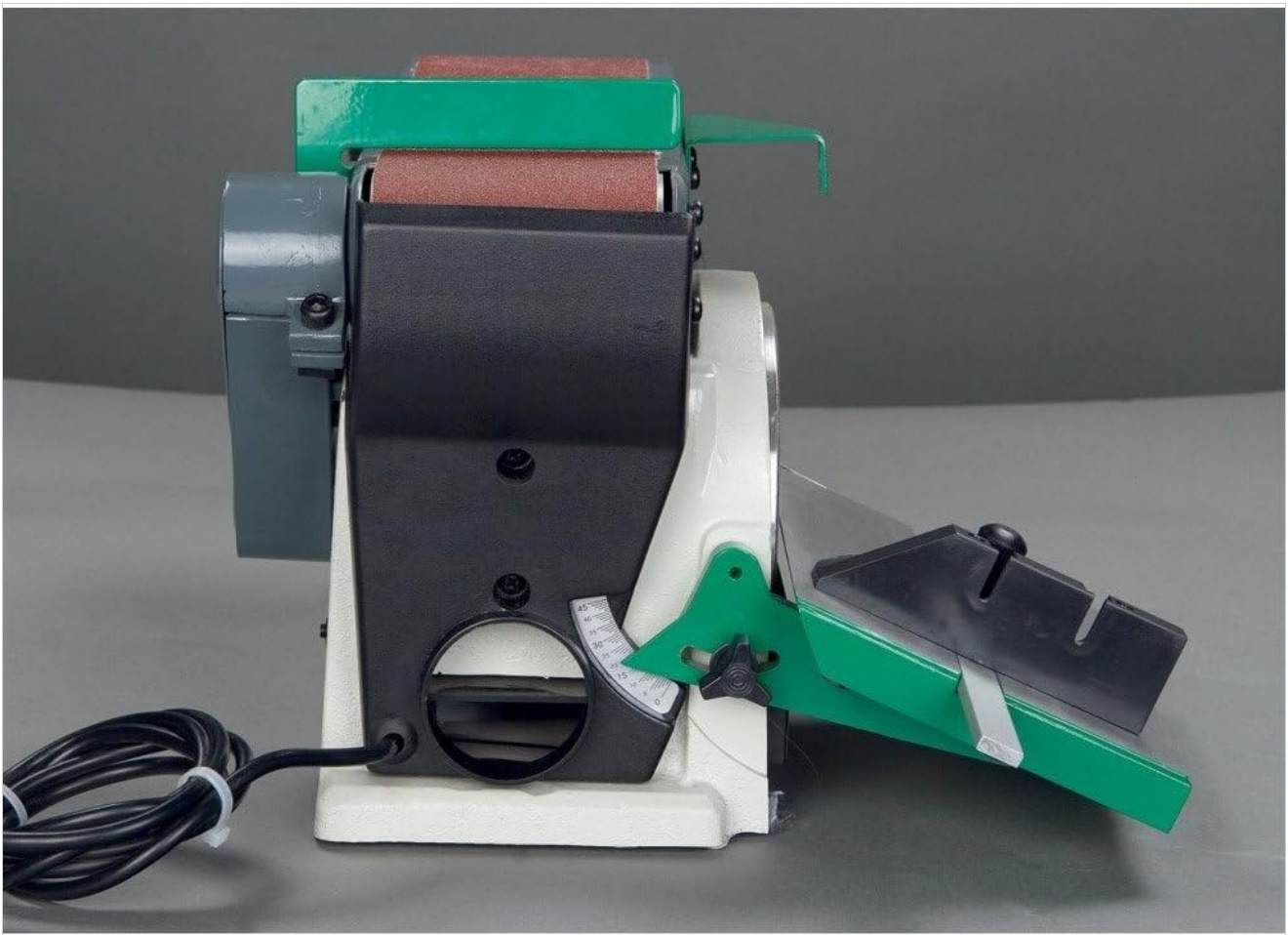


Image 4.4: Side view of the sander, highlighting the angle adjustment mechanism for the work table and belt assembly.

5. MAINTENANCE

5.1 Cleaning

- Always disconnect the power plug before cleaning.
- Regularly clean the machine, especially the dust extraction ports and internal areas, to prevent dust buildup. Dust accumulation can affect performance and safety.
- Use compressed air or a brush to remove dust from the motor vents and moving parts.

5.2 Changing Abrasive Belt

- Ensure the machine is unplugged.
- Utilize the rapid clamping device for quick and tool-free belt changes. Follow the directional arrows on the machine for correct belt installation.

5.3 Changing Abrasive Disc

- Ensure the machine is unplugged.
- The original disc is glued. For replacement, it is recommended to use abrasive discs with a hook-and-loop fastening system (requires a separate hook-and-loop attachment, not included).

5.4 General Inspection

- Periodically check all screws and fasteners for tightness.
- Inspect the power cord for damage. Replace immediately if damaged.
- Ensure all guards and safety features are in place and functioning correctly.

6. TROUBLESHOOTING

- **Machine does not start:** Check power connection. Ensure the power switch is fully engaged. Check for tripped circuit breakers.
- **Motor stops under moderate pressure:** The motor (250W) has a specific power limit. Reduce workpiece pressure. Ensure the abrasive belt/disc is not worn out, as this increases resistance.
- **Excessive dust:** Ensure the external dust extraction unit is properly connected and functioning. Clean the internal dust channels of the sander.
- **Sander vibrates excessively:** Check if the machine is securely mounted. Inspect abrasive belt/disc for damage or improper installation.
- **Switch failure:** If the power switch becomes faulty, discontinue use immediately and contact qualified service personnel for repair or replacement.

7. SPECIFICATIONS

Specification	Value
Model Number	5904150
Dimensions (L x W x H)	56 x 27 x 30 cm
Weight	17 kg (approx. 37.48 lbs)
Power	0.4 kW (250 Watts)
Voltage	230 V
Frequency	50 Hz
Amperage	1.09 A
Abrasive Belt Length	915 mm
Abrasive Belt Width	100 mm
Sanding Disc Diameter	150 mm
Suction Nozzle Diameter	58 mm
Work Table Length	230 mm
Work Table Width	150 mm
Max Rotation Speed	10000 rpm (for disc)

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Please refer to your purchase documentation, receipt, or the product packaging for specific warranty terms and conditions. Warranty periods and coverage may vary by region and retailer.

8.2 Customer Support

For technical assistance, spare parts, or service inquiries, please contact your authorized Holzstar retailer or the manufacturer's customer service department. Contact information can typically be found on the product packaging or the manufacturer's official website.