



[Manuals.plus](#) /

› [Starrett](#) /

› [Starrett ST-1101 Band Saw Machine User Manual](#)

Starrett ST-1101

Starrett ST-1101 Band Saw Machine User Manual

Model: S1101-F1

[Contents](#) [Setup](#) [Operation](#) [Introduction](#) [Maintenance](#) [Safety Instructions](#) [Troubleshooting](#) [Package](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

The Starrett ST-1101 Band Saw Machine (Model S1101-F1) is designed for precision cutting tasks in maintenance workshops, metalworking shops, and locksmiths. Its compact dimensions and low weight facilitate easy and safe transport. This versatile machine offers angle cutting capabilities from 0° to +45°, making it suitable for various applications. Key features include three adjustable cutting pressures, automatic shut-off upon cut completion, and a bow locking device for transport.



Figure 1: Starrett ST-1101 Band Saw Machine. This image shows the complete band saw unit, highlighting its compact design and robust construction, suitable for various workshop environments.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating the Starrett ST-1101 Band Saw Machine. Failure to follow these instructions may result in serious injury or damage to the machine.

- **Read the Manual:** Before operation, thoroughly read and understand all instructions in this manual.
- **Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, and appropriate work gloves. Avoid loose clothing or jewelry that could get caught in moving parts.
- **Work Area:** Ensure your work area is clean, well-lit, and free from obstructions. Keep children and bystanders away from the machine during operation.
- **Electrical Safety:** Connect the machine to a properly grounded outlet. Do not operate in damp or wet conditions. Inspect the power cord for damage before each use.
- **Blade Safety:** Ensure the blade is correctly installed and tensioned. Never touch the blade while the machine is connected to power.
- **Material Securement:** Always secure the workpiece firmly in the vise before cutting. Never attempt to hand-hold material during a cut.
- **Maintenance:** Disconnect the power supply before performing any maintenance, adjustments, or blade changes.
- **Emergency Stop:** Familiarize yourself with the location and operation of the emergency stop button.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged.

- Starrett ST-1101 Band Saw Machine
- Instruction Manual (this document)

- Standard Band Saw Blade (13 x 1470 x 0.5mm)
- Removable Chip Box

4. SETUP

4.1 Unpacking and Placement

1. Carefully remove the band saw from its packaging.
2. Place the machine on a stable, level workbench or stand capable of supporting its weight (approximately 23-27 kg). Ensure adequate space around the machine for safe operation and material handling.
3. Unlock the bow locking device used for transport.

4.2 Power Connection

- Ensure the machine's power switch is in the "OFF" position.
- Connect the power cord to a 220 Volt, 50/60 Hz, grounded electrical outlet. The machine is equipped with a Type G - 3 pin British plug. If your region uses a different plug type, use an appropriate adapter or have a qualified electrician install a compatible outlet.
- Verify that the power supply matches the machine's requirements (370 Watts).

4.3 Blade Installation and Tensioning

The machine comes with a quick blade tensioning system.

1. **Disconnect power before proceeding.**
2. Open the blade guard casing. The micro-switch will prevent the machine from operating if the casing is open.
3. Carefully position the band saw blade (13 x 1470 x 0.5mm) around the wheels, ensuring the teeth are pointing in the correct cutting direction.
4. Engage the quick blade tensioning system to apply appropriate tension. The blade should be taut but not overly stressed. Refer to the machine's markings for recommended tension levels.
5. Close the blade guard casing securely.

5. OPERATING INSTRUCTIONS

5.1 Preparing for a Cut

1. **Safety Check:** Ensure all safety guards are in place and the work area is clear. Wear appropriate PPE.
2. **Material Securement:** Place the workpiece on the machine's base. Use the manual vise with its quick-adjustment system to firmly clamp the material. Ensure the material is stable and will not shift during the cut.
3. **Angle Adjustment:** If an angled cut is required, adjust the machine's bow to the desired angle between 0° and +45°. Secure the angle adjustment mechanism.
4. **Cutting Pressure Selection:** The machine offers three cutting pressure regulations (gravitational feed). Select the appropriate pressure based on the material thickness and hardness. Start with a lower pressure for thinner or softer materials and increase for thicker or harder ones.

5.2 Performing a Cut

1. Turn on the machine using the power switch on the control box. The blade will begin to move at 45 meters per minute.
2. Slowly lower the saw bow onto the workpiece. The gravitational feed system will apply the selected cutting pressure.

3. Allow the machine to cut through the material at a consistent rate. Do not force the cut.
4. The machine features an automatic stop function that will halt operation once the cut is complete.
5. Once the cut is finished and the machine has stopped, raise the saw bow and remove the cut workpiece.
6. Turn off the machine at the control box.

Note: This machine is designed for dry cutting and does not require lubrication during operation.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Starrett ST-1101 Band Saw Machine.

- **Disconnect Power:** Always unplug the machine from the power source before performing any cleaning, inspection, or maintenance.
- **Chip Removal:** Regularly empty the removable chip box to prevent accumulation of metal shavings, which can affect machine performance and safety.
- **Cleaning:** Use a brush or vacuum cleaner to remove dust and debris from the machine, especially around the blade guides, wheels, and motor vents. Do not use water or solvents that could damage electrical components.
- **Blade Inspection:** Periodically inspect the band saw blade for wear, dullness, or damage. A dull blade can lead to poor cuts and increased motor strain. Replace worn blades promptly.
- **Blade Guides:** Check the blade guides for wear and proper adjustment. Worn guides can cause blade deviation and premature blade failure.
- **General Inspection:** Routinely check all nuts, bolts, and fasteners for tightness. Ensure all moving parts operate smoothly.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your band saw. For problems not listed here, contact Starrett customer support.

Problem	Possible Cause	Solution
Machine does not start.	No power supply. Emergency stop engaged. Blade guard casing open.	Check power connection and outlet. Release emergency stop button. Ensure blade guard casing is fully closed.
Poor cut quality (uneven, rough).	Dull or damaged blade. Incorrect blade tension. Workpiece not secured. Incorrect cutting pressure.	Replace blade. Adjust blade tension. Secure workpiece firmly in vise. Adjust cutting pressure setting.
Blade breaks frequently.	Excessive blade tension. Worn blade guides. Forcing the cut. Incorrect blade type for material.	Reduce blade tension. Inspect and replace worn blade guides. Allow machine to cut at its own pace. Ensure correct blade for material.
Excessive vibration or noise.	Loose components. Worn blade or guides. Unbalanced workpiece.	Check and tighten all fasteners. Inspect and replace blade/guides. Ensure workpiece is stable.

8. SPECIFICATIONS

Feature	Detail
Manufacturer	Starrett
Model Number	S1101-F1
Power	0.5 hp / 0.37 kW (370 Watts)
Voltage	220 Volts
Saw Speed	45 m/min
Blade Dimensions	13 x 1470 x 0.5 mm (58 inches length)
Cutting Capacity (0°)	Ø 100 mm / 100 x 150 mm
Cutting Capacity (45°)	Ø 60 mm / 60 x 100 mm
Machine Dimensions (L x W x H)	0.72 x 0.38 x 0.46 m (72 x 38 x 46 cm)
Product Dimensions (Amazon)	31 x 40 x 67 cm
Weight	23 kg (machine) / 27 kg (product)
Plug Type	G - 3 pin British
Special Features	Lightweight, Angle Cut (0-45°), Automatic Stop, Gravitational Feed, Removable Chip Box

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Starrett ST-1101 Band Saw Machine, please contact Starrett directly or the authorized dealer from whom you purchased the product.

Keep your purchase receipt and model number (S1101-F1) readily available when contacting support.

Manufacturer: Starrett

