

## Bosch GCB120B

# Bosch Professional Band Saw GCB120B User Manual

Model: GCB120B

## 1. INTRODUCTION

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Thank you for choosing the Bosch Professional Band Saw GCB120B. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before using the product and keep it for future reference.

The Bosch GCB120B is a powerful and versatile band saw designed for precise cutting of various materials. Its robust construction and advanced features ensure high performance and durability, including an 850W high-power motor for fast and quiet cutting, a die-cast high-quality base, a flush cutting position, an LED light, and a speed adjustment dial.

## 2. SAFETY INSTRUCTIONS

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Always observe the following safety precautions to prevent electric shock, fire, and 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 expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.
- **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 and/or remove the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Specific Band Saw Safety:** Ensure the blade is properly tensioned and aligned before operation. Keep hands clear of the blade path. Secure the workpiece firmly before cutting.

### 3. PRODUCT COMPONENTS

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Familiarize yourself with the main components of your Bosch GCB120B Band Saw:

- **Band Saw Unit:** The main cutting tool, featuring the motor, blade, and handle.
- **Die-cast High-Quality Base:** Provides stability and allows for stationary cutting.
- **Blade Tensioning Mechanism:** For adjusting the tension of the band saw blade.
- **Speed Adjustment Dial:** Allows for variable speed control.
- **LED Light:** Illuminates the cutting area for improved visibility.
- **Flush Cutting Position:** A specific setup for making flush cuts.
- **Workpiece Clamp:** Secures the material to be cut when using the base.



Figure 3.1: The Bosch Professional Band Saw GCB120B with its die-cast base, showing the main unit and the stationary setup.

## 4. SETUP AND ASSEMBLY

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### 4.1 Unpacking

Carefully remove all components from the packaging. Inspect for any damage that may have occurred during shipping. Keep packaging materials for future storage or transport.

### 4.2 Attaching the Base

1. Place the die-cast base on a stable, level surface.
2. Align the band saw unit with the mounting points on the base.
3. Secure the band saw unit to the base using the provided fasteners. Ensure all connections are tight and secure.
4. Attach the workpiece clamp to the base as shown in the diagram.



Figure 4.1: A user operating the Bosch GCB120B in its stationary configuration, demonstrating the stability provided by the base during cutting operations.

### 4.3 Blade Installation and Tensioning

1. Ensure the tool is unplugged from the power source.
2. Open the blade guard.
3. Carefully place the band saw blade onto the wheels, ensuring the teeth are pointing in the correct direction.
4. Adjust the blade tensioning mechanism until the blade is taut and centered on the wheels. Refer to the tension indicator if available.
5. Close the blade guard securely.

## 5. OPERATING INSTRUCTIONS

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### 5.1 General Operation

1. Connect the power cord to a suitable AC 100V (50-60Hz) power outlet.
2. Select the appropriate speed using the speed adjustment dial (61-230 RPM) based on the material being cut.
3. Activate the LED light for better visibility of the cutting line.
4. Position the workpiece securely. For stationary use, utilize the workpiece clamp.
5. Start the saw and allow the blade to reach full speed before beginning the cut.
6. Apply steady, even pressure to guide the saw through the material. Do not force the tool.
7. After the cut is complete, release the trigger and allow the blade to stop before removing the tool from the workpiece.

### 5.2 Handheld Operation

The Bosch GCB120B can also be used as a handheld tool for flush cutting or other applications where the base is not required.

1. Ensure the base is detached if you intend to use it handheld.
2. Hold the tool firmly with both hands, maintaining a balanced stance.
3. For flush cutting, position the tool using the dedicated flush cutting position feature.
4. Follow general operating procedures for starting, cutting, and stopping.



Figure 5.1: A user demonstrating the handheld operation of the Bosch GCB120B, highlighting its versatility for various cutting tasks.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your band saw.

### 6.1 Cleaning

- Always unplug the tool before cleaning.
- Use a dry cloth to wipe down the exterior of the tool.
- Remove any sawdust or debris from the blade area and ventilation openings using compressed air or a brush.

## 6.2 Blade Replacement

Replace the blade when it becomes dull or damaged. Always use genuine Bosch replacement blades (Standard accessory: 18-tooth blade).

1. Ensure the tool is unplugged.
2. Loosen the blade tensioning mechanism.
3. Carefully remove the old blade.
4. Install the new blade as described in Section 4.3.
5. Tension the new blade appropriately.

## 6.3 Storage

Store the band saw in a clean, dry place, out of reach of children. If storing for extended periods, consider applying a light coat of oil to metal parts to prevent rust.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	No power supply; Damaged power cord; Faulty switch	Check power connection; Inspect cord for damage; Contact service center if switch is faulty.
Blade not cutting straight	Incorrect blade tension; Worn blade; Misaligned blade guides	Adjust blade tension; Replace blade; Adjust blade guides.
Excessive vibration or noise	Loose components; Damaged blade; Worn bearings	Check all fasteners; Replace blade; Contact service center for bearing replacement.
Motor overheating	Overloading the tool; Blocked ventilation openings	Reduce cutting pressure; Clear ventilation openings.

If you encounter problems not listed here or if the suggested solutions do not resolve the issue, please contact Bosch customer service.

## 8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	GCB120B
Power Input	850 W
Voltage	AC 100V (50-60Hz)
No-load Speed	61-230 RPM
Max. Cutting Capacity (Round Pipe)	120 mm $\phi$
Max. Cutting Capacity (Square Pipe)	120x120 mm
Max. Cutting Capacity (Flush Cut - Round Pipe)	50 mm $\phi$
Max. Cutting Capacity (Flush Cut - Square Pipe)	50x50 mm
Weight	28.1 kg
Dimensions (L x W x H)	71.6 x 33.2 x 64.2 cm
Standard Accessories	18-tooth blade x1, L-wrench, Hex key, Band saw base (with fixed stopper)

## 9. WARRANTY AND SUPPORT

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For warranty information and customer support, please refer to the warranty card included with your product or visit the official Bosch website for your region. Keep your purchase receipt as proof of purchase.

For technical assistance or service inquiries, please contact Bosch customer service:

- **Bosch Official Website:** [www.bosch-professional.com](http://www.bosch-professional.com)
- **Customer Service Contact:** Refer to your regional Bosch website for local contact numbers and service centers.