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GarveeTech bLWicaSBTMQdsTzxrbMSpwKas

GarveeTech 8-inch Benchtop Drill Press Instruction Manual

Model: bLWicaSBTMQdsTzxrbMSpwKas

Introduction

Welcome to the GarveeTech 8-inch Benchtop Drill Press. This manual provides essential information for the safe and efficient operation of your new tool. Please read it thoroughly before use to ensure proper assembly, operation, and maintenance. Retain this manual for future reference.

Important Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to do so may result in serious injury or property damage.

- **Eye Protection:** Always wear ANSI-approved safety goggles or a face shield when operating the drill press.
- **Secure Workpiece:** Always clamp the workpiece securely to the worktable to prevent it from spinning or shifting during drilling.
- **Clean Work Area:** Keep your work area clean, well-lit, and free of clutter to prevent accidents.
- **Electrical Safety:** Do not operate the drill press in damp or wet conditions. Ensure the power cord is in good condition and properly grounded. Disconnect power before making adjustments or performing maintenance.
- **Moving Parts:** Keep hands, hair, and loose clothing clear of all moving parts, especially the drill bit and chuck.
- **Laser Radiation:** This product uses a Class II laser (Max. 1mW). Avoid direct eye exposure to the laser beam. Do not stare into the beam.
- **Proper Ventilation:** Ensure adequate ventilation when drilling, especially with materials that produce dust or fumes.
- **Use Correct Speed:** Select the appropriate drilling speed for the material and drill bit size to prevent overheating and damage.

Package Contents

Carefully unpack all components and verify them against the list below. If any parts are missing or damaged, contact

customer support immediately.

▶ **Watch video online**

Video Description: A person unboxes the GarveeTech 8-inch Benchtop Drill Press, showing the main components including the base, column, head assembly, worktable, chuck, and various accessories.

- Drill Press Head Assembly
- Base
- Column
- Worktable
- Chuck and Chuck Key
- Feed Handles (3)
- Hex Wrenches
- Mounting Hardware
- Instruction Manual

Assembly and Setup

1. Base and Column Assembly

1. Place the base on a stable, level surface.
2. Insert the column into the designated hole on the base.
3. Secure the column to the base using the provided bolts and tighten them with a wrench.

▶ **Watch video online**

Video Description: Demonstrates attaching the main column to the red base of the drill press, securing it with bolts and a wrench.

2. Worktable Installation

1. Slide the worktable onto the column.
2. Adjust its height to a comfortable working position.
3. Secure the worktable in place using the worktable locking handle.



Image Description: Illustrates the worktable's ability to adjust in height and tilt up to 45 degrees, with arrows indicating the range of motion.

3. Head Assembly Installation

1. Carefully lower the drill press head assembly onto the top of the column.
2. Align the head assembly and secure it with the appropriate fasteners, ensuring it is stable.

4. Feed Handle Installation

1. Thread the three feed handles into the side of the head assembly.
2. Ensure they are securely tightened for smooth quill movement.

5. Chuck and Drill Bit Installation

1. Clean the tapered spindle and the inside of the chuck thoroughly.
2. Firmly tap the chuck onto the spindle using a rubber mallet until it is seated securely.
3. Insert the desired drill bit into the chuck jaws.
4. Tighten the chuck securely with the chuck key. Remove the chuck key immediately after tightening.

▶ **Watch video online**

Video Description: Shows how to install the chuck onto the spindle and then insert and tighten a drill bit using the chuck key.

Operation

1. Speed Adjustment (5 Variable Speeds)

The drill press features 5 adjustable speeds (620 to 3100 RPM) controlled by adjusting the belt position on the pulleys. Always disconnect power before adjusting the belt.

1. Disconnect the drill press from the power source.
2. Open the top cover of the head assembly.

3. Loosen the motor tensioning bolt to allow the belt to move freely.
4. Move the drive belt to the desired pulley combination for the required speed. Refer to the speed chart located inside the cover for guidance.
5. Re-tension the motor by tightening the tensioning bolt.
6. Close the top cover securely.



Image Description: Close-up view of the drill press's belt and pulley system, illustrating the five different speed settings and how to adjust the belt for each.

▶ **Watch video online**

Video Description: Demonstrates opening the top cover, adjusting the belt on the pulleys to change the drilling speed, and then closing the cover.

2. Worktable Adjustment

The worktable can be adjusted for height along the column and tilted up to 45 degrees left or right for angled drilling.

1. Loosen the worktable locking handle located on the side of the column.
2. Adjust the table to the desired height or tilt angle.
3. Securely tighten the locking handle to prevent movement during operation.

3. Laser Positioning and LED Work Light

The integrated Class II laser (Max. 1mW) provides a precise visual indication of your drilling point, and the 1W LED work light illuminates the work area for improved visibility.

1. Activate the laser and LED light using their respective switches on the head assembly.
2. Align the laser crosshairs with your desired drilling point on the workpiece.
3. The LED light will provide clear illumination of the drilling area.



Image Description: Shows the drill press in operation with the LED light illuminating the workpiece and the laser indicating the drilling point.



Image Description: A close-up of the drill press's laser in action, projecting red crosshairs onto a workpiece to guide precise drilling.

4. Drilling Procedure

Always ensure the workpiece is securely clamped to the worktable before drilling to prevent injury and ensure accurate results.

1. Select the appropriate drill bit and drilling speed for your material (wood, metal, plastic) and desired hole size.
2. Adjust the worktable height and position the workpiece, ensuring it is firmly clamped.
3. Use the laser guide to align the drill bit with your desired drilling point.
4. Turn on the drill press using the ON/OFF switch.
5. Slowly lower the drill bit into the workpiece using the feed handles, applying steady, even pressure. Avoid excessive force.
6. Allow the drill bit to cut through the material. For deep holes, periodically retract the bit to clear chips.

7. Once drilling is complete, fully retract the drill bit from the workpiece.
8. Turn off the drill press and wait for the chuck to stop rotating before removing the workpiece.



Image Description: A person operating the drill press, demonstrating its use on various materials like wood, plastic, aluminum, and mild steel.

▶ **Watch video online**

Video Description: Shows the drill press drilling through a metal bar and a piece of wood, demonstrating its precision and power.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your drill press.

- **Cleaning:** Regularly clean the drill press, especially the column, worktable, and chuck, to prevent rust and accumulation of debris. Use a dry cloth or brush.
- **Belt Inspection:** Periodically inspect the drive belt for signs of wear, cracks, or stretching. Replace the belt if necessary to maintain consistent speed and power.
- **Lubrication:** Apply a light coat of machine oil to moving parts, such as the quill and column, as recommended in the full manual, to ensure smooth operation.
- **Storage:** Store the drill press in a dry, clean environment to protect it from moisture and dust.

Troubleshooting Guide

Refer to this guide for common issues and their solutions.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Drill not starting	Power cord unplugged, ON/OFF switch off, circuit breaker tripped	Check power connections, ensure switch is ON, reset circuit breaker.
Inaccurate drilling / Drill bit wobbles	Loose chuck, unsecured workpiece, bent drill bit	Tighten chuck securely, clamp workpiece firmly, replace bent drill bit.
Excessive vibration or noise	Loose components, unbalanced drill bit, worn belt	Check all fasteners, replace or re-seat drill bit, inspect and replace belt if worn.
Motor overheating	Overload, insufficient ventilation, incorrect speed for material	Reduce drilling pressure, ensure clear motor vents, adjust speed to match material.
Drill bit binds in workpiece	Incorrect speed, dull drill bit, excessive feed pressure	Adjust speed, sharpen or replace drill bit, reduce feed pressure.

Product Specifications

Feature	Detail
Manufacturer	GarveeTech
Model Number	bLWicaSBTMQdsTzxrbMSpwKas
Product Dimensions	48.01 x 40.01 x 28.5 cm
Item Weight	13.34 kg
Power Source	Corded Electric
Voltage	110 Volts
Amperage	2.5 Amps
Maximum Rotational Speed	3100 RPM
Number of Speeds	5
Chuck Capacity	1/2 inch
Drill Capacity	1/2 inch
Swing	8 inches
Worktable Tilt	0-45° (Left/Right)
LED Work Light Wattage	1 W
Laser Level	Class II, Max 1mW
Material	Metal

Warranty and Customer Support

GarveeTech products are manufactured to high-quality standards. For warranty information, technical assistance, or replacement parts, please contact GarveeTech customer support. Refer to the contact details provided with your purchase documentation or visit our official website.

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