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Bonvoisin XJ 62

Bonvoisin 1200W Benchtop Drill Press

Model: XJ 62 User Manual

Introduction

Thank you for choosing the Bonvoisin XJ 62 Benchtop Drill Press. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before initial use to ensure proper function and to prevent injury or damage. Keep this manual in a safe place for future reference.



Figure 1: Bonvoisin XJ 62 Benchtop Drill Press

Safety Instructions

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- **Read the Manual:** Always read and understand the entire instruction manual before operating the drill press.
- **Wear 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 drill press table. Never hold it by hand.
- **Keep Work Area Clean:** Cluttered areas invite accidents. Ensure your workspace is well-lit and free of debris.
- **Disconnect Power:** Always disconnect the power cord from the outlet before making adjustments, changing accessories, or performing maintenance.
- **Use Correct Speed:** Select the appropriate speed for the material being drilled and the size of the drill bit.

- **Avoid Loose Clothing:** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that could get caught in moving parts. Tie back long hair.
- **Maintain Balance:** Keep proper footing and balance at all times.
- **Do Not Force Tool:** Allow the tool to work at its intended speed. Forcing it can lead to injury or damage.
- **Check for Damaged Parts:** Before use, check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation.

Product Overview

The Bonvoisin XJ 62 is a versatile benchtop drill press designed for precision drilling and light grinding tasks. It features a powerful 1200W motor, 6 variable speeds, and a 90° swiveling head for enhanced functionality.

Key Features:

- **6 Variable Speeds:** Adjust rotation speed up to 2800 RPM for optimal performance across various materials.
- **1200W Induction Motor:** Provides ample power for clean and precise holes up to 35mm in wood and 1.5mm in soft metal.
- **90° Swiveling Drill Head:** Allows for quick conversion from vertical drilling to controlled grinding operations, saving workshop space.
- **Three Extended Handles:** Designed for superior mechanical leverage, ensuring stable and consistent feed pressure with less effort.
- **Total Height and Depth Adjustment:** Both the drill head and work table can be smoothly repositioned along the support column for different workpiece sizes and precise drilling depths.
- **Robust Cast Iron Base:** Ensures stability during operation.

Included Components:

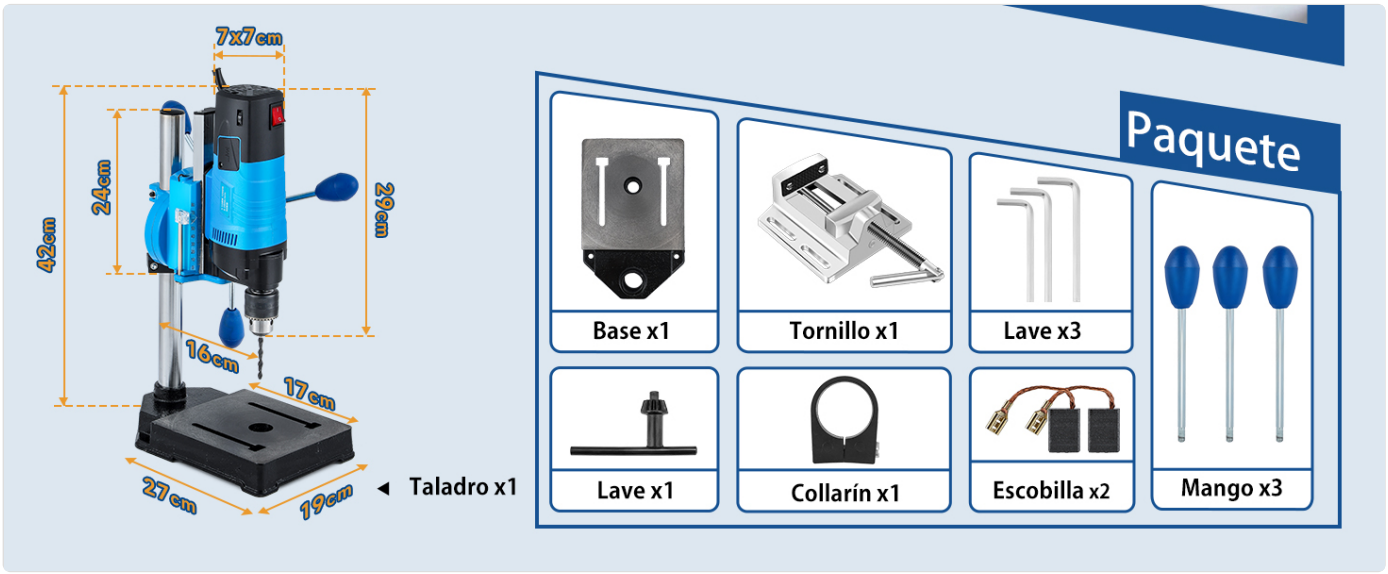


Figure 2: Included Components and Technical Diagram

- Drill Press Unit
- Base
- Vise (Workpiece Clamp)
- Hex Wrenches (3x)
- Collar

- Carbon Brushes (2x)
- Operating Handles (3x)

Setup

Assembly:

1. Carefully unpack all components and verify against the included components list.
2. Attach the main drill press unit to the robust cast iron base using the provided fasteners. Ensure all connections are secure.
3. Install the three operating handles into their respective ports on the drill head.
4. Mount the vise onto the drill press table if required for your application.



Figure 3: Assembly Steps

Mounting the Drill Press:

For optimal stability and safety, it is recommended to mount the drill press to a sturdy workbench or table. Use appropriate bolts and washers to secure the base through the pre-drilled holes.



Figure 4: Securing the Base to a Workbench

Operating Instructions

1. Powering On/Off:

Connect the power cord to a suitable 220V electrical outlet. Use the red ON/OFF switch located on the motor housing to start and stop the drill press.



Figure 5: Power Switch and Speed Regulation

2. Adjusting Speed:

The drill press offers 6 variable speeds, ranging from 850 to 2800 RPM. Use the speed selector dial on the motor housing to choose the appropriate speed for your material and drill bit size. Always adjust speed when the machine is off and unplugged.

3. Adjusting Height and Depth:

The drill head and work table can be adjusted vertically along the column. Loosen the locking knob, adjust to the desired height, and then securely tighten the knob. The depth stop allows for precise and repeatable drilling depths. Set the depth

stop to your desired measurement before drilling.



Figure 6: Height and Depth Adjustment

4. Changing Drill Bits:

Ensure the drill press is unplugged. Use the chuck key to loosen the chuck jaws. Insert the drill bit fully into the chuck, then tighten the chuck jaws securely with the chuck key. Remove the chuck key before operating the machine.

5. Using 90° Swivel for Grinding:

The drill head can be tilted 90 degrees to convert the unit for grinding tasks. Loosen the locking mechanism, carefully tilt the drill head to the horizontal position, and secure it. Attach a suitable grinding accessory to the chuck. Always ensure the workpiece is stable and use appropriate safety gear for grinding.



Figure 7: 90° Swivel for Grinding

6. Material Compatibility:

This drill press is suitable for drilling in wood, soft metal, and plastic. It can also be used for light grinding tasks.

- **Wood:** Max drilling depth 35mm.
- **Soft Metal:** Max drilling depth 1.5mm.
- **Plastic:** Suitable for various plastic types.



Figure 8: Versatile Applications for Various Materials

Maintenance

Regular maintenance ensures the longevity and safe operation of your drill press.

- **Cleaning:** After each use, unplug the machine and clean off dust and debris from the motor, column, and table using a brush or compressed air.
- **Chuck Care:** Keep the chuck jaws clean and free of rust. Apply a light coat of machine oil to the jaws periodically.
- **Lubrication:** Periodically apply a light machine oil to the column and other moving parts to ensure smooth operation.
- **Carbon Brushes:** Check carbon brushes periodically for wear. Replace them when they are worn down to approximately 1/4 inch (6mm) or if the motor performance decreases. Always use genuine replacement parts.
- **Inspection:** Regularly inspect the power cord for damage. Check all fasteners for tightness.

Troubleshooting

This section addresses common issues you might encounter with your drill press.

Problem	Possible Cause	Solution
Drill press does not start	No power supply Faulty power switch Worn carbon brushes	Check power connection and outlet Inspect/replace power switch Replace carbon brushes
Excessive vibration	Loose mounting bolts Unsecured workpiece Bent or dull drill bit	Tighten all mounting bolts Securely clamp workpiece Replace drill bit
Poor drilling performance	Dull drill bit Incorrect speed for material Insufficient feed pressure	Replace or sharpen drill bit Adjust speed according to material Apply steady, firm pressure
Smoke or burning smell from motor	Overload Worn carbon brushes Internal motor issue	Reduce load, allow motor to cool Replace carbon brushes Discontinue use and contact service

Specifications



Figure 9: Product Dimensions

Feature	Specification
Brand	Bonvoisin
Model Number	XJ 62
Power Source	Corded Electric
Voltage	220 Volts
Maximum Power	1200 Watts
Maximum Rotation Speed	2800 RPM
Number of Speeds	6

Feature	Specification
Drilling Capacity (Wood)	35 mm
Drilling Capacity (Soft Metal)	1.5 mm
Chuck Capacity	1.5 - 13 mm
Product Dimensions (L x W x H)	30 cm x 20.3 cm x 45 cm
Material	Metal

Warranty and Support

Bonvoisin products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included with your purchase for specific terms and conditions.
For technical support, replacement parts, or warranty claims, please contact Bonvoisin customer service through the retailer where the product was purchased or visit the official Bonvoisin website. Please have your model number (XJ 62) and purchase date available when contacting support.

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