VISLONE Mini Bench Drill Press

VISLONE Mini Bench Drill Press Instruction Manual

Model: Mini Bench Drill Press

1. Introduction and Overview

This manual provides essential information for the safe and effective operation of your VISLONE Mini Bench Drill Press. Please read it thoroughly before initial use and retain it for future reference. This mini bench drill press is designed for precision drilling tasks in various materials such as wood, metal, and plastic, suitable for DIY enthusiasts and small workshop applications.

Figure 1: Overview of the VISLONE Mini Bench Drill Press, highlighting key specifications like input voltage, output voltage, rated power, speed range, drilling stroke, and chuck specification.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep your work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Keep children and bystanders away while operating a power tool.

- Wear appropriate safety glasses or goggles.
- Secure the workpiece firmly before drilling to prevent movement.
- Ensure the drill bit is correctly installed and tightened in the chuck.
- Do not force the tool; let the drill press work at its intended speed.
- Disconnect the power supply before changing accessories or performing maintenance.
- Avoid loose clothing or jewelry that could get caught in moving parts.

3. Package Contents

Verify that all items listed below are present in your package. If any parts are missing or damaged, contact customer

support.

- 1 x VISLONE Mini Bench Drill Press
- 1 x Power Adapter (with regional plug)

Figure 2: The Mini Bench Drill Press and its included power adapter, ready for connection.

4. Specifications

Refer to the following technical specifications for your VISLONE Mini Bench Drill Press:

Feature	Specification
Input Voltage	100-240V
Output Voltage	24V
Rated Power	100W
Speed Range	1000-4500 rpm (7 speeds)
Drilling Stroke	40mm
Chuck Specification	B12 (1.5-10mm)
Body Material	Stainless Steel + Aluminum Alloy
Motor Type	795 model pure copper core motor
Synchronous Wheel	1:2 speed change
Item Weight	4.65 pounds (2.11 kg)
Package Dimensions	10.24 x 7.09 x 5.91 inches (26 x 18 x 15 cm)

Figure 3: The drill press features 7 adjustable speeds and a maximum drilling depth of 40mm for versatile applications.

5. Setup

Follow these steps to set up your Mini Bench Drill Press:

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage during transit.
2. **Placement:** Place the drill press on a stable, level, and clean workbench. The thickened aluminum alloy base is designed to reduce vibration and movement.
3. **Power Connection:** Connect the power adapter to the drill press. Ensure the correct plug type is used for your region. Plug the adapter into a suitable power outlet.
4. **Chuck Installation:** The B12 chuck (1.5-10mm) is pre-installed. Ensure it is securely fastened.

Figure 4: The power adapter is available with various plug options (UK, EU, AU, US) to suit different regional power outlets.

6. Operating Instructions

Familiarize yourself with the controls and functions before operating the drill press.

6.1 Installing a Drill Bit

1. Ensure the drill press is unplugged from the power source.
2. Insert the desired drill bit into the chuck jaws.
3. Tighten the chuck securely using the chuck key (if applicable) to prevent the bit from slipping during operation.

6.2 Adjusting Speed

The drill press features 7 adjustable speeds (1000-4500 rpm). Adjust the speed according to the material being drilled and the drill bit size. Lower speeds are generally used for harder materials and larger drill bits, while higher speeds are suitable for softer materials and smaller bits.

6.3 Adjusting Drilling Depth

The maximum drilling stroke is 40mm. To set the drilling depth, loosen the depth stop lock, adjust the depth stop to the desired measurement, and then tighten the lock.

6.4 Drilling Operation

1. Secure the workpiece firmly on the base plate using clamps or a vise.
2. Plug in the power adapter.
3. Turn on the drill press.
4. Slowly lower the drill bit into the workpiece using the feed handle. Apply steady, even pressure.
5. Once the desired depth is reached, retract the drill bit from the workpiece.
6. Turn off the drill press and unplug it after use.

Figure 5: The drill press in operation, demonstrating its capability for precision drilling in wood.

Figure 6: The versatility of the drill press for various materials, including metal, wood, plastic, and for crafting beads.

7. Maintenance

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

- **Cleaning:** After each use, unplug the tool and clean off any dust, chips, or debris from the machine, especially around the chuck and motor area. Use a soft brush or compressed air.
- **Lubrication:** Periodically apply a light machine oil to moving parts, such as the column and quill, to ensure smooth operation.
- **Inspection:** Regularly inspect the power cord for any damage. Check all fasteners for tightness.
- **Storage:** Store the drill press in a clean, dry place away from moisture and direct sunlight.

8. Troubleshooting

If you encounter issues with your drill press, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drill press does not turn on	No power supply; Faulty power adapter; Loose connection	Check power outlet; Ensure adapter is securely connected; Test adapter if possible.
Drill bit slips in chuck	Chuck not tightened sufficiently; Drill bit shank is dirty or damaged	Tighten chuck firmly with key; Clean or replace drill bit.
Excessive vibration or noise	Loose components; Unbalanced drill bit; Unstable workpiece	Check all screws and bolts for tightness; Ensure drill bit is straight and balanced; Secure workpiece firmly.
Drill bit not cutting effectively	Dull drill bit; Incorrect speed for material; Insufficient pressure	Replace or sharpen drill bit; Adjust speed setting; Apply steady, appropriate pressure.

9. Warranty and Support

VISLONE products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase documentation or visit the official VISLONE website. Keep your purchase receipt as proof of purchase for any warranty claims.