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› VEVOR MR-13A+ Drill Bit Sharpener User Manual

**VEVOR MR-13A+**

# VEVOR MR-13A+ Drill Bit Sharpener User Manual

Model: MR-13A+

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and efficient operation of your VEVOR MR-13A+ Drill Bit Sharpener. This machine is designed for sharpening drill bits ranging from 3mm to 15mm, featuring an adjustable point angle from 95° to 135° and a high-speed 5800 RPM motor with a CBN grinding wheel. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: VEVOR MR-13A+ Drill Bit Sharpener Overview



Figure 2: Sharpening Capability Demonstration

## 2. SAFETY INSTRUCTIONS

**WARNING: Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury.**

## 2.1 General Safety

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during operation.
- 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

## 2.2 Electrical Safety

- Ensure the power supply voltage matches the specifications on the product label.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

## 2.3 Personal Safety

- Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.
- Secure the workpiece. Use clamps or a vise to hold the workpiece. This is safer than using your hand and it frees both hands to operate the tool.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

## 3. PRODUCT COMPONENTS

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The VEVOR MR-13A+ Drill Bit Sharpener comes with the following components:

- 13 x Elastic Collets (for drill bits  $\Phi 3$ - $\Phi 15$ mm)
- 1 x CBN Grinding Wheel (pre-installed)
- 1 x M3 Allen Wrench
- 1 x Collet Chuck ( $\Phi 3$ - $\Phi 13$ )
- 1 x Collet Chuck ( $\Phi 14$ - $\Phi 15$ )



Figure 3: Product Components and Dimensions

## 4. SETUP

Before operating the drill bit sharpener, ensure it is placed on a stable, level surface. Connect the power cord to a suitable electrical outlet. No complex assembly is required as the CBN grinding wheel is pre-installed.

### 4.1 Preparing the Drill Bit

1. **Select the Correct Collet:** Choose an elastic collet that matches the diameter of the drill bit you intend to sharpen. The sharpener includes 13 collets covering Φ3-Φ15mm.

2. **Assemble the Collet Chuck:** Insert the selected collet into the appropriate collet chuck ( $\Phi 3$ - $\Phi 13$  or  $\Phi 14$ - $\Phi 15$ ).
3. **Insert the Drill Bit:** Place the drill bit into the assembled collet chuck. Ensure the drill bit is securely held.



Figure 4: Collets and Chucks for Drill Bit Compatibility

## 5. OPERATING INSTRUCTIONS

The VEVOR MR-13A+ Drill Bit Sharpener is designed for efficient and precise sharpening. Follow these steps for optimal results:

## 5.1 Sharpening Process (4-Step Guide)

1. **Choose the Appropriate Collet:** As described in the setup, select and assemble the correct collet and chuck for your drill bit.
2. **Adjust the Position:** Insert the drill bit into the sharpening port. Adjust the position of the drill bit within the chuck according to the desired grinding depth.
3. **Insert Collet Chuck:** Carefully insert the collet chuck with the drill bit into the designated grinding hole, aligning it based on the grinding hole's parallel line.
4. **Rotate to Sharpen:** Turn on the sharpener. Gently rotate the collet chuck 180 degrees to complete the sharpening of one side of the drill bit. Repeat for the other side to ensure even sharpening.

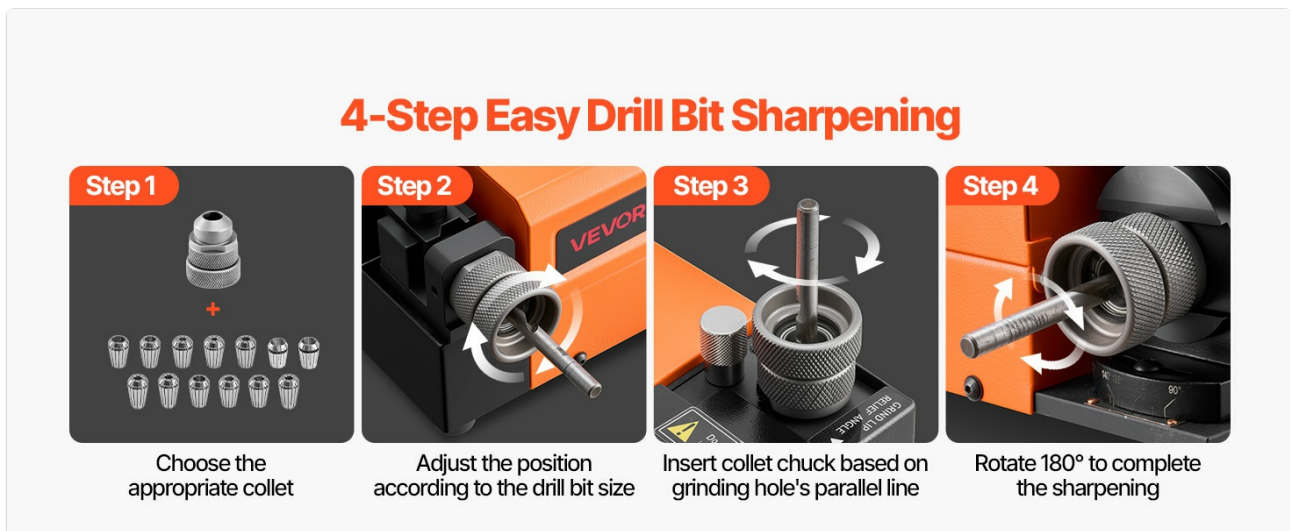


Figure 5: 4-Step Easy Drill Bit Sharpening

## 5.2 Adjusting Point Angle

The sharpener allows for adjustment of the drill bit's point angle from 95° to 135° to suit various drilling materials and applications.

1. Locate the point angle adjustment knob on the sharpener.
2. Use the provided M3 Allen wrench to loosen the locking mechanism if necessary.
3. Rotate the adjustment knob to set the desired point angle. Refer to the markings for precise adjustment.
4. Tighten the locking mechanism to secure the chosen angle.

# 95° - 135° Adjustable Point Angle

Precise angle control for various drilling needs



Figure 6: Adjustable Point Angle Mechanism

## 5.3 Video Demonstration

Watch this official video for a visual guide on operating the VEVOR Drill Bit Sharpener:

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Video 1: Efficient Precise Sharpening, Sharp as New. This video demonstrates the sharpening process and the effectiveness of the VEVOR drill bit sharpener.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR MR-13A+ Drill Bit Sharpener.

- **Cleaning:** After each use, disconnect the power and use a soft brush or cloth to remove any grinding dust or debris from the machine, especially around the grinding wheel and collet areas.
- **Grinding Wheel Inspection:** Periodically inspect the CBN grinding wheel for wear or damage. A worn wheel will reduce sharpening efficiency. Replace if necessary.
- **Storage:** Store the sharpener in a clean, dry place away from direct sunlight and moisture.



Figure 7: CBN Grinding Wheel for Long-Lasting Sharpness

## 7. TROUBLESHOOTING

If you encounter issues with your VEVOR MR-13A+ Drill Bit Sharpener, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Machine does not turn on	No power supply; Power switch off; Faulty power cord	Check power connection; Ensure switch is ON; Inspect power cord for damage.
Drill bit not sharpening effectively	Worn grinding wheel; Incorrect angle setting; Improper drill bit insertion	Replace grinding wheel; Adjust point angle (95°-135°); Ensure drill bit is securely inserted and rotated correctly.
Excessive vibration or noise	Unstable surface; Loose components; Damaged grinding wheel	Place on a stable surface; Check for loose screws and tighten; Inspect grinding wheel for damage.

## 8. SPECIFICATIONS

Key technical specifications for the VEVOR MR-13A+ Drill Bit Sharpener:

- **Item Model Number:** MR-13A (Note: Product is marketed as MR-13A+)
- **Rated Power:** 120W

- **Applicable Drill Bit Diameter:**  $\Phi 3$ - $\Phi 15$ mm
- **Adjustable Point Angle:** 95° - 135°
- **Grinding Wheel:** CBN Grinding Wheel (pre-installed)
- **Net Weight:** 18.7 lbs / 8.5 kg
- **Product Dimensions:** 11.4 x 5.5 x 6.3 inches / 290 x 140 x 160 mm

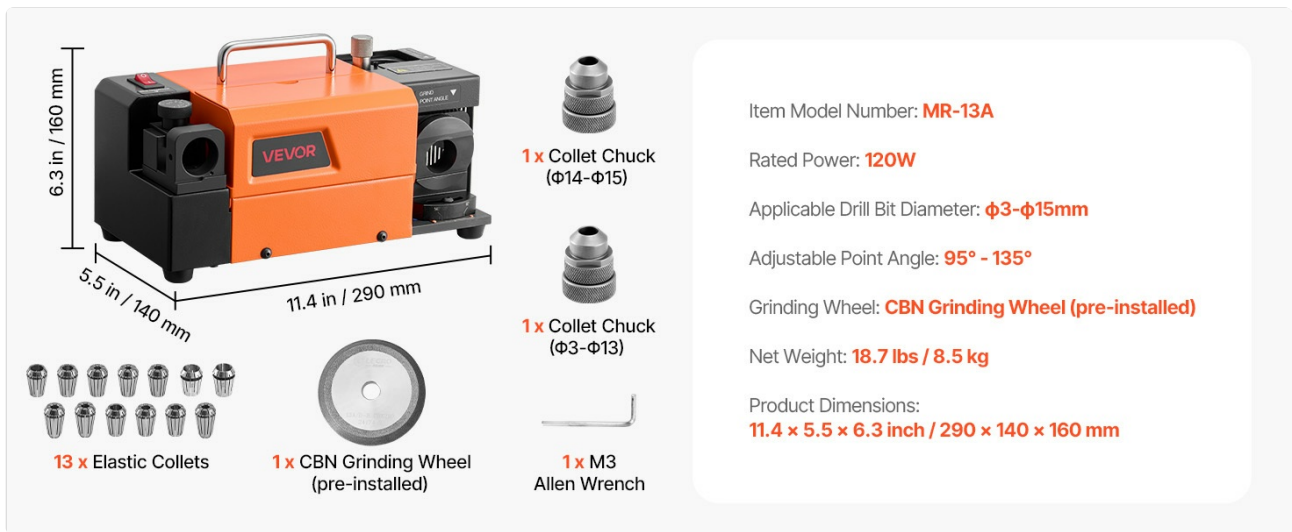


Figure 8: Detailed Product Specifications

## 9. APPLICATIONS

The VEVOR MR-13A+ Drill Bit Sharpener is suitable for a variety of environments, ensuring your drill bits are always sharp and ready for use.

# Versatile Applications

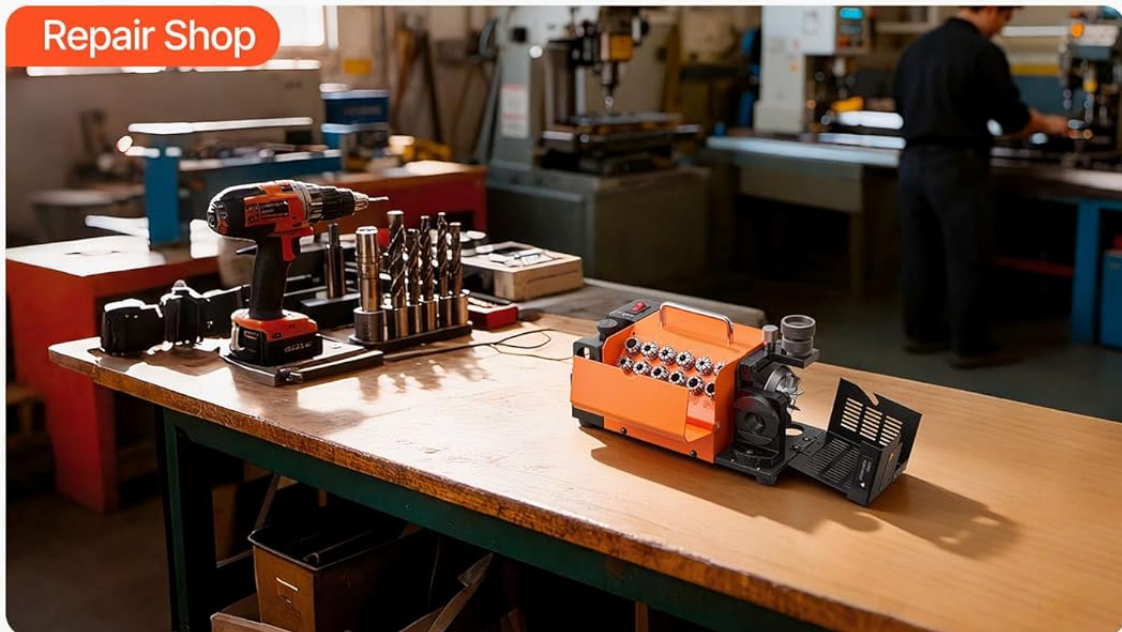
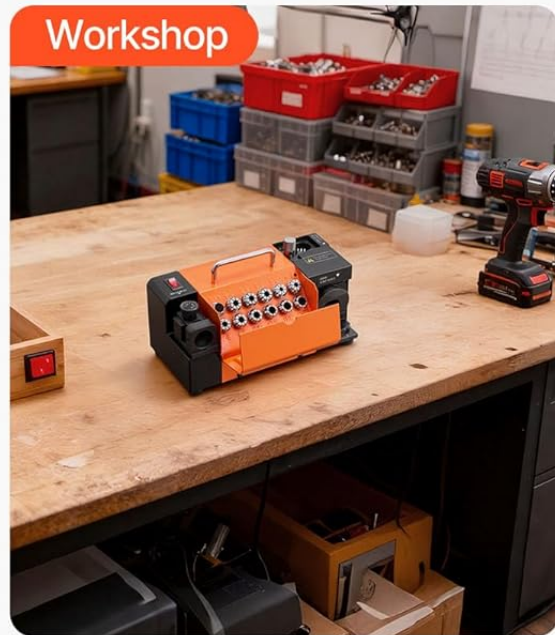


Figure 9: Versatile Applications in various settings

**Easily maintain tool sharpness ,  
making garage work  
more efficient**



Figure 10: Efficient Use in a Garage Environment

**Enhance precision  
machining,  
a must-have tool  
for workshops**

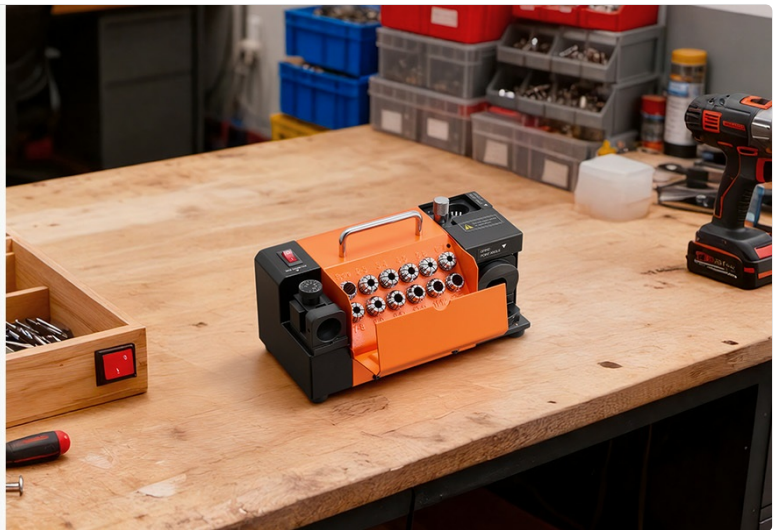


Figure 11: Essential Tool for Workshops

**Efficient and reliable  
sharpening for  
factory-scale  
production**



Figure 12: Reliable for Factory Production

## 10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your VEVOR MR-13A+ Drill Bit Sharpener, please contact VEVOR customer service through their official website or the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

Visit the official VEVOR Store for more information: [VEVOR Store](#)