

VEVOR DR24

VEVOR Board Cutter Drill Attachment Instruction Manual

Model: DR24

1. INTRODUCTION

Thank you for choosing the VEVOR Board Cutter Drill Attachment. This tool is designed to convert your electric drill into a powerful shear for cutting various board materials, including fiber cement board and plasterboard. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new attachment. Please read these instructions thoroughly before use and retain them for future reference.

2. SAFETY INSTRUCTIONS

Always observe basic safety precautions when using this drill attachment to reduce the risk of injury. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Wear Personal Protective Equipment:** Always wear safety glasses or goggles, hearing protection, and work gloves. A dust mask is recommended when cutting materials that produce fine particles.
- **Secure Workpiece:** Ensure the material being cut is firmly clamped or secured to prevent movement during operation.
- **Inspect Tool Before Use:** Check the attachment and your drill for any damage, loose parts, or wear before each use. Do not operate if damaged.
- **Disconnect Power:** Always disconnect the drill from its power source (unplug or remove battery pack) before making any adjustments, changing accessories, or performing maintenance.
- **Maintain a Firm Grip:** Hold the drill and attachment firmly with both hands during operation to maintain control.
- **Keep Work Area Clear:** Ensure the work area is well-lit and free of clutter. Keep bystanders, especially children, away from the work area.
- **Avoid Overreaching:** Maintain proper footing and balance at all times.
- **Use Correct Speed:** Operate the drill within the recommended speed range (1500-3000 RPM) for optimal performance and safety.
- **Do Not Force the Tool:** Allow the attachment to cut at its own pace. Forcing it can lead to poor cuts,

damage to the tool, or injury.

3. PRODUCT OVERVIEW

The VEVOR Board Cutter Drill Attachment transforms your standard electric drill into a versatile cutting tool. It features a robust cutting head and a 360-degree pivoting design for enhanced maneuverability.

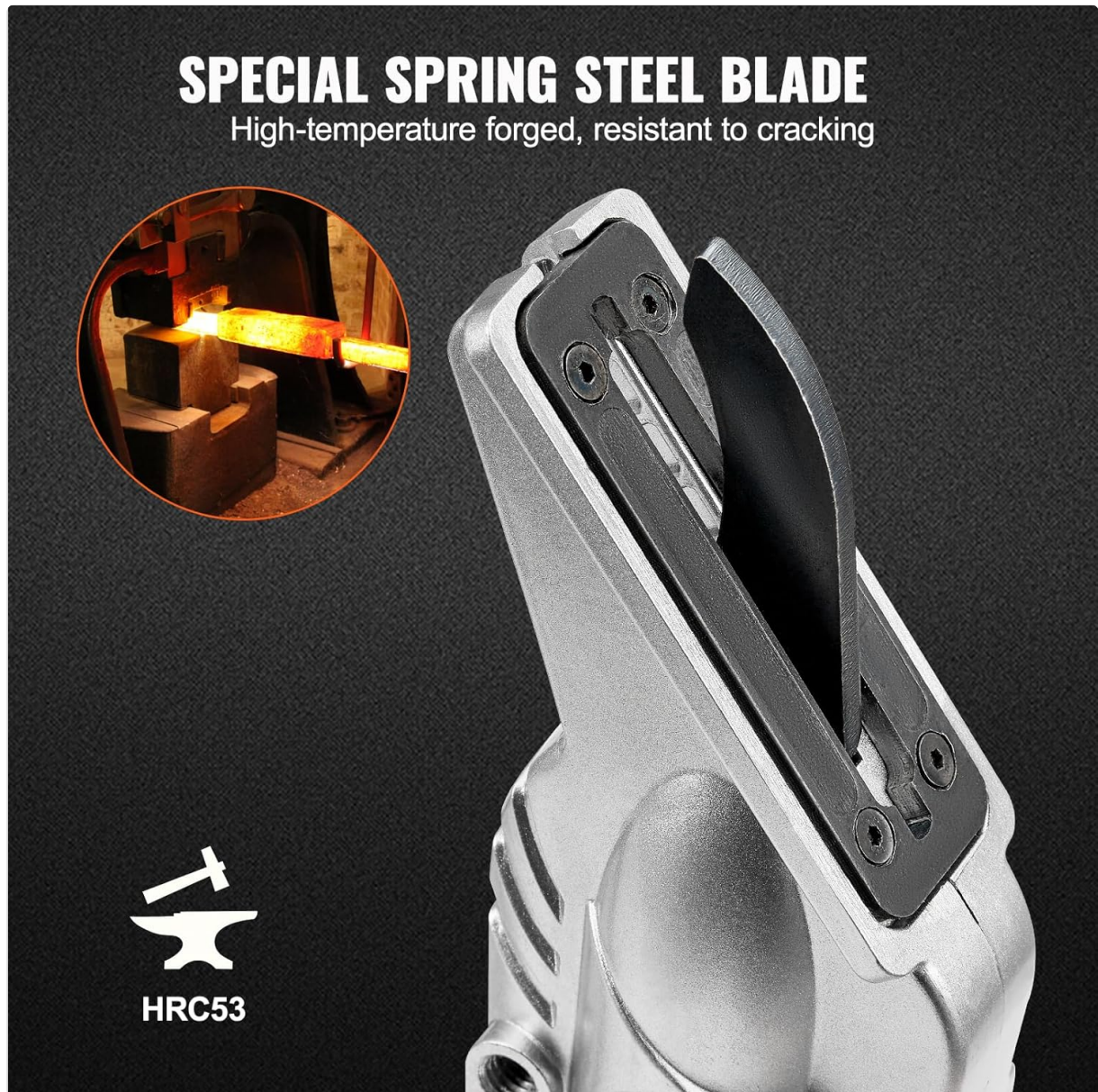


Figure 3.1: Special Spring Steel Blade. This image shows a close-up of the cutting head, highlighting the durable spring steel blade designed for longevity and resistance to cracking.

Key Features:

- **Durable Blade:** The cutting head is equipped with a special spring steel blade, hardened to HRC53, ensuring resistance to deformation and prolonged sharpness.
- **360-Degree Pivoting Head:** Allows for flexible operation, enabling cuts from various angles and directions, ideal for straight lines, large curves, circles, and irregular shapes.
- **Universal Bracket Design:** Minimizes machine vibration for smoother, more stable cuts and reduced user fatigue.
- **Broad Compatibility:** Designed to work with most 18V-20V cordless drills, impact drivers, and impact drills, utilizing a standard 1/4" hex shank.

4. SPECIFICATIONS

Refer to the following specifications for detailed information about the VEVOR Board Cutter Drill Attachment.



Figure 4.1: Product Specifications. This image provides a visual summary of the attachment's key technical details and dimensions.

Feature	Detail
Model Number	DR24
Product Dimensions	39.8 x 9.3 x 11.1 cm (15.67" x 4.37" x 3.66")
Net Weight	1.2 kg (2.65 lbs) (Main Body + Accessory)
Compatible Tools	Most 18V-20V Cordless Drills, Impact Drivers, Impact Drills
Connection Method	Standard 1/4" / 6.4 mm Hexagonal Axis
Applicable Electric Drill Speed	1500-3000 RPM (Based on actual speed)

Feature	Detail
Maximum Cutting Thickness (Fiber Cement Board)	0.5" / 13 mm
Maximum Cutting Thickness (Plasterboard)	0.47" / 12 mm
Minimum Cutting Radius	1" / 2.54 cm
Blade Hardness	HRC53
Fixing Method	Body Bracket Fixation

5. SETUP

Follow these steps to properly attach the board cutter to your electric drill.



Figure 5.1: Attaching the Cutter. This image illustrates the process of connecting the board cutter attachment to a drill.

1. **Ensure Drill is Safe:** Before attachment, ensure your electric drill is turned off, unplugged from the power source, or has its battery pack removed.
2. **Open Drill Chuck:** Open the chuck of your electric drill to accommodate the attachment's shank.

3. **Insert Shank:** Insert the 1/4" hexagonal shank of the VEVOR Board Cutter Drill Attachment into the drill chuck.
4. **Secure Chuck:** Tighten the drill chuck securely around the attachment's shank. Ensure it is firmly seated and cannot wobble.
5. **Attach Support Bracket (if applicable):** If your drill setup includes a support bracket for the attachment, secure it according to the bracket's instructions to enhance stability and reduce vibration during operation.

6. OPERATING INSTRUCTIONS

Proper operation ensures efficient cutting and extends the life of your tool.



Figure 6.1: Smooth Cutting Operation. This image demonstrates the attachment performing a clean, burr-free cut on a board material.

1. **Prepare Workpiece:** Mark your desired cutting line clearly on the material. Secure the workpiece to a stable surface to prevent movement during cutting.
2. **Start Drill:** Before engaging the material, start your electric drill and allow it to reach the recommended operating speed (1500-3000 RPM).
3. **Engage Material:** Gently bring the cutting head into contact with the edge of the material along your marked line.

4. **Guide the Cut:** Guide the attachment smoothly and steadily along the cutting line. Do not apply excessive force; allow the blades to do the work.
5. **For Straight Cuts:** For best results and straight lines, consider using a straight edge or guide clamped to the workpiece.
6. **For Curved Cuts:** Utilize the 360-degree pivoting head for cutting large curves, circles, or irregular shapes. Adjust the head to the desired angle for optimal maneuverability.
7. **Cutting Direction:** For materials like Hardie Board siding, cutting from the back side can result in cleaner, smoother edges. Experiment with scrap material to determine the best approach for your specific material.
8. **Complete the Cut:** Continue guiding the tool until the cut is complete. Once finished, lift the attachment away from the material before turning off the drill.



360° SWIVEL HEAD

Smoother curve cutting



Large Curves



Circles



Irregular Shapes

Figure 6.2: 360-Degree Swivel Head. This image highlights the flexibility of the swivel head, enabling diverse cutting patterns.

ONE CUTTER FOR MULTIPLE MATERIALS

Suitable for cutting various boards



Plasterboard: 0.47" / 12 mm



Fiber Cement Board: 0.5" / 13 mm

Figure 6.3: Material Compatibility. This image illustrates the types of materials and their maximum thicknesses that can be cut with the attachment.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR Board Cutter Drill Attachment.

- **Cleaning:** After each use, disconnect the attachment from the drill and clean off any dust, debris, or material residue from the cutting head and body. Use a dry cloth or soft brush. Avoid using solvents that may damage plastic components.
- **Blade Inspection:** Regularly inspect the cutting blades for signs of wear, dullness, or damage. Sharp blades are crucial for clean cuts and efficient operation. If blades become dull or damaged, replacement may be necessary.
- **Lubrication:** Periodically apply a small amount of light machine oil to the pivoting mechanisms and cutting surfaces to ensure smooth operation and prevent rust.
- **Storage:** Store the attachment in a clean, dry place, away from direct sunlight and extreme temperatures. Keep it out of reach of children.

8. TROUBLESHOOTING

If you encounter issues with your VEVOR Board Cutter Drill Attachment, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Cuts are rough or uneven	Dull blades; Incorrect drill speed; Forcing the tool; Material not secured.	Inspect and replace blades if dull. Ensure drill speed is within 1500-3000 RPM. Guide the tool smoothly without forcing. Secure the workpiece firmly.
Attachment wobbles or feels unstable	Drill chuck not tightened sufficiently; Support bracket not used or improperly installed.	Ensure the drill chuck is securely tightened around the hex shank. If applicable, properly install and adjust the universal support bracket.
Tool leaves black marks on material	Residue on blades; Blades overheating.	Clean blades thoroughly after each use. Ensure proper drill speed and avoid prolonged, continuous cutting to prevent overheating.
Difficulty cutting through material	Material thickness exceeds limits; Blades are dull; Insufficient drill power/speed.	Verify material thickness is within 0.5" (fiber cement) or 0.47" (plasterboard). Replace dull blades. Ensure your drill is operating at the recommended RPM and has sufficient power.

9. WARRANTY AND SUPPORT

VEVOR products are designed for durability and performance. For warranty information, technical assistance, or to inquire about replacement parts, please contact VEVOR customer service through the official VEVOR website or your purchase platform. Please have your model number (DR24) and purchase details ready when contacting support.