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› General Tools Drill Grinding Attachment #825 User Manual

General Tools 825

General Tools Drill Grinding Attachment #825 User Manual

Model: 825 | Brand: General Tools

1. INTRODUCTION

The General Tools Drill Grinding Attachment #825 is designed to restore the sharpness and accuracy of dull drill bits. This attachment facilitates precise grinding, extending the lifespan and performance of your drill bits. It is compatible with ANSI, OSHA, and UL-approved standard electric bench grinders or surface grinders.



Image 1.1: The General Tools Drill Grinding Attachment #825, shown from a side angle, highlighting its compact design and various adjustment points.

2. SAFETY INFORMATION

Always prioritize safety when operating power tools and accessories. Read and understand all instructions before use. Failure to follow safety guidelines may result in injury or damage to equipment.

- Always wear appropriate personal protective equipment (PPE), including safety glasses or a face shield, and hearing protection.
- Ensure the grinding attachment is securely mounted to a stable workbench or tool stand using a vice clamp before operation.
- Use only with ANSI, OSHA, and UL-approved standard electric bench grinders or surface grinders.
- Keep hands and fingers clear of the grinding wheel during operation.
- Ensure the work area is well-lit and free of obstructions.
- Disconnect power to the grinder before making any adjustments or performing maintenance on the attachment.

- Do not force the drill bit against the grinding wheel; allow the wheel to do the work.

3. PRODUCT OVERVIEW

The Drill Grinding Attachment #825 features a robust design for accurate drill bit sharpening. Key components include:

- **Pivoting Neck:** Allows for an all-around grinding action, ensuring both sides of the drill bit are sharpened equally.
- **Adjustable Table:** Translates overhang requirements to achieve the correct point angle for various materials.
- **Non-Marking Depth Stop-Cap:** A safety feature that protects the material's surface and helps maintain consistent sharpening depth.
- **Angle Adjustment Mechanism:** Provides precise control over sharpening angles.

SLEEK DESIGN AND PIVOTING NECK

Fits perfectly on the
corner of any workbench
or table top

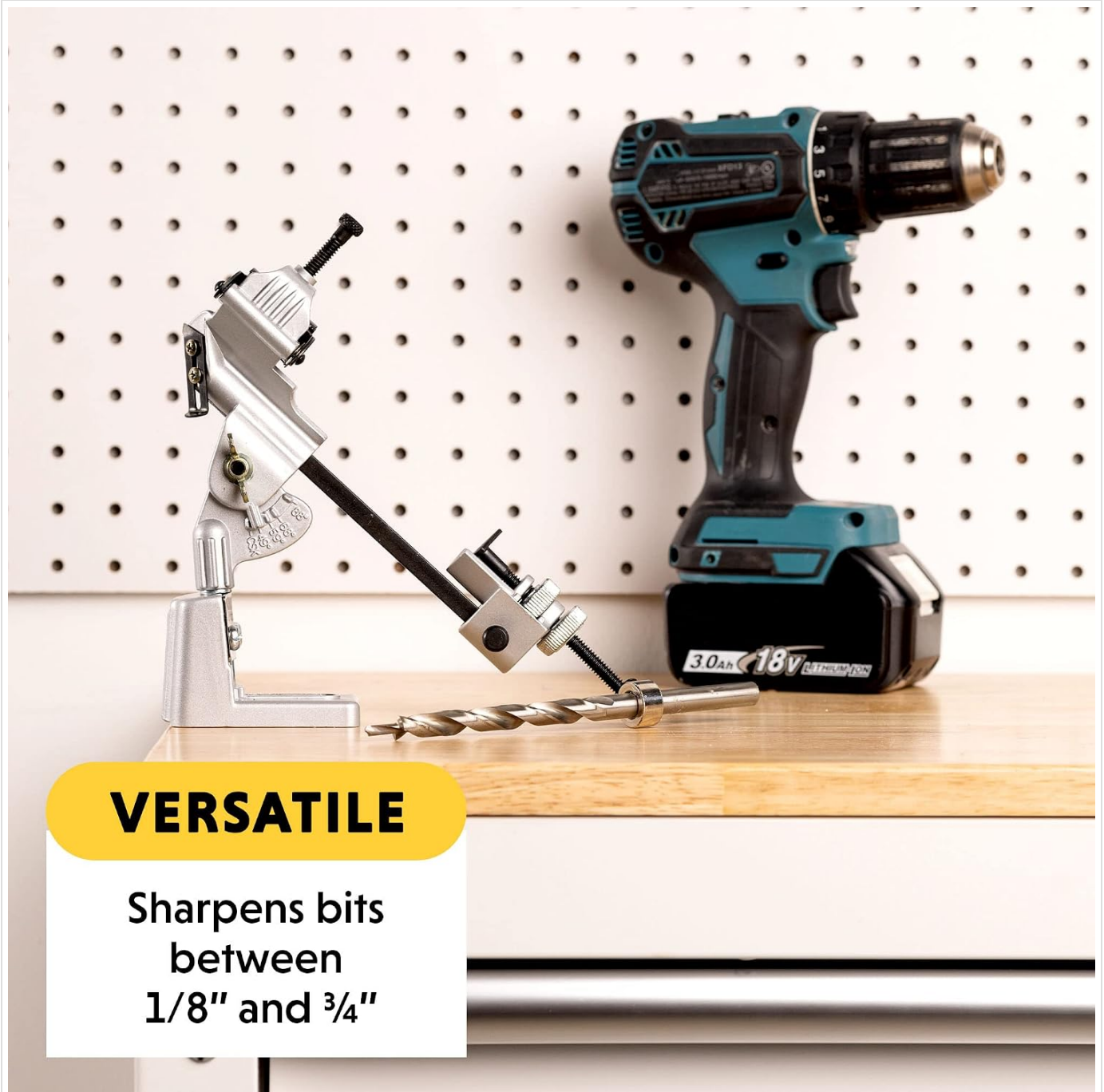


Image 3.1: The Drill Grinding Attachment #825, demonstrating its sleek design and the pivoting neck feature, which allows for precise adjustment during sharpening.

4. SETUP

Proper setup is crucial for accurate and safe operation.

1. **Mounting the Attachment:** Securely attach the Drill Grinding Attachment to a stable workbench or tool stand using a suitable vice clamp. Ensure the attachment is firmly fixed and does not wobble during use.
2. **Positioning the Grinder:** Place your standard electric bench grinder or surface grinder in a position that allows comfortable and safe access to the grinding wheel in relation to the attachment. Ensure the grinder is also securely mounted.
3. **Initial Inspection:** Before connecting power, visually inspect the attachment and grinder for any damage or loose parts.



VERSATILE

Sharpens bits
between
1/8" and 3/4"

Image 4.1: The Drill Grinding Attachment #825 positioned on a workbench, illustrating its readiness for use alongside a cordless drill and various drill bits.

5. OPERATING INSTRUCTIONS

Follow these steps to sharpen your drill bits effectively:

1. **Select Drill Bit:** Choose the drill bit to be sharpened. The attachment is suitable for bits between 1/8" and 3/4" in diameter.
2. **Adjust Angle:** Set the desired sharpening angle on the attachment. The supported standard angles are 88, 68, 59, 49, and 41 degrees. Refer to the angle markings on the attachment for precise setting.
3. **Insert Drill Bit:** Carefully insert the drill bit into the attachment's holder. Adjust the depth stop-cap to ensure the correct amount of bit protrudes for grinding. The non-marking depth stop-cap protects the material's surface.
4. **Engage Grinder:** Turn on your bench grinder. Allow the grinding wheel to reach full speed.
5. **Sharpening Process:** Gently bring the drill bit, held by the attachment, into contact with the rotating grinding wheel. Use the pivoting neck to ensure an even grind on both cutting edges of the drill bit. Apply light, consistent pressure.
6. **Inspect and Repeat:** Periodically remove the drill bit and inspect its cutting edge. Repeat the grinding process as necessary until the desired sharpness and point angle are achieved.
7. **Cool Down:** Allow the drill bit to cool down naturally after sharpening. Do not quench in water, as this can alter the metal's properties.

5.1 Angle Adjustment

The attachment provides clear markings for various sharpening angles. Select the angle appropriate for the material you intend to drill. Common angles include:

- **88 degrees**
- **68 degrees**
- **59 degrees** (Standard for general purpose drilling)
- **49 degrees**
- **41 degrees**



Image 5.1: A detailed view of the angle adjustment mechanism on the Drill Grinding Attachment, showing the clearly marked angles for precise setting.

EXTEND DRILL BIT LIFE

Safely and accurately
hone and sharpen
large and small drill bits



Image 5.2: Hands demonstrating the use of the Drill Grinding Attachment to sharpen a drill bit, illustrating the process of extending drill bit life through accurate honing.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Drill Grinding Attachment.

- **Cleaning:** After each use, wipe down the attachment with a clean, dry cloth to remove any grinding dust or debris.
- **Lubrication:** Periodically apply a light machine oil to moving parts and pivot points to ensure smooth operation.
- **Storage:** Store the attachment in a dry, clean environment to prevent rust and corrosion.
- **Inspection:** Regularly inspect the attachment for any signs of wear, damage, or loose fasteners. Tighten any loose screws or bolts as needed.

7. TROUBLESHOOTING

This section addresses common issues that may arise during the use of the Drill Grinding Attachment.

Issue	Possible Cause	Solution
Drill bit not sharpening evenly	Uneven pressure; incorrect angle setting; attachment not securely mounted.	Ensure consistent pressure. Verify the angle setting. Re-secure the attachment to the workbench.
Difficulty achieving desired point angle	Incorrect angle adjustment; improper bit positioning.	Double-check the angle setting against the markings. Adjust the drill bit's protrusion and rotation within the holder.
Excessive vibration during operation	Attachment or grinder not securely mounted; worn grinding wheel.	Ensure both the attachment and grinder are firmly clamped. Inspect the grinding wheel for balance and wear; replace if necessary.
Drill bit overheating	Excessive pressure; prolonged contact with grinding wheel.	Apply lighter pressure and use shorter, intermittent contact with the grinding wheel. Allow the bit to cool between passes.

8. SPECIFICATIONS

Technical details for the General Tools Drill Grinding Attachment #825:

Feature	Detail
Model Number	825
Dimensions (L x W x H)	4.91 x 4.91 x 7.38 inches
Weight	0.32 ounces
Material	Chrome Vanadium Steel, High Carbon Steel
Supported Drill Bit Sizes	1/8" to 3/4"
Supported Sharpening Angles	88, 68, 59, 49, 41 degrees
Compatibility	ANSI, OSHA, and UL-approved standard electric bench grinders or surface grinders

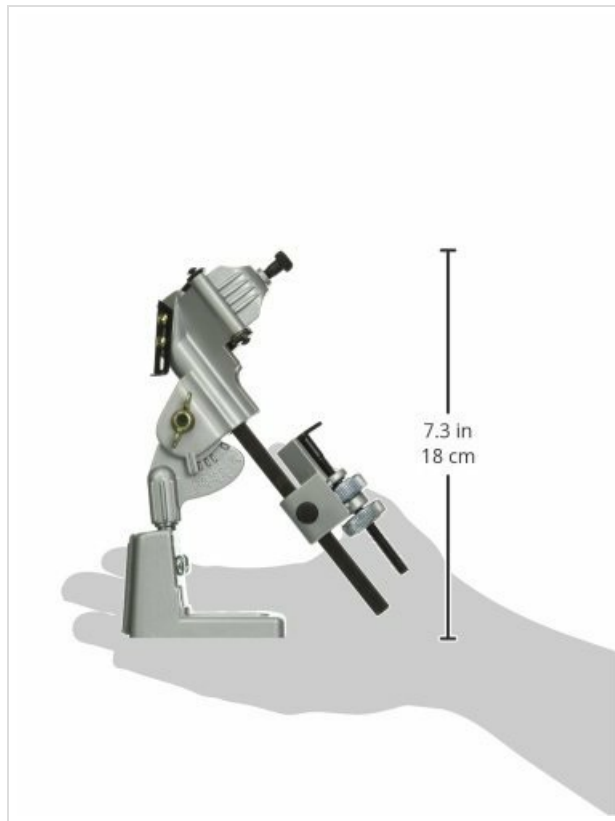


Image 8.1: A visual representation of the Drill Grinding Attachment #825 with its key dimension (7.3 inches in height) indicated, providing a sense of its physical size.

9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please refer to the official General Tools website or contact their customer service department. Specific warranty terms and conditions may vary and are subject to the manufacturer's policies at the time of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question