

## Dremel 4000-2/32

# Dremel 4000-2/32 Variable Speed Rotary Tool Kit User Manual

Model: 4000-2/32

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Dremel 4000-2/32 Variable Speed Rotary Tool Kit. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

The Dremel 4000 is a high-performance rotary tool designed for versatility across various applications, including cutting, sanding, polishing, engraving, and sharpening. It features a powerful 1.6 Amp motor and variable speed control from 5,000 to 35,000 RPM.



Image 1.1: Dremel 4000-2/32 Rotary Tool Kit with its included carrying case and various accessories.

## 2. SAFETY INFORMATION

**WARNING:** Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

### 2.1 General Power Tool Safety

- **Work Area Safety:** Keep your 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and a dust mask when operating the tool. Dress properly; avoid loose clothing or jewelry that can get caught in moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

### 2.2 Specific Rotary Tool Safety

- Always ensure the accessory is securely tightened before operating the tool.
- Do not exceed the maximum RPM rating of the accessory.
- Keep hands and fingers away from rotating accessories.
- Use appropriate accessories for the material being worked on.

### 3. PACKAGE CONTENTS

Your Dremel 4000-2/32 Kit includes the following items:

- Dremel 4000 Rotary Tool (1.6A)
- User Manual
- Wrench
- Tool Fabric Carrying Bag
- A576 Detailer's Grip Attachment
- 565 Multi-Purpose Cutting Kit Attachment
- 32 Assorted Accessories



Image 3.1: Visual representation of the Dremel 4000-2/32 kit contents, including the rotary tool, attachments, and various

## 4. PRODUCT FEATURES

The Dremel 4000-2/32 Rotary Tool is engineered with features to enhance performance and user experience:

- **High-Performance Motor:** A 1.6 Amp motor provides consistent power for demanding tasks.
- **Variable Speed Control:** Adjust speed from 5,000 to 35,000 RPM for optimal control across different materials and applications.
- **Electronic Feedback Control:** Maintains consistent tool speed under load, preventing bogging down during use.
- **Quick-Change Collet Lock:** Facilitates fast and easy accessory changes.
- **Replaceable Motor Brushes:** Allows for extended tool life and easy maintenance.
- **Ergonomic Design:** A sleek body with a 360-degree grip zone ensures comfort and control during prolonged use.
- **Sustainable Housing:** The tool housing is made from over 55% recycled plastic.



Image 4.1: Key features of the Dremel 4000, highlighting the accessory quick-change mechanism, replaceable brushes, and

## 5. SETUP

---

### 5.1 Attaching Accessories

1. Ensure the tool is unplugged from the power source.
2. Press and hold the collet lock button.
3. Unscrew the collet nut using the provided wrench or by hand until it is loose.
4. Insert the shank of the desired accessory fully into the collet.
5. Tighten the collet nut securely with the wrench. Do not overtighten.
6. Release the collet lock button.

### 5.2 Attaching Attachments

Refer to the specific attachment's instructions for detailed installation. Generally, attachments screw onto the threaded collar of the rotary tool after removing the collet nut and collet.

### 5.3 Power Connection

Connect the tool's power cord to a standard 120-volt AC electrical outlet. Ensure the power switch is in the 'OFF' position before plugging in.

## 6. OPERATING INSTRUCTIONS

---

### 6.1 Powering On and Off

To turn the tool ON, slide the ON/OFF switch to the 'ON' position. To turn it OFF, slide the switch to the 'OFF' position.

### 6.2 Adjusting Speed

The Dremel 4000 features a variable speed dial. Rotate the dial to select the desired RPM. Start with a lower speed and gradually increase it as needed for the application and material. Always test on a scrap piece first.

### 6.3 Application Guidance

The Dremel 4000 is suitable for a wide range of tasks. Always use light pressure and let the tool do the work. Excessive pressure can cause the tool to overheat, damage the accessory, or reduce control.

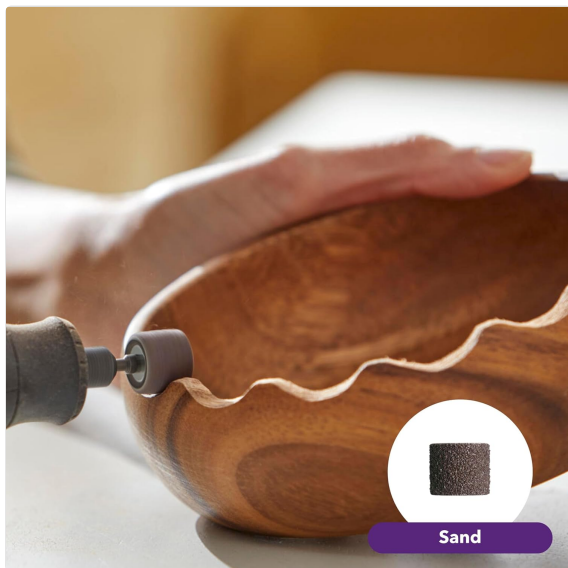
#### Cutting



*Image 6.1: Using the Dremel 4000 with a cutting wheel on a PVC pipe.*

Use cutting wheels for slicing through various materials. Ensure the workpiece is secured. Apply steady, light pressure, allowing the wheel to cut without forcing it.

## Sanding



*Image 6.2: Sanding the edge of a wooden bowl with a Dremel rotary tool.*

Attach sanding bands or discs. Use for smoothing surfaces, shaping, or removing rust. Move the tool continuously to avoid creating grooves or burning the material.

## Engraving





*Image 6.3: Engraving a pattern onto a plastic surface using a Dremel tool.*

Select an engraving cutter. Hold the tool like a pen for precision. Practice on scrap material to achieve desired depth and detail.

## Sharpening



*Image 6.4: Sharpening a metal blade with a Dremel rotary tool and grinding stone.*

Use grinding stones for sharpening blades, garden tools, or deburring metal. Maintain the original angle of the edge for best results.

## Cleaning & Polishing



Image 6.5: Cleaning a rusty metal door hinge with a Dremel tool and wire brush accessory.

Utilize brushes or polishing wheels with appropriate compounds. Ideal for removing rust, cleaning tight spaces, or bringing a shine to various materials.

## 7. MAINTENANCE

### 7.1 Cleaning

Regularly clean the tool's ventilation openings to prevent dust buildup, which can lead to overheating. Use a soft brush or compressed air. Do not use harsh chemicals or abrasive cleaners.

### 7.2 Replacing Carbon Brushes

The Dremel 4000 uses replaceable carbon brushes. Over time, these brushes will wear down and may need replacement. Refer to the detailed instructions in the full Dremel manual for the specific procedure. Always use genuine Dremel replacement brushes.

### 7.3 Storage

Store the tool and accessories in the provided carrying bag in a clean, dry place, out of reach of children.

## 8. TROUBLESHOOTING

If you encounter issues with your Dremel 4000, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	No power supply; ON/OFF switch not engaged; Worn carbon brushes	Check power connection; Ensure switch is fully ON; Inspect and replace carbon brushes if necessary



Problem	Possible Cause	Solution
Reduced power or speed fluctuation	Worn carbon brushes; Overload; Dust buildup in motor	Replace carbon brushes; Reduce pressure on workpiece; Clean ventilation openings
Excessive vibration or noise	Unbalanced accessory; Loose accessory; Damaged accessory	Ensure accessory is properly seated and tightened; Replace bent or damaged accessories
Tool overheats	Blocked ventilation; Excessive pressure; Prolonged use at low speed	Clean ventilation slots; Reduce pressure; Allow tool to cool; Use appropriate speed for task

If the problem persists after attempting these solutions, please contact Dremel customer support or a qualified service technician.

## 9. SPECIFICATIONS

Specification	Value
Model Number	4000-2/32
Brand	Dremel
Voltage	120 Volts
Power Source	Corded Electric
Motor Amperage	1.6 Amps
Minimum Rotational Speed	5,000 RPM
Maximum Rotational Speed	35,000 RPM
Item Weight	16 ounces (1 pound)
Product Dimensions (L x W x H)	13.78 x 3.94 x 9.84 inches
UPC	000346812565

## 10. WARRANTY AND SUPPORT

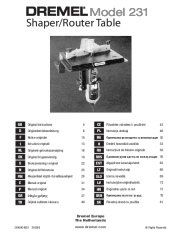





### 10.1 Warranty Information

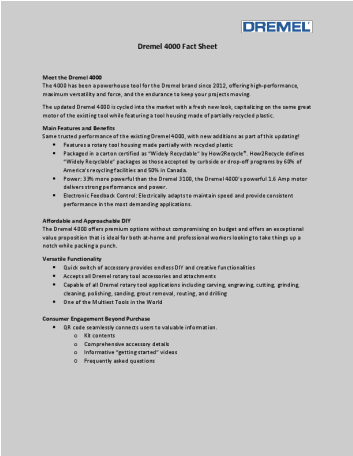
The Dremel 4000-2/32 Rotary Tool Kit comes with a Limited 2-Year Warranty. This warranty covers defects in material or workmanship. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the official Dremel website or the warranty card included with your product.

### 10.2 Customer Support

For technical assistance, replacement parts, or service inquiries, please visit the official Dremel website or contact their customer service department. Contact information can typically be found on the Dremel website or in the packaging materials.

Related Documents - 4000-2/32

	<p><a href="#">Dremel Model 231 Shaper/Router Table User Manual</a></p> <p>Comprehensive user manual and safety guide for the Dremel Model 231 Shaper/Router Table attachment, detailing assembly, operation, safety precautions, and specifications for woodworking tasks.</p>
	<p><a href="#">Dremel 290 Engraver - User Manual and Safety Guide</a></p> <p>Comprehensive user manual and safety guide for the Dremel 290 Engraver. Learn about its features, operation, maintenance, and safety precautions. Includes multilingual support information.</p>
	<p><a href="#">Dremel 8220 Cordless Rotary Tool: Operating and Safety Instructions</a></p> <p>Comprehensive operating and safety instructions for the Dremel 8220 Cordless Rotary Tool. Learn about safe usage, maintenance, accessories, and specifications for this versatile power tool.</p>
	<p><a href="#">Dremel Quick Start Book: Your Guide to Multitools and Projects</a></p> <p>Explore the Dremel multitool system, accessories, and attachments. This quick start guide provides essential information and inspiring project ideas for DIY enthusiasts and crafters.</p>
	<p><a href="#">Dremel Product Safety and Usage Information</a></p> <p>Essential safety instructions and usage guidelines for Dremel product 11294619, covering work area preparation, tool inspection, user focus, and handling by children or individuals with reduced abilities. Includes manufacturer information.</p>
	<p><a href="#">Dremel 3000, 4000, 4300 Rotary Tool User Manual</a></p> <p>Comprehensive user manual for Dremel 3000, 4000, and 4300 rotary tools, covering operation, safety, maintenance, and specifications.</p>



[pdf] Press Release

Microsoft Word 4000 Fact Sheet EN docx Pitec Georgiana PT RT MKX ON Dremel fact sheet en dremel

binaries content assets us press releases newest rotary tool models deliver high performance versatility to meet consumers needs |||

Dremel 4000 Fact Sheet Meet the Dremel 4000 The 4000 has been a powerhouse tool for the Dremel brand ... grinding guide o 25 Genuine Dremel accessories o Wrench manual o Two-year limited warranty Dremel **4000-2/32** Rotary Tool Kit: MSRP of 89.99 USD and is available online at The Home Depot and Amazon ... lang:en score:18 filesize: 581.47 K page\_count: 2 document date: 2024-05-22



[pdf] Accessories

ptoeuxdevfilestore blob core windows net Carve Engrave 561 15K 30K RPM 251 Dremel Accessory 4000 2 32 dremel United States |||

... lang:en score:14 filesize: 5.4 M page\_count: 1 document date: 2024-03-12