

Dremel 3000-2/28

Dremel 3000-2/28 Variable Speed Rotary Tool Kit User Manual

INTRODUCTION

The Dremel 3000-2/28 Variable Speed Rotary Tool Kit is a versatile power tool designed for a wide range of applications, including routing, metal cutting, wood carving, grinding, sanding, polishing, and engraving. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Dremel 3000 rotary tool.

Kit Contents

- (1) Dremel 3000 Corded Rotary Tool
- (2) Attachments: A576 Sanding / Grinding Guide Attachment and 565 Multipurpose Cutting Guide Attachment
- (28) High-quality Dremel accessories
- Plastic storage case
- Accessory case

The Dremel 3000 features a high-performance 1.2AMP motor, offering maximum power and consistent performance across all speeds. Its optimized fan design and side vents, combined with a ball bearing motor construction, ensure cool, quiet, and smooth operation even under high load. The tool's symmetrical design and lightweight housing provide a comfortable and secure grip for enhanced maneuverability and reduced user fatigue.

Product Overview



Image: The Dremel 3000-2/28 Variable Speed Rotary Tool Kit, showcasing the rotary tool, its plastic storage case, and the included 28 accessories and 2 attachments.

IMPORTANT SAFETY INFORMATION

Always read and understand 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.

- **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 use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool for extended periods. Dress properly; do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from 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. Store idle power tools out of the reach of children.
- **Accessory Safety:** Only use accessories specifically designed for rotary tools and rated for the tool's maximum RPM. Ensure accessories are properly installed and secured before operation.

SETUP AND ASSEMBLY

Attaching Accessories

The Dremel 3000 uses a collet system to secure accessories. Ensure the tool is unplugged before changing accessories.

1. **Unplug the Tool:** Always disconnect the tool from the power source.
2. **Loosen the Collet Nut:** Press the shaft lock button and rotate the collet nut counter-clockwise until it is loose.
3. **Insert Accessory:** Insert the shank of the desired accessory fully into the collet.

4. **Tighten the Collet Nut:** While holding the shaft lock button, tighten the collet nut clockwise until the accessory is securely held. Do not overtighten.

Attaching Guide Attachments

The kit includes a Sanding/Grinding Guide (A576) and a Multipurpose Cutting Guide (565).

1. **Unplug the Tool:** Ensure the tool is disconnected from the power source.
2. **Remove Nose Piece:** Unscrew the standard nose piece from the tool.
3. **Attach Guide:** Screw the desired guide attachment onto the threaded collar of the tool until secure.
4. **Adjust Depth (for Cutting Guide):** For the Multipurpose Cutting Guide, adjust the depth by loosening the thumb screw, sliding the guide to the desired depth, and retightening the thumb screw.



Image: The Dremel 3000 rotary tool fitted with a cutting guide attachment, ready for use.

OPERATING YOUR DREMEL 3000

Powering On and Speed Control

The Dremel 3000 features a variable speed control, allowing you to select the optimal RPM for your task and accessory.

1. **Connect to Power:** Plug the tool into a standard 120-volt electrical outlet.
2. **Select Speed:** Use the variable speed dial/switch to select a speed between 5,000 and 35,000 RPM. Start with a lower speed and gradually increase as needed for the material and accessory.
3. **Turn On/Off:** Activate the tool using the power switch.

Recommended Applications

The Dremel 3000 is suitable for a wide array of detailed tasks:

- **Cutting:** Use cutting wheels for metal, plastic, and wood. Ensure proper ventilation and wear appropriate safety gear.



Image: The Dremel 3000 in use, cutting a metal rod, demonstrating its capability for precise metalwork.

- **Grinding and Sharpening:** Abrasive stones and grinding wheels are ideal for sharpening tools, deburring, and smoothing rough edges on metal.



Image: The Dremel 3000 being used to grind a metal object secured in a vise, illustrating its grinding function.

- **Sanding:** Sanding bands and discs can be used for shaping, smoothing, and removing material from wood, plastic, and soft metals.



Image: The Dremel 3000 sanding a wooden surface, showing its application in finishing and shaping wood.

- **Carving and Engraving:** Various carving bits allow for intricate detail work on wood, plastic, and soft metals.

														
Model	9100 FORTI-FLEX	4300	4000	3000	200 SERIES	100 SERIES	2050 STYLO	8220	8100	8050 MICRO	7760 LITE	7700	7300	7000
AMPS	2.5	1.8	1.6	1.2	0.9	0.9	0.5	-	-	-	-	-	-	-
Battery Voltage (V)	-	-	-	-	-	-	-	12 V Max	8 V Max	8 V Max	4 V Max	7.2	4.8	6
Battery Chemistry	-	-	-	-	-	-	-	Removable Li-ion Pack	Removable Li-ion Pack	Integrated Li-ion Cells	Integrated Li-ion Cells	Ni cd	Ni cd	4 AA
Number of Speeds	Variable by Foot Pedal	Variable	Variable	Variable	2	1	Variable	Variable	Variable	Variable	Variable	2	2	2
Speed Range [RPM]	0 to 35,000	5,000 to 35,000	5,000 to 35,000	5,000 to 35,000	15,000 & 35,000	35,000	5,000 to 22,000	5,000 to 35,000	5,000 to 33,000	5,000 to 28,000	8,000 to 25,000	10,000 & 22,000	6,500 & 14,000	7,000 to 18,000
Versatility Level	Intermediate	High	High	Intermediate	Basic +	Basic	Intermediate	High	Intermediate	Basic +	Basic +	Basic +	Basic	Basic
Electronic Feedback Control	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No
LED Lights	-	Yes	-	-	-	-	-	-	-	Yes	No	-	-	-
Soft Grip	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No
Separate ON/OFF Speed Control	Yes	Yes	Yes	No	No	No	Yes	Yes	No	Yes	No	No	No	No
Accessory Change System	Wrench	EZ Twist™ Nose Cap	EZ Twist™ Nose Cap	EZ Twist™ Nose Cap	Wrench	Wrench	Wrench	EZ Twist™ Nose Cap	EZ Twist™ Nose Cap	Wrench	EZ Twist™ Nose Cap	Wrench	Wrench	Wrench
Weight [oz.] /Width/Length [in.]	117/1.5/9	25/1.5/9	22.5/1.5/9	20/2.5/7.5	18/1.5/7.5	18/1.5/7.5	6.8/1.25/6	22/3/9	14/1.5/8.5	8/1.5/8	9.6/1.5/7.5	12/1.75/10.8	9/1.75/9	9/1.75/6
Warranty	2 year	2 year	2 year	2 year	2 year	2 year	2 year	2 year	2 year	2 year	2 year	2 year	2 year	2 year

Image: The Dremel 3000 being used for carving intricate details into a piece of wood, highlighting its precision

capabilities.

- **Polishing and Cleaning:** Polishing wheels and brushes can restore shine to metals and plastics, or clean various surfaces.

Always ensure the workpiece is securely clamped or held. Apply light, consistent pressure and let the tool do the work. Avoid excessive pressure, which can lead to overheating or damage to the tool or accessory.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Dremel 3000 rotary tool.

- **Cleaning:** After each use, wipe down the tool with a clean, dry cloth. Use a soft brush or compressed air to clear dust and debris from the ventilation openings. Do not use harsh chemicals or abrasive cleaners.
- **Accessory Care:** Clean accessories after use and store them in their designated case to prevent damage and loss. Replace worn or damaged accessories promptly.
- **Cord Inspection:** Periodically inspect the power cord for any signs of damage, cuts, or fraying. If damaged, have it repaired by a qualified service technician.
- **Storage:** Store the tool and accessories in a dry, secure location, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Dremel 3000 rotary tool.

Problem	Possible Cause	Solution
Tool does not turn on.	No power supply; faulty switch; damaged cord.	Check power outlet and connections. Ensure switch is fully engaged. Inspect cord for damage. If issues persist, seek professional service.
Tool loses power or slows down during use.	Overload; clogged ventilation; worn brushes (less common in newer models).	Reduce pressure on the workpiece. Clear ventilation openings. Allow tool to cool down.
Excessive vibration or noise.	Improperly installed or damaged accessory; bent shaft.	Ensure accessory is correctly and securely installed. Replace bent or damaged accessories.
Speed control is inconsistent at lower settings.	Normal operation for some variable speed tools; minor internal wear.	Ensure the speed dial is set firmly. If the issue significantly impacts performance, contact Dremel support.

If you encounter a problem not listed here or if the suggested solutions do not resolve the issue, please contact Dremel customer support for assistance.

SPECIFICATIONS

The following are the technical specifications for the Dremel 3000-2/28 Variable Speed Rotary Tool Kit:

Feature	Detail
Model Number	3000-2/28

Feature	Detail
Brand	Dremel
Voltage	120 Volts
Wattage	175 watts
Power Source	Corded Electric
Minimum Rotational Speed	5,000 RPM
Maximum Rotational Speed	35,000 RPM
Item Weight	0.01 Ounces (Tool only, approximate)
Product Dimensions (L x W x H)	11.5 x 3.13 x 8.25 inches (Packaging dimensions)
Special Features	Lightweight, Variable Speed

Warranty and Support

Warranty Information

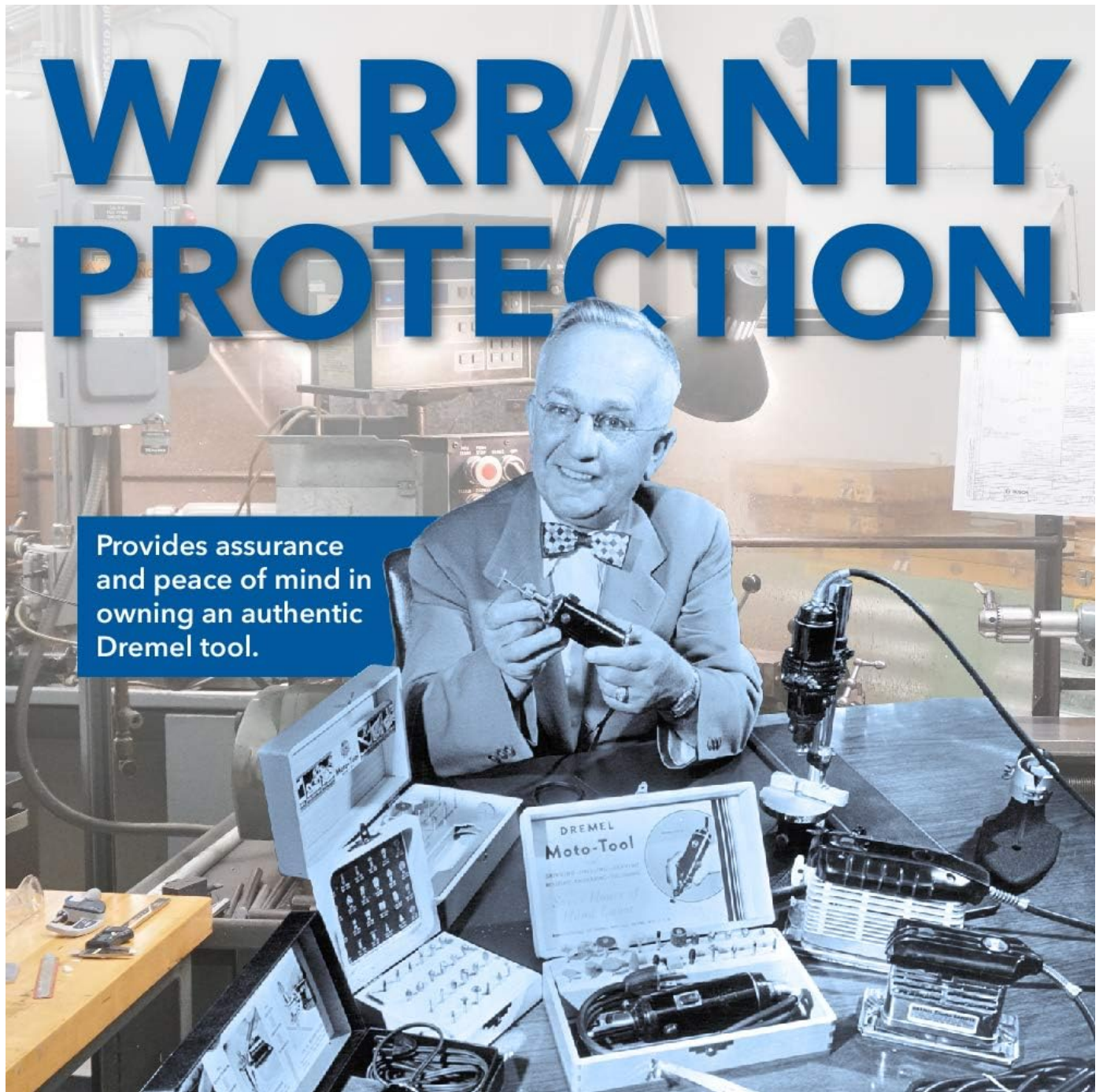
The Dremel 3000-2/28 Variable Speed Rotary Tool Kit is backed by a **Limited Two-Year Warranty**. This warranty provides assurance and peace of mind in owning an authentic Dremel tool. Please refer to the official Dremel warranty documentation for full terms and conditions.



Image: A historical image illustrating Dremel's commitment to warranty protection, ensuring peace of mind for tool owners.

Quality Engineering

Dremel tools undergo rigorous testing for safety and performance, reflecting a commitment to quality engineering.



Provides assurance
and peace of mind in
owning an authentic
Dremel tool.

Image: A vintage photograph emphasizing Dremel's dedication to quality engineering through meticulous assembly and testing processes.

Customer Service

For any questions, technical assistance, or warranty claims, please contact the Dremel customer service team. A USA-based customer service team is available via chat, email, phone, or by visiting their facility in Racine, WI.

QUALITY ENGINEERING



Rigorous testing for safety and performance is core to our DNA.

Image: The Dremel headquarters building, symbolizing the availability of a USA-based customer service team for support.

Additional Resources

A comprehensive User Guide (PDF) is available for download at: [Dremel 3000 User Guide PDF](#).

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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.

Name

Anonymous

Email

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