

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Dremel](#) /
- › [Dremel 8220 12-Volt Max Cordless Rotary Tool Kit Instruction Manual](#)

Dremel 8220

Dremel 8220 12-Volt Max Cordless Rotary Tool Kit Instruction Manual

Model: 8220

1. INTRODUCTION AND OVERVIEW

The Dremel 8220 variable-speed cordless rotary tool offers the highest performance and versatility of all Dremel cordless rotary tools. Its powerful motor ensures maximum performance across all speed levels. Designed to be compatible with all existing Dremel accessories and attachments, the Dremel 8220 facilitates a wide range of projects including engraving, sanding, polishing, cutting, and more. Its slim, ergonomic body provides a 360-degree grip zone for enhanced control in any position. Powered by 12VMAX Lithium-ion battery technology, the Dremel 8220 delivers extended run-time, making it ideal for demanding applications.



2. PACKAGE CONTENTS

Your Dremel 8220-1/28 kit includes the following items:

- Dremel 8220 Cordless Rotary Tool
- 12VMAX Lithium-ion Battery
- 1-Hour Charger
- 1 Multi-purpose Cutting Guide Attachment
- 28 High-Quality Dremel Accessories (various types for sanding, polishing, cutting, grinding, etc.)
- Plastic Storage Case
- Accessory Case
- Wrench

DREMEL®

8220-1/28 KIT CONTENTS



KIT 8220-1/28

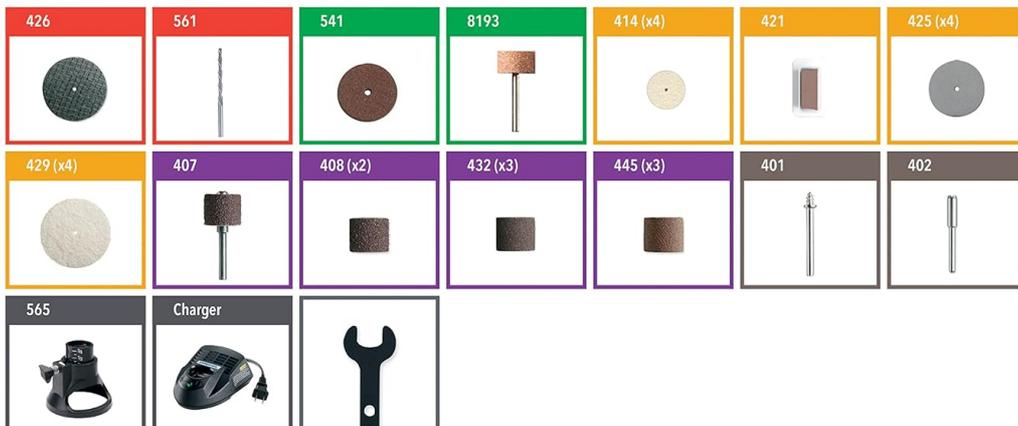


Image: A visual representation of the Dremel 8220-1/28 kit contents, including the rotary tool, charger, and various accessories in their storage cases.

3. PRODUCT FEATURES

The Dremel 8220 is engineered with features to enhance performance, versatility, and user comfort:

- **High-Performance Motor:** Designed for demanding applications, providing maximum power at all speeds.
- **Variable Speed Control:** Adjust speeds from 5,000 to 30,000 RPM for optimal control across different tasks and materials.
- **12V Lithium-Ion Battery:** Offers extended run-time and consistent power delivery.
- **Quick Collet Lock:** Facilitates fast and easy accessory changes without the need for a separate wrench.
- **Slim and Ergonomic Body:** Features a 360-degree grip zone for comfortable handling and precise control in tight spaces.
- **Accessory and Attachment Compatibility:** Works with all Dremel rotary accessories and attachments, expanding its application range.

DREMEL®

8220-1/28 WALKAROUND

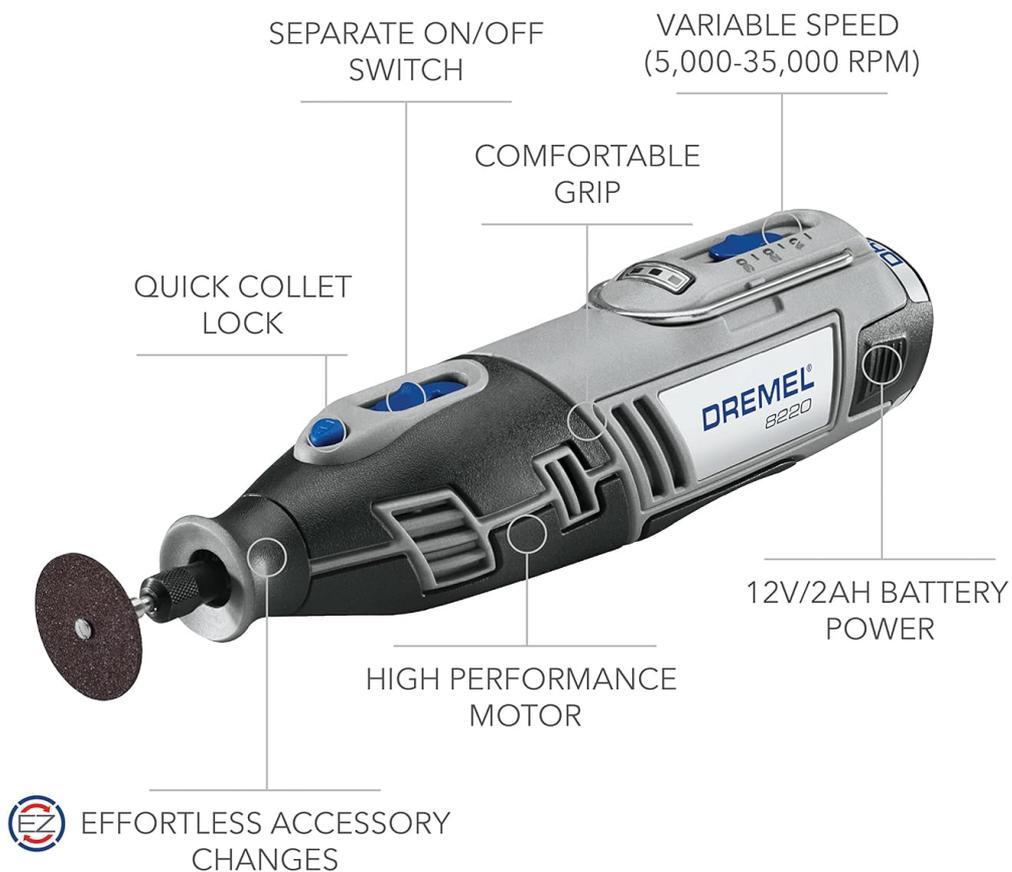


Image: A detailed diagram highlighting key features of the Dremel 8220, including the separate on/off switch, variable speed dial, comfortable grip, quick collet lock, high-performance motor, and 12V/2AH battery power.



Image: Examples of the Dremel 8220's versatile applications, including carving/engraving, cutting, grinding/sharpening, cleaning/polishing, and sanding.

Your browser does not support the video tag.

Video: An official Dremel video showcasing the Dremel 8220 as a perfect multi-tool for various projects, demonstrating its versatility and ease of use.

4. SETUP

4.1 Battery Installation

1. Ensure the tool is turned off.
2. Align the 12VMAX Lithium-ion battery with the battery slot at the base of the tool.
3. Slide the battery firmly into place until it clicks, indicating it is securely locked.

4.2 Charging the Battery

1. Connect the 1-hour charger to a standard power outlet.
2. Insert the 12VMAX Lithium-ion battery into the charger.
3. The charger's indicator light will show the charging status. A full charge typically takes about one hour.

4. Once fully charged, remove the battery from the charger.

4.3 Attaching Accessories

1. Press and hold the blue collet lock button located near the spindle.
2. Unscrew the collet nut counter-clockwise until the collet opens.
3. Insert the shank of the desired accessory into the collet. Ensure the accessory is fully seated.
4. While still holding the collet lock button, tighten the collet nut clockwise until the accessory is secure. Use the included wrench for final tightening if necessary.
5. Release the collet lock button.

DREMEL®

ATTACHMENT TO CUT

565 MULTI-PURPOSE CUTTING GUIDE



Image: The Dremel 565 Multi-purpose Cutting Guide Attachment, showing its easy screw-on installation, adjustable cutting depth up to 3/4 inch (2 cm), and large visibility window for sturdy and controlled cuts.

5. OPERATING INSTRUCTIONS

5.1 Power On/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.

5.2 Adjusting Speed

The Dremel 8220 features a variable speed dial. Slide the blue speed selector switch to your desired RPM setting, ranging from 5,000 RPM (lowest setting) to 30,000 RPM (highest setting). Always start with a lower speed and gradually increase it as needed for the material and accessory being used.

5.3 General Operation Tips

- Always wear appropriate safety gear, including eye protection and gloves.
- Allow the tool to reach full speed before contacting the workpiece.
- Apply light pressure. Let the tool and accessory do the work. Excessive pressure can cause the tool to slow down, overheat, or damage the workpiece.
- Maintain a firm grip on the tool, utilizing its ergonomic design for optimal control.



Image: A close-up of a hand holding the Dremel 8220, emphasizing its 360-degree soft grip for comfort and control during operation.

6. MAINTENANCE

6.1 Cleaning

- Regularly clean the tool's ventilation openings to prevent overheating. Use a soft brush or compressed air.

- Wipe the tool's exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Clean accessories after each use to maintain their effectiveness and prolong their lifespan.

6.2 Storage

Store the Dremel 8220 and its accessories in the provided storage case in a dry, secure location away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

- **Tool Not Turning On:** Ensure the battery is fully charged and properly inserted. Check the ON/OFF switch position.
- **Reduced Performance/Overheating:** Clean ventilation openings. Ensure the correct accessory and speed are used for the task. Avoid excessive pressure.
- **Battery Not Charging:** Verify the charger is properly plugged into a working outlet. Ensure the battery is correctly seated in the charger. If the issue persists, the charger or battery may need replacement.
- **Accessory Wobbles:** Ensure the accessory shank matches the collet size and is securely tightened.

8. SPECIFICATIONS

Feature	Specification
Brand	Dremel
Model Number	8220
Voltage	12 Volts
Power Source	Battery Powered (Cordless)
Maximum Rotational Speed	30,000 RPM
Minimum Speed	5,000 RPM
Battery Type	12VMAX Lithium-ion
Item Weight	1.6 Pounds
Item Dimensions	9 x 3 x 13.75 inches

Feature	Specification
Included Components	Tool, (1) Multi-purpose Cutting Attachment, (28) Accessories, Micro-Case, Wrench, 1-Hour Charger, 12VMAX Lithium-ion battery

9. WARRANTY AND SUPPORT

The Dremel 8220 Rotary Tool comes with a **2-year limited warranty**. Please refer to the warranty card included in your kit for full details on coverage and terms. For technical support, replacement parts, or further assistance, please visit the official Dremel website or contact Dremel customer service.



Image: A graphic indicating the Dremel 8220 comes with a 2-year limited warranty.

