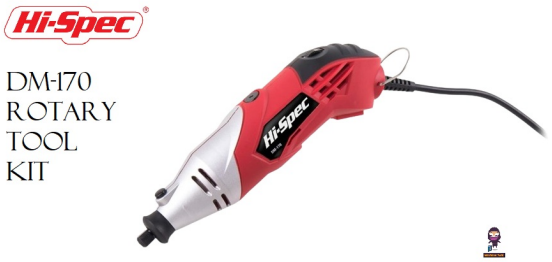
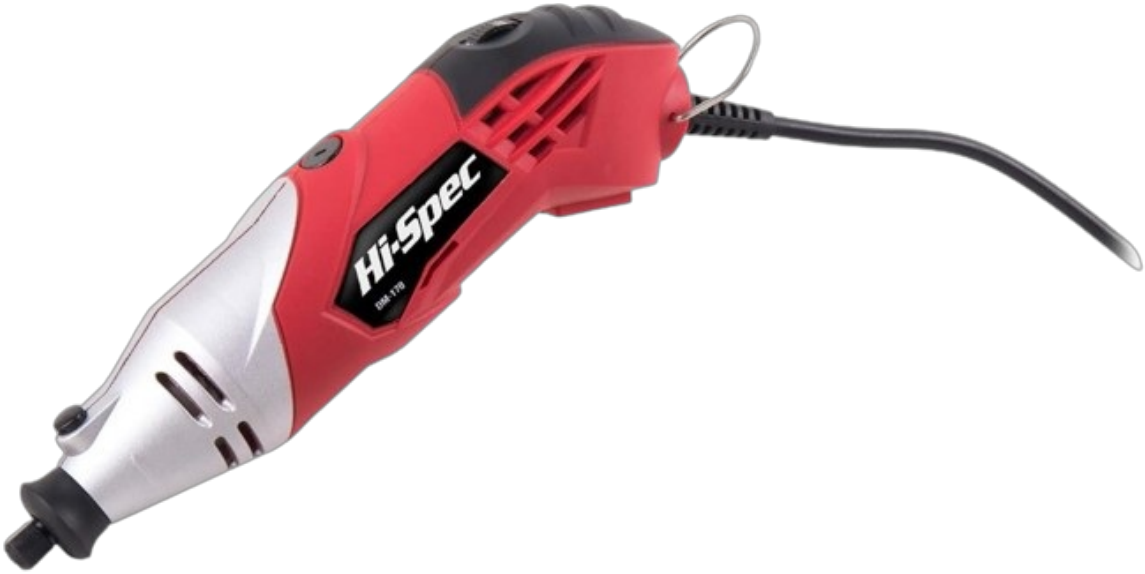


Hi-Spec DM-170 Rotary Tool Kit Instruction Manual

Contents

Hi-Spec DM-170 Rotary Tool Kit



INTRODUCTION

The Hi-Spec DM-170 Rotary Tool Kit is a strong, flexible, and small tool that can be used for many different jobs. This tool is a must-have for pros and do-it-yourselfers alike because it can be used to cut, sand, grind, deburr, and polish. The DM-170 has a maximum speed of 35,000 RPM and a speed control that you can change. This makes it easy to change the power for different jobs. For just **$29.99**, it's a cheap option for anyone who needs to do heavy-duty work or small details. The Hi-Spec name is known for making high-quality tools at prices that most people can afford. This makes sure that the DM-170 can easily handle a variety of tasks. It was released as an electric model with a cord, and it gives you steady, nonstop power for hours on end, making it a great addition to any tool collection.

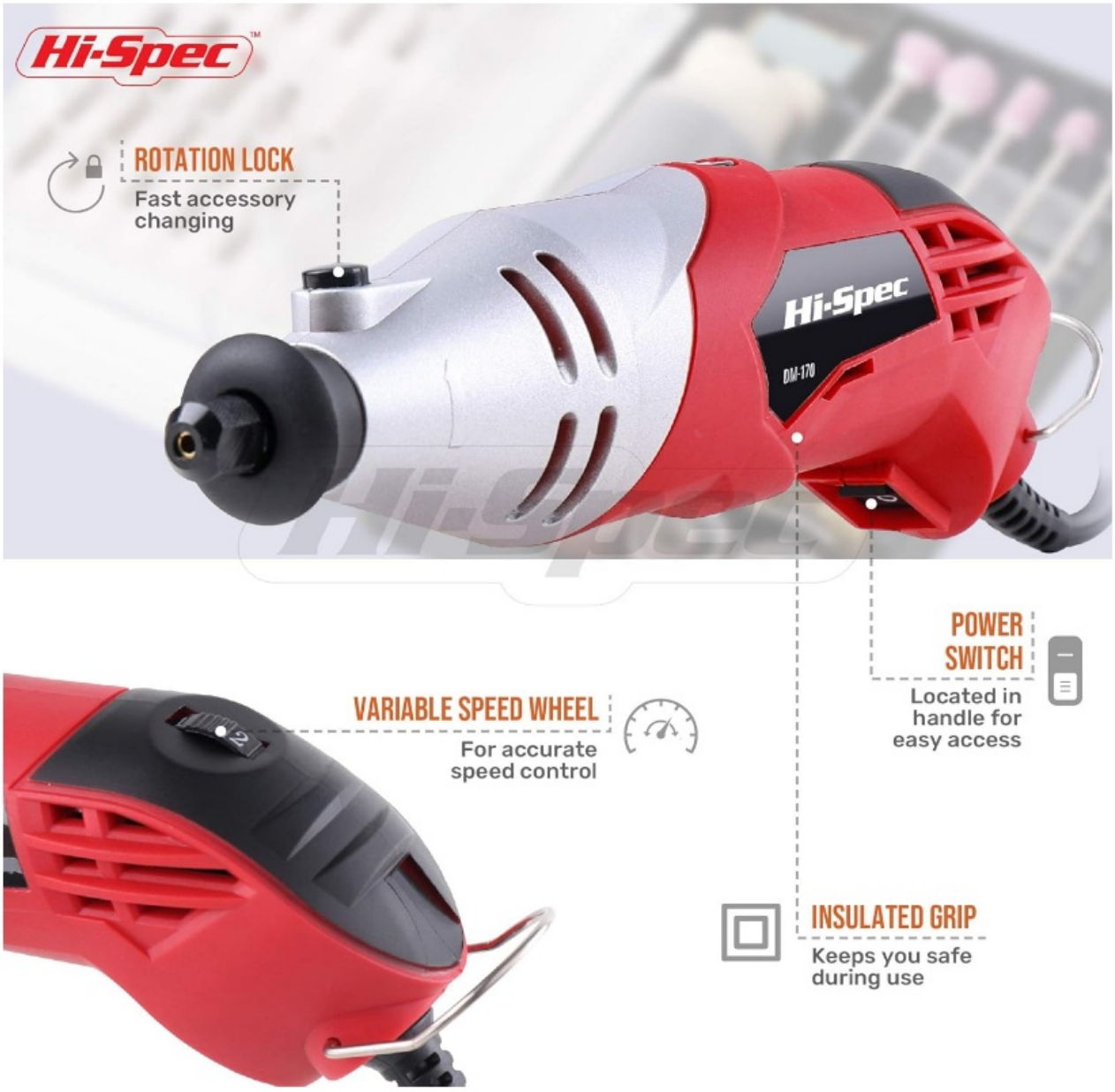
SPECIFICATIONS

Brand Name	Hi-Spec
Price	$29.99
Item Dimensions	10.24 x 6.3 x 2.36 inches
Item Weight	0.9 Kilograms
Maximum Rotational Speed	35,000 RPM
Special Features	Compact, Multi-use, Electric, Variable Speed
Minimum Speed	8,000 RPM
Power Source	Corded Electric
Recommended Uses For Product	Cutting, Sanding, Deburring, Polishing, Grinding
Voltage	120 Volts
Model Number	DM-170

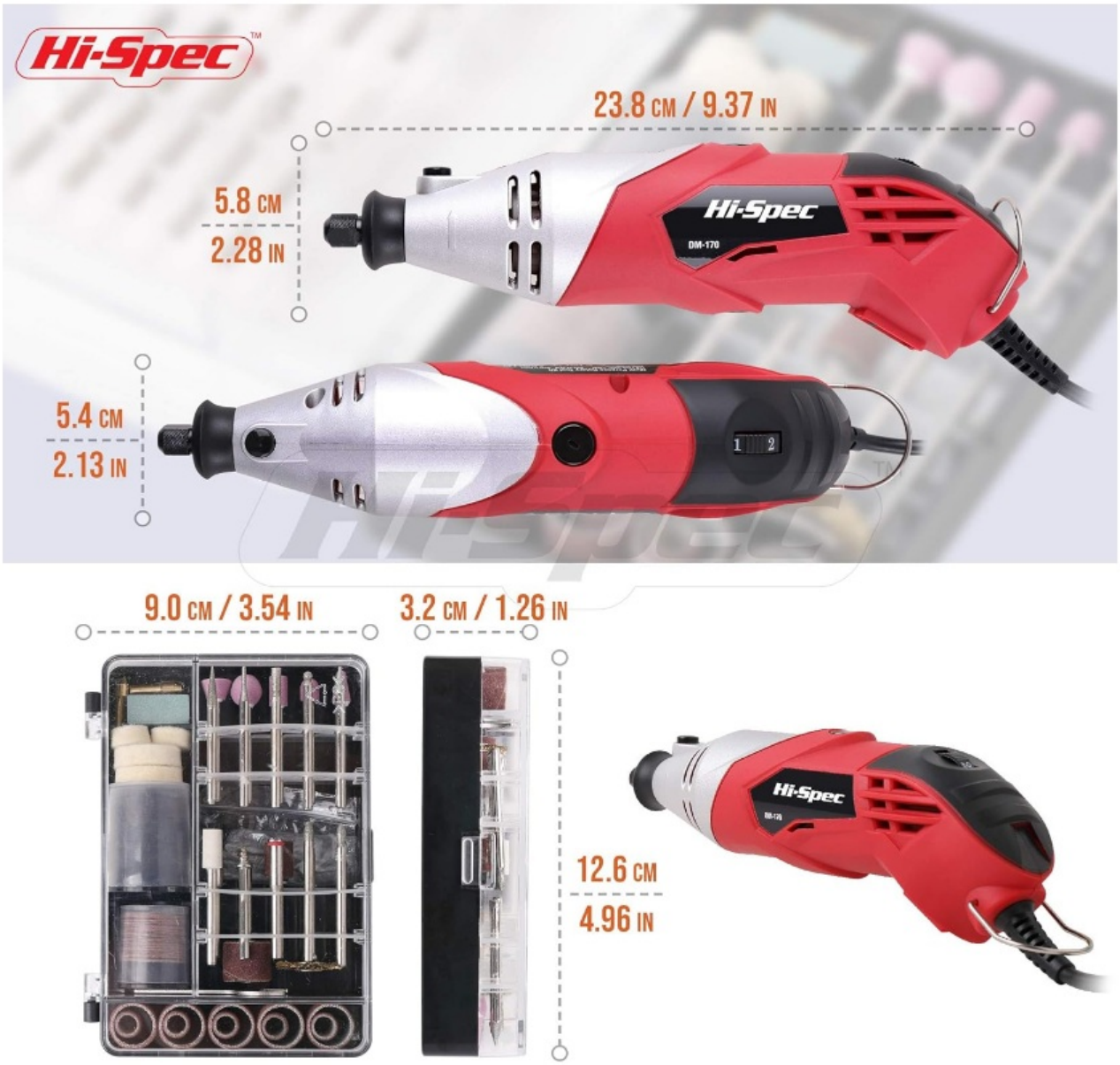
WHAT'S IN THE BOX

- Rotary Tool Kit
- Manual

PRODUCT OVERVIEW



PRODUCT DIMENSIONS

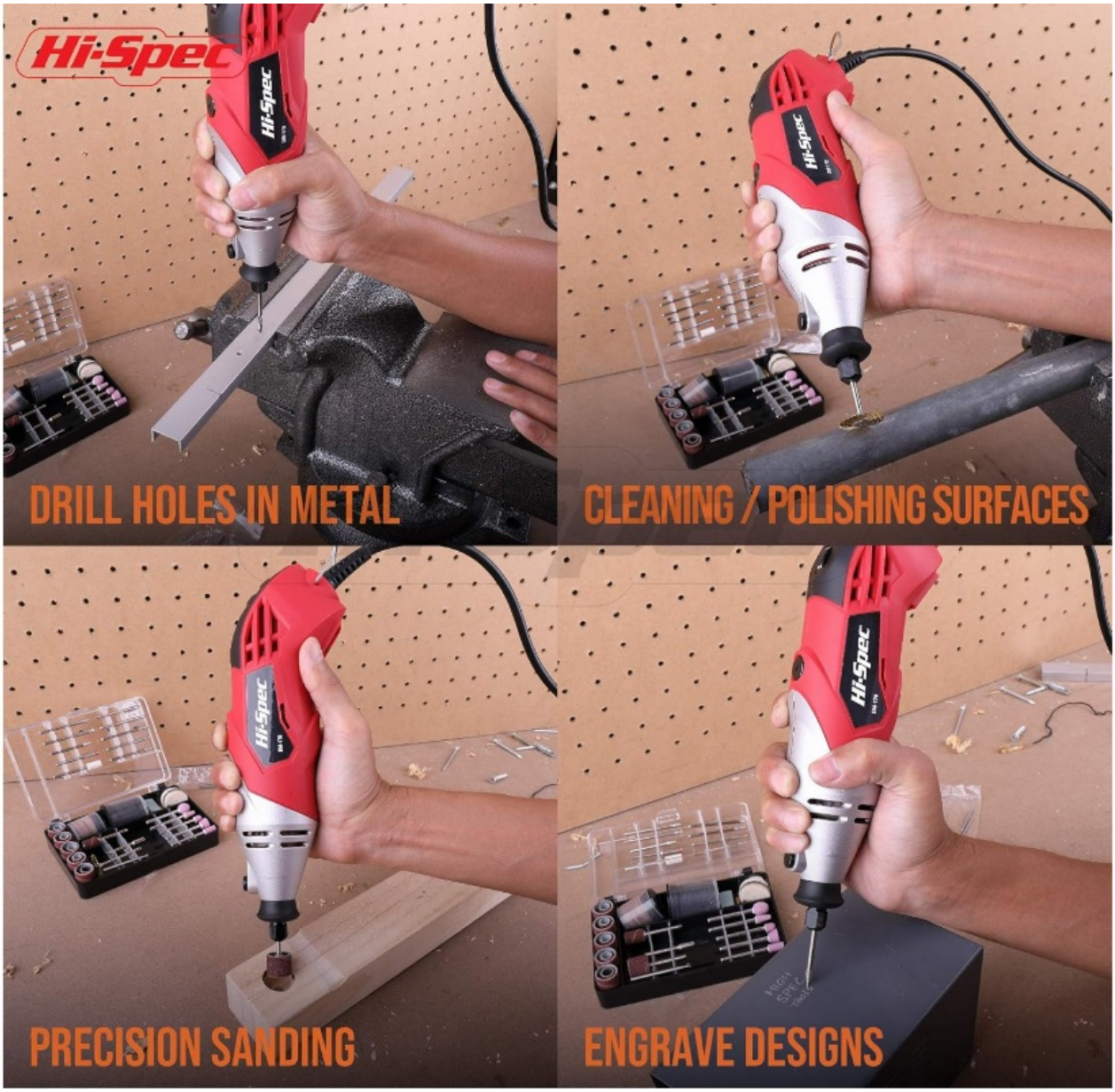


FEATURES

- **Multi-Use**: It can be used for sanding, cutting, grinding, engraving, and polishing, making it perfect for do-it-yourself projects, fixes, and precise craftwork.
- **Higher-Speed Motor**: It has a 160W, 1.4A electric motor that can go from 8,000 to 35,000 RPM, which lets it work quickly and well.
- **Versatile Accessories**: This set comes with 120 accessories that work with the Dremel. These include sanding bands, cut-off wheels, grinding stones, and brushes that can be used for different jobs.
- **Cutting and Engraving**: It comes with diamond-point steel drill bits that can be used to cut, engrave, and mark glass, metal, and wood.
- **Variable Speed Control**: The speed can be quickly changed from 8,000 to 35,000 RPM, giving you more control for delicate tasks or rougher sanding and cutting.
- **Lightweight Design**: The tool is small and well-designed, and it weighs only 0.9 kilos. This makes it easy to hold and control for long periods of time.
- **High-Power**: The 170W motor makes sure that you can use the tool for tougher jobs without it slowing down or losing its power.
- **Precision Grinding**: You can sharpen tools, get rid of burrs, and grind metals, stone, glass, and pottery with

the grinding stones that come with the set.

- **To Polish and Buff**: Felt wheels and discs are included. These can be used to give jewelry, metal, and other objects a fine shine.



- **Cutting Capability**: It comes with Emery paper cut-off wheels and other tools for cutting metal, plastic, and wood.
- **Deburring and Rust Removal**: The kit has nylon and brass bristle brushes that can be used to clean surfaces and get rid of rust.
- **HSS Drill Bits**: It has three different-sized HSS drill bits (1.5 mm, 2.3 mm, and 3.2 mm) for making precise holes in different materials.
- **Tool Maintenance**: This comes with a cleaning stone that can be used to re-grind the grinding stones so that the tool keeps working at its best.
- **Step-by-Step Manual**: This is an owner's manual with pictures and clear directions on how to set it up and use it.
- **Portable and Easy to Store**: All of the tools and extras come in a handy box that makes it simple to carry and keep everything in order.

SETUP GUIDE

- **Open the box** and check that all the parts are inside, including the 120 pieces, the rotary tool, the collets, and the owner's instructions.
- **Collet Insertion**: Pick the right collet size (1.5mm, 2.3mm, or 3.2mm) for the tool you want to use and then put it into the chuck.
- **Put in Accessories**: Put the bit you want to use, like a sanding band or grinding stone, into the collet and tighten it down.
- **Plug the Line into a 120V Wall Outlet** to connect it to power. Make sure the cord is not broken and that it fits properly in the tool.
- **Change the Speed**: Use the variable speed dial to set the rotary tool to the speed you want (8,000 to 35,000 RPM), based on the job.
- **Safety First**: Make sure the tool is not plugged in before using it and while changing accessories to avoid crashes.
- **Pick the Right Bit for the Job**: To get the best results, choose the right tool for the job, whether you're sanding, engraving, or cutting.
- **Make Sure You Have a Steady Hand**: Hold the tool strongly but comfortably to keep full control, especially when doing detailed work like engraving or polishing.
- **Test Run**: Before you start the real job, give the tool a quick test run on some scrap material to see how well it works.
- **Cutting Jobs**: To cut, use the right cutting disc or saw blade and make sure the object is clamped down tightly to keep it stable.
- **For Engraving and Shaping**: Use the bits with diamond tips; make sure to change the speed to get clean cuts.
- **Sanding and Polishing**: To smooth and buff surfaces, attach the sanding or polishing wheel and change the speed to get the finish you want.
- **Use the Grinding Stones**: To sharpen or clean metal or stone surfaces, use the grinding stones that come with the kit at medium to high speeds.
- **Controlling Dust**: If you're going to sand or grind something, do it in a well-ventilated area or wear safety gear like gloves and a dust mask.
- **When You're Done**: Turn off the tool, unplug it, and clean it up before putting it away to keep it in good shape.

CARE & MAINTENANCE

- **Unplug After Use**: Always unplug the tool when you're done using it or when you want to change the extras that come with it.
- **Keep Dry**: Keep the rotary tool dry when you store it and use it so that water doesn't damage the electrical parts.
- **Clean Often**: After each use, wipe the tool down to get rid of dust and other particles, especially from the motor and air holes.
- **Watch Out for Wear**: Accessories like grinding stones and sanding bands should be checked for signs of wear on a regular basis and used as needed.
- **Apply a Small Amount of Rubbing Oil** to the moving parts of the tool if it starts to make too much noise or move too slowly.

- **How to Store It**: To keep the tool and its parts from getting broken or lost, keep them in the box that came with it.
- **Check Power Line**: Check the power line often for fraying, cuts, or signs of wear. If it’s broken, replace it to ensure safety.
- **Collection of Dust**: If you’re working with things that make a lot of dust, like wood or plastic, you might want to use a dust extraction system.
- **Keep the Speed Control in Good Shape**: If the variable speed control stops working, use a soft brush to clean the dial of any dirt or other waste.
- **Check the Collets and Mandrels**: Look for any damage or wear on the collets and mandrels and repair them if needed.
- **Ventilation Maintenance**: To keep the machine from getting too hot while it’s being used, make sure the holes for airflow are clean.
- **Sharpen Accessories**: To keep grinding stones working well, use the dressing stone to re-sharpen them.
- **Keep It Cool**: Let the tool cool down after long use before putting it away to keep it from getting too hot and to make it last longer.
- **Change Broken Parts**: If an attachment or bit breaks, get rid of it safely and get a new one to avoid accidents.

TROUBLESHOOTING

Issue	Possible Cause	Solution
Tool not turning on	Power not connected properly	Ensure the power cord is securely plugged into the outlet and tool.
Speed settings unresponsive	Faulty speed control switch	Clean or check the speed control dial, or contact customer service.
Tool overheats	Prolonged use without breaks	Turn off the tool and allow it to cool down. Avoid using it for too long at once.
High vibration during operation	Loose or worn-out accessories	Tighten any loose parts and check if accessories need replacing.
Tool making strange noise	Worn-out motor or internal parts	Inspect the tool for damage and replace any faulty parts.
Inconsistent speed	Faulty power supply or cord issue	Check the cord for damage and ensure the power source is stable.
Over-sanding or over-cutting	Using too much pressure	Reduce the pressure applied to the tool and let it work naturally.
Grinding results not smooth	Incorrect attachment or speed setting	Select the right attachment and adjust the speed based on material type.
Tool vibrates excessively	Loose internal components or accessories	Tighten internal screws and ensure attachments are securely fixed.
Accessory not fitting	Incorrect accessory size	Double-check that the accessory is the correct size for the tool.
Motor not reaching full power	Dirty air vents or clogged motor	Clean air vents and ensure the motor is free from debris.
Tool cutting too slowly	Incorrect speed setting for the material	Adjust the speed for a faster cutting or grinding performance.
Excessive dust or debris	Using the tool on unsuitable materials	Use the tool on appropriate materials and wear protective gear.
Tool shuts off suddenly	Overheating or electrical short	Let the tool cool down or check for electrical issues.
Cord gets tangled	Cord not coiled properly after use	Store the tool properly, coiling the cord to prevent tangling.

PROS & CONS

Pros:

- Powerful 35,000 RPM for effective cutting and grinding.
- Variable speed control to adjust for different materials and tasks.
- Compact and lightweight design for easy handling.
- The affordable price of $29.99 makes it accessible for many users.
- Multi-use functionality for a wide range of tasks like sanding, polishing, and deburring.

Cons:

- Corded design limits mobility compared to cordless tools.
- High speed may be too much for delicate tasks.
- Limited accessories included, requiring additional purchases for full functionality.
- Can get hot with prolonged use due to continuous power.
- Noise levels may be higher during operation, especially at high speeds.

WARRANTY

The **Hi-Spec DM-170 Rotary Tool Kit** comes with a **1-year warranty**, ensuring peace of mind for users. This warranty covers any defects in materials or workmanship during normal use. If issues arise within the warranty period, **Hi-Spec** offers a repair or replacement option. The warranty does not cover damage caused by misuse, neglect, or unauthorized modifications. Always follow the manufacturer's care and usage guidelines to ensure your tool lasts throughout the warranty period and beyond.

FREQUENTLY ASKED QUESTIONS

What is the price of the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit is priced at $29.99, offering a versatile and affordable tool for various DIY tasks.

What is the maximum rotational speed of the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit has a maximum rotational speed of 35,000 RPM, providing high-speed performance for demanding tasks like sanding, cutting, and grinding.

What is the minimum speed of the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit features a minimum speed of 8,000 RPM, ideal for more delicate tasks requiring lower speeds, such as polishing and detailing.

What power source does the Hi-Spec DM-170 Rotary Tool Kit use?

The Hi-Spec DM-170 Rotary Tool Kit is corded, meaning it is powered by an electric outlet, ensuring uninterrupted power for continuous work.

What is the voltage of the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit operates at a voltage of 120 volts, making it suitable for standard household electrical outlets.

What are the recommended uses for the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit is ideal for a variety of tasks, including cutting, sanding, deburring, polishing, and grinding.

What are the special features of the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit is compact, multi-use, electric, and features variable speed control for versatility and ease of use across a range of projects.

What is the weight of the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit weighs 0.9 kilograms, making it a manageable weight for both experienced and beginner users.

What are the item dimensions of the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit has dimensions of 10.24 x 6.3 x 2.36 inches, making it compact and easy to store in a toolbox or drawer.

How does the variable speed control on the Hi-Spec DM-170 Rotary Tool Kit work?

The Hi-Spec DM-170 Rotary Tool Kit features a variable speed dial that allows users to adjust the speed from 8,000 RPM to 35,000 RPM, providing flexibility for different tasks.

What types of materials can the Hi-Spec DM-170 Rotary Tool Kit be used on?

The Hi-Spec DM-170 Rotary Tool Kit is versatile enough for use on materials like wood, metal, plastic, ceramic, and stone, depending on the accessory attachment.

What is the power consumption of the Hi-Spec DM-170 Rotary Tool Kit?

The Hi-Spec DM-170 Rotary Tool Kit consumes power based on its 120V corded electric design, making it energy-efficient for most home projects.

Why is my Hi-Spec DM-170 Rotary Tool Kit not turning on?

If your Hi-Spec DM-170 Rotary Tool Kit isn't turning on, first check if it's properly plugged in or, if it's a rechargeable model, if the battery is charged. Ensure the power switch is in the on position and that the cord is not damaged.

Why does the Hi-Spec DM-170 Rotary Tool Kit overheat during use?

Overheating of the Hi-Spec DM-170 Rotary Tool Kit can occur if it's being used for an extended period or with excessive pressure. Try using the tool in short bursts and allow it to cool down periodically. Avoid forcing it during tasks.

Why is the Hi-Spec DM-170 Rotary Tool Kit making a strange noise?

A strange noise from the Hi-Spec DM-170 Rotary Tool Kit could indicate a loose attachment or debris inside the tool. Turn off the tool, remove the attachment, and inspect the motor and collet for any signs of damage or blockage.

VIDEO – PRODUCT OVERVIEW

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https://manuals.plus/wp-content/uploads/2024/11/Hi-Spec-DM-170-Rotary-Tool-Kit-Instruction-Manual.mp4

References

- User Manual