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YUCHENGTECH E-003

YUCHENGTECH 2800W Concrete Grinder (Model E-003) Instruction Manual

Model: E-003 | Brand: YUCHENGTECH

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your YUCHENGTECH 2800W Concrete Grinder, Model E-003. Please read this manual thoroughly before using the tool and keep it for future reference.

2. Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Work Area Safety:** Keep the work area clean and well-lit. 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. Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, hearing protection, and a dust mask. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **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.
- **Dust Extraction:** This tool generates significant dust. Always connect to a suitable dust extraction system to minimize airborne particles.

3. Product Overview and Components

The YUCHENGTECH E-003 is a powerful 2800W concrete grinder designed for efficient surface preparation. It features a 3-head grinding system and 6 adjustable speeds for versatile applications.

3.1 Key Features

- **2800W Powerful Motor:** Ensures stable performance for heavy-duty grinding tasks on concrete, marble, and granite.
- **3-Head Grinding System:** Provides a wider contact area (7.9" diameter), increasing efficiency by 40% compared to single-disc models.

- **6-Speed Variable Control:** Allows adjustment of grinding speed from 800 to 2800 RPM to suit different materials and applications.
- **90° Removable Head:** Enables grinding close to walls and into corners, ensuring thorough surface preparation.
- **Integrated Dust Extraction Port:** Connects to a vacuum cleaner for effective dust management.
- **Auxiliary Handle Design:** Provides enhanced control and comfort during operation.

3.2 Included Accessories

The package includes everything needed to start working:

- 1x 2800W Concrete Grinder
- 1x Side Handle
- 3x Diamond Grinding Wheels
- 3x Self-Adhesive Discs
- 3x Sanding Discs
- 3x Diamond Polishing Pads
- 1x Pair of Gloves
- 1x Pin Wrench
- 2x Carbon Brushes
- 1x Spare Drive Belt
- 2x Hose Clamps
- 1x Hex Wrench Set
- Hardware for Raised Handles



Figure 1: Complete Accessory Package. This image displays the concrete grinder along with all included accessories such as grinding wheels, sanding discs, polishing pads, handles, gloves, wrenches, carbon brushes, and a spare drive belt.

4. Setup

4.1 Attaching the Auxiliary Handle

Attach the auxiliary handle to the designated mounting points on the grinder body. Ensure it is securely fastened for optimal control and safety during operation. The handle can be positioned for side or raised grip depending on your preference and application.



Figure 2: Auxiliary Handle Design. This diagram illustrates the two possible configurations for attaching the auxiliary handle: a side handle and raised handles, providing ergonomic options for different tasks.

4.2 Installing Grinding Discs/Pads

1. Ensure the tool is unplugged from the power source.
2. Select the appropriate grinding disc, sanding disc, or polishing pad for your task.
3. Carefully align the disc with the mounting points on the grinder head.
4. Secure the disc using the provided fasteners or mechanism. Refer to the specific disc type for detailed installation instructions.

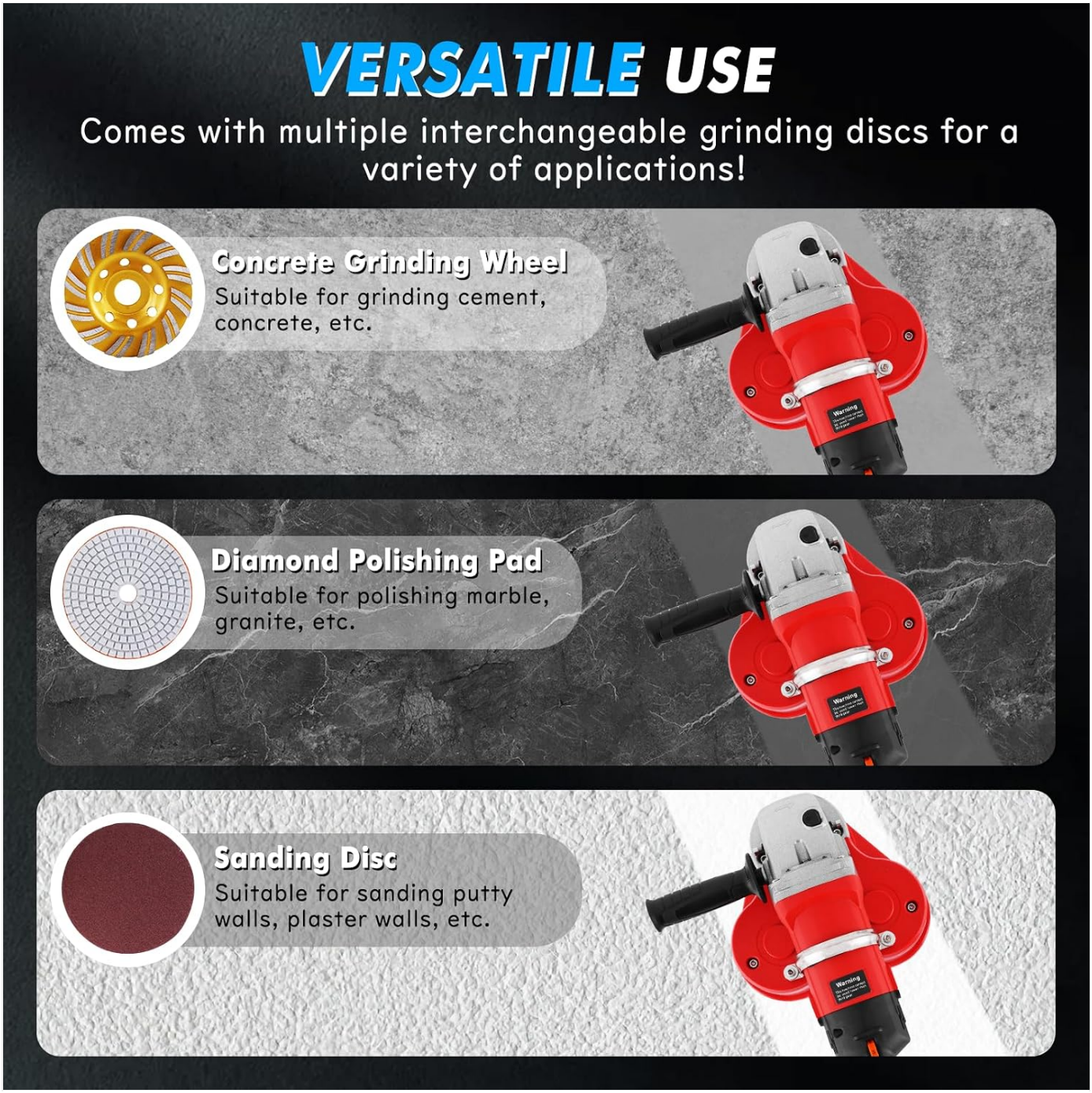


Figure 3: Versatile Use with Interchangeable Discs. This image demonstrates the various types of grinding discs that can be used with the tool, including a concrete grinding wheel, a diamond polishing pad, and a sanding disc, each suited for different materials like cement, marble, granite, and plaster walls.

4.3 Connecting Dust Extraction

Connect a suitable dust extraction hose to the external dust port on the grinder. Secure the hose with the provided clamps to effectively capture dust and debris during operation.



Figure 4: Dust Management and Corner Access. This image highlights the external dust extraction port for connecting a vacuum cleaner and the removable dust shroud feature, which allows the grinder to operate at a 90-degree angle for grinding close to edges and corners.

5. Operating Instructions

5.1 Powering On/Off and Lock Function

To start the grinder, press the power button. For continuous operation, press the safety lock button after engaging the trigger, then release the trigger. This maintains constant grinding without holding the trigger.



Figure 5: One-Click Lock Feature. This diagram illustrates the self-locking button on the grinder's handle, which allows for effortless and continuous grinding without needing to constantly hold the trigger.

5.2 Speed Adjustment

The grinder features 6 adjustable speed settings. Rotate the speed control dial to select the appropriate speed for your material and task. Lower speeds are suitable for delicate materials like marble, while higher speeds are for aggressive removal on concrete.

- **Speed 1:** Fine grinding of walls.
- **Speed 2:** Slightly rough walls.
- **Speed 3:** Rough walls.
- **Speed 4:** Slightly hard walls.

- **Speed 5:** Hard walls.
- **Speed 6:** Grinding bumps/ridges.

Note: For grinding hard walls, it is not recommended to use a speed setting lower than three.



Figure 6: 6-Speed Variable Control. This image illustrates the speed adjustment dial with settings from 1 to 6, indicating suitable applications for each speed, from fine grinding to aggressive material removal.

5.3 Grinding Techniques

- Maintain a firm grip on the tool with both hands.
- Apply even pressure and move the grinder steadily across the surface.
- For edge and corner grinding, remove the front section of the dust shroud to allow the grinding head to reach 90-degree angles.
- Always ensure the dust extraction system is active during operation.



Figure 7: 90° Edge Grinding. This image demonstrates the grinder's ability to sand at a 90-degree angle to a wall, thanks to its removable dust extraction shroud, allowing access to difficult corners and edges.

6. Maintenance

6.1 Cleaning

- After each use, disconnect the tool from the power supply.
- Clean the exterior of the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Remove any dust or debris from the ventilation openings to prevent overheating.
- Inspect the grinding heads and replace them if worn or damaged.

6.2 Carbon Brush Replacement

The carbon brushes are wear items and should be inspected periodically. If they are worn down, replace them with the provided spare carbon brushes. Refer to the tool's diagram for the location of the carbon brush covers.

6.3 Storage

Store the grinder in a clean, dry place, out of reach of children. Ensure the power cord is neatly coiled and not kinked.

7. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start	No power supply; faulty power cord; worn carbon brushes.	Check power connection; inspect power cord for damage; replace carbon brushes.
Reduced grinding performance	Worn grinding discs; incorrect speed setting; excessive pressure.	Replace grinding discs; adjust speed setting; apply lighter, even pressure.
Excessive vibration	Damaged or improperly installed disc; loose components.	Inspect and re-install disc; tighten all fasteners.
Overheating	Blocked ventilation; continuous heavy load.	Clean ventilation openings; allow tool to cool down; reduce load.

8. Specifications

Specification	Value
Brand	YUCHENGTECH
Model Number	E-003
Power	2800W
Voltage	230 Volts (AC)
Power Source	Corded Electric
Maximum Rotation Speed	2800 Revolutions per Minute
Number of Speeds	6
Disc Diameter	100 mm (for each of the 3 heads)
Product Dimensions (L x W x H)	38L x 23W x 56H cm
Item Weight	7.5 Kilograms
Grit Type	Coarse (with various discs for different applications)
Country of Origin	China

9. Warranty and Support

For warranty information or technical support, please contact YUCHENGTECH customer service. Refer to your purchase documentation for specific warranty terms and contact details. You may also visit the official YUCHENGTECH website for further assistance.

Online Support: YUCHENGTECH Store on Amazon

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