YUCHENGTECH ZX-32

YUCHENGTECH 3800W 4-Head Concrete Grinder Instruction Manual

Model: ZX-32

1. Introduction

This manual provides essential information for the safe operation, assembly, maintenance, and technical specifications of your YUCHENGTECH 3800W 4-Head Concrete Grinder, Model ZX-32. Please read these instructions carefully before using the product to ensure proper function and to prevent injury or damage. Keep this manual for future reference.

2. Safety Instructions

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.

General Power Tool Safety

- **Work Area Safety:** Keep the 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, hearing protection, and a dust mask. Use appropriate personal protective equipment (PPE) such as non-skid safety shoes and work gloves. Dress properly; avoid loose clothing or jewelry.
- **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.
- **Maintenance:** Have your power tool serviced by a qualified repair person using only identical replacement parts.

This will ensure that the safety of the power tool is maintained.

Specific Grinder Safety

- Always ensure the grinding discs are correctly installed and secured before operation.
- Do not operate the grinder without the dust shroud properly attached, especially when working in enclosed spaces.
- Be aware of the tool's torque and potential for kickback, especially when starting or encountering uneven surfaces. Maintain a firm grip on both handles.
- Ensure the work surface is stable and clear of obstructions.
- When using the water pump, ensure all electrical connections are protected from water and follow proper wet grinding procedures.

3. Product Overview

The YUCHENGTECH 3800W 4-Head Concrete Grinder is designed for efficient surface preparation, grinding, and polishing of various materials including concrete, marble, plaster, and for rust removal.

Key Features:

- **3800W Copper Motor:** Provides robust power for heavy-duty grinding tasks.
- **4-Head Grinding System:** Offers increased coverage and efficiency compared to single-head grinders.
- **6-Speed Variable Control:** Allows precise speed adjustment from 0-6000 RPM for different applications, from delicate polishing to aggressive grinding.
- **Adjustable Height Extension Rod:** Enables comfortable upright operation, reducing user fatigue.
- **Detachable Dust Shroud:** Facilitates 90-degree edge grinding and connects to industrial vacuum cleaners for dust-free operation.
- **Integrated Auxiliary Wheels:** Enhances maneuverability and reduces physical strain during use.
- **Self-Locking Function:** Allows for continuous operation without holding the trigger, improving comfort during extended use.
- **Dual Handle Design:** Provides enhanced operational stability and grinding precision.

Components and Accessories:



Main unit of the YUCHENGTECH 4-Head Concrete Grinder.



The complete accessory set, including various discs, water pump, and tools.

The complete set includes:

- Concrete Grinder Main Unit
- 4 Diamond Grinding Discs
- 4 Rust Removal Discs
- 4 Diamond Polishing Pads
- 4 Sanding Discs
- 4 Self-Adhesive Discs
- 4 Extension Rods
- Extension Rod Fixing Set
- Water Pump
- Water Hose
- Carbon Brushes (2)
- Hex Wrenches (3)
- Pin Wrench (1)
- Screws (10)

4. Setup

4.1 Attaching Grinding Discs

1. Ensure the grinder is unplugged from the power source.
2. Place the grinder on a stable surface with the grinding plate facing upwards.
3. Select the appropriate grinding disc for your task (diamond for concrete, rust removal, polishing pad, or sanding disc).
4. Align the disc with the mounting points on the grinding plate.
5. Secure the disc using the provided fasteners and tools. Ensure it is tightly fastened to prevent detachment during operation.

4.2 Assembling the Extension Rod

1. For upright operation, connect the extension rods to the main unit's handle.
2. Secure the rods using the fixing set, ensuring a firm connection.
3. Adjust the height of the extension rod to a comfortable working position.



The grinder with the extension rod assembled for upright use.



Illustration of the adjustable height handle feature.

4.3 Connecting the Water Pump (for wet grinding)

1. Attach the water hose to the designated inlet on the grinder.
2. Connect the other end of the hose to the water pump.
3. Place the water pump in a bucket of clean water.
4. Ensure all connections are secure to prevent leaks.

5. Operating Instructions

5.1 Powering On/Off and Speed Control

1. Plug the grinder into a suitable power outlet (220V).
2. To turn on, pull the trigger switch.
3. For continuous operation, pull the trigger and then press the self-locking button. Release the trigger to maintain power. To turn off, pull the trigger again to release the lock.
4. Adjust the grinding speed using the 6-speed rotary dial. Speed 1-2 is suitable for marble polishing, while speeds 3-6 are for aggressive concrete grinding and epoxy removal.



Illustration of the instant lock system for continuous operation.



The 6-speed control dial for precision grinding.

5.2 Grinding Techniques

- **General Grinding:** Hold the grinder firmly with both hands. Apply even pressure and move the tool in a consistent pattern across the surface.
- **Edge Grinding:** The detachable dust shroud allows for close-to-edge grinding (within 0.5mm). Position the grinder carefully along the edge.
- **Handheld Mode:** For smaller areas or detailed work, the grinder can be used without the extension rod.
- **Walk-Behind Mode:** For large floor areas, use the extension rod for comfortable upright operation.



Performing 90-degree edge grinding with the detachable dust shroud.



Demonstration of handheld and walk-behind operating modes.

5.3 Dust Collection and Water System

- Connect an industrial vacuum cleaner to the dual dust extraction ports on the shroud for effective dust capture.
- When performing wet grinding, ensure the water pump is activated and providing a steady flow of water to the

grinding surface. This helps cool the discs and suppress dust.



Illustration of the improved dust extraction system with dual outlet.

6. Maintenance

6.1 Cleaning

- After each use, unplug the tool and clean off any dust or debris from the housing, vents, and grinding plate.
- Use a dry cloth or soft brush. Do not use harsh chemicals or abrasive cleaners.

6.2 Disc Replacement

- Regularly inspect grinding discs for wear or damage. Replace worn discs promptly to maintain performance and safety.
- Follow the steps in Section 4.1 in reverse to remove old discs, then attach new ones securely.

6.3 Carbon Brush Replacement

- The carbon brushes are wear items and should be checked periodically.
- When brushes are worn down, replace them with the provided spare carbon brushes. Refer to the tool's specific brush compartment access for replacement.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Grinder does not start	No power supply; Faulty power cord/plug; Worn carbon brushes	Check power outlet and connections; Inspect power cord for damage; Replace carbon brushes.
Reduced grinding performance	Worn grinding discs; Incorrect speed setting; Excessive pressure	Replace grinding discs; Adjust speed to higher setting; Apply less pressure, let the tool do the work.
Excessive vibration or noise	Loose grinding disc; Damaged disc; Internal component issue	Tighten grinding disc; Replace damaged disc; If problem persists, seek professional service.

Problem	Possible Cause	Solution
Dust leakage	Dust shroud not properly attached; Vacuum cleaner not connected or insufficient suction	Ensure dust shroud is securely fastened; Connect industrial vacuum cleaner and check its suction power.
Machine pulls to one side	Uneven disc wear; Uneven pressure application; Centrifugal force from motor design	Inspect and replace worn discs; Apply even pressure; Adjust technique to counteract pull.

8. Specifications

Specification	Detail
Brand	YUCHENGTECH
Model Number	ZX-32
Power	3800W
Voltage	220 Volt
Max Rotational Speed	6000 RPM
Number of Heads	4
Disc Diameter	4 inch (100mm)
Item Weight	12.5 Kilograms
Product Dimensions (L x W x H)	56L x 29B x 38H centimeters
Power Source	Corded Electric
Included Components	Concrete Grinder 4 Heads *1, Full Accessory Set (as listed in Product Overview)

9. Warranty and Support

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact YUCHENGTECH customer service directly. Keep your purchase receipt as proof of purchase.

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