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> AOBEN Electric Die Grinder Model AT3504X User Manual

AOBEN AT3504X

AOBEN Electric Die Grinder (Model AT3504X) User Manual

Model: AT3504X

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your AOBEN Electric Die Grinder, Model AT3504X. Please read and understand all instructions before operating the tool. Retain this manual for future reference.



Image 1.1: The AOBEN Electric Die Grinder (Model AT3504X) and included wrenches.

2. SAFETY INFORMATION

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

General Safety Warnings:

- **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. 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.
- **Maintenance:** Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

3. PRODUCT OVERVIEW

The AOBEN Electric Die Grinder is designed for various tasks including grinding, polishing, deburring, and welding repair. It features a powerful motor and an ergonomic design for comfortable use.



Image 3.1: Key components of the AOBEN Electric Die Grinder.

Key Features:

- **Powerful Motor:** Equipped with a pure copper motor, delivering up to 28,000 RPM for efficient performance.
- **Ergonomic Design:** Features an extended spindle with a rubber cover for a comfortable grip and reduced vibration.
- **Versatile 1/4" Collet:** Accommodates a wide range of accessories for various applications.
- **Safety Switch:** Designed to prevent accidental starts.
- **Heat Dissipation:** High heat dissipation efficiency with front and rear air vents, protecting the motor from debris and extending tool life.

4. SETUP

Proper setup ensures safe and effective operation of your die grinder.

Attaching Accessories (Bits):

1. **Loosen the Collet Nut:** Use the provided wrenches to loosen the collet nut at the end of the spindle.
2. **Insert the Bit:** Carefully insert the desired grinding or polishing bit into the 1/4" collet. Ensure the bit

is fully seated.

3. **Tighten the Collet Nut:** Securely tighten the collet nut using both wrenches. Ensure the bit is firmly held and does not wobble.
4. **Verify Security:** Before starting, gently pull on the bit to confirm it is securely fastened.



Image 4.1: Step-by-step guide for installing a bit into the 1/4" collet.

PRECISION BIT CHUCK 1/4"

Made of tungsten steel,
provides superior bit gripping
strength and reliable clamping performance.



Image 4.2: Detail of the 1/4" precision bit chuck, designed for superior bit gripping strength.

5. OPERATION

Follow these guidelines for safe and effective operation of your AOBEN Electric Die Grinder.

Starting the Tool:

- Ensure the tool is properly plugged into a 120V power outlet.
- Hold the tool firmly with both hands, maintaining a secure grip on the ergonomic handle.
- Engage the safety switch and press the switch lever to start the grinder. The tool is designed for smooth, consistent operation.

Working with the Tool:

- Apply gentle, consistent pressure to the workpiece. Avoid excessive force, which can lead to loss of control or damage to the tool/workpiece.
- Move the grinder smoothly across the surface to achieve an even finish.
- For detailed work or tight spaces, utilize the extended spindle for better access and control.
- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.



Image 5.1: The die grinder in use, demonstrating its powerful motor during a grinding application.



Image 5.2: Examples of versatile applications for the AOBEN Electric Die Grinder.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your die grinder.

Cleaning:

- Always disconnect the tool from the power source before cleaning.
- Use a soft brush or compressed air to remove dust and debris from the air vents and around the collet area.
- Wipe the exterior of the tool with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.

Storage:

- Store the die grinder in a clean, dry place, away from moisture and direct sunlight.
- Ensure the tool is cool before storing.
- Keep out of reach of children.



Image 6.1: The heat dissipation port design, crucial for maintaining motor health.

7. TROUBLESHOOTING

If you encounter issues with your AOBEN Electric Die Grinder, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Faulty switch; Power cord damage	Check power outlet and connections; Inspect power cord for damage; Contact customer support if switch is faulty.
Excessive vibration	Bit not properly secured; Damaged bit; Worn collet	Ensure bit is tightly secured; Replace damaged bit; Inspect and replace collet if worn.
Reduced performance/speed	Overheating; Motor issues; Incorrect bit for task	Allow tool to cool down; Ensure air vents are clear; Use appropriate bit for the material and task.
Tool gets hot quickly	Blocked air vents; Prolonged heavy use	Clean air vents; Reduce load or allow tool to cool periodically.

If the problem persists after attempting these solutions, please contact AOBEN customer support.

8. SPECIFICATIONS

Specification	Detail
Brand	AOBEN
Model Number	AT3504X
Power Source	Corded Electric
Voltage	120 Volts
Maximum Rotational Speed	28000 RPM
Collet Size	1/4 inch
Material	Metal
Item Weight	4.75 pounds
Product Dimensions	8 x 2 x 2 inches
Included Components	Die Grinder Tool, 2 x Wrenches

9. WARRANTY AND SUPPORT

AOBEN is committed to providing complete after-sales service for its products. If you have any questions regarding the use, maintenance, or troubleshooting of your AOBEN Electric Die Grinder, please contact our customer support team.

For assistance, please refer to the contact information provided with your product packaging or visit the official AOBEN website.

