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> Elprico 90-Degree 1/4" MBSP Air Die Grinder Instruction Manual

Elprico Elpricoutvgk7p82q

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Model: Elpricoutvgk7p82q

1. INTRODUCTION

Thank you for choosing the Elprico 90-Degree 1/4" MBSP Air Die Grinder. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your new tool. Please read these instructions carefully before use and retain them for future reference. Proper use and maintenance will ensure optimal performance and extend the lifespan of your tool.

2. SAFETY INSTRUCTIONS

Always observe basic safety precautions to reduce the risk of personal injury and damage to the tool. Failure to follow these instructions may result in serious injury.

- **Wear Eye Protection:** Always wear ANSI-approved safety goggles or a face shield when operating the grinder.
- **Wear Hearing Protection:** Prolonged exposure to noise from power tools can cause hearing damage.
- **Wear Hand Protection:** Use appropriate gloves to protect hands from sparks, debris, and vibrations.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during operation.
- **Maintain a Clean Work Area:** Cluttered areas invite accidents. Keep your work area well-lit and free of obstructions.
- **Avoid Accidental Starting:** Ensure the air supply is disconnected before making any adjustments, changing accessories, or when the tool is not in use.
- **Use Correct Air Pressure:** Do not exceed the maximum recommended air pressure for the tool (typically 90 PSI / 6.2 Bar).
- **Inspect Tool and Accessories:** Before each use, check for damaged parts, loose connections, or any condition that may affect safe operation. Replace damaged parts immediately.
- **Keep Children Away:** Do not allow children or untrained persons to operate or be near the tool.
- **Proper Ventilation:** Ensure adequate ventilation in the work area, especially when grinding materials that produce dust or fumes.

3. PRODUCT OVERVIEW

The Elprico 90-Degree Air Die Grinder is a versatile pneumatic tool designed for precision grinding, deburring, polishing, and shaping tasks. Its compact, right-angle design allows for access to confined spaces.

3.1 Components



Figure 1: Elprico 90-Degree Air Die Grinder with various grinding discs, wrenches, and air connector.

- **Grinder Body:** Durable alloy steel construction.
- **90-Degree Head:** Allows for angled work and access to tight areas.
- **Trigger/Lever:** Controls air flow to activate the grinder.
- **Air Inlet:** 1/4" MBSP connection for air supply.
- **Chuck/Collet:** Holds grinding accessories securely.
- **Grinding Discs:** Various types for different applications (included).
- **Wrenches:** For securing and changing accessories.

3.2 Key Features

- **High Performance:** Fast speed, smooth operation, and wear resistance, with a high no-load rotation speed reaching 20000 RPM.
- **Adjustable Chuck:** The chuck size is adjustable from 3.18 mm to 6.35 mm (1/8 inch to 1/4 inch), offering versatility for various accessories.
- **Durable Construction:** Features a high-quality steel movement, ensuring reliable and stable operation.
- **Ergonomic Design:** Anti-slip and comfortable design for improved handling and reduced fatigue during extended use.

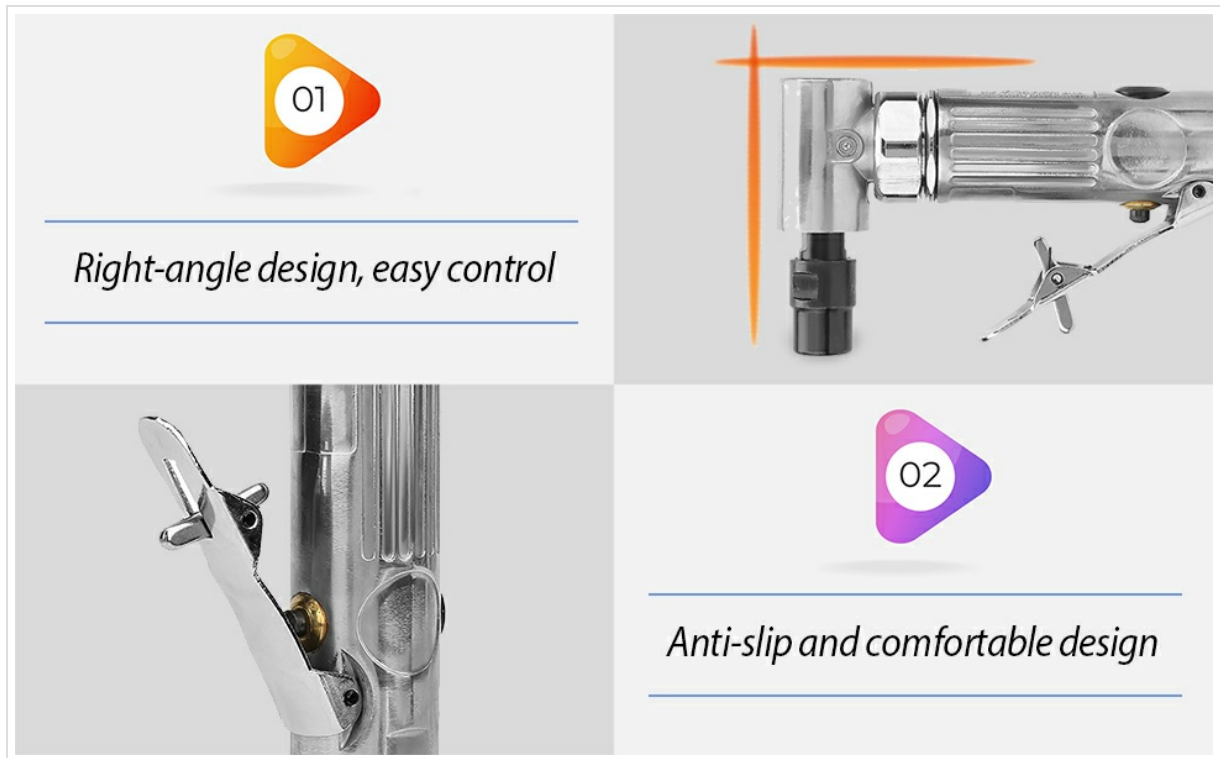


Figure 2: Right-angle design for easy control and anti-slip, comfortable grip.

4. SETUP

Follow these steps to prepare your air die grinder for operation.

1. **Unpacking:** Carefully remove the grinder and all accessories from the packaging. Inspect for any shipping damage.
2. **Air Supply Connection:**
 - Ensure your air compressor is off and the air line is depressurized.
 - Apply thread sealant tape to the 1/4" MBSP air inlet fitting on the grinder.
 - Connect the air hose from your compressor to the grinder's air inlet. Ensure a secure, leak-free connection.
 - Set your air compressor to the recommended operating pressure (typically 90 PSI / 6.2 Bar).
3. **Accessory Installation:**
 - With the air supply disconnected, loosen the chuck/collet nut using the provided wrenches.
 - Insert the shank of the desired grinding disc or accessory into the collet. Ensure it is fully seated.
 - Tighten the chuck/collet nut firmly with the wrenches. Do not overtighten.

5. OPERATING INSTRUCTIONS

Always follow safety guidelines before and during operation.

1. **Pre-Operation Check:** Verify all connections are secure, the accessory is properly installed, and safety gear is worn.
2. **Starting the Grinder:** Connect the air supply. Hold the grinder firmly with both hands. Depress the trigger lever to start the tool.
3. **Grinding Technique:**
 - Apply light, even pressure to the workpiece. Let the tool's speed do the work.

- Move the grinder smoothly across the surface. Avoid dwelling in one spot, which can cause gouging or overheating.
- Maintain a stable grip. The 90-degree head allows for comfortable operation in various orientations.

4. **Applications:** The Elprico Air Die Grinder is suitable for:

- Grinding and deburring metal parts.
- Shaping and smoothing wood components.
- Polishing various surfaces.
- Working on rubber tires and casting surfaces.

5. **Stopping the Grinder:** Release the trigger lever. The tool will stop quickly. Disconnect the air supply when finished or when changing accessories.



Figure 3: Grinding a metal surface with the air die grinder.



Figure 4: Proper handling of the air die grinder during operation.

MULTI-INDUSTRY USE

Focusing on light industrial home decoration is more suitable for choosing it with high cost performance




			
Diy Sanding	Tire Repair Industry	Mold Polishing And Fine Grinding	Deburring & Trimming

Figure 5: Examples of multi-industry applications for the air die grinder.

6. MAINTENANCE

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

- **Lubrication:** Apply a few drops of pneumatic tool oil into the air inlet before each use and after every hour of continuous operation. This lubricates internal components and prevents rust.

- **Cleaning:** Keep the tool clean and free of debris. Wipe down the exterior with a clean cloth. Use compressed air to clear any dust from vents and moving parts.
- **Inspection:** Regularly inspect the chuck/collet for wear or damage. Check the air hose and connections for leaks or deterioration. Replace worn or damaged parts immediately.
- **Storage:** Store the grinder in a dry, clean environment when not in use. Disconnect it from the air supply.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Tool does not start or runs slowly	Low air pressure; Clogged air inlet; Lack of lubrication; Damaged internal components	Check air compressor pressure; Clean air inlet; Lubricate tool; Contact support for repair
Air leaks from connections	Loose connections; Worn O-rings or seals; Insufficient thread sealant	Tighten connections; Replace O-rings/seals; Reapply thread sealant tape
Excessive vibration or noise	Worn accessory; Loose accessory; Damaged bearings	Replace worn accessory; Ensure accessory is tightly secured; Contact support for inspection
Accessory slips in chuck	Chuck/collet not tightened sufficiently; Worn chuck/collet; Incorrect accessory shank size	Tighten chuck/collet; Replace worn chuck/collet; Use correct shank size accessories

8. SPECIFICATIONS

Manufacturer	Elprico
Model Number	Elpricoutvgk7p82q
Product Dimensions (L x W x H)	18 x 10 x 5 cm
Weight	670 grams
Color	Silver
Material	Alloy Steel
Power Type	Air-powered
Max Rotation Speed	20000 RPM
Chuck Size (Adjustable)	3.18 mm to 6.35 mm (1/8 inch to 1/4 inch)
Air Inlet Size	1/4" MBSP
Recommended Air Pressure	90 PSI (6.2 Bar)

9. WARRANTY AND SUPPORT

Elprico is committed to providing high-quality products. This product is manufactured to strict quality standards and is designed for reliable performance.

If you encounter any issues or have questions regarding the use, maintenance, or performance of your Elprico 90-Degree 1/4" MBSP Air Die Grinder, please do not hesitate to contact our customer support. For warranty claims or technical assistance, please refer to the contact information provided at the point of purchase or visit the official Elprico website.