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Dong Cheng DSM14-125

DongCheng 800W Angle Grinder (Model DSM14-125) Instruction Manual

Your guide to safe and efficient operation

1. INTRODUCTION

Thank you for choosing the DongCheng 800W Angle Grinder, Model DSM14-125. This powerful and versatile tool is designed for grinding, cutting, and polishing various materials such as metal and tile. Featuring an 800W copper motor, a 125mm disc diameter, and a no-load speed of 11,800 RPM, this angle grinder offers excellent performance and durability. For your safety and to ensure optimal performance, please read this instruction manual thoroughly before operating the tool.

800W

Moteur en cuivre de

Puissance élevée pour les tâches difficiles,
Moteur en cuivre pour une longue durée de vie



Figure 1: DongCheng 800W Angle Grinder (Model DSM14-125)

2. SAFETY INFORMATION

Always prioritize safety when operating power tools. Failure to follow these safety guidelines may result in electric shock, fire, and/or serious injury.

General Power Tool 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. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection (safety goggles or glasses with side shields). Use hearing protection, a dust mask, and heavy-duty 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.

Angle Grinder Specific Safety:

- Always ensure the protective guard is correctly fitted and adjusted for the operation being performed.
- Use only discs that are rated for the speed of your grinder and are suitable for the material being worked on.
- Secure the workpiece. Use clamps or a vise to hold the workpiece firmly.
- Maintain a firm grip on the tool with both hands. The auxiliary handle must always be used.
- Be aware of sparks and debris. Direct sparks away from yourself and others.
- Do not use the grinder for purposes for which it was not designed.



Figure 2: Emphasizing safety features and proper protective equipment during operation.

3. PRODUCT COMPONENTS

The DongCheng 800W Angle Grinder comes with several components designed for efficient and safe operation:

- **Angle Grinder Body:** The main unit housing the 800W motor.
- **Auxiliary Handle:** Provides a secure two-position grip for enhanced control and reduced vibration.
- **Protective Covers:** Two interchangeable covers for grinding and cutting applications, ensuring user safety.
- **Grinding/Cutting Discs:** Includes 2 abrasive discs (125mm), 2 flap discs (125mm), and 2 cutting discs (125mm).
- **Wrench:** For securing and changing discs.
- **Carbon Brushes:** A pair of Auto-Stop carbon brushes for motor longevity.



Figure 3: Angle Grinder with its essential accessories.



Figure 4: The angle grinder shown with a selection of compatible discs.

4. SETUP

Before starting any work, ensure the tool is unplugged from the power source.

4.1 Attaching the Auxiliary Handle

The auxiliary handle can be attached to either side of the grinder head, providing comfort and flexibility for both left-handed and right-handed users.

1. Identify the threaded holes on both sides of the grinder head.
2. Screw the auxiliary handle firmly into the desired position. Ensure it is tightened securely to prevent movement during operation.

Poignée auxiliaire anti-vibration

2 positions offrent confort et protection aussi bien aux gauchers qu'aux droitiers



Faible niveau de vibrations



Pas de fatigue



Plus grande flexibilité

Figure 5: Auxiliary handle attachment points for ergonomic use.

4.2 Installing the Protective Cover

Select the appropriate protective cover for your task (grinding or cutting). The covers are designed for quick changes to ensure safety.

1. Align the protective cover with the mounting collar on the grinder head.
2. Slide the cover into place and rotate it until it locks securely. Ensure the cover is positioned to deflect sparks and debris away from you.

Deux protections :

Protection contre la coupe et l'abrasion

Offre une flexibilité maximale lors de l'utilisation.



Figure 6: Interchangeable protective covers for different applications.

4.3 Mounting the Grinding/Cutting Disc

Always use the correct disc for the material and application. Refer to the disc's specifications for compatibility.

1. Press and hold the spindle lock button.
2. Place the inner flange onto the spindle.
3. Position the selected grinding or cutting disc onto the inner flange, ensuring it sits flat.
4. Thread the outer flange onto the spindle and tighten it firmly using the provided wrench. Release the spindle lock.



Figure 7: Proper disc installation for safe operation.

5. OPERATING INSTRUCTIONS

Once the grinder is properly set up and safety precautions are in place, you can begin operation.

5.1 Powering On/Off

- **To Turn On:** Ensure a firm grip with both hands. Slide the power switch forward to the 'ON' position.
- **To Turn Off:** Slide the power switch backward to the 'OFF' position. Allow the disc to come to a complete stop before setting the tool down.

5.2 Grinding and Cutting Techniques

Always let the tool reach full speed before contacting the workpiece. Apply moderate pressure; do not force the tool.

- **Grinding:** Hold the grinder at a slight angle (typically 15-30 degrees) to the workpiece. Move the tool smoothly and consistently across the surface.
- **Cutting:** Hold the grinder perpendicular (90 degrees) to the workpiece. Make shallow passes, gradually deepening the cut. Avoid twisting or binding the disc.
- **Polishing:** Use appropriate polishing pads and compounds. Apply light, even pressure and move the tool in a consistent pattern.



Figure 8: Angle grinder in action, demonstrating cutting with sparks.

Video 1: Demonstration of the DongCheng Angle Grinder performing cutting and grinding tasks on various materials, highlighting its power and versatility.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your angle grinder. Always unplug the tool before performing any maintenance.

6.1 Cleaning

- Clean the ventilation openings regularly to prevent overheating. The tool features a three-dimensional ventilation design for efficient heat dissipation.
- Wipe the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.



Figure 9: The advanced ventilation system helps maintain motor temperature.

6.2 Carbon Brush Replacement

The angle grinder is equipped with Auto-Stop carbon brushes. When the brushes wear down, the tool will automatically stop to prevent motor damage. Replace both carbon brushes simultaneously.

1. Locate the brush caps on the sides of the motor housing.
2. Unscrew the brush caps using a screwdriver.
3. Remove the old carbon brushes and insert the new ones, ensuring they are correctly oriented.
4. Replace and tighten the brush caps.

6.3 Disc Inspection and Replacement

- Regularly inspect discs for cracks, chips, or excessive wear. Replace damaged or worn discs immediately.
- Always use genuine DongCheng replacement discs or discs that meet the specified safety standards.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your angle grinder.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Worn carbon brushes; Power switch fault	Check power connection; Replace carbon brushes; Contact service center
Excessive vibration	Loose disc or flange; Damaged disc; Worn bearings	Tighten disc/flange; Replace disc; Contact service center
Overheating	Blocked ventilation slots; Overloading the tool	Clean ventilation slots; Reduce load/pressure; Allow tool to cool
Reduced performance	Worn disc; Worn carbon brushes	Replace disc; Replace carbon brushes

8. SPECIFICATIONS

Technical data for the DongCheng 800W Angle Grinder (Model DSM14-125):

Feature	Value
Brand	Dong Cheng
Model Number	DSM14-125
Power	800 Watts
Disc Diameter	125 mm
Maximum Rotation Speed	11800 RPM
Power Source	Corded Electric
Material	Plastic
Item Weight	3.7 Kilograms
Product Dimensions (L x W x H)	27.5 x 7.5 x 10.5 cm



Figure 10: Key dimensions of the angle grinder.

9. WARRANTY AND SUPPORT

Your DongCheng Angle Grinder is covered by a manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, spare parts, or service inquiries, please contact Dong Cheng customer service through the retailer where you purchased the product or visit the official Dong Cheng website.

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