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> Bosch GWS 900-100 Heavy Duty Electric Angle Grinder Instruction Manual

## Bosch GWS 900-100

# Bosch GWS 900-100 Heavy Duty Electric Angle Grinder Instruction Manual

Model: GWS 900-100

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## 1. INTRODUCTION

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This manual provides essential instructions for the safe and effective use of your Bosch GWS 900-100 Heavy Duty Electric Angle Grinder. Designed for superior grinding and cutting performance, this 900W tool features a robust design for long lifetime under demanding working conditions. Please read this manual thoroughly before operating the tool and keep it for future reference.



Image 1.1: The Bosch GWS 900-100 Heavy Duty Electric Angle Grinder.

## 2. GENERAL SAFETY INFORMATION

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Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. This tool is designed for professional use and requires careful handling.

### 2.1 Personal Safety

- **Wear eye protection:** Always wear safety goggles or a face shield.
- **Wear hearing protection:** Prolonged exposure to noise can cause hearing damage.
- **Wear appropriate clothing:** Avoid loose clothing, jewelry, and long hair that can get caught in moving parts.
- **Use respiratory protection:** When grinding or cutting materials that produce dust, wear a dust mask.
- **Stay alert:** Do not operate power tools while tired or under the influence of drugs, alcohol, or medication.

### 2.2 Electrical Safety

- **Double Insulation:** This tool features double insulation, meaning it does not require connection to an electrical earth (ground).
- **Avoid wet conditions:** Do not expose power tools to rain or wet conditions.
- **Use proper extension cords:** If an extension cord is used, ensure it is suitable for outdoor use and has adequate wire gauge for the tool's power requirements.

## 2.3 Tool Specific Safety

- **Always use the protection guard:** Ensure the guard is correctly fitted and adjusted for the operation.
- **Secure workpiece:** Always clamp or secure the workpiece to prevent movement during operation.
- **Check discs:** Before use, inspect grinding/cutting discs for damage or cracks. Do not use damaged discs.
- **Restart Protection:** The tool is equipped with restart protection. If power is interrupted, the tool will not restart automatically when power is restored. The switch must be cycled off and on again.



Image 2.1: Icons representing Protection Guard and Restart Protection features.

## 3. PRODUCT OVERVIEW

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The Bosch GWS 900-100 is a powerful angle grinder designed for heavy-duty applications. Familiarize yourself with its components before use.

### 3.1 Main Components

1. Spindle Lock Button
2. On/Off Switch (Lockable)
3. Auxiliary Handle
4. Protection Guard
5. Grinding/Cutting Disc (Accessory)
6. Spindle
7. Flange Nut
8. Backing Flange



Image 3.1: Detailed view of the Bosch GWS 900-100 Angle Grinder.



Image 3.2: Side view highlighting the ergonomic design and switch location.

## 4. SETUP AND ASSEMBLY

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Before connecting the tool to power, ensure all components are correctly assembled.

### 4.1 Unpacking

Carefully remove all items from the packaging. Verify that all parts listed in the package contents are present and undamaged.

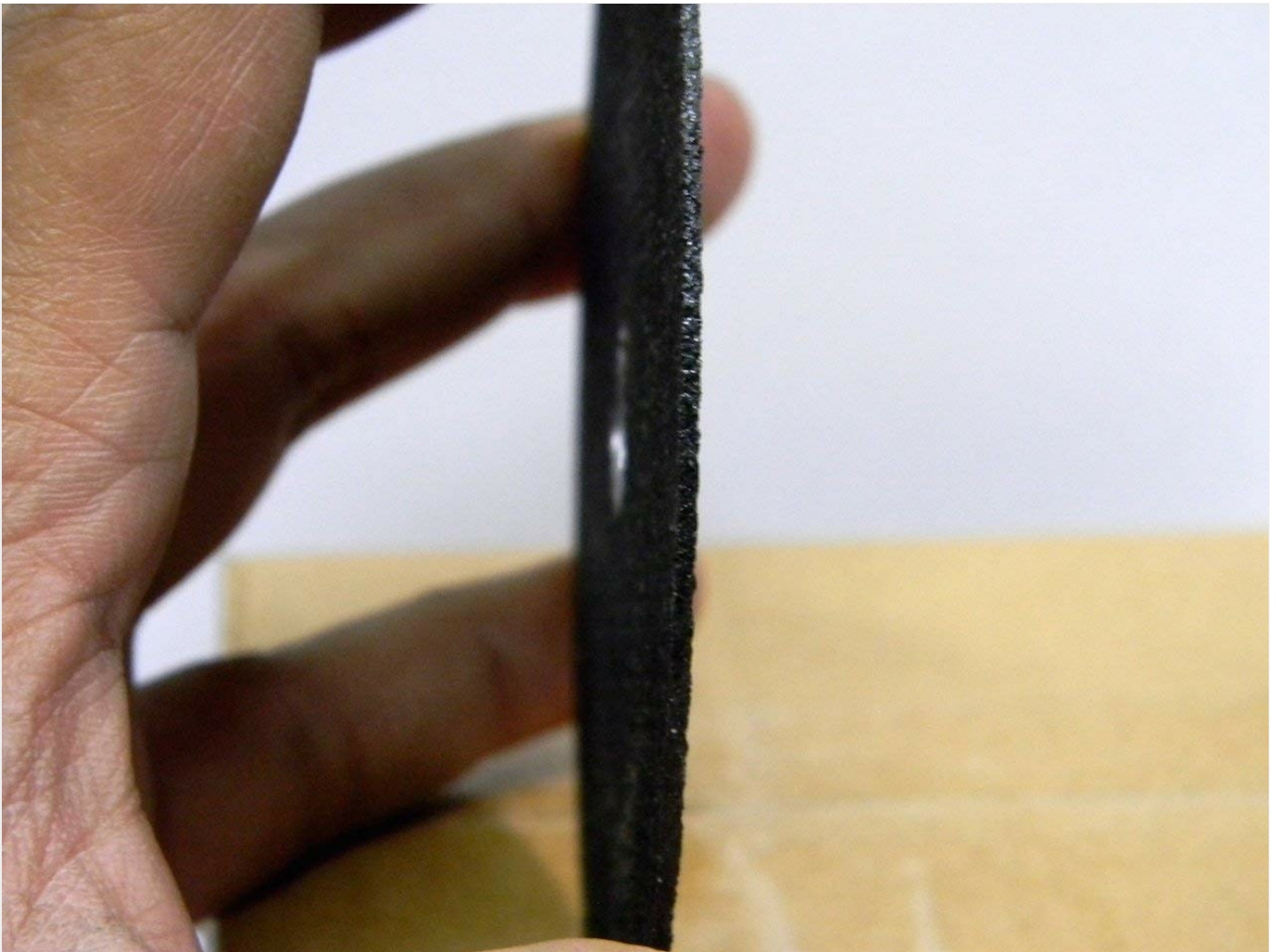


Image 4.1: Typical package contents including the grinder, auxiliary handle, protection guard, and wrench.

## 4.2 Attaching the Auxiliary Handle

Screw the auxiliary handle firmly into one of the threaded holes on the gear head. For optimal control and safety, always operate the grinder with the auxiliary handle attached.

## 4.3 Mounting the Protection Guard

The protection guard is crucial for safety. Loosen the clamping screw on the guard, position it over the spindle collar, and rotate it until it covers the disc as much as possible, directing sparks away from you. Tighten the clamping screw securely.

## 4.4 Installing Grinding/Cutting Discs

1. Ensure the tool is unplugged.
2. Place the backing flange onto the spindle.
3. Place the appropriate grinding or cutting disc onto the backing flange. Ensure the disc is compatible with the grinder's specifications (100 mm diameter, M10 arbor).
4. Screw the flange nut onto the spindle.
5. Press the spindle lock button and tighten the flange nut firmly using the provided wrench. Release the spindle lock button.



Image 4.2: Front view of a Bosch Standard for Metal cutting disc (part number 3165140708692).



Image 4.3: Back view of a Bosch Standard for Metal cutting disc.

## 5. OPERATING INSTRUCTIONS

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Always wear appropriate personal protective equipment (PPE) before starting any operation.

### 5.1 Switching On/Off

- **To switch on:** Push the On/Off switch forward. For continuous operation, press the front part of the switch down until it locks.
- **To switch off:** For continuous operation, press the rear part of the On/Off switch. For non-continuous operation, release the switch.

### 5.2 Grinding and Cutting Techniques

- **Grinding:** Apply moderate pressure and move the grinder evenly across the workpiece. Do not press too hard, as this can reduce disc life and motor efficiency.
- **Cutting:** Use a cutting disc and make straight, controlled cuts. Do not apply side pressure to the cutting disc, as this can cause it to bind or shatter.
- **Material suitability:** This grinder is suitable for metalworking applications.



Image 5.1: An operator demonstrating the use of the angle grinder for metal cutting, showing sparks generated during operation.



Image 5.2: Icon indicating suitability for metalworking applications.

## 6. MAINTENANCE

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

- **Cleaning:** Keep the ventilation openings clean to prevent overheating. Use a soft brush or compressed air to remove dust and debris.
- **Disc inspection:** Regularly check grinding and cutting discs for wear, cracks, or damage. Replace worn or damaged discs immediately.
- **Carbon brushes:** The motor is equipped with carbon brushes. If the tool experiences reduced power or intermittent operation, the carbon brushes may need inspection or replacement by a qualified service technician.
- **Direct Cooling:** The tool features direct cooling to enhance overload capability and extend motor life. Ensure air vents are clear for effective cooling.



Image 6.1: Icon representing the Direct Cooling feature.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter. For problems not listed here, contact Bosch customer service.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Restart Protection activated; Faulty switch	Check power connection; Cycle On/Off switch; Contact service center
Reduced power during operation	Worn carbon brushes; Overload; Clogged ventilation slots	Have carbon brushes checked; Reduce pressure; Clean ventilation slots
Excessive vibration	Damaged or improperly mounted disc; Loose components	Inspect and replace disc if damaged; Ensure disc and guard are securely mounted
Tool overheats	Clogged ventilation slots; Prolonged heavy use	Clean ventilation slots; Allow tool to cool down; Reduce workload

## 8. TECHNICAL SPECIFICATIONS

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Below are the key technical specifications for the Bosch GWS 900-100 Angle Grinder.

Feature	Specification
Brand	Bosch
Model Number	900-100
Rated Input Power	900 W
Disc Diameter	100 mm (4 inch)
Spindle Thread	M10
Maximum Rotational Speed	12000 RPM
Power Source	Corded Electric
Item Weight	2.28 Kilograms
Material	Metal
Insulation	Double Insulation

## 9. WARRANTY & SUPPORT

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### 9.1 Warranty Information

Please note that this product is stated to have **no warranty**. For any concerns regarding product quality upon receipt, please refer to the retailer's return policy.

### 9.2 Customer Support

For technical assistance, spare parts, or service inquiries, please contact your local Bosch service center or authorized dealer. Always provide the model number (GWS 900-100) when seeking support.