STANLEY SG7100-IN

STANLEY SG7100-IN SLIM Small Angle Grinder 750W Instruction Manual

Model: SG7100-IN | Brand: STANLEY

1. Important Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools. Read and understand all instructions before use.

1.1 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. Power tools create sparks which may ignite the dust or fumes.
- **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. Unmodified plugs and matching outlets will reduce risk of electric shock. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection for appropriate conditions. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

1.2 Angle Grinder Specific Safety Warnings

- **Guarding:** Always use the guard provided with the tool. Ensure the guard is securely attached and positioned for maximum safety.
- **Accessories:** Only use accessories that are specifically designed for this angle grinder and rated for at least

the maximum speed of the tool.

- **Kickback:** Be aware of kickback, which is a sudden reaction to a pinched or snagged rotating wheel. Always maintain a firm grip on the tool.
- **Dust:** Grinding operations produce dust. Wear a dust mask and ensure adequate ventilation.
- **Sparks:** Grinding produces sparks. Keep bystanders and flammable materials away from the work area.

2. Product Overview

The STANLEY SG7100-IN SLIM Small Angle Grinder is a versatile power tool designed for various cutting, grinding, and polishing applications. Its ergonomic design and powerful motor ensure efficient and comfortable operation.



Image 2.1: Annotated diagram highlighting key components of the STANLEY SG7100-IN Angle Grinder, including the big outlet for airflow, big size spindle lock button, metal gearbox, 179mm girth slim body design, safety 2-motion switch, burst-proof keyed guard, and compact size.

2.1 Key Features

- **Powerful 750W Motor:** Delivers high performance for efficient material removal.
- **Slim Body Design (179 mm Girth):** Provides comfortable gripping and enhanced control during extended use.
- **100mm Disc Diameter:** Suitable for a range of small to medium-duty tasks.
- **Burst-Proof Guard:** Enhances user safety by containing debris and preventing disc fragments from scattering.
- **Spindle Lock:** Facilitates quick and easy accessory changes.
- **Three-Position Handle:** Allows for versatile handling for both left and right-handed users, improving comfort and control.
- **Steel Cut Gear Set:** Reduces noise and vibration for smoother operation.
- **Optimal Air Inlet Valve:** Designed for long-term operation by ensuring efficient cooling.



Image 2.2: Side view of the STANLEY SG7100-IN Angle Grinder, showcasing its compact and slim design with the side handle attached.



Image 2.3: A hand gripping the STANLEY SG7100-IN Angle Grinder, illustrating its ergonomic 179mm slimline body design for comfortable and extended use.

3. Technical Specifications

Detailed specifications for the STANLEY SG7100-IN Angle Grinder.

Specification	Value
Brand	STANLEY
Model Number	SG7100-IN
Rated Power	750 Watts
Disc Diameter	100 mm (4 inch)
No Load Speed	12,000 RPM

Specification	Value
Tool Girth	179 mm
Cable Length	2.5 M
Item Weight	1 kg
Material	Metal, Plastic
Product Dimensions	19L x 15.5W x 7.9H Centimeters
Power Source	Corded Electric

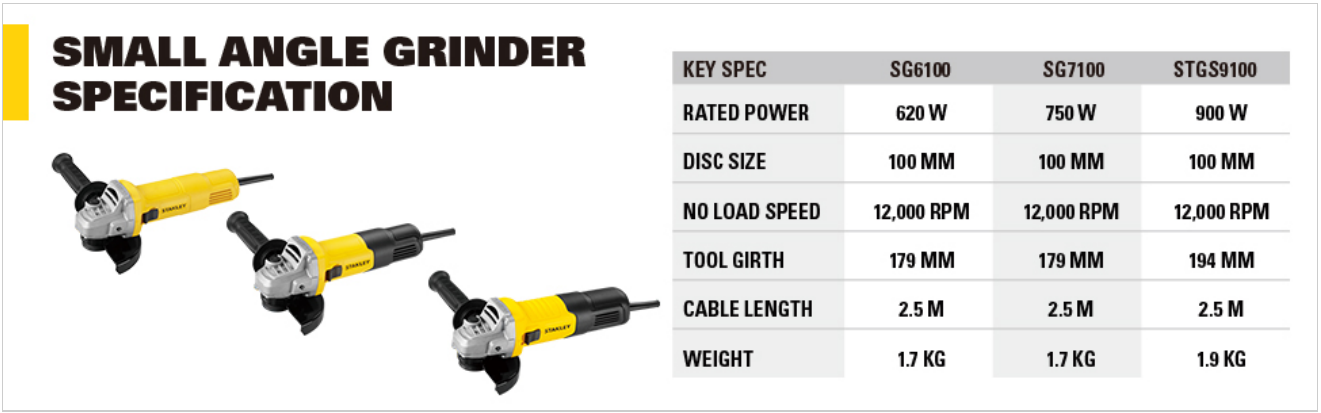


Image 3.1: A specification table comparing different STANLEY small angle grinder models, including the SG7100, showing rated power, disc size, no-load speed, tool girth, cable length, and weight.

4. Setup and Assembly

Before operating the angle grinder, ensure proper assembly and setup.

4.1 Attaching the Side Handle

1. Identify the threaded holes on the gear housing of the grinder. The SG7100-IN features a three-position handle for versatility.
2. Screw the side handle firmly into the desired position. Ensure it is tightened securely to prevent movement during operation.

4.2 Adjusting the Burst-Proof Guard

1. Loosen the guard clamping screw or lever.
2. Rotate the guard to a position that provides maximum protection for the operator, shielding against sparks and debris.
3. Tighten the guard clamping screw or lever securely. Never operate the grinder without the guard properly installed.

4.3 Mounting/Changing the Grinding Disc

1. **Disconnect Power:** Always unplug the tool from the power source before changing accessories.
2. **Press Spindle Lock:** Depress and hold the spindle lock button to prevent the spindle from rotating.
3. **Remove Outer Flange Nut:** Use the provided wrench to loosen and remove the outer flange nut.
4. **Replace Disc:** Remove the old disc (if applicable) and place the new 100mm disc onto the inner flange,

ensuring it sits correctly.

5. **Secure Outer Flange Nut:** Re-attach the outer flange nut and tighten it firmly with the wrench while holding the spindle lock button. Do not overtighten.



Image 4.1: The STANLEY SG7100-IN Angle Grinder displayed with its power cord and the included wrench, essential for disc changes.

5. Operating Instructions

Follow these guidelines for safe and effective operation of your angle grinder.

5.1 Powering On and Off

- **To Start:** Ensure the tool is securely gripped and the work area is clear. Slide the 2-motion safety switch to the 'ON' position.
- **To Stop:** Slide the switch to the 'OFF' position. Allow the disc to come to a complete stop before setting the tool down.

5.2 Proper Gripping and Control

- Always hold the grinder firmly with both hands, one on the main handle and one on the side handle.
- Maintain a balanced stance and keep your body clear of the rotating disc.

5.3 Application Guidance

The SG7100-IN is suitable for various applications. Refer to the table below for recommended uses based on material and power.

Image 5.1: An application guide illustrating suitable power ratings for polishing, grinding, and cutting various materials such as metal, concrete, and tile. The SG7100 (750W) is highlighted for its capabilities.

- **Cutting:** Use appropriate cutting discs. Apply light, consistent pressure. Do not twist or force the disc, as this can cause kickback or disc breakage.
- **Grinding:** Use grinding discs. Hold the tool at an angle of approximately 15-30 degrees to the workpiece. Move the tool smoothly across the surface.
- **Polishing:** Use polishing pads and compounds. Ensure the workpiece is clean. Apply even pressure and move the tool in a controlled manner.



Image 5.2: An angle grinder in operation, demonstrating its high performance during a grinding task, with sparks visible.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your angle grinder.

6.1 Cleaning

- Keep the ventilation openings clean to prevent motor overheating. Use compressed air to blow out dust from the tool housing regularly.
- Wipe the tool with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Disc Inspection and Replacement

- Inspect discs before each use for cracks, chips, or excessive wear. Replace damaged or worn discs immediately.
- Ensure the correct type and size (100mm) of disc is used for the application.

6.3 General Care

- Store the tool in a dry, secure place out of reach of children.

- Regularly check the power cord for damage. If damaged, have it repaired by a qualified service agent.

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; Faulty switch; Damaged cord	Check power outlet and connections; Ensure switch is fully engaged; Inspect cord for damage and replace if necessary.
Excessive vibration	Damaged or unbalanced disc; Loose flanges; Worn bearings	Replace disc; Tighten flanges securely; Contact service for bearing inspection.
Overheating	Blocked ventilation slots; Continuous heavy load	Clean ventilation slots; Allow tool to cool down; Reduce load or take breaks during prolonged use.
Sparks are excessive or unusual	Incorrect disc type; Improper angle of attack; Worn carbon brushes	Ensure correct disc for material; Adjust working angle; Contact service for brush inspection/replacement.

8. Warranty and Support

Your STANLEY SG7100-IN SLIM Small Angle Grinder comes with a manufacturer's warranty and dedicated customer support.

8.1 Warranty Information

This product is covered by a **1-Year Warranty** from the date of purchase, covering manufacturing defects. Please retain your purchase receipt as proof of purchase for warranty claims.

8.2 Customer Support

For any warranty-related issues, product feedback, or technical assistance, please contact STANLEY customer care:

- **Customer Care Number:** 1860-425-1111
- **Operating Hours:** Monday to Friday, 10 AM to 5 PM (except government holidays)

Manufacturer and Importer: Stanley Black & Decker India Pvt Limited. GAT NO. 135, 137 & 157, PO Mahalunge Talukha - Khed Pune 410501, India.

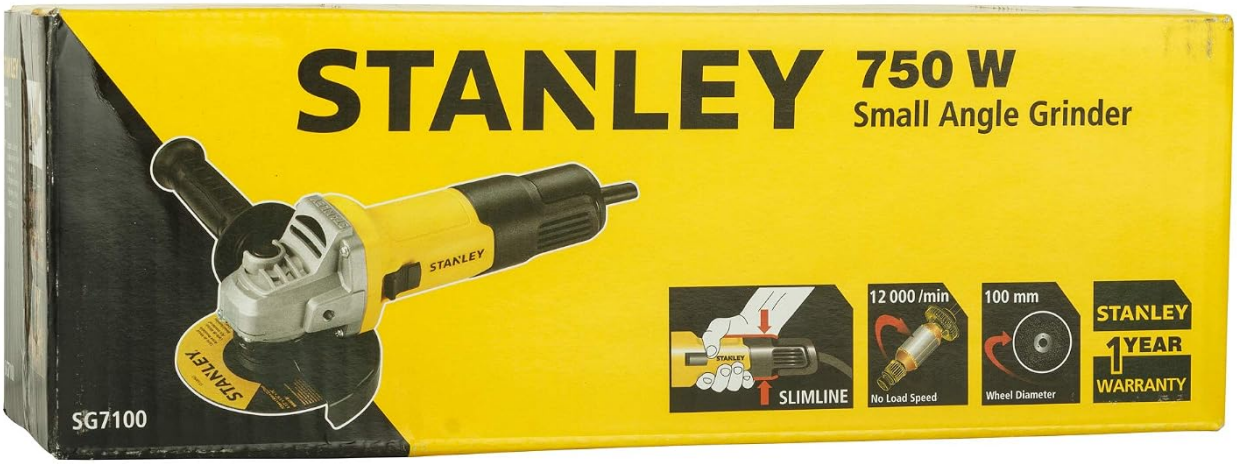


Image 8.1: Front view of the STANLEY SG7100-IN Angle Grinder product packaging, highlighting the 750W power, 12,000 RPM, 100mm wheel diameter, and 1-year warranty.

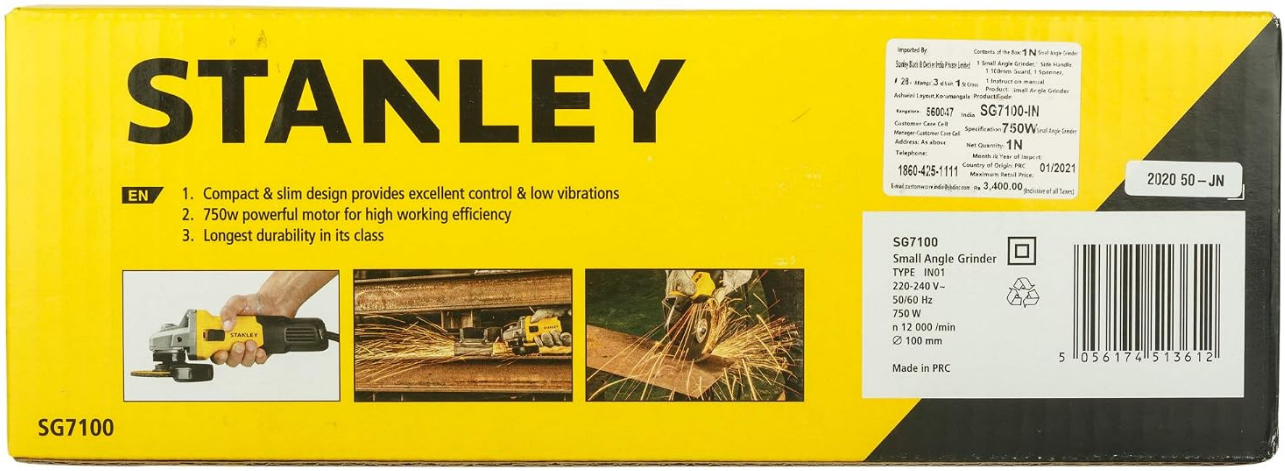


Image 8.2: Back view of the STANLEY SG7100-IN Angle Grinder product packaging, detailing key features such as compact design, 750W motor, and durability, along with product specifications and a barcode (UPC: 5056174513612).

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question