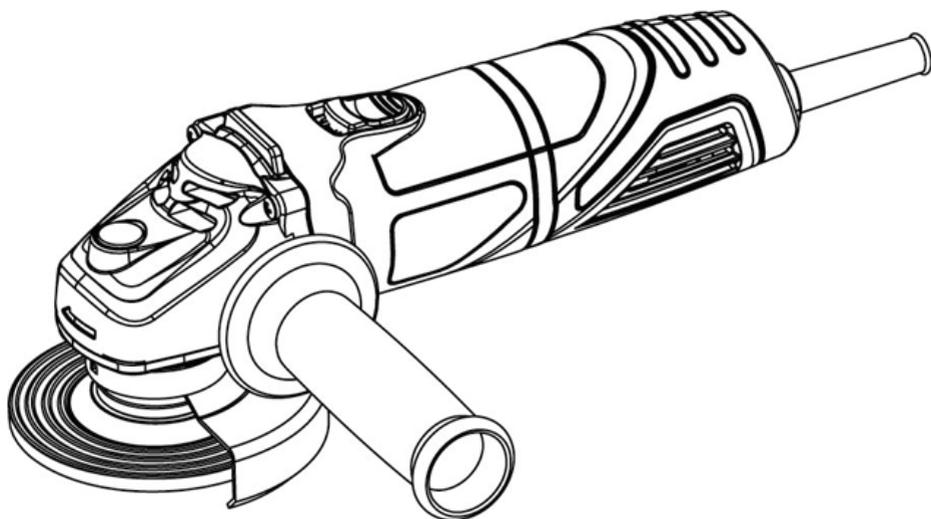


# ZENIT

**POWERTOOLS**

**SEMI-PROFI SERIES**

**ANGLE GRINDER  
AG-125/1000 PROFÍ**



**INSTRUCTION MANUAL**



## GENERAL SAFETY PRECAUTIONS



**WARNING!** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following.

Read all these instructions before operating this product and save these instructions.  
For safe operations:

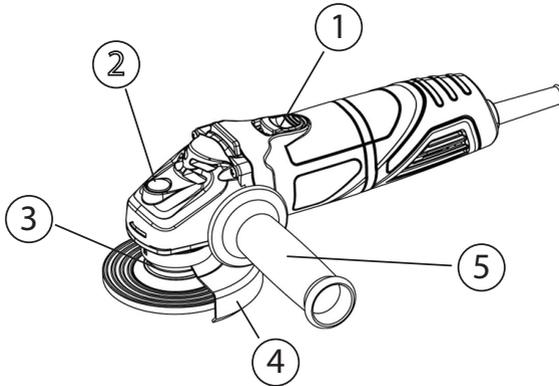
1. Keep work area clean. Cluttered areas and benches invite injuries.
2. Consider work area environment. Do not expose power tools to rain. Do not use power tools in damp or wet locations. Keep work area well lit. Do not use power tools where there is risk to cause fire or explosion.
3. Guard against electric shock. Avoid body contact with earthed or grounded surfaces. (e.g. pipes, radiators, ranges, refrigerators).
4. Keep children and infirm persons away. Do not let visitors touch the tool or extension cord. All visitors should be kept away from work area.
5. Store idle tools. When not in use, tools should be stored in a dry, high or locked up place, out of reach of children and infirm persons.
6. Do not force the tool. It will do the job better and safer at the rate for which it was intended.
7. Use the right tool. Do not force small tools or attachments to do the job of a heavy duty tool. Do not use tools for purposes not intended.
8. Dress properly. Do not wear loose clothing or jewelry; they can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protecting hair covering to contain long hair.
9. Use eye protection. Also use face or dust mask if the cutting operation is dusty.
10. Connect dust extraction equipment. If devices are provided for the connection of dust extraction and collection facilities ensure these are connected and properly used.
11. Do not abuse the cord. Never carry the tool by the cord or yank it to disconnect it from the receptacle. Keep the cord away from heat, oil and sharp edges.
12. Secure work. Use clamps or a vise to hold the work. It is safer than using your hand and it frees both hands to operate tool.
13. Do not overreach. Keep proper footing and balance at all times.
14. Maintain tools with care. Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubrication and changing accessories. Inspect tool cords periodically and if damaged, have it repaired by authorized service center. Inspect extension cords periodically and replace, if damaged. Keep handles dry, clean, and free from oil and grease.
15. Disconnect tools. When not in use, before servicing, and when changing accessories such as blades, bits and cutters.
16. Remove adjusting keys and wrenches. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

17. Avoid unintentional starting. Do not carry a plugged in tool with a finger on the switch. Ensure switch is off when plugging in.
18. Use outdoor extension leads. When tool is used outdoors, use only extension cords intended for outdoor use.
19. Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
20. Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service center. Do not use the tool if the switch does not turn it on and off.
21. Warning Use only accessories or attachments recommended in this instruction manual or in the catalogue of ZENIT TM.
22. Have your tool repaired by a qualified person. This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original ZENIT TM spare parts. Otherwise this may result in considerable danger to the user.

### **SAFETY PRECAUTIONS ON USING ANGLE GRINDER**

1. Always use proper guard with grinding wheel.
2. Accessories must be rated for at least the speed recommended on the tool warning label. Use only depressed center grinding wheels rated for speed 80 m/s or more.
3. Make sure the size of the grinding wheel is compatible with size of the angle grinder and that grinding wheel matches the spindle.
4. Store and keep grinding wheels according to the manufacturer's instructions.
5. Before using a grinder or installing a new wheel, inspect the grinding wheel for chips and cracks. Remove bad wheels immediately.
6. Hold the tool with both hands while starting the tool, since torque from the motor can cause the tool to twist.
7. Never use cut-off wheel for side grinding.
8. Do not use any adapter sleeves to install grinding wheels with holes of bigger diameter.
9. Don't put tool until it comes to a complete stop.

## DESCRIPTION



1. On\Off switch
2. Lock button
3. Spindle
4. Wheel guard
5. Side handle

## TECHNICAL SPECIFICATIONS

Model	AG-125/1000 profi
Rated power	1000 W
Rated voltage	220-240 V
Rated frequency	50-60 Hz
Maximum speed	11000 rpm
Wheel diameter	125 mm

## STANDARD ACCESSORIES

Wrench	1
Side handle	1

Depressed center grinding wheels are not included in standard accessories. Standard accessories list is subject to change without prior notice.

## APPLICATIONS

- Removal of casting fin and finishing of various type of steel, bronze and aluminum materials and castings.

- Grinding of welded sections or sections cut by means of an acetylene torch.
- Grinding of synthetic resin, slate, brick, marble etc.
- Cutting synthetic concrete, stone, brick, marble and analogous materials.

## **PRIOR TO OPERATION**

### 1. Power source.

Ensure that the power source to be utilized conforms to the power source requirements specified on the product nameplate.

### 2. Power switch.

Ensure that the power switch is in the OFF position. If the plug is connected to a receptacle while the switch is in the ON position, the power tool will start operating immediately and can cause serious injury.

### 3. Extension cord.

When the work area is far away from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

### 4. Mounting the wheel guard.

Be sure to mount the wheel guard at an angle that will protect the operator's body from injury by a broken wheel piece.

Installing wheel guard:

- Loosen the screw on the wheel guard.
- Install the wheel guard to the packing gland, turn it to the angle suitable for operation and make adjustment.
- After the adjustment, ensure that the screw is securely tightened on the wheel guard in order to fix it completely.

5. Thoroughly check that the depressed center wheel is free of cracks, splits and other abnormalities before mounting. Make sure it is firmly clamped and has been properly mounted. Refer to section "Depressed center wheel assembly and disassembly".

### 6. Test the grinder before using.

Before actually beginning the grinding work, test the grinder and make sure all accessories are installed correctly.

Duration of the trial run is 30 seconds. Immediately turn it off in case of abnormal vibration or other malfunctions. If any malfunction appears, inspect the grinder carefully to determine malfunction cause.

7. Check spindle lock. Make sure that the push button is disengaged by pushing lock button two or three times before turning on the grinder.

### 8. Side handle installation.

Screw the side handle in into the gear cover.

## **GRINDER OPERATION**

### 1. Grinding pressure

There is no need to press hard when grinding. Usually the grinder's own weight is sufficient to allow the required light contact with surface to be ground. Heavy pressure can result in wheel breakage. It can also damage the surface being ground or damage the grinder's motor.

2. Use proper grinding angle

Grind only with the wheel's edge by lifting the grinder 15°-30°. Do not use the entire surface of the depressed center wheel. Use only the edge of the depressed center wheel.

3. Move the grinder in proper direction

When using a new depressed center wheel, grind transverse to the surface being ground. Once the wheel edge is worn, the workpiece can be ground in any direction.

4. After operation.

Do not put tool until it comes to a complete stop.



CAUTION

Check and make sure the workpiece is firmly clamped.

Make sure air vents are clean when working in areas of dust. Clean the tool carefully with nonmetallic objects.

Never use the grinder in places where the sparks generated by the grinder can ignite the dust of fumes.

Use safety equipment. Always wear eye and ear protection.

If necessary wear other safety equipment such as dust mask, gloves, helmet or apron.

If uncertain wear safety equipment.

If idle disconnect from the power source.

Depressed center wheel assembly and disassembly

Never attempt to assemble or disassemble the depressed center wheel, unless the power switch is in the "OFF" position and the electric cord has been disconnected from the receptacle.

Assembly:

- Turn the disc grinder upside down so that the spindle is facing upward.
- Align the oval-shaped indentation of the wheel washer with the notched part of the spindle, then attach them.
- Fit the protuberance of the depressed center wheel onto the wheel washer.
- Screw the wheel nut onto the spindle.
- While pushing the push button with one hand, lock the spindle by turning the depressed center wheel slowly with the other hand. Tighten the wheel nut by using the supplied wrench.

Disassembly

To remove the depressed center wheel, simply reverse the above-mentioned procedure.



## CAUTION

Tighten the wheel nut securely and confirm that the depressed center wheel does not wobble.

Make sure that the push button is disengaged by pushing lock button two or three times before turning on the grinder.

## MAINTENANCE AND INSPECTION

1. Inspecting the depressed center wheel.

Confirm that there is no crack or any damage to the depressed center wheel.

2. Inspecting the screws

Regularly inspect all screws and ensure that they are fully tightened. Should any of the screws be loosened, retighten them immediately.

3. Inspecting of carbon brushes

The motor employs carbon brushes which are consumable parts. Replace the carbon brush with a new one when it becomes worn to its wear limit. Always keep carbon brushes clean and ensure that they slide freely within the brush.

4. Replacing carbon brushes

Removal

Loose the screw retaining the brush cap.

Use auxiliary wrench or a small screwdriver to pull back the brush spring. Move the spring edge from the brush holder.

Remove the brush pigtail from the brush holder terminal and remove the brush from the brush holder.

Installing

- Install the brush pigtail in the brush holder terminal.

- Install the brush into the brush holder.

- Use auxiliary wrench or a small screwdriver to put the spring edge on the top of the carbon brush,

- Install the cap and tighten the screw D4.

5. Maintenance of the motor

The motor unit winding is the very “heart” of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.



## CAUTION

When using the screwdriver follow these rules:

- continuous use of the power tool should not exceed 15 minutes;
- do not allow mechanical damage (strikes, falls etc.);
- protect the power tool from external sources of heat and chemically active substances, as well as liquid and objects penetration;
- before disconnecting the tool from the power source turn off the On/Off switch;

- check the engine temperature, do not allow overheating;
- change the rotation direction only after switching off the tool and complete stop of rotating parts.

Inobservance of these rules will make warranty void!



**WARNING!** Repair, modification and check of ZENIT power tools should be performed only in authorized service centers ZENIT. While use or maintenance of power tools follow all safety rules and standards.

#### NOTE

Zenit Power Tools are constantly being improved and modified to incorporate the latest technological advancements.

Accordingly, some parts may be changed without prior notice.







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