

**PowerG<sup>®</sup>**

**1800W Angle Grinder**

**PG1800AG**



**Manufacturer: SUMEC Hardware & Tools Co., Ltd**  
**1# Xinghuo Road, National level Nanjing High-Tech Zone,**  
**Nanjing 210061 P.R. China**



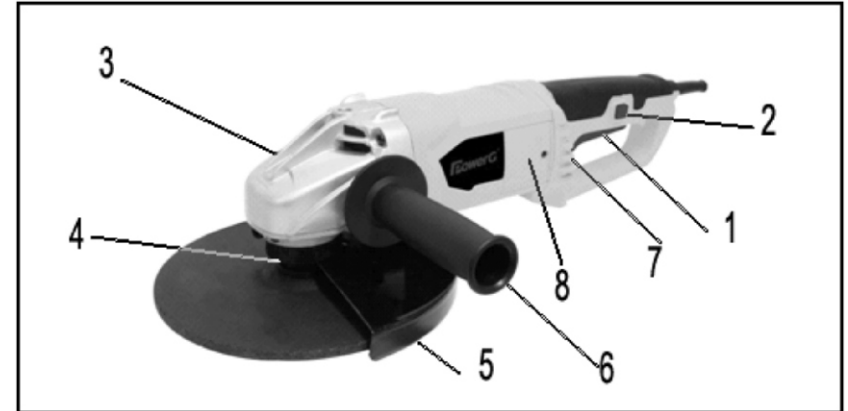
# 1800W Angle Grinder

## PG1800AG




Sumec Europe GmbH  
Hanns-Martin-Schleyler-Str.18a  
47877 Willich, Germany  
Helpline: 0844 856 0793

Picture A







### TECHNICAL DATA

Angle Grinder	PG1800AG
Mains voltage	230~240 V
Mains frequency	50 HZ
Power input	1800 W
No load speed	6000 rpm
Wheel diameter	230 mm
Sound pressure level (LpA)	97.2dB(A) K=3 dB(A)
Power sound level (LwA)	108.2dB(A) K=3 dB(A)

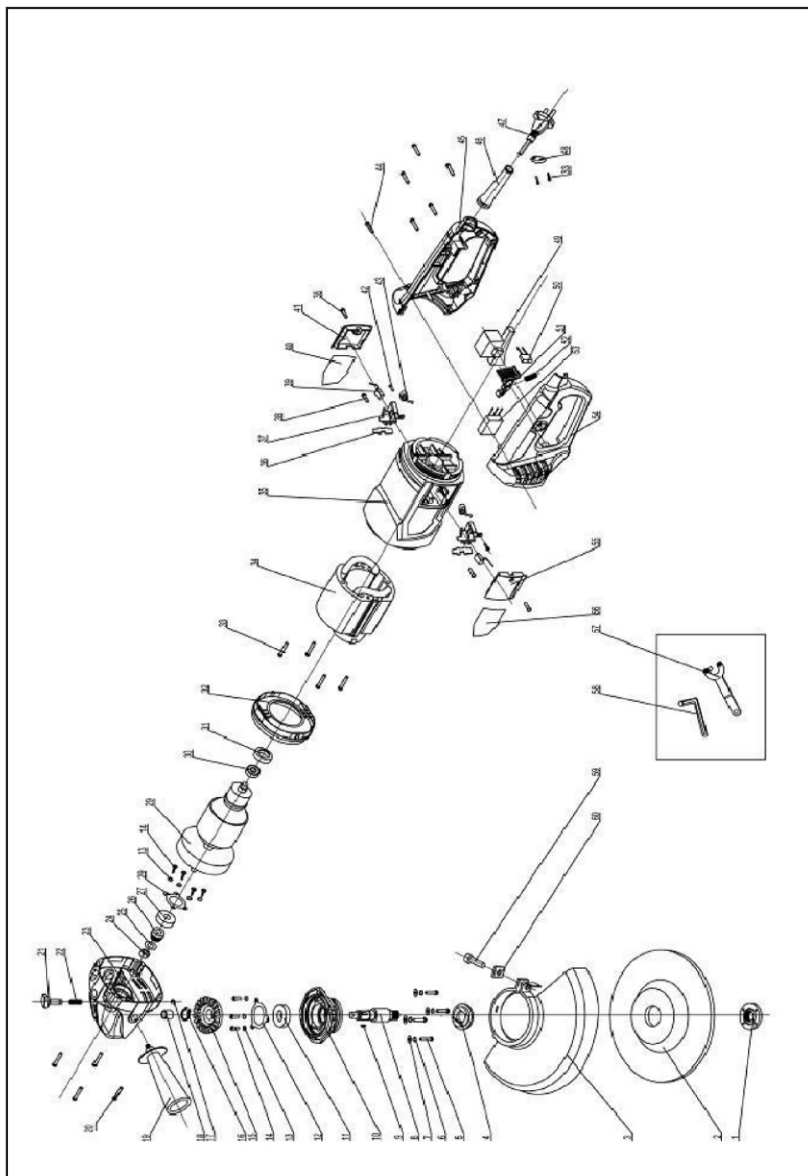
Vibration	$9.490\text{m/s}^2 \cdot K=1.5 \text{ m/s}^2$
Protecting class	II / 





## DESCRIPTION OF SYMBOLS

Please read all of the safety and operating instructions carefully before using this tool. Please pay particular attention to all sections of this User Guide that carry warning symbols and notices.

	Read instruction manual!
	Observe caution and safety notes!
V	Voltage
W	Watts (Effective power)
$n_0$	No-load speed.
	Protect electrical power tool from moisture!
	Caution – electric shock! Danger to life!

Ref	Description	Ref	Descriptio	Ref	Description
1	Press board	21	Lock	41	Brush
2	Grinding	22	Spring	42	Screw
3	Shield	23	Reducing	43	
4	Press board	24	Nut	44	Screw
5	Screw	25	Gasket	45	Right
6	Gasket	26	Small gear	46	Cable
7	Gasket	27	Bearing	47	Cable
8	Output shaft	28	Bearing	48	Cable clip
9	Semicircula	29	Armature	49	Switch
10	Front cover	30	Bearing	50	Capacitanc
11	Bearing	31	Bearing	51	button
12	Bearing	32	Wing	52	Spring
13	Gasket	33	Screw	53	Soft switch
14	Screw	34	Stator	54	Left handle
15	Big gear	35	Housing	55	Brush
16	Wedge reed	36		56	Label
17	Wedge reed	37	Brush	57	Spanner
18	Steel	38	Screw	58	Hexangular
19	Side handle	39	Brush	59	Screw
20	Screw	40	label	60	nut



	<p>Check that the device, mains lead and plug are in good condition!</p>
	<p>Safety class II</p>
	<p>Wear hearing protection, dust protection mask, protective glasses and protective gloves.</p>
	<p>Dispose packaging and appliance in an environmentally -friendly way!</p>

## GENERAL OPERATIONAL 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; for example, do not use circular saw to cut tree limbs or logs.
  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. Do not abuse the cord. Never carry the tool by the cord or yank it to disconnect it from the receptacle. Keep the

## SUMEC

Declaration of Conformity

We,

SUMEC Hardware & Tools Co.,LTD

**1# Xinghuo Road, National level Nanjing High-Tech**

**Zone,**

**Nanjing 210061 P.R. China**

Declare that the product

Angle Grinder

Model No. PG1800AG

Complies with the essential safety and health requirement of the following directives:

2006/42/EC

2004/108/EC

2006/95/EC

Standards and technical specification referred to:

EN55014-1:2006

EN55014-2:1997+A1:2001

EN61000-3-2:2006

EN61000-3-3:1995+A1:2001+A2:2005

EN60745-1:2009

EN60745-2-3:2007+A11: 2009

Authorized Signatory

Date: 01.01.2010

Signature:

*Cai Ji Bo*

Name: Cai Jibo

General Manager

SUMEC Hardware & Tools Co.,LTD



The guarantee does not cover accidental damage or misuse.

This product must be used in accordance with the instructions contained in this manual.

The guarantee will be rendered invalid if the product has been damaged by unauthorised repairs or resold.

Accessories are not covered by the guarantee.

If you have any problems or questions concerning the product, please contact our customer helpline on 0844 856 0793.

cord away from heat, oil and sharp edges.

11. 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.
12. Do not overreach. Keep proper footing and balance at all times.
13. 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.
14. Disconnect tools. When not in use, before servicing, and when changing accessories such as blades, bits and cutters.
15. Avoid unintentional starting. Do not carry a plugged-in tool with a finger on the switch. Ensure switch is off when plugging in.
16. Use outdoor extension leads. When tool is used outdoors, use only extension cords intended for outdoor use.
17. Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
18. 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 handling instructions. Have defective switches replaced by an authorized service center. Do not use the tool if the switch does not turn it on and off.

19. **Warning!** The use of any accessory or attachment, other than those recommended in this handling instructions, may present a risk of personal injury.
20. 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 spare parts. Otherwise this may result in considerable danger to the user.

## PRECAUTIONS ON USING ANGLE GRINDER

- a) This power tool is intended to function as a grinder tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric

to clean the housing.

- 4) Never use petrol, solvents or cleaning agents that might attack plastic.
- 5) Store the tools, instruction manual and where necessary the accessories in the original packaging. That way you will always have all the information and parts ready to hand.

**Do not dispose of electrical appliances with your domestic waste!**



The packaging comprises exclusively environmentally-friendly material. Dispose of it in your local recycling containers.

## Guarantee and Service

This product is guaranteed for 1 year from the original date of purchase, the guarantee applies to material and production defects. This warranty is not valid without the original dated receipt of purchase.

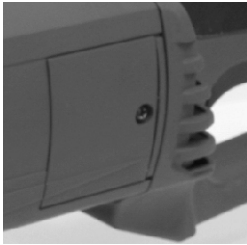
If the product shows defect as a result of material and production defects during the period of guarantee, providing that the product has been used properly and for the purpose which it has been intended, then faulty products will either be replaced or refunded.

Picture A) and rotary the handle easily.

### Replacing carbon brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time.

Use a screwdriver to remove the brush holder caps(8 in **Picture A**). Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.



### Cleaning and Maintenance

- 1) Always keep the device clean, dry and free of oil or grease.
- 2) Clean the device immediately after you have finished using it
- 3) Do not allow any liquids to enter the device. Use a cloth

shock, fire and/or serious injury.

- b) Operations such as sanding, wire brushing, polishing or cutting-off are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.
- c) Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
- d) The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
- e) The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.
- f) The centre holesize of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool. Accessories with centre holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- g) Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips



and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.

Damaged accessories will normally break apart during this test time.

- h) Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations . The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- i) Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- j) Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting

\* Always be sure that the side handle is installed securely before operation.

Screw the side handle securely on the position of the tool as shown in the figure.

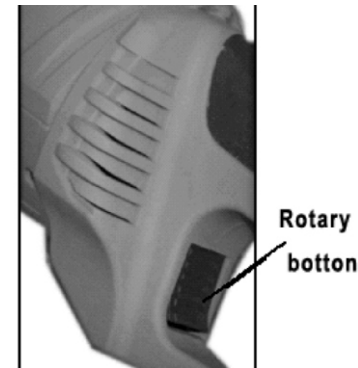
### Switch function (figure A)


#### CAUTION:

\* Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the “OFF” position when released.

To start the tool, simply press the switch trigger. Release the switch trigger to stop.

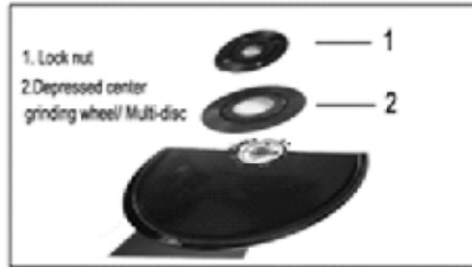
### Rotary handle



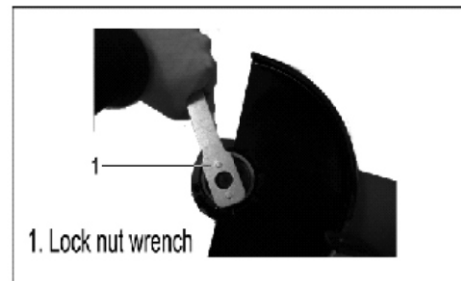
 **CAUTION:** Always be sure that the tool is switched off and unplugged before attempting to rotary the handle.

To rotary the handle, simply press the rotary button (7 in

\* Always use supplied guard when depressed center grinding wheel/Multi-disc is on tool. Wheel can shatter during use and guard helps to reduce chances of personal injury.



a) Mount the inner flange onto the spindle. Fit the wheel/disc on the inner flange and screw the lock nut onto the spindle.



b) To tighten the lock nut, press the shaft lock firmly so that the spindle cannot revolve, then use the lock nut wrench and securely tighten

clockwise.

c) To remove the wheel, follow the installation procedure in reverse.

### Installing side handle



**CAUTION:**

accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.

- k) Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- l) Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
- m) Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- n) Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- o) Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- p) Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

## APPLICATION

### Check the delivery parts

Carefully remove the machine from its packaging and check as the following parts are complete:

- 1 pc Grinding Disc
- 1 Side Handle
- 1 pc Wrench
- Plastic Carry Case
- Operating Instruction

If any parts are missing or damaged, please contact with your dealer.

### Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page (Pic.A)

- 1 On/off switch
- 2 Lock-off button
- 3 Shaft Knob
- 4 Flange
- 5 Guard

- 6 Side handle
- 7 Rotary button
- 8 Brush hold caps

The accessories illustrated or described are not included as standard delivery.

## Operation

### Mounting and removing the guard

- a) First remove the guard as described below.
- b) Place the guard (5 in Picture A) on the machine
- c) Tighten screw firmly.
- d) To remove the guard, proceed in reverse order.
- e) In order to remove a drill or screw bit, you proceed in reverse order.



Never use the machine without guard

### Installing or removing depressed center grinding wheel/Multi-disc

#### WARNING: