

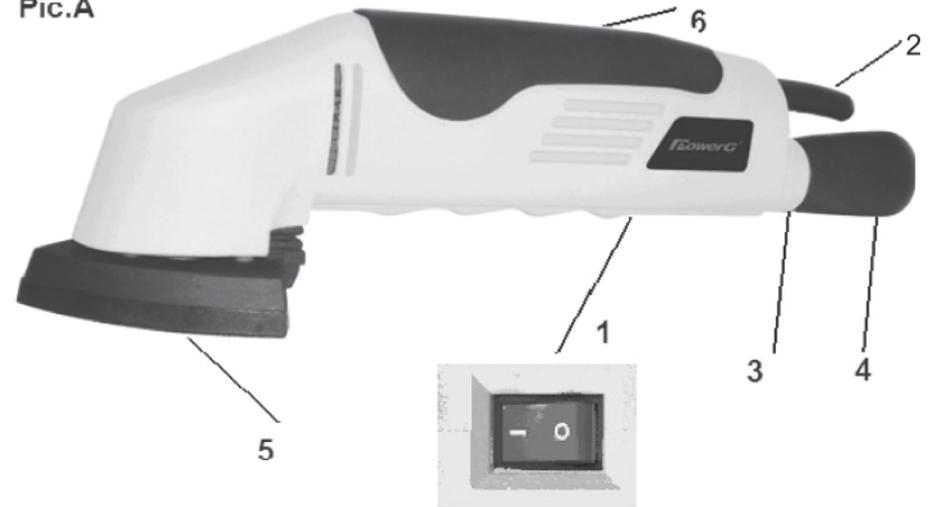
PowerG[®]

180W Detail Sander

PG180DS



Pic.A



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



TECHNICAL DATA

Detail Sander	PG180DS
Rated voltage/ Frequency	230-240V~50Hz
Rated input power	180W
No-load speed	10000 rpm
Dimension	90*90*90mm
Sound pressure level	$L_{pA} = 76 \text{ dB(A)}$ $K_{pA} = 3,0 \text{ dB(A)}$
Power sound level	$L_{wA} = 87 \text{ dB(A)}$ $K_{wA} = 3,0 \text{ dB(A)}$
Vibration	$a_h = 5.11 \text{ m/s}^2$ $K = 1.5 \text{ m/s}^2$
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!
	Check that the device, mains lead and plug are in good condition!
	Safety class II
	Wear hearing protection, dust protection mask, protective glasses and protective gloves.
	Dispose packaging and appliance in an environmentally -friendly way!

GENERAL SAFETY INSTRUCTIONS

WARNING!

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **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.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

1) Electrical safety



To avoid danger to life from electric shock:

- a) **The mains plug on the device must match the mains socket. The plug must not be modified in any way. Do not use an adapter plug with devices fitted with a protective earth.** Unmodified plugs and matching sockets reduce the risk of electric shock.
- b) **Avoid touching earthed surfaces such as pipes, radiators, ovens and refrigerators with any part of your body.** There is an increased risk of electric shock if your body is earthed.
- c)  **Keep the device away from rain or moisture.** Water entering an electrical device increases the risk of electric shock.
- d) **Do not use the mains lead for any purpose for which it was not intended, e.g. to carry the device, to hang up the device or to pull the mains plug out of the mains socket. Keep the mains lead away from heat, oil, sharp edges or moving parts of the device.** Damaged or tangled mains leads increase the risk of

electric shock.

- e) **When working outdoors with an electrical power tool always use extension cables that are also approved for use outdoors.** The use of an extension cable suitable for outdoor use reduces the risk of electric shock.
- f) **Use a residual current device (RCD) for protection if operating the electrical power tool in a moist environment is unavoidable.** The use of an RCD reduces the risk of electric shock.

2) Personal safety

- a) **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.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Avoid unintentional operation of the device. Check that the electrical power tool is switched off before you connect it to the mains, pick it up or carry it.** Accidents can happen if you carry the device with your finger on the ON / OFF switch or with the device switched on.
- d) **Remove any setting tools or spanners before you switch the device on.** A tool or spanner left attached to a rotating part of a device can lead to injury.
- e) **Avoid placing your body in an unnatural position. Keep proper footing and balance at all times.** By doing this you will be in a better position to control the device in unforeseen circumstances.
- f) **Wear suitable clothing. Do not wear loose clothing or jewellery.**

Keep your hair, clothing and gloves clear of moving parts.

Loose clothing, jewellery or long hair can become trapped in moving parts.

- g) If vacuum dust extraction and collection devices are fitted do not forget to check that they are properly connected and correctly used.** The use of these devices reduces the hazard presented by dust

- c) Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- d) Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- e) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
- f) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

- 3) tool use and care**
 - a) Do not force the power tool. Use the power tool correctly for your application.** The correct use will do the job better and safer at the rate for which it was designed.
 - b) Do not use the power tool if the switch couldn't on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
 - c) 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.

- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

SPECIAL SAFETY RULES FOR DETAIL SANDER

- a)** Securely support the workpiece. Use clamps or a vice to grip the workpiece firmly. This is much safer than holding it in your hand.
- b)** Never support yourself by placing your hands near or in front of the device or the workpiece surface. A slip can result in injury.
- c)** If a dangerous situation arises, pull the mains plug immediately out of the mains socket.
- d)** Always work with the mains lead leading away from the rear of the

device.

- e) Danger of fire from flying sparks ! Abrading metal creates flying sparks. For this reason, always make sure that nobody is placed in any danger and that there are no inflammable materials near the working area.

f)  **Warning! Noxious fumes!**

Any harmful / noxious dusts generated from sanding represent a risk to the health of the person operating the device and to anyone near the work area.



Wear protective glasses and a dust mask!

- g) When sanding wood and in particular when working on materials that give rise to dusts that are hazardous to health, the sander must be connected to a suitable external dust extraction device.
- h) Ensure that there is adequate ventilation when working on plastic, **paint, varnish etc.**
- i) Do not soak the materials or the surface you are about to work on with liquids containing solvents.
- j) Do not abrade moistened materials or damp surfaces.
- k) Avoid sanding paints containing lead or other substances hazardous to health.
- l) Do not work on materials containing asbestos. Asbestos is a known carcinogen.
- m) Avoid contact with the moving sanding sheet.
- n) Operate the device only with an attached sanding sheet.
- o) Never use the device for a purpose for which it was not intended nor with non-original parts / accessories. The use of tools or accessories other than those recommended in the operating instructions could lead to you suffering an injury.
- p) Switch the device off and allow it to come to a standstill before you

put it down.

- q) Always keep the device clean, dry and free of oil or grease.

4) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

APPLICATION

Intended Use

The device is intended for dry sanding and polishing of wood, plastic, metal, filler and painted surfaces. The device is particularly suitable for corners, profiles

or difficult to access places. Any other use or modification to the device shall be considered as improper use and could give rise to considerable dangers. We will not accept liability for loss or damage arising from improper use.

Not suitable for commercial use.

Check the delivery parts

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

- Detail sander
- Dust extractor
- 10pcs sanding sheets
- 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. Mains lead
3. Dust extraction spout
4. Adapter for external vacuum extraction
5. Backing plate
6. Soft grip

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

Operation

Take note of the mains voltage. The mains voltage at the mains socket must match that shown on the rating plate on the device. Make sure that the device is switched off before you connect it to the mains supply.

Note: Always switch on the delta sander before bringing it into contact with the workpiece material.

Switching on the device

Press the ON / OFF switch 1 into setting "I".

Switching off the device

Move the ON / OFF switch 1 into setting "0".

Vacuum dust extraction



Warning ! Danger of fire!

There is the danger of fire when working with electrical devices that have a dust box or can be connected to a vacuum cleaner. Under certain conditions the wood dust in the dust extraction bag (or in the vacuum's dust bag) may ignite, e.g. as a result of flying sparks generated when abrading metals or metal objects left in wood. This can happen particularly if the wood dust is mixed with paint residue or other

chemicals and the abraded particles are hot from prolonged abrasion. Therefore you must empty the device's dust collection box and the vacuum cleaner's dust bag before taking a break or stopping work and always avoid overheating of the abraded particles and the device.



Wear a dust mask!



Warning ! Always check that the mains plug is out of the socket before doing any work on the device.

Adapter for external vacuum

Extraction Connection

Push the adapter 4 for external vacuum extraction into the dust extraction spout 3. When doing this observe the guide markings on the device and adapter. Turn the adapter 4 to lock in place.

Removal:

Pull the adapter 4 for external vacuum extraction into the dust extraction spout 3.

Attaching / detaching sanding sheets



Warning ! Always check that the mains plug is out of the socket before doing any work on the device.

Attaching:

Put the Sanding sheet on the backing plate 5 and make sure they are firmly stuck to backing plate.

Detaching:

Simply pull the sanding sheet off the backing plate.

Sanding and surfaces

The shape of the delta sander allows you to sand workpieces even in

their difficult to access places, corners and edges. Sanding performance and surface quality depend on the grade of sanding sheet.

Always use sanding sheets with grades that are suitable for the particular surface you are sanding. The speed selected should also be appropriate to the task undertaken.

Advice on use

- a) Switch the device on before placing it against the workpiece.
- b) Apply light sanding pressure only.
- c) Advance the device at an even rate.
- d) Change sanding sheets at the appropriate time.
- e) Do not work on different types of material using the same sanding sheet (e.g. wood and then metal). To achieve the best sanding results you should use unworn, undamaged sanding sheets.
- f) Clean the sanding sheet from time to time with a vacuum cleaner.

Maintenance and cleaning



Warning ! Always check the mains plug is out of the socket before doing any work on the device.

The delta sander is maintenance-free.

- a) Clean the device frequently. This should be done immediately after you have finished using it.
- b) For cleaning the housing use a dry cloth only.
- c) Remove any adhering sanding dust with a narrow paint brush.
- d) Never use any kind of sharp object or petrol, solvents or cleaning agents that might attack plastic. Do not allow any liquids to enter the inside of the device.
- e) Always keep the ventilation slots clean.

Do not dispose of electrical appliances with your domestic waste!



- 1) The packaging comprises exclusively environmentally-friendly material. Dispose of it in your local recycling containers.
- 2) Take the battery to your nearest authorized service center or distributor that has been designated as a battery recycling location.

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.

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.

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

Detail Sander

Model No. PG180DS

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

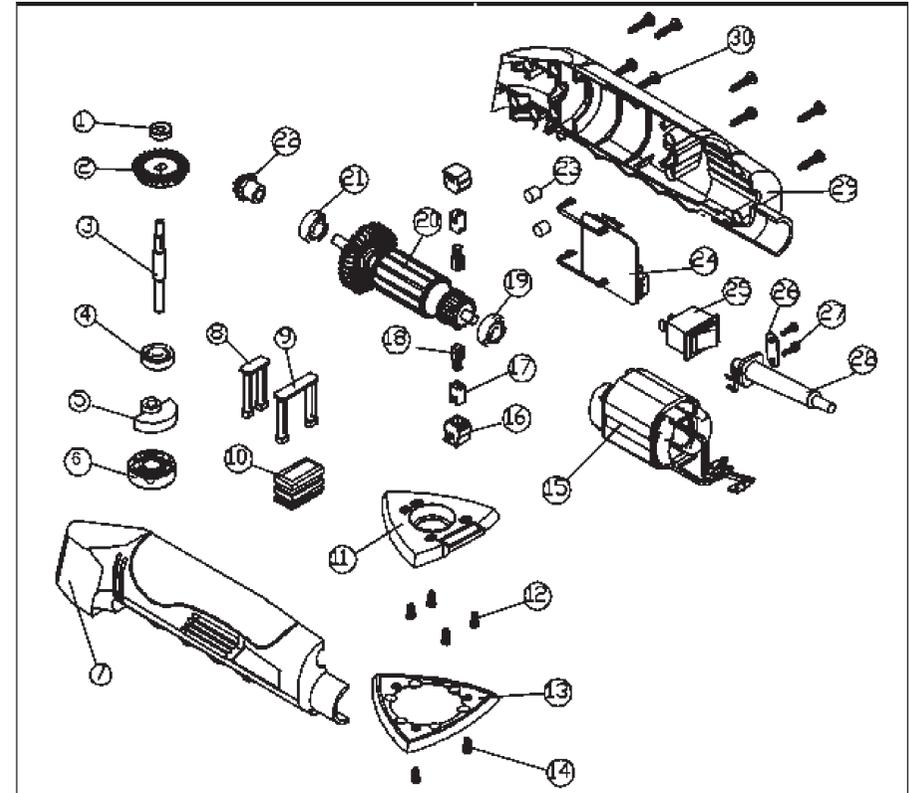
EN55014-2:1997/+A1:2001

EN61000-3-2:2006

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

EN60745-1:2009

EN60745-2-4:2009



Authorized Signatory

Date: 01.01.2010

Signature:

Cai Ji Bo

Name: Cai Jibo

General Manager

SUMEC Hardware & Tools Co.,LTD



Ref.	Description	Ref.	Description
1	Bearing	16	Brush holder
2	Bevel Gearing	17	Brush bushing
3	Shaft	18	Carbon brush
4	Bearing	19	Bearing
5	Excentric block	20	Rotor
6	Bearing	21	Bearing
7	Left housing	22	Bevel gear
8	Oscillating bracket	23	Rubber sleeve
9	Oscillating bracket	24	PCB
10	Induced draft pipe	25	Switch
11	Soft pad	26	Clip
12	Tapping screw	27	Tapping screw
13	Hooked sanding pad	28	Cord sleeve
14	Tapping screw	29	Right housing
15	Stator	30	Tapping screw

**180W Detail Sander
PG180DS**



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