说明书材质要求：105g 有光铜版纸	说明书成品尺寸：105*143mm
第一：专色用6级防晒油墨+CMYK油墨要求： 1.PANTONE137C专色油墨（专色用6级防晒油墨）： 如果自己配色，油墨配比为：泗联中黄（防晒）2000g 泗联金红（防晒）225g 2.C色油墨：泗联天蓝墨 3.M色油墨：泗联金红墨 4.Y色油墨：pantone123C专色油墨 5.K色油墨：泗联黑墨	第二：特别注意： 1.印刷时看样请参考我司提供的实物样品颜色。不得偏色 2.137C的专色不得参考C=0，M=35，Y=90，K=0对应的四色色谱颜色来看样印刷 Pantone 137C Black（两色印刷）
折叠方式：风琴折（20P 以下用风琴折） 特殊情况：16P/20P：风琴折 + 对折	备注：

特别注意：此页内容不印刷

风琴折 + 对折 页面顺序

16P 页面顺序

9	10	11	封面
12	13	14	封底

1	2	3	4
5	6	7	8

20P 页面顺序

11	12	13	14	封面
15	16	17	18	封底

1	2	3	4	5
6	7	8	9	10

更改记录	1.添加衍生货号			1.更新版式			1.增加−9货号		
							Rea 2026/08/24 10:45:09 这个有最新说明书模版吗 Minney 2026/08/24 10:50:23 没有 请先用这个吧 只是加一个货号		
	0224.V05	2024.2.18	CH	0724.V06	2024.7.24	LY	0826.V07	2026.8.24	LYD
	版本号	日期	设计师	版本号	日期	设计师	版本号	日期	设计师

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PRODUCT MANUAL

PALM SANDER

INNOVATED BY INGCO INDUSTRIAL INNOVATED BY INGCO

PS2416 UPS2416
PS2416xy UPS2416xy
x (blank,1,2,3,4,5,6,7,8,9,E,S,A,M)
y (blank,-1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

SCAN FOR VIDEO

Original Instructions

GENERAL POWER TOOL SAFETY WARNINGS

⚠ **WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) 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.*

2) Electrical safety

a) **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.*

b) **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.*

c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*

d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

3) 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 a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.*

c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*

d) **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.*

e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*

f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

g) **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.*

h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*

4) Power tool use and care

a) **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.*

b) **Do not use the power tool if the switch does not turn it 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 remove the battery**

pack, if detachable, 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 and accessories. 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.*

h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

5) 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.*

THE SYMBOLS IN INSTRUCTION MANUAL

	Double insulated for additional protection
	Read the instruction manual before using.
	CE conformity.
	Safety alert. Please only use the accessories supported by the manufacturer.
	Wear safety glasses, hearing protection and dust mask.
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

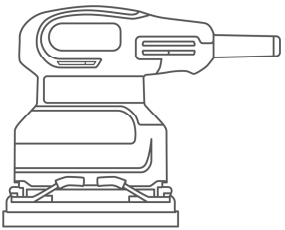
ADDITIONAL SAFETY WARNING

a) Instructions how to deal with harmful/toxic dusts arising from sanding e.g., lead painted surfaces, woods and metals.
b) These instructions shall be proceeded by a warning that contacts with or inhalation of these dusts can endanger the health of operator and bystanders.
c) These instructions shall include the use of appropriate personal protective equipment.
d) Use a face mask and safety goggles, if necessary, when using the mouse sander, as the dust may be harmful to health.
e) This mouse sander is only intended for use on wood, metal, plastic and similar materials.
f) The mouse sander must not be used on plaster or similar surfaces.
g) Ensure any loose work items are secured before sanding.
h) Never use for sanding materials containing asbestos.
i) Never use for sanding surfaces painted with lead-based paint.
j) Sparks can be generated when sanding metal surfaces. Avoid using in flammable surroundings and in the vicinity of flammable materials.
k) Keep the cord well clear of the working area.
l) Only use the power tool for dry sanding. Water entering a power tool will increase the risk of electric shock.
m) Warning: Danger of fire! Avoid overheating the workpiece and the sander. Always empty the dust collector before taking a break from work. Sanding dust in the dust bag, microliter, paper bag (or in the filter bag or vacuum cleaner filter) can spontaneously combust under certain conditions, for example if flying sparks are created when sanding metals. This risk is increased if the sanding dust is mixed with paint or polyurethane residue or with other chemical substances and if the workpiece is hot as a result of prolonged work.
n) Clean the air vents on your power tool regularly. The motor’s fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
o) Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
p) Always wait until the power tool has come to a complete stop before placing it down

INTENDED USE

The power tool is intended for dry sanding of wood, plastic, metal, filler and varnished surfaces.

SPECIFICATIONS



Technical specifications

Model No.	PS2416 PS2416xy	UPS2416 UPS2416xy	PS2416-9	UPS2416-9
Rated input power	240W	240W	240W	240W
Rated voltage	220-240V~50/60Hz	110-120V~50/60Hz	220-240V~60Hz	127V~60Hz
No-load speed	14000/min	14000/min	14000/min	14000/min
Bottom base	110x100mm	4-3/8″x4″	110x100mm	4-3/8″x4″

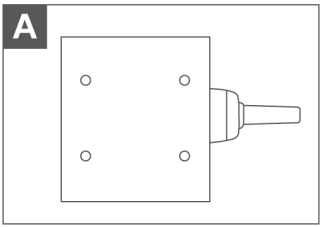
Model No. Note: x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

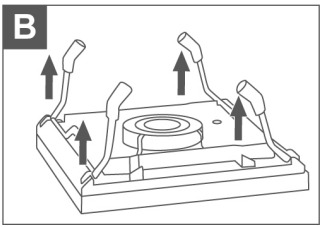
- Due to our continuing program of research and development, the specifications herein are subject to change without notice.

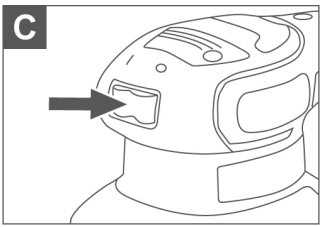
Accessories

1. Sanding papers (Grit: P120x2Pcs, P80x3Pcs) 5pcs
2. Carbon brushes 1set

OPERATION PICTURE







OPERATION

⚠ CAUTION!

Before using the tool, read the instruction book carefully.

Fitting the sanding paper (see Figure A&B)

Fit the sanding paper over the base. Make sure the sanding paper is even with the edges and that the dust collection holes in the base and sanding paper is aligned and that the sanding paper is taut on the base. (see Figure A)

Lift the sanding paper retaining clips to the open position and insert one end of the sanding paper under the retaining clip. (see Figure B)

Operating the " O/I " switch (see Figure C)

" O/I " switch

Depress to start and release to stop your tool.

MAINTENANCE&MALFUNCTIONS

Possible malfunctions and methods of their eliminations

Malfunction	Probable causes	Actions
When the machine is turned on, the electric motor does not work.	● Switch failure ●The power cord or wiring is broken, power cord plug malfunction; ● No brush contact with the collector; ● Wear/damage of brushes	Disconnect the machine from the mains and contact a qualified specialist.
Formation of a circular fire on the collector	● Brush wear/damage of the brush holder; ● Malfunction in the armature coil	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
When working, smoke or the smell of burning insulation appears from the ventilation openings.	● Malfunction in the electric motor coil; ● Malfunction of the electrical part of the tool.	
Increased noise in the gearbox	● Wear/breakage of gears or bearings	
When the machine is turned on, the spindle does not rotate	● Gearbox failure.	

Critical state criteria

Critical state criteria	Probable causes	Actions
Cracks on the surfaces of bearing and housing parts	Fatigue deformation of metal	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
The power cord or plug is damaged	Overload or breakage	
Excessive wear or damage to the motor or reductor mechanism, or a combination of signs	Fatigue deformation of metal	

Critical state criteria

List of critical failures	Actions
Electric motor sparking	It is necessary to contact a qualified specialist
The appearance of extraneous noise	It is necessary to contact a qualified specialist
If the above malfunctions are detected, it is necessary to disconnect the machine from the mains and contact a qualified specialist	

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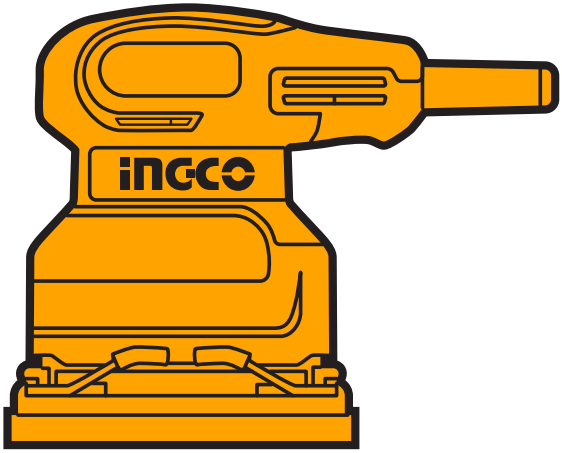

MADE IN CHINA 0826.V07

NEWWAY TECHNOLOGY (SUZHOU) CO., LIMITED
No. 20 Dagang Road, Fuqiao Town, Taicang City, China

INGCO Global www.ingco.com