物料号：2SDI103PK11000A3

材料：80克双胶纸

颜色：1色（黑）

尺寸：A5

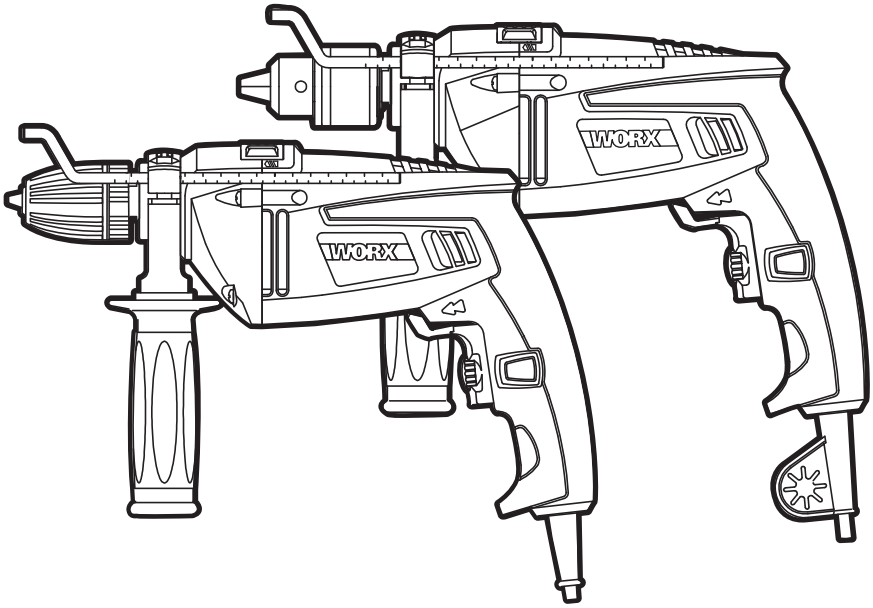
页数：12P

装订方式：骑马钉

备注：

特别提示：
此小页为说明书印刷要求，不需要输出菲林，不作为印刷内容。

WORX®



SAFETY AND OPERATING MANUAL

ORIGINAL INSTRUCTIONS

Impact drill **WX312 WX312.1 WX313**

GENERAL POWER TOOL SAFETY WARNINGS

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.
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 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, clothing and gloves 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.

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 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.

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.

ADDITIONAL SAFETY POINTS FOR YOUR DRILL

1. **Wear ear protectors with impact drills.** Exposure to noise can cause hearing loss.
2. **Use auxiliary handles supplied with the tool.** Loss of control can cause personal injury.
3. **Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a 'live' wire will make exposed metal parts of the tool 'live' and shock the operator.
4. Do not use the drill near water.
5. Do not use the drill as a screwdriver.
6. Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
7. Fully unwind extension cords to avoid potential overheating.
8. When an extension cord is required you must ensure it has the correct ampere rating for your power tool and that it is in a safe electrical condition.
9. Ensure your supply voltage is the same as your tool rating plate voltage.
10. Your tool is double insulated for additional protection against a possible electrical insulation failure within the tool. ⧈
11. Always check walls and ceilings to avoid hidden power cables and pipes.
12. After long working periods, external metal parts and accessories could be hot.
13. Wear eye protection when operating this tool.
14. Maintain a firm grip on the handle when you are working. Always use the auxiliary handles supplied with the tool. Loss of control can cause personal injury.

SYMBOLS

To reduce the risk of injury, user must read instruction manual

Warning

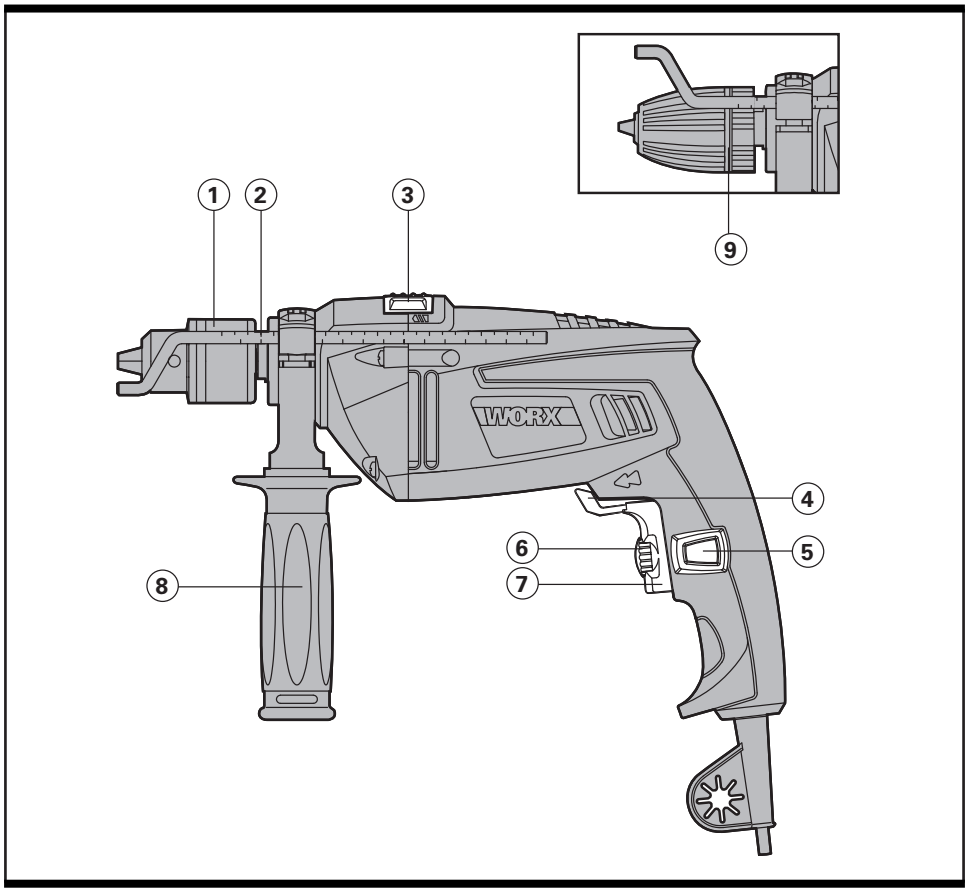
Double insulation

Wear eye protection

Wear ear protection

Wear 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.



1. KEY CHUCK (WX312)
2. DEPTH GAUGE
3. DRILL/HAMMER DRILL FUNCTION SELECTOR
4. FORWARD AND REVERSE ROTATION CONTROL LEVER
5. SWITCH LOCK ON BUTTON
6. VARIABLE SPEED CONTROL
7. ON/OFF SWITCH
8. AUXILIARY HANDLE
9. KEYLESS CHUCK (WX312.1 WX313)

*** Not all the accessories illustrated or described are included in standard delivery.**

TECHNICAL DATA

Type **WX312 WX312.1 WX313 (300-329-designation of machinery, representative of impact drill)**

		WX312 WX312.1	WX313
Voltage		230-240V~50Hz	
Power input		810W	701W
No load speed		0-2800/min	
Impact rate		0-44800/min	
Chuck capacity		13mm	
Drilling capacity	Masonry	16mm	
	Wood	32mm	
	Steel	13mm	
Protection class		⧈/II	
Machine weight		2.42kg	

NOISE/VIBRATION INFORMATION

A weighted sound pressure	L_{pA} = 87.4dB(A)
A weighted sound power	L_{wA} = 98.4dB(A)
K_{PA} & K_{WA}	3.0dB(A)
Wear ear protection when sound pressure is over	80dB(A)

VIBRATION INFORMATION

Vibration total values (triax vector sum) determined according to EN 60745:	
Impact drilling into concrete	Vibration emission value a_{hID} = 12.77m/s²
	Uncertainty K = 1.5m/s²
Drilling into metal	Vibration emission value a_{hD}= 4.67m/s²
	Uncertainty K = 1.5m/s²

WARNING: The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:

How the tool is used and the materials being cut or drilled.
The tool being in good condition and well maintained
The use the correct accessory for the tool and ensuring it is sharp and in good condition.
The tightness of the grip on the handles and if any anti vibration accessories are used.
And the tool is being used as intended by its design and these instructions.

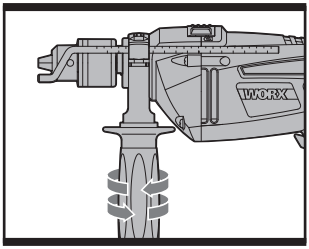
This tool may cause hand-arm vibration syndrome if its use is not adequately managed.

WARNING: To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.
Helping to minimise your vibration exposure risk.
ALWAYS use sharp chisels, drills and blades
Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate)
If the tool is to be used regularly then invest in anti vibration accessories.
Avoid using tools in temperatures of 10^0C or less
Plan your work schedule to spread any high vibration tool use across a number of days.

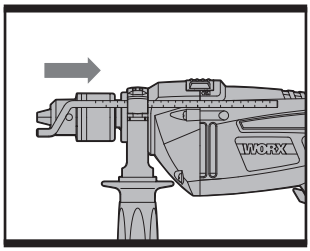
ACCESSORIES

Auxiliary handle	**1**
Depth gauge	**1**
Chuck key (WX312)	**1**
HSS drill bit: 5,6,8mm (Each 1pc WX312.1)	**3**
Masonry drill bit: 6,8,10mm (Each 1pc WX312.1)	**3**

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.



A



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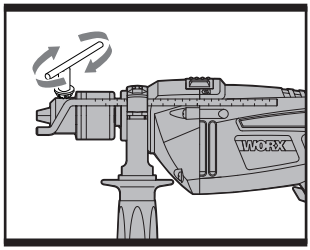
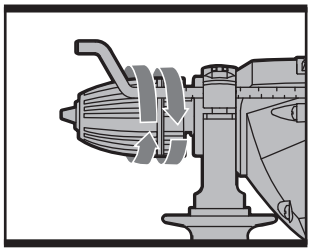


C1



C2

OPERATION

NOTE: Before using the tool, read the instruction book carefully.

INTENDED USE

The machine is intended for impact drilling in brick, concrete and stone as well as for drilling in wood, metal and plastic.

1. AUXILIARY HANDLE (See Fig. A)

Slide the handle onto the drill and rotate to the desired working position. To clamp the auxiliary handle rotates the handgrip clockwise. To loosen the auxiliary handle rotate the hand grip anti-clockwise. Always use the auxiliary handle.

2. INSTALLING THE DEPTH GAUGE (See Fig. B)

The depth gauge can be used to set a constant depth to drill. To use the depth gauge, loosen the handle by rotating the bottom section of handle anti-clockwise. Insert the depth gauge through hole in handle. Slide the depth gauge to required depth and tighten fully.

3. INSERTING A TOOL INTO CHUCK (See Fig. C1, C2)

WARNING: Before any work on the machine itself, pull the mains plug.

KEY CHUCK (1) (WX312)

Remove chuck key from key storage tab at base of drill handle, place key into chuck, turn key anti-clockwise to undo/loosen chuck, inset drill/tool and firmly tighten chuck by turning key clockwise. Remove key and replace in storage tab at base of drill handle. (See Fig. C1)

KEYLESS CHUCK (9) (WX312.1 WX313)

To open the chuck jaws rotate the front section of the chuck while holding the rear section. Insert the drill bit between the chuck jaws and rotate the front section in the opposite direction while holding the rear section. Ensure that the drill bit is in the center of the chuck jaws. Finally, firmly rotate the two separate chuck sections in opposite directions. Your drill bit is now locked in the chuck. (See Fig. C2)

4. ON/OFF SWITCH

Depress the switch to start the tool and release it to stop your tool.

5. SWITCH LOCK-ON BUTTON (See Fig. D)

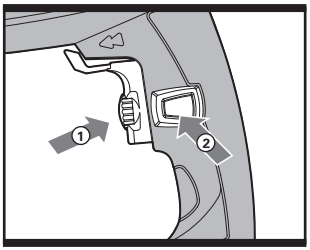
Depress on/off switch then lock-on button, release on/off switch first and lock-on button second. Your switch is now locked on for continuous use. To switch off your

tool just depress and release the on/off switch.

6. VARIABLE SPEED CONTROL (See Fig. E)
Adjust the variable speed control to increase or decrease the speed according to the material and accessory to be used (also possible during no load operation). Low speed will provide low torque and high speed gives higher torque.

7. FORWARD AND REVERSE ROTATION CONTROL (See Fig. F)
For drilling use forward rotation marked "◁◁" (lever is moved to the left). Only use reverse rotation marked "▷▷" (lever is moved to the right) to remove screws or release a jammed drill bit.
NOTE: Never move the forward/reverse switch whilst the drill in operation or the on/off switch is locked as this will damage the drill.

8. HAMMER OR DRILLING CONTROL (See Fig. G)
When drilling masonry and concrete push the drill/impact action selector switch into the hammer position " ". When drilling wood, metal, plastic push the switch into the drill position " ".



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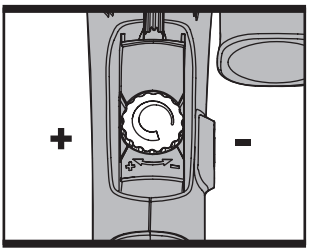

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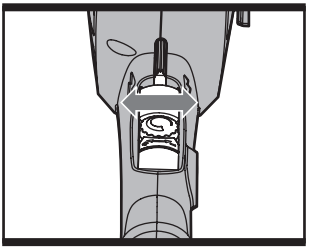
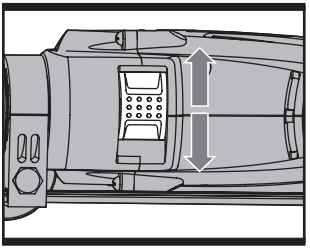
WORKING HINTS FOR YOUR DRILL

1. Drilling masonry and concrete
Select the drill/impact action selector switch to the "hammer symbol" position. Tungsten carbide drill bits should always be used for drilling masonry, concrete etc with a high speed.
2. Drilling steel
Select the drill/impact action selector switch to the "drill symbol" position. HSS drill bits should always be used for drilling steel with a lower speed.
3. Pilot holes
When drilling a large hole in tough material (i.e. steel), we recommend drilling a small pilot hole first before using a large drill bit.
4. Drilling tiles
Select the drill/impact action selector switch to the "drill symbol" position to drill the tile. When tile has been penetrated, switch over to "hammer symbol" position.
5. Cool the motor
If your power tool becomes too hot, set the speed to maximum and run no load for 2-3 minutes to cool the motor.


F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MAINTENANCE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

Your power tool requires no additional lubrication or maintenance.

There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

TROUBLESHOOTING

1. If your power tool does not start, check the plug on the power supply first.
2. If the drill doesn't work properly, check the drill bit for sharpness, replace drill bit if worn. Check that the drill is set to forward rotation for normal use.
3. If a fault can not be rectified, return the tool to an authorized dealer for repair.

ENVIRONMENTAL PROTECTION

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.

PLUG REPLACEMENT (UK & IRELAND ONLY)

If you need to replace the fitted plug then follow the instructions below.

IMPORTANT

The wires in the mains lead are colored in accordance with the following code:

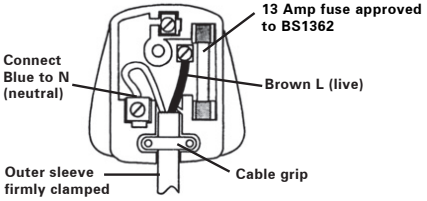
BLUE =NEUTRAL

BROWN = LIVE

As the colors of the wires in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows. The wire which is colored blue must be connected to the terminal which is marked with N. The wire which is colored brown must be connected to the terminal which is marked with L.

WARNING: Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved 13ABS1363/A plug and the correct rated fuse.

NOTE: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.



DECLARATION OF CONFORMITY

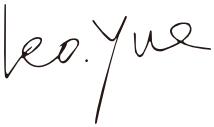
We,
Positec Power Tools (Europe) Ltd, PO Box 152,
Leeds, LS10 9DS, UK

Declare that the product,
Description **WORX Impact drill**
Type **WX312 WX312.1 WX313**
(300-329-designation of machinery, representative of impact drill)
Function **Boring holes in various materials**

Complies with the following Directives,
Machinery Directive **2006/42/EC**
Electromagnetic Compatibility Directive **2004/108/EC**
RoHS Directive **2011/65/EU**

Standards conform to:
EN 55014-1
EN 55014-2
EN 61000-3-2
EN 61000-3-3
EN 60745-1
EN 60745-2-1

The person authorized to compile the technical file,
Name: Russell Nicholson
Address: Positec Power Tools (Europe) Ltd, PO Box 152, Leeds, LS10 9DS, UK



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2012/11/22
Leo Yue
POSITEC Quality Manager

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