



说明书材质要求：105g 有光铜版纸	说明书成品尺寸：105*143mm
Black（单色印刷）	
折叠方式：风琴折（20P以下用风琴折）	备注：
特别注意：此页内容不印刷	

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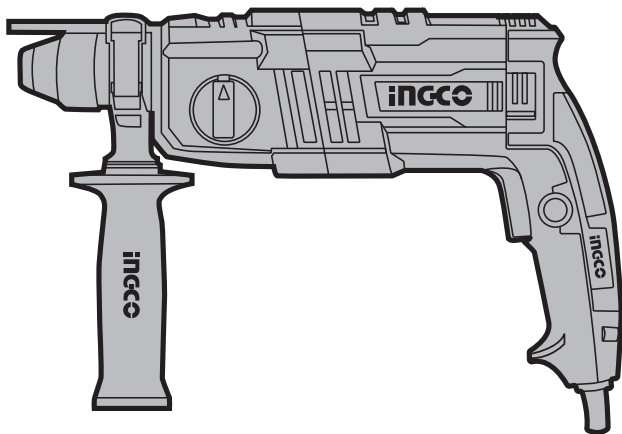
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	版本号	日期	设计师

INGCO

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**PRODUCT
MANUAL**

ROTARY HAMMER



RGH6528 URGH6528

RGH6528xy URGH6528xy

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

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

- 1) **Wear ear protectors.** Exposure to noise can cause hearing loss.
- 2) **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
- 3) **Hold the tool by the insulated gripping surfaces when performing operations where the application tool or the screw could contact hidden wiring or its own power cord.** Contact with a “live” wire will also make exposed metal parts of the power tool “live” and shock the operator.
- 4) **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- 5) **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- 6) **Secure the work piece.** A work piece clamped with clamping devices or in a vice is held more secure than by hand.
- 7) **Always wait until the machine has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.

Safety clutch

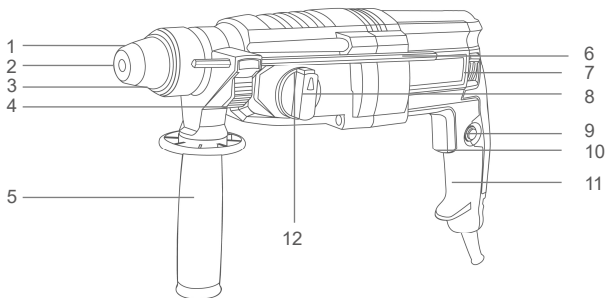
If the tool insert becomes caught or jammed, the drive to the drill spindle is interrupted. Because of the forces that occur, always hold the power tool firmly with both hands and provide for a secure stance.

If the power tool jams, switch the machine off and loosen the tool insert. When switching the machine on with the drilling tool jammed, high reaction torques can occur.

INTENDED USE

The machine is intended for hammer drilling in concrete, brick and stone, as well as for light chiseling work. It is also suitable for drilling without impact in wood, metal, ceramic and plastic. Machines with electronic control and right/left rotation are also suitable for screw driving.

SPECIFICATIONS



Components

- | | |
|-------------------------------------|---|
| 1. Tool holder | 7. Rotational direction switch |
| 2. Dust protection cap | 8. Mode selector switch |
| 3. Locking sleeve | 9. Lock-on button for ON/OFF switch |
| 4. Button for depth stop adjustment | 10. ON/OFF switch |
| 5. Auxiliary handle | 11. Handle |
| 6. Depth stop | 12. Release button for mode selector switch |

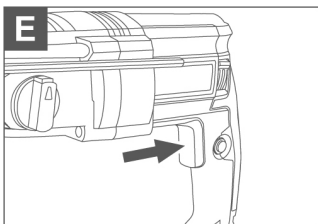
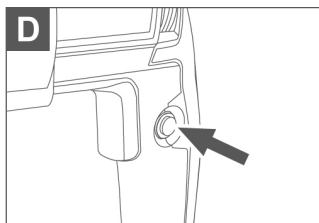
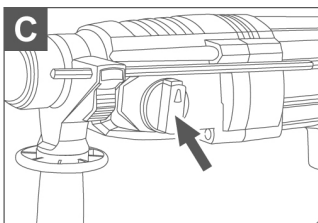
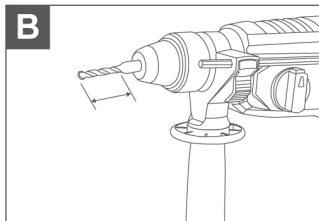
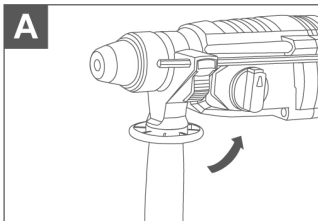
Technical specifications

Model No.		RGH6528 RGH6528-6 (ISRAEL Plug) RGH6528-8 (BS Plug) RGH6528M RGH6528-4 (IRAM Plug) RGH6528-3 (BS Plug) RGH6528-7 (CHILE Plug)	RGH6528-9 (INMENTRO Plug)	URGH6528	URGH6528-9 (INMENTRO Plug)
Rated voltage		230V ~50/60Hz	230V ~60Hz	110-120V~ 50/60Hz	127V ~60Hz
Rated input power		650W	650W	650W	650W
No-load speed		0-1700/min	0-1700/min	0-1700/min	0-1700/min
Impact rate		0-5500/min	0-5500/min	0-5500/min	0-5500/min
Drilling capacit y	Concrete	22mm	22mm	7/8"	7/8"
	Steel	13mm	13mm	1/2"	1/2"
	Wood	25mm	25mm	1"	1"

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.

OPERATION PICTURE



FUNCTION DESCRIPTION

⚠ CAUTION! Before any work on the machine itself, pull the mains plug.

Auxiliary handle (see Figure A)

Operate your machine only with the auxiliary handle.

Changing the position of the auxiliary handle

The auxiliary handle can be set to any position for a secure and low-fatigue working posture.

Turn the bottom part of the auxiliary handle in counter- clockwise direction and swivel the auxiliary handle to the desired position. Then retighten the bottom part of the auxiliary handle by turning in clockwise direction.

Pay attention that the clamping band of the auxiliary handle is positioned in the groove on the housing as intended for.

Adjusting the drilling depth (see Figure B)

The required drilling depth can be set with the depth stop.

Press the button for the depth stop adjustment and insert the depth stop into the auxiliary handle.

The knurled surface of the depth stop must face downward.

Insert the drilling tool to the stop into the tool holder. Otherwise, the movability of the drilling tool can lead to incorrect adjustment of the drilling depth.

Pull out the depth stop until the distance between the tip of the drill bit and the tip of the depth stop correspond with the desired drilling depth.

OPERATION

⚠ CAUTION!

Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine.

Setting the operating mode (see Figure C)

With the mode selector switch. The operating mode of the machine is selected.

To change the operating mode, press the release button and turn the mode selector switch to the desired position until it can be heard to latch.

NOTE: Change the operating mode only when the machine is switched off!

Otherwise, the machine can be damaged.



Position for hammer drilling in concrete or stone



Position for drilling without impact in wood, metal, ceramic and plastic as well as for screw driving



Vario-Lock position for adjustment of the chiseling position
The mode selector switch 8 does not latch in this position



Position for chiseling

Reversing the rotational direction

The rotational direction switch is used to reverse the rotational direction of the machine. However, this is not possible with the ON/OFF switch actuated.

Right rotation: Turn the rotational direction switch on both sides to the stop in the position.

Left rotation: Turn the rotational direction switch on both sides to the stop in the position.

Set the direction of rotation for hammer drilling, drilling and chiseling always to right rotation.

Switching ON/OFF (see Figure D)

To start the machine, press the ON/OFF switch.

To lock the ON/OFF switch, keep it pressed and additionally push the lock-on button.

To switch off the machine, release the ON/OFF switch. When the On/Off switch is locked, press it first and then release it.

Setting the speed/Impact rate (see Figure E)

The speed/impact rate of the switched-on power tool can be variably adjusted, depending on how far the ON/OFF switch is pressed.

Light pressure on the ON/OFF switch results in low speed/impact rate. Further

pressure on the switch increases the speed/impact rate.

Working advice

⚠ CAUTION!

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

Changing the chiseling position (Vario-Lock)

The chisel can be locked in 36 positions. In this manner, the optimum working position can be set for each application.

Insert the chisel into the tool holder.

Turn the mode selector switch (8) to the "Vario-Lock" position (see "Setting the Operating Mode").

Turn the tool holder to the desired chiseling position.

Turn the mode selector switch (8) to the "chiseling" position. The tool holder is now locked.

For chiseling, set the rotation direction to right rotation.

Maintenance and Cleaning

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

For safe and proper working, always keep the machine and ventilation slots clean.

A damaged dust protection cap should be changed immediately. We recommend having this carried out by an after-sales service.

Clean the tool holder 1 each time after using.

MAINTENANCE&MALFUNCTIONS

Possible malfunctions and methods of their eliminations

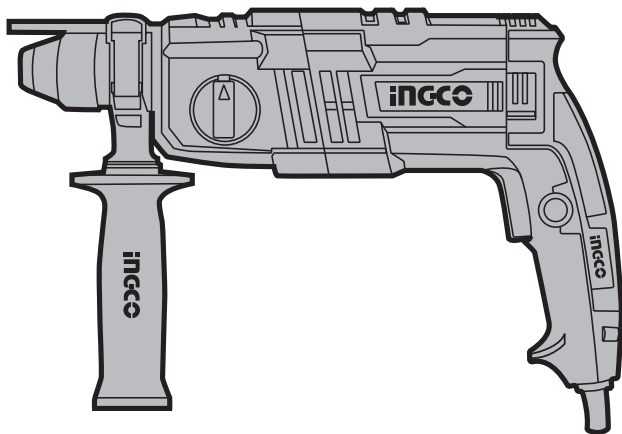
Malfunction	Probable causes	Actions
When the machine is turned on, the electric motor does not work.	● Switch failure ● The power cord or wiring is broken, power cord plug malfunction; ● No brush contact with the collector; ● Wear/damage of brushes	Disconnect the machine from the mains and contact a 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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