



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：酒联中黄（防晒）2000g 酒联金红（防晒）225g 2.C色油墨：酒联天蓝墨 3.M色油墨：酒联金红墨 4.Y色油墨：pantone123C专色油墨 5.K色油墨：酒联黑墨	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（ 200以下用风琴折 ）	备注：

特别注意：此页内容不印刷

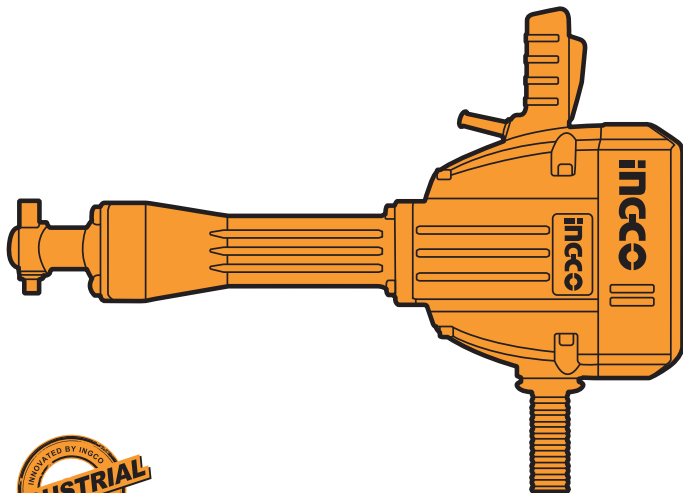
更改记录	1.增加噪音值 封面封底换彩色			更新公司名、地址			新增PDB22001—9， 参数改为220—240V/60HZ		
	0525.V12	2025.5.30	yola	1223.V10	2023.12.7	SQY	0324.V11	2024.3.22	LY
	版本号	日期	设计师	版本号	日期	设计师	版本号	日期	设计师

INGCO

www.ingco.com

PRODUCT MANUAL

DEMOLITION BREAKER



PDB22001 UPDB22001
PDB22001xy UPDB22001xy
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

Demolition breaker safety warnings

Safety instructions for all operations

- a) **Wear ear protectors.** *Exposure to noise can cause hearing loss.*
- b) **Use auxiliary handle(s), if supplied with the tool.** *Loss of control can cause personal injury.*
- c) **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting 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 could give the operator an electric shock.*

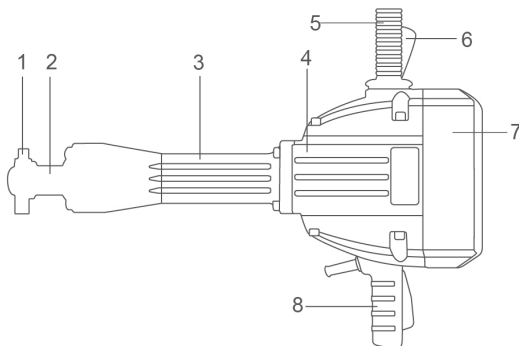
Additional safety Instructions

- a) **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.*
- b) **Always wait until the power tool has come to a complete stop before placing it down.** *The application tool can jam and cause you to lose control of the power tool.*
- c) **Do not touch any application tools or adjacent housing components shortly after operation.** *These can become very hot during operation and cause burns.*
- d) **Take care when carrying out demolition work using the chisel.** *Falling fragments of the demolition material could injure you or any bystanders.*
- e) **Hold the power tool firmly with both hands and make sure you have a stable footing.** *The power tool can be more securely guided with both hands.*

INTENDED USE

The power tool is intended for chiseling work in concrete, brick, stone and asphalt, as well as for driving in and com-pressing with the appropriate accessories.

SPECIFICATIONS



Components

- | | |
|------------------|----------------|
| 1. Retainer | 5. Handle |
| 2. Front cover | 6. Switch |
| 3. Aluminum head | 7. Cover |
| 4. Housing | 8. Side handle |

Accessories

1. Hex key 12mm (for M14) 1 pcs
2. Hex key 8mm (for M10) 1 pcs
3. Hex key 6mm (for M8) 1 pcs
4. Hex key 5mm (for M6) 1 pcs
5. Oil tank cover wrench 1 pcs
6. Bottle of grease (30g) 2 pcs
7. Point chisel (28*530mm) 1 pcs
8. Flat chisel (28*530mm) 1 pcs
9. Carbon brush 1 set

Technical specifications

Mode No.	PDB22001 PDB22001xy	PDB22001-9
Voltage	AC220-240V~50/60Hz	AC220-240V~60Hz
Input power	2200W	2200W
Impact rate	950/min	950/min
Impact energy	75J	75J
Chisel holder	HEX chuck	HEX chuck
Weight	30kg	30kg
Protection class	□ / II	□ / II

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

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

Mode No.	UPDB22001 UPDB22001xy	UPDB22001-9
Voltage	AC110-120V~50/60Hz	AC127V~60Hz
Input power	2200W	2200W
Impact rate	950/min	950/min
Impact energy	75J	75J
Chisel holder	HEX chuck	HEX chuck
Weight	66.14lbs	66.14lbs
Protection class	□ / II	□ / II

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

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

Noise/Vibration information

The noise emission, measured in accordance with **EN62841-2-6**:

Sound pressure level	L_{pA}	84 dB (A)	K=3 dB
Sound power level	L_{wA}	103.47 dB (A)	K=2.13 dB

Wear hearing protection!



Guaranteed sound power level L_{wA} in dB

The vibration total value and its uncertainty determined according to **EN62841-2-6**:

Chiselling:

Vibration emission value (main handle)	$a_{h\ CH}$	19.12 m/s ²
Vibration emission value (auxiliary handle)	$a_{h\ CH}$	15.74 m/s ²
Uncertainty	K	1,5 m/s ²

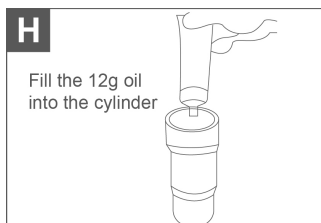
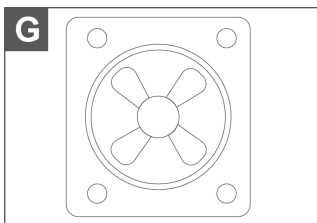
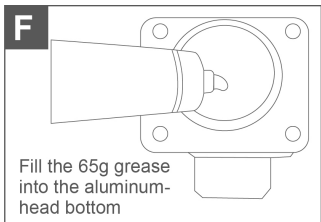
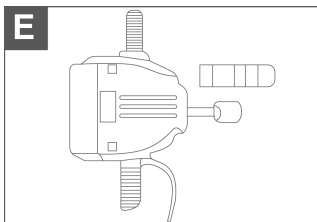
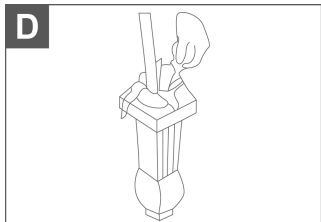
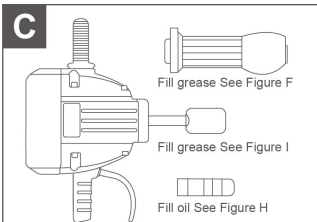
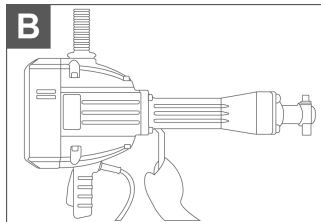
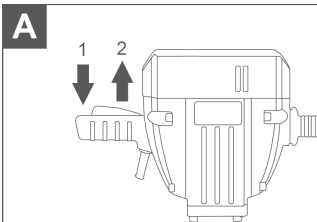
That the declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.

That the declared vibration total value may also be used in a preliminary assessment of exposure.

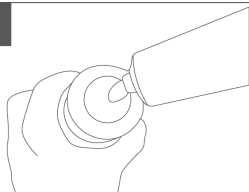
WARNING!

- That the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used;
- Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

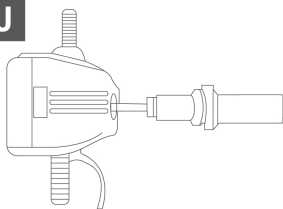
OPERATION PICTURE



OPERATION PICTURE

I

Fill the 5g grease into the piston

J

FUNCTION DESCRIPTION

Prior to operation

Power source

Ensure that the power source to be utilized conforms to the power requirements which specified on the name plate of the hammer.

Power switch

Ensure that the power switch is in the position of OFF. If the plug is connected to power receptacle while the power switch is in ON position, the demolition hammer will start operation immediately, which can cause serious accident!

Extension cord

When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

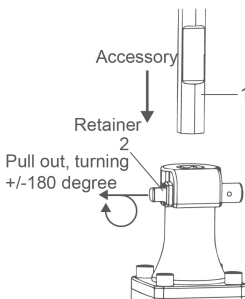
Mounting tool bits

WARNING!

Before do it, make sure unplug the machine!

Pull out of the retainer (2), turning 180° clockwise or anticlockwise, insert the accessory shank portion (1) into the hole on the front cover.

Turning the retainer back into original position.



1. Accessory
2. Pull out, turning +/-180 degree

NOTE: When you removing the accessory, follow above procedure in reverse order.

Switch operation (see Figure A)

Figure A: 1. Switch On 2. Switch Off

Switch On: Press the switch towards 1 direction

Switch Off: Release the switch towards 2 directions

Operate this demolition hammer by utilizing outside force. The performance will be better if it is pressed with properly force against the work surface.

NOTE: Sometimes the power tool does not begin the striking the stroke even the motor keeps running, because oil inside become thick. If the power tool is used at a low temperature, or it is used after a long idle time, this demolition hammer should be kept running for above 5 minutes to warm up.

MAINTENANCE

WARNING!

Before do any maintenance, ensure unplug the plug.

Grease and oil filling

Demolition hammer mechanical part is easy to get worn and lose impact energy if without enough lubrication, recommend filling grease and oil after 6 months usage.

The steps as follows:

- a) Loosen the 4 screws between aluminum head and gear box by 12mm HEX head wrench. **(see Figure B)**
- b) Disassemble the aluminum head, cylinder and piston. **(see Figure C)**
- c) Clean the inside of aluminum head, must be free of metal chip and granular dust **(see Figure D)**
- d) Clean the piston and cylinder. **(see Figure E)**
 - Clean the cylinder both inside and outside, especially clean the inside of cylinder, must be free of metal chip and granular dust. If the conditional, recommend washing by gasoline.
 - Clean the surface of piston. If the conditional, recommend disassembling the O-ring and washing the piston by gasoline.
 - At the same time, check the wearing condition of O-ring. If the outside diameter (O.D.) of O-ring is less than the piston O.D., please replace the O-ring to get proper performance.
- e) Fill the grease into the aluminum head, please make sure cleaned inside

before filling.

- Recommend the grease from manufacturer site, there is a tube of 2*30g grease included the case.

NOTE: Please fill the 65g grease into the aluminum head bottom (see Figure F~G)

- f) Fill the 12g oil in the cylinder; please make sure it is clean before filling. **(see Figure H)**
- g) Fill the 5g grease into the piston. please make sure it is clean before filling. **(see Figure I)**
- h) Assemble back **(see Figure J)**
 - Assemble the piston into cylinder, please make sure if the O-ring has been assembled.
 - Assemble the cylinder into aluminum head.
 - Tighten the 4 inner HEX head screws; be careful of no missing spring washer. If tighten the screws by electrical or pneumatic driver, please check the torque of screw by 12mm wrench to make sure tightening properly.
 - If the conditional, can put glue on the screw and then screw in (repeat the step above)

Suggestion: All above operations to be carried out by our authorized service agent.

Maintenance and inspection

Before do any maintenance, ensure unplug the plug.

Inspecting the demolition hammer

Use a dull accessory, such as bull point, cutter, etc., will cause motor malfunction and efficiency degraded. Replace with a new one when your accessory is abased.

Inspecting the mounting screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Any loose should be tighten immediately, failure to do maybe cause serious hazard.

Inspecting the bit retainer

The retainer may become loose due to excessive use. Make sure the bit shank position is hold securely, if any wear or damage is found, ask the authorized service people to maintenance.

Maintenance the motor

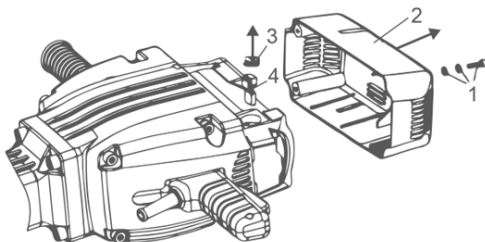
The motor is the heart of the machine, please avoid any damage to the winding, or

any water and oil to wet it.

Carbon brush replacements

Carbon brushes are consumable parts, when it becomes worn or "limit worn" it can cause motor trouble, we use auto-stop carbon brush, it stopped automatically when carbon brush worn out, at that time, replace a new couple of them as we offered.

Replace the carbon brush as the order of dismantle parts 1,2,3..., after that assembly in reverse order



1. $\phi 6$ plat washer Hexagon socket Bolt M6x20
2. Fan cover
3. The cover of carbon bush holder
4. Carbon brush

Remark: after carbon brush replacement, please make sure all of the screws are tightened enough!

Cleaning

Clean the machine regularly with a soft cloth, preferably after each use. Solvent such as gasoline, thinner, alcohol etc. These kinds of chemical materials are not allowed to use, water or soap are recommended!

Environment

Faulty and /or discarded electrical or electronic apparatus have to be collected at the appropriate recycling location

MAINTENANCE&MALFUNCTIONS

Possible malfunctions and methods of their eliminations

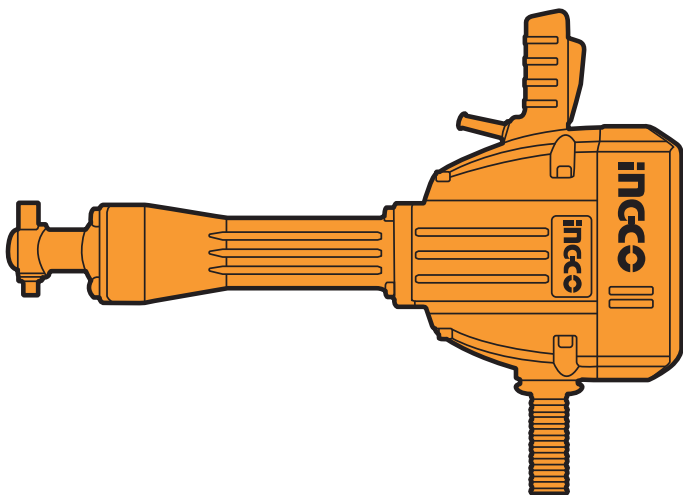
Malfunction	Probable causes	Actions
When the machine is turned on, the electric motor does not work.	● Switch failure ● The power cord or wiring is broken, power cord plug malfunction; ● No brush contact with the collector; ● Wear/damage of brushes	Disconnect the machine from the mains and contact a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



MADE IN CHINA 0525.V12

NEUWAY TECHNOLOGY (SUZHOU) CO., LIMITED

f y i INGCO Global

www.ingco.com

No. 20 Dagang Road, Fuqiao Town, Taicang City, China