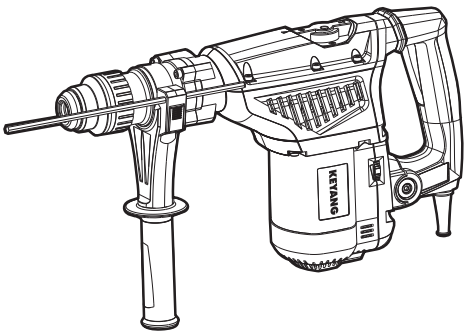
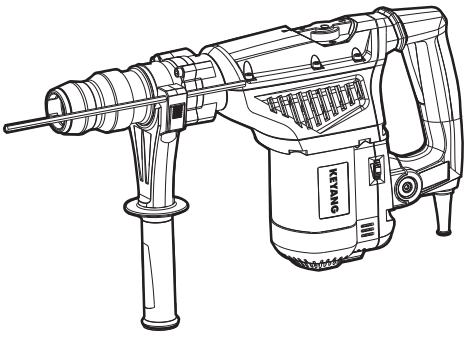
ELECTRIC HAMMER DRILL

HD42-7DM(Max) ⧈
HD42-7D(Hex) ⧈ CE



HD42-7DM(Max)



HD42-7D(Hex)

KEYANG ELECTRIC MACHINERY CO., LTD.

KEYANG

ORIGINAL INSTRUCTIONS **EN**

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

www.keyang.com

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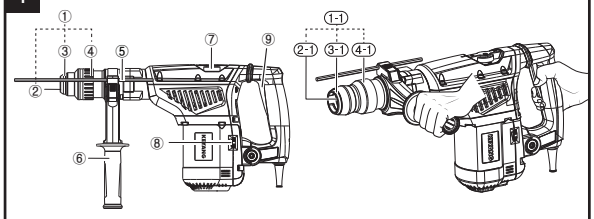

HD42-7DM(Max) HD42-7D(Hex)

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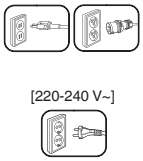

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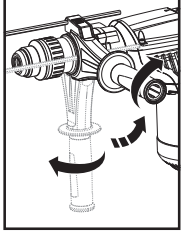

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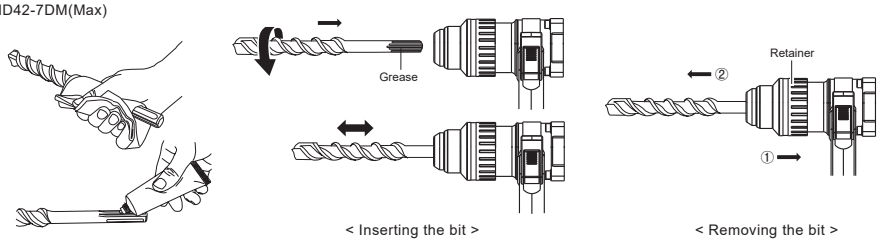

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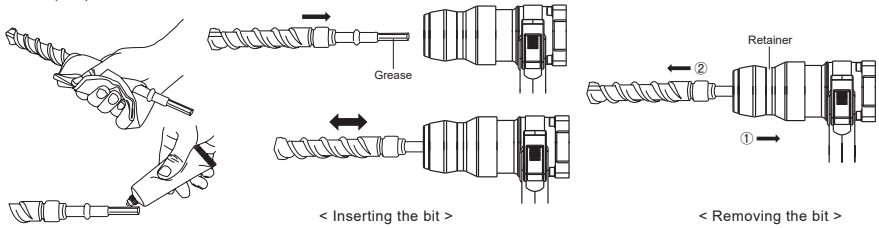

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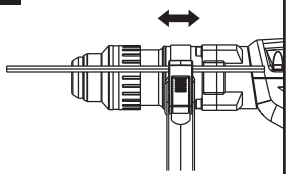

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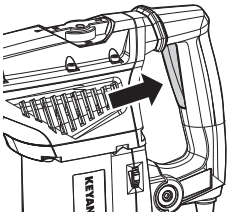

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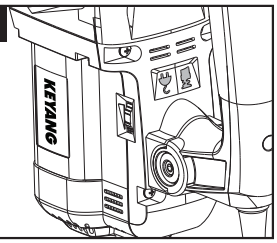

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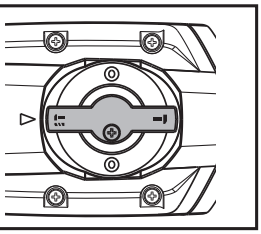

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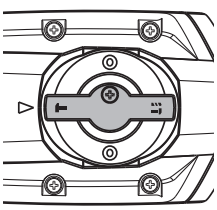

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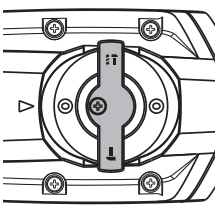

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ELECTRIC HAMMER DRILL

Original instructions

It is essential that instruction manual is read before the power tool is operated for the first time.
Always keeps this instruction manual together with the power tool. Ensure that the instruction manual is with the power tool when it is given to other persons.

Table of Contents

Note

As our engineers are striving for the constant research and development to develop the quality of products, shape or structure of our model can be changed without previous notice.

1. 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 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

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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.

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 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.

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.

2. Hammer Safety Warnings

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 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.

4) Wear dust mask.

5) Use appropriate 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.

6) Switch off the power tool immediately when the tool insert jams. Be prepared for high

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reaction torque that can cause kickback.
The tool insert jams when :
- the power tool is subject to overload or
- it becomes wedged in the workpiece.

7) 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.

8) Secure the workpiece.
A workpiece clamped with clamping devices or in a vice is held more secure than by hand.

9) 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.

10) The use of any accessory or attachment, other than those recommended in the instruction manual, may present a risk of personal injury.

3. Additional Safety Warnings

1) Do not insert wires or other similar objects into the ventilation slots.
You can be killed by an electric shock or injured seriously.

2) Accessories may be hot after prolonged use.
When removing the bit from the tool avoid contact with skin and use proper protective gloves when grasping the bit or accessory.

3) 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) 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.

4. Check before Use

1) Connection to Power Supply

(See figure 2)

2) Extension Cord

110-127 V~		220-240 V~	
Nominal cross section of conductor	Max. length	Nominal cross section of conductor	Max. length
0.75 mm^2 1.0 mm^2 1.5 mm^2	15 m 20 m 30 m	0.75 mm^2 1.0 mm^2 1.5 mm^2	30 m 40 m 60 m

Use an extension cord if the distance to the power source requires its use. Extension cord must be of appropriate thickness and length for the supply of electric current. Too thin or too long cord will cause voltage to drop reducing the motor power. Use it as short as possible.

3) The Switch

Warning When you plug in the power supply with the tool switched on, sudden rotation of tool may result in accident.

Check to see that switch lever returns to its original position after pulling or pushing it.

4) The Power Source

Observe correct main voltage. The voltage of power source must agree with the voltage specified in the name plate.

Warning When you use the tool for 110-127V~ in 220V-240V~ the speed of the motor will be increased abnormally. In result, the drill bit and the tool may be damaged or motor can be damaged by a fire.

5) Mains Outlet

When inserting the plug, if a sound is heard or if it a taken out easily you must repair it. Please contact nearby electric shop.
When you use the mains outlet as it is, it causes the accident by overheating.

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6) Trial run

Before starting the work, wear protection (goggles, safety helmet, ear plugs, protective gloves) and run the tool in the direction avoiding other persons to see if the tool is operated normally.

7) Work place

Check work place considering cautions.
Prevent dust accumulation at the workplace. Dusts can easily ignite.
Dusts from materials such lead-containing coatings, minerals and metal can be harmful to one's health. Contact with or inhaling the dusts can trigger allergic reactions to the operator or bystanders and/ or lead to respiratory infections.
Certain metal dusts are considered hazardous, especially in conjunction with alloys such as zinc, aluminum or chromium.
Materials containing asbestos may only be worked by specialists.
Provide for good ventilation of the working place.
It is recommended to wear a P2 filter-class respirator.
Observe the relevant regulations in your country for the materials to be worked.

	Please read the instruction manual before use
	Wear safety helmet
	Wear goggles
	Wear ear plugs
	Using a mask
	Wear protective gloves
	Do not dispose of batteries with general refuse
	Return waste material
	Class II appliance
	Indoor use

V	Volt	n_0	No load Speed
A	Amperes	Hz	Hertz
W	Watts	/min	Revolutions or reciprocations per minute
~	Alternating current		Class II construction

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EC Declaration of conformity

We declares that these products meet the standards EN62841-1, EN62841-2-6, EN55014-1, EN55014-2, EN61000-3-2 and EN61000-3-3, EN50581 in compliance with directives 2006/42/EC, 2014/30/EU, 2011/65/EU

Seung Yeol, Lee
Plant Manager

Mr. Willem van den Crommenacker
KEM Europe BV C.E.O
KEM Europe BV
Hoogstraat 9, 5469 EL Erp, Netherland

5. Noise and Vibration Emissions

1) Noise emission

Noise emission values determined according to EN 62841

Power Tool	HD42-7DM	HD42-7D
A-weighted emission sound power level (L_{WA}) [dB(A)]	104	
A-weighted emission sound pressure level (L_{pA}) [dB(A)]	93	
Uncertainty (K) [dB(A)]	3	

2) The operator to wear hearing protection

3) Vibration emission

Vibration total values(triaxial vector sum) determined according to EN 62841

Power Tool		HD42-7DM	HD42-7D
Chiselling Hammer Mode	Vibration emission value (a_h) [m/s^2]	11	
	Uncertainty (K) [m/s^2]	1.5	
Hammer Drilling Mode	Vibration emission value (a_h) [m/s^2]	14.5	
	Uncertainty (K) [m/s^2]	1.5	

4) The following information

a) The declared vibration total value has been measured in accordance with a standard test method given in EN 62841 and may be used for comparing one tool with another.

b) The declared vibration total value may also be used in a preliminary assessment of exposure.

5) A warning

a) 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.

b) Identify additional 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).

6. Specifications and List of Contents

1) Specifications

Model		Unit	HD42-7DM	HD42-7D
Rated input		W	1350	
Rated voltage & Frequency		V	AC 220-240 V ~, 50/60 Hz	
no load speed		r/min	150-520	
Impact rate at rated speed		/min	1020-3000	
Single impact energy		J	13	
Weight (EPTA procedure 01/2003)		kg	7.5	
Drilling diameter (max Ømm)	Concrete	mm	42	
Protection Class		-	Class II	
Tool holder system		-	SDS-MAX	SDS-HEX
Operating Mode		-	Hammer Drill / Hammer	

2) List of Contents

Product	HD42-7DM	HD42-7D
Plastic box	1 EA	1 EA
Side handle	1 SET	1 SET
Stopper	1 EA	1 EA
Instruction manual	1 EA	1 EA
Grease(Only bits)	1 EA	1 EA

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7. Description of Functions and Applications

1) Description Function

(See figure 1)

- HD42-7DM	- HD42-7D
① SDS-max chuck	(1-1) SDS-hex chuck
② Tool holder	(2-1) Tool holder
③ Dust protection cap	(3-1) Dust protection cap
④ Locking sleeve	(4-1) Locking sleeve

⑤ Depth stopper

⑥ Auxiliary handle

⑦ Operational mode selection switch

⑧ Variable speed dial wheel

⑨ On/Off switch

8. Assembly

1) Rotating the Side Handle and Adjusting Stopper

Warning

In case an operation of drilling into concrete and stone is carried out, be sure to attach the side handle for safety before starting operation.

For convenience in operation, assemble the side handle at the front of tool and perform.

(See figure 3)

a) Rotating the Side Handle

- Turn the side handle counterclockwise to unfasten the band and band holder.
- Turn the side handle to a desired position.
- Turn the side handle clockwise to completely fixed.

(See figure 6)

b) Adjusting Stopper Position

- Press the button of stopper holder and insert the stopper into the band holder.
- The knurled surface of the stopper must face on one side.
- Make adjustment such to let the stopper move into desired position. (When stopper is used, boring to the extent as clearance between the drill bit and stopper is available.)
  Left-hander should assemble the side handle in reverse direction and position before starting operation.

2) Attaching and Detaching Tool Bit

Warning

Be sure to wear protective gloves for changing hot tool bit during operation.
Be sure to put off the switch and unplug power cord before attaching or detaching a tool bit.

Take care that the dust protection cap is not damaged when changing tools.

a) SDS-max bit(HD42-7DM)

(See figure 4)

The SDS-max tool is designed to be freely movable. This causes eccentricity when the machine is offload. However, the drill automatically centres itself during operation. This does not affect drilling precision.
Do not use tools without SDS-max for hammer drilling or chiselling.

- Inserting

Clean lightly the tool before inserting.
Clean the bit shank and apply grease before inserting the bit.
Insert the dust-free tool into the tool holder with twisting until it latches.
The tool locks itself. Check the locking by pulling on the tool.
After installing, always make sure that the bit is securely held in place by trying to pull it out.

- Removing

Pull the locking sleeve to the rear ① and hold while removing the tool ②.

b) SDS-hex bit (HD42-7D)

(See figure 5)

- Inserting
  Clean lightly the tool before inserting.
  Clean the bit shank and apply grease before inserting the bit.
  Pull the locking sleeve to the rear ① and hold while mounting the tool ②.
  After installing, always make sure that the bit is securely held in place by trying to pull it out.
- Removing
  Pull the locking sleeve to the rear ① and hold while removing the tool ②.

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9. Operating Instructions

1) Putting into Operation

(See figure 7)

Switching on: Press the on- off switch ⑨.
Switching off: Release the on- off switch ⑨.

2) Adjusting RPM

(See figure 8)

a) Turn the dial to adjust the speed.
- Turning the dial ⑧ down results in low speed rate.
- Turning the dial ⑧ up results in high speed rate.

3) Safety Clutch

The safety clutch will actuate when a certain torque level is reached. The motor will disengaged from the output shaft. When this happens, the bit will stop turning. The feature prevents the gearing and motor form stalling.

Warning As soon as the safety clutch actuates, switch off the tool immediately.

4) Operating Mode

The operating mode of the tool is selected with the selector switch ⑦.

Warning When switching operation modes, Please trigger ON/OFF switch slightly.

In hammer drilling mode, the tool simultaneously rotates and impact the work. This mode is appropriate for all concrete and masonry operations.
In the hammering-only mode, the tool only impacts the work without rotating. This mode is appropriate for light chipping, chiseling and demolition applications.

a) Hammer drill mode

(See figure 9)

Turn the mode selector switch ⑦ to

b) Chisel mode

(See figure 10)

Turn the mode selector switch ⑦ to the

c) Changing the chiselling position

(See figure 11)

The chisel can be locked in 12 positions. In this manner, the optimum working position can be set for each application. Insert the chisel into the tool holder, switch the mode selector ⑦ to below mode, adjust the chiseling position to your desired angle, then switch to chisel mode to apply.

5) Indicator LED

(See figure 8)

The green power-ON indicator LED lights up when the tool is plugged. If indicator led does not light up, the mains cord or the controller may be detective.
The red service indicator LED lights up when the carbon brushes are worn out to indicate that the tool needs servicing.
After approximately 8 hours of use, the motor will automatically be shut off.

10. Maintenance and Servicing

Warning Disconnect the plug from the power supply before making any maintenance.

1) Checking the Tool (bit)

Using the worn-off bit will cause overloading the motor and reduce work efficiency. Either sharpen the tool or replace with a new one.

2) Checking the Screws

Check if any screw is loosened. Loosened screw must be tightened firmly.

3) Grease

For remarkably decrease of the drill speed, check grease and change it, if necessary. Only grease for the hammer drill recommended by authorized Keyang Service Center should be used.

4) Carbon Brush

Disposable carbon brush is used in the motor. Heavily worn carbon brush may result in motor failure. Replace the worn carbon brush with new one.

5) Storing after Use

Warning Store the tool in a dry place out of reach of the children.

6) X attachment cord

If the supply cord of this power tool is damaged, it must be replaced by a specially prepared cord available through the service organization.

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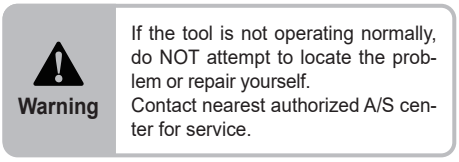
7) Cleaning

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

8) Repair



9) After-sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts.
Exploded views and information on spare parts can also be found under :
www.keyang.com
Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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MEMO

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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