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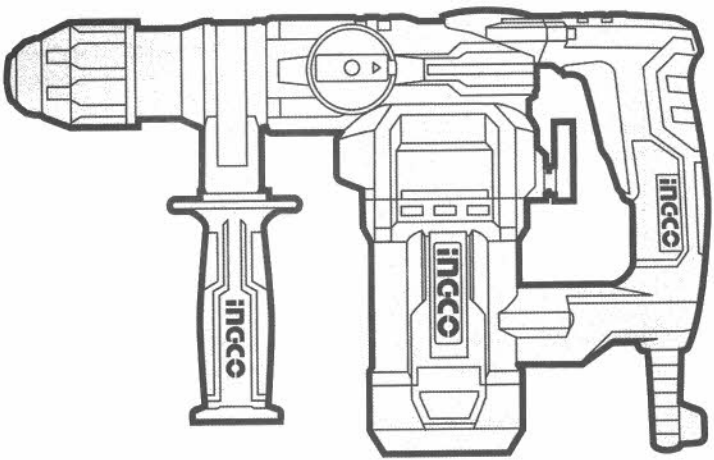
PRODUCT MANUAL

ROTARY HAMMER



RH10506, URH10506, RH10506M, RH10506S
RH10506-3, RH10506-8, RH10506-4
RH10506-6, RH10506-9, URH10506-9

SCAN FOR VIDEO

Original Instructions

GENERAL SAFETY WARNINGS

⚠ Warning!

Work area safety

a) **Keep work area clean and well lit. Cluttered and 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. Distractions can control.**

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.

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 energizing 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.** Always keep proper footing and balance. 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.

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 tools 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, considering 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) **Have your power tool serviced by a qualified repair person using only identical.** This will ensure that the safety of the power tool is maintained.

Service

a) **Have your power tool serviced by a qualified repair person using only identical.** This will ensure that the safety of the power tool is maintained.

THE SYMBOLS IN INSTRUCTION MANUAL

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.

SAFETY WARNING ON USING

Safety instructions for all operations

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 power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring or its own cord.** Cutting accessory or fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

Safety instructions when using long drill bits with rotary hammers

4. **Always start drilling at low speed and with the bit tip in contact with the workpiece.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
5. **Apply pressure only in direct line with the bit and do not apply excessive pressure.** Bits can bend, causing breakage or loss of control, resulting in personal injury.

Additional safety information

1. **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.
2. **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.
3. **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
4. **Do not touch any application tools or adjacent housing components shortly after operation.** These can become very hot during operation and cause burns.
5. **The application tool may jam during drilling. Make sure you have a stable footing and hold the power tool firmly with both hands.** Otherwise you could lose control of the power tool.

6. **Take care when carrying out demolition work using the chisel.** Falling fragments of the demolition material could injure you or any bystanders.
7. **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.

Product description and specifications

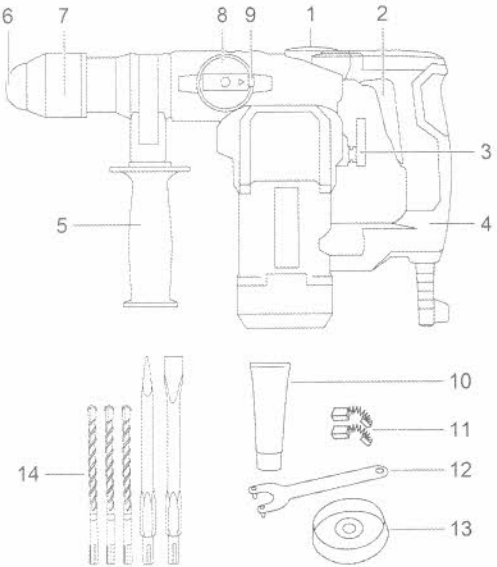
Read all the safety and general instructions.

Failure to observe the safety and general instructions may result in electric shock, fire and/or serious injury. Please observe the illustrations at the beginning of this operating manual.

INTENDED USE

The power tool 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.

SPECIFICATIONS



1. Grease cap
2. ON / OFF Switch
3. Switch for drilling /percussion drilling
4. Anti-vibration handle
5. Auxiliary handle:
6. Tool holder
7. Locking sleeve
8. Drilling/chiseling selection switch
9. Locking button for drilling/chiseling switch
10. 1pcs Grease
11. 1set Carbon brush(optional)
12. 1pcs Key for grease cap
13. Dust cap(optional)
14. Accessories

Accessories(optional, see your product specification):

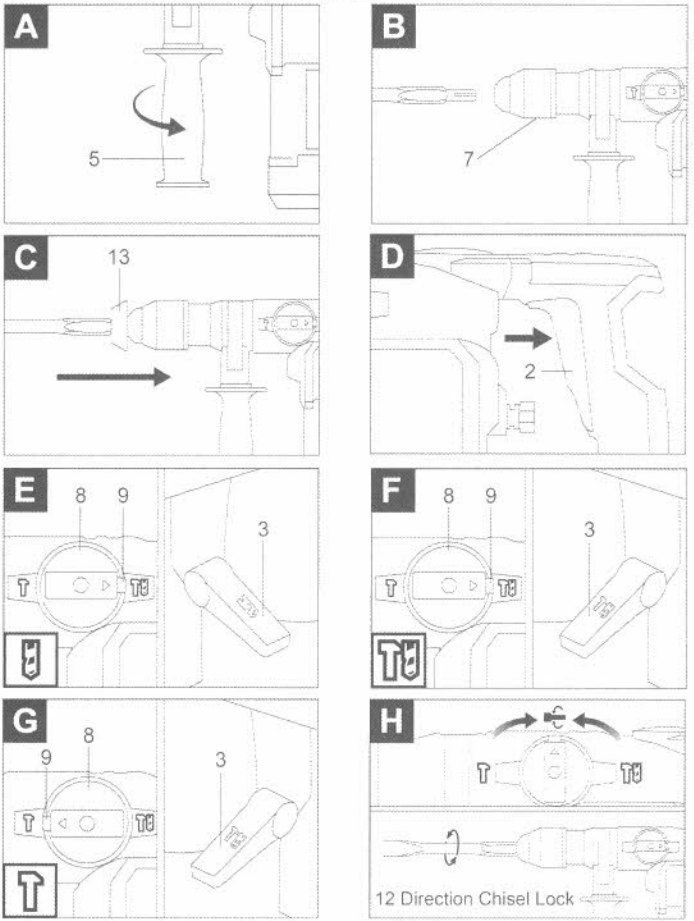
1. Pointed chisel 1pcs
2. Flat chisel 1pcs
3. Masonry drill bits 3 pcs

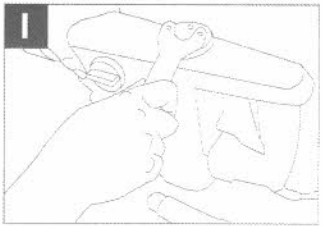
Technical specifications

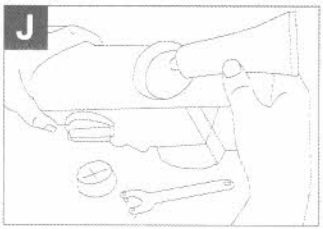
Mode No.	RH10506, RH10506M, RH10506S (SAA PLUG), RH10506-3, RH10506-8(BS Plug), RH10506-4 (IRAM Plug), RH10506-6 (ISRAEL Plug), RH10506-9 (INMENTRO Plug)	URH10506	URH10506-9 (INMENTRO Plug)
Rated voltage	220-240V~50/60Hz	110-120V~50/60Hz	127V~60Hz
Rated input power	1050W	1050W	1050W
No-load speed	1100/min	0-1100/min	0-1100/min
Impact rate	3800/min	0-4000/min	0-4000/min
Impact energy	4.5J	4.5J	4.5J
Max. drilling capacity			
Concrete	26mm	1"	1"
Steel	13mm	1/2"	1/2"
Wood	40mm	1-1/2"	1-1/2"

Guaranteed sound power level LWA in dB

OPERATION PICTURE







OPERATION

1.Fitting the auxiliary handle (see Dia A)

⚠ **Warning!**

Only use the drill with the auxiliary handle fitted. Loss of control over the machine can lead to injury.

The additional handle 5 provides you with additional grip when guiding the hammer drill.

a) Slide the additional handle with the round opening over the chuck on the clamping neck of the hammer drill.

b) Position the handle by rotating it around the clamping neck, so you can work comfortably.

c) Tighten the additional handle by rotating the lower part of the handle in clockwise direction.

d) To loosen the additional handle again, or to change the position, proceed in reverse order.

2.Inserting / removing the tools (see Dia B)

Note

Ensure that the tool shaft and the tool holder are free from dust and lightly grease the shaft using tool insert lubricant before inserting it into the chuck 10.This extends the lifetime of the chuck and the machine.

a) Slide the tool (chisel / drill) 14 into the tool holder 6 .

b) Turn the tool, if necessary in the tool holder until it audibly clicks into place. Check the locking mechanism by gently pulling the inserted tool.

c) To remove the tool, pull the locking sleeve 7 back as far as it goes and pull the tool out of the tool holder from the front.

3.Fit the dust cap (see Dia C)

⚠Caution!

Always use the supplied dust cup when drilling over head to prevent dust from entering the chuck.

a) Slide the dust cup 13 firmly onto the drill.

b) When using large diameter drills, the dust cup can be fitted to the drill shaft.

Function selection

⚠ Warning!

The selector switches may only be used when the motor has come to a complete standstill. Otherwise the inserted tool can turn unintentionally or cause damage to the machine.

⚠Caution!

The percussion drilling/chisel switch 8 must not be set to the position when the drilling/percussion drilling switch is set 3 to the position at the same time. The machine will not work with these settings.

Use the selector switches 8 and 3 to switch between drilling, hammer drilling and chiseling mode.

Drilling: (see Dia E)

1. Push the locking button for drilling/ chiseling switch 8 and turn the drilling/chiseling selection switch 9 into position until it engages.
2. Turn the drilling mode selector switch 3 into position .

Hammer drilling:

1. Push the locking button for drilling/ chiseling switch 8 and turn the drilling/chiseling selection switch 9 into position until it engages.
2. Turn the drilling mode selector switch 3 into position .

Chiseling:

1. Push the locking button for drilling/ chiseling switch 8 and turn the drilling/chiseling selection switch 9 into position until it engages.

2. Turn the drilling mode selector switch **3** into position .

Changing the Chiseling Position (Vario-Lock):

1. Vario-Lock position for adjustment of the chiseling position. Turn the mode selector switch 8 to .
2. Turn the chisel into the required position.
3. Then set the percussion drilling/ chisel switch back to the mark.

Switching on and off (see Dia D)

1. Press the On / Off switch 2.
2. Release the On / Off switch 2.

Drilling and chiseling

⚠ **Warning!**

Do not apply excessive force on the hammer drill. Excessive pressure may damage the drill, chisel or the hammer drill and increases the risk of accident. For this reason is it important to always grip the drill firmly with two hands and maintain a stable posture. The greater the diameter of the drill bit, the greater is the force on your arm.

Always secure your workpiece in a vice or in any other clamping device. Secure particularly large workpieces against sliding or support them properly.

Drilling

1. Choose a drill bit appropriate for the application and insert it into the tool as described in chapter 'Inserting the tools'.
2. Insert the drill bit properly at the desired location.
3. Press the On / Off switch 2 to start drilling.

Drilling with a keyed chuck (not included)

Note

Only work with the gear rim drill chuck (not included in the scope of delivery) when the percussion function is switched off.

With the toothed rim drill chuck (not included in the scope of delivery), the hammer drill can also be used for drilling in iron, non-ferrous metals, wood or plastic.

1. Insert the toothed rim drill chuck (not included in the scope of delivery) into the

tool holder (see chapter "Inserting the tool").
2. Choose a drill bit suitable for the machining and insert it into the keyed chuck.
3. Place the drill chuck key (not included in the scope of delivery) in one of the holes on the spider.
4. To tighten the chuck, turn the keyed chuck clockwise.
5. To loosen the chuck, turn the keyed chuck anti-clockwise.
6. Insert the drill bit properly at the desired location.
7. Press the On / Off switch 2 to start drilling.

Selecting the appropriate drill bit

For drilling concrete and stone	Carbide tipped masonry drill bit
For metal	HSS drill bit (not included)
For wood	Twist drill bits for wood (not included)

Chiseling

1. Choose a chisel appropriate for the material and insert it into the tool as described in chapter "Fitting and changing tools".
2. Position the chisel using the rotation stop position, if necessary, as described in "Function selection".
3. Insert the chisel properly at the desired location.
4. Press the On / Off switch 2 to start chiseling.

Maintenance

⚠ Warning!

Disconnect the mains plug before any adjustment, maintenance or repair.

Only use spare parts / accessories from the manufacturer or authorized and qualified workshops.

Repairs should only be carried out by qualified technicians or by an authorized service center. Qualified technicians must have relevant training and experience, be familiar with the design and construction requirements of the product and understand and follow the safety regulations.

Changing / Refilling grease (see Dia I)

The drill is completely airtight to prevent grease leaking and dust entering the machine. Refill grease after 30-40 operating hours or when the impact power

decreases.

1. Open the grease cap 1 with the supplied key for grease cap 12 .
2. Refill with the supplied grease and close the cover in reverse order. Refill with gear grease for central lubrication.
3. Spray a small amount of MOS2 oil into the tool holder if you do not intend to use the drill for a longer period of time. This prevents the hammer to seize up.

Replacing the carbon brushes

The carbon brushes may only be replaced by an authorized specialist workshop or by qualified skilled personnel.

Replacing the mains cable

Damaged mains cables may only be replaced with genuine replacement cables available from the manufacturer.

Mains cables may only be replaced by the manufacturer, an authorized service center or a qualified person.

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	When the malfunction is detected, please disconnect the machine from the mains and contact a qualified specialist.
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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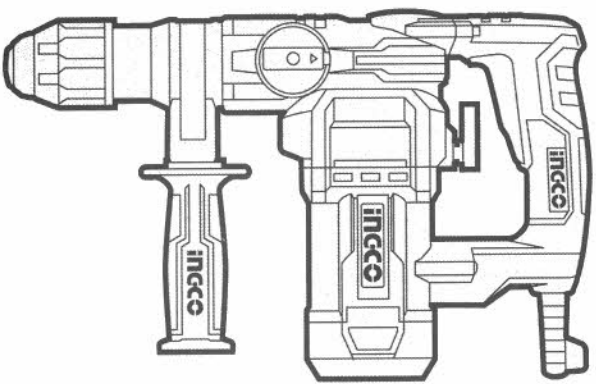

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