



# Using the Rotary Hammer

1. Wear your protective equipment including ear defenders and goggles.
2. Never attempt to enlarge a hole that you have already drilled - the bit will jam.
3. Check on the biggest drill that your machine can use - if you overload it, the bit may jam, causing the drill to start to rotate. This can cause serious hand or wrist injury. Do not use the trigger lock while hammer drilling.
4. When drilling, use the straight handle not the 'D' handle.
5. You will not feel any hammer action until the drill bit is pushed against the work piece.
6. Do not force the drill too hard, if you overload it the clutch will slip.
7. Watch out for signs that vibration may be affecting your hands. If your fingers start to tingle or feel numb, take a short break from using the machine. Exercise your fingers to encourage blood circulation.
8. To help prevent vibration affecting your hands, operate the machine for shorter periods. Keep your hands warm - wearing gloves may help do this.
9. In cold weather you may need to allow the machine to warm up for a few minutes before it reaches full efficiency.
10. Always fit a dust shield over the tool shank to keep debris out of the internal parts of the machine when using horizontally or upright. Do not let mud or dirt collect on the nose piece: it will enter the tool.
11. Keep the cable clear of the tool bit and any sharp edges on your work.
12. If you think the cable may be cut or damaged in any way, switch off and unplug at the mains before inspecting it. If the cable attached to the rotary hammer is damaged, stop using the machine. Contact the hire company. If an extension cable has been damaged, do not use it again.
13. Take care not to accidentally pull the plug from the socket.
14. Switch off and unplug from the main supply before leaving the rotary hammer unattended.
15. If your equipment does not work properly do not attempt to repair it. Contact the hire company.
16. You may want to read this leaflet again. Please keep it until you finish work.

Please keep this leaflet safely as it may be required for future reference



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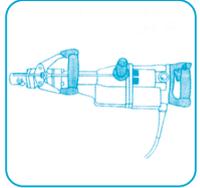
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# Kango 950 Rotary Hammer

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read this entire leaflet BEFORE using the Kango 950 Rotary Hammer



1. Electricity can be hazardous and must always be used with great care.
2. This rotary hammer is designed for hammer drilling and core drilling in concrete, masonry or brickwork. It can also be used for brick raking, chase cutting, scaling, light overhead breaking, removing plaster, tamping and similar jobs, using the appropriate tools.
3. The action of this rotary hammer can cause injury or damage if the machine is not used in a careful and controlled way.
4. If you have not used a rotary hammer before, familiarise yourself with the machine on some straightforward work before you start on the main task.
5. Plan your work and think ahead to make sure you will always be working safely.
6. You must have at least the following items of personal protective equipment: goggles; dust mask - a minimum of FFP3(s) protection; ear muffs or plugs; gloves; rcd if using a 230 volt (mains) supply.
7. This machine must not be used by minors, or by anyone under the influence of drugs or alcohol.
8. This rotary hammer is designed for operation by an able bodied adult. Anyone with either a temporary or permanent disability must seek expert advice before using it.



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**110 VOLT MACHINES (YELLOW PLUG)**

1. If you are using a portable transformer, plug the transformer directly into the 230 volt socket. Do not use any 230v extension cables. If you need to use an extension cable, follow any special instructions given by the hire company. If the hire company has not given any special instructions, you should only use a suitably rated heavy duty 110v extension cable, not longer than 50 metres (160 feet). You must only use an extension cable between the transformer and the machine.
3. Lay the extension cable out carefully, avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
4. Make sure that any extension cable connections are dry and safe.

**230 VOLT MACHINES (SQUARE PIN OR BLUE PLUG)**

1. Use a residual current device (rcd) plugged directly into the 230v socket. Plug your machine into the rcd. This will help to protect you against electric shock if the cable or machine get damaged.
2. Use the "TEST" button to check that the rcd is working each time you use it. Reset the rcd according to the instructions supplied with it.



**Before Starting Work...**

1. Do not use this Kango 950 where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
2. Make sure that the area is clear and safe and that no-one is near to you or could distract you.
3. Protect other people from the noise, debris and dust. Warn others to keep away, put barriers around your work area, but there are no hidden electric cables, gas, or water pipes where you are working.
4. Check that there are no hidden pipes, gas, or water pipes where you are working.
5. Hammer drilling, or breaking, brick and masonry makes a large amount of dust and debris - cover any surfaces, or objects that may be damaged, or difficult to clean.

**OPERATORS**

1. The following items of personal protective equipment (ppe) are the minimum that should be worn whenever you use the Kango 950. Particular jobs or environments may require a higher level of protection. You must wear appropriate impact resistant goggles when you are working with this machine.
2. This equipment is likely to cause noise levels up to 102 dB(A) - wear appropriate ear muffs or plugs giving hearing protection for this level as a minimum.
3. You will need to wear an appropriate dustmask (with a minimum of FFP3(s) protection) when you are breaking or drilling material that causes dust.
4. Anybody who is working near to you will also need to wear appropriate personal protective equipment.

**KANGO 950**

1. Check your machine, cables, plugs and drill bits. If anything is found damaged, do not use the rotary hammer - contact the hire company.
2. Check that the plug on your machine matches your supply. Do not try to force connections or improvise them.
3. Machines with a cylindrical yellow industrial plug fitted are designed to run off a special 110v supply. The hire company will have provided a portable transformer if you need a power the machine from a normal mains 230v supply. If a portable transformer has been supplied, take care not to injure yourself when moving it about - it may be heavier than you think. Machines designed to run directly from 230v mains will have either a normal square pin plug fitted, or a blue industrial plug. Always use the straight handle for hammer drilling, because it gives you more control - there is no need to remove the 'D' handle. Use the 'D' handle for all breaking jobs. When breaking you should remove the drilling handle. All the handles are insulated.
5. Vibration from using this rotary hammer can be hazardous. Warm your hands up before you start work, and wear gloves to keep your hands warm while you are working.
6. Check on how the on/off switch operates - before you switch the rotary hammer on, you must know how to stop it.
7. You must use drills, or core drills, or an integral shank, or a drill holder with integral shank. These drills or holders have a shank

**DRILL BITS**

1. You must use drills, or core drills, or an integral shank, or a drill holder with integral shank. These drills or holders have a shank

**ELECTRICAL SAFETY**

1. Your machine will only operate on one voltage: it will be 110v or 230v, 110v machines will have a yellow industrial plug fitted, 230v machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for your machine.
2. If you are using a drill holder, you need special taper shank drills and a drift tool to eject them. Your hire company will advise you.
3. You must only use the correct drill bits specifically for this rotary hammer. You must not use any other drill bits.
4. Ensure the shank is clean before you insert it into the nosepiece. Close the retainer latch to lock the drill in position. The retainer latch locks against the annular ring on drills instead of the groove as with chisels. You must not use the trigger lock while drilling, if the bit jams the machine will try to rotate, you need to prevent injury or damage. Use the trigger lock only when chiselling and breaking.
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