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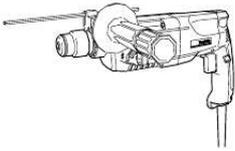
You can read the recommendations in the user guide, the technical guide or the installation guide for MAKITA HR2450. You'll find the answers to all your questions on the MAKITA HR2450 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual MAKITA HR2450**  
**User guide MAKITA HR2450**  
**Operating instructions MAKITA HR2450**  
**Instructions for use MAKITA HR2450**  
**Instruction manual MAKITA HR2450**

**INSTRUCTION MANUAL**  
**MANUEL D'INSTRUCTION**  
**MANUAL DE INSTRUCCIONES**

**Rotary Hammer**  
**Marteau rotatif**  
**Martillo rotativo**

HR2450F  
HR2450  
HR2451  
HR2452



DOUBLE INSULATION  
DOUBLE ISOLATION  
DOBLE AISLAMIENTO

**⚠ WARNING:**  
For your personal safety, READ and UNDERSTAND before using.  
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

**⚠ AVERTISSEMENT:**  
Pour votre propre sécurité, prière de lire attentivement avant l'utilisation.  
GARDER CES INSTRUCTIONS POUR RÉFÉRENCE ULTÉRIEURE.

**⚠ ADVERTENCIA:**  
Para su seguridad personal, LEA DETENIDAMENTE este manual antes de usar la herramienta.  
GUARDE ESTAS INSTRUCCIONES PARA FUTURA REFERENCIA.



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**Manual abstract:**

Model Concrete Core bit Capacities Steel Wood No load speed (RPM) Blows per minute Overall length Net weight 13 mm (1/2") 32 mm (1-1/4") 0 - 1,100/min. Due to our continuing programme of research and development, the specifications herein are subject to change without notice. Note: Specifications may differ from country to country. Grounded power cord and grounded power supply system. 5. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock. do not abuse the cord.

Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

Keep your work area clean and well lit. cluttered benches and dark areas invite accidents. 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. Distractions can cause you to lose control.

Double insulated tools are equipped with a polarized plug (one blade is wider than the other. ) This plug will fit in a polarized outlet only one way. Do not change the plug in any way. Double insulation eliminates the need for the three wire Do not wear loose clothing or jewelry. contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Be sure switch is off before plugging in. Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

Proper footing and balance enables better control of the tool in unexpected situations. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sun glasses are NOT eye protection. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control. 21. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. if damaged , have the tool serviced before using. Many accidents are caused by poorly maintained tools. 22. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control. Use the correct tool for your application.

The correct tool will do the job better and safer at the rate for which it is designed. 17. Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired. 18.

Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally. 19. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury. 24. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.

Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of electric shock or injury. USE PROPER EXTENSION CORD: Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. Wear ear protectors when using the tool for extended periods. Prolonged exposure to high intensity noise can cause hearing loss. Wear a hard hat (safety helmet), safety glasses and/or face shield. Ordinary eye or sun glasses are NOT safety glasses.

Be sure the bit is secured in place before operation. under normal operation , the tool is designed to produce vibration. The screws can come loose easily, causing a breakdown or accident. check tightness of screws carefully before operation. Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations. hold the tool firmly with both hands. Keep hands away from moving parts. Do not point the tool at any one in the area when operating. The bit could fly out and injure someone seriously.

12. 13. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data. Tool speed is increased by increasing pressure on the switch trigger. release the switch trigger to stop. For model HR2452 To start the tool, simply pull the switch trigger. release the switch trigger to stop. To turn on the lamp, pull the trigger.

Release the trigger to turn it off. For counterclockwise rotation, you cannot push in the lock button. Use a bull point, cold chisel, scaling chisel, etc. Use a twist drill bit or wood bit. the tool will be damaged. To avoid rapid wear on the mode change mechanism, be sure that the action mode changing knob is always positively located in one of the three action mode positions. The torque limiter will actuate when a certain torque level is reached. CAUTION: As soon as the torque limiter actuates, switch off the tool immediately. This will help prevent premature wear of the tool. Hole saws cannot be used with this tool.

They tend to pinch or catch easily in the hole. This will cause the torque limiter to actuate too frequently. CAUTION: Always be sure that the tool is switched off and unplugged before carrying out any work on the tool. Grip base Side grip Loosen Teeth Protrusion Tighten To remove the bit, pull the chuck cover down all the way and pull the bit out. Install the side grip so that the teeth on the grip fit in between the protrusions on the tool barrel.

Then tighten the grip by turning clockwise at the desired position. It may be swung 360° so as to be secured at any position. Coat the bit shank head beforehand with a small amount of bit grease (about 0. This chuck lubrication assures smooth action and longer service life.



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*Clean the bit shank and apply bit grease before installing the bit.*

*Then make sure that the bit is securely held in place by turning it slightly. Turn the bit and push it in until it engages. After installing, always make sure that the bit is securely held in place by trying to pull it out. Light pressure gives best results. Keep the tool in position and prevent it from slipping away from the hole. Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool at an idle, then remove the bit partially from the hole. By repeating this several times, the hole will be cleaned out and normal drilling may be resumed. CAUTION: There is tremendous and sudden twisting force exerted on the tool/bit at the time of hole breakthrough, when the hole becomes clogged with chips and particles, or when striking reinforcing rods embedded in the concrete. Always use the side grip (auxiliary handle) and firmly hold the tool by both side grip and switch handle during operations.*

*The depth gauge cannot be used at the position where the depth gauge strikes against the gear housing. Eccentricity in the bit rotation may occur while operating the tool with no load. The tool automatically centers itself during operation. This does not affect the drilling precision. Use the dust cup to prevent dust from falling over the tool and on yourself when performing overhead drilling operations. Attach the dust cup to the bit as shown in the figure. The size of bits which the dust cup can be attached to is as follows. Dust cup 5 Dust cup 9 After drilling the hole, use the blow-out bulb to clean the dust out of the hole. Turn the tool on and apply slight pressure on the tool so that the tool will not Pressing very hard on the tool will not increase the efficiency. @@@@*

*there is a tremendous twisting force exerted on the tool/bit at the time of hole breakthrough.*

*Hold the tool firmly and exert care when the bit begins to break through the workpiece. A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly. Always secure small workpieces in a vise or similar hold-down device. When performing diamond core drilling operations, always set the change lever to the position to use "rotation only" action. If performing diamond core drilling operations using "rotation with hammering" action, the diamond core bit may be damaged. CAUTION: These accessories or attachments ar.*



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