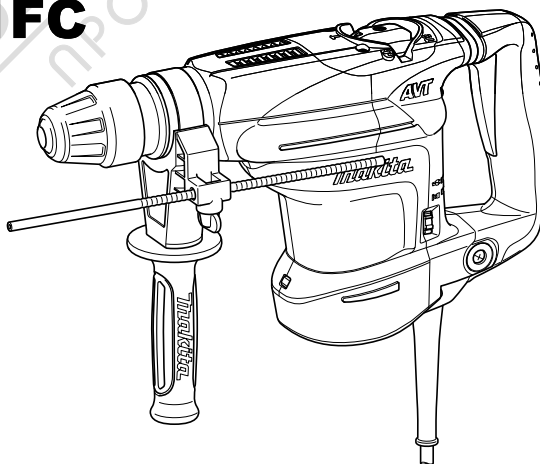
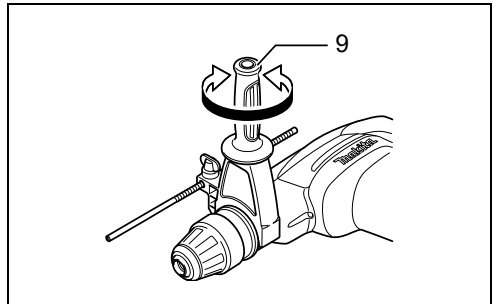
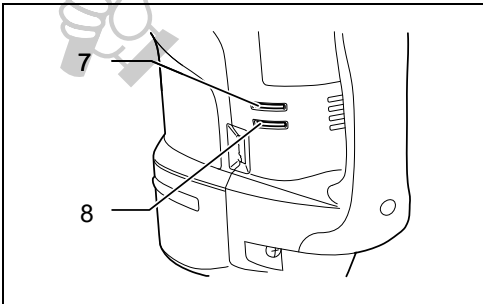
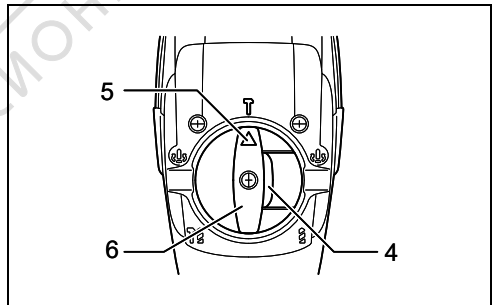
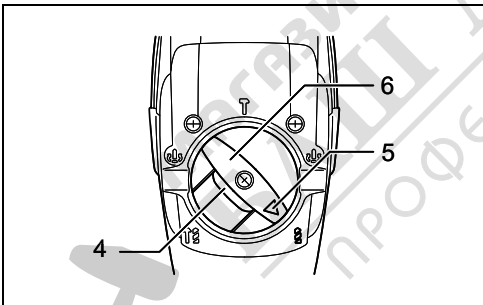
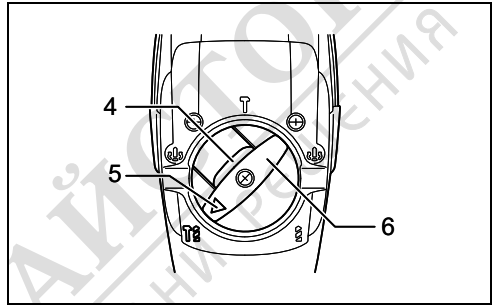
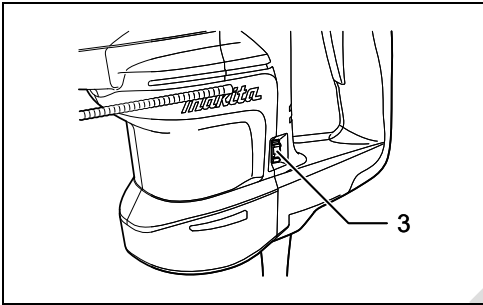
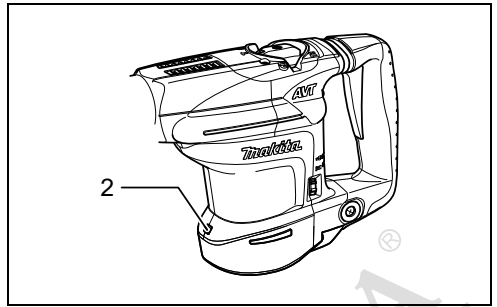
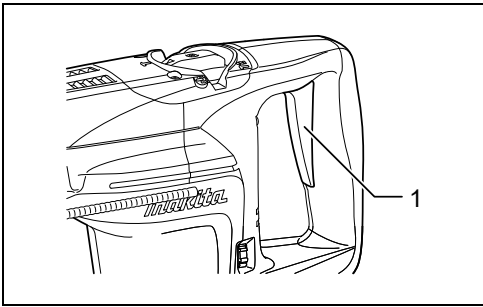


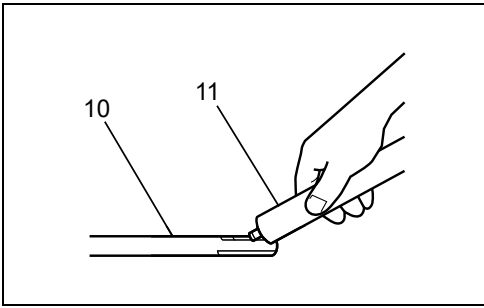


<b>GB</b>	<b>Combination Hammer</b>	<b>Instruction manual</b>
<b>F</b>	<b>Marteau-perforateur-burineur</b>	<b>Manuel d'instructions</b>
<b>D</b>	<b>Kombi-Hammer</b>	<b>Betriebsanleitung</b>
<b>I</b>	<b>Martello combinato</b>	<b>Istruzioni per l'uso</b>
<b>NL</b>	<b>Combinatiehamer</b>	<b>Gebruiksaanwijzing</b>
<b>E</b>	<b>Martillo combinado</b>	<b>Manual de instrucciones</b>
<b>P</b>	<b>Martelo combinado</b>	<b>Manual de instruções</b>
<b>DK</b>	<b>Kombinationshammer</b>	<b>Brugsanvisning</b>
<b>GR</b>	<b>Πνευματικό-σκαπτικό δράπανο</b>	<b>Οδηγίες χρήσης</b>

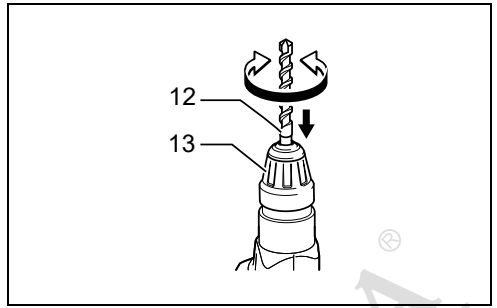
**HR3540C**  
**HR3541FC**



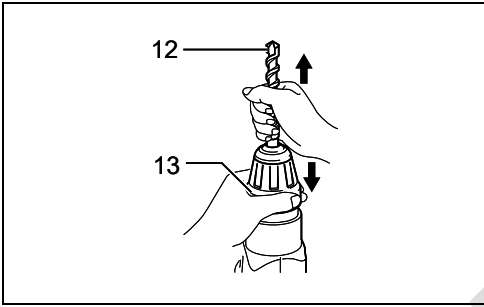




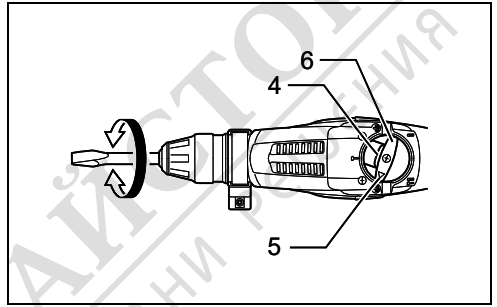
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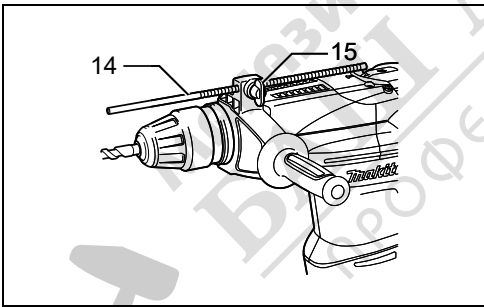
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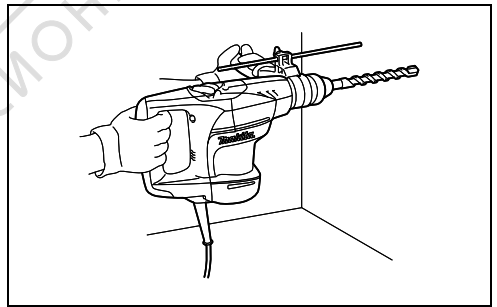
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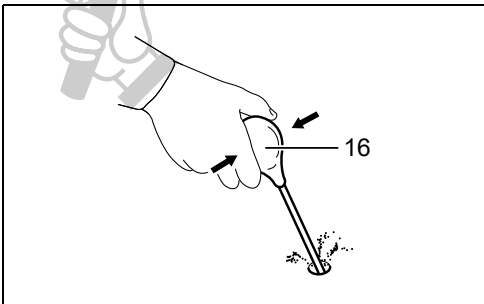
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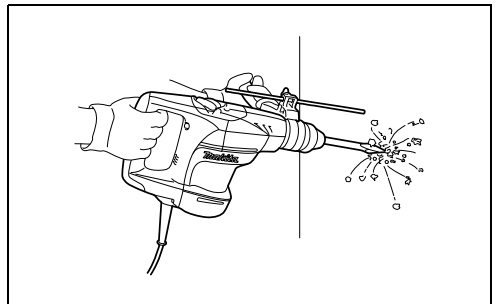
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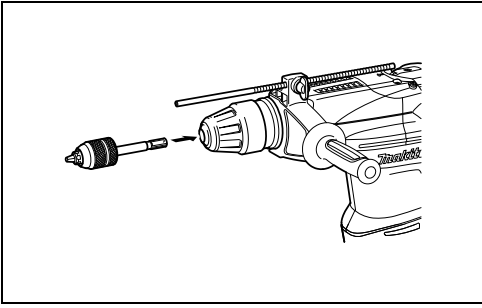
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16



17



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## ENGLISH (Original instructions)

### Explanation of general view

- |                   |                                    |                   |
|-------------------|------------------------------------|-------------------|
| 1. Switch trigger | 7. Power-ON indicator lamp (green) | 13. Chuck cover   |
| 2. Lamp           | 8. Service indicator lamp (red)    | 14. Depth gauge   |
| 3. Adjusting dial | 9. Side grip                       | 15. Clamp screw   |
| 4. Lock button    | 10. Bit shank                      | 16. Blow-out bulb |
| 5. Pointer        | 11. Bit grease                     |                   |
| 6. Change lever   | 12. Bit                            |                   |

## SPECIFICATIONS

Model		HR3540C	HR3541FC
Capacities	Concrete	Tungsten-carbide tipped bit	35 mm
		Core bit	90 mm
	Steel		13 mm
	Wood		32 mm
No load speed (min <sup>-1</sup> )		315 - 630	
Blows per minute		1,650 - 3,300	
Overall length		439 mm	
Net weight		5.2 kg	5.6 kg
Safety class		II/II	

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- Weight according to EPTA-Procedure 01/2014

### Intended use

ENE044-1

The tool is intended for hammer drilling in brick, concrete and stone as well as for chiselling work.

### Power supply

ENF002-2

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated and can, therefore, also be used from sockets without earth wire.

## General power tool safety warnings

GEA010-2

**⚠ 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.

## ROTARY HAMMER SAFETY WARNINGS

GEB243-1

### 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 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.

### Safety instructions when using long drill bits with rotary hammers

1. **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.
2. **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 warnings

1. **Wear a hard hat (safety helmet), safety glasses and/or face shield.** Ordinary eye or sun glasses are NOT safety glasses. It is also highly recommended that you wear a dust mask and thickly padded gloves.

2. Be sure the bit is secured in place before operation.
3. 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.
4. In cold weather or when the tool has not been used for a long time, let the tool warm up for a while by operating it under no load. This will loosen up the lubrication. Without proper warm-up, hammering operation is difficult.
5. Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
6. Hold the tool firmly with both hands.
7. Keep hands away from moving parts.
8. Do not leave the tool running. Operate the tool only when hand-held.
9. Do not point the tool at any one in the area when operating. The bit could fly out and injure someone seriously.
10. Do not touch the bit, parts close to the bit, or workpiece immediately after operation; they may be extremely hot and could burn your skin.
11. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
12. Do not touch the power plug with wet hands.

## SAVE THESE INSTRUCTIONS.

### WARNING:

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

## FUNCTIONAL DESCRIPTION

### CAUTION:

- Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

### Switch action (Fig. 1)

#### CAUTION:

- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To start the tool, simply pull the switch trigger. Release the switch trigger to stop.

### Lighting up the lamp

For Model HR3541FC (Fig. 2)

#### CAUTION:

- Do not look in the light or see the source of light directly.

Pull the switch trigger to turn on the light. The lamp keeps on lighting while the switch trigger is being pulled. The lamp turns off 10 - 20 seconds after releasing the trigger.

### NOTE:

- Use a dry cloth to wipe the dirt off the lens of lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.

### Speed change (Fig. 3)

The revolutions and blows per minute can be adjusted just by turning the adjusting dial. The dial is marked 1 (lowest speed) to 5 (full speed).

Refer to the table below for the relationship between the number settings on the adjusting dial and the revolutions/blows per minute.


Number on adjusting dial	Revolutions per minute	Blows per minute
5	630	3,300
4	590	3,100
3	480	2,500
2	370	1,900
1	315	1,650

### CAUTION:


- If the tool is operated continuously at low speeds for a long time, the motor will get overloaded, resulting in tool malfunction.
- The speed adjusting dial can be turned only as far as 5 and back to 1. Do not force it past 5 or 1, or the speed adjusting function may no longer work.

### Selecting the action mode


#### Rotation with hammering (Fig. 4)

For drilling in concrete, masonry, etc., depress the lock button and rotate the change lever so that the pointer points to the  symbol. Use a tungsten-carbide tipped bit.

#### Rotation only (Fig. 5)

For drilling in wood or metal, materials, etc., depress the lock button and rotate the change lever so that the pointer points to the  symbol. Use a twist drill bit or wood bit.

#### Hammering only (Fig. 6)

For chipping, scaling or demolition operations, depress the lock button and rotate the change lever so that the pointer points to the  symbol. Use a bull point, cold chisel, scaling chisel, etc.

### CAUTION:

- Do not rotate the change lever when the tool is running under load. The tool will be damaged.
- To avoid rapid wear on the mode change mechanism, be sure that the change lever is always positively located in one of the three action mode positions.

### Torque limiter

The torque limiter will actuate when a certain torque level is reached. The motor will disengage from the output shaft. When this happens, the bit will stop turning.

### CAUTION:

- As soon as the torque limiter actuates, switch off the tool immediately. This will help prevent premature wear of the tool.

## Indicator lamp (Fig. 7)

The green power-ON indicator lamp lights up when the tool is plugged. If the indicator lamp does not light up, the main cord or the controller may be defective. The indicator lamp is lit but the tool does not start even if the tool is switched on, the carbon brushes may be worn out, or the controller, the motor or the ON/OFF switch may be defective.

The red service indicator lamp lights up when the carbon brushes are nearly worn out to indicate that the tool needs servicing. After approx. 8 hours of use, the motor will automatically be shut off.

## ASSEMBLY

### CAUTION:

- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

## Installing side grip (auxiliary handle) (Fig. 8)

### CAUTION:

- Always use the side grip to ensure operating safety when drilling in concrete, masonry, etc.

The side grip swings around to either side, allowing easy handling of the tool in any position. Loosen the side grip by turning it counterclockwise, swing it to the desired position and then tighten it by turning clockwise.

## Installing or removing the bit (Fig. 9)

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

Insert the bit into the tool. Turn the bit and push it in until it engages. (Fig. 10)

If the bit cannot be pushed in, remove the bit. Pull the chuck cover down a couple of times. Then insert the bit again. 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.

To remove the bit, pull the chuck cover down all the way and pull the bit out. (Fig. 11)

## Bit angle (when chipping, scaling or demolishing) (Fig. 12)

The bit can be secured at 24 different angles. To change the bit angle, depress the lock button and rotate the change lever so that the pointer points to the symbol. Turn the bit to the desired angle.

Depress the lock button and rotate the change lever so that the pointer points to the symbol. Then make sure that the bit is securely held in place by turning it slightly.

## Depth gauge (Fig. 13)

The depth gauge is convenient for drilling holes of uniform depth. Loosen the clamp screw and adjust the depth gauge to the desired depth. After adjusting, tighten the clamp screw firmly.

### NOTE:

- The depth gauge cannot be used at the position where the depth gauge strikes against the gear housing/motor housing.

## OPERATION

### CAUTION:

- Always use the side grip (auxiliary handle) and firmly hold the tool by both side grip and switch handle during operations.

## Hammer drilling operation (Fig. 14)

Set the change lever to the symbol.

Position the bit at the desired location for the hole, then pull the switch trigger. Do not force the tool. 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:

- When the bit begins to break through concrete or if the bit strikes reinforcing rods embedded in concrete, the tool may react dangerously. Maintain good balance and safe footing while holding the tool firmly with both hands to prevent dangerous reaction.

## Blow-out bulb (optional accessory) (Fig. 15)

After drilling the hole, use the blow-out bulb to clean the dust out of the hole.

## Chipping/Scaling/Demolition (Fig. 16)

Set the change lever to the symbol.

Hold the tool firmly with both hands. Turn the tool on and apply slight pressure on the tool so that the tool will not bounce around, uncontrolled. Pressing very hard on the tool will not increase the efficiency.

## Drilling in wood or metal (Fig. 17)

Use the optional keyless drill chuck assembly. When installing it, refer to "Installing or removing the bit" described on the previous page.

Set the change lever so that the pointer points to the symbol.

Hold the ring and turn the sleeve counterclockwise to open the chuck jaws. Place the bit in the chuck as far as it will go. Hold the ring firmly and turn the sleeve clockwise to tighten the chuck. To remove the bit, hold the ring and turn the sleeve counterclockwise.

### CAUTION:

- Never use "rotation with hammering" when the quick change drill chuck is installed on the tool.  
The quick change drill chuck may be damaged.
- Pressing excessively on the tool will not speed up the drilling. In fact, this excessive pressure will only serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.
- 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.
- Always secure small workpieces in a vise or similar hold-down device.

## Diamond core drilling

When performing diamond core drilling operations, always set the change lever to the  $\text{H}$  position to use "rotation only" action.

### CAUTION:

- If performing diamond core drilling operations using "rotation with hammering" action, the diamond core bit may be damaged.

## MAINTENANCE

### CAUTION:

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- Never use gasoline, benzene, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

## Lubrication

### ⚠ CAUTION:

- This servicing should be performed by Makita Authorized Service Centers only.

This tool requires no hourly or daily lubrication because it has a grease-packed lubrication system. It should be relubricated regularly. Send the complete tool to Makita Authorized or Factory Service Center for this lubrication service.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

## OPTIONAL ACCESSORIES

### ⚠ CAUTION:

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- SDS-Max Carbide-tipped bits
- Bull point
- Core bit
- Cold chisel
- Diamond core bit
- Hammer grease
- Scaling chisel
- Grooving chisel
- Keyless drill chuck assembly
- Bit grease
- Side grip
- Depth gauge
- Blow-out bulb
- Plastic carrying case

### NOTE:

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

## Noise

The typical A-weighted noise level determined according to EN62841-2-6:

Sound pressure level ( $L_{pA}$ ): 94 dB (A)

Sound power level ( $L_{WA}$ ): 102 dB (A)

Uncertainty (K) : 3 dB (A)

ENG907-1

- The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.
- The declared noise emission value(s) may also be used in a preliminary assessment of exposure.

### ⚠ WARNING:

- **Wear ear protection.**
- **The noise emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.**
- **Be sure to 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).**

## Vibration

The following table shows the vibration total value (tri-axial vector sum) determined according to applicable standard.

### Model HR3540C

Work mode	Vibration emission	Uncertainty (K)	Applicable standard / Test condition
Hammer drilling into concrete ( $a_h, HD$ )	15.3 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	EN62841-2-6
Chiselling ( $a_h, CHed$ )	11.6 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	EN62841-2-6

### Model HR3541FC

Work mode	Vibration emission	Uncertainty (K)	Applicable standard / Test condition
Hammer drilling into concrete ( $a_h, HD$ )	8.3 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	EN62841-2-6
Chiselling ( $a_h, CHed$ )	7.1 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>	EN62841-2-6

ENG901-2

- The declared vibration total value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.
- The declared vibration total value(s) may also be used in a preliminary assessment of exposure.

### ⚠ WARNING:

- **The vibration emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.**

- Be sure to 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).

**Declarations of Conformity**

***For European countries only***

The Declarations of conformity are included in Annex A to this instruction manual.



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