

Makita Cordless Multi Tool DTM50

A powerful and versatile tool with a 3.2° oscillation angle for cutting, sanding and scraping materials. Suitable for use with wood, stone, plastic, metal and plasterboard.

User Benefits

- Lever style lock system allows for quick installation and replacement of accessories
- Ergonomically best possible barrel grip
- Variable speed control dial
- High operating efficiency
- Accessories can be installed at 30° increments, across 360°

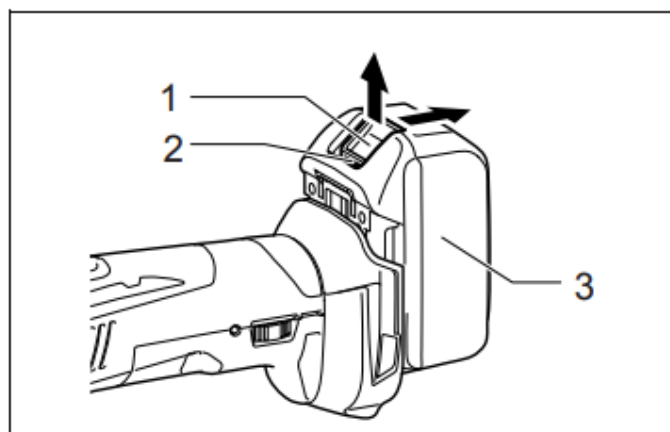


Battery Capacity Warning Lamp:

- Blinking red – power is almost used up
- Solid red – power has been used up

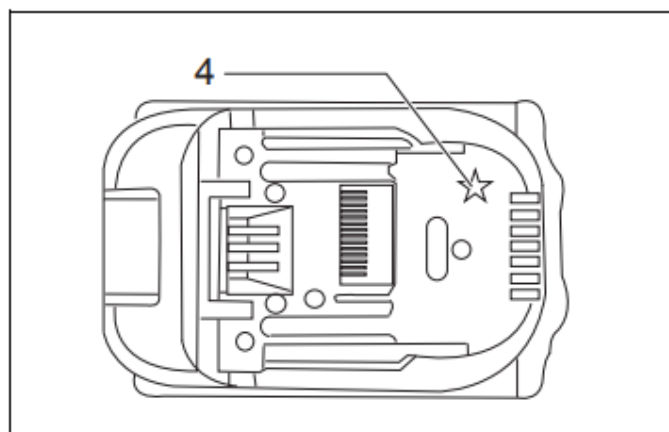
Machine Specifications

Oscillation per minute	6000 – 20,000 rpm
Oscillation angle, left/right	1.6° (3.2° total)
Overall length	307 – 324 mm
Rated Voltage	18 V
Battery cartridge	BL1815N / BL1820 / BL1820B / BL1830 / BL1830B / BL1840 / BL1840B / BL1850 / BL1850B / BL1860B
Charger	DC18RC / DC18RD / DC18RE / DC18SD / DC18SE / DC18SF
Net Weight	1.8 – 2.2 kg



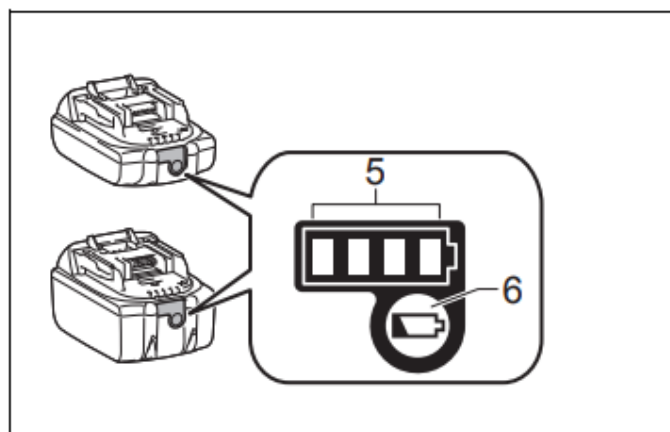
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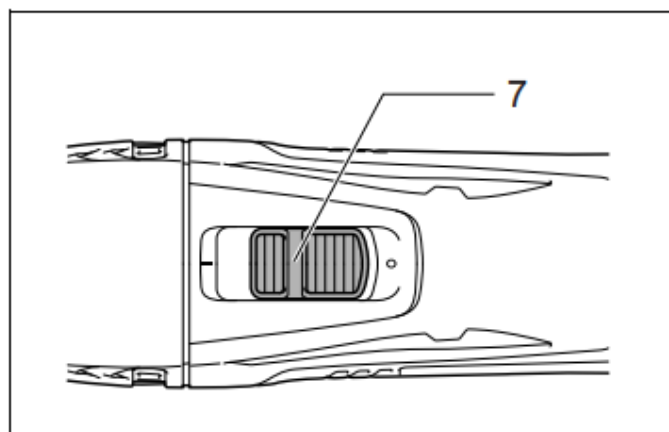
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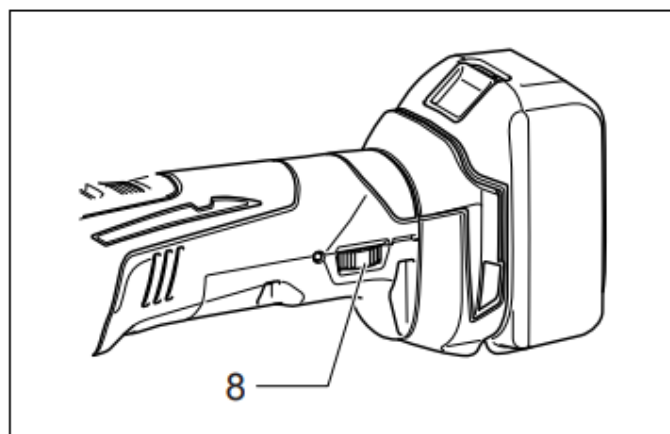
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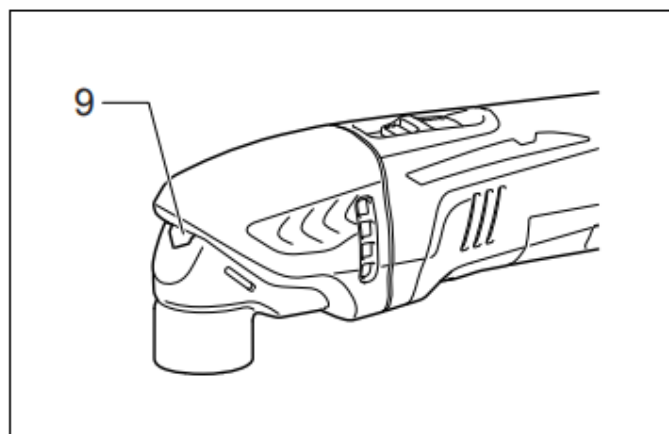
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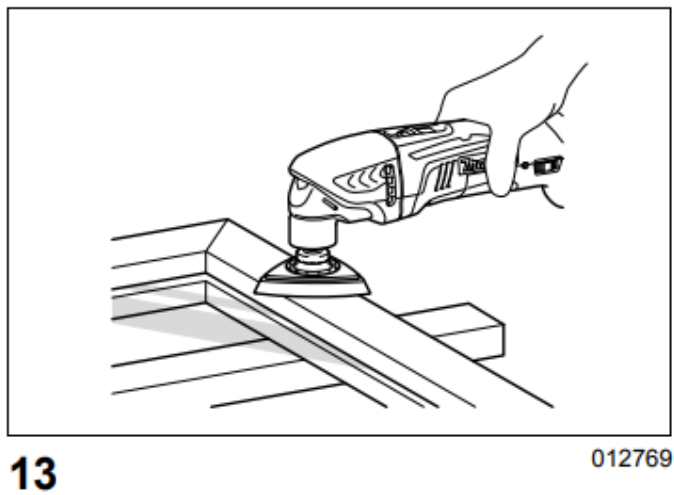
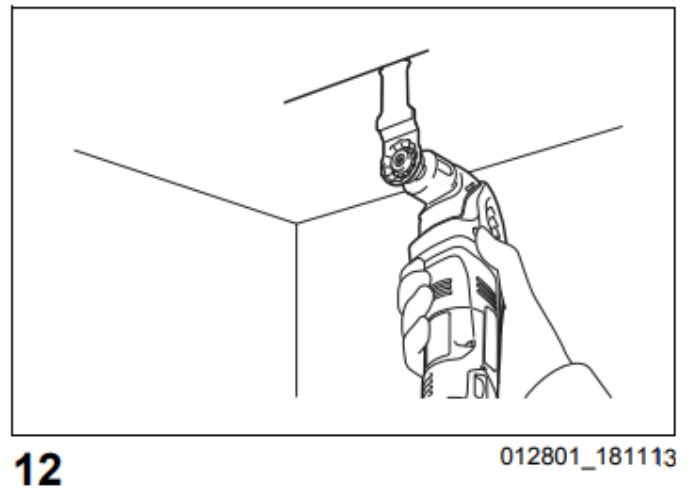
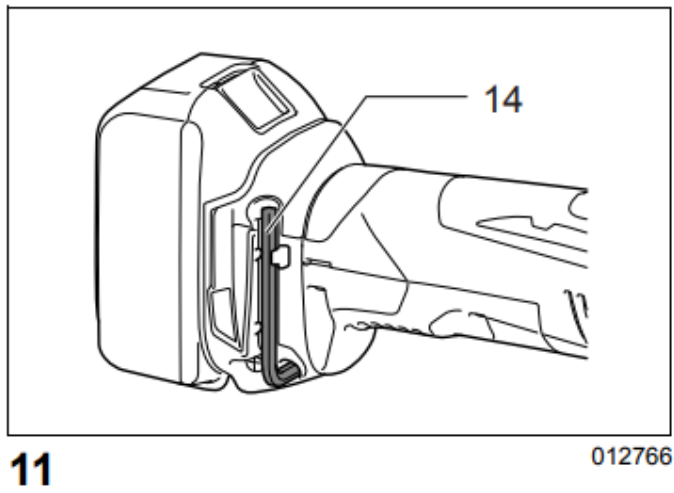
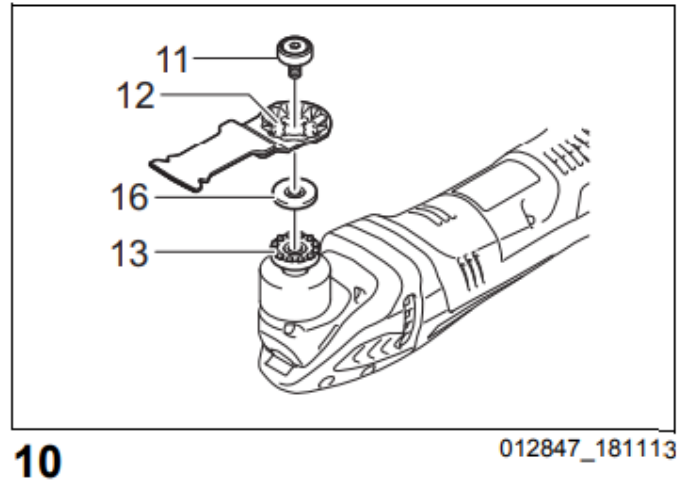
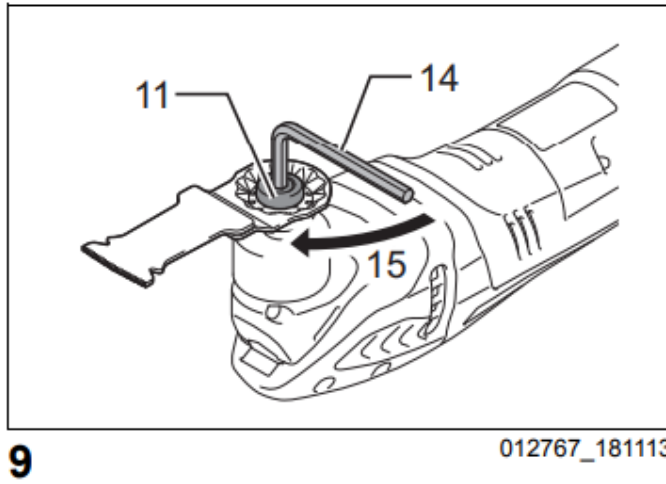
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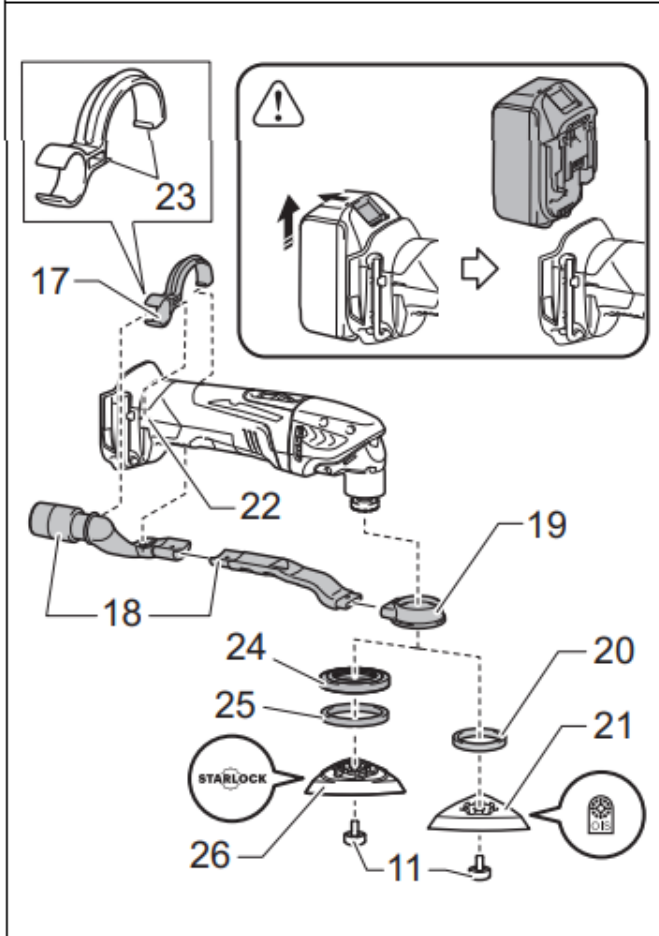
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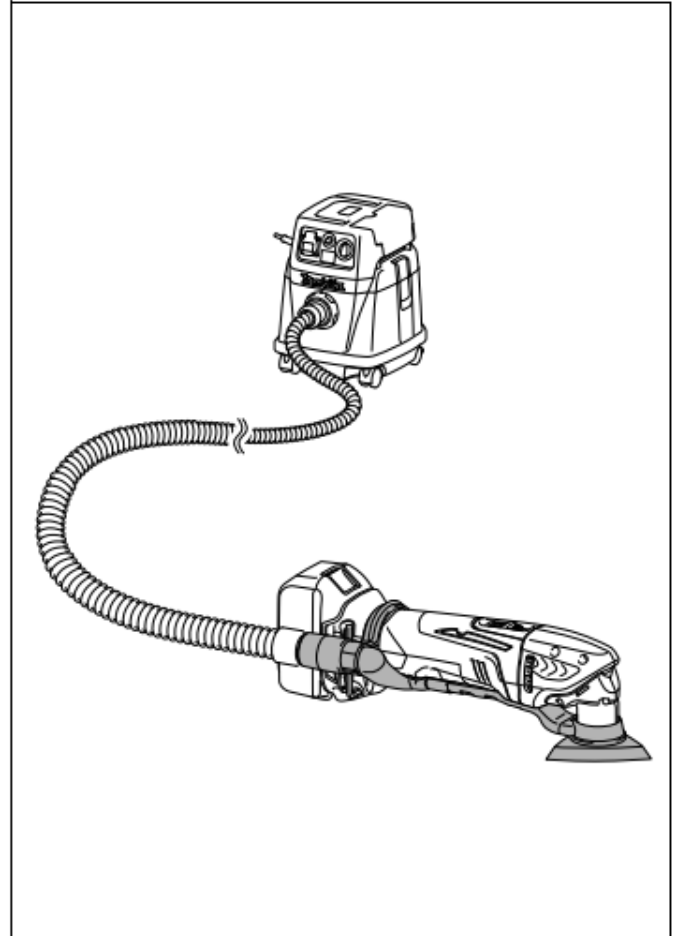
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Adjusting the orbital stroke rate (Fig. 5)

The orbital stroke rate is adjustable. To change the orbital stroke rate, turn the dial between 1 and 6. The higher the number is, the higher the orbital stroke rate is. Preset the dial to the number suitable for your workpiece.

NOTE:

- The dial cannot be turned directly from 1 to 6 or from 6 to 1. Forcing the dial may damage the tool. When changing the dial direction, always turn the dial moving it through each intermediate number.

Lighting up the front lamp (Fig. 6) **WARNING:**

- Never look into the light directly. Direct light causes damage to your eyes.

Slide the slide switch toward the "I (ON)" position to light up the front lamp. The lamp keeps on lighting while the switch is the "I (ON)" position. The light automatically goes out after pressing the rear of the slide switch, and then sliding the slide switch toward the "O (OFF)" position.

Overload protection

When the tool is overloaded and the tool temperature reaches a certain level, the front lamp blinks and the tool automatically stops. Remove a cause of overload to restart.

Indication lamp (Fig. 7)

- When the remaining battery capacity gets low, the indication lamp blinks.
- When the remaining battery capacity gets much lower, the tool stops during operation and the indication lamp lights up about 10 seconds.

At this time, remove the battery cartridge from the tool and charge it.

ASSEMBLY **CAUTION:**

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

Installing or removing application tool (optional accessory) (Fig. 8, 9 & 10) **WARNING:**

- Do not install application tool upside down. Installing application tool upside down may damage the tool and cause serious personal injury.
- Install attachment tool in the correct direction according to your work. Application tool can be installed at an angle of every 30 degree.

Put an application tool (optional accessory) on the tool flange so that the protrusions of the tool flange fit in the holes in the application tool and secure the application tool by tightening the bolt firmly with the hex wrench.

When using sanding application tool, mount the application tool on the sanding pad so that it matches the sanding pad direction.

The sanding pad has a hook and loop type fitting system which allows easy and rapid fitting of a sanding paper.

As sanding papers have holes for dust extraction, mount a sanding paper so that the holes in a sanding paper match those in the sanding pad.

To remove a sanding paper, raise its end and peel it off. Loosen and remove the application tool installation bolt using a hex wrench and then take off the application tool.

When using application tools with a different type of installation section, use a correct adapter (optional accessory).

Hex wrench storage (Fig. 11)

When not in use, store the hex wrench as shown in the figure to keep it from being lost.

OPERATION **WARNING:**

- Before starting the tool and during operation, keep your hand and face away from the application tool.

 **CAUTION:**

- Do not apply excessive load to the tool which may cause a motor lock and stop the tool.

Cutting, sawing and scraping (Fig. 12) **CAUTION:**

- Do not move on the tool forcibly in the direction (eg. towards either side) of tool application with no cutting edge. It may damage the tool.

Put the application tool on the workpiece.

And then move the tool forward so that the application tool movement does not slow down.

NOTE:

- Forcing or excessive pressure on the tool may reduce efficiency.
- Before cutting operation, it is recommended to preset the orbital stroke rate 4 – 6.

Sanding (Fig. 13) **CAUTION:**

- Do not reuse a sanding paper used for sanding metal to sand wood.
- Do not use a worn sanding paper or sanding paper without grit.

Apply a sanding paper on the workpiece.

NOTE:

- Using a test material sample to try is recommendable to determine a correct orbital stroke rate suitable for your work.
- Use a sanding paper with the same grit until sanding the whole workpiece is completed. Replacing a sanding paper with different grit sanding paper may not get a fine finish.

Dust extraction attachment (optional accessory) (Fig. 14 & 15)

- Install dust nozzles and dust attachment.
- Install the nozzle band on the tool so that its protrusions fit in the holes in the tool to secure it.
- Put the felt ring and the sanding pad on the dust attachment and then secure them with the application tool installation bolt.

When you wish to perform cleaner operation, connect a vacuum cleaner to your tool. Connect a hose of vacuum cleaner to the dust extraction attachment (optional accessory).

MAINTENANCE

⚠ CAUTION:

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

To maintain product SAFETY and RELIABILITY, repairs, carbon brush inspection and replacement, 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.

- Segment saw blade
- Round saw blade
- Plunge cut saw blade
- Scraper (rigid)
- Scraper (flexible)
- Serrated seg blade
- General joint cutter
- HM remover
- HM seg saw blade
- HM sanding plate
- Diamond seg sawblade
- Sanding pad
- Adapter
- Abrasive paper delta (red / white / black)
- Fleece delta (medium / coarse / without grit)
- Polishing felt delta
- Hex wrench
- Dust extraction attachment
- Makita genuine battery and charger

NOTE:

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

ENG905-1

Noise

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

Work mode: Sanding

Sound pressure level (L_{pA}): 78 dB (A)

Uncertainty (K): 3 dB (A)

The noise level under working may exceed 80 dB (A).

Work mode: Cutting with plunge cut saw blade

Model DTM40

Sound pressure level (L_{pA}): 82 dB (A)

Sound power level (L_{WA}): 93 dB (A)

Uncertainty (K): 3 dB (A)

Model DTM50

Sound pressure level (L_{pA}): 84 dB (A)

Sound power level (L_{WA}): 95 dB (A)

Uncertainty (K): 3 dB (A)

Work mode: Cutting with segmental saw blade

Sound pressure level (L_{pA}): 81 dB (A)

Sound power level (L_{WA}): 92 dB (A)

Uncertainty (K): 3 dB (A)

Work mode: Scraping

Model DTM40

Sound pressure level (L_{pA}): 81 dB (A)

Sound power level (L_{WA}): 92 dB (A)

Uncertainty (K): 3 dB (A)

Model DTM50

Sound pressure level (L_{pA}): 83 dB (A)

Sound power level (L_{WA}): 94 dB (A)

Uncertainty (K): 3 dB (A)

ENG907-1

NOTE:

- 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).

ENG900-1

Vibration

The vibration total value (tri-axial vector sum) determined according to EN62841:

Work mode: Sanding

Vibration emission (a_h): 2.5 m/s² or less

Uncertainty (K): 1.5 m/s²

Work mode: Cutting with plunge cut saw blade

Model DTM40

Vibration emission (a_h): 9.5 m/s²

Uncertainty (K): 1.5 m/s²

Model DTM50

Vibration emission (a_h): 10.0 m/s²

Uncertainty (K): 1.5 m/s²

Work mode: Cutting with segmental saw blade

Model DTM40

Vibration emission (a_h): 5.0 m/s²

Uncertainty (K): 1.5 m/s²

Model DTM50

Vibration emission (a_h): 5.5 m/s²

Uncertainty (K): 1.5 m/s²

Work mode: Scraping

Model DTM40

Vibration emission (a_h): 7.5 m/s²

Uncertainty (K): 1.5 m/s²

Model DTM50

Vibration emission (a_h): 9.5 m/s²

Uncertainty (K): 1.5 m/s²

ENG901-2

NOTE:

- 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).

EC DECLARATION OF CONFORMITY**For European countries only**

The EC declaration of conformity is included as Annex A to this instruction manual.

