

## Intended use

Your BLACK+DECKER™ REVHD12C-Impact Drill, has been designed for screwdriving applications and for drilling in wood metal and masonry. This tool is intended for consumer use only.

## Safety instructions

### General power tool safety warnings



**Warning! Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow the warnings and 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 all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

1. **Work area safety**
  - a. **Keep work area clean and well lit.** Cluttered or 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 away while operating a power tool.** Distractions can cause you to lose control.
2. **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.
3. **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 energising 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. Keep proper footing and balance at all times.** 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.
  - h. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.
4. **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 and accessories. 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, taking into account 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. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

#### 5. Battery tool use and care

- a. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- e. **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- f. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.

**Note:** The temperature „130 °C“ can be replaced by the temperature „265 °F“.

- g. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.**

Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

#### 6. Service

- a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- b. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

#### Safety Instructions for All Operations

- **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.
- **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

#### Additional power tool safety warnings



**Warning!** Additional Safety Warnings for Drill/Driver/ Hammerdrill.

- 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.
- Accessories and tool may get hot during operation. Wear gloves when handling them if performing heat producing applications such as drilling metals.
- Air vents often cover moving parts and should be avoided. Loose clothes, jewelry or long hair can be caught in moving parts.
- Wear safety goggles or other eye protection. Hammering and drilling operations cause chips to fly. Flying particles can cause permanent eye damage.
- Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
- Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
- Do not operate this tool for long periods of time. Vibration caused by tool action may be harmful to your hands and arms. Use gloves to provide extra cushion and limit exposure by taking frequent rest periods.

#### Safety instructions when using long drill bits

- ◆ **Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.

- ◆ **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.
- ◆ **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.

### Safety of others

- ◆ This tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- ◆ Children should be supervised to ensure that they do not play with the appliance.

### Residual risks

Additional residual risks may arise when using the tool which may not be included in the enclosed safety warnings. These risks can arise from misuse, prolonged use etc.

Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks can not be avoided. These include:

- ◆ Injuries caused by touching any rotating/moving parts.
- ◆ Injuries caused when changing any parts, blades or accessories.
- ◆ Injuries caused by prolonged use of a tool. When using any tool for prolonged periods ensure you take regular breaks.
- ◆ Impairment of hearing.
- ◆ Health hazards caused by breathing dust developed when using your tool (example:- working with wood, especially oak, beech and MDF.)

### Vibration

The declared vibration emission values stated in the technical data and the declaration of conformity have been measured in accordance with a standard test method provided by EN62841 and may be used for comparing one tool with another.

The declared vibration emission value may also be used in a preliminary assessment of exposure.

**Warning!** The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used. The vibration level may increase above the level stated.

When assessing vibration exposure to determine safety measures required by 2002/44/EC to protect persons regularly using power tools in employment, an estimation of vibration exposure should consider, the actual conditions of use and the way the tool is used, including 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.

### Labels on tool

The following pictograms along with the date code are shown on the tool:



**Warning!** To reduce the risk of injury, the user must read the instruction manual.



Do not stare at operating lamp

### Important safety instructions for all integral battery tools

**Warning!** Read all safety warnings, instructions, and cautionary markings for the battery, charger and product. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

- ◆ Never force a charger plug into the tool.
- ◆ DO NOT modify the charger plug of a non-compatible charger in any way to fit into the tool as the battery may rupture causing serious personal injury.
- ◆ DO NOT charge or use the battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.  
Inserting or removing the charger plug from the tool may ignite the dust or fumes.
- ◆ Only charge the battery with the provided charge lead and a suitable class 2 power supply.
- ◆ DO NOT splash or immerse in water.
- ◆ DO NOT allow water or any liquid to enter tool.
- ◆ DO NOT store or use the tool in locations where the temperature may reach or exceed 104 °F (40 °C) (such as outside sheds or metal buildings in summer). For best life store tools in a cool, dry location.
- ◆ Do not store the tool with the switch locked on. Never tape the switch in the ON position.
- ◆ DO NOT incinerate the tool even if it is severely damaged or is completely worn out. The battery can explode in a fire. Toxic fumes and materials are created when lithium-ion batteries are burned.
- ◆ If battery contents come into contact with the skin, immediately wash area with mild soap and water. If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte is composed of a mixture of liquid organic carbonates and lithium salts.

- ◆ Contents of opened battery cells may cause respiratory irritation. Provide fresh air. If symptoms persist, seek medical attention.
- ◆ Battery liquid may be flammable if exposed to spark or flame.
- ◆ Never attempt to open the tool for any reason. If the tool case is cracked or damaged, do not charge. Do not crush, drop or damage the tool.  
Do not use a tool or charger that has received a sharp blow, been dropped, run over or damaged in any way (e.g., pierced with a nail, hit with a hammer, stepped on). Damaged tools should be returned to the service center for recycling.

### Storage recommendations

**The best storage place is one that is cool and dry, away from direct sunlight and excess heat or cold.**

**Store the fully charged tool disconnected from the charger.**

### Transportation

**Note: Integral Li-ion tools should not be put in checked baggage on airplanes and must be properly protected from short circuits if they are in carry-on baggage.**

### Important safety instructions for all integral battery charging

**Warning!** Read all safety warnings, instructions, and cautionary markings for the battery, charging cable and product. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

- ◆ The provided charging cable is not intended for any uses other than charging BLACK+DECKER rechargeable tools with micro charging ports. Charging other types of tools may cause their batteries to overheat and burst, resulting in personal injury, property damage, fire, electric shock or electrocution.
- ◆ DO NOT expose charging cable to water, rain or snow.
- ◆ Pull by the plugs rather than the cord when disconnecting the charging cable. This will reduce the risk of damage to the plugs and cord.
- ◆ Make sure that the cord is located so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.
- ◆ When charging the tool outdoors, always provide a dry location.
- ◆ DO NOT use a charging cable with a damaged cord or plugs. Have them replaced immediately.
- ◆ Foreign materials of a conductive nature, such as, but not limited to, grinding dust, metal chips, steel wool, aluminum foil or any buildup of metallic particles should be kept away from the charging and micro charging plugs and port.
- ◆ Always unplug the charging cable from the power supply when there is no tool attached to it.

### Electrical safety



Your charger is double insulated; therefore no earth wire is required. Always check that the mains voltage corresponds to the voltage on the rating plate. Never attempt to replace the charger unit with a regular mains plug.

- ◆ If the supply cord is damaged, it must be replaced by the manufacturer or an authorised BLACK+DECKER Service Centre in order to avoid a hazard.

**Warning!** Never attempt to replace the charger unit with a regular mains plug.

### Features

This tool includes some or all of the following features:

1. Variable speed switch
2. Forward/reverse slider
3. Torque adjustment collar
4. Keyless chuck
5. Charger
- 5a. Charging port
- 5b. Charging indicator (not visible till plugged in)
6. Dual Range Gearing
7. LED work Light\*

### Charging the battery (fig. A)

The integral battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before. The battery may become warm while charging; this is normal and does not indicate a problem.

**Warning!** Do not charge the battery at ambient temperatures below 10 °C or above 40 °C. Recommended charging temperature: approx. 24 °C.

**Note:** The charger will not charge a battery if the cell temperature is below approximately 10 °C or above 40 °C. The integral battery should be left connected to the charger and the charger will begin to charge automatically when the cell temperature warms up or cools down.

- ◆ Insert the charging connector (5) into the charging port (5a).
- ◆ Plug in the charging connector (5).
- ◆ Leave the tool connected to the charger for around 4 hours.
- ◆ The charging indicator (5b) will illuminate during charging.

### Operating Instructions

#### Trigger switch & reversing button (fig. B, C)


- ◆ The drill is turned ON and OFF by pulling and releasing the trigger switch (1).  
The farther the trigger is depressed, the higher the speed of the drill operates at.

- ◆ A forward/reverse control button (2) determines the direction of the tool and also serves as a lock off button.
- ◆ To select forward rotation, release the trigger switch and depress the forward/reverse control button to the left.
- ◆ To select reverse, depress the forward/ reverse control button the opposite direction.
- ◆ To lock the tool, set the forward/reverse slider into the centre position.

**Note:** The center position of the control button locks the tool in the off position. When changing the position of the control button, be sure the trigger is released.

### Torque control (fig. D)

This tool is fitted with a torque adjustment collar (3) to select the operating mode and to set the torque for tightening screws. Large screws and hard workpiece materials require a higher torque setting than small screws and soft workpiece materials.

- ◆ For drilling, set the collar to the drilling position symbol 
- ◆ For screwdriving, set the collar to the desired setting. If you do not yet know the appropriate setting, proceed as follows:
  - ◆ Set the collar to the lowest torque setting.
  - ◆ Tighten the first screw.
  - ◆ If the clutch ratchets before the desired result is achieved, increase the collar setting and continue tightening the screw. Repeat until you reach the correct setting. Use this setting for the remaining screws.

### Keyless chuck (fig. E)

**Warning!** Make certain the lock-off button is engaged to prevent switch actuation before installing or removing accessories.

To insert a drill bit or other accessory:

- ◆ Grasp the rear half of the chuck (8) with one hand and use your other hand to rotate the front half (9) in the counterclockwise direction, as viewed from the chuck end.
- ◆ Insert the bit or other accessory fully into the chuck, and tighten securely by holding the rear half of the chuck and rotating the front portion in the clockwise direction as viewed from the chuck end.

**Warning!** Do not attempt to tighten drill bits (or any other accessory) by gripping the front part of the chuck and turning the tool on. Damage to the chuck and personal injury may occur when changing accessories.

### Dual range gearing (Fig. F)

The dual range feature of your drill allows you to shift gears for greater versatility. To select low speed, high torque setting (position 1), turn tool off and permit to stop. Slide gear shifter button (6) away from the chuck.

To select the high speed, low torque setting (position 2), turn tool off and permit to stop.

Slide gear shifter button towards the chuck.

**Note:** Do not change gears when tool is running. If you are having trouble changing gears, make sure that the dual range gear button is either completely pushed forward or completely pushed back

### Drilling/screwdriving (fig. C)

- ◆ Select forward or reverse rotation using the forward/ reverse slider (2).
- ◆ To switch the tool on, press the switch (1).  
The tool speed depends on how far you press the switch.
- ◆ To switch the tool off, release the switch.

### Hints for optimum use

#### Drilling

- ◆ Use sharp drill bits only.
- ◆ Support and secure work properly, as instructed in the Safety instructions.
- ◆ Use appropriate and required safety equipment, as instructed in the Safety instructions.
- ◆ Secure and maintain work area, as instructed in the Safety instructions.
- ◆ Run the drill very slowly, using light pressure, until the hole is started enough to keep the drill bit from slipping out of it.
- ◆ Apply pressure in a straight line with the bit. Use enough pressure to keep the bit biting but not so much as to stall the motor or deflect the bit.
- ◆ Hold the drill firmly with two hands to control its twisting action.
- ◆ DO NOT CLICK THE TRIGGER OF A STALLED DRILL OFF AND ON IN AN ATTEMPT TO START IT. DAMAGE TO THE DRILL CAN RESULT
- ◆ Minimize stalling on breakthrough by reducing pressure and slowly drilling through the last part of the hole.
- ◆ Keep the motor running while pulling the bit out of a drilled hole. This will help reduce jamming.
- ◆ Make sure switch turns drill on and off.

#### Drilling in wood

Holes in wood can be made with the same twist drill bits used for metal or with spade bits. These bits should be sharp and should be pulled out frequently when drilling to clear chips from the flutes.

#### Drilling in metal

Use a cutting lubricant when drilling metals. The exceptions are cast iron and brass which should be drilled dry. The cutting lubricant that work best are sulfurized cutting oil or lard oil

#### Drilling in masonry

For drilling in masonry, set the collar (3) to the hammer drilling position by aligning the symbol with the marking.



Slide the speed selector (6) towards the front of the tool (2nd gear).

Further information is available at [www.2helpU.com](http://www.2helpU.com)

## Screwdriving

- ◆ Always use the correct type and size of screwdriver bit.
- ◆ If screws are difficult to tighten, try applying a small amount of washing liquid or soap as a lubricant.
- ◆ Always hold the tool and screwdriver bit in a straight line with the screw.

## Troubleshooting

Problem	Possible cause	Possible solution
Unit will not start.	Battery not charged.	Check battery charging requirements
Battery will not charge.	Charger not plugged in.  Surrounding air temperature too hot or too cold.	Plug charger into a working outlet.  Move charger to a surrounding air temperature of above 40 degrees F (45°C) or below 105 degrees F (+40.5°C)
Unit shuts off abruptly.	Battery has reached its maximum thermal limit.  Out of charge. (To maximize the life of the battery it is designed to shut off abruptly when the charge is depleted)	Allow battery to cool down.  Place on charger and allow to charge.

## Maintenance

Your BLACK+DECKER tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

Your charger does not require any maintenance apart from regular cleaning.

**Warning!** Before performing any cleaning or maintenance on the tool, unplug the charger.

- ◆ Regularly clean the ventilation slots in your tool using a soft brush or dry cloth.
- ◆ Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.

## Protecting the environment



Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions.

## Technical data

REVHD12C H1		
Voltage	$V_{DC}$	12
No-load speed	$\text{min}^{-1}$	0-350 / 0-1350 /min (RPM)
Max. torque	Nm	17.5/40
Chuck capacity	mm	1-10
Max Drilling capacity		
Steel/Wood/Masonry	mm	10 / 25 / 10
Weight	kg	1.0

Integral Battery		
Battery type		Li-Ion
Ah rating		1.5

Charger		
Input Voltage	$V_{AC}$	230
Output voltage	$V_{DC}$	10.8
Current	mA	400mA
Approx. charge time	h	4

Level of sound pressure according to EN 62841:
Sound pressure ( $L_{pA}$ ) 84, uncertainty (K) 5 dB(A)
Sound power ( $L_{WA}$ ) 95 dB(A), uncertainty (K) 5 dB(A)

Vibration total values (triax vector sum) according to EN 62841:
Drilling metal ( $a_{Hv}$ ) 0.9 $\text{m/s}^2$ , uncertainty (K) 1.5 $\text{m/s}^2$
Hammer drilling into concrete ( $a_{Hv}$ ) 17.1 $\text{m/s}^2$ , uncertainty (K) 1.5 $\text{m/s}^2$

## Declaration of conformity The Supply of Machinery (Safety) Regulations 2008



REVHD12C Impact Drill

Black & Decker declares that these products described under "technical data" are in compliance with:

The Supply of Machinery (Safety) Regulations, 2008, S.I. 2008/1597 (as amended),  
EN62841-1:2015, EN62841-2-1:2018+A11:2019.

These products also conform to the following UK Regulations:  
Electromagnetic Compatibility Regulations, 2016,  
S.I.2016/1091 (as amended).

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, S.I. 2012/3032 (as amended).

For more information, please contact Black & Decker at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of Black & Decker.



Ed Higgins  
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30/03/2022

This guarantee is in addition to and in no way prejudices your statutory rights. The guarantee is valid within the territories of the Member States of the European Union, European Free Trade area and the United Kingdom.

To claim on the guarantee, the claim must be in accordance with Black & Decker Terms and Conditions and you will need to submit proof of purchase to the seller or an authorised repair agent.

Terms and conditions of the Black & Decker 2 year guarantee and the location of your nearest authorised repair agent can be obtained on the Internet at [www.2helpU.com](http://www.2helpU.com), or by contacting your local Black & Decker office at the address indicated in this manual.

Please visit our website [www.blackanddecker.co.uk](http://www.blackanddecker.co.uk) to register your new Black & Decker product and receive updates on new products and special offers.

## EC declaration of conformity

MACHINERY DIRECTIVE



REVHD12C Impact Drill

Black & Decker declares that these products described under "technical data" are in compliance with:  
EN62841-1:2015, EN62841-2-1:2018+A11:2019.

These products also comply with Directive 2006/42/EC, 2014/30/EU and 2011/65/EU. For more information, please contact Black & Decker at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of

Black & Decker .



Patrick Diepenbach  
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Black and Decker,  
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2800 Mechelen, Belgium  
30/03/2022

## Guarantee

Black & Decker is confident of the quality of its products and offers consumers a 24 month guarantee from the date of purchase.



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