



SCM 22-A

English

SCM 22-A

Original operating instructions

1 Information about the documentation

1.1 About this documentation

- Read this documentation before initial operation or use. This is a prerequisite for safe, trouble-free handling and use of the product.
- Observe the safety instructions and warnings in this documentation and on the product.
- Always keep the operating instructions with the product and make sure that the operating instructions are with the product when it is given to other persons.

1.2 Explanation of symbols used

1.2.1 Warnings

Warnings alert persons to hazards that occur when handling or using the product. The following signal words are used:



DANGER !

- ▶ Draws attention to imminent danger that will lead to serious personal injury or fatality.



WARNING !

- ▶ Draws attention to a potential threat of danger that can lead to serious injury or fatality.



CAUTION !

- ▶ Draws attention to a potentially dangerous situation that could lead to slight personal injury or damage to the equipment or other property.

1.2.2 Symbols in the documentation

The following symbols are used in this document:

	Read the operating instructions before use.
	Instructions for use and other useful information
	Dealing with recyclable materials
	Do not dispose of electric equipment and batteries as household waste

1.2.3 Symbols in the illustrations

The following symbols are used in illustrations:

	These numbers refer to the corresponding illustrations found at the beginning of these operating instructions
	The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text
	Item reference numbers are used in the overview illustrations and refer to the numbers used in the product overview section
	This symbol is intended to draw special attention to certain points when handling the product.

1.3 Product-dependent symbols

1.3.1 Symbols

The following symbols can be used on the product:

n_0	Rated speed under no load
	Direct current (DC)
RPM	Revolutions per minute
\varnothing	Diameter
	Saw blade
	Wireless data transfer
Li-ion	Li-ion battery
	HilTi Li-ion battery type series used. Observe the information given in the section headed Intended use .

1.4 Product information

products are designed for professional users and only trained, authorized personnel are permitted to operate, service and maintain the products. This personnel must be specifically informed about the possible hazards. The product and its ancillary equipment can present hazards if used incorrectly by untrained personnel or if used not in accordance with the intended use.

The type designation and serial number are printed on the rating plate.

- ▶ Write down the serial number in the table below. You will be required to state the product details when contacting HilTi Service or your local HilTi organization to inquire about the product.

Product information

Type:	SCM 22-A
Generation:	01
Serial no.:	

1.5 Declaration of conformity

We declare, on our sole responsibility, that the product described here complies with the applicable directives and standards. A copy of the declaration of conformity can be found at the end of this documentation.

The technical documentation is filed here:

HilTi Entwicklungsgesellschaft mbH | Tool Certification | Hiltistrasse 6 | 86916 Kaufering, Germany

2 Safety

2.1 General power tool safety warnings

⚠ 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.

Work area safety

- ▶ **Keep work area clean and well lit.** Cluttered or 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.
- ▶ **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

- ▶ **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.

- ▶ **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.
- ▶ **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 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.
- ▶ **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.
- ▶ **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.

Personal safety

- ▶ **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.
- ▶ **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- ▶ **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.
- ▶ **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.
- ▶ **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- ▶ **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.
- ▶ **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.
- ▶ **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.

Power tool use and care

- ▶ **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.
- ▶ **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.
- ▶ **Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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.
- ▶ **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.
- ▶ **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 tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- ▶ **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- ▶ **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.
- ▶ **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.

Battery tool use and care

- ▶ **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.
- ▶ **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

- ▶ **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.
- ▶ **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.
- ▶ **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.
- ▶ **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130° C (265 °F) may cause explosion.
- ▶ **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.

Service

- ▶ **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.
- ▶ **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

2.2 Safety instructions for all saws

Cutting procedures

- ▶ **⚠ DANGER: Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle or motor housing.** If both hands are holding the saw, they cannot be cut by the blade.
- ▶ **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- ▶ **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade teeth should be visible below the workpiece.
- ▶ **Never hold the workpiece in your hands or across your leg while cutting. Secure the workpiece to a stable platform.** It is important to support the work properly to minimise body exposure, blade binding, or loss of control.
- ▶ **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- ▶ **When ripping, always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.
- ▶ **Always use blades with correct size and shape (diamond versus round) of arbour holes.** Blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.
- ▶ **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

Kickback causes and related warnings

- kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- when the blade is pinched or jammed tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- ▶ **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- ▶ **When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.** Investigate and take corrective actions to eliminate the cause of blade binding.

- ▶ **When restarting a saw in the workpiece, centre the saw blade in the kerf so that the saw teeth are not engaged into the material.** If a saw blade binds, it may walk up or kickback from the workpiece as the saw is restarted.
- ▶ **Support large panels to minimise the risk of blade pinching and kickback.** Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- ▶ **Do not use dull or damaged blades.** Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- ▶ **Blade depth and bevel adjusting locking levers must be tight and secure before making the cut.** If blade adjustment shifts while cutting, it may cause binding and kickback.
- ▶ **Use extra caution when sawing into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.

Lower guard function

- ▶ **Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- ▶ **Check the operation of the guard return spring. If the guard and the spring are not operating properly, they must be serviced before use.** Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- ▶ **The lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise the lower guard by the retracting handle and as soon as the blade enters the material, the lower guard must be released.** For all other sawing, the lower guard should operate automatically.
- ▶ **Always observe that the lower guard is covering the blade before placing the saw down on bench or floor.** An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

2.3 Additional safety instructions

Personal safety

- ▶ **Modification of the power tool is not permitted.**
- ▶ **Wear ear protectors.** Exposure to noise can cause hearing loss.
- ▶ **Operate the tool only together with the safety devices that belong to it.**
- ▶ **Improve the blood circulation in your fingers by relaxing your hands and exercising your fingers during breaks between working.**
- ▶ **The power tool is not intended for use by inexperienced persons who have received no special training.**
- ▶ **Keep the power tool out of reach of children.**
- ▶ **Do not switch the product on before it is at the workplace.**
- ▶ **Remove the battery before storing or transporting the power tool.**
- ▶ **Do not work overhead with the product.**
- ▶ **Do not attempt to brake the product by applying lateral pressure to the saw blade.**
- ▶ **Do not touch the clamping flange or the clamping screw while the power tool is running.**
- ▶ **Never press the drive spindle lock button while the saw blade is rotating.**
- ▶ **Never direct the power tool toward persons.**
- ▶ **Adjust the pressure applied to the saw blade and the material being cut so that the blade does not stall, possibly causing kickback.**
- ▶ **Metal chips / cuttings are sharp and may cause injury. Keep your clothing closed so that no metal chips or cuttings can find their way into your gloves, footwear or any other part of your clothing.**
- ▶ **Pay attention to where the metal cuttings are flying. The cuttings are hot and could cause a fire or injuries such as burns or cuts.**
- ▶ **Avoid overheating the tips of the saw blade teeth.**
- ▶ **Observe the national health and safety requirements.**
- ▶ **To reduce the risk of injury, use only genuine Hilti accessories and accessory tools.**
- ▶ **Dust from materials, such as paint containing lead, some wood species, concrete / masonry / stone containing silica, and minerals as well as metal, may be harmful. Contact with or inhalation of the dust may cause allergic reactions and/or respiratory or other diseases to the operator or bystanders. Certain kinds of dust are classified as carcinogenic such as oak and beech dust, especially in conjunction with**

additives for wood conditioning (chromate, wood preservative). Material containing asbestos may be handled only by specialists. **Use a dust removal system whenever possible. To achieve a high level of dust collection, use a suitable vacuum cleaner. When indicated, wear a respirator appropriate for the type of dust generated. Ensure that the workplace is well ventilated. Follow national requirements for the materials you want to work with.**

Electrical safety

- ▶ **Before beginning work, check the working area (e.g. using a metal detector) to ensure that no concealed electric cables or gas and water pipes are present.** External metal parts of the power tool may become live, for example, when an electric cable is damaged accidentally. This presents a serious risk of electric shock.

Careful handling and use of batteries

- ▶ **Observe the special guidelines applicable to the transport, storage and use of lithium-ion batteries.**
- ▶ **Do not expose batteries to high temperatures and keep them away from fire.** There is a risk of explosion.
- ▶ **Do not disassemble, crush or incinerate batteries and do not subject them to temperatures over 80°C (176°F).** This presents a risk of fire, explosion or injury through contact with caustic substances.
- ▶ **Never continue to use or attempt to charge damaged batteries, e.g. batteries with cracks, broken parts, bent or pushed-in / pulled-out contacts).**
- ▶ **Do not use the battery as a power source for other unspecified power tools or appliances.**
- ▶ If the battery is too hot to hold, it may be defective. **In this case, place the power tool in a non-flammable location, well away from flammable materials, where it can be kept under observation and allowed to cool down. Contact Hilti Service after the battery has cooled down.**

2.4 Additional safety instructions for circular saws

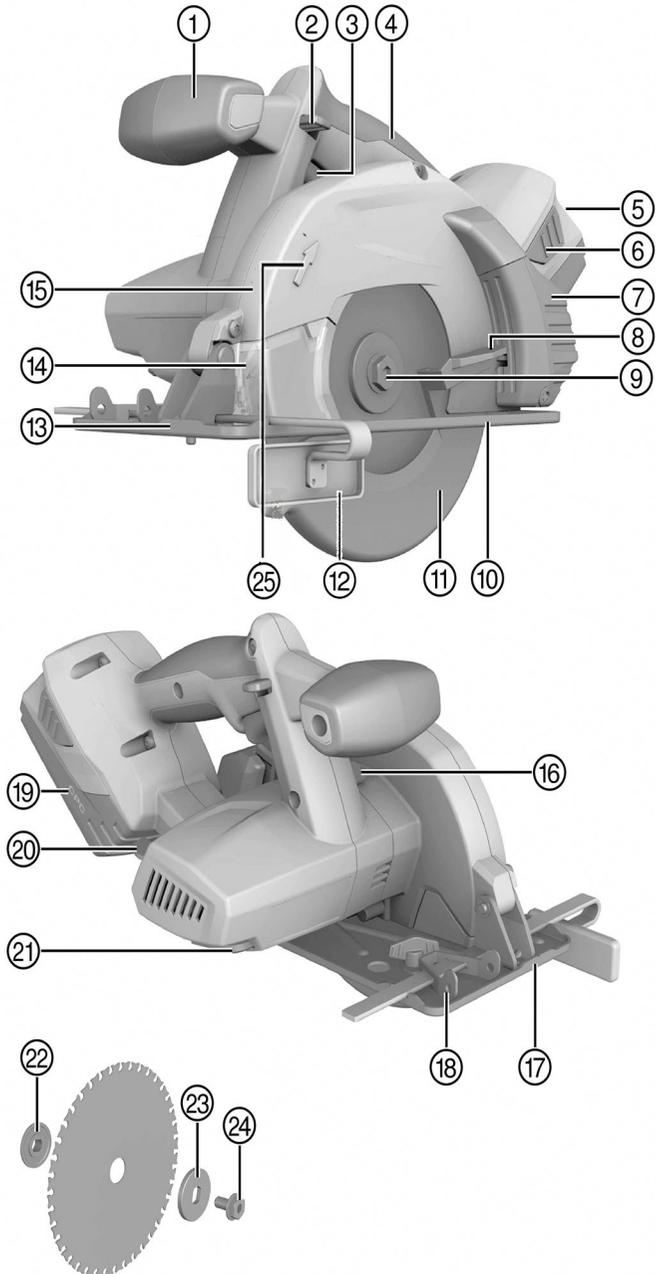
- ▶ Bring the saw blade into contact with the workpiece only when the circular saw is switched on.
 - ↳ The path of the saw must be free of obstructions above and below the workpiece. Do not saw into screws, nails or similar objects.
- ▶ Never work overhead with a circular saw.
- ▶ Never attempt to brake the saw blade by applying lateral pressure.
- ▶ Avoid overheating the tips of the saw blade teeth.
- ▶ Always use a saw blade that is suitable for the material you are going to saw.

2.5 Battery use and care

- ▶ Observe the special regulations and instructions applicable to the transport, storage and use of Li-ion batteries.
- ▶ Do not expose batteries to high temperatures, direct sunlight or fire.
- ▶ Do not disassemble, crush or incinerate batteries and do not subject them to temperatures over 80 °C.
- ▶ Do not use or charge batteries that have suffered mechanical impact, have been dropped from a height or show signs of damage. In this case, always contact your **Hilti Service**.
- ▶ If the battery is too hot to touch it may be defective. In this case, place the product in a non-flammable location, well away from flammable materials, where it can be kept under observation and allowed to cool down. In this case, always contact your **Hilti Service**.

3 Description

3.1 Product overview



- | | | | |
|---|---|---|--|
| ① | Auxiliary grip | ⑭ | LED / viewing window |
| ② | Switch-on interlock release button | ⑮ | Guard |
| ③ | On/off switch | ⑯ | Spindle lock button |
| ④ | Grip | ⑰ | Cutting line indicator |
| ⑤ | Charge-status and fault indicator | ⑱ | Clamp for fence |
| ⑥ | Release button with additional function
(charge status display activation) | ⑲ | Battery |
| ⑦ | Chip collector | ⑳ | Clamping lever for cutting depth adjust-
ment |
| ⑧ | Pivoting guard operating lever | ㉑ | Hex key |
| ⑨ | Arbor | ㉒ | Mounting flange |
| ⑩ | Base plate | ㉓ | Clamping flange |
| ⑪ | Pivoting guard | ㉔ | Clamping screw |
| ⑫ | Fence | ㉕ | Direction-of-rotation arrow |
| ⑬ | Saw blade position indicator | | |

3.2 Intended use

The product described is a cordless circular saw. It is designed for cutting metal or materials similar to metal. The use of saw blades not in compliance with the given specification (e.g. diameter, speed of rotation, thickness) or the use of cutting and grinding discs or blades made from high-alloy steel (HSS steel) is not permissible. Do not use the saw to cut wood or wood-like materials, plastics, gypsum board, gypsum fiberboard and composite materials.

- ▶ Use only **Hilti** Li-ion batteries of the B 22 series with this product.
- ▶ Use only **Hilti** battery chargers of the C4/36 series for charging these batteries.

3.3 Li-ion battery display

The charge status of the Li-ion battery and malfunctions of the power tool are indicated by the display on the Li-ion battery. The charge status of the Li-ion battery is displayed after pressing one of the two battery release buttons.

Status	Meaning
4 LEDs light.	Charge status: 75 % to 100 %
3 LEDs light.	Charge status: 50 % to 75 %
2 LEDs light.	Charge status: 25 % to 50 %
1 LED lights.	Charge status: 10 % to 25 %
1 LED blinks, the power tool is ready for use.	Charge status: < 10 %
1 LED blinks, the power tool is not ready for use.	The battery has overheated or is completely discharged.
4 LEDs blink, the power tool is not ready for use.	The power tool is overloaded or has overheated.



Battery charge status cannot be displayed while the control switch is pressed and for up to 5 seconds after releasing the control switch.

If the battery display LEDs blink, please observe the instructions given in the Troubleshooting section.

3.4 Fence

Use of the single arm fence allows precise cuts to be made along the edge of the workpiece, or strips of even width to be cut.

The fence can be fitted on either side of the base plate.

3.5 Items supplied

Circular saw, saw blade, hex key, fence, operating instructions.



To help ensure safe and reliable operation, use only genuine Hilti spare parts and consumables. Spare parts, consumables and accessories approved by Hilti for use with the product can be found at your local **Hilti Store** or online at: www.hilti.group.

3.6 Accessories

Clamping flange, mounting flange, clamping screw.

4 Technical data

4.1 Circular saw

	SCM 22-A
Rated voltage	21.6 V
Weight in accordance with EPTA procedure 01	4.1 kg
Saw blade diameter	160 mm ... 165 mm
Blade disc thickness	1.2 mm
Kerf width	1.6 mm
Saw blade arbor size	20 mm
Rated speed under no load	3,500 /min
Maximum cutting depth	57 mm
Operating temperature	-10 °C ... 50 °C
Storage temperature	-30 °C ... 70 °C

4.2 Battery

Battery operating voltage	21.6 V
Ambient temperature for operation	-17 °C ... 60 °C
Storage temperature	-20 °C ... 40 °C
Battery charging starting temperature	-10 °C ... 45 °C

4.3 Noise information and vibration values in accordance with EN 62841

The sound pressure and vibration values given in these instructions were measured in accordance with a standardized test and can be used to compare one power tool with another. They can also be used for a preliminary assessment of exposure.

The data given represent the main applications of the power tool. However, if the power tool is used for different applications, with different accessory tools, or is poorly maintained, the data can vary. This can significantly increase exposure over the total working period.

An accurate estimation of exposure should also take into account the times when the tool is switched off, or when it is running but not actually being used for a job. This can significantly reduce exposure over the total working period.

Identify additional safety measures to protect the operator from the effects of noise and/or vibration, for example: maintaining the power tool and accessory tools, keeping the hands warm, organization of work patterns.

Noise emission values

	SCM 22-A
Sound power level (L_{WA})	104 dB(A)
Uncertainty for the sound power level (K_{WA})	3 dB(A)
Sound pressure level (L_{pA})	93 dB(A)
Uncertainty for the sound pressure level (K_{pA})	3 dB(A)

Total vibration

	SCM 22-A
Vibration emission value for sawing in metal ($A_{h, M}$)	0.82 m/s ²
Uncertainty (K)	1.5 m/s ²

5 Operation

5.1 Preparations at the workplace

5.1.1 Charging the battery

1. Before charging the battery, read the operating instructions for the charger.
2. Make sure that the contacts on the battery and the contacts on the charger are clean and dry.
3. Use an approved charger to charge the battery.

5.1.2 Inserting the battery

CAUTION

Risk of injury by short circuit or falling battery!

- ▶ Before inserting the battery, make sure that the contacts on the battery and the contacts on the product are free of foreign matter.
- ▶ Make sure that the battery always engages correctly.

1. Charge the battery fully before using it for the first time.
2. Push the battery into the battery holder until it engages with an audible click.
3. Check that the battery is seated securely.

5.1.3 Removing the battery

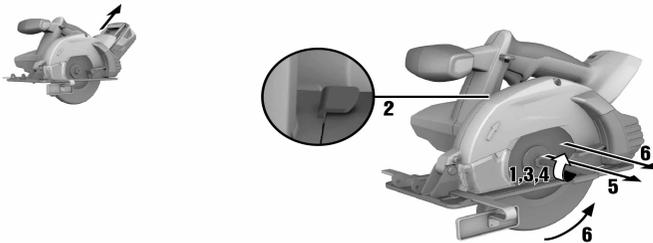
1. Press the release buttons on the battery.
2. Pull the battery out of its holder in the device.

5.1.4 Removing the saw blade

WARNING

Risk of burning injury. A hot accessory tool, clamping flange or clamping screw and the sharp edges of the saw blade present hazards.

- ▶ Wear protective gloves when changing saw blades.



1. Remove the battery.
2. Insert the hex key into the saw blade clamping screw.
3. Press the spindle lockbutton and hold it in this position.
4. Turn the saw blade clamping screw with the hex key until the spindle lock button engages fully.
5. Release the clamping screw by turning the hex key in the direction of the direction-of-rotation arrow.
6. Remove the clamping screw from the outer clamping flange.
7. Open the pivoting guard by swinging it to the side and then remove the saw blade.



If necessary, the mounting flange can be removed for cleaning.

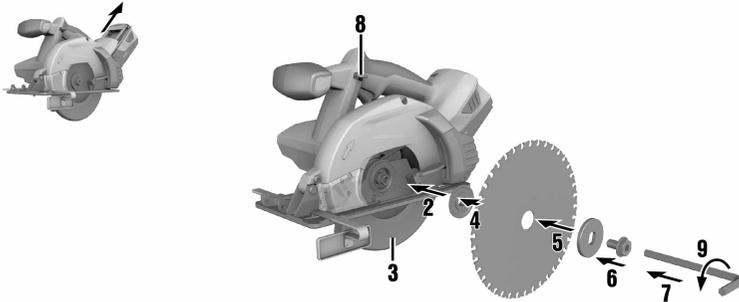
5.1.5 Fitting the saw blade

CAUTION

Risk of damage! Unsuitable or incorrectly fitted saw blades may damage the saw.

- ▶ Only use blades which are suitable for this saw. Observe the direction-of-rotation arrow on the saw blade.
- ▶ Use only saw blades equipped with a rated maximum permissible speed that is at least as high as the maximum speed stated on the product.

Check that the blade to be fitted complies with the technical requirements and that it is well sharpened. A sharp saw blade is an essential requirement for a perfect cut.



1. Clean the mounting flange and the clamping flange.
2. Fit the mounting flange onto the arbor the right way round.
3. Open the pivoting guard.
4. Fit the new saw blade.

Observe the direction-of-rotation arrow on the saw blade and on the power tool. They must correspond.

5. Fit the outer clamping flange the right way round.
6. Insert the clamping screw.
7. Insert the hex key into the saw blade clamping screw.
8. Press the spindle lock button.
9. Secure the clamping flange with the clamping screw by turning the hex key in the direction opposite to the direction-of-rotation arrow.
 - ↳ The spindle lock button engages.
10. Before using the power tool, check that the saw blade is correctly seated and tightened securely.

5.1.6 Adjusting the cutting depth



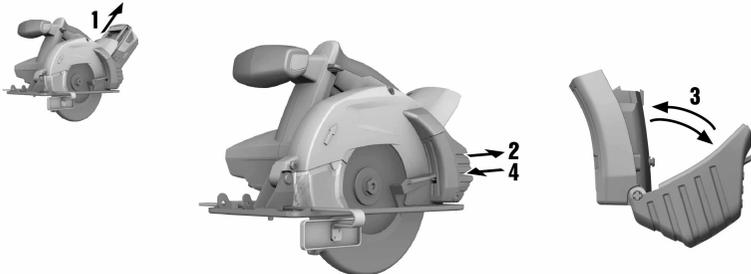
1. Release the cutting depth adjustment clamping lever.
2. Lift the product in a scissor movement and set the desired cutting depth by closing the clamping lever.

5.1.7 Emptying the chip collector

WARNING

Risk of injury! Hot or sharp metal cuttings / chips present a hazard.

- ▶ Wear protective gloves when emptying the chip collector.



1. Remove the battery.
2. Pull the chip collector away from the tool to the rear.
3. Swing the two halves of the chip collector apart and empty out its contents.
4. Push the chip collector onto the guard until in engages in position.

5.2 Work

5.2.1 Switching on

- ▶ While pressing the safety lock, switch the product on by pressing the on/off button.

5.2.2 Switching off

- ▶ Release the on/off switch to stop the machine.

5.2.3 Sawing along a line

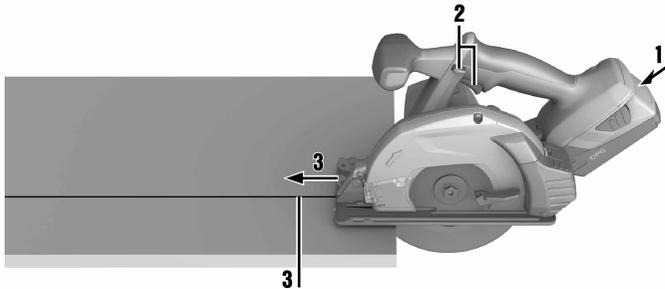


Secure the workpiece to prevent movement.

Position the workpiece so that the saw blade is free to rotate beneath it.

Check to ensure that the on/off switch on the power tool is in the “off” position.

Position the forward section of the saw’s base plate on the workpiece but do not bring the blade into contact with the workpiece.



1. Insert the battery.
2. While pressing the safety lock, switch the product on by pressing the on/off button.
3. Guide the product along the cutting line on the workpiece at a suitable speed.

5.2.4 Procedure if the chip / dust channel is blocked

1. Remove the battery.
2. Remove the chip collector.
3. Clean the chip / dust channel.



Remove the saw blade if necessary. → page 12

4. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect operation of the product.

6 Care and maintenance



WARNING

Risk of injury with battery inserted !

- ▶ Always remove the battery before carrying out care and maintenance tasks!

Care and maintenance of the tool

- Carefully remove stubborn dirt.
- Clean the air vents carefully with a dry brush.
- Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as these can attack the plastic parts.

Care of the Li-ion batteries

- Keep the battery free from oil and grease.
- Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as these may attack the plastic parts.
- Avoid ingress of moisture.

Maintenance

- Check all visible parts and controls for signs of damage at regular intervals and make sure that they all function correctly.
- Do not operate the product if signs of damage are found or if parts malfunction. Have it repaired immediately by **Hilti** Service.

- After cleaning and maintenance, fit all guards or protective devices and check that they function correctly.

i To help ensure safe and reliable operation, use only genuine Hilti spare parts and consumables. Spare parts, consumables and accessories approved by Hilti for use with the product can be found at your local **Hilti Store** or online at: www.hilti.group.

6.1 Cleaning the dust shield

- ▶ Clean the dust shield on the chuck with a dry, clean cloth at regular intervals.
- ▶ Clean the sealing lip by wiping it carefully and then grease it again lightly with **Hilti** grease.
- ▶ It is essential that the dust shield is replaced if the sealing lip is damaged.

6.2 Checks after cleaning and maintenance

i After cleaning or maintenance, check that all safety devices are fitted and that they function faultlessly.

- ▶ To check the pivoting guard, open the guard fully by moving the guard operating lever.
 - ↳ The pivoting guard must close quickly and completely when the guard operating lever is released.

7 Transport and storage of cordless tools

Transport

⚠ CAUTION

Accidental starting during transport !

- ▶ Always transport your products with the batteries removed!

- ▶ Remove the battery.
- ▶ Never transport batteries in bulk form (loose, unprotected).
- ▶ Check the tool and batteries for damage before use after long periods of transport.

Storage

⚠ CAUTION

Accidental damage caused by defective or leaking batteries !

- ▶ Always store your products with the batteries removed!
- ▶ Store the tool and batteries in a place that is as cool and dry as possible.
- ▶ Never store batteries in direct sunlight, on heating units or behind a window pane.
- ▶ Store the tool and batteries in a place where they cannot be accessed by children or unauthorized persons.
- ▶ Check the tool and batteries for damage before use after long periods of storage.

8 Troubleshooting

- ▶ If the trouble you are experiencing is not listed in this table or you are unable to remedy the problem by yourself, please contact **Hilti** Service.

8.1 The circular saw is not in working order.

Malfunction	Possible cause	Action to be taken
The LEDs indicate nothing.	The battery is not fully inserted.	▶ Insert the battery.
	The battery is discharged.	▶ Charge the battery.
1 LED blinks.	The battery is discharged.	▶ Charge the battery.
	The battery is too hot or too cold.	▶ Bring the battery to the correct ambient temperature.
4 LEDs blink.	The circular saw was overloaded briefly.	▶ Release the control switch and then press it again.

Malfunction	Possible cause	Action to be taken
4 LEDs blink.	The overheating prevention cut-out has been activated.	▶ Allow the circular saw to cool down to cool down and clean the air vents.

8.2 The circular saw is in working order.

Trouble or fault	Possible cause	Action to be taken
The on/off button cannot be pressed, i.e. the button is locked.	Not a fault (safety function).	▶ Press the safety lock.
Running speed suddenly drops considerably.	The saw blade jams.	▶ Do not tilt the saw blade.
Chips / cuttings are not transported into the chip collector and thus fall onto the base plate.	The chip collector is full.	▶ Empty the chip collector. → page 14
	The chip ejector channel is blocked.	▶ Clean the ejector. → page 15
The saw blade stalls.	Saw advance pressure is too high.	▶ Reduce advance pressure and switch the product back on.
The battery runs down more quickly than usual.	Very low ambient temperature.	▶ Allow the battery to warm up slowly to room temperature.
The battery does not engage with an audible "double click".	The retaining lugs on the battery are dirty.	▶ Clean the retaining lugs and refit the battery.
The circular saw or battery gets very hot.	Electrical fault.	▶ Switch off the circular saw immediately. Remove the battery and keep it under observation. Allow it to cool down. Contact Hilti service.
	The product is overloaded (application limits exceeded).	▶ Pay attention to the power and performance rating of the product before using it, i.e. check its suitability for the job on hand. See "Technical data" section.

9 Disposal

Most of the materials from which **Hilti** tools and appliances are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, your old tools, machines or appliances can be returned to **Hilti** for recycling. Ask **Hilti** Service or your Hilti representative for further information.

Battery disposal

Improper disposal of batteries can result in health hazards from leaking gases or fluids.

- ▶ DO NOT send batteries through the mail!
- ▶ Cover the terminals with a non-conductive material (such as electrical tape) to prevent short circuiting.
- ▶ Dispose of your battery out of the reach of children.
- ▶ Dispose of the battery at your **Hilti Store**, or consult your local governmental garbage disposal or public health and safety resources for disposal instructions.



- ▶ Do not dispose of power tools, electronic equipment or batteries as household waste!

10 RoHS (Restriction of Hazardous Substances)

Click on the link to go to the table of hazardous substances: qr.hilti.com/r4891.

There is a link to the RoHS table, in the form of a QR code, at the end of this document.

11 Manufacturer's warranty

- ▶ Please contact your local **Hilti** representative if you have questions about the warranty conditions.



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Hilti Connect