

**HILTI TE**

**6-22 SDS**

**Plus Rotary**

**Hammer**

# Instruction Manual

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## Information about the documentation

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- 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.





### **Explanation of symbols**

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 personal injury or damage to the equipment or other property. Symbols in the operating instructions The following symbols are used in these operating instructions:

-  Comply with the operating instructions
-  Instructions for use and other useful information










-  Dealing with recyclable materials
-  Do not dispose of electric equipment and batteries as household waste
-  Hilti Li-ion battery
-  Hilti charger

Symbols in illustrations The following symbols are used in illustrations:


- **2** These numbers refer to the illustrations at the beginning of these operating instructions.
- 3 The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text.
- **11** Item reference numbers are used in the overview illustration and refer to the numbers used in the key in the product overview section.
- ! These characters are intended to specifically draw your attention to certain points when handling the product.

## Product-dependent symbols

Symbols on the product The following symbols can be used on the product:

-  The product supports near-field communication (NFC) technology compatible with iOS and Android platforms.
-  Drilling without hammer action
-  Drilling with hammer action (hammer drilling)
-  Chisel positioning
-  Chiseling
-  Forward / reverse
- $n_0$  Rated speed under no load
-  Direct current (DC)
- **Li-ion** Li-ion battery
-  Never use the battery as a striking tool.
-  Do not drop the battery. Never use a battery that has suffered an impact or is damaged in any other way.

## 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

- Rotary hammer SDS-Plus TE 6-22
- Generation 05
- Serial no.

## Declaration of conformity

The manufacturer declares, on his sole responsibility, that the product described here complies with the applicable legislation and standards. A copy of the declaration of conformity can be found at the end of this documentation. The technical documentation is filed here: Tool Certification | Hiltistrasse 6 | D 86916 Kaufering, Germany

## Safety

### 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 and clothing 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.

### **Hammer safety warnings**

- Wear ear protectors. Exposure to noise can cause hearing loss.
- Use auxiliary handles, if supplied with the tool. Loss of control can cause personal injury.
- Hold 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 safety instructions**

Personal safety

- Use the product and accessories only when they are in perfect working order.
- Never tamper with or modify the product or accessories in any way.
- Wear protective gloves when changing accessory tools, because the accessory tool and the chuck get hot during use.
- In accordance with the applications for which it is designed, the product produces a high torque. Always hold the tool with both hands on the grips provided. The user must be prepared for sudden sticking and stalling of the accessory tool.
- Check that the side handle is fitted correctly and tightened securely. Always grip the side handle at its outermost end.
- Working on the material may cause it to splinter. Flying fragments present a risk of injury to the eyes and body. Wear eye protection, a hard hat and ear protection while the product is in use. In addition, wear light respiratory protection if you are not using a dust extractor.
- Apply appropriate safety measures at the opposite side of the workpiece in work that involves breaking through. Parts

breaking away could fall out and / or fall down causing injury to other persons.

- When chiseling into ceilings, walls and floors, always make sure that you have a safe and firm stance. A sudden break-through can affect your balance.
- Do not touch rotating parts – risk of injury!
- Keep the air vents clear at all times. Risk of burn injuries due to blocked air vents!
- Switch the product on only after you have brought it to the working position.
- Do not work in an environment heavily contaminated with dust.
- Dust produced by grinding, sanding, cutting and drilling can contain dangerous chemicals. Some examples are: lead or lead-based paints; brick, concrete and other masonry products, natural stone and other products containing silicates; certain types of wood, such as oak, beech and chemically treated wood; asbestos or materials that contain asbestos. Determine the exposure of the operator and bystanders by means of the hazard classification of the materials to be worked. Implement the

necessary measures to restrict exposure to a safe level, for example by the use of a dust collection system or by the wearing of suitable respiratory protection. The general measures for reducing exposure include:

- working in an area that is well ventilated,
  - avoidance of prolonged contact with dust,
  - directing dust away from the face and body,
  - wearing protective clothing and washing exposed areas of the skin with water and soap.
- Take frequent breaks and do physical exercises to improve the blood circulation in your fingers. High vibration during long periods of work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.
  - Do not look directly into the light source (LEDs) of the power tool and do not aim the beam at other persons' faces. Risk of dazzling or eye damage.
  - Prevent ingress of moisture. A short circuit caused by moisture can result in fire or burn injuries.

- Risk of injury by falling tools and/or accessories. Before starting work, check that the battery and installed accessories are secure.
- Do not attach a belt hook to this product.

### Electrical safety

- Before beginning work, check the working area for concealed electric cables or gas and water pipes. External metal parts of the product could give you an electric shock or cause an explosion if you accidentally damage an electric cable or a gas or water pipe.

### Power tool use and care

- Switch the product off immediately if the accessory tool jams.  
The product might twist off-line.
- Wait until the product stops completely before you lay it down.

### **Battery use and care**

- Comply with the following safety instructions for the safe handling and use of Li-ion batteries. Failure to comply can lead to skin irritation, severe corrosive injury, chemical burns, fire and/or explosion.

- Use only batteries that are in perfect working order.
- Treat batteries with care in order to avoid damage and prevent leakage of fluids that are extremely harmful to health!
- Do not under any circumstances modify or tamper with batteries!
- Do not disassemble, crush or incinerate batteries and do not subject them to temperatures over 80 °C (176 °F).
- Never use or charge a battery that has suffered an impact or been damaged in any other way. Check your batteries regularly for signs of damage.
- Never use recycled or repaired batteries.
- Never use the battery or a battery-operated power tool as a striking tool.
- Never expose batteries to the direct rays of the sun, elevated temperature, sparking, or open flame. This can lead to explosions.
- Do not touch the battery poles with your fingers, tools, jewelry, or other electrically conductive objects. This can damage the battery and also cause material damage and personal injury.

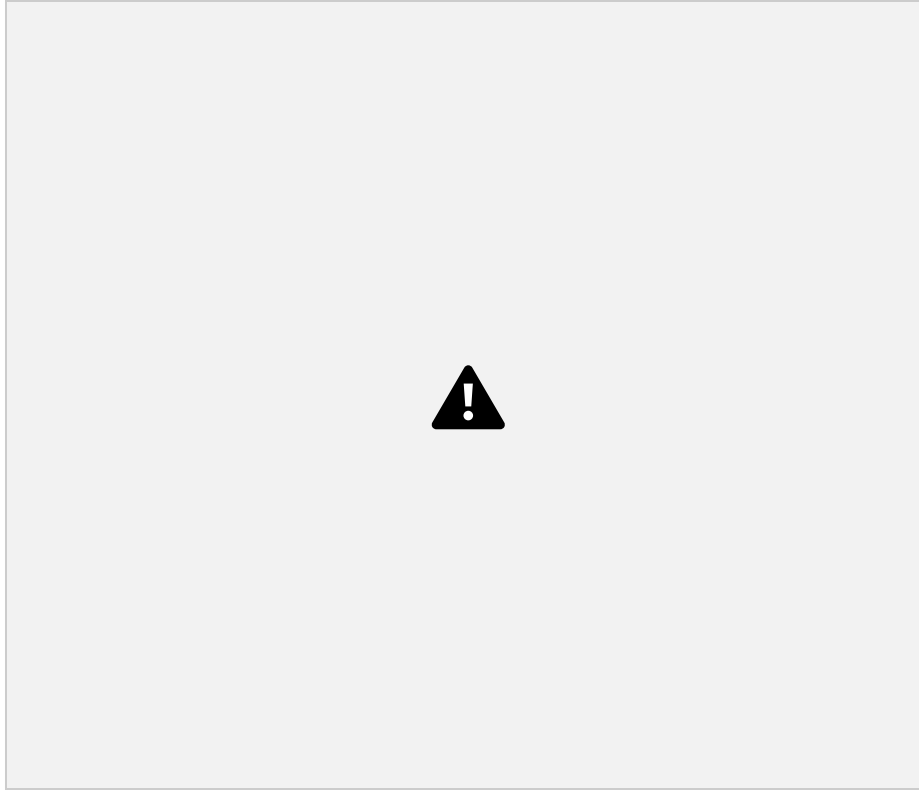
- Keep batteries away from rain, moisture and liquids. Penetrating moisture can cause short circuits, electric shock, burns, fire and explosions.
- Use only chargers and power tools approved for the specific battery type. Read and follow the relevant operating instructions.
- Do not use or store the battery in explosive environments.
- If the battery is too hot to touch, it may be defective. Put the battery in a place where it is clearly visible and where there is no risk of fire, at an adequate distance from flammable materials. Allow the battery to cool down. If it is still too hot to touch after an hour, the battery is faulty. Consult Hilti Service or read the document entitled "Instructions on safety and use for Hilti Li-ion batteries".

Observe the special guidelines applicable to the transport, storage and use of lithium-ion batteries. Read the instructions on safety and use of Hilti Li-ion batteries that you can access by scanning the QR code at the end of these operating instructions.

## **Description**

### **Product overview**

1. Dust cap
2. Chuck (blade holder)
3. Connection for the dust collection module
4. Function selector switch
5. Depth gauge
6. Forward/reverse switch with transport lock
7. Control switch
8. Grip
9. Battery
10. Installation opening for accessories
11. Battery release button
12. Battery status indicator
13. Connection for the TE DRS4/6 (01) dust removal module
14. Side handle
15. Work-area light (LED)



*Figure: 1*

### **Intended use**

The product described is a cordless SDSPlus rotary hammer drill. It is designed for drilling in steel, wood and masonry, for hammer-action drilling in concrete and masonry, and for driving and removing screws. The product can also be used for light chiseling work on masonry and for surface finishing on concrete.

- For this product, use only Hilti Nuron lithium-ion batteries of the B 22 series. For optimum performance, Hilti recommends the batteries stated in the table at the end of these operating instructions for this product.

- For these batteries, use only Hilti chargers of the type series stated in the table at the end of these operating instructions.

### **Items supplied**

SDSPlus rotary hammer drill, side handle, depth gauge, grease, operating instructions. The TE DRS-4/6 (01) dust removal module greatly reduces dust emissions and is available as an accessory. Other system products approved for use with this product can be found at your local Hilti Store or at: [www.hilti.group](http://www.hilti.group)

### **Status indicators of the Li-ion battery**

Hilti Nuron Li-ion batteries can indicate state of charge, fault messages and the battery's state of health. Indicators for state of charge and fault messages **WARNING Risk of injury by a falling battery!**

- If the release button is pressed with a battery inserted in the product, subsequently check that the battery is correctly re-engaged and secure. Short-press the release button of the battery to get whichever of the following status indications is applicable at the time. State of charge and, if applicable, faults are indicated constantly as long as the connected product is switched on.

Status	Meaning
Four (4) LEDs show constantly green	State of charge: 100 % to 71 %
Three (3) LEDs show constantly green	State of charge: 70 % to 51 %
Two (2) LEDs show constantly green	State of charge: 50 % to 26 %
One (1) LED shows constantly green	State of charge: 25 % to 10 %
One (1) LED slow-flashes green	State of charge: < 10 %

<p>One (1) LED quick-flashes green</p>	<p>The Li-ion battery is completely discharged. Recharge the battery. If the LED again starts quick-flashing after the battery has been charged, consult Hilti Service.</p>
<p>One (1) LED quick-flashes yellow</p>	<p>The Li-ion battery or the product in which it is inserted is overloaded, too hot or too cold, or experiencing some other fault. Bring the product and the battery to the recommended working temperature and do not overload the product when it is in use. If the message persists, consult Hilti Service.</p>
<p>One (1) LED shows yellow</p>	<p>The Li-ion battery and the product in which it is inserted are not compatible. Consult Hilti Service.</p>
<p>One (1) LED quick-flashes red</p>	<p>The Li-ion battery is locked and cannot be used. Consult Hilti Service.</p>

Indicators showing the battery's state of health To check the battery's state of health, press the release button and hold it down for longer than three seconds. The system does not detect a potential malfunction of the battery due to misuse, for example battery dropped or pierced, external heat damage, etc

Status	Meaning
All LEDs show in sequence, followed by one (1) LED showing constantly green.	The battery can remain in use.
All LEDs show in sequence, followed by one (1) LED quick-flashing yellow.	The check to ascertain the battery's state of health did not complete. Repeat the procedure, or consult Hilti Service.
All LEDs show in sequence, followed by one (1) LED showing constantly red.	If a connected product can still be used, the re-maining battery capacity is below 50 %. If a connected product can no longer be used, the battery has reached the end of its useful life and has to be replaced. Consult Hilti Service.

## Technical data

Weight in accordance with EPTA Procedure 01, without battery	2.84 kg	
Single impact energy in accordance with EPTA procedure 05	2.6 J	
Drilling diameter range in concrete/masonry (hammer drilling)	4 mm ...	28 mm
Ambient temperature for operation	-17 °C ...	60 °C
Storage temperature	-20 °C ...	70 °C

Battery operating voltage	21.6 V
Weight, battery	See the end of these operating instructions
Ambient temperature for operation	-17 °C ... 60 °C
Storage temperature	-20 °C ... 40 °C
Battery charging starting temperature	-10 °C ... 45 °C

### **Noise information and vibration values in accordance with EN 60745**

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 represents 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

Emission sound pressure level (LPA)	91 dB(A)
Uncertainty for the sound pressure level (KPA)	3 dB(A)
Sound power level (LWA)	102 dB(A)
Uncertainty for the sound power level (KWA)	3 dB(A)

**Total vibration**

		TE 6-22	TE 6-22 + TE DRS-+6 (01)
Hammer drilling in concrete (ah, HD)	B 22-85	10.7 m/s <sup>2</sup>	10.6 m/s <sup>2</sup>
	B 22-170	10.4 m/s <sup>2</sup>	11.3 m/s <sup>2</sup>
Chiseling	B 22-85	6.3 m/s <sup>2</sup>	5.5 m/s <sup>2</sup>

	B 22-170	6.3 m/s <sup>2</sup>	6.0 m/s <sup>2</sup>
Uncertainty (K)		1.5 m/s <sup>2</sup>	1.5 m/s <sup>2</sup>

## Preparations at the workplace

WARNING Risk of injury by inadvertent starting!

- Before inserting the battery, make sure that the product is switched off.
- Remove the battery before making any adjustments to the power tool or before changing accessories

Observe the safety instructions and warnings in this documentation and on the product.

### 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.

### Inserting the battery

## **WARNING 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 product until it engages with an audible click.
  3. Check that the battery is seated securely.

### **Removing the battery**

1. Press the battery release button.
2. Remove the battery from the product.


### **Fitting the side handle**

1. Release the side handle clamping band by turning the handle grip.
2. Slide the side handle clamping band over the chuck from the front and into the recess provided.
3. Bring the side handle into the desired position.

4. Tighten the side handle clamping band by turning the handle grip.



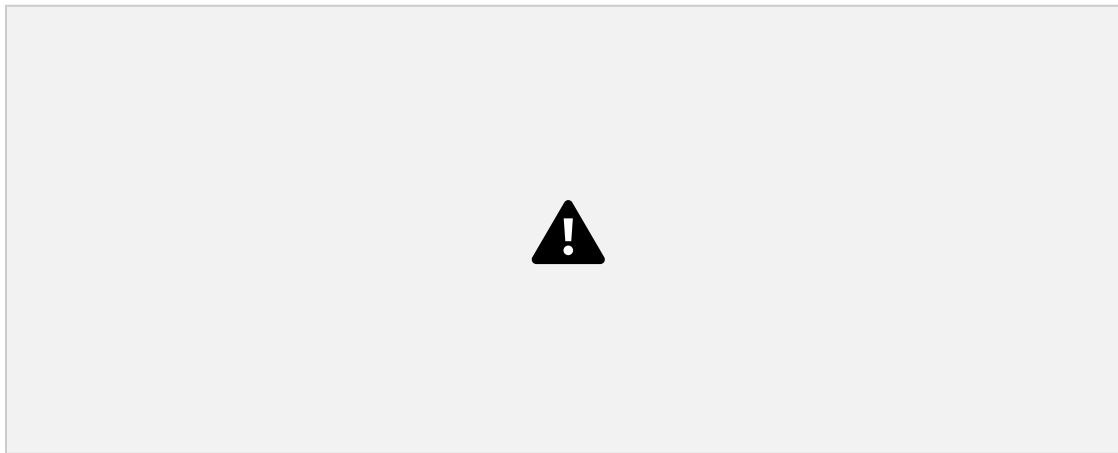
### **Fitting the accessory tool**

 Apply a little grease to the connection end of the accessory tool. Use only the recommended grease supplied by Hilti. Using the wrong grease can result in damage to the product.



1. Push the accessory tool into the chuck as far as it will go, turning it and applying light pressure until it engages with an audible click.
2. After fitting the accessory tool, grip it and pull it in order to check that it is securely engaged. The product is ready for use

### **Removing the accessory tool**



**CAUTION** Risk of injury by the accessory tool! The accessory tool might be hot or have sharp edges. Wear protective gloves when changing the accessory tool.

1. Pull the accessory tool retaining bar back as far as it will go.
2. Remove the accessory tool.

### **Fitting and adjusting the depth gauge**



1. Press and hold down the release button on the side handle.
2. Slide the depth gauge from the front into the opening provided in the side handle. Adjust the depth gauge to the desired drilling depth.
3. Release the release button. The depth gauge is locked.


### **Fall arrest**

**WARNING** Risk of injury by falling tool and/or accessory!

- Use only the Hilti tool tether recommended for your product.
- Prior to each use, always check the attachment point of the tool tether for possible damage.

**i** Comply with the national regulations for working at heights. As drop arrester for this product, use only a combination of the Hilti retaining strap and the Hilti tool tether #2261970.

- Secure the retaining strap to the installation openings for accessories. Check that it holds securely.
- Secure one carabiner of the tool tether to the retaining strap and secure the second carabiner to a load-bearing structure. Check that both carabiners hold securely.

 Comply with the operating instructions of the Hilti retaining strap and those of the Hilti tool tether.

## **Operation**

Observe the safety instructions and warnings in this documentation and on the product.

### **Switching on and off**

1. To switch the product on, press the control switch.
  - Speed can be controlled steplessly by varying how far the control switch is pressed in.
2. To switch the product off, release the control switch.

### **Direction of rotation**





- Set the direction of rotation. The selector switch engages in this position.



## Function switch

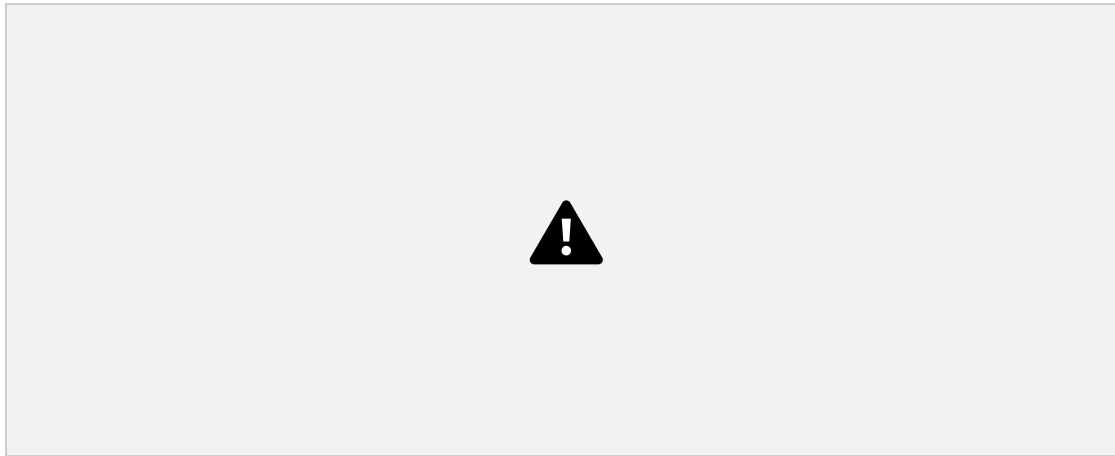
Set the function selector switch to the desired function.



**i** Risk of damage! Do not operate the function selector switch while the motor is running. **Drilling without hammer action** Set the function selector switch to . **Hammer drilling** Set the function selector switch to . **Chisel positioning** Set the function selector switch to . **Chiseling** Set the function selector switch to .

## Optional accessories

## TE DRS<sup>4/6</sup> (01) dust removal module



The TE DRS<sup>4/6</sup> (01) dust removal module is an accessory for the SDSPlus rotary hammer drill. It collects a high percentage of the dust generated and can be quickly and easily attached to the SDSPlus rotary hammer drill. The dust removal module has a built-in extractor fan. This fan is driven by its own motor. When the SDSPlus rotary hammer drill is switched on, the dust removal module draws its power from the battery of the SDSPlus rotary hammer drill. The dust removal module is not suitable for working on metal and wood. The TE DRS-4/6 (01) OSHA satisfies the requirements of OSHA 1926.1153 Table 1. It has a filter-cleaning mechanism.

### **Fitting the dust collection module for overhead work**

1. Insert the accessory tool.
2. Slip the dust collection module over the chuck and engage it in the grooves in the housing of the SDSPlus rotary hammer drill.
3. Turn the dust collection module counter-clockwise to lock it in position.



## Care and maintenance

**WARNING** Risk of injury with battery inserted ! Always remove the battery before carrying out care and maintenance tasks! Care of the product

- Carefully remove stubborn dirt.
- Carefully clean the air vents, if present, with a dry, soft brush.
- Use only a slightly damp cloth to clean the housing. Do not use cleaning agents containing silicone as these can attack the plastic parts.
- Use a dry, clean cloth to clean the contacts of the product.

### Care of the Li-ion batteries

- Never use a battery with clogged air vents. Clean the air vents carefully using a dry, soft brush.

- Avoid unnecessary exposure of the battery to dust and dirt.  
Never expose the battery to high levels of moisture (e.g. by being dipped in water or left in the rain). If a battery has been soaked by moisture, treat it as a damaged battery. Isolate it in a non-flammable container and consult Hilti Service.
- Keep the battery free of extraneous oil and grease. Do not permit dust or dirt to accumulate unnecessarily on the battery. Clean the battery with a dry, soft brush or a clean, dry cloth. Do not use cleaning agents containing silicone as these can attack the plastic parts. Do not touch the contacts of the battery and do not remove the factory applied grease from the contacts.
- Use only a slightly damp cloth to clean the housing. Do not use cleaning agents containing silicone as these can attack the plastic parts.

## Maintenance

- Check all visible parts and controls for signs of damage at regular intervals and make sure that they all function correctly.

- Do not use the product if signs of damage are found or if parts malfunction. Immediately have the product repaired by Hilti Service.
- After cleaning and maintenance, install all guards and protective devices and check that they are in full working order.

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 your product can be found at your Hilti Store or online at: [www.hilti.group](http://www.hilti.group)

### **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.

### **Transport and storage of cordless tools and batteries**

Transport CAUTION Accidental starting during transport ! Always transport your products with the batteries removed!

- Remove the battery/batteries.
- Never transport batteries loose and unprotected. During transport, batteries should be protected from excessive shock and vibration and isolated from any conductive materials or other batteries that may come in contact with the terminals and cause a short circuit. Comply with the locally applicable regulations for transporting batteries.
- Do not send batteries through the mail. Consult your shipper for instructions on how to ship undamaged batteries.
- Prior to each use and before and after prolonged transport, check the product and the batteries for damage.

Storage WARNING Accidental damage caused by defective or leaking batteries ! Always store your products with the batteries removed!



- Store the product and the batteries in a cool and dry place.  
Comply with the temperature limits stated in the technical data.
- Do not store batteries on the charger. Always remove the battery from the charger when the charging operation has completed.



- Never leave batteries in direct sunlight, on sources of heat, or behind glass.
- Store the product and batteries where they cannot be accessed by children or unauthorized persons.
- Prior to each use and before and after prolonged storage, check the product and the batteries for damage.

## Troubleshooting



If a problem occurs, always observe the charge-status and fault indicator of the battery. See the section headed Status indicators of the Li-ion battery. If the trouble you are experiencing is not listed in this table or you are unable to rectify the problem by yourself, contact Hilti Service.

Trouble or fault	Possible cause	Action to be taken
The control switch can't be pressed, i.e. the switch is locked.	The forward / reverse switch is in the middle position.	Push the forward / reverse switch to the right or left.

<p>The drive spindle does not rotate.</p>	<p>The battery is not fully inserted.</p>	<p>Push the battery in until it engages with an audible click.</p>
	<p>The forward / reverse switch is in the middle position</p>	<p>Push the forward / reverse switch to the right or left.</p>
	<p>The function selector switch is not engaged or is in the "Chiseling" position <b>T</b> or the "Chisel positioning" position .</p>	<p>With the motor of the power tool at a complete stop, set the function selector switch to "Drilling without hammering"  or "Hammer drilling" </p>
<p>No hammering action.</p>	<p>Product too cold.</p>	<p>Bring the product into contact with the working surface, switch it on and allow it to idle. If necessary, repeat the</p>

		procedure until the hammering mechanism begins to operate.
	The function switch is set to “Drilling without hammering” 	Set the function switch to “Hammer drilling”  .

The battery runs down more quickly than usual.	Battery condition is not optimal.	Call up the battery’s state of health.
The battery doesn’t engage with an audible click	The retaining lugs on the battery are dirty.	Clean the retaining lug and refit the battery.
LEDs of the battery show nothing	Battery defective	Contact Hilti Service.

<p>Product or battery gets very hot.</p>	<p>Electrical fault</p>	<p>Immediately switch off the product. Remove the battery and keep it under observation. Allow it to cool down. Contact Hilti service</p>
<p>The insert tool can't be released.</p>	<p>The chuck is not pulled back fully</p>	<p>Pull the chuck back as far as it will go and remove the tool.</p>
<p>The tool makes no progress.</p>	<p>Product has been set to reverse rotation The function switch is set to "Drilling without hammering" </p>	<p>Move the forward / reverse switch to the "Forward" position Set the function switch to "Hammer drilling" </p>

**Disposal**

WARNING Risk of injury due to incorrect disposal! Health hazards due to escaping gases or liquids.

- 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.

 Most of the materials from which Hilti products 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 sales representative for further information.  Do not dispose of power tools, electronic equipment or batteries as household waste!