

# HILTI

TE 4-A22

English

en





## 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 may occur when handling or using the product. The following signal words are used in combination with a symbol:

	<b>DANGER!</b> Draws attention to an imminent hazard that will lead to serious personal injury or fatality.
	<b>WARNING!</b> Draws attention to a potential hazard that could lead to serious personal injury or fatality.
	<b>CAUTION!</b> Draws attention to a potentially dangerous situation that could lead to minor personal injury or material damage.

#### 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

#### 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 <b>overview illustration</b> and refer to the numbers used in the key in the <b>product overview</b> 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 on the product

The following symbols are used on the product:

	Drilling without hammering
	Drilling with hammering action (hammer drilling)
	Forward / reverse
	Protection class II (double-insulated)
	Rated speed under no load

### 1.4 Product information

Hilti products are designed for professional use and may be operated, serviced and maintained only by trained, authorized personnel. This personnel must be informed of any particular hazards that may be

encountered. The product and its ancillary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed.

The type designation and serial number are printed on the type identification 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	TE 4-A22
Generation	02
Serial no.	

## 2 Safety

### 2.1 General safety precautions for power tools

**⚠ WARNING! Read all safety precautions and other instructions.** Failure to observe the safety precautions and other instructions may result in electric shock, fire and/or serious injury. Keep all safety precautions and instructions for future reference.

#### Working area safety

- ▶ **Keep your working area clean and well lit.** Cluttered or dark working areas can cause accidents.
- ▶ **Do not operate the power tool 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 bystanders, children and visitors away while operating the power tool.** Distractions may cause you to lose control of the tool.

#### Electrical safety

- ▶ **Do not expose the power tool to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- ▶ **Do not allow your body to come into contact with grounded surfaces such as pipes, radiators, ovens and refrigerators.** There is an increased risk of electric shock if your body is grounded.

#### 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 the power tool may result in serious personal injury.
- ▶ **Adopt the correct posture when working. Maintain proper footing and balance at all times.** This will allow you to control the power tool better, even in unexpected situations.
- ▶ **Wear your personal protective equipment and always wear protective glasses.** Depending on the type of power tool you are using and its purpose, wearing safety equipment such as a dust mask, slip-resistant safety shoes, a hard hat or hearing protection will reduce the risk of injury.
- ▶ **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair may be caught in moving parts.
- ▶ **Avoid starting the tool accidentally. Make sure that the power tool is switched off before connecting it to the battery and before picking it up or carrying it.** Carrying power tools with your finger on the switch or plugging in power tools that are already switched on may cause accidents.
- ▶ **Remove accessory tools or wrenches before switching the power tool on.** An accessory tool or a wrench left attached to a rotating part of the power tool may cause personal injury.
- ▶ **If devices are provided for connecting dust extraction and collection equipment, make sure these are connected and used correctly.** The use of a dust extraction system can reduce dust-related hazards.

#### Using and handling the power tool

- ▶ **Do not overload the tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely within the performance range for which it is designed.
- ▶ **Do not use a power tool if it has a faulty on/off switch.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- ▶ **Remove the battery from the power tool before making any adjustments, changing accessories or storing the tool.** This precaution reduces the risk of the power tool starting accidentally.
- ▶ **Store power tools out of reach of children when not in use. Do not allow persons who are not familiar with the tool or these instructions to operate it.** Power tools are dangerous in the hands of untrained users.

- ▶ **Maintain power tools properly.** Check that moving parts are in correct working order and do not jam, and check whether any parts are broken or so damaged that correct operation of the power tool cannot be guaranteed. If any parts are damaged, have these parts repaired before using the tool. Many accidents are caused by poorly maintained power tools.
- ▶ **Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to jam and are easier to control.

#### Using and handling the cordless power tool

- ▶ **Use only the specified batteries in the power tools.** Use of any other batteries may present a risk of injury and fire.
- ▶ **Recharge the batteries only with the chargers specified by the manufacturer.** A charger that is suitable for a certain type of battery may present a risk of fire when used with other types of battery.
- ▶ **When the battery is not in use, keep it away from other metal objects such as paper clips, coins, keys, nails, screws, or other small metal objects that could cause bridging between the terminals.** A short circuit between the battery terminals may cause burns or a fire.
- ▶ **Liquid may leak from the battery if used incorrectly. Avoid contact with this liquid.** Liquid leaking from the battery may cause skin irritation or burns. If contact accidentally occurs, rinse with water. Seek medical attention if the liquid comes into contact with the eyes.

## 2.2 Additional safety instructions for rotary hammer

### Personal safety

- ▶ Use the product only when it is in technically faultless condition.
- ▶ Never tamper with or modify the power tool in any way.
- ▶ Use the auxiliary grips supplied with the tool. Loss of control can cause personal injury.
- ▶ 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.
- ▶ Always hold the power tool with both hands on the grips provided. Keep the grips clean and dry.
- ▶ Hold the power tool by the insulated gripping surfaces when performing work in which the accessory tool might come into contact with concealed wiring. If the accessory tool comes into contact with a live wire, metal parts of the power tool can also become live, resulting in an electric shock.
- ▶ Avoid touching rotating parts – risk of injury!
- ▶ Wear suitable protective glasses, a hard hat, ear defenders, protective gloves and light respiratory protection while using the power tool.
- ▶ Wear protective gloves also when changing the accessory tool. Touching the accessory tool presents a risk of injury (cuts or burns).
- ▶ Wear eye protection. Flying fragments present a risk of injury to the body and eyes.
- ▶ Before starting work, check the hazard class of the dust that will be produced when working. Use an industrial vacuum cleaner with an officially approved protection class in compliance with the locally applicable dust protection regulations. Dust from materials such as lead-based paint, certain types of wood and concrete/masonry/stone containing quartz, minerals or metal can be harmful to health.
- ▶ Make sure that the workplace is well ventilated and, where necessary, wear a respirator appropriate for the type of dust generated. Contact with or inhalation of the dust can cause allergic reactions and/or respiratory or other diseases to the operator or bystanders. Certain kinds of dust such as oakwood and beechwood dust are classified as carcinogenic, especially in conjunction with additives for wood conditioning (chromate, wood preservative). Only specialists are permitted to handle material containing asbestos.
- ▶ Take breaks and do physical exercises to improve the blood circulation in your fingers. Exposure to vibration during long periods of work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.

### Electrical safety

- ▶ Before beginning work, check the working area for concealed electric cables, gas pipes and water pipes. External metal parts of the power tool can become live, presenting a risk of electric shock, if you accidentally damage an electric cable.

### Power tool use and care

- ▶ Immediately switch off the power tool if the accessory tool jams. The power tool might twist off-line.
- ▶ Wait until the power tool stops completely before you lay it down.

## 2.3 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, direct sunlight or fire.

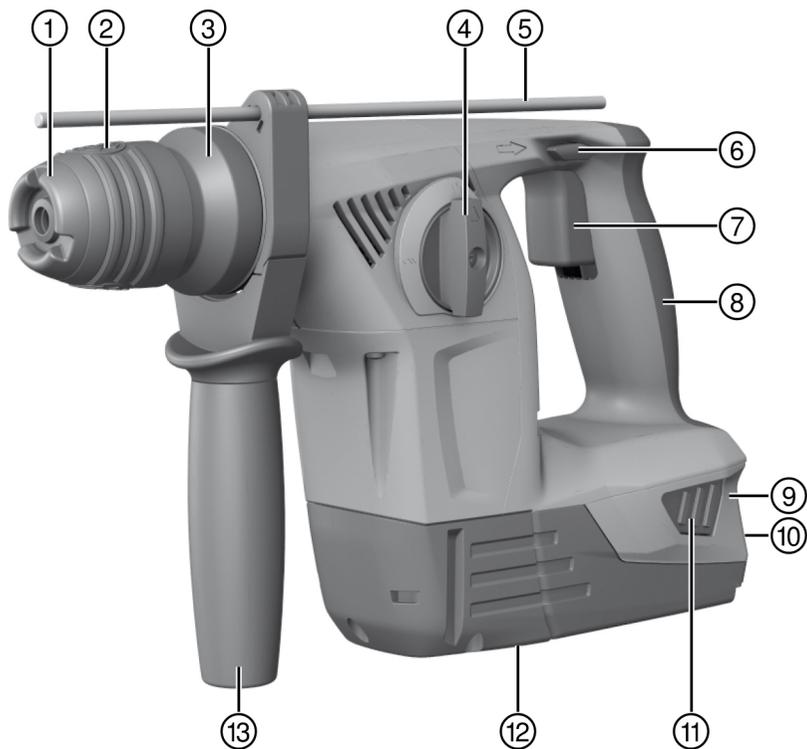
- ▶ Do not take apart, squash or incinerate batteries and do not subject them to temperatures over 80 °C.
- ▶ Do not attempt to charge or continue to use damaged batteries.
- ▶ If the battery is too hot to touch, it may be defective. In this case, place the power tool in a non-flammable location, well away from flammable materials, where it can be kept under observation and left to cool down. Contact **Hilti** Service after the battery has cooled down.





### 3 Description

#### 3.1 Parts, operating controls and indicators



This Product is Certified  
Ce produit est homologué  
Producto homologado por  
Este producto está registrado



- |   |  |   |   |
|---|--|---|---|
| ① | Dust shield  | ⑧ | Grip  |
| ② | Chuck  | ⑨ | Battery   |
| ③ | Accessory tool release                             | ⑩ | Charge state and fault display (Li-ion battery)       |
| ④ | Function selector switch                           | ⑪ | Battery release buttons                               |
| ⑤ | Depth gauge  | ⑫ | Connection for the TE DRS-4-A(01) dust removal module |
| ⑥ | Forward / reverse selector switch with safety lock | ⑬ | Side handle   |
| ⑦ | Control switch                                     |   |   |

### 3.2 Intended use

The product described is a battery-powered rotary hammer. It is designed for hammer drilling in concrete and masonry, for drilling in steel, wood and masonry and for driving and removing screws.

- ▶ Use only **Hilti** lithium-ion batteries of the B 18 / B 22 series with this product.
- ▶ Use only the **Hilti** battery chargers from the C4/36 series for these batteries.

### 3.3 Lithium-ion battery status display

When the lithium-ion battery is used the charge status can be displayed by tapping one of the 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.	• Charge status: < 10 %

Indication of the charge status is not possible while the power tool is in operation or immediately after operation. If the battery charge status LEDs flash, please refer to the information given in the Troubleshooting section.

### 3.4 Items supplied

Rotary hammer, side handle, depth gauge, operating instructions.

The TE DRS-4-A (01) dust removal module is available as an accessory that greatly reduces dust emissions. You can find other system products approved for your product at your local **Hilti** Center or online at: [www.hilti.com](http://www.hilti.com).

## 4 Technical data

### 4.1 Rotary hammer

	TE 4-A22
<b>Weight</b>	7.3 lb (3.3 kg)
<b>Single impact energy</b>	2 J
<b>Drilling diameter range in concrete/masonry (hammer drilling)</b>	13/64 in ...5/8 in
<b>Drilling diameter range in concrete/masonry (hammer drilling)</b>	5 mm ...16 mm
<b>Drilling diameter range in wood (solid)</b>	1/8 in ...25/32 in
<b>Drilling diameter range in wood (solid)</b>	3 mm ...20 mm
<b>Drilling diameter range in metal (solid-head drill bit)</b>	1/8 in ...25/64 in
<b>Drilling diameter range in metal (solid-head drill bit)</b>	3 mm ...10 mm

## 5 Operation

### 5.1 Preparations at the workplace



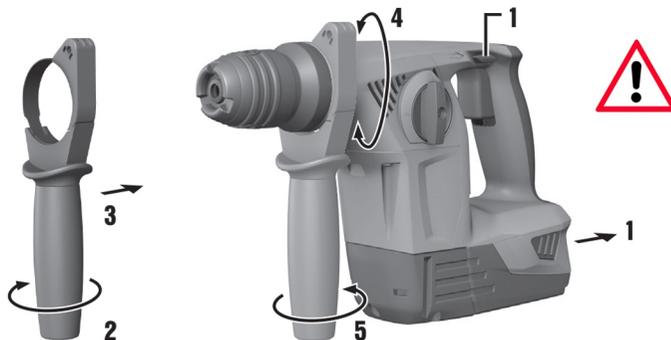
#### CAUTION

**Risk of injury!** Inadvertent starting of the product.

- ▶ 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.

#### 5.1.1 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.

#### 5.1.2 Fitting the battery



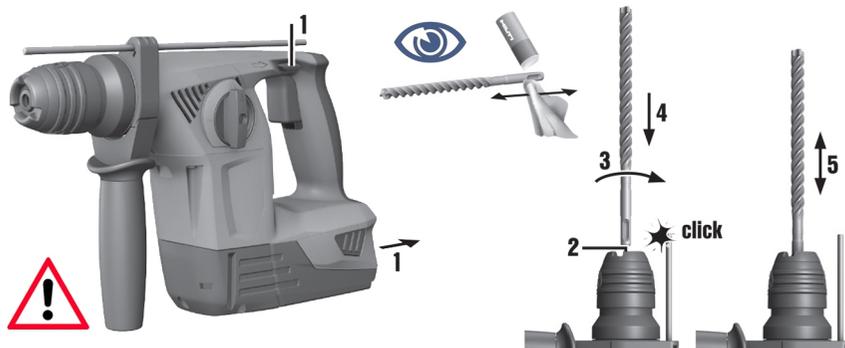
1. Push the battery into the battery interface on the tool until it is heard to engage with a click.
2. Check that the battery is seated securely.

### 5.1.3 Removing the battery



1. Press the release buttons on the battery.
2. Pull the battery out toward the rear.

### 5.1.4 Fitting the accessory tool



1. Apply a little grease to the connection end of the accessory tool.
  - ◀ Use only the recommended grease supplied by Hilti. Use of the wrong grease can result in damage to the tool.
2. Push the accessory tool into the chuck as far as it will go (until it engages).
3. 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.

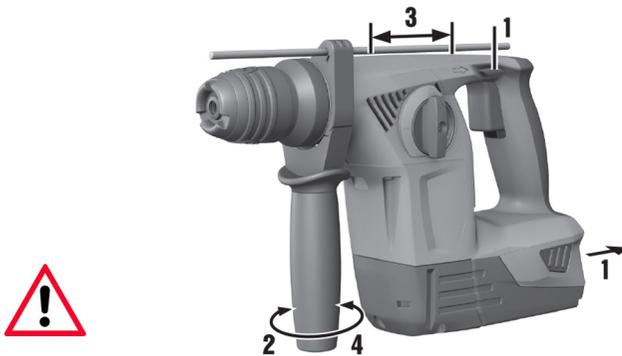
### 5.1.5 Removing the accessory tool

- WARNING**  
**Risk of injury!** The tool becomes hot as a result of use.
- ▶ Wear protective gloves when changing the tool.



- ▶ Pull the chuck back as far as it will go and remove the accessory tool.

### 5.1.6 Fitting the depth gauge (optional)



1. Release the side handle clamping band by turning the handle grip.
2. Slide the depth gauge from the front into the 2 guide holes provided.
3. Tighten the side handle clamping band by turning the handle grip.

## 5.2 Types of work

**Warning!** Risk of damage!

- ▶ Operation of the direction of rotation and/or function selector switch while the tool is running may result in damage to the tool.
- ▶ Do not operate this switch while the tool is running.

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

### 5.2.1 Direction of rotation

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

## 5.2.2 Drilling without hammering



- ▶ Set the function selector switch to this symbol: 

## 5.2.3 Hammer drilling



- ▶ Set the function selector switch to this symbol: 

# 6 Care and maintenance

## 6.1 Care and maintenance of cordless tools



### WARNING

**Danger of electric shock!** Carrying out care and maintenance while the battery is fitted presents a risk of serious physical injury and burning injury.

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

### Care and maintenance of the tool

- Carefully remove any dirt that may be adhering to parts.
- 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 may attack the plastic parts.

### Care of the lithium-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 cordless tool if signs of damage are found or if parts malfunction. Have the tool repaired by **Hilti** Service immediately.
- After cleaning and maintenance, fit all guards or protective devices and check that they function correctly.



### Note

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** Center or online at: [www.hilti.com](http://www.hilti.com)

## 6.2 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.

## 7 Transport and storage

### 7.1 Transport and storage of cordless tools

#### Transport



#### CAUTION

**Inadvertent starting during transport.** Uncontrolled starting during transport may occur if the battery is fitted, thereby resulting in damage to the tool.

- ▶ Always remove the battery before transporting the tool.

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

#### Storage



#### CAUTION

**Inadvertent damage caused by defective battery.** A leaking battery may damage the tool.

- ▶ Always remove the battery before storing the tool.

- ▶ 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

### 8.1 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.

### 8.2 The rotary hammer is not in working order

Malfunction	Possible cause	Action to be taken
The LEDs indicate nothing.	The battery is not fully inserted.	▶ Push the battery in until it engages with a double click.
	The battery is discharged.	▶ Change the battery and charge the empty battery.

Malfunction	Possible cause	Action to be taken
1 LED blinks.	The battery is discharged.	► Change the battery and charge the empty battery.
	The battery is too hot or too cold.	► Bring the battery to the recommended working temperature.
4 LEDs blink.	The rotary hammer has been overloaded briefly.	► Release the control switch and then press it again.

### 8.3 The rotary hammer is in working order

Trouble or fault	Possible cause	Action to be taken
No hammering action.	The rotary hammer is too cold.	► Bring the tip of the drill bit into contact with the working surface, switch the rotary hammer on and allow it to run. If necessary, repeat the procedure until the hammering mechanism begins to operate.
	The function selector switch is set to "Drilling without hammering"  .	► Set the function selector switch to "Hammer drilling"  .
	The rotary hammer has been set to reverse rotation.	► Move the forward / reverse selector switch to the "Forward" position.
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.
The drive spindle does not rotate.	The permissible operating temperature of the rotary hammer's electronics has been exceeded.	► Allow the rotary hammer to cool down.
	The battery is discharged.	► Change the battery and charge the empty battery.
The rotary hammer switches itself off automatically.	The overload cut-out has been activated.	► Release the control switch. Allow the rotary hammer to cool down. Press the control switch again. Reduce the load on the tool.
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 rotary hammer or the battery gets very hot.	Electrical fault.	► Switch off the rotary hammer immediately. Remove the battery and keep it under observation. Allow it to cool down. Contact <b>Hilti</b> service.
	The rotary hammer has been overloaded (application limit exceeded).	► Select a tool that is suitable for its intended use.
The insert tool can't be released.	The chuck is not pulled back fully.	► Pull the chuck back as far as it will go and remove the accessory tool.
The tool makes no progress.	The rotary hammer has been set to reverse rotation.	► Move the forward / reverse selector switch to the "Forward" position.
	The function selector switch is set to "Drilling without hammering"  .	► Set the function selector switch to "Hammer drilling"  .

## 9 Disposal



### WARNING

**Risk of injury.** Hazards presented by improper disposal.

- ▶ Improper disposal of the equipment may have the following consequences: The burning of plastic components generates toxic fumes which may present a health hazard. Batteries may explode if damaged or exposed to very high temperatures, causing poisoning, burns, acid burns or environmental pollution. Careless disposal may permit unauthorized and improper use of the equipment. This may result in serious personal injury, injury to third parties and pollution of the environment.
- ▶ Dispose of defective batteries right away. Keep them out of reach of children. Do not disassemble or incinerate the batteries.
- ▶ Batteries that have reached the end of their life must be disposed of in accordance with national regulations or returned to **Hilti**.

 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.

## 10 Manufacturer's warranty

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

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