

# HILTI

**TE 40**  
**TE 40-AVR**

English





## 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.
3	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)
	Chiseling
	Chisel positioning
	Protection class II (double-insulated)

### 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 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 stated 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

Combihammer	TE 40
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 and stored 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 and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**

#### 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 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, 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.

#### 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 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. 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.

#### 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.

## 2.2 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 or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

## 2.3 Additional safety instructions

### Personal safety

- ▶ Use the tool only when it is in perfect working order.
- ▶ Never tamper with or modify the tool in any way.
- ▶ Always hold the tool firmly with both hands on the grips provided. Keep the grips clean and dry.
- ▶ Always grip the side handle at the outer end. The tool can twist off to the side when used for drilling or screwdriving.
- ▶ Do not touch rotating parts – risk of injury!
- ▶ Set the forward/reverse selector switch to the middle position before changing accessory tools or batteries and before storage or transportation of the power tool – centering the switch engages the safety lock.
- ▶ Wear suitable protective glasses, a hard hat, ear protection, protective gloves and light respiratory protection while using the power tool.
- ▶ Wear protective gloves also when changing the accessory tool. Touching the accessory tool can result in cuts and burns.
- ▶ Wear eye protection. Flying fragments can injure the body and eyes.
- ▶ Use large, heavy accessory tools only with the power tool set to first gear. There is otherwise a risk of causing damage to the power tool when switching it off or, under unfavorable circumstances, the chuck may work loose.
- ▶ 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.

- ▶ Use a dust removal system and suitable mobile dust extractor whenever possible. Dust from materials such as lead-based paint, certain types of wood and concrete/masonry/stone containing quartz, minerals or metal may 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 may cause allergic reactions and/or respiratory or other diseases among operators 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.

#### **Electrical safety**

- ▶ Before beginning work, check the working area for concealed electric cables or gas 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**

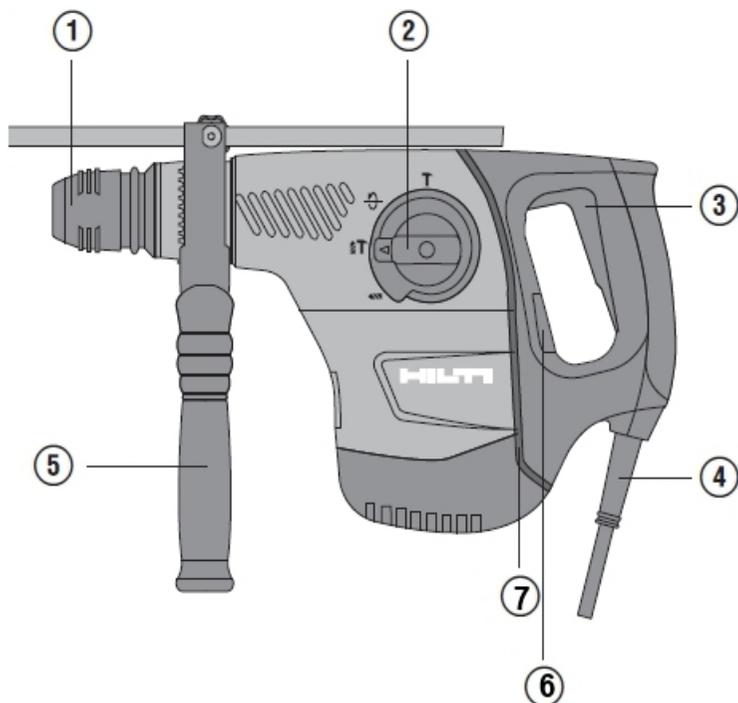
- ▶ Secure the workpiece. A workpiece clamped in a vice or secured by some other clamping devices is more secure than when held only by hand.
- ▶ Immediately switch off the power tool if the accessory tool jams. The power tool might twist off-line.
- ▶ Wait until the power tool stops completely before you lay it down.

#### **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 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 allowed to cool down. Contact Hilti Service after the battery has cooled down.

### 3 Description

#### 3.1 Parts, indicators and operating controls



- |                            |  |
|----------------------------|--|
| ① Chuck                    | ⑤ Side handle with depth gauge                 |
| ② Function selector switch | ⑥ Service indicator                            |
| ③ Control switch           | ⑦ Active Vibration Reduction (AVR) (TE 40-AVR) |
| ④ Supply cord              |  |

### 3.2 Intended use

The product described is an electrically powered combihammer with pneumatic hammering mechanism. It is designed for drilling in concrete, masonry, wood and metal. The product can also be used for light- to medium-duty chiseling on masonry and surface finishing work on concrete.

- ▶ The tool may be operated only when connected to a power source providing a voltage and frequency in compliance with the information given on the type identification plate.

### 3.3 Description of the device

#### 3.3.1 AVR option

The product may be optionally equipped with an Active Vibration Reduction (AVR) system, which reduces vibration noticeably.

#### 3.3.2 Service indicator

The product is equipped with a service indicator LED.

### 3.4 Items supplied

Combihammer, side handle, depth gauge, operating instructions.



#### 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**

## 4 Technical data

### 4.1 Combihammer



#### Note

For details of the rated voltage, current, frequency and input power, please refer to the power tool's country-specific type identification plate.

If the tool is powered by a generator or transformer, the generator or transformer's power output must be at least twice the rated input power shown on the rating plate of the tool. The operating voltage of the transformer or generator must always be within +5% and -15% of the rated voltage of the tool.

	TE 40	TE 40-AVR
<b>Weight in accordance with EPTA procedure 01</b>	5.5 kg	5.6 kg
<b>Single impact energy in accordance with EPTA procedure 05/2009</b>	4.9 J	4.9 J
<b>Ø hammer-action drill bits (TE-C)</b>	5 mm ...28 mm	5 mm ...28 mm
<b>Ø hammer-action drill bits (TE-T)</b>	6 mm ...32 mm	6 mm ...32 mm
<b>Ø drill bits for wood</b>	6 mm ...32 mm	6 mm ...32 mm
<b>Ø drill bits for metal</b>	6 mm ... 13 mm	6 mm ... 13 mm

### 4.2 Noise information and vibration values determined in accordance with EN 60745

The sound pressure and vibration values given in these instructions have been measured in accordance with a standardized test and may be used to compare one electric tool with another. They may be used

for a preliminary assessment of exposure. The data given represents the main applications of the electric tool. However, if the electric tool is used for different applications, with different accessory tools, or is poorly maintained, the data may vary. This may 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 may 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: maintenance of the electric tool and the accessories, keeping the hands warm, organization of work patterns.

### Noise information

	TE 40	TE 40-AVR
Sound (power) level ( $L_{WA}$ )	104 dB(A)	105 dB(A)
Uncertainty for the sound power level ( $K_{WA}$ )	3 dB(A)	3 dB(A)
Emission sound pressure level ( $L_{pA}$ )	93 dB(A)	94 dB(A)
Uncertainty for the sound pressure level ( $K_{pA}$ )	3 dB(A)	3 dB(A)

### Information about vibration

	TE 40	TE 40-AVR
Drilling in metal ( $a_{h,D}$ )	$\leq 2.5 \text{ m/s}^2$	$\leq 2.5 \text{ m/s}^2$
Hammer drilling in concrete ( $a_{h,D}$ )	16.3 $\text{m/s}^2$	10.7 $\text{m/s}^2$
Chiseling ( $a_{h,ChEQ}$ )	16.5 $\text{m/s}^2$	9.9 $\text{m/s}^2$
Uncertainty (K)	1.5 $\text{m/s}^2$	1.5 $\text{m/s}^2$

## 5 Operation

### 5.1 Preparations at the workplace



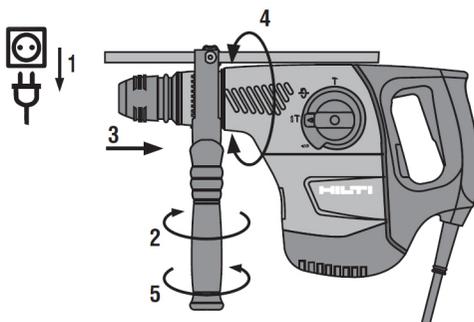
#### CAUTION

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

- ▶ Unplug the supply cord before making adjustments to the power tool or before changing accessories.

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

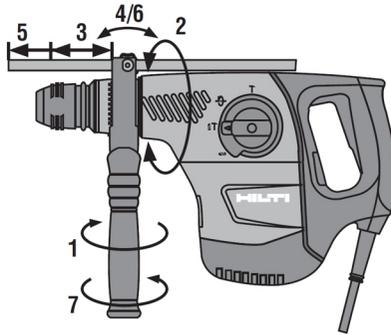
#### 5.1.1 Fitting the side handle



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. Set the side handle to the desired position.

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

### 5.1.2 Adjusting the depth gauge



1. Press the release button on the side handle.
2. Adjust the depth gauge to the desired drilling depth.
3. Release the release button.
4. Check that the side handle is securely attached.

### 5.1.3 Removing the chuck



#### CAUTION

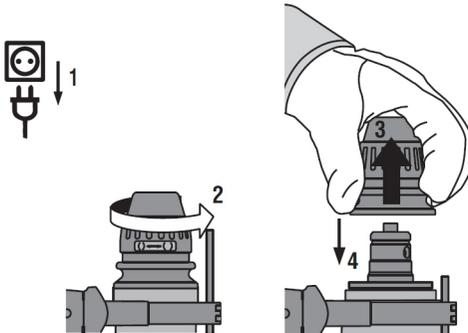
**Risk of injury!** The depth gauge, if fitted but not used, may hinder the user.

- ▶ Remove the depth gauge from the tool.



#### Note

To change the chuck, set the function selector switch to this position **T**.



1. Disconnect the supply cord plug from the power outlet.
2. Grip over the end of chuck and pull the chuck release collar upwards.
3. Lift the chuck upwards away from the tool.

### 5.1.4 Fitting the chuck



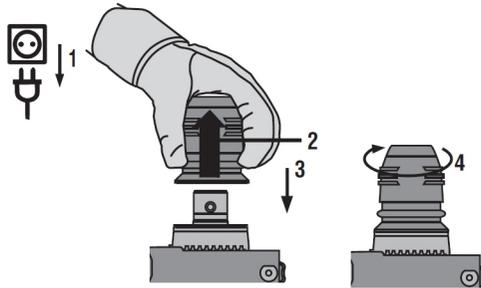
#### CAUTION

**Risk of injury!** The depth gauge, if fitted but not used, may hinder the user.

- ▶ Remove the depth gauge from the tool.

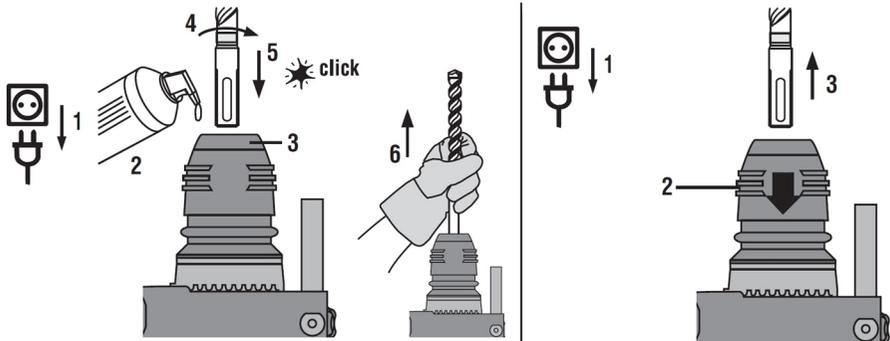
**Note**

Set the function selector switch to the **T** "Chiseling" position when changing the chuck.



1. Disconnect the supply cord plug from the power outlet.
2. Grip over the end of the chuck and pull the chuck release collar upwards.
3. Fit the chuck onto the chuck mount.
4. Rotate the chuck until it engages in position.

### 5.1.5 Fitting / removing the accessory tool



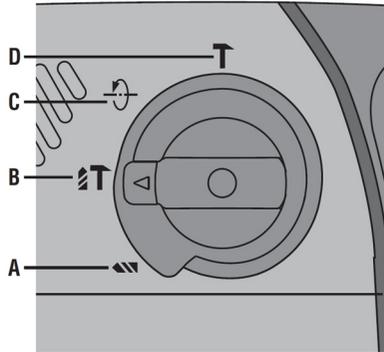
1. Apply a little grease to the connection end of the accessory tool.
  - ◁ Use only genuine **Hilti** grease. Use of the wrong grease can result in damage to the tool.
2. Push the accessory tool into the chuck as far as it will go, turning it and applying light pressure until it engages with an audible click.
3. After fitting the accessory tool, grip it and pull it firmly in order to check that it is securely engaged.
  - ◁ The product is ready for use.
4. Pull the chuck ring back as far as it will go and remove the accessory tool.

### 5.1.6 Positioning the chisel

**CAUTION**

**Risk of injury!** Loss of control over the chisel direction.

- ▶ Do not operate the tool when the selector switch is set to "Chisel positioning". Turn the function selector switch until it engages in the "Chiseling" position.



- ▶ Set the function selector switch to this symbol: .
  - ◀ The chisel can be adjusted to 12 different positions (in 30° increments). This ensures that flat chisels and shaped chisels can always be set to the optimum working position.

## 5.2 Types of work



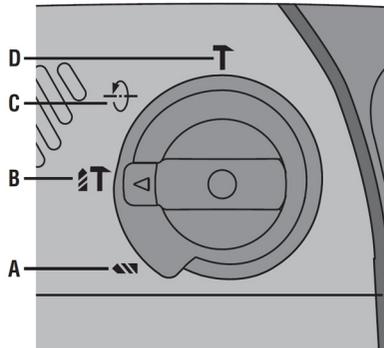
### WARNING

**A damaged supply cord presents a hazard!** Do not touch the supply cord or extension cord if damaged while working. Disconnect the supply cord plug from the power outlet.

- ▶ Check the appliance's supply cord at regular intervals and have it replaced by a qualified specialist if found to be damaged.

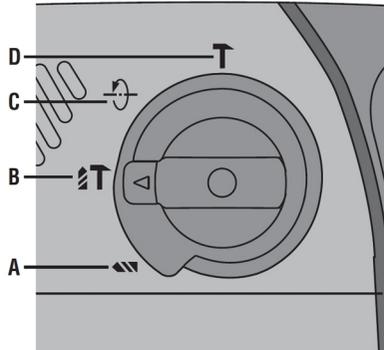
Check extension cords at regular intervals and replace them if found to be damaged.

### 5.2.1 Function selector switch



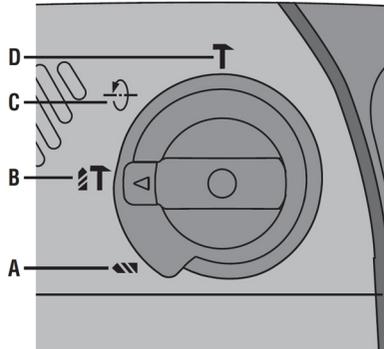
- ▶ Set the function selector switch to the desired working position.
  - ◀ Do not operate the function selector switch while the motor is running. **Risk of damage!**

### 5.2.2 Drilling without hammering



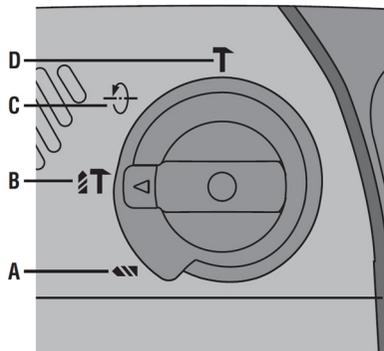
- ▶ Set the function selector switch to this symbol: .

### 5.2.3 Drilling with hammering action (hammer drilling)



- ▶ Set the function selector switch to this symbol: .

### 5.2.4 Chiseling



- ▶ Set the function selector switch to this symbol: .

## 6 Care and maintenance



### WARNING

**Danger of electric shock!** Carrying out care and maintenance while the supply cord is connected to the power outlet presents a risk of serious injuries including burns.

- ▶ Always unplug the supply cord before carrying out all care and maintenance tasks.

### Care

- Carefully remove stubborn dirt from the tool.
- 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 they can attack the plastic parts.

### Maintenance



### WARNING

**Danger of electric shock!** Improper repairs to electrical components may lead to serious injuries including burns.

- ▶ Repairs to the electrical section of the tool or appliance may be carried out only by trained electrical specialists.

- At regular intervals, check all visible parts and the controls for signs of damage and make sure that they all function correctly.
- Do not operate the power tool if signs of damage are found or if parts malfunction. Have damage repaired immediately by **Hilti Service**.
- After cleaning and maintenance, refit 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)

## 7 Transport and storage

- Do not transport electric tools with accessory tools fitted.
- Always unplug the supply cord before storing an electric tool or appliance.
- Store tools and appliances in a dry place where they cannot be accessed by children or unauthorized persons.
- Check electric tools or appliances for damage after long periods of transport or 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 Troubleshooting

Trouble or fault	Possible cause	Action to be taken
Power tool does not start.	Interruption in the electric supply	▶ Plug in another electric tool or appliance and check whether it works.
	The electronic restart interlock is activated after an interruption in the electric supply.	▶ Switch the power tool off and then on again.

Trouble or fault	Possible cause	Action to be taken
Power tool does not start.	Generator with sleep mode.	▶ Apply a load to the generator by connecting a second power consumer (e.g. worklight). Switch the tool off and then on again.
No hammering action.	The power tool 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.
	Function selector switch set to the  position.	▶ Set the function selector switch to the  position.
Combihammer does not achieve full power.	The cross-section of the extension cord conductors is inadequate.	▶ Use an extension cord with an adequate conductor cross-section.
	The voltage provided by the electric supply is too low.	▶ Connect the combihammer to a different electric supply.
Drill bit does not rotate.	The function selector switch is not engaged or is in the "Chiseling" position  or the "Chisel positioning" position  .	▶ Set the function selector switch to one of the following positions:   .
Drill bit is not released.	Chuck not pulled back fully.	▶ Pull the chuck back as far as it will go and remove the accessory tool.
	Side handle not fitted correctly.	▶ Disengage the side handle and refit it correctly so that the clamping band and side handle engage in the recess.

## 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.



- ▶ Disposal of electric tools or appliances together with household waste is not permissible.

## 10 Manufacturer's warranty

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





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Feldkircherstraße 100  
9494 Schaan | Liechtenstein

**TE 40 (01)**  
**TE 40-AVR (01)**

[2006]  
[2006]

2011/65/EU  
2014/30/EU  
2006/42/EG

EN ISO 12100  
EN 60745-1  
EN 60745-2-6

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[www.hilti.com](http://www.hilti.com)

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