



TE 500
TE 500-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 occur when handling or using the product. The following signal words are used:

DANGER

DANGER !

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

WARNING

WARNING !

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

CAUTION

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.
	Wireless data transfer

1.3 Product-dependent symbols

1.3.1 Symbols on the product

The following symbols are used on the product:

	Chiseling
	Chisel position adjustment
	Volts
	Chisel position adjustment
	Double insulated
	Lock symbol

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

Breakers	TE 500 TE 500-AVR
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.

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 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.

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 the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- ▶ **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 Additional safety instructions for breakers

Personal safety

- ▶ Use the product only when it is in technically faultless condition.
- ▶ Never tamper with or modify the tool in any way.
- ▶ 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.

- ▶ You and any other persons in the vicinity must wear suitable eye protection, a hard hat, ear protection, protective gloves and respiratory protection while the tool is in use.
- ▶ 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 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.
- ▶ Take breaks between working 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

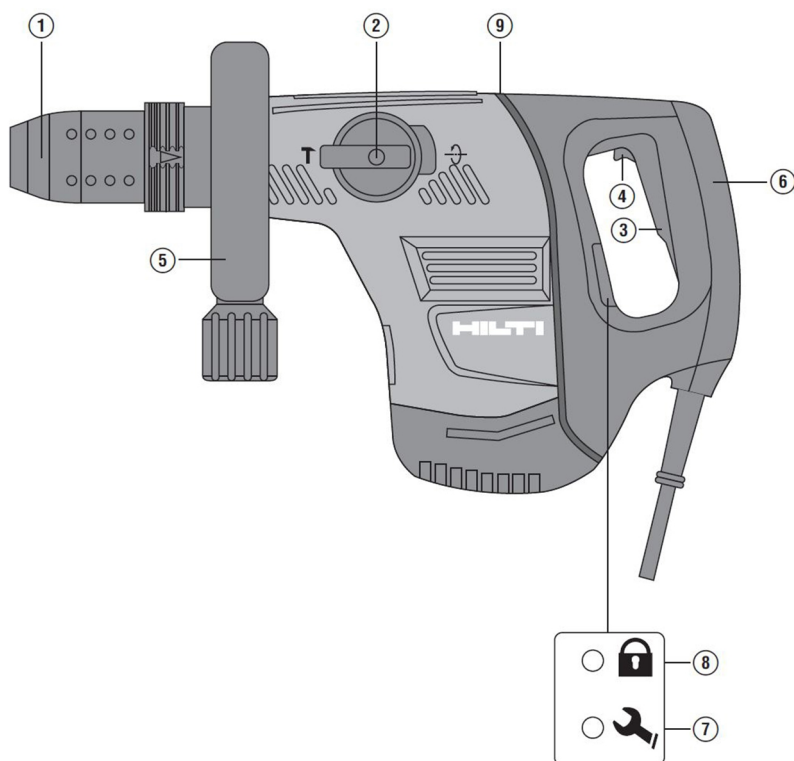
- ▶ Before beginning work, check the working area for concealed electric cables or gas and water pipes. External metal parts of the power tool may become live, presenting a risk of electric shock, if you damage an electric cable accidentally.

Careful handling and use of electric tools

- ▶ Wait until the power tool stops completely before you lay it down.

3 Description

3.1 Overview of the product



- | | |
|----------------------------|--|
| ① Chuck | ⑥ Rear grip surface |
| ② Function selector switch | ⑦ Service indicator |
| ③ Control switch | ⑧ Theft protection indicator (optional) |
| ④ Control switch lock | ⑨ Active Vibration Reduction AVR (only TE 500-AVR) |
| ⑤ Side handle | |

3.2 Intended use

The product described is an electrically powered breaker. It is designed for medium-duty chiseling work on masonry and concrete.

- Operation is permissible 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 Active Vibration Reduction (AVR)

The breaker is equipped with an Active Vibration Reduction (AVR) system, which greatly reduces vibration.

3.4 Service indicator

The breaker is equipped with a service indicator LED.

Status	Meaning
The service indicator lights.	• End of service interval – servicing is due.
The service indicator blinks.	• The product is faulty. Have the product repaired by a trained electrical specialist.



Bring the product to **Hilti Service** in good time. This will help to ensure that it's always ready for use.

3.5 Items supplied

Breaker, operating instructions.

Other system products approved for use with this product can be found at your local **Hilti Store** or at: www.hilti.group | USA: www.hilti.com

4 Technical data

4.1 Breaker



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

When 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 power tool. The operating voltage of the transformer or generator must always be within +5% and -15% of the rated voltage of the power tool.

	TE 500	TE 500-AVR
Weight in accordance with EPTA procedure 01	5.6 kg	5.7 kg
Protection class	II	II

4.2 Noise information and vibration values 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 power tool with another. They may 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 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 power 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: Maintaining the power tool and accessory tools, keeping the hands warm, organization of work patterns.

Noise information

	TE 500	TE 500-AVR
Sound (power) level	105 dB	105 dB
Sound pressure level	94 dB	94 dB
Uncertainty	3 dB	3 dB

Information about vibration

	TE 500	TE 500-AVR
Chiseling ($a_{h,Chex}$)	12.1 m/s ²	10.1 m/s ²
Uncertainty (K)	1.5 m/s ²	1.5 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.

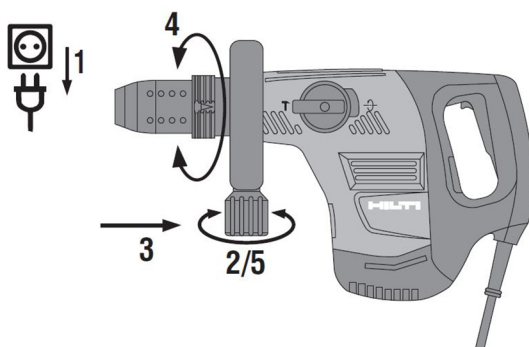
Observe the safety instructions and warnings in this documentation and on the product.

5.1.1 Fitting the side handle

CAUTION

Risk of injury! Loss of control over the breaker.

- Check that the side handle is fitted correctly and tightened securely.



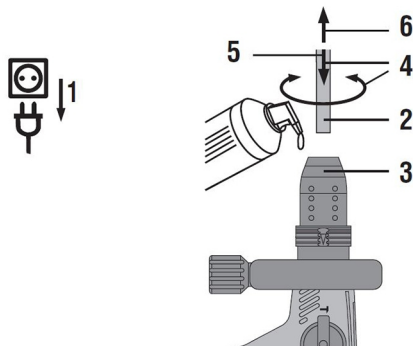
1. Slide the side handle clamping band over the chuck from the front and into the recess provided.
2. Bring the side handle into the desired position.
3. Secure the side handle by turning the knob until the clamping band is tight.

5.1.2 Fitting the accessory tool

WARNING

Risk of injury! The tool becomes hot as a result of use.

- Wear protective gloves when changing the tool.



1. Apply a little grease to the connection end of the accessory tool.
2. Push the accessory tool into the chuck as far as it will go (until it engages).
 - ◀ The product is ready for use.

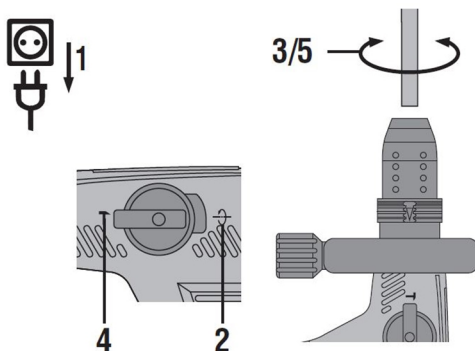
5.1.3 Positioning the chisel

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.

The chisel can be adjusted to 24 different positions (in 15° increments). This ensures that flat chisels and shaped chisels can always be set to the optimum working position.



1. Set the function selector switch to the position.
2. Rotate the chisel to the desired position.
3. Engage the function selector switch in the **T** position.
 - ◀ The tool is ready for use.

5.1.4 Removing the accessory tool

DANGER

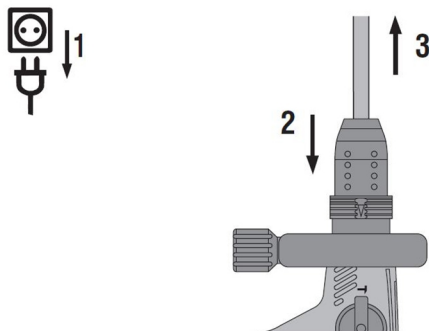
Risk of fire! Risk of contact between the hot accessory tool and highly inflammable materials.

- ▶ Do not lay the hot accessory tool down on highly inflammable materials.

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.



Use only the recommended grease supplied by **Hilti**. Use of unsuitable grease may cause damage to the product.

5.2 Types of work



WARNING

Risk of electric shock! Severe injury and burns can result if any attempt is made to operate the tool without an earth/ground conductor and ground fault circuit interrupter correctly connected.

- Irrespective of whether mains power or generator power is used, always make sure that an earth/ground conductor and ground fault circuit interrupter are present in the power supply and that these are correctly connected.
- Do not use the product unless these safety measures are in place and fully operational.



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.

Full approval must be obtained from the site engineer or architect prior to beginning the work.

5.2.1 Chiseling

- Set the function selector switch to the **T** position.

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.

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.

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
The power tool doesn't start.	Interruption in the electric supply.	▶ Plug in another power tool or appliance and check whether it works.
	The supply cord or plug is defective.	▶ Have the supply cord or the plug checked by a trained electrical specialist and replaced if necessary.
	The generator is in sleep mode.	▶ Apply a load to the generator by connecting a second power consumer (e.g. worklight).
	Electrical fault.	▶ Have the power tool and supply cables checked by a trained electrical specialist.
	The electronic restart interlock is activated after an interruption in the electric supply.	▶ Switch the power tool off and then on again.
No hammering action.	The tool is faulty or servicing is due.	▶ Have the product repaired only by Hilti Service .
The power tool doesn't start and the service indicator lights red.	The carbon brushes are worn out.	▶ Have the power tool checked by a trained electrical specialist and the carbon brushes replaced if necessary.

Trouble or fault	Possible cause	Action to be taken
The power tool doesn't start and the service indicator lights red.	The tool is faulty or servicing is due.	► Have the product repaired only by Hilti Service.
The tool does not achieve full power.	The gauge (cross section) of the extension cord conductors is inadequate.	► Use an extension cord with an adequate conductor cross section.
	The control switch is not fully pressed.	► Press the control switch as far as it will go.
The chisel cannot be released from the chuck.	The chuck is not pulled back fully.	► Pull the chuck back as far as it will go and remove the insert tool.

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.



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

10 RoHS (Restriction of Hazardous Substances)

TE 500

The following links take you to the table of dangerous substances: qr.hilti.com/r3661 (TE 500) and qr.hilti.com/r3662 (TE 500-AVR).

You will find 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.



Hilti Aktiengesellschaft
Feldkircherstraße 100
9494 Schaan | Liechtenstein

TE 500-AVR (01) / TE 500 (01)

[2006]

2006/42/EC
2014/30/EU
2011/65/EU
2006/66/EU
2000/14/EC

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



Measured 97 dB
Guaranteed 99 dB



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TE 500-AVR



TE 500-AVR





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