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 signs used

1.2.1 Warnings

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

- **DANGER!** Draws attention to imminent danger that will lead to serious personal injury or fatality.
- **WARNING!** Draws attention to a potential hazard that could lead to serious personal injury or fatality.
- **CAUTION!** Draws attention to a potentially dangerous situation that could lead to minor 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

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.
- These characters are intended to specifically draw your attention to certain points when handling the product.

1.3 Explanation of signs used

1.3.1 Symbols on the product

The following symbols are used on the product:

- **Chiseling**
- **Chisel positioning**
- **Protection class II (double-insulated)**
- **Rated speed under no load**
- **Wear protective gloves**

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.

<table>
<thead>
<tr>
<th>Product information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaker</td>
</tr>
<tr>
<td>Generation</td>
</tr>
<tr>
<td>Serial no.</td>
</tr>
</tbody>
</table>

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 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 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.
- Always hold the power tool with both hands on the grips provided. Keep the grips clean and dry.
- Always grip the side handle at its outermost end.
- Wear suitable protective glasses, a hard hat, ear protection, protective gloves and light respiratory protection while using the 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 beginning the work, check the hazard classification of the dust that will be produced. Use an industrial vacuum cleaner with an officially approved protection classification in compliance with locally applicable dust protection regulations.
- Use a dust removal system and suitable vacuum cleaner whenever possible. Dust from materials, such as paint containing lead, some wood species, concrete/masonry/stone containing silica, and minerals as well as metal, may be harmful.
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 power tools**

- Switch the power tool off if the accessory tool sticks and stalls. The power tool may be deflected laterally.
- Wait until the power tool stops completely before you lay it down.
3 Description

3.1 Overview of the product

1
2
3
4
5
6
7
8
9
10
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 Possible misuse
- This product is not suitable for working on hazardous materials.
- This product is not suitable for working in a damp environment.
- This product may not be connected to a power source providing a voltage and frequency not in compliance with the information given on the type identification plate.

3.5 Service indicator
The breaker is equipped with a service indicator LED.

<table>
<thead>
<tr>
<th>Status</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>The service indicator lights.</td>
<td>• End of service interval – servicing is due.</td>
</tr>
<tr>
<td>The service indicator blinks.</td>
<td>• The product is faulty. Have the product repaired by Hilti Service.</td>
</tr>
</tbody>
</table>

3.6 Items supplied
Breaker, side handle, operating instructions.

You can find other system products approved for your product at your local Hilti Center or online at: www.hilti.group.

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.

<table>
<thead>
<tr>
<th>TE 500-AVR</th>
<th>Weight in accordance with EPTA procedure 01</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6.3 kg</td>
</tr>
</tbody>
</table>

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 emission values**

<table>
<thead>
<tr>
<th>Noise emission values</th>
<th>TE 500-AVR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound (power) level ($L_{WA}$)</td>
<td>95 dB(A)</td>
</tr>
<tr>
<td>Uncertainty for the sound power level ($K_{WA}$)</td>
<td>3 dB(A)</td>
</tr>
<tr>
<td>Sound pressure level ($L_{pa}$)</td>
<td>84 dB(A)</td>
</tr>
<tr>
<td>Uncertainty for the sound pressure level ($K_{pa}$)</td>
<td>3 dB(A)</td>
</tr>
</tbody>
</table>

**Total vibration**

<table>
<thead>
<tr>
<th>Total vibration</th>
<th>TE 500-AVR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chiseling ($a_{h,cheq}$)</td>
<td>6.8 m/s²</td>
</tr>
<tr>
<td>Uncertainty (K)</td>
<td>1.5 m/s²</td>
</tr>
</tbody>
</table>

## 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 Connecting the detachable supply cord

**CAUTION**

Risk of injury! Due to leakage current as a result of dirty contacts.

- Connect the detachable electric connector to the electric tool only when it is clean and dry and when the supply cord is unplugged from the power outlet.

1. Push the keyed, detachable electric plug connector into the socket as far as it will go, until it is heard to engage.
2. Plug the supply cord into the power outlet.

5.1.3 Fitting / removing 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.
3. 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.**

5.1.4 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.

5.1.5 Disconnecting the detachable supply cord
1. Unplug the supply cord from the power outlet.
2. Press the release button and pull the keyed, detachable electric plug connector out of the socket.
3. Pull the supply cord connector out of the power tool.

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 テ position.

5.2.2 Switching sustained operation on and off

When chiseling, the on/off switch can be locked in the “on” position.

1. Push the lockbutton for continuous operation forward.
2. Press the on/off switch as far as it will go.
   - The product then runs in sustained operating mode.
3. Push the lockbutton for continuous operation back.
   - The product switches off.

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.

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

<table>
<thead>
<tr>
<th>Trouble or fault</th>
<th>Possible cause</th>
<th>Action to be taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>The breaker doesn’t start.</td>
<td>Interruption in the electric supply.</td>
<td>▶ Plug in another electric tool or appliance and check whether it works.</td>
</tr>
<tr>
<td></td>
<td>The electronic restart interlock is activated after an interruption in the electric supply.</td>
<td>▶ Switch the power tool off and then on again.</td>
</tr>
<tr>
<td></td>
<td>The generator is in sleep mode.</td>
<td>▶ Apply a load to the generator by connecting a second power consumer (e.g. worklight). Switch the tool off and then on again.</td>
</tr>
<tr>
<td></td>
<td>A fault has occurred in the tool.</td>
<td>▶ Have the product repaired by Hilti Service.</td>
</tr>
<tr>
<td></td>
<td>The carbon brushes are worn.</td>
<td>▶ Have checked by a trained electrical specialist and replaced if necessary.</td>
</tr>
<tr>
<td>No hammering action.</td>
<td>The power tool is too cold.</td>
<td>▶ Bring the tip of the accessory tool into contact with the working surface, switch the power tool on and allow it to run. If necessary, repeat the procedure until the hammering mechanism begins to operate.</td>
</tr>
<tr>
<td>The breaker doesn’t achieve full power.</td>
<td>The extension cord is too long or its gauge is inadequate.</td>
<td>▶ Use an extension cord of an approved length and / or of adequate gauge.</td>
</tr>
<tr>
<td></td>
<td>The control switch is not fully pressed.</td>
<td>▶ Press the control switch as far as it will go.</td>
</tr>
<tr>
<td>Trouble or fault</td>
<td>Possible cause</td>
<td>Action to be taken</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>The chisel cannot be released from the chuck.</td>
<td>The chuck is not pulled back fully.</td>
<td>▶ Pull the chuck back as far as it will go and remove the insert tool.</td>
</tr>
<tr>
<td>The service indicator blinks.</td>
<td>A fault has occurred in the tool.</td>
<td>▶ Have the product repaired by Hilti Service.</td>
</tr>
<tr>
<td>The service indicator lights.</td>
<td>The carbon brushes are worn.</td>
<td>▶ Have checked by a trained electrical specialist and replaced if necessary.</td>
</tr>
<tr>
<td></td>
<td>The tool is faulty or servicing is due.</td>
<td>▶ Have the product repaired only by Hilti Service.</td>
</tr>
</tbody>
</table>

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 RoHS (Restriction of Hazardous Substances)

The following links take you to the table of dangerous substances: qr.hilti.com/rxxx. 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

[2016]

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

TE 500-AVR (03)

2011/65/EU
2014/30/EU
2006/42/EG
2000/14/EG-Anhang VI

Measured 100 dB (A)
Guaranteed 103 dB (A)

TÜV Nord CERT GmbH
Am TÜV 1 | DE 30519 Hannover

Schaan, 2017-08-01

Paolo Luccini
Head of BA Quality and Process Management
Business Area Electric Tools & Accessories

Tasilo Deinzer
Executive Vice President
Business Unit Power Tools & Accessories