

# HILTI

## TE 800-AVR

**Operating instructions**

**en**

**Mode d'emploi**

**fr**

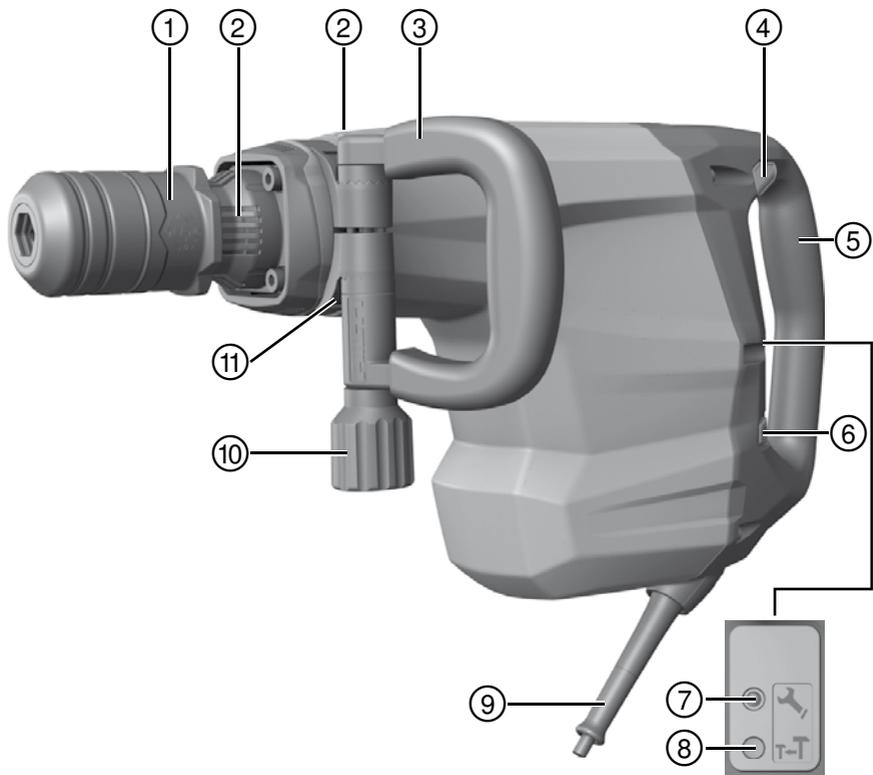
**Manual de instrucciones**

**es**

**Manual de instruções**

**pt**

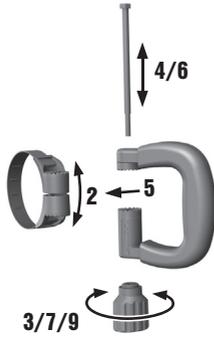




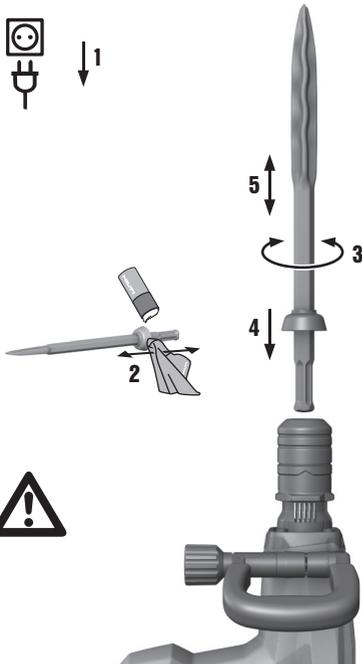
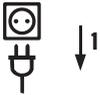
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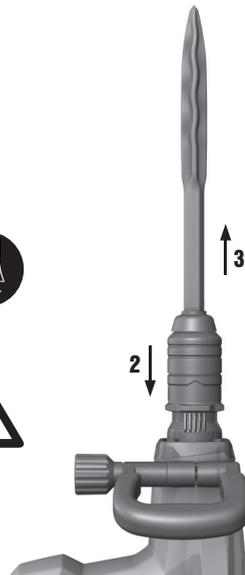
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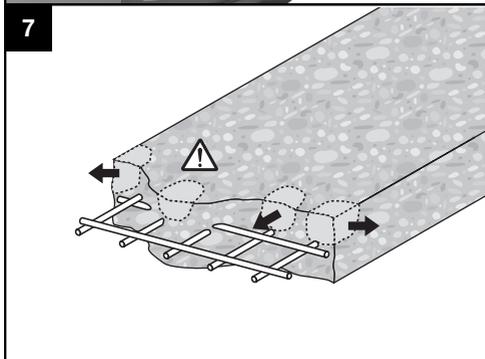
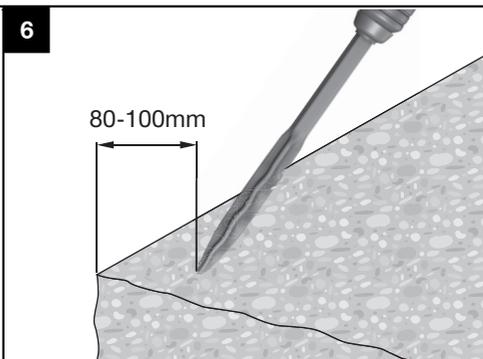


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# ORIGINAL OPERATING INSTRUCTIONS

## TE 800-AVR breaker

**It is essential that the operating instructions are read before the power tool is operated for the first time.**

**Always keep these operating instructions together with the power tool.**

**Ensure that the operating instructions are with the power tool when it is given to other persons.**

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**1** These numbers refer to the illustrations. You can find the illustrations at the beginning of the operating instructions.

In these operating instructions, the designation "the power tool" always refers to the TE 800 or TE 800-AVR breaker.

### Components, operating controls and indicators **1**

- ① Chuck and chisel position adjustment
- ② Cooling slots
- ③ Clamping band
- ④ Cooling air slots
- ⑤ Side handle
- ⑥ On / off switch
- ⑦ Grip
- ⑧ Power level selection switch
- ⑨ Service indicator
- ⑩ Power level indicator
- ⑪ Supply cord
- ⑫ Type identification plate
- ⑬ Knob

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## 1 General information

### 1.1 Safety notices and their meaning

#### **DANGER**

Draws attention to imminent danger that will lead to serious bodily injury or fatality.

#### **WARNING**

Draws attention to a potentially dangerous situation that could lead to serious personal injury or fatality.

#### **CAUTION**

Draws attention to a potentially dangerous situation that could lead to slight personal injury or damage to the equipment or other property.

#### **NOTE**

Draws attention to an instruction or other useful information.

### 1.2 Explanation of the pictograms and other information

#### Warning signs



General warning

#### Obligation signs



Read the operating instructions before use.



Wear protective gloves

### Location of identification data on the power tool

The type designation and serial number can be found on the type identification plate on the machine or tool. Make a note of this data in your operating instructions and always refer to it when making an enquiry to your Hilti representative or service department.

Type: \_\_\_\_\_

Generation: 01 \_\_\_\_\_

Serial no.: \_\_\_\_\_

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## 2 Safety instructions

### 2.1 General Power Tool Safety Warnings

#### a) WARNING

**Read all safety warnings and 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.

#### 2.1.1 Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **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.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

#### 2.1.2 Electrical safety

- a) **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.
- b) **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.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **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.
- e) **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.
- f) **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.

### 2.1.3 Personal safety

- a) **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.
- b) **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.
- c) **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.
- d) **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.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **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.
- g) **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.

### 2.1.4 Power tool use and care

- a) **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.
- b) **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.
- c) **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.

- d) **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.
- e) **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.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **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.

### 2.1.5 Service

- a) **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

- a) **Wear ear protectors.** Exposure to noise can cause hearing loss.
- b) **Use auxiliary handles, if supplied with the tool.** Loss of control can cause personal injury.
- c) **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

### 2.3.1 Personal safety

- a) **Modification of the machine or tampering with its parts is not permissible.**
- b) **Store power tools, when not in use, in a secure place. When not in use, power tools must be stored in a dry, high place or locked away out of reach of children.**
- c) **Improve the blood circulation in your fingers by relaxing your hands and exercising your fingers during breaks between working.**
- d) **Always lead the supply cord and extension cord away from the power tool to the rear while working.** This helps to avoid tripping over the cord while working.
- e) **The appliance is not intended for use by debilitated persons who have received no special training. Keep the appliance out of reach of children.**
- f) 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. 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 must only be treated by specialists. **Where the use of a dust-extraction device is possible it shall be used.** To achieve a high level of dust collection, use a suitable dust extractor. **When indicated wear a respirator appropriate for the type of dust generated. Ensure that the workplace is well ventilated. Follow national requirements for the materials you want to work with.**

### 2.3.2 Electrical safety

- a) **Concealed electric cables or gas and water pipes present a serious hazard if damaged while you are working. Accordingly, check the area in which you are working beforehand (e.g. using a metal detector).** External metal parts of the power tool or machine may become live, for example, when an electric cable is damaged accidentally.
- b) **Check the power tool's supply cord at regular intervals and have it replaced by a qualified specialist if found to be damaged. If the machine's supply cord is damaged it must be replaced with a specially-prepared and approved supply cord available from Hilti Customer Service. Check extension cords at regular intervals and replace them if found to be damaged. Do not touch the supply cord or extension cord if it is damaged while working. Disconnect the mains plug from the power outlet.** Damaged supply cords or extension cords present a risk of electric shock.
- c) **Dirty or dusty power tools which have been used frequently for work on conductive materials should be checked at regular intervals at a Hilti Service Center.** Under unfavorable circumstances, dampness or dust adhering to the surface of the power tool, especially dust from conductive materials, may present a risk of electric shock.
- d) **Hold power tool by insulated gripping surfaces when performing an operation where the fastener may contact hidden wiring or its own cord.** Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- e) **Switch the power tool off and unplug the supply cord in the event of a power failure or interruption in the electric supply.** This will prevent accidental restarting when the electric power returns.

### 2.3.3 Work area

- a) **Ensure that the workplace is well ventilated.** Exposure to dust at a poorly ventilated workplace may result in damage to the health.
- b) **Keep the workplace tidy. Objects which could cause injury should be removed from the work-**

ing area. Untidiness at the workplace can lead to accidents.

- c) **If the work involves breaking right through, take the appropriate safety measures at the opposite side.** Parts breaking away could fall out and / or fall down and injure other persons.

- d) **Approval must be obtained from the site engineer or architect prior to beginning the work. Work on buildings and other structures may influence the statics of the structure, especially when steel reinforcing bars or load-bearing components are cut through.**

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### 3 Description

#### 3.1 Use of the product as directed

The power tool is an electrically-powered breaker with electropneumatic hammering mechanism designed for heavy chiseling work.

The power tool is designed for breaking / removing and demolishing concrete, masonry, stone or asphalt.

Observe the national health and safety requirements.

The power tool is designed for professional use and may be operated, serviced and maintained only by trained, authorized personnel. This personnel must be informed of any special hazards that may be encountered. The power tool and its ancillary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed.

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

To avoid the risk of injury, use only genuine Hilti accessories and insert tools.

#### 3.2 Active Vibration Reduction (TE 800-AVR)

The power tool is equipped with an AVR active vibration reduction system which reduces vibration significantly

compared to power tools without active vibration reduction.

#### 3.3 Protective features

Vibration reduction and high-temperature protection provided by isolation of the grips and plastic casing from internal parts of the power tool.

Electronic restart interlock to prevent the power tool starting unintentionally after an interruption in the electric supply (see section "Troubleshooting").

#### 3.4 LED indicators

Service indicator LED (see section "Care and maintenance / service indicator")

Power level indicator (see section "Operation / setting chiseling power")

#### 3.5 Standard equipment includes:

- 1 Power tool
- 1 Side handle
- 1 Operating instructions

#### NOTE

Accessories can be found at your Hilti Center or online at [www.hilti.com](http://www.hilti.com).

### 4 Technical data

Right of technical changes reserved.

#### NOTE

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.

Power tool	TE 800-AVR	TE 800
Rated voltage	120 V	120 V
Rated current input	15 A	15 A
Mains frequency	60 Hz	60 Hz
Weight	10.6 kg (23.37 lb)	10.5 kg (23.15 lb)
Single impact energy	21 J	21 J
Hammering frequency under load	31.5 Hz	31.5 Hz
Chuck	TE-S	TE-S

Power tool	TE 800-AVR	TE 800
Protection class	Electrical protection class II (double insulated)	Electrical protection class II (double insulated)

## 5 Before use

### CAUTION

Check the insert tool for damage or uneven wear each time before use.

### 5.1 Fitting and adjusting the side handle 2

#### NOTE

Check that the teeth are in the correct position.

## 6 Operation

### NOTE

Make sure that all cooling air slots on the power tool are unobstructed at all times in order to ensure adequate cooling of the tool.

### DANGER

Always hold the power tool securely with both hands on the grips provided. Keep the grips dry, clean and free from oil and grease.

### 6.1 Preparing for use

#### DANGER

Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

#### CAUTION

Wear protective gloves when changing insert tools as the insert tools get hot through use and they may have sharp edges.

### 6.1.1 Fitting the chisel 3

#### CAUTION

The use of unsuitable grease may cause damage to the tool. Only use genuine grease from Hilti.

#### NOTE

The chisel can be adjusted to 6 different positions (in 60° increments). This ensures that flat chisels and shaped chisels can always be set to the optimum working position.

### 6.1.2 Removing the insert tool 4

#### DANGER

Do not lay a hot insert tool down on flammable materials. This could cause the material to ignite, resulting in a fire.

### 6.2 Operation

#### WARNING

If the power tool starts without pressing the on/off switch when the supply cord is plugged back in after unplugging, the power tool must be brought to Hilti Service immediately.

### WARNING

Unplug the supply cord if the on/off switch is found to be faulty.

### CAUTION

Working on the material may cause it to splinter. Wear eye protection and protective gloves. Wear breathing protection if no dust removal system is used. Splintering material presents a risk of injury to the eyes and body.

### CAUTION

Take care to stand in a secure position, especially when chiseling breaches in floors, walls or ceilings, and wear protective gloves and safety footwear. The power tool may pull you off balance if you break through suddenly.

### CAUTION

The work generates noise. Wear ear protectors. Exposure to noise can cause hearing loss.

### 6.2.1 Adjusting chiseling power 5

Chiseling power can be reduced to approx. 70% by pressing the power level selector switch. The power level LED then lights yellow, indicating reduced power. To reselect full chiseling power, press the chiseling power level selector switch again.

#### NOTE

Adjustment of chiseling power is possible only when the power tool is connected to the electric supply. If the power tool is disconnected from the electric supply, it will run again at full power the next time it is started.

### 6.2.2 Chiseling tips

#### 6.2.2.1 Starting chiseling 6

#### 6.2.2.2 Reinforcing bars 7

#### 6.2.2.3 Precise chiseling on walls

Use the power level selector switch to reduce power to 70%. In this operating mode, a special electronic control system allows precise starting.

#### 6.2.2.4 Contact pressure

If inadequate pressure is applied, the chisel will jump around uncontrollably.

Application of excessive pressure will result in a loss of chiseling performance.

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## 7 Care and maintenance

### WARNING

Repairs to the electrical section of the power tool may be carried out only by trained electrical specialists.

#### 7.1 Care of the power tool

### CAUTION

Keep the power tool, especially its grip surfaces, clean and free from oil and grease. Do not use cleaning agents which contain silicone.

Never operate the power tool when the ventilation slots are blocked. Clean the ventilation slots carefully using a dry brush. Do not permit foreign objects to enter the interior of the power tool. Clean the outside of the power tool at regular intervals with a slightly damp cloth. Do not use a spray, steam pressure cleaning equipment or running water for cleaning. This may negatively affect the electrical safety of the power tool.

#### 7.2 Service indicator

### NOTE

The power tool is equipped with a service indicator.

Indicator	Constant red light	End of service interval - servicing is due. After the lamp lights for the first time, the power tool may continue to be used for several hours before the automatic cut-out is activated. To ensure that the power tool is always ready for use, it should be returned to Hilti for servicing in good time.
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#### 7.3 Cleaning or replacing 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 found to be damaged.

## 8 Troubleshooting

Fault	Possible cause	Remedy
The power tool doesn't start.	Initialization of the electronics is in progress (takes up to approx. 1 sec. after plugging in) or the electronic restarting interlock has become activated after an interruption in the electric supply.	Switch the power tool off and on again.
	Interruption in the electric supply.	Plug in another electric appliance and check whether it works.
	The supply cord or plug is defective.	Have it checked by a trained electrical specialist and replaced if necessary.
	The control switch is defective.	Have it checked by a trained electrical specialist and replaced if necessary.
	Generator with sleep mode.	Apply a load to the generator by connecting another appliance (e.g. a lamp). Subsequently switch the power tool off and on again.
The power tool doesn't start and the LED blinks red.	A fault has occurred in the power tool.	If necessary, the power tool should be repaired by Hilti Service.

<b>Fault</b>	<b>Possible cause</b>	<b>Remedy</b>
No hammering action.	The tool is too cold.	Bring the power tool to the operating temperature by pressing the insert tool lightly against the work surface and allowing the power tool to run briefly under no load.
	A fault has occurred in the power tool.	If necessary, the power tool should be repaired by Hilti Service.
The power tool doesn't start and the service indicator lights red.	The carbon brushes are worn.	Have it checked by a trained electrical specialist and replaced if necessary.
	A fault has occurred in the power tool.	If necessary, the power tool should be repaired by Hilti Service.
The power tool starts and the service indicator lights red.	Lights when servicing is due (end of service interval).	Have the power tool serviced or repaired by Hilti Service.
The power tool does not achieve full power.	Power reduction is active. The yellow LED lights.	Press the power level selector switch (observe the power level indicator). Switch the power tool off and on again.
	The extension cord is too long or its gauge is inadequate.	Use an extension cord with an adequate conductor cross section (1.5 mm <sup>2</sup> for lengths up to 40 m; 2.5 mm <sup>2</sup> for lengths up to 65 m).
	The voltage provided by the electric supply is too low.	Connect the power tool to a different power source.
The chisel can't 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.

**NOTE**

If the fault cannot be eliminated by the measures listed above, have the power tool checked by Hilti Service.

**9 Disposal**

Most of the materials from which Hilti power tools or appliances are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, Hilti has already made arrangements for taking back your old power tools or appliances for recycling. Please ask your Hilti customer service department or Hilti representative for further information.

**10 Manufacturer's warranty - tools**

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



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