



313272

**TE 705**

# Operating instructions

**HILTI**

# Safety precautions for grounded tools

## Read all instructions

### Warning!

The following fundamental safety precautions must always be observed when using electric tools/machines as protection against an electric shock, the risk of injury and a fire hazard. Please read and take note of these precautions before you use the tool/machine. Please read and keep these safety precautions in a safe place!

- 1. Keep Work Area Clean.** Cluttered areas and benches invite injuries.
- 2. Consider Work Area Environment.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit. Do not use tool in presence of flammable liquids or gases.
- 3. Guard Against Electric Shock.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
- 4. Keep Children Away.** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- 5. Store Idle Tools.** When not in use, tools should be stored in dry, and high or locked-up place – out of reach of children.
- 6. Don't Force Tool.** It will do the job better and safer at the rate for which it was intended.
- 7. Use Right Tool.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended – for example – don't use circular saw for cutting tree limbs or logs.
- 8. Dress Properly.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- 9. Use Safety Glasses.** Also use face or dust mask if cutting operation is dusty.
- 10. Don't Abuse Cord.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- 11. Secure Work.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- 12. Don't Overreach / Maintain Control.** Keep proper footing and balance at all times.
- 13. Maintain Tools With Care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and

changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.

- 14. Disconnect Tools.** When not in use, before servicing and when changing accessories, such as blades, bits, cutters.
- 15. Remove Adjusting Keys and Wrenches.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 16. Avoid Unintentional Starting.** Don't carry tool with finger on switch. Be sure switch is off when plugging in.
- 16A. Extension Cords.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

Extension Cord Table

Volts	Total Length of Cord in Feet			
	0–25	26–50	51–100	101–150
120 V				
240 V	0–50	51–100	101–200	201–300

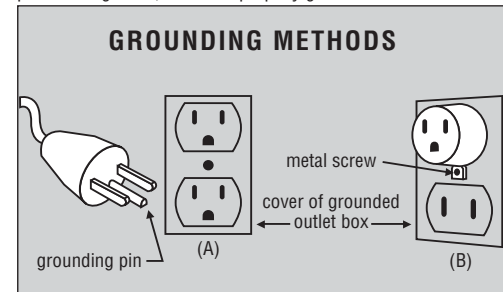
Ampere Rating AWG

More Than	Not More Than			
	0	6	18	16
6	10	18	16	14
10	12	16	16	12
12	16	14	12	Not recommended

- 17. Outdoor Use Extension Cords.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
- 18. Stay Alert.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- 19. Check Damaged Parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
- 20. Only use accessories and attachments** which are given in the operating instructions or in the respective catalogue. The use of accessories or insert tools or attachments other than those speci-

fied in the operating instructions can result in personal injury to you.

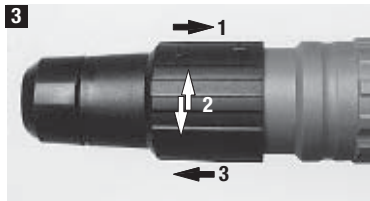
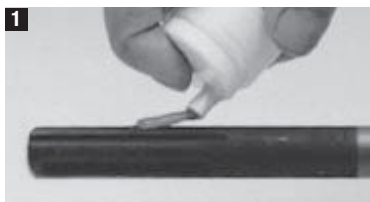
- 21. Only have repairs carried out by recognized electrical specialists.** This electric tool/machine complies with respective safety regulations. Repairs may only be carried out by an electrical specialist otherwise an accident hazard for the operator can exist.
- 22. Wear ear protectors** when using for extended periods.
- 23. Always use any supplied side handle,** and keep it tightly secured; use both hands during operation. Firm control of the tool is necessary should the tool bind.
- 24. Hold Tool by Handle(s) Provided.** Do not touch uninsulated parts of tool when drilling. Exposed metal surfaces may be made live if the tool drills into electrical wiring.
- 25. Grounding instructions.** This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a 3-conductor cord and 3-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 V, it has a plug that looks like that shown in sketch (A) in Figure «Grounding Methods». An adapter, see sketch (B), is available for connecting sketch (A) type plugs to 2-prong receptacles. The green-colored rigid ear, lug, or the like, extending from the adapter must be connected in a permanent ground, such as a properly grounded outlet box.



- 26. Extension Cords.** Use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole receptacles that accept the tool's plug. Replace or repair damaged cords.
- 27. Replacement parts.** When servicing use only identical replacement parts.

Save these instructions.

# Hilti TE 705 breaker



## Kit supplied with the machine:

Plastic case, cleaning cloth, Hilti insert tool  
grease, operating instructions



Eye protection  
must be worn

## Technical data

Power input:	1030 W
Voltage (versions):	120 V ~
Current input:	10 A
Frequency:	50–60 Hz
Machine weight:	6.5 kg (14.3 lbs)
Dimensions:	515×215×115 mm (20.3×8.5×4.5 in)
Hammering speed under load:	1940/2740 blows/min.
Single impact energy:	4.3 joules / 8.5 joules (3.1 ft-lb / 6.2 ft-lb)
Chiselling performance in medium-hard concrete:	up to 500 cm <sup>3</sup> /min. (30 in <sup>3</sup> /min) with standard SM36 chisel
Chisels:	Pointed, narrow flat, wide flat, extra wide flat, hollow, channel (narrow or wide) scoop, in standard version
Chuck:	TE-Y
Chisel cutting edge adjustment to 18 positions	
Permanent lubrication	
Adjustable side handle	
On/off switch for continuous running	
Electronic r.p.m. regulation for improved operating convenience	
Hammering power regulation: max. = 100 %, min. = 50 %	
Protection class I (grounded tool)	
Service indicator with warning lamp	

Right of technical modifications reserved.

This Product is  
UL listed and CSA certified



The respective regulations of your trade association and the enclosed safety precautions must be observed.

Do not use this product in any way other than as directed by these operating instructions.  
The operating instructions should always be kept with the machine!

## Before operating the machine, please note:

Hold the machine securely with both hands while working. Regularly check the security of the stance or position from which you are working.

1. The main power voltage must comply with the information on the rating plate.
2. Do not apply excessive pressure to the TE705 – this will not increase its performance. Simply position and guide the chisel.

**The enclosed list of safety precautions must be observed.**

### Fig. 1: Cleaning chisel connection ends

The chuck is not incorporated in the machine's lubrication system. The connection ends of chisels and other tools must therefore be cleaned regularly and lubricated **springly** with Hilti grease.

### Starting time at low temperatures:

The starting time (until hammering action begins) can be reduced by jolting the chisel once against the working surface as the machine is switched on.

## Operation:

### Fig. 2: Inserting a chisel

Pull back the locking sleeve, insert the chisel and rotate it until it engages in the guide groove. Push the chisel in further against the resistance of the retaining mechanism and release the locking sleeve.

To remove the chisel: Pull back the locking sleeve and remove the chisel.



### Fig. 3: Chisel adjustment

Pull back the locking sleeve as far as it will go (1), rotate the chisel into the desired position (2), release the locking sleeve and the chisel engages in position (3).

### Fig. 4:

Adjust the side handle to the optimum working position. Angle and axial adjustment is possible.

### Fig. 5: Hammering power adjustment

Adjust the hammering power as required. By moving lever to the largest hammer symbol  for 100 % hammering power or to the smallest hammer symbol  for 50 % hammer power.

### Beginning work:

Turn switch to on. Push chisel against base material.

## Servicing:

The TE705 is equipped with a service indicator. When the indicator lights up, the machine should be serviced by Hilti. **Failure to service the machine when indicated could result in expensive consequential damage.** Electric tools must comply with the applicable safety regulations. Servicing, therefore, must be carried out only by qualified electrical specialists. The use of original Hilti parts provides optimum safety.

## Chisel maintenance:

### Resharpener:

When resharpener wide-flat, narrow-flat and pointed chisels which are not badly worn at the cutting edge, take care to avoid overheating the surface (no discoloration!).

Resharpener limit: length of 70 mm from the tip.

### Pointed and narrow-flat chisels

Reforge the chisel at about 1652°F to 823°F (900°C to 1000°C) very bright red—bright yellowish red).

Afterwards, quench in oil

Forging and quenching the chisel in this way is all that is required.

**No further hardening and tempering is necessary.**

### Wide-flat chisel

As the cross-section of a worn wide-flat chisel is not sufficient for reforging, these chisels should **not be reforged** but only **resharpened** (ground). The blade is long enough to be resharpener several times.

### Regrinding:

