

**TE 804**

# **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			
120 V	0–25	26–50	51–100	101–150
240 V	0–50	51–100	101–200	201–300

Ampere Rating	AWG					
	More Than	Not More Than				
0	–	6	18	16	16	14
6	–	10	18	16	14	12
10	–	12	16	16	14	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

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

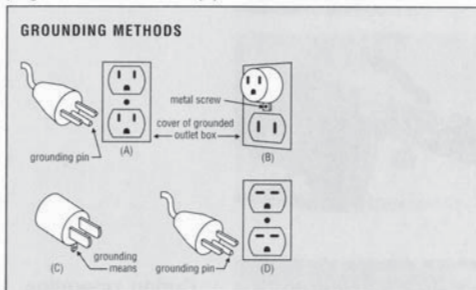
**21.** Only have repairs carried out by recognized electrical specialists. This electric tool/machine complies with respective safety regulations. Repairs may only be carried out by an electrical specialist otherwise an accident hazard for the operator can exist.

**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. Keep proper footing and balance and don't overreach. 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.

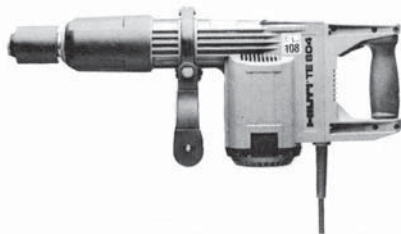
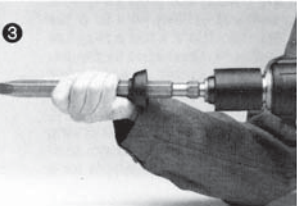
**25. Grounding instructions.** This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a 3-conductor cord and 3-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the 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». If it is for use on 150 to 250 V, it has a plug that looks like that shown in sketch (D). An adapter, see sketches (B) and (C), 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. No adapter is available for a plug as shown in sketch (D).



**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.

Save these instructions.

# Hilti TE 804 Breaker



This Product is Listed by  
**Underwriters Laboratories Inc.**  
and Bears the Mark:



During operation, the sound pressure level may exceed 85 dB (A). In this cases, it may be necessary to take suitable protection against the noise.

**Before starting to work, please read the enclosed safety precautions.**

## Technical data

Power input:	1350 W
Voltage (Version):	100 V, 110 V, 115 V, 230 V, 240 V
Current input:	14.4 A, 14.4 A, 12.5 A, 6.5 A, 6.5 A
Frequency:	50-60 Hz
Machine weight:	10.5 kg / 23.1 lbs
Dimensions:	610 x 230 x 122 mm / 24" x 9" x 4.8"
Hammering speed under load:	2000 blows/min.
Single impact energy:	17 joule / 12.5 ft-lb
Chiselling performance in medium-hard concrete:	1200 cm <sup>3</sup> /min. / 61 in. <sup>3</sup> /min.
Chisels:	Pointed, narrow flat, wide flat, asphalt, flexible, tamping tool, ground rod driver, bushing tool, spade
Chuck type:	TP-22
Permanent lubrication	
Adjustable side handle	
On-off switch for continuous running	
Foam rubber padded grip and side handle	
Automatic cut-out carbon brushes	
Electronic speed (r.p.m.) regulation for greater convenience	

This electric tool is radio and TV interference suppressed in compliance with the EC directives 76/889/EC + 82/499/EC

Radio and TV interference suppression as per EN 55 014 (230 V, 240 V only)

### Remember before starting to work:

The electric supply must be the same as given on the rating plate.

### Cleaning the chisels:

The chuck is not incorporated in the lubricating system of TE 804. Chisel connection end, must, therefore, be cleaned regularly and sprayed sparingly with Hilti lubricant.

**Shorten the start-up time at low temperatures:** by jolting the chisel once against the work surface when switching on.

Right of technical modifications reserved.

## Operation:

### Fig. 1: Important!

Keep insert tool connection end clean and spray sparingly with Hilti lubricant before inserting.

### Fig. 2: Open chuck

Turn the locking sleeve to the left as far as it will go by hand or using the supplied depth gauge rod.

### Fig. 3: Inserting chisel

Insert chisel. Turn locking sleeve to the right as far as it will go. The chisel is now locked in place.

### Fig. 4: Side handle

The side handle is radially and axially adjustable and can be locked in place in any desired position.

### Fig. 5: Beginning work

Switch on the TE 804 and set chisel blade against work surface. It is not necessary to apply constant pressure to the switch for continuous running.

## Servicing:

Electric tools must comply with the respective safety regulations. Servicing must therefore be carried out only by qualified electrical specialists/electricians. An optimum of safety will be ensured if original Hilti spare parts are used.

## Insert tool conditioning:

### Pointed, narrow flat and wide flat chisels:

If the blade is only slightly worn, the chisel can be re-sharpened once without loss of hardness. If wear is heavy or the blade has chipped, it must be reforged, hardened and tempered.

### Reforging

1. Heat a length up to 40 mm / 1½" from the tip to approx. 900 to 1000°C / 1650°F (yellow-red) and forge to given blade shape.
2. After forging, insert blade section into oil, diatomaceous earth, etc. to cool.

### Re-hardening

1. Heat again to approx. 800°C / 1440°F (bright cherry red) in a neutral atmosphere. Higher temperature increases the hardness of the section, lower temperature enlarges the softer core.
2. Quench the hot chisel tip in water with a to and fro movement.

### Tempering

Heat the chisel to 260°C / 500°F to optimize the hardness and toughness for chiseling work.

### Shaped chisels

These are hardened right through and thus only have to be resharpened to the specified angles.

## Chisel grinding angles:

### Pointed chisel



### Narrow flat chisel



### Wide flat chisel



## Warranty

Hilti warrants that the tool supplied is free of defects in material and workmanship. This warranty is valid so long as the tool is operated and handled correctly, cleaned and serviced properly and in accordance with the Hilti Operating Instructions, all warranty claims are made within 12 months from the date of the sale (invoice date), and the technical system is maintained. This means that only original Hilti consumables, components and spare parts may be used in the tool. This warranty provides the free-of-charge repair or replacement of defective parts only. Parts requiring repair or replacement as a result of normal wear and tear are not covered by this warranty.

**Under no circumstances will Hilti be obligated for direct, indirect, incidental or consequential damages, losses or expenses in connection with, or by reason of, the use of, or inability to use the tool for any purpose. Hilti specifically excludes the implied warranties of merchantability and fitness for a particular purpose.**

For repair or replacement, send tool and/or related parts immediately upon discovery of the defect to the address of the local Hilti marketing organization provided.

This constitutes Hilti's entire obligation with regard to warranty and supersedes all prior or contemporaneous comments and oral or written agreements concerning warranties.

## Garantie

Hilti garantit l'appareil livré contre tous vices de matière ou de fabrication. Cette garantie est octroyée à condition que l'appareil soit utilisé et manié correctement, nettoyé et révisé dans les règles, conformément au mode d'emploi Hilti, que toutes réclamations concernant la garantie devront être adressées dans les 12 mois à compter de la date de vente (de la date de la facture) et que le système technique soit maintenu, c.-à-d. sous réserve d'utilisation exclusive dans l'appareil de consommables, composants et de pièces de rechange d'origine Hilti.

La garantie se limite rigoureusement à la réparation gratuite ou au remplacement gracieux des pièces défectueuses. Elle ne couvre pas les pièces soumises à une usure normale.

**Toutes autres prétentions sont exclues, pour autant que des dispositions légales nationales impératives ne s'y opposent pas. En particulier, Hilti ne saurait être tenu responsable, en aucune circonstance, de toutes détériorations, pertes ou dépenses directes, indirectes, accidentelles ou consécutives, en relation ou à cause de l'utilisation ou de l'incapacité à utiliser l'appareil pour quelque but que ce soit. Hilti exclut en particulier les garanties implicites concernant la commercialisation et l'aptitude pour un but bien précis.**

Pour toute réparation ou tout échange, renvoyer l'appareil et/ou les pièces concernées à l'adresse de votre Organisation de Vente Hilti la plus proche, immédiatement après découverte du défaut.

Telles sont les seules obligations d'Hilti en matière de garantie, lesquelles annulent toutes déclarations antérieures ou contemporaines de même que tous accords oraux ou écrits concernant les garanties.

## Garantía

Hilti garantiza el aparato suministrado contra todo vicio de material o de fabricación. Esta garantía se otorga a condición de que el aparato sea utilizado, manejado, limpiado y revisado correctamente en conformidad con el modo de empleo Hilti, de que todas las reclamaciones relacionadas con la garantía sean dirigidas en los 12 meses a contar desde la fecha de venta (de la fecha de facturación) y de que el sistema técnico sea mantenido, es decir a reserva de utilización exclusiva en el aparato de consumibles, componentes y piezas de recambio de origen Hilti. La garantía se limita rigurosamente a la reparación o al reemplazamiento gratuito de las piezas defectuosas. Ella no cubre las piezas sometidas a un desgaste normal.

**Hilti no acepta responsabilidad, en ninguna circunstancia, en relación con deterioros, pérdidas o gastos directos, indirectos, accidentales o consecutivos, en relación con - o a causa de - la utilización o de incapacidad de utilizar el aparato para alguna finalidad, cualquiera que sea la misma. Hilti excluye en particular todas las garantías implícitas relacionadas con la comercialización y la aptitud para una finalidad bien precisa.**

Para toda reparación o recambio, les rogamos envíen el aparato y/o las piezas en cuestión a la dirección de su Organización de Venta Hilti más cercana, inmediatamente tras descubrimiento del defecto.

Estas son las únicas obligaciones de Hilti en materia de garantía, las cuales anulan toda declaración anterior o contemporánea, del mismo modo que todo acuerdo oral o por escrito en relación con las garantías.

### USA

Hilti, Inc.  
5400 South 122<sup>nd</sup> East Avenue  
P.O. Box 21 148  
Tulsa, Oklahoma 74 146  
Telephone (918) 252-6000

### CANADA

Hilti (Canada) Limited / Limitée  
99 Glidden Road  
Bramalea, Ontario L6T2J2  
Telephone (416) 459-8891

### LATIN AMERICA

Hilti Latin America, Ltd.  
5400 South 122<sup>nd</sup> East Avenue  
P.O. Box 21 148  
Tulsa, Oklahoma 74 146  
Telephone (918) 252-6595