



314410

**TE 505**

# Operating instructions

**HILTI**

# Safety precautions for double-insulated 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 – d'ont 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. Replacement Parts.** When servicing use only identical replacement parts.

**26. Polarized Plugs.** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

Save these instructions.

# Hilti TE 505 breaker



Double insulation

## Kit supplied with the machine:

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

## Technical data

Power input:	900 W
Voltage (versions):	115 V, 230 V
Current input:	8.5 A, 4.2 A
Frequency:	50–60 Hz
Machine weight:	5.2 kg (11.5 lbs)
Dimensions:	440×90×210 mm (17.3×3.5×8.3 inch)
Hammering speed under load:	1860/2630 blows/min.
Single impact energy:	2.6 joules / 5.2 joules (1.9 ft lbs / 3.8 lbs)
Chiselling performance in medium-hard concrete:	up to 300 cm <sup>3</sup> /min. with standard SM36 chisel up to 360 cm <sup>3</sup> /min. with light-duty LSM 28 chisel
Chisels:	Pointed, narrow flat, wide flat, extra wide flat, hollow, channel (narrow or wide) scoop, in standard versions and some of light-duty design
Chuck:	TE-Y
Chisel cutting edge adjustment to 12 positions	
Permanent lubrication	
Adjustable side handle	
On/off switch of trigger bull design	
Electronic r.p.m. regulation for improved operating convenience	
Hammering power regulation: max. = 100%, min. = 50%	
Double insulation, class II, CENELEC HD 400	
This electric tool is radio and TV interference suppressed in compliance with the EC directives 76/889/EC + 82/449/EC	
Radio and TV interference suppression as per EN 55 014	
Service indicator with warning lamp	

Right of technical modifications reserved.

This Product is  
UL listed and CSA certified

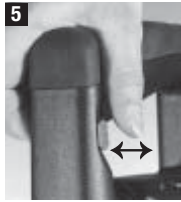
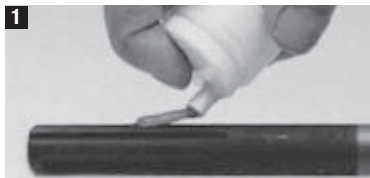


Always wear safety glasses.



**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.**



## Before operating the machine, please note:

When working with the machine, it must be held with two hands. Always make sure that you have a stable stance/foothold.

1. The mains power voltage must comply with the information on the rating plate.
2. The TE505 is double insulated and **must not be grounded/earthed**.
3. Do not apply excessive pressure to the TE 505 – 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 **sparingly** with Hilti grease.

**Fig. 3: Side handle**  
Adjust the side handle as desired and lock it in position.

**Starting time at low temperatures:**  
The starting time (until hammering action operates) 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 connection end, turn it until it clicks into place in the guide grooves and then release the locking sleeve.  
To remove the chisel: Pull back the locking sleeve and remove the chisel.

**Fig. 4: Switching on**  
Set the chisel blade firmly against the work surface and operate the switch.

**Fig. 5: Constant on**  
For constant on operation, keep depressed the trigger switch and press additionally the locking button to the right. To stop the constant on operation, press the locking button to the left.

**Fig. 6: Positioning the chisel blade**  
Turn the switch to the symbol «0». Turn the chisel blade to the desired working position and lock it by switching to the chiseling symbol

**Fig. 7: Regulating the hammering power**  
Set the TE 505 at the symbol « larger hammer 100%» hammering power or at symbol « smaller hammer 50%» hammering power, position the blade firmly on the work surface and chisel.

## Servicing:

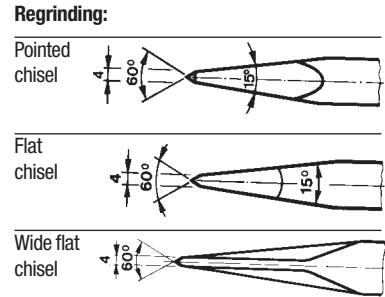
**Fig. 7:**  
The TE 505 is equipped with a service indicator. When the indicator lights up, the machine should be serviced by Hilti. **Failure to service the machine when indicated could result in expensive consequential damage.** Electric tools must comply with the applicable safety regulations. Servicing, therefore, must be carried out only by qualified electrical specialists. The use of original Hilti parts ensures optimum safety.

## Chisel reforging and resharping:

**Resharping:**  
When resharping 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!).

Resharping 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 reformed** but only **resharpened** (ground). The blade is long enough to be resharping several times.



## Manufacturer's warranty – tools

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, 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 over the entire lifespan of the tool. Parts requiring repair or replacement as a result of normal wear and tear are not covered by this warranty.

**Additional claims are excluded, unless stringent national rules prohibit such exclusion. In particular, Hilti is not 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. Implied warranties of merchantability or fitness for a particular purpose are specifically excluded.**

For repair or replacement, send tool 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 constructeur des appareils

Hilti garantit l'appareil contre tout vice de matières et de fabrication. Cette garantie s'applique à condition que l'appareil soit utilisé et manipulé, nettoyé et entretenu correctement, en conformité avec le mode d'emploi Hilti, et que l'intégrité technique soit préservée, c'est-à-dire sous réserve de l'utilisation exclusive de consommables, accessoires et pièces de rechange d'origine Hilti.

Cette garantie se limite strictement à la réparation gratuite ou au remplacement gracieux des pièces défectueuses pendant toute la durée de vie de l'appareil. Elle ne couvre pas les pièces soumises à une usure normale.

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

Pour toute réparation ou tout échange, renvoyer l'appareil ou les pièces concernées au réseau de vente Hilti compétent, sans délai, dès constatation du défaut.

La présente garantie couvre toutes les obligations d'Hilti et annule et remplace toutes les déclarations antérieures ou actuelles, de même que tous accords oraux ou écrits concernant des garanties.

## Garantía del fabricante de las herramientas

Hilti garantiza la herramienta suministrada contra todo fallo de material y de fabricación. Esta garantía se otorga a condición de que la herramienta sea utilizada, manejada, limpiada y revisada en conformidad con el manual de instrucciones de Hilti, y de que el sistema técnico sea salvaguardado, es decir, que se utilicen en la herramienta exclusivamente consumibles, accesorios y piezas de recambio originales de Hilti.

Esta garantía abarca la reparación gratuita o la sustitución sin cargo de las piezas defectuosas durante toda la vida útil de la herramienta. La garantía no cubre las piezas sometidas a un desgaste normal. Hilti será quien defina cuál es el periodo de vida útil de la herramienta, fijando este plazo siempre por encima de lo que marque la ley vigente

**Quedan excluidas otras condiciones que no sean las expuestas, siempre que esta condición no sea contraria a las prescripciones nacionales vigentes. Hilti no acepta la responsabilidad especialmente en relación con deterioros, pérdidas o gastos directos, indirectos, accidentales o consecutivos, en relación con la utilización o a causa de la imposibilidad de utilización de la herramienta para cualquiera de sus finalidades. Quedan excluidas en particular todas las garantías tácitas relacionadas con la utilización y la idoneidad para una finalidad precisa.**

Para toda reparación o recambio, les rogamos que envíen la herramienta o las piezas en cuestión a la dirección de su organización de venta Hilti más cercana inmediatamente después de la constatación 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 todos los acuerdos orales o escritos en relación con las garantías.

# Hilti Corporation

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