

TE 24

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 – 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.

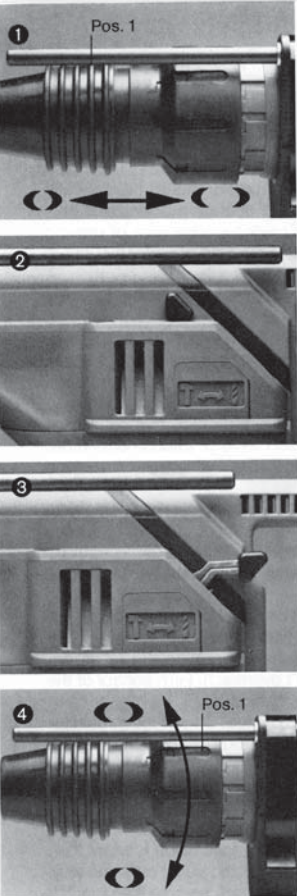
24. Hold Tool by Handle(s) Provided. Do not touch uninsulated parts of tool when drilling. Exposed metal surfaces may be made live if the tool drills into electrical wiring.

25. 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 24 Rotary Hammer Drill



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



Technical data

Input power:	740 W
Voltage (versions):	110 V, 230 V, 240 V
Input current:	7.2 A, 3.5 A, 3.3 A
Frequency:	50–60 Hz
Machine weight:	4.9 kg / 11 lbs
Speed under load:	1 st speed 0–275 r.p.m. 2 nd speed 0–570 r.p.m.
Hammering under load:	0–3180 blows/min.
Single impact energy:	3.0 Joule / 2.2 ft-lb
Drill bits for concrete:	5–32 mm / $\frac{3}{16}$ "– $\frac{3}{16}$ " dia.
Recommended diameter range:	12–20 mm / $\frac{1}{2}$ "– $\frac{3}{4}$ " dia.
Drilling performance in medium-grade concrete with 14 mm dia. drill bit:	40 cm ³ /min. (2.44 in. ³) = 260 mm/min.
TE-C drill bit	5–17.5 mm / $\frac{3}{16}$ "– $\frac{3}{16}$ " dia.
TE-C-S drill bit	18–28 mm / $\frac{5}{8}$ "–1 $\frac{1}{16}$ " dia.
TE-C-GB drill bit	30–32 mm / $\frac{1}{8}$ "–1 $\frac{1}{4}$ " dia.
TE-C-BK percussion core bit	66–90 mm / 2 $\frac{1}{2}$ "–3 $\frac{1}{2}$ " dia.
Chuck type:	TE-C
Automatic cut-out brushes	
Double insulation, class II, CENELEC HD 400	
Radio and T.V. interference suppression as per EN 55 014 (230 V, 240 V only)	
Slip clutch	
Dust-tight enclosure; permanent lubrication (maintenance free)	
Variable speed control switch	
Adjustable side handle with depth gauge	

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.

Right of technical modifications reserved

Remember before starting to work:

1. The electric supply must be the same as given on the TE 24 nameplate.
2. The TE 24 is double insulated and **need not**, therefore, **be grounded** (earthed).
3. Applying excessive pressure will not increase the TE 24's performance. Just position the bit and guide it into the hole.
4. Check that you have set the right speed.

Please refer to the enclosed safety precautions.

Clean the drill bit: The chuck is not incorporated in the lubricating system of the TE 24. Drill bit connection ends must therefore be cleaned regularly and sprayed sparingly with Hilti lubricant.

Shorten the start-up time at low temperatures by jolting the drill bit briefly against the work surface when starting the TE 24.

Operation:

Fig. 1: Insertion of TE-C drill bit/tool

Insert connection end in any position, turn it until the grooves engage and it can be inserted further. Pull back sleeve (1) and push tool as far as it will go. Release sleeve (1).
To remove tool, pull back sleeve (1) and take out tool.

Fig. 2: Rotary hammer drilling

To hammer drill into concrete, masonry

and stone, shift setting lever to indicated rotary hammer drilling position (symbol ).

Fig. 3: Rotary drilling only


Shift setting lever to indicated rotary drilling only position (symbol ). At this setting, only the rotary action is transmitted to the drill bit.

Fig 4: Changing the chuck



Turn sleeve (1) to right (symbol ) and take off complete chuck. When attaching chuck, press on until it touches striker. Turn sleeve (1) to left (symbol ) and lock. Always make sure the chuck is locked properly.

Fig. 5: Selecting the correct speed

If the wrong speed is selected, the life of the TE 24 and drill bit/tool will be shortened. Select the correct speed, as shown in the following table:
1 = low r.p.m., 2 = high r.p.m.

Don't change speeds while the TE 24 is under load.

Recommended speeds:

	1 st speed: 0-275 r.p.m.	2 nd speed: 0-570 r.p.m.
TE-C Drill bit	17-32 mm dia. 5/8"-1 1/4" dia.	5-16 mm dia. 3/16"-9/16" dia.
TE-C-BK Percussion core bit	66-90 mm dia. 2 1/2"-3 1/2" dia.	

Light-duty chiselling

Using an additional chisel adaptor from Hilti, the TE 24 can also be used for light chiselling work in individual cases. Never use a chisel in the TE-C chuck. The rotary action could cause accidents and the life of the TE 24 will be greatly

reduced. Please refer to the separate operating instructions for the chisel adaptor.

Rotary drilling

The TE 24 can also be used for rotary drilling using an additional quick-release chuck from Hilti. Change procedure: a) put quick-release chuck onto striker; b) turn chuck until it snaps into the double spline; c) lock as shown by photo 4.

Servicing:

Electric tools comply with respective safety regulations. Servicing must, therefore, be carried out only by qualified electrical specialists. For your safety, only use original Hilti spare parts.

Double insulation

The Hilti TE 24 Hammer Drill is double-insulated for extra operator protection. The tool is equipped with a two-wire cord and two-prong plug which can be used on standard 115 volts outlets. No grounding of the tool is necessary.

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.

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