

# Instruction Manual TE 24

## Rotary Hammer Drill 3 Wire Grounded Construction

# HILTI



- ① Chuck locking sleeve
- ② Adjustable side handle
- ③ Adjustable depth gauge
- ④ 3 Wire Power Cord
- ⑤ Selector
- ⑥ Variable speed switch
- ⑦ Speed selector lever

### Safety Instructions

#### Warning:

When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

### Technical Data

Current:	7.0 Amps
Voltage:	115 Volts AC
Frequency:	50/60 Hz
Full-load speed:	1 <sup>st</sup> speed 0-275 r.p.m. 2 <sup>nd</sup> speed 0-570 r.p.m.
Percussion:	0-3180 impacts/min.
Single impact energy:	2.2 ft lbs.

### Dimensions

Length without bit:	13 <sup>1</sup> / <sub>8</sub> "
Height:	7 <sup>3</sup> / <sub>4</sub> "
Width:	3 <sup>1</sup> / <sub>2</sub> "
Closest hole to corner:	1 <sup>1</sup> / <sub>8</sub> "
Weight:	11 lbs.
Cord Length:	12 feet

### Features

- Grounded Construction with 3 Wire Power Cord
- Slip Clutch
- Two drilling modes: hammer drilling and drilling only
- 1/2" keyless chuck accepts twist bits for drilling into wood and steel
- Permanent Lubrication
- Three-finger variable speed switch
- Keyless chuck

### Capacity

Drill Bit Range:	
Concrete/Masonry:	3/16"-1 1/4"
Wood/Plastic:	3/16"-1 1/4"
Steel:	3/16"-1/2"

# Read all Instructions

## SAVE THESE INSTRUCTIONS

### 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 gasses.

### 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.

### 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

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 a 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 plugged-in tool with finger on switch. Be sure switch is off when plugging in.

### 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 any 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, mounting, and any other conditions that may affect its operation. Any 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 cords or switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.

### 20. Replacement Parts

When servicing use only identical replacement parts.

### 21. Wear Ear Protectors

Wear ear protectors when using for extended periods.

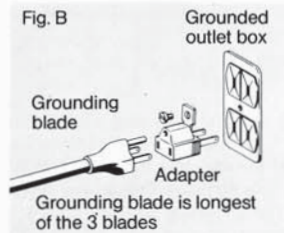
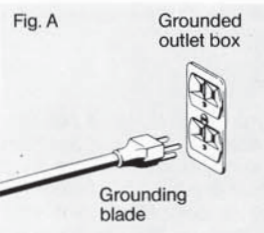
## Grounding

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle (figure A). 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. An adaptor (figure B) is available for connecting the plug to a two prong receptacle. The green-colored rigid ear or lug extending from the adaptor must be connected to a per-

manent ground, such as a properly grounded outlet box.

**Caution:** The metal parts of the drill may be made live if the tool drills into wiring. Only the insulated handles of the TE24 should be contacted when drilling into a wall or other concealed space.



## Extension Cords

Use only three-wire extension cords that have three-prong grounding-type plugs and three-pole receptacles that accept the tool's plug. Use an

extension cord heavy enough to carry the current your tool will draw. An undersized cord will cause a drop in voltage, resulting in loss of power and overheating. The following

table shows the correct size to use depending on cord length. If in doubt, use the next heavier gauge.

**Note:** The smaller the gauge number, the heavier the cord.

Repair or replace damaged cords. See your Hilti salesman for extension cords. The following are recommended American Wire Gauges for your TE24.

Cord length	AWG
up to 100 ft.	14
up to 150 ft.	12
up to 250 ft.	10

## Operation – Set up

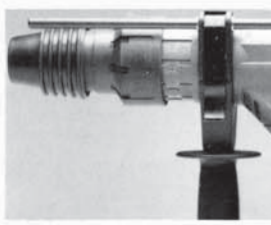
### 1. Power Source:

Before connecting your TE24 to an outlet, insure that the power supply is 115 volts AC, 50/60 Hz.

**Shorten the start-up time at low temperatures** by jolting the drill bit briefly against the work surface when starting the TE24.

### 2. Side Handle and Depth Gauge Adjustment:

The side handle can be moved through 360° and clamped in any desired position. Release the side handle and set the depth gauge to the desired position.



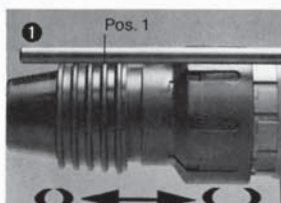
### 3. Chuck Lubrication:

The connection end of the drill bit should be cleaned regularly and sprayed very sparingly with Hilti lubricant.


## Operation – Hammer Drilling

### 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

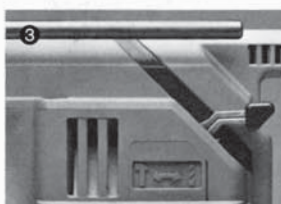
To hammer drill into concrete, masonry and stone, shift setting lever to indicated rotary hammer drilling position (symbol )





## Operation – Rotary Drilling

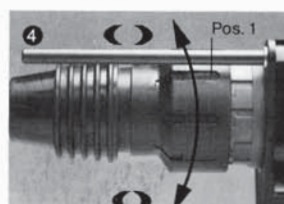
### Fig. 3: Rotary drilling only

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 TE24 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 TE24 is under load.**

### Recommended speeds:

	1 <sup>st</sup> speed:	2 <sup>nd</sup> speed:
	0-275 r.p.m.	0-570 r.p.m.
TE-C Drill bit	5/8"-1 1/4" dia.	3/16"-9/16" dia.



**Note:** A major feature is the infinitely variable speed switch for the RPM and hammering

speed which enables you to drill with pinpoint accuracy.

● Use low drill speed (RPM) for centering the drill bit in the base material.

● Use full speed for drilling the hole.

### Light-duty chiselling

Using an additional chisel adaptor from Hilti, the TE24 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 TE24 will be greatly reduced. Please refer to the separate operating instructions for the chisel adaptor.

### Rotary drilling

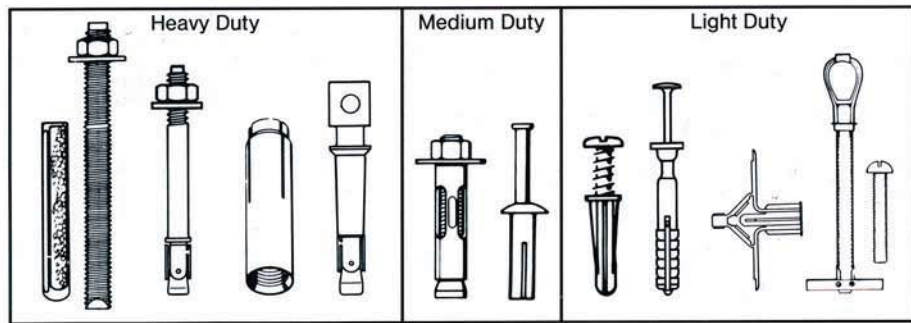
The TE24 can also be used for rotary drilling using an additional quick-release chuck from Hilti. **Change this chuck as under Fig. 4.**

# TE Bit and Anchor Selector Chart

## Setting Tools (HDI Setting Equipment)

HDI Anchor		Manual Setting Device
Size	Description	Item no.
HDI 1/4	<b>HST 6</b>	000603316
HDI 3/8	<b>HST 10</b>	000603332
HDI 1/2	<b>HST 12</b>	000614198
HDI 5/8	<b>HST 16</b>	000603357
HDI 3/4	<b>HST 20</b>	000603365

HST (Hand Setting Tool)



## Bits

Item no.	Description	Dia- meter	Length	Effective Drilling Depth	Anchors									
					HVA	Kwik-- Bolt II	HDI Drop in	HKT-II 14	Sleeve Anchor	Metal Hit	Plastic Screw Anchor	HPS	Kwik Tog	Toggler Bolt



000280248	<b>TE-C<sup>+</sup>-3/16-5</b>	3/16"	5"	3"	-	-	-	-	3/16	3/16	3/16	3/16	-	-
000280255	<b>TE-C<sup>+</sup>-1/4-4</b>	1/4"	4"	2"	-	1/4	-	1/4	1/4	1/4	1/4	1/4	-	-
000280263	<b>TE-C<sup>+</sup>-1/4-6</b>	1/4"	6"	3 1/2"	-	1/4	-	1/4	3/16	1/4	1/4	1/4	-	-
000280271	<b>TE-C<sup>+</sup>-1/4-8</b>	1/4"	8"	5 1/2"	-	1/4	-	1/4	1/4	1/4	1/4	1/4	-	-



000280289	<b>TE-C<sup>+</sup>-5/16-6</b>	5/16"	6"	3 1/2"	-	-	-	-	5/16	-	-	5/16	-	-
000280297	<b>TE-C<sup>+</sup>-5/16-12</b>	5/16"	12"	9 1/2"	-	-	-	-	5/16	-	-	5/16	-	-
000280305	<b>TE-C<sup>+</sup>-3/8-6</b>	3/8"	6"	3 1/2"	-	3/8	1/4	-	3/8	-	-	-	KT-2	-
000280313	<b>TE-C<sup>+</sup>-3/8-12</b>	3/8"	12"	9 1/2"	-	3/8	1/4	-	3/8	-	-	-	KT-3	-
													KT-4	-
000280321	<b>TE-C<sup>+</sup>-7/16-6</b>	7/16"	6"	3 1/2"	-	-	-	-	-	-	-	-	-	-
000280339	<b>TE-C<sup>+</sup>-7/16-12</b>	7/16"	12"	9 1/2"	-	-	-	-	-	-	-	-	-	-
000280347	<b>TE-C<sup>+</sup>-7/16-18</b>	7/16"	18"	15 1/4"	-	-	-	-	-	-	-	-	-	-
000280355	<b>TE-C<sup>+</sup>-1 1/32-6</b>	1 1/32"	6"	3 1/2"	-	-	-	-	-	-	-	-	-	-
000280362	<b>TE-C<sup>+</sup>-1 1/32-12</b>	1 1/32"	12"	9 1/2"	3/8	-	-	-	-	-	-	-	-	-
000280370	<b>TE-C<sup>+</sup>-1/2-6</b>	1/2"	6"	3 1/2"	-	1/2	3/8	-	1/2	-	-	-	-	3/16 1/2
000280388	<b>TE-C<sup>+</sup>-1/2-12</b>	1/2"	12"	9 1/2"	-	1/2	3/8	-	1/2	-	-	-	-	3/16 1/2
000280396	<b>TE-C<sup>+</sup>-1/2-18*</b>	1/2"	18"	15 1/4"	-	1/2	3/8	-	1/2	-	-	-	-	3/16 1/2
000280404	<b>TE-C<sup>+</sup>-9/16-6</b>	9/16"	6"	3 1/2"	-	-	-	-	-	-	-	-	-	-
000280412	<b>TE-C<sup>+</sup>-9/16-12*</b>	9/16"	12"	9 1/2"	1/2	-	-	-	-	-	-	-	-	-
000280420	<b>TE-C<sup>+</sup>-9/16-18*</b>	9/16"	18"	15 1/4"	1/2	-	-	-	-	-	-	-	-	-



000280438	<b>TE-C<sup>+</sup>-5/8-8</b>	5/8"	8"	5 1/2"	-	5/8	1/2	-	5/8	-	-	-	-	-
000280446	<b>TE-C<sup>+</sup>-5/8-12*</b>	5/8"	12"	9 1/2"	-	5/8	1/2	-	5/8	-	-	-	-	-
000280453	<b>TE-C<sup>+</sup>-5/8-18*</b>	5/8"	18"	15 1/4"	-	5/8	1/2	-	5/8	-	-	-	-	-
000280461	<b>TE-C<sup>+</sup>-1 1/16-6*</b>	1 1/16"	6"	3 1/2"	-	-	-	-	-	-	-	-	-	-
000280479	<b>TE-C<sup>+</sup>-1 1/16-12*</b>	1 1/16"	12"	9 1/2"	5/8	-	-	-	-	-	-	-	-	-
000280487	<b>TE-C<sup>+</sup>-1 1/16-18</b>	1 1/16"	18"	15 1/4"	-	-	-	-	-	-	-	-	-	-
000280495	<b>TE-C<sup>+</sup>-3/4-8*</b>	3/4"	8"	5 1/2"	-	3/4	-	-	3/4	-	-	-	-	3/8 1/2
000280503	<b>TE-C<sup>+</sup>-3/4-12*</b>	3/4"	12"	9 1/2"	-	3/4	-	-	3/4	-	-	-	-	3/8 1/2
000280511	<b>TE-C<sup>+</sup>-3/4-18*</b>	3/4"	18"	15 1/4"	-	3/4	-	-	3/4	-	-	-	-	3/8 1/2
000280529	<b>TE-C<sup>+</sup>-13/16-6*</b>	13/16"	6"	3 1/2"	-	-	-	-	-	-	-	-	-	-
000280537	<b>TE-C<sup>+</sup>-13/16-18*</b>	13/16"	18"	15 1/4"	-	-	-	-	-	-	-	-	-	-
000280545	<b>TE-C<sup>+</sup>-27/32-6*</b>	27/32"	6"	3 1/2"	-	-	5/8	-	-	-	-	-	-	-
000280552	<b>TE-C<sup>+</sup>-27/32-12*</b>	27/32"	12"	9 1/2"	-	-	5/8	-	-	-	-	-	-	-
000280560	<b>TE-C<sup>+</sup>-7/8-10*</b>	7/8"	10"	7 1/2"	3/4	-	-	-	-	-	-	-	-	-
000280578	<b>TE-C<sup>+</sup>-7/8-18*</b>	7/8"	18"	15 1/4"	3/4	-	-	-	-	-	-	-	-	-
000280586	<b>TE-C<sup>+</sup>-1-10*</b>	1"	10"	7 1/2"	7/8	1	3/4	-	-	-	-	-	-	-
000280594	<b>TE-C<sup>+</sup>-1-18*</b>	1"	18"	15 1/4"	7/8	1	3/4	-	-	-	-	-	-	-
000280602	<b>TE-C<sup>+</sup>-1-27*</b>	1"	27"	24 1/4"	7/8	1	3/4	-	-	-	-	-	-	-

## TE-C-GB Cruciform Bits



000284091	<b>TE-C-BG 1 1/8-18</b>	1 1/8"	18"	14"	All	All	All	All	All	All	All	All	All	All
000284125	<b>TE-C-BG 1 1/4-10</b>	1 1/4"	18"	6"	All	All	All	All	All	All	All	All	All	All
000284133	<b>TE-C-BG 1 1/4-18</b>	1 1/4"	18"	14"	All	All	All	All	All	All	All	All	All	All

## Keyless Chuck

Optional chuck for drilling in wood/steel or plastic using smooth shank bits.



Item no.	Description	For use with:
000302018	1/2" Keyless Chuck	Smooth Shank Bits to 1/2" Diameter

Bit/Accessory Letter Code: Code = Drill	TE-C (SDS-Plus) = TE10/TE10A/TE12/TE12S/TE14/TE17/TE18/ TE-C TE22/TE22-P/GP22
	* These bits for TE12S/TE14/TE17/TE18/TE22/TE22-P/GP22

## Servicing

All repairs and adjustments to the Hilti TE 24 including inspection and replacement of brushes, switch, and power cord, should be performed at a Hilti-Repair Center. When servicing use only identical replacement parts, as shown on the parts list.

## Preventive maintenance

Check for worn or frayed cord. Keep the air passages for the motor clear of dirt and dust. The TE 24 is permanently lubricated.

## Warranty

This new fastening tool is a quality product of Hilti. It has been developed through study and research into the fastening methods and applications of the building industry and associated trades. Every reasonable precaution has been taken in the manufacture of this tool to assure its compliance with Hilti's standards of high quality. Consultation on the operation and maintenance of the tool is available from our Territory Salesman. **1 Year Limited Warranty:** For 1 year from the date of shipment, the original purchaser of the tool will not be charged for the parts and labor required to correct defects in material and workmanship provided the tool is returned to Hilti for servicing

and inspection, the serial number has not been removed or defaced, only Hilti compatible bits and Hilti parts have been used with the tool, and no unauthorized servicing has been performed. The warranty does not cover normal wear and tear and the cost of shipping and insurance.

**This is the only warranty or guarantee made by Hilti and it is given in lieu of all other warranties, including implied warranties of merchantability and of fitness for a particular purpose. Under no circumstances will Hilti be obligated for damages, losses or expenses in connection with or by reason of, the use of, or inability to use the tool for any purpose.**



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