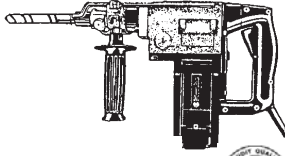


**HILTI TE76  
COMBI-HAMMER  
110/230v**



# SAFETY INSTRUCTIONS

1. It is important to read all of this leaflet before you use the Hilti TE76 heavy duty combi-hammer.
2. Electricity can be hazardous and must always be used with great care.
3. This machine produces high vibration while in operation — see the Leaflet headed “Vibration —reducing the risk”.
4. This Hilti combi-hammer is designed for hammer drilling, including core drilling, in concrete, brickwork or natural stone, for conventional drilling in wood and metal with the hammer action switched off, and for light chiselling of masonry with the rotary action switched off. Each different task will require the appropriate bit or chisel.
5. This is a heavy powerful two-handed tool, it may cause injury to persons or damage to property if it is not handled and used carefully and properly.
6. If you have not used a Hilti TE76 before, familiarise yourself with the machine on some straightforward work before you start on the main task.
7. Plan each job and try to foresee any problems that may occur so that you can safely work around them.
8. You must have at least the following items of personal protective equipment:



**Impact resistant goggles —  
EN166-B or BS2092 grade 1**



**Ear muffs or plugs giving  
protection for levels up to  
100dB(A)**



**Dust mask — a minimum of  
EN149 ffp2(s) protection**



**Gloves**



**Rcd if using a 230 volt  
(mains) supply**

9. This tool must not be used by minors, or by anyone under the influence of drugs or alcohol.
10. This equipment is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.

## Before you Start Work

1. In cold conditions, make sure that you are warm before you start work — and that you will be able to keep warm and dry through the day. It is especially important to think about keeping your hands warm. Wearing gloves can help. Ask your supervisor or the hire company if you need gloves.
2. Check that you have the right equipment for the job. Forcing this combi-hammer to do work it was not designed for may cause more vibration, you may have to grip it tighter to control it, and suffer more

vibration. Talk to the hire company about the job that you plan to do, to check if you have suitable equipment.

3. Make sure that the equipment is in good condition: for example that the tool bits are sharp and not worn out or damaged.

### **While you're working**

4. Keep warm; especially your hands.
5. While using the machine, make sure you hold it firmly — maintain pressure so that the hammer action is used efficiently to drill the hole, or chisel the masonry, instead of numbing your hands with the vibration.
6. Take short breaks regularly. Exercise your hands and fingers to keep them warm and flexible.
7. If you have any persistent tingling or numbness in your fingers or hands — tell your supervisor. Show them this leaflet. If you are self-employed, you should consider seeing a doctor.
8. If the equipment is faulty or is not suitable, arrange with the hire company or your supervisor to have this put right now so that you have suitable equipment available as soon as practical.
9. In cold conditions, store the equipment where it will be safe and warm overnight, and operate the motor for a few minutes to warm it up before you start work the next day.

### **Work Area**

1. Do not use this Hilti TE76 where there is a danger of explosion. It will ignite fumes from petrol or gas cylinders.
2. Make sure that the area is clear and safe and that no-one is near to you or could distract you.
3. Protect other people from the noise, debris and dust. Warn others to keep away, put barriers around your work area.
4. Check that there are no hidden electric cables, gas or water pipes where you are working.
5. This machine can make a lot of dust and debris — you may need to protect surfaces or objects that may be damaged, or difficult to clean.

### **Operators**

6. The following items of personal protective equipment (ppe) are the minimum that should be worn whenever you use this machine. Particular jobs or environments may require a higher level of protection.
7. You must wear impact resistant goggles (EN166-B or BS2092 grade 1) when you are working with this machine.
8. This equipment is likely to cause noise levels up to 100dB(A) — wear appropriate ear muffs or plugs giving hearing protection for this level as a minimum.
9. You will need to wear an appropriate dust mask (with a minimum of EN149 ffp2(s) protection) when you are working with material that causes dust.
10. Anybody who is working near to you will also need to wear appropriate personal protective equipment.

### **Hilti TE76**

11. Check your machine, cable, plug and accessories. If anything is found damaged, do not use the equipment — contact Torrent Trackside 24 Hour Hotline Number 0845 7697168.
12. Check that the plug on your machine matches your supply. Do not try to force connections or improvise them.
13. Machines with a cylindrical yellow industrial plug fitted are designed to run off a special 110v supply. The hire company will have provided a portable transformer if you need to power the machine from a normal mains 230v supply. If a portable transformer has been supplied, take care not to injure yourself when moving it about — it may be heavier than you think. Machines designed to run directly from 230v mains will have either a normal square pin plug fitted, or a blue industrial plug.
14. This machine has a speed sensitive trigger that allows it to operate slowly if the trigger is squeezed gently in order to start the drilling or chiselling. Increased pressure on the trigger will increase the speed of the machine.
15. The switch to select rotary ON/OFF and hammer ON/OFF is on the left side above the motor housing.
16. To use this machine as a heavy-duty hammer-drill, switch the rotary action and the hammer action on.
17. To use it as a heavy-duty drilling machine for wood or metal, you must switch the hammer action off.
18. To use it as a chiselling machine you must switch the rotary action off.
19. The trigger lock is only operative when the rotary action is switched OFF. It is located in the top of the handle and will only allow you to lock the trigger ON when you are chiselling.

20. Depending on the nature of your task you may need to select full impact or half impact. The impact selector switch is located on the left side at the rear of the motor housing.
21. The Hilti TE76 has a small signal lamp just above the impact selector switch. When lit it indicates that the next service is due, contact the hire company.
22. Check on how all the controls operate — before you switch the tool on, you must know how to control it and switch it off.

### **Drilling and Chiselling Drill Bits**

1. Switch the tool off, and unplug it before changing the bit.
2. This machine uses only Hilti TE-Y system (sds max) drill bits and chisels.
3. To insert a tool bit, push the cleaned shank into the arbor and twist it until it locks, check insertion by trying to pull the shank out.
4. To remove a tool bit, slide and hold the locking ring located behind the arbor towards the rear of the machine. The tool bit should then pull out.
5. This machine, can drill up to 40mm (1 9/16") diameter into masonry using tungsten carbide tipped drill bits.

### **Core Drill Bits**

6. The Hilti TE76 can drill up to 150mm (6") diameter into masonry using tungsten carbide tipped core drill bits.
7. Large core drills use a pilot drill within the core bit to keep the core bit central while starting.
8. The pilot bit should be removed from the core bit once the hole has a good start. The rest of the core can be drilled without the pilot bit.
9. The pilot bit may have a taper shank and will require a special drift tool to remove it.
10. The pilot bit may have a larger diameter boss on the shank, with a drive peg that locates in a slot in the core bit, this pilot bit can be just pulled from the core bit.

### **Chisels**

11. With hammer action ON and rotary action OFF the equipment can be used with various chisels, including pointed, flat, hollow, channel, and mortar chisels.
12. The chisels can be set within the arbor so that the flat blade is at the angle you require and the machine can be held in its normal operating position.

### **Accessories**

13. A depth gauge is provided to facilitate drilling to the correct depth.
14. An extension bar can be used to extend the overall length of the core drill/drilling machine combination.
15. Use only the correct bits and chisels specifically for this combi-hammer. Do not try to improvise using non-standard bits.
16. A keyless chuck is also available to enable you to use straight shank drills up to 32mm (1 1/4") diameter in wood or metal.
17. The hammer action must be switched off when using the chuck.

### **Electrical Safety**

Your machine will only operate on one voltage: it will be 110v or 230v. 110v machines will have a yellow industrial plug fitted. 230v machines will have either a normal square pin plug fitted, or a blue industrial plug.

### **110 Volt Machines (yellow plug)**

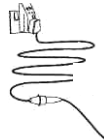
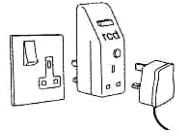
1. If you are using a portable transformer, plug the transformer directly into the 230v socket. Do not use any 230v extension cables.
2. If you need to use an extension cable, follow any special instructions given by the hire company. If the hire company have not given any special instructions, you should only use a suitably rated heavy duty 110v extension cable, not longer than 50 metres (160 feet). You must only use an extension cable between the transformer and the machine.



3. Lay the extension cable out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
4. Make sure that any extension cable connections are dry and safe.

### 230 Volt Machines (square pin or blue plug)

1. Use a residual current device (rcd) plugged directly in to the 230v socket. Plug your machine into the rcd. This will help to protect you against electric shock if the cable or machine get damaged.
2. Use the "TEST" button to check that the rcd is working each time you use it. Reset the rcd according to the instructions supplied with it.
3. If you need an extension cable, follow any special instructions given by the hire company. If the hire company have not given any special instructions, you should only use a suitably rated heavy duty one, not longer than 50 metres (160 feet). Plug it directly into the rcd.
4. Lay it out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
5. Make sure that any extension cable connections are dry and safe.



### Using the TE76

1. Wear your protective equipment including ear defenders and goggles.
2. Adjust the side handle to the best position so that you can always hold the machine securely with two hands. The ON/OFF trigger can be controlled with right or left hand.
3. If the material being worked is not large enough to be secure or is not part of a fixture, it should be securely clamped or held in a vice.
4. Take care when using larger drills — if the bit jams, the machine will kick back and rotate out of your grasp. This can cause serious hand or wrist injury.
5. Do not try to change speed, or direction of rotation, or switch the hammer action on or off, while the machine is running.
6. Keep the cable clear of the tool bit and any sharp edges on your work.
7. If you think the cable may be cut or damaged in any way, switch off and unplug at the mains before inspecting it. If the cable attached to the equipment is damaged, stop using the machine. Contact Torrent Trackside 24 Hour Hotline Number 0845 7697168. If an extension cable has been damaged, do not use it again.
8. Take care not to accidentally pull the plug from the socket.
9. Switch off and unplug before leaving the equipment unattended. Remember to keep the equipment secure from theft or damage.
10. If your equipment does not work properly do not attempt to repair it. Contact Torrent Trackside 24 Hour Hotline Number 0845 7697168.
11. You may want to read this leaflet again. Please keep it until you finish work.

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<b>GLASGOW:</b>	<b>0141 771 3337</b>
<b>BOLTON:</b>	<b>01204 371144</b>
<b>ROTHERHAM:</b>	<b>01709 558111</b>
<b>LICHFIELD:</b>	<b>01543 421900</b>
<b>BRISTOL:</b>	<b>0117 982 6622</b>
<b>HARLOW:</b>	<b>01279 423147</b>
<b>MAIDSTONE:</b>	<b>01622 710500</b>
<b>HOTLINE NUMBER:</b>	<b>0845 7697168</b>