

2. Description

The tool is an electrically powered rotary hammer with pneumatic hammering mechanism. The tool is intended for professional use.

2.1 Use of the tool as intended

The tool is designed for drilling in concrete and masonry.

The tool may also be used for light chiseling work on masonry and for finishing concrete surfaces.

The working environment may be on a construction site or in a workshop and the tool may be used for renovation, conversion or new building work.

The tool may be operated only when connected to a power supply providing a voltage and frequency in compliance with the information given on its rating plate.

Changes or modifications to the tool are not permissible.

To avoid the risk of injury, use only original Hilti accessories and additional equipment. Observe the information printed in the operating instructions concerning operation, care and maintenance. The tool and its ancillary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed.

2.2 Chucks

- TE-C (SDS plus) chuck
- TE-T (SDS top) chuck

2.3 Switches

2.3.1 switches on the TE 16

Speed control switch for smooth starting.

Function selector switch for:

- Drilling without hammering
- Hammer drilling

2.3.2 switches on the TE 16-C

Speed control switch for smooth starting.

Function selector switch for:

- Drilling without hammering
- Hammer drilling
- Chisel adjustment (12 positions)
- Chiseling

2.3.3 switches on the TE 16-M

Speed control switch for smooth starting.

Function selector switch for:

- Drilling without hammering 2
- Drilling without hammering 1
- Hammer drilling
- Chisel adjustment (12 positions)
- Chiseling

2.4 Grips

- Adjustable side handle with depth gauge
- Vibration-absorbing grip

2.5 Protective devices

- Mechanical slip clutch

2.6 Lubrication

- Oil lubrication

2.7 Items supplied as standard

- The electric tool
- TE-C or TE-T chuck
- Side handle with depth gauge
- Operating instructions
- Toolbox
- Cleaning cloth
- Grease
- Dust shield

3. Tools and accessories

	TE 16	TE 16-C	TE 16-M
Chuck	TE-C (SDS plus)	TE-C (SDS plus)	TE-C (SDS plus)
Chuck	TE-T (SDS top)	TE-T (SDS top)	TE-T (SDS top)
Hammer drill bits	5–25 mm dia.		
Percussion core bits	66–90 mm dia. (TE-C) 50–90 mm dia. (TE-T)		
Formwork and installation drill bits	10–35 mm dia. (TE-C)		
Lightweight percussion core bits for masonry	25–68 mm dia. (TE-C)		
Multi-purpose hole saws	35–105 mm dia. (hex. connection end)		

Chisels	Pointed, flat and shaped chisels with TE-C or TE-T connection end
Setting tools	Setting tools with TE-C or TE-T connection end
Quick-release chucks	Quick-release chucks 282341 and 282342 for wood and metal drill bits with cylindrical or hex. connection end
Wood drill bits	5–25 mm dia.
Metal drill bits	up to 13 mm dia.
Stepped drill bits for metal	3–8 mm dia. (2nd gear) 8–13 mm dia. (1st gear)
Mixing paddles for non-flammable substances	(hex. connection end) 80–150 mm dia. mixing paddles with cylindrical shank
Dust removal system	TE DRS-S
Theft protection system (available as option)	TPS

4. Technical data

Tool	TE 16	TE 16-C	TE 16-M
Rated power input	800 W	800 W	850 W
Rated voltage/rated current input	100 V / 8.2 A 110 V / 7.3 A 110–127 V / 6.8 A 120 V / 6.8 A 230 V / 3.8 A 230 V / 3.6 A 240 V / 3.5 A	100 V / 8.2 A 110 V / 7.3 A 110–127 V / 6.8 A 120 V / 6.8 A 230 V / 3.8 A 230 V / 3.6 A 240 V / 3.5 A	100 V / 11.0 A 110 V / 10.0 A 110–127 V / 10.0 A 120 V / 9.2 A 230 V / 5.0 A 230 V / 4.8 A 240 V / 4.6 A
Mains frequency	50–60 Hz	50–60 Hz	50–60 Hz
Weight of tool	3.8 kg	3.85 kg	4.05 kg
Dimensions (L x W x H)	360 x 90 x 210 mm	360 x 90 x 210 mm	370 x 90 x 210 mm
Drilling speed without hammering, position 2			1100 r.p.m.
Drilling speed without hammering, position 1	750 r.p.m.	750 r.p.m.	750 r.p.m.
Hammer drilling speed	750 r.p.m.	750 r.p.m.	750 r.p.m.
Single impact energy	3.2 J	3.2 J	3.2 J
Chuck	TE-C (SDS plus)/TE-T (SDS top)		
Drilling dia. range in concrete/masonry (hammer drilling)	5–28 mm dia.		
Percussion core bits	66–90 mm dia.		
Drilling dia. range with drill bits for wood	5–20 mm dia.		
Drilling dia. range with drill bits for metal	max. 13 mm dia.		
Drilling dia. range in medium-hard concrete	16 mm dia./72 cm ³ /min		
Double insulated (in accordance with EN 50144)	Protection class II Z		
Mechanical slip clutch			



Vibration absorbing grip and side handle	
Interference immunity	in accordance with EN 55014-2
Radio and television interference suppression	in accordance with EN 55014-1
Noise and vibration information (measured in accordance with EN 50144):	
Typical A-weighted sound power level (L _{WA}):	102 dB (A)
Typical A-weighted sound power level (L _{pA}):	89 dB (A)
Wear ear protection!	
Typical weighted vibration at the grips	9,5 m/s ² 9 m/s ²

Right of technical changes reserved

5. Safety precautions

5.1 Basic information concerning safety

CAUTION: To avoid the risk of electric shock, injury or fire, the following basic safety precautions must always be observed when using electric tools.

Read all safety precautions and instructions before using this tool.

5.2 Safety precautions at the workplace



- Ensure that the workplace is well lit.
- Ensure that the workplace is well ventilated.
- Keep the workplace tidy. Objects which could cause injury should be removed from the working area. Untidiness at the workplace can lead to accidents.
- Secure the workpiece. Use clamps or a vice to hold the workpiece in place. The workpiece is thus held more securely than by hand and both hands remain free to operate the tool.
- Wear eye protection.
- Wear breathing protection if the work creates dust.
- Wear suitable working clothing. Do not wear loose clothing, loose long hair or jewelry as it can become caught up in moving parts. Wear suitable headgear if you have long hair.
- It is recommended that protective gloves and non-slip shoes are worn when working outdoors.
- Keep children and other persons away from the working area.
- Do not allow other persons to tamper with the tool or the supply cord.
- Avoid unfavorable body positions. Work from a secure stance and stay in balance at all times.

- Connect the dust extraction system. Check that this system is connected and used correctly.
- To avoid tripping and falling when working, always lead the supply cord, extension cord and dust extraction hose away to the rear.
- Concealed electric cables or gas and water pipes present a serious hazard if damaged while you are working. Accordingly, check the area in which you are working beforehand (e.g. using a metal detector). External metal parts of the tool may become live, for example, when an electric cable is drilled into inadvertently.

5.3 General safety precautions



- Use the right tool for the job. Do not use the tool for purposes for which it was not intended. Use the tool only as directed and when it is in faultless condition.
- Avoid contact with rotating parts.
- Use only the original accessories or ancillary equipment listed in the operating instructions. Use of accessories or items of ancillary equipment other than those listed in the operating instructions may present a risk of personal injury.
- Take the influences of the surrounding area into account. Do not expose the tool to rain or snow and do not use it in damp or wet conditions. Do not use the tool where there is a risk of fire or explosion.
- Keep the grips clean, dry and free from oil and grease.
- Do not overload the tool. It will work more efficiently and more safely within its intended performance range.
- Always hold the tool securely with both hands on the grips provided.