



TRUTEKTM
CONSTRUCTION FASTENING SYSTEMS



TRH20

BRUSHLESS ROTARY HAMMER

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English

General Power Tool Safety Warnings

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or

hearing protection used for appropriate conditions will reduce personal injuries.

- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Battery tool use and care

1. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

6)Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

CORDLESS ROTARY HAMMER SAFETY WARNINGS

1. Wear ear protectors. Exposure to noise can cause hearing loss.
2. Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
3. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
4. Wear a hard hat (safety helmet), safety glasses and/or face shield. Ordinary eye or sun glasses are NOT safety glasses. It is also highly recommended that you wear a dust mask and thickly padded gloves.
5. Be sure the bit is secured in place before operation.
6. Under normal operation, the tool is designed to produce vibration. The screws can come loose easily, causing a breakdown or accident. Check tightness of screws carefully before operation.
7. In cold weather or when the tool has not been used for a long time, let the tool warm up for a while by operating it under no load. This will loosen up the lubrication. Without proper warm-up, hammering operation is difficult.
8. Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
9. Hold the tool firmly with both hands.
10. Keep hands away from moving parts.
11. Do not leave the tool running. Operate the tool only when hand held.
12. Do not point the tool at any one in the area when operating. The bit could fly out and injure someone seriously.

13. Do not touch the bit, parts close to the bit, or workpiece immediately after operation; they may be extremely hot and could burn your skin.

14. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data. Product Description and Specifications

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. While reading the operating instructions, unfold the graphics page for the machine and leave it open.

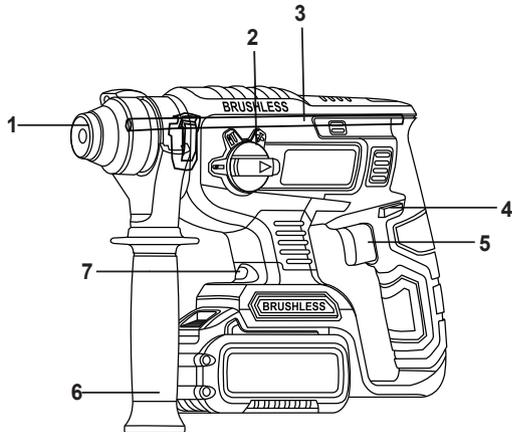
Intended Use

The machine is intended for driving in and loosening screws as well as for drilling in wood, metal, ceramic and plastic.

The light of this power tool is intended to illuminate the power tool's direct area of working operation and is not suitable for household room illumination

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.



- 1 SDS Plus Drill Chuck
- 2 Mode Selector
- 3 Depth Rod
- 4 Direction-of-Rotation (forward/center-lock/reverse) Selector
- 5 Variable-Speed Trigger Switch
- 6 Auxiliary Handle
- 7 LED working light

Technical Data

Rated voltage	DC 21V
No load speed	0-1500 min ⁻¹
Impact rate	0-4500 bpm
Impact Power	2.0J
Drill capacity	20mm
Weight(bare tool)	1.26Kg

Assembly

Swivelling the auxiliary handle

You can swivel the auxiliary handle to any angle for a safe work posture that minimises fatigue.

- Turn the lower gripping end of the auxiliary handle anticlockwise and swivel the auxiliary handle into the required position. Then turn the lower gripping end of the auxiliary handle clockwise to retighten it. Make sure that the retaining strap of the auxiliary handle slots into the corresponding groove of the housing.



Depth Rod

-Depress the upper part of the quick clamp, then insert the depth rod through the hole. Make sure that the rippled part is facing down.

-Align the tip of the depth rod with the drill tip. Now pull the depth rod back a length equal to the required drilling depth.

-Release the quick clamp to lock the depth rod in position.



Install and Remove Accessories

WARNING: Do not use bits with a damaged shank.

Your tool is equipped with an SDS Plus chuck. Lock the trigger switch "OFF" on the tool by placing the direction-of-rotation selector in the center position.

To install the accessory:

For SDS+ accessories:

- Clean the accessory and lightly lubricate it before inserting it into the chuck.
- Insert the accessory in the SDS+ chuck while turning and pushing it until it engages; the accessory locks in position automatically

To remove the accessory:

- Pull back the locking sleeve and remove the accessory from the chuck.

NOTE: The SDS+ accessory requires freedom of movement, which causes eccentricity in the revolutions when the tool is off-load; however, the accessory automatically centers itself during operation without affecting drilling precision.

WARNING: Use protective gloves when removing the bit from the tool, or first allow the bit to cool down. The bit may be hot after prolonged use.



Working Angle Adjustment for Chisel Bits

Choose a position which is best suited for your operation. The position is intended for use with chisel bits such as bull points, spades, gouges, etc. Turn

the mode selector to the symbol .

Next, rotate the locking sleeve, along with the accessory, to the desired position. Then turn the mode selector to the "hammer only" setting. Then make sure that the chisel is securely held in place by rotating it slightly



Operation

Setting the Operating Mode

The operating mode of the power tool is selected using the impact/mode selector switch.

– To change the operating mode, press the release button and turn the impact/mode selector switch until it clicks into the required position.

Note: Only change the operating mode when the power tool is switched off. Otherwise, the power tool may become damaged.



Position for hammer drilling into concrete or stone



Position for drilling without impact in wood, metal, ceramic and plastic and for screw driving



Vario-Lock position for adjusting the chisel position. The impact/mode selector switch will not engage in this position



Position for chiselling

Setting the Rotational Direction

The rotational direction switch is used to change the rotational direction of the power tool. However, this is not possible while the on/off switch is being pressed.

Only operate the rotational direction switch when the power tool is not in use. Always set the rotational direction to clockwise rotation for hammer drilling, drilling and chiselling.

- Clockwise: To drill and to drive in screws, press the rotational direction switch all the way to the left.
- Anticlockwise: To loosen and unscrew screws and nuts, press the rotational direction switch all the way to the right.

Switching On and Off

- If necessary, release the lock-on button for the on/off switch.
- To switch on the power tool, press the on/off switch.

The worklight lights up when the on/off switch is lightly or fully pressed, allowing the work area to be illuminated in poor lighting conditions.

- To switch off the power tool, release the on/off switch.

For low temperatures, the power tool reaches the full hammer/impact capacity only after a certain time.

Adjusting the Speed/Impact Rate

- Adjust the speed/impact rate of the power tool when it is on by pressing in the on/off switch to varying extents.

Applying light pressure to the on/off switch results in a low rotational speed/impact rate. Applying increasing pressure to the switch increases the speed/impact rate.

Overload clutch

If the application tool jams or snags, the power transmission to the drill spindle will be interrupted. Always hold the power tool firmly with both hands to with

stand the forces this may create and adopt a position with stable footing. Switch the power tool off immediately and remove the application tool if the power tool becomes blocked. Switching on when the drilling tool is blocked may cause high torque reactions

Maintenance and Cleaning

Before any work on the machine itself (e. g. maintenance, tool change, etc.) as well as during transport and storage, remove the battery from the power tool.

There is danger of injury when unintentionally actuating the On/Off switch.

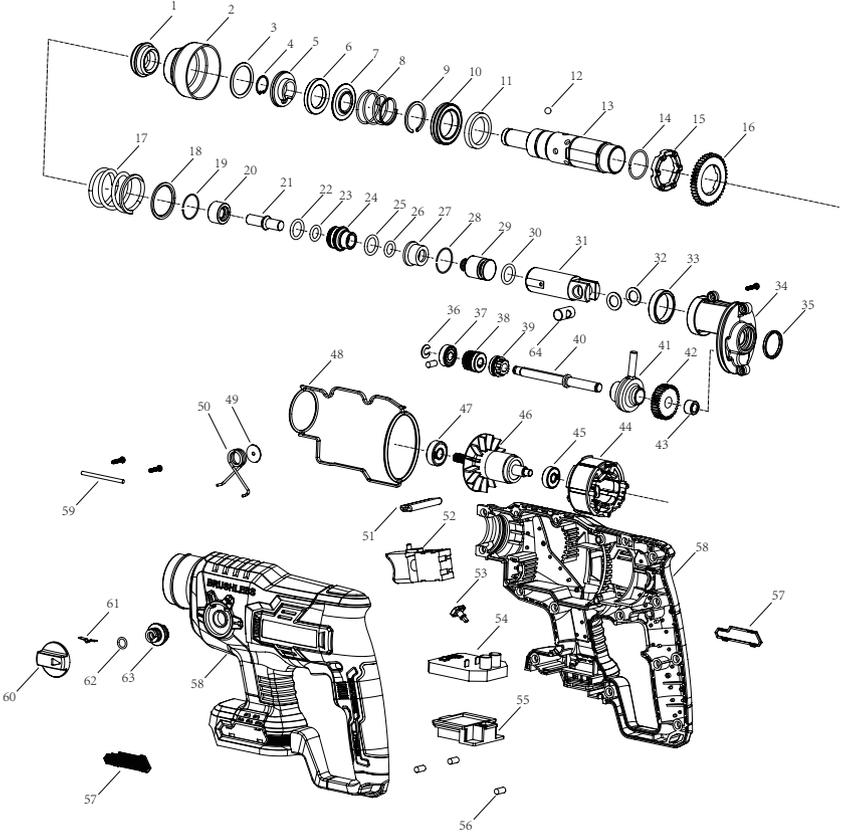
For safe and proper working, always keep the machine and ventilation slots clean. When the battery is no longer operative, please refer to an authorized after-sales service agent.

Environmental protection



Power tools that are no longer usable should not be disposed of with household waste but in an environmentally friendly way. Please recycle where facilities exist. Check with your local council authority for recycling advice.

EXPLODED VIEW



SPARE PARTS NAME

NO.	Name	NO.	Name
1	Rubber head cap	33	Ferrule
2	Sliding sleeve	34	Aluminum parts
3	Gasket	35	608 bearing 0-ring
4	circlip	36	C type circlip M6
5	Plastic flange gasket	37	607 or 627 bearings
6	Steel ball ring gasket	38	Shift tooth (long)
7	Formed gasket	39	Shift gear (short)
8	Steel ball frame spring	40	Swing axis
9	Circlip	41	Rocking bearing
10	Bearing	42	Flat gear
11	Oil seal	43	Needle Roller HK0808
12	Steel ball	44	Stator 5020
13	Transfer	45	Bearing 607
14	Circlip	46	Rotor 5020
15	Clutch chainring	47	Bearing 608
16	Clutch gear	48	Gourd leather ring
17	Large compression spring	49	Gasket
18	1.5 Chamfered gasket	50	Shift wire spring
19	Circlip	51	Forward and reverse push film
20	Thrust ring	52	Switch body
21	Impact bar	53	LED lampshade
22	15.6*1.8 O-ring	54	Controller
23	8.5*1.8 O-ring	55	Pin
24	Guide sleeve	56	Shock absorbing small cylinder
25	O-ring	57	Left and right decorative pieces
26	O-ring	58	Chassis
27	Fixed sleeve	59	Shift steel pin
28	Circlip	60	External transfer file
29	Ram	61	clicker
30	Hammer 0-ring	62	8*2.5 O-ring
31	Aluminum piston	63	Internal shift POM
32	Piston pin gasket	64	Piston pin



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