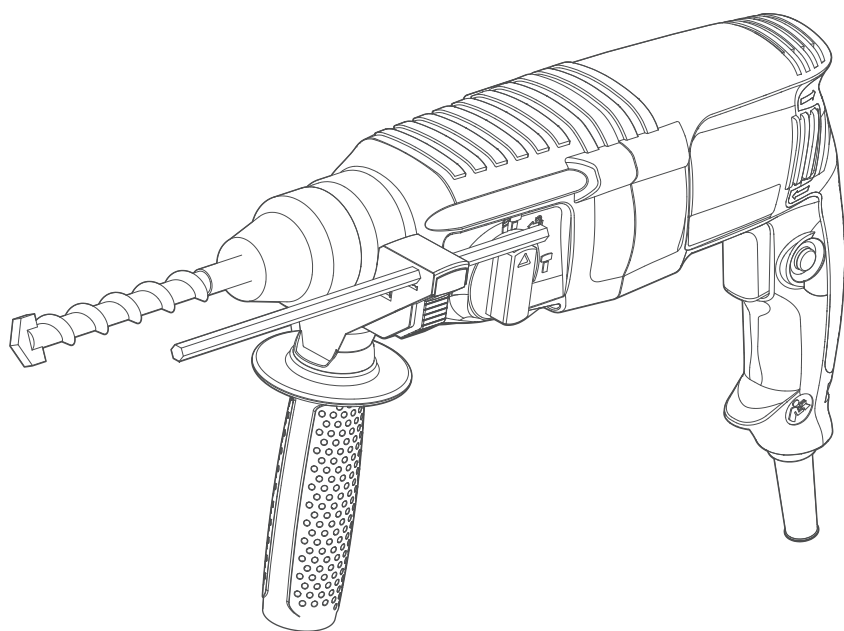


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DCE360

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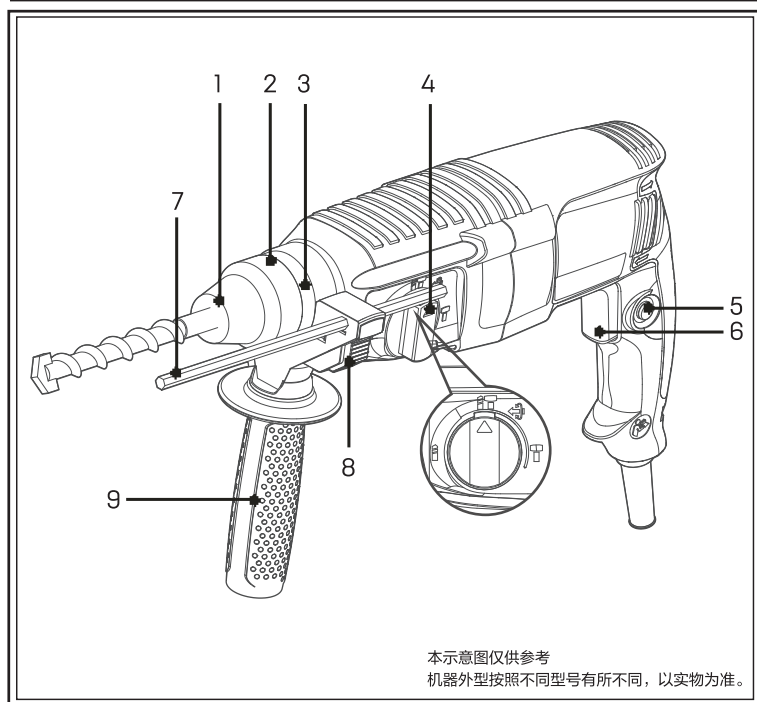
ROTARY HAMMER

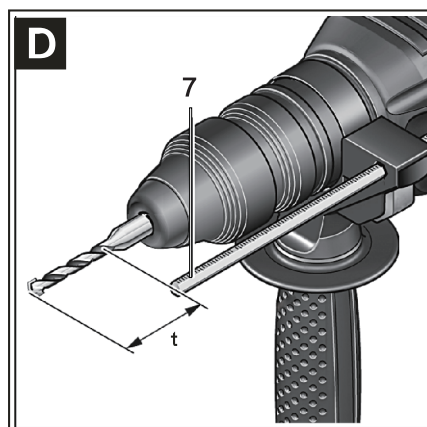
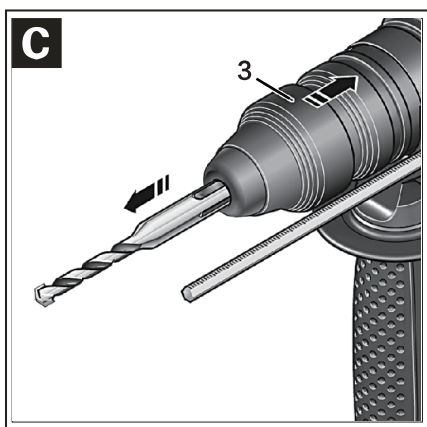
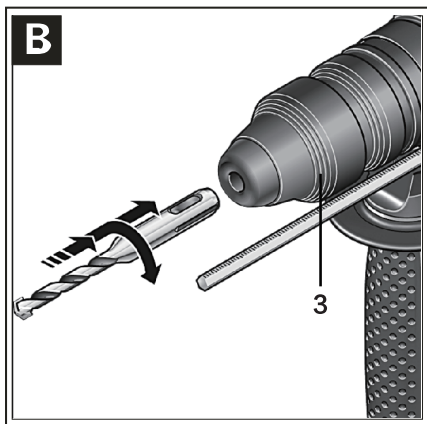
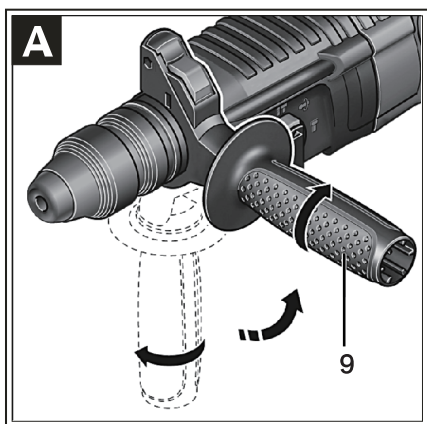


Please read this manual carefully before use
and keep it in a safe place



1 电锤示意图





SPECIFIC SAFETY RULES FOR DRILL HAMMERS



Working safely with this machine is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed.



In addition, the general safety notes in the enclosed booklet must be observed.

Before using for the first time, ask for a practical demonstration.

To prevent damage to hearing, wear hearing protection.

Wear safety glasses and sturdy shoes. For long hair, wear hair protection. Work only with close-fitting clothes.

Dust produced while working can be detrimental to health, inflammable or explosive. Suitable protection measures are required.

Examples: some dusts are considered to be carcinogenic. Use suitable dust/chip extraction and wear a dust protection mask.

Light metal dust can burn or explode. Always keep the work place clean since material mixtures are especially dangerous.

If the cable is damaged or cut through while working, do not touch the cable but immediately pull the power plug. Never use the machine with a damaged cable. Connect machines that are used in the open via a residual current device(RCD)with an actuating current of 30 mA maximum. Do not operate the machine in rain or moisture.

Always direct the cable to the rear away from the machine.

Use suitable detectors to find hidden utility lines or call the local utility company for assistance. Contact with electric lines can lead to fire or electrical shock. Damaging a gas line can result in an explosion. Penetrating a water pipe will cause property damage or an electrical shock.

Operate the machine only with the auxiliary handle 13.

Secure the work piece. A work piece held with clamping devices or in a vise is more secure than when held by hand.

Place the machine on the nut/screw only when switched off.

Be careful when screwing in long screws, danger of sliding off.

When working, always hold the machine firmly with both hands and provide for a secure stance.

Always switch the machine off and wait until it has come to a standstill before placing it down.

Never allow children to use the machine.

Overload Clutch

If the drill bit becomes jammed or caught, the drive to the drill spindle is interrupted. Because of the forces that occur as result, always hold the machine securely with both hands and take a firm stance.



Noise/Vibration Information

Measured values determined according to EN 50 144. The A-weighted noise levels of the tool are typically:

Sound pressure level: 91 dB(A);

Sound power level: 104 dB(A).

Wear ear protection!

The weighted acceleration is typically 12 m/s².

Intended Use

These machines are intended for hammer drilling in concrete, brick and stone. They are likewise suitable for drilling without impact in wood, metal, ceramic and plastic.

Machines with electronic control and right/left rotation are also suitable for screw driving and thread cutting.

Product Elements

Please open the fold-out page with illustration of the unit and leave it open while you read these operating instructions.

- 1 SDS-plus quick change drill chuck
- 2 Tool holder (SDS-plus)
- 3 Dust protection cap
- 4 Locking sleeve
- 5 Quick change drill chuck locking ring
- 6 Right/Left rotation switch
- 7 Locking button
- 8 On/Off switch with speed control function
- 9 Unlocking button
- 10 Operational mode selection switch
- 11 Button on the auxiliary handle
- 12 Depth stop
- 13 Auxiliary handle
- 14 Screw for drill chuck
- 15 Drill chuck
- 16 SDS-plus adaptor for drill chuck
- 17 Assembled drill chuck
- 18 Universal holder for screwdriver bits
- 19 Drill chuck mounting (DFR)
- 20 Front sleeve of the quick change keyless chuck (DFR)

OPERATING INSTRUCTIONS

Auxiliary Handle (see Fig. A)

Operate the machine only with the auxiliary handle 13. By rotating auxiliary handle 13 to a comfortable position, a fatigue-free and therefore safe working position can be achieved.

Loosen the auxiliary handle 13 in the counter clockwise direction and adjust the handle to the desired working position. Ensure that the clamping band of the auxiliary handle is located in the groove intended for it in the housing.

Then retighten the auxiliary handle 13 by turning in the clockwise direction.

Selecting Drill Chucks and Tools

For hammer drilling and chiseling, SDS-plus tools are required that are inserted in a SDS-plus drill chuck. For drilling in steel or wood, for screw driving and for thread cutting, tools without SDS-plus are used (for example, drills with cylindrical shafts). For these tools, a quick change keyless or a ring gear drill chuck is required.

Do not use tools without SDS-plus for hammer drilling or chiseling! Tools without SDS-plus and their chucks are damaged by hammer drilling or chiseling.

The SDS-plus quick change drill chuck can easily be replaced with the keyless drill chuck provided.

Inserting/Replacing the Tool

Take care when changing tools that the dust protection cap 3 is not damaged.

TECHNICAL DATA

SE/SRE/DFR

Percussion drill PROFESSIONAL

DCE360 / DCE361

Speed control		●
Rotation stop		—
Right/Left rotation		—
Quick change drill chuck		●
Rated input power [W]		850
Impact rate at nominal rotational speed [/min]		0-5100
Impact energy per stroke [J]		3.2
Nominal speed [bpm]		0-1150
Maximum drill diameter		
Concrete [mm]		8-22
Masonry (core drill) [mm]		26
Steel [mm]		13
Wood [mm]		30
Weight(with out accessories) approx [kg]		3.07
Protection class		II

The specifications apply for the rated voltage of [U] 220/240 V. For lower voltages and with modes for specific countries, the specifications can vary.

Please take note of the order number of your machine since the trade name of the individual machines can vary.

SDS-plus Tools

The SDS-plus tool is designed to be freely movable. This causes eccentricity when the machine is not loaded. However, the drill automatically centers itself during operation. This does not affect drilling precision.

Inserting a SDS-plus Tool(see Fig.13)

Place on the SDS-plus quick change drill chuck 1 (see Attaching the Quick Change Drill Chuck).

Clean the tool before inserting and lightly grease the insertion end.

Insert the tool with a twisting motion into the tool holder 2 until it locks.

The tool locks itself. Check the locking by pulling on the tool.

Removing SDS-plus Tools(Fig.14)

Pull the locking sleeve 4 to the rear (a), hold it in this position and remove the tool from the holder(b).

Tool without SDS-plus

Do not use tools without SDS-plus for hammer drilling or chiseling! Tools without SDS-plus and their drill are damaged by hammer drilling or chiseling.

Inserting the Tool

Place on the ring gear drill chuck 17 (accessory)(see Inserting the Drill Chuck for Working with Tools without SDS-plus).

Turn the sleeve of the ring gear drill chuck in the counter clockwise direction until the tool holder is open wide enough. Insert the tool in the middle of the tool holder and clamp with the drill chuck key uniformly in all three holes.

Tool Removal

Turn the sleeve of the ring gear drill chuck with the aid of the drill chuck key in the counter clockwise direction until the tool can be removed.

Setting the Drilling Depth(see Fig.11)

With the depth stop 12, the desired drilling depth t can be set.

Press the button 11 of the auxiliary handle and insert the depth stop into the auxiliary handle 13 so that the grooved side of the depth stop points downward.

Insert the SDS-plus tool to the stop into the tool holder 2. Otherwise, the freedom of motion of the SDS tool can lead to an incorrect setting of the drilling depth.

Pull out the depth stop so far that the distance between the drill tip and the tip of the depth stop corresponds to the desired drilling depth.

Putting into Operation

Always use the correct supply voltage!

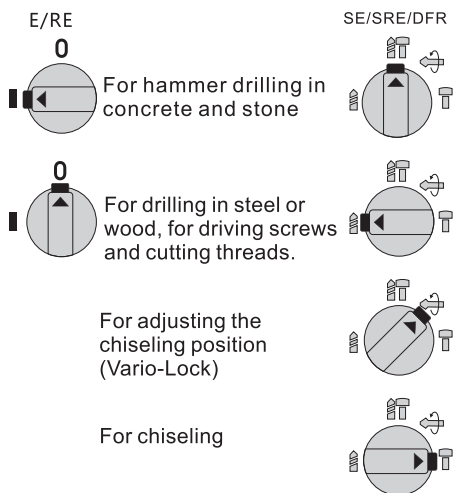
The voltage of the power source must agree with the value given on the nameplate of the machine .

Set the Operating Mode

With the operating mode selector switch 10, select the operating mode of the machine.

Change the operating mode only when the machine is switched off! Otherwise ,the machine can be damaged.

To change the operating mode, press the locking button 9 and turn the operating mode selector switch 10 to the desired position until it can heard to latch.



Setting the Direction of Rotation

With the right/left rotation switch 6, the rotational direction of the machine can be changed.

Change the direction of rotation only when the machine is switched off! Otherwise , the machine can be damaged.

Right rotation: turn the right/left rotation switch 6 on both sides to the stop in the position. ←

Left rotation: turn the right/left rotation switch 6 on both sides to the stop in the position. →

Set the direction of rotation for hammer drilling and chiseling always for right rotation.

Switching On/Off

To switch on the machine, press the on/off switch 8 to lock on, press the on/off switch 8 and lock by pressing the locking button 7.

To switch off, release the on/off switch 8 when locked, first press the on/off switch 8 and then release.

Setting the speed

By increasing or decreasing the pressure on the on/off switch 8, the speed of the switched-on machine can be continuously regulated.

Reduced speed of the machine facilitates the starting of holes (e.g. on smooth surfaces such as tiles), prevents the slipping of the drill and the splintering of the drilled hole.


Recommended Speed Ranges:


- High speed for hammer drilling in concrete or stone as well as for chiseling.
- Medium speed for drilling in steel and wood.
- Low speed for driving screws and cutting threads.

Working Instructions

Chiseling

The SDS-plus tool can be turned in the tool holder to various positions to achieve an optimum and low-fatigue working position.

Turn the operating mode selection switch 10 position  (Vario-Lock). Then turn the tool in the tool holder to the desired position.

For chiseling turn the operating mode selection switch 10 to position . This locks the tool.

Screw driving (see Fig. 1)

To use screwdriver bits, a universal holder with SDS-plus shaft 18 (accessory) is required.

Clean the adapter shaft and lightly grease the insertion end before inserting.

Insert the universal holder 18 with a twisting motion into the tool holder 2 until it locks.

The universal holder locks itself. Check the locking by pulling on the universal holder.

Insert a screwdriver bit into the universal holder.

To remove the universal holder 18, pull the locking sleeve 4 to the rear, hold it in this position and remove the universal holder from the tool holder.

MAINTENANCE AND SERVICE

Maintenance

Before any work on the machine itself, pull the power plug.

For safe and efficient working, always keep the machine and the ventilation slots clean.

Clean the tool holder each use.

Replacing the Dust Cap

Replace the dust protection cap 3 without delay if it is damaged. A damaged dust protection cap can allow dust to penetrate into the tool holder and lead to malfunctions.

Have the replacement of the dust protection cap performed by a customer service agent.

Product Warranty Card

Dear users :

Thank you for buying our products. In order to ensure your profit, users who buy our products can contact local distributor or Specified repair stations with invoice and warranty cards if the product failures due to quality problems.

Warranty Notice:

1.From _____ (Year/Month/Day) to _____
(Year/Month/Day),

If the failure happen in normal use, our company will provide free warranty, parts replacement and other services according to the failure situation.

2.This warranty card and purchase invoice are the voucher of after-sales service provided by our company to customers. The card must be detailed only after filling in the following form and affixing the official seal with the distributor.

3.In one of the following cases, free warranty service will be invalid, and maintenance fees will be required:

- (1) Exceed the expiration date;
- (2) Failure or damage caused by not following the requirements of the product manual, maintenance or improper storage;
- (3) Failure or damage caused by disassembling, repairing or modification of the product without the permission of our company ;
- (4) Machine breakdown or damage caused by force majeure;
- (5) Consumable accessories.

This card is issued with the product. One card for one machine, to ensure that you can fully enjoy the right to free warranty service provided by the company, please keep this card properly, lost will not be replaced.

Purchase Date: _____ (Year/Month/Day)

Product Certificate

Inspector:
01

Date of manufacture:

NINGBO DELI TOOLS CO., LTD.
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MADE IN CHINA



Reserved for future use

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