Contents

Symbols used in this manual

WARNING!
Denotes impending danger.
Non-observance of this warning may result in death or extremely severe injuries.

CAUTION!
Denotes a possibly dangerous situation.
Non-observance of this warning may result in slight injury or damage to property.

NOTE!
Denotes application tips and important information.

Symbols on the power tool


Before switching on the power tool, read the operating manual!


Wear goggles!


Wear ear protection!

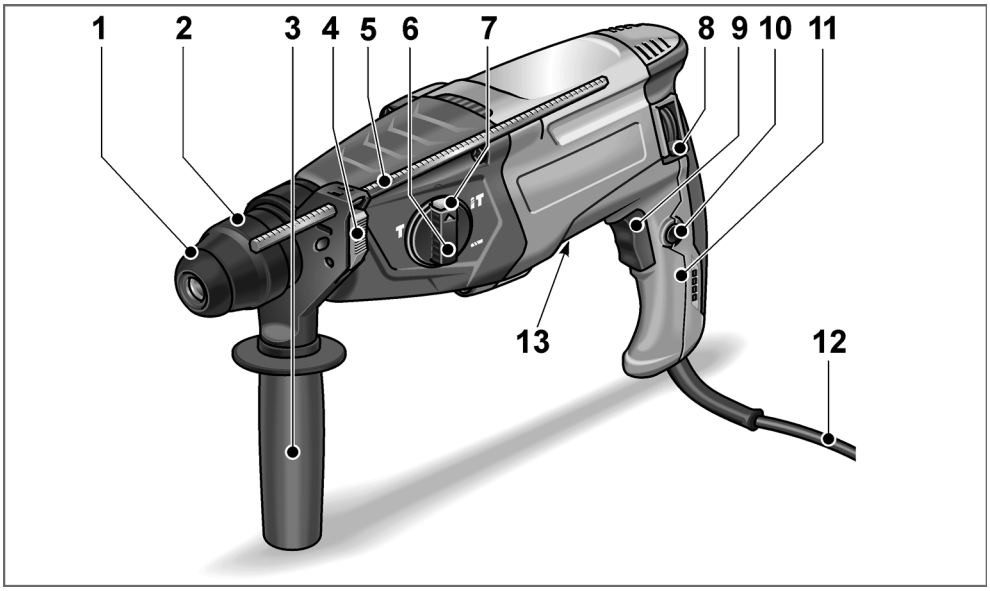

Use light-weight breathing protection!


Disposal information for the old machine (see page Disposal information)!

Technical specifications

Hammer drill and chisel hammer		**CHE 2-28 SDS-plus**
Rated power	W	800
No-load speed	min^{-1}	0–1300
No-load impact rate	min^{-1}	0–4000
Max. single impact energy (according to “EPTA-procedure 05/2009”)	J	2.7
Lubrication		Grease
Tool holder		SDS-plus
Max. drill diameter – Concrete – Masonry (HM drill bit) – Wood – Metal	 mm mm mm mm	 28 68 30 13
Weight according to “EPTA Procedure 01/2003”	kg	2.65

Overview



1 Dust cap
2 Locking sleeve
3 Auxiliary handle
4 Clamping lever for depth stop
5 Depth stop
6 Rotary knob for operating mode
7 Release button
8 Lever for selecting direction of rotation
(Clockwise/anti-clockwise)
9 Switch
For switching on and off and for accelerating up to maximum speed/ impact rate.
10 Locking button
11 Handle
12 Power cord
13 Rating plate *

* (not visible)

For your safety

⚠ *WARNING!*
Read all safety instructions and other instructions. *Failure to observe the safety instructions and other instructions may result in an electric shock, fire and/or serious injuries.* ***Save all warnings and instructions for future reference.***
Before using the power tool, please read and follow:
– *these operating instructions,*
– *the "General safety instructions" on the handling of power tools in the enclosed booklet (leaflet-no.: 315.915),*
– *the currently valid site rules and the regulations for the prevention of accidents.*

This power tool is state of the art and has been constructed in accordance with the acknowledged safety regulations. Nevertheless, when in use, the power tool may be a danger to life and limb of the user or a third party, or the power tool or other property may be damaged. The power tool may be operated only if it is
– *as intended,*
– *in perfect working order.*

Faults which impair safety must be repaired immediately.

Intended use

The hammer drill and chisel hammer CHE 2-28 SDS-plus is designed
– for commercial use in industry and trade,
– for hammer drilling in masonry and concrete for wall plug and anchor attachments and through-holes,
– for light trimming work to remove plaster and tiles,
– to be used with suitable tools recommended by the manufacturer for this power tool.

Safety instructions for hammers

- **Wear ear protection.** The effect of noise may result in loss of hearing.
- **Use auxiliary handles supplied with the power tool.** The loss of control may result in injuries.
- **Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.

Additional safety instructions

- **Use suitable detectors to detect concealed power supply cables or consult your local supply company.** Contact with electric cables may result in a fire and/or electric shock. A damaged gas pipe may cause an explosion. Cutting into a water pipe will cause damage to property or may cause an electric shock.
- **When working, hold the electric power tool firmly with both hands and ensure that you have a secure footing.** The electric power tool is controlled more securely if held with both hands.
- **Secure the workpiece.** A workpiece is held more securely in a clamping device than by hand.
- **Do not use the electric power tool if it has a damaged power cord. Do not touch the damaged power cord and pull out the mains plug if the power cord is damaged during work.** Damaged power cords increase the risk of an electric shock.
- **Only use tools with SDS-plus tool holder.** Pull on the insertion tool to check that it is locked properly.
- **Immediately have a damaged dust cap replaced.** The dust cap prevents the ingress of dust into the tool holder.

- **Dust released from materials, such as lead paints, some types of wood, minerals and metal, may be hazardous to the operator or people in the vicinity.** Inhaling or touching these dusts may result in respiratory diseases and/or allergic reactions.
  - Ensure the work place is well ventilated!
  - If possible, use external dust extraction.
  - It is recommended to wear a respirator mask belonging to filter class P2.
- Do not work on materials which release hazardous substances (e.g. asbestos).
- Identify the power tool with stickers only. Do not drill any holes into the housing.
- The mains voltage and the voltage specifications on the rating plate must correspond.

Noise and vibration

The noise and vibration values have been determined in accordance with EN 60745.

The A evaluated noise level of the power tool is typically:

- Sound pressure level: 91 dB(A);
- Sound power level: 102 dB(A);
- Uncertainty: K = 3 dB.

Total vibration value:

- when hammer drilling:
  - Emission value: a_h = 14.30 m/s^2
  - Uncertainty: K = 1.5 m/s^2
- when chiselling:
  - Emission value: a_h = 14.50 m/s^2
  - Uncertainty: K = 1.5 m/s^2

⚠ *ATTENTION!*

The indicated measurements refer to new power tools. Daily use causes the noise and vibration values to change.

ⓘ *NOTE!*

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly decrease the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

⚠ *CAUTION!*

Wear ear protection at a sound pressure above 85 dB(A).

Instructions for use

Before switching on the power tool

Unpack power tool and accessories and check that no parts are missing or damaged.

Adjusting the auxiliary handle

⚠ *WARNING!*

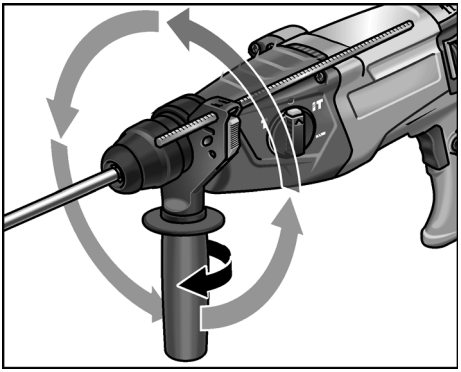
Before performing any work on the electric power tool, pull out the mains plug.

⚠ *CAUTION!*

Use electric power tool with attached auxiliary handle only.

The auxiliary handle can be swivelled into any position to ensure safe and fatigue-free working.

- Loosen the clamping by turning the clamping screw anti-clockwise.

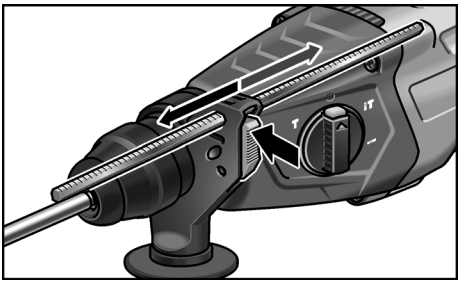


- Swivel the auxiliary handle into the required position.
- By turning the clamping screw clockwise, fix the handle in the required position.

Attaching the depth stop

⚠ *WARNING!*

Before performing any work on the electric power tool, pull out the mains plug.



- Press and hold clamping lever on the auxiliary handle in the upper area.
- Push in depth stop.
- Set depth stop to the required drilling depth.
- Release clamping lever.

Inserting tools with SDS shank

⚠ *WARNING!*

Before performing any work on the electric power tool, pull out the mains plug.

⚠ *CAUTION!*

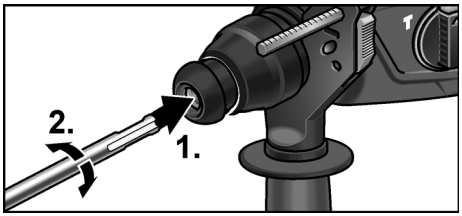
Used insertion tools may become hot. Wear protective gloves!

ℹ *NOTE!*

Tools used must have an SDS shank. If tools do not have an SDS shank (e.g. wood drill bit), a three-jaw chuck must be used.

- Check dust cap.
  - Clean dirty cap.
  - Have a defective dust cap replaced.

- Insert insertion tool (**1.**) and turn (**2.**) it until it locks.



- Check lock by pulling on the insertion tool.

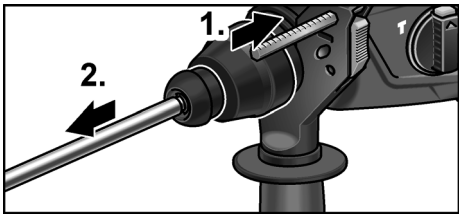
Removing the tools

WARNING!

Before performing any work on the electric power tool, pull out the mains plug.

CAUTION!

Used insertion tools may become hot. Wear protective gloves!

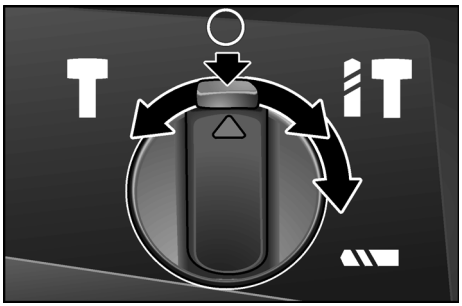


- Pull locking sleeve backwards (**1.**).
- Remove insertion tool (**2.**).

Setting operating mode

CAUTION!

Do not change operating mode until the electric power tool is at a standstill.



- Press release button.
- Setting rotary knob to the required operating mode:
  - Drilling
  - Hammer drilling
  - Setting the chisel position (see below)
  - Chiselling

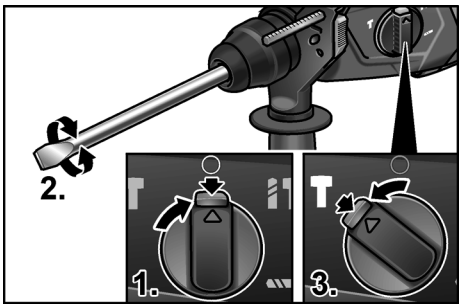
NOTE!

– The release button must visibly lock (jump out) in the (drilling), (hammer drilling) and (chiselling) positions.
– Do not switch on the electric power tool in the position (setting the chisel position).

Setting the chisel position

The chisel can be turned to a position which is ideal for the work to be performed.

- Press release button and move rotary knob for operating mode to the symbol (**1.**).

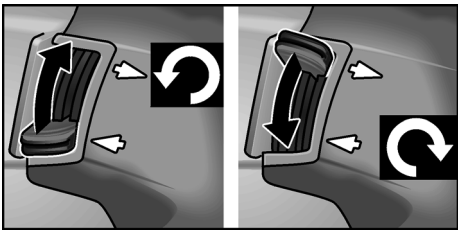


- Turn chisel until the chisel is at the required angle (**2.**).
- Press release button and move rotary knob for operating mode to the symbol . Ensure button is locked!

Setting direction of rotation

⚠ *CAUTION!*

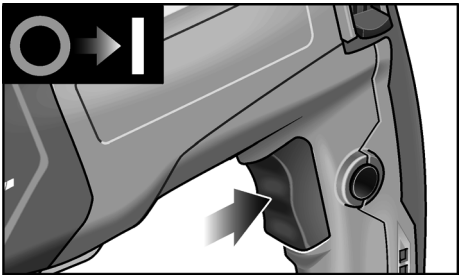
Do not change operating mode until the electric power tool is at a standstill.



- Set switch for selecting direction of rotation to the required position:
  - Top: Anti-clockwise
  - Bottom: Clockwise

Switching on the power tool

Without locking the switch:



- Press and hold down the switch.

  The electric power tool switch enables the speed or impact rate to be increased slowly to the maximum value.

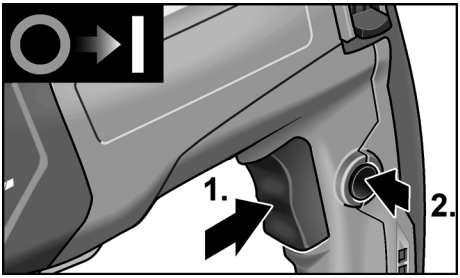
Switch off the machine:

- Release the switch.

Locking the switch:

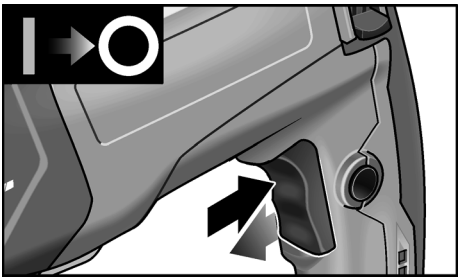
⚠ *WARNING!*

Following a power failure, the switched on electric power tool will start running again. Immediately switch off electric power tool!



- Press and hold down switch (**1.**).
- Press locking button to lock the switch (**2.**).

Switch off the machine:



- Press and release the switch.

Operating instructions

Drilling/hammer drilling

1. Move rotary knob for operating mode to the symbol (drilling) or symbol (hammer drilling). Ensure button is locked!
2. Insert drill bit.
3. Swivel the auxiliary handle into the required position.
4. Insert mains plug.
5. Grip electric power tool with both hands and assume working position.
6. Position drill bit and switch on electric power tool.
7. Gently press electric power tool forwards.
8. After drilling, switch off the power tool.
9. Pull out the mains plug.

Chiselling

1. Insert chisel.
2. Move rotary knob for operating mode to the O symbol.
3. Turn chisel into the required position.
4. Move rotary knob for operating mode to the T symbol. Ensure button is locked!
5. Swivel the auxiliary handle into the required position.
6. Insert mains plug.
7. Grip electric power tool with both hands and assume working position.
8. Switch on the power tool.
9. When chiselling, gently press electric power tool forwards to prevent it from jumping.
10. After working, switch off the power tool.
11. Pull out the mains plug.

Other information

– The use of “sharp” insertion tools increases performance and the service life of the electric power tool.
– After work, clean the electric power tool and store in the carrying case in a dry location.

Maintenance and care

⚠ *WARNING!*
Before performing any work on the electric power tool, pull out the mains plug.

Cleaning

Regularly clean the power tool and ventilation slots. Frequency of cleaning is dependent on the material and duration of use.

Regularly blow out the housing interior and motor with dry compressed air.

Carbon brushes

The electric power tool features cut-off carbon brushes.

When the cut-off carbon brushes reach their wear limit, the electric power tool switches off automatically.

NOTE!
Use only original parts supplied by the manufacturer for replacement purposes. If non-original parts are used, the guarantee obligations of the manufacturer will be deemed null and void.

When the power tool is being used, the carbon brushes can be seen sparking through the rear air inlet apertures.

If the carbon brushes are sparking excessively, switch off the electric power tool immediately. Take your electric power tool to a customer service centre authorised by the manufacturer.

Gears

NOTE!
Do not loosen the screws on the gear head during the warranty period. Non-compliance will deem the guarantee obligations of the manufacturer null and void.

The electric power tool has grease lubrication. Have the grease changed/ topped up by a customer service workshop authorised by the manufacturer.

Repairs

Repairs may be carried out by an authorised customer service centre only.

If the power cord of the electric power tool is damaged, it must be replaced with a specially prepared power cord (attachment type X). This power cord is available from FLEX customer service.

Spare parts and accessories

Other accessories, in particular insertion tools, can be found in the manufacturer’s catalogues.

Exploded drawings and spare-part lists can be found on our homepage:
www.flex-tools.com

Disposal information

⚠ *WARNING!*
Render redundant power tools unusable by removing the power cord.

EU countries only
Do not throw electric power tools into the household waste!
In accordance with the European Directive 2012/19/EC on Waste Electrical and Electronic Equipment and transposition into national law used electric power tools must be collected separately and recycled in an environmentally friendly manner.

i *NOTE!*
Please ask your dealer about disposal options!

CE-Declaration of Conformity

We declare under our sole responsibility that the product described under "Technical specifications" conforms to the following standards or normative documents:
EN 60745 in accordance with the regulations of the directives
2004/108/EC (until 19.04.2016),
2014/30/EU (from 20.04.2016),
2006/42/EC, 2011/65/EC.
Responsible for technical documents:
FLEX-Elektrowerkzeuge GmbH, R & D
Bahnhofstrasse 15, D-71711 Steinheim/Murr

Eckhard Rühle
Manager Research & Development (R & D)

Klaus Peter Weinper
Head of Quality Department (QD)

23.07.2015
FLEX-Elektrowerkzeuge GmbH
Bahnhofstrasse 15, D-71711 Steinheim/Murr

Exemption from liability

The manufacturer and his representative are not liable for any damage and lost profit due to interruption in business caused by the product or by an unusable product.
The manufacturer and his representative are not liable for any damage which was caused by improper use of the power tool or by use of the power tool with products from other manufacturers.