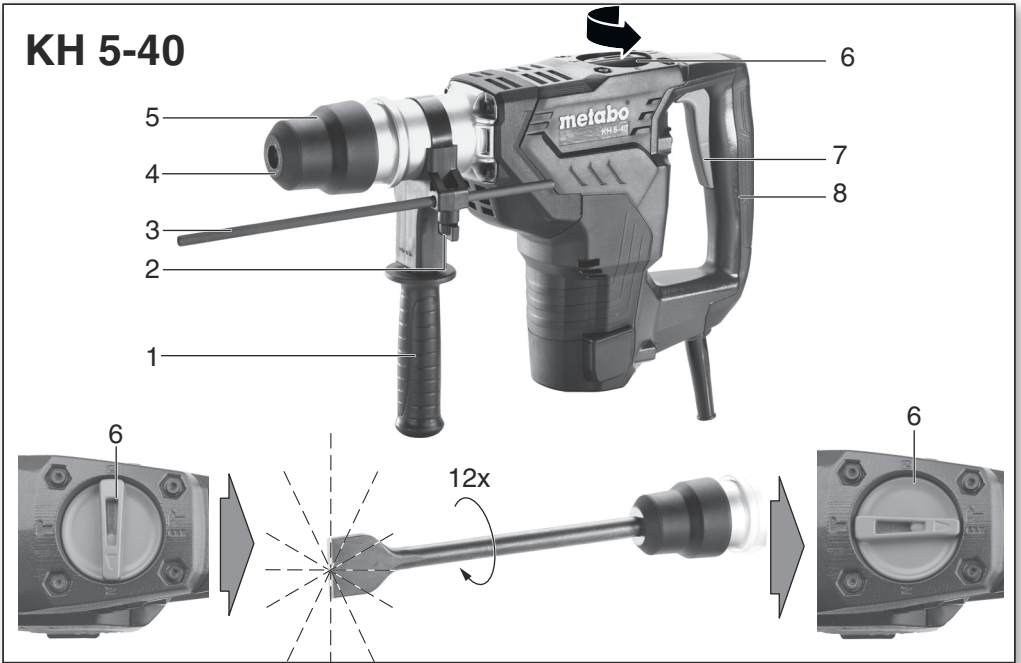
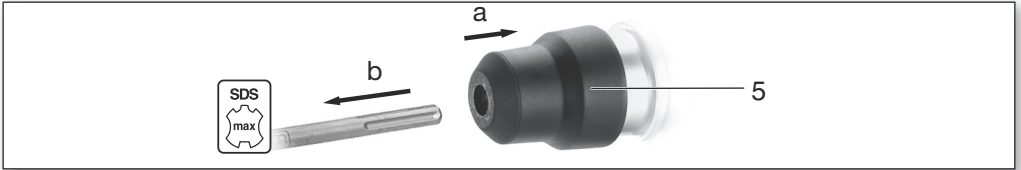
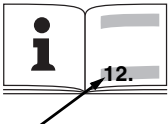


KH 5-40



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		KH 5-40 *1) Serial Number: 00763..
		SDS-max
P₁	W	1100
P₂	W	524
n₁	/min	620
D₁	mm (in)	40 (1 ⁹ / ₁₆)
D₂	mm (in)	105 (4 ¹ / ₈)
smax	/min bpm	2800
W (EPTA 05/2009)	J	7,1
C	-	12
m	kg (lbs)	7,1 (15,7)
a_{h,HD}/K_{h,HD}	m/s²	13,5 / 1,5
a_{h,Cheq}/K_{h,Cheq}	m/s²	13,7 / 1,5
L_{pA}/K_{pA}	dB (A)	95,6 / 3
L_{WA}/K_{WA}	dB (A)	106,6 / 3
L_{WA(M)}	dB (A)	-
L_{WA(G)}	dB (A)	-



*2) 2014/30/EU, 2006/42/EC, 2011/65/EU

*3) EN 62841-1:2015, EN IEC 62841-2-6:2020+A11:2020, EN IEC 63000:2018

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 Direktor Produktentstehung & Qualität (Vice President Product Engineering & Quality)
 *4) Metabowerke GmbH - Metabo-Allee 1 - 72622 Nuertingen, Germany

ppa. B.F.

Original instructions

1. Declaration of Conformity

On our own responsibility, we hereby declare that this drilling and chisel hammer, identified by type and serial number *1), meets all relevant requirements of directives *2) and standards *3). Technical documents for *4) - see Page 3.

For UK only:

UK CA We as manufacturer and authorized person to compile the technical file, see *4) on page 3, hereby declare under sole responsibility that these drilling and chisel hammer, identified by type and serial number *1) on page 3, fulfill all relevant provisions of following UK Regulations S.I. 2016/1091, S.I. 2008/1597, S.I. 2012/3032 and Designated Standards EN 62841-1:2015, EN IEC 62841-2-6:2020+A11:2020, EN IEC 63000:2018

2. Specified Use

The KH 5-40 is designed for hammer drilling and chiselling in concrete, bricks, stone and similar materials when used in combination with appropriate accessories.

The user bears sole responsibility for any damage caused by inappropriate use.

Generally accepted accident prevention regulations and the enclosed safety information must be observed.

3. General Safety Instructions



For your own protection and for the protection of your power tool, pay attention to all parts of the text that are marked with this symbol!



WARNING – Reading the operating instructions will reduce the risk of injury.

Pass on your power tool only together with these documents.

General Power Tool Safety Warnings



WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below 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 mainsoperated (corded) power tool or battery-operated (cordless) power tool.

3.1 Work area safety

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- 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.
- Keep children and bystanders away while

operating a power tool. Distractions can cause you to lose control.

3.2 Electrical safety

- 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.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 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 or moving parts. Damaged or entangled cords increase the risk of electric shock.
- 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.
- 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.

3.3 Personal safety

- 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.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- 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 energising power tools that have the switch on invites accidents.
- 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.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 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.

h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

3.4 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 remove the battery pack, if detachable, 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 and accessories. 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.

h) Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

3.5 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.

the cutting accessory or fasteners 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 could give the operator an electric shock.

4.2 Safety instructions when using long drill bits with rotary hammers

a) Always start drilling at low speed and with the bit tip in contact with the workpiece. At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.

b) Apply pressure only in direct line with the bit and do not apply excessive pressure. Bits can bend, causing breakage or loss of control, resulting in personal injury.

4.3 Further Safety instructions

Pull the plug out of the socket before making any adjustments, changing tools, maintaining or cleaning.

Always work with the additional handle correctly installed.

Always hold the machine with both hands on the intended handles, take a secure stance and concentrate on the work.

Wear personal protective equipment and always wear safety glasses. Protective equipment such as dust mask, non-skid safety shoes, protective gloves, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Ensure that the place where you wish to work is free of **power cables, gas lines or water pipes** (e.g. check using a metal detector).

Work only with a correctly fitted tool. Pull on the tool to check that it is correctly seated. (It must be possible to move the tool a few centimetres in an axial direction.)

When working above ground level, ensure that the area below you is clear.

Never touch the tool or parts near the tool directly after work because they may be extremely hot and can cause burns to the skin,

Always position the power cable so that it leads away from the back of the machine.

A damaged or cracked additional handle must be replaced. Never operate a machine with a defective additional handle.

Secure the workpiece to prevent slipping or rotation (e.g. by securing with screw clamps).

Reducing dust exposure:



WARNING - Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints,
 - Crystalline silica from bricks and cement and other masonry products, and

4. Special Safety Instructions

4.1 Safety instructions for all operations

a) Wear ear protectors. Exposure to noise can cause hearing loss.

b) Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.

c) Hold the power tool by insulated gripping surfaces, when performing an operation where

- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

This also applies to dust from other materials such as some timber types (like oak or beech dust), metals, asbestos. Other known diseases are e.g. allergic reactions, respiratory diseases. Do not let dust enter the body.

Observe the relevant guidelines and national regulations for your material, staff, application and place of application (e.g. occupational health and safety regulations, disposal).

Collect the particles generated at the source, avoid deposits in the surrounding area.

Use suitable accessories for special work. In this way, fewer particles enter the environment in an uncontrolled manner.

Use a suitable extraction unit.

Reduce dust exposure with the following measures:

- do not direct the escaping particles and the exhaust air stream at yourself or nearby persons or on dust deposits,
- use an extraction unit and/or air purifiers,
- ensure good ventilation of the workplace and keep clean using a vacuum cleaner. Sweeping or blowing stirs up dust.
- Vacuum or wash the protective clothing. Do not blow, beat or brush.


5. Overview

See page 2.

- 1 Additional handle
- 2 Wing screw (for adjusting the depth stop) *
- 3 Depth stop *
- 4 Dust protection cap
- 5 Tool lock
- 6 Knob
- 7 Trigger
- 8 Handle

* equipment-specific


6. Commissioning

 Before plugging in, check that the rated mains voltage and mains frequency, as stated on the type plate match your power supply.

 Always install an RCD with a maximum trip current of 30 mA upstream.

Use only extension cables with a minimum cross-section of 1.5 mm². Extension cables must correspond to the power consumption of the machine (cf Technical Specifications). If a cable roller is used, always roll up the cable completely.

6.1 Assembly of the additional handle

 For safety reasons, always use the additional handle (1) supplied.


Open the clamping ring by turning the additional handle (1) anticlockwise. Secure the additional handle at the required angle. Tighten the additional handle.


7. Use

7.1 Depth Stop Setting (only for KH 5-40)

Release the wing (2) screw. Set the depth stop (3) to the required drilling depth. Retighten the wing screw (2).


7.2 Positioning, removing tool

 Before inserting, clean tool shank and apply supplied special grease (accessories: Order no. 6.31800)! Use only SDS-max tools.

 The dust protection cap (4) prevents the ingress of drilling dust during operation. When inserting the tool, pay attention to ensure that the dust protection cap (4) is not damaged.

Positioning tool:


Hold the tool lock (5) in the front position when inserting the tool. Turn tool and insert until it engages. The tool is being locked.

 Pull on the tool to check that it is correctly seated. (It must be possible to move the tool a few centimetres in an axial direction.)


Remove the tool:


Pull the tool lock (5) backwards in direction indicated by arrow (a) and remove tool (b). See page 3.

7.3 Setting operating mode and chisel position


 Avoid levering with the machine when a chisel is fitted.

KH 5-40:


 Do not activate the switch button (6) until the motor has completely stopped.

 Only rotate the switch button (6) in the direction of the arrow.


Turn the switch button (6) to select the desired operating mode.


 Hammer drilling



 Chiselling

 Setting which enables the chisel to be rotated to the desired position.

Setting the position of the chisel: The chisel can be locked in different positions.

- Insert the chisel.
- Turn the switch button (6) to the intermediate position .
- Turn the chisel to the required position.

- Turn the switch button (6) to position  .
- Turn the chisel until it engages.

 When a chisel is fitted, only operate the machine in the chiselling operating mode  .

7.4 Switching On and Off

To **switch on** the machine, press the trigger switch (7). To **switch off** release the trigger switch (7).

8. Cleaning, Maintenance

The power tool should be cleaned regularly, often and thoroughly through all air vents using a vacuum cleaner or by blowing in dry air. Prior to this operation, separate the power tool from the power source and wear protective glasses and dust mask.

 A damaged dust protection cap (4) must be replaced immediately.

To replace the dust protection cap (4) slide the tool lock (5) back. Grasp the dust protection cap and pull firmly forwards and off. Fit the new dust protection cap onto the spindle at an angle and press hard to secure.


9. Accessories

Use only genuine Metabo accessories.

Use only accessories which fulfil the requirements and specifications listed in these operating instructions.

For a complete range of accessories, see www.metabo.com or the catalogue.

10. Repairs

 Repairs to electrical tools must be carried out by qualified electricians ONLY!


A defective mains cable must only be replaced with a special, original mains cable from metabo, which is available only from the Metabo service.

Contact your local Metabo representative if you have Metabo power tools requiring repairs. For addresses see www.metabo.com.

You can download a list of spare parts from www.metabo.com.

11. Environmental Protection

Observe national regulations on environmentally compatible disposal and on the recycling of disused machines, packaging and accessories.


 Only for EU countries: Never dispose of power tools in your household waste! In accordance with European Directive 2012/19/Eu on waste electrical and electronic equipment and its implementation in national legal systems, used power tools must be collected separately and handed in for environmentally compatible recycling.

12. Technical Specifications

Changes due to technological progress reserved.

P_1	= Rated input power
P_2	= Power output
n_1	= No-load speed
D_1	= Max. drilling diameter in concrete with impact masonry bits
D_2	= Max. drilling diameter in concrete with impact core cutters
s_{max}	= Maximum impact rate
W	= Single impact force
C	= Number of chisel positions
m	= Weight without mains cable

Measured values determined in conformity with EN 62841.

-  Machine in protection class II
- ~ AC Power

The technical specifications quoted are subject to tolerances (in compliance with the relevant valid standards).

Emission values

These values make it possible to assess the emissions from the power tool and to compare different power tools. Depending on the operating conditions, the condition of the power tool or the accessories, the actual load may be higher or lower. For assessment purposes, please allow for breaks and periods when the load is lower. Based on the adjusted estimates, arrange protective measures for the user e.g. organisational measures.

Vibration total value (vector sum of three directions) determined in accordance with EN 62841:

$a_{h, HD}$ = Vibration emission value (hammer drilling into concrete)

$a_{h, Cheq}$ = Vibration emission value (chiselling)

$K_{h, HD/Cheq}$ = Uncertainty (vibration)

Typical A-effective perceived sound levels:

L_{pA} = sound-pressure level

L_{WA} = acoustic power level


K_{pA}, K_{WA} = uncertainty

Values measured as per EN 62841.

$L_{WA(M)}$ = Measured acoustic power level as per 2000/14/EG

$L_{WA(G)}$ = Guaranteed acoustic power level as per 2000/14/EC

During operation the noise level can exceed 80 dB(A).

 **Wear ear protectors!**