

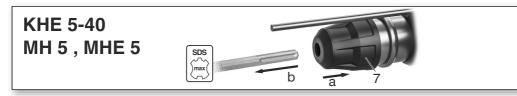
# KHE 5-40 MHE 5 MH 5

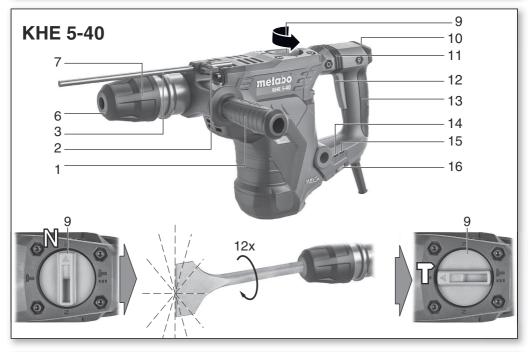


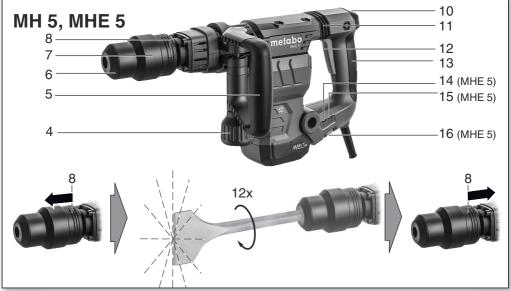


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i	,13.	<b>KHE 5-40</b> *1) Serial Number: 00391	MHE 5 *1) Serial Number: 00148	<b>MH 5</b> *1) Serial Number: 00147
		SDS-max	SDS-max	SDS-max
P <sub>1</sub>	w	1100	1100	1100
P <sub>2</sub>	w	450	730	730
Т	Nm (in-lbs)	46 (407)	-	-
n <sub>1</sub>	/min	350 - 540	-	-
D <sub>1</sub>	mm (in)	40 (1 <sup>9</sup> / <sub>16</sub> )	-	-
D <sub>2</sub>	mm (in)	105 (4 <sup>1</sup> / <sub>8</sub> )	-	-
D <sub>3</sub>	mm (in)	55 (2 <sup>5</sup> / <sub>32</sub> )	-	-
S <sub>max</sub>	/min bpm	3000	3000	3000
W (EPTA 05/2009)	J	8,5	7,1	7,1
С	-	12	12	12
m	kg (lbs)	7,1 (15.7)	5,7 (12.6)	5,6 (12.3)
a <sub>h,HD</sub> /K <sub>h,HD</sub>	m/s <sup>2</sup>	14,6 / 1,5	-	-
a <sub>h,Cheq</sub> /K <sub>h,Cheq</sub>	m/s <sup>2</sup>	11,4 / 1,5	12,7 / 1,5	12,7 / 1,5
L <sub>pA/</sub> K <sub>pA</sub>	dB (A)	97 / 3	96 / 3	96 / 3
L <sub>WA/</sub> K <sub>WA</sub>	dB (A)	105/3	103 / 1,67	103 / 2,1
L <sub>WA(M)</sub> *5)	dB (A)	-	103	103
L <sub>WA(G)</sub> *6)	dB (A)	-	105	105

C E \*2) 2014/30/EU, 2006/42/EC, 2011/65/EU, MH 5, MHE 5: 2000/14/EC \*3) EN 62841-1:2015+A11:2022,EN IEC 62841-2-6:2020+A11:2020, EN IEC 63000:2018 \*4) MH 5, MHE 5 220-240V: #0865 ISET S.r.I. Unipersonal, Sede Legale e Uffici, Via Donatori di sangue 9, 46024 Moglia (MN), Italy. MH 5 110V: #0158 DEKRA Testing and Certification GmbH, Handwerkstraße 15, 70565 Stuttgart, Germany

ppa. B.F.

2022-10-12, Bernd Fleischmann

Direktor Produktentstehung & Qualität (Vice President Product Engineering & Quality) \*7) Metabowerke GmbH - Metabo-Allee 1 - 72622 Nuertingen, Germany

# en ENGLISH 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 \*7) - see page 3.

MH 5, MHE 5: 2000/14/EC: Conformity assessment procedures in accordance with Annex VI. Named body \*4), measured sound power level LWA(M) \*5), guaranteed sound power level LWA(G) \*6), - see page 3.

### For UK only:

We as manufacturer and authorized person to compile the technical file, see \*7) 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, MH 5, MHE 5: S.I. 2001/1701 and Designated Standards EN 62841-1:2015+A11:2022, EN IEC 62841-2-6:2020+A11:2020, EN IEC 63000:2018.

MH 5, MHE 5: S.I. 2001/1701: Conformity assessment procedures in acoordance with Schedule 9. Approved Body: Intertek Testing & Certification Ltd, Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ, United Kingdom, Body-No. 0359. Measured sound power level LWA(M) \*5), Guaranteed sound power level LWA(G) \*6) - see page 3.

# 2. Specified Conditions of Use

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

The MH 5, MHE 5 is designed for 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 Information



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** – Read the operating instructions to reduce the risk of injury.

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. Always include these documents when passing on your power tool.

# 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 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
- 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 wellventilated 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 towards yourself or nearby persons or towards dust deposits,
- use an extraction unit and/or an air purifier,
- ensure good ventilation of the workplace and keep it clean using a vacuum cleaner. Sweeping or blowing stirs up dust.
- Vacuum or wash protective clothing. Do not blow, beat or brush protective gear.

# 5. Overview

See page 2.

- 1 Additional handle \*
- 2 Wing screw (for adjusting the depth stop) \*
- 3 Depth stop '
- 4 Clamping knob \*
- 5 Bar handle (additional handle) \*

- 6 Dust protection cap
- 7 Tool lock
- 8 Sleeve \*
- 9 Knob \*
- 10 Button for continuous operation (KHE...: only in chisel operating mode)
- 11 Metabo VibraTech (MVT): integrated damping system
- 12 Trigger
- 13 Handle
- 14 Operation display\*
- 15 Signal display \*
- 16 Adjustment wheel \*
- \* equipment-specific

# 6. Initial Operation

Before commissioning, check that the rated mains voltage and mains frequency 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 crosssection of 1.5 mm<sup>2</sup>. 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 bow handle or additional handle

For safety reasons, always use the bow handle (5) or additional handle (1) supplied.

Release the clamping ring by turning the clamping knob (4) anticlockwise. Adjust the bow handle (5) to the required position and angle. Tighten the clamping knob firmly.

### KHE 5-40:

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

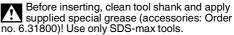
# 7. Use

### 7.1 Depth Stop Setting

(only for KHE 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



The dust protection cap (6) prevents the ingress of drilling dust during operation. When inserting the tool, pay attention to ensure that the dust protection cap (6) is not damaged.

### Positioning tool:

# en ENGLISH

Hold the tool lock (7) 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 (7) backwards in direction indicated by arrow (a) and remove tool (b). See page 2.

#### 7.3 Setting operating mode and chisel position

Avoid levering with the machine when a chisel is fitted.

## KHE 5-40:



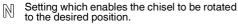
Do not activate the switch button (9) until the motor has completely stopped.

Turn the switch button (9) to select the desired operating mode.

自开 Hammer drilling



57 Chiselling



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

- Insert the chisel.
- Turn the knob (9) to the interim position  $\mathbb{N}$  .
- Turn the chisel to the required position.
- Turn the switch button (9) to position  $\square$ .
- Turn the chisel until it engages.

When a chisel is fitted, only operate the machine in the chiselling operating mode  $\mathbb{T}$  .

### MH 5. MHE 5:

The chisel can be locked in different positions.

- Insert the chisel.
- Push the sleeve (8) forwards and turn the chisel until it is in the desired position.
- Push/ release the sleeve (8) backwards.
- Turn the chisel until it engages.

#### Switching on and off 7.4 Torque setting:

Press the trigger switch (12) to switch on the machine.

To switch off release the trigger switch (12).

### Continuous operation (only in chiselling mode $\square$ ):

The machine can be switched to continuous mode (KHE...: only in chiselling mode  $\square$ ) by pressing the button (10)

To switch off, press the (10) button once again.

In continuous operation, the machine continues running if it is forced out of your hands. Therefore, always hold the machine with both hands using the handles provided, stand securely and concentrate.

#### 7.5 Setting impact force

Rotate the adjustment wheel (16) to change the impact strength (and speed). The impact strength is increased from setting 1 to 5 and the mode display (14) flashes. In setting 6, the tool delivers the maximum impact strength, in this setting the mode display (14) is constantly lit.

Scope of application	wheel
Plaster/light construction materials	1-2
Brickwork/removing tiles	3-4
Drilling/chiselling into concrete	5-6

## 7.6 Metabo VibraTech (MVT)

For reduced vibrations and less stress on the hands.

Always apply a moderate amount of pressure to the handle when pushing down the machine and do not force. Vibrations are reduced most effectively at the central position (11).

# 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 (6) must be replaced immediately.

To replace the dust protection cap (6) slide the tool lock (7) 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. Troubleshooting

### Overload:

The machine has shut down by itself. The signal indicator (15) flashes. The machine was overloaded (30%)! Let the machine cool down, only then can you continue to work. Avoid further overloading.

### Restart protection:

The machine does not start. The signal indicator (15) flashes. Restart protection is active. If the mains plug is inserted with the machine switched on or if the power supply is restored following an interruption, the machine does not start up. Switch the machine off and back on again.

### Carbon brushes worn:

The signal indicator (15) flashes:

The carbon brushes are almost completely worn (remaining operating time approx. 8 hours). If the brushes are completely worn, the machine switches off automatically. Have the brushes replaced by an authorised service centre.

# 10. Accessories

Use only genuine Metabo accessories.

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

See www.metabo.com or the catalogue for a complete range of accessories.

# 11. Repairs

Repairs to electrical tools must ONLY be carried out by curlified of carried out by gualified electricians!

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.

# 12. Environmental Protection

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

Packaging materials must be disposed of according to their labelling in accordance with municipal guidelines. Further information can be found at www.metabo.com in the "Service" section.

Y Only for EU countries: never dispose of power tools in your household waste! According to European Directive 2012/19/EU on Waste from Electric and Electronic Equipment and implementation in national law, used power tools must be collected separately and recycled in an environmentally-friendly manner.

# 13. Technical Specifications

Explanatory notes on the specifications on page 3. Changes due to technological progress reserved.

- $P_1$ =Rated input power
- P<sub>2</sub>' T =Power output
- =Torque
- =No-load speed n<sub>1</sub>
- D<sub>1</sub> = Max. drilling diameter in concrete with impact masonry bits
- $D_2$ = Max. drilling diameter in concrete with impact core cutters
- $D_3$ = Max. drilling diameter in concrete with milling cutters
  - = Maximum impact rate
- s<sub>max</sub> W = Single impact force
- С = 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 relevant valid standards).

# **Emission values**

These values make it possible to assess the emissions from the power tool and to compare different power tools. The actual load may be higher or lower depending on operating conditions, the condition of the power tool or the accessories used. Please allow for breaks and periods when the load is lower for assessment purposes. Arrange protective measures for the user, such as organisational measures based on the adjusted estimates.

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

= Vibration emission value (hammer drilling a<sub>h HD</sub> into concrete)

a<sub>h, Cheq</sub> = Vibration emission value (chiselling)  $K_{h,HD/Cheg}^{n}$  = Uncertainty (vibration)

Typical A-effective perceived sound levels:

- L<sub>pa</sub> = sound-pressure level
- L<sub>WA</sub> = Acoustic power level

 $K_{pA}$ ,  $K_{WA}$  = Uncertainty Values measured as per EN 62841.

- L<sub>WA(M)</sub> = Measured acoustic power level as per 2000/14/EG
- = Guaranteed acoustic power level as per L<sub>WA(G)</sub>
- 2000/14/EC 🔊 Lwa



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

### Wear ear protectors!