

# metabo®

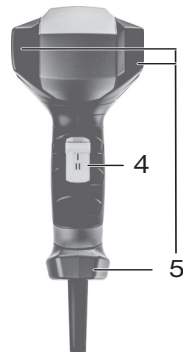
PROFESSIONAL POWER TOOL SOLUTIONS

**HG 16-500**  
**HG 20-600**  
**HGE 23-650 LCD**  
**HGS 22-630**

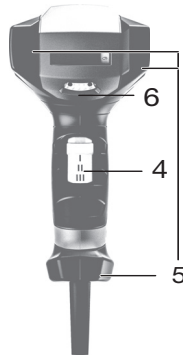


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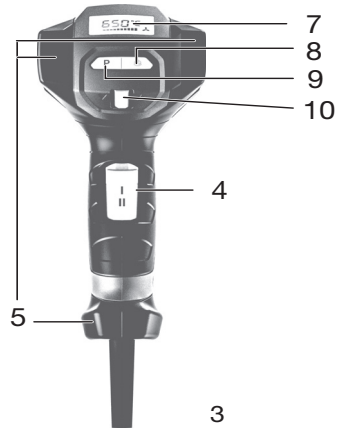
# HG 16-500



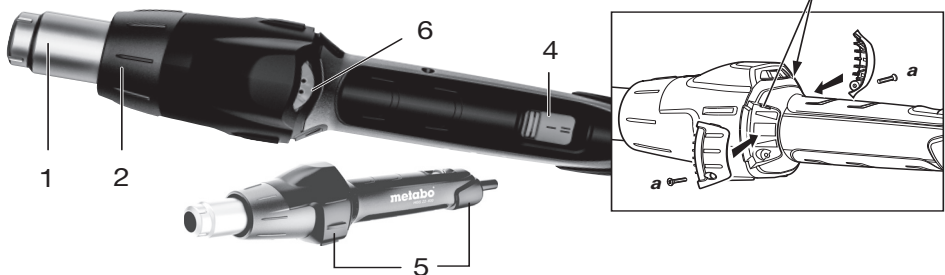
# HG 20-600



# HGE 23-650 LCD



# HGS 22-630



# Original instructions

## 1. Declaration of Conformity

HG 16-500 (Serial Number: 01067..),  
 HG 20-600 (Serial Number: 02066..),  
 HGE 23-650 LCD (Serial Number: 03065..),  
 HGS 22-630 (Serial Number: 04063..):

We hereby declare at our sole responsibility that this product conforms to the standards and normative documents mentioned:

EN 60335-1:2012+A11:+A13:2017, EN 60335-2-45:2002+A1:2008+A2:2012, EN IEC 63000:2018, 2014/35/EU, 2014/30/EU, 2011/65/EU

*ppa. B.F.*

Bernd Fleischmann, 2021-03-29

Vice President Product Engineering & Quality  
 Responsible Person for Documentation  
 Metabowerke GmbH, 72622 Nürtingen, Germany

### For UK only:

**UK** We as manufacturer and authorized person to  
**CA** compile the technical file, see above,  
 hereby declare under sole responsibility that this product, identified by type and serial number (see above), fulfill all relevant provisions of following UK Regulations 2014/30/EU, 2014/35/EU, 2011/65/EU and Designated Standards \*3) EN 60335-1, EN 60335-2-45, EN IEC 63000:2018.

## 2. Specified Conditions of Use

The hot air gun is suitable for the following tasks:  
 Removal of old paint coats, drying of freshly applied paint, thawing of frozen water lines, heating of plastics prior to forming, soldering (e.g. of copper lines), gluing and jointing with hot-melt-type adhesives, welding of plastics.

Only HG 16-500: Not intended for industrial or commercial use.

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



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



**WARNING Read all safety warnings and instructions.**  
*Failure to follow all safety warnings and instructions may result in electric shock, fire and/or serious injury.*

## Keep all safety instructions and information for future reference.

Before using the power tool, carefully read through and familiarise yourself with all the enclosed safety information and the Operating Instructions. Keep all enclosed documentation for future reference, and pass on your power tool only together with this documentation.

## 4. Special 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!

Never look inside the blow-out pipe!

Never use the hot-air blower for drying your hair!

Always wear goggles and work gloves!

Pay attention when using the hot-air fan near flammable materials. The device must not be used if explosive gases are present.

This device can be used by children from 8 years of age and, in addition, by persons with impaired physical, sensory or mental ability or lack of experience or knowledge if they are supervised or have received induction training on the use of the device and understand the associated risks. Children may not play with the device. Cleaning and user maintenance may not be performed by children unless supervised.

Risk of burns: Never touch the hot blow-out pipe.

Never use power tools when damp, or in a damp or wet environment.

Take special care when using tools near combustible materials. Never direct at the same point for long periods.

Heat can be directed to concealed combustible materials.

Never direct the hot-air blower at highly flammable materials! Fires can be caused if the hot-air blower is not used with great care.

Never leave the tool unattended when it is running.

After long periods of use at maximum temperature, the temperature should be lowered before the tool is switched off. This lengthens the service life of the heater.

Place the tool on the bases provided following use and wait until it has cooled down before placing in storage!

Store your tools in a safe place.

Unused tools should be stored in a dry, locked room inaccessible to children.

Always take care where there are toxic gases and a risk of explosion.

Toxic can be created when working on plastics, paints and similar materials. Risk of fire and combustion!

Only use the hot-air blower in well-ventilated rooms!

Never inhale the vapours created!

For your own safety, only use accessories and auxiliary devices specified in the Operating Instructions or recommended or specified by the tool manufacturer. The use tools or accessories other than those recommended in the Operating Instructions or in the catalogue can result in a risk of injury.


## 5. Overview


See page 2.


- 1 Stainless steel blow-out pipe
- 2 Detachable protective tube (for areas that are difficult to access)
- 3 Air inlet (for HGS... with fine dust filter)
- 4 Sliding switch (On-off switch/stepping switch)
- 5 Anti-slip bases (for non-tilting and anti-slip stationary work applications)
- 6 Adjusting wheel for setting the temperature\*
- 7 Display\* (for temperature and air volume)
- 8 Button for setting the air volume\*
- 9 Program selection button\*
- 10 Joystick for setting the temperature and air volume\*

\* depending on the features / model

## 6. Use

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

 The distance to the object being processed depends on the material and intended processing type. Always first carry out an inspection of air volume and temperature! The attachable nozzles (see chapter 9.) available as accessories can be used for precise hot air control to a specific point or a surface.

 Take care when changing hot nozzles! Danger of burns.

### 6.1 HG 16-500

The sliding switch (4) can be used to switch the tool on and off for selecting between 2 stages (for air volume and temperature).

**Stage 1:** 300 °C, 240 l/min

**Stage 2:** 500 °C, 450 l/min

### 6.2 HG 20-600

The sliding switch (4) can be used to switch the tool on and for selecting between 3 stages.

The air volume varies in the 3 stages (150/300/500 l/min).

At **stage 1** of the sliding switch (4) the temperature is always 80 °C (cold-air stage). Use the cold-air stage to dry paint, cool workpieces or to cool down the nozzle before changing an accessory part.

At **stage 2 and 3** of the sliding switch (4), the temperature can be set steplessly at the adjusting wheel (6).

The numbers 1 - 9 shown on the adjusting wheel are used for orientation. "1" means 80 °C. "9" means 600 °C (maximum temperature).

### 6.3 HGE 23-650 LCD

The sliding switch (4) can be used to switch the tool on and for selecting between 2 stages.

At **stage 1** of the sliding switch (4) the temperature is always 80 °C (cold-air stage). Use the cold-air stage to dry paint, cool workpieces or to cool down the nozzle before changing an accessory part.

At **stage 2** of the sliding switch (4) the temperature can be set steplessly.

#### Setting temperature:


Briefly pressing the joystick (10) to the left/right increases or lowers the set value in 10 ° steps. Longer pressing of the joystick (10) changes the value faster.

#### Note:





If the desired temperature is set, the blower (depending on the selected speed/air volume) needs a few seconds to reach the set value. The "°C" symbol flash during this period.

When the hot-air blower is switched off, the last value set is retained.

#### Setting air volume:

Pressing the (8)  button and then briefly pressing the joystick (10) to the left/right sets the air volume or fan speed.

#### Program operation:

Four programs for the most frequent types of work are set in the factory. Press the "P" button for program operation. The display shows  for program 1. Pressing the program button again, takes you to the programs ,  and . Press the button again to return to normal operation.

Program 1: Forming plastic pipes


Program 2: Welding plastic pipes

Program 3: Removing paint

Program 4: Soft soldering

(technical data see chapter 12.)

#### Changing programs and saving:

The values in the four programs can be changed and saved. To do this, first press the "P" program button until the program to be changed is displayed. Set the desired air volume and temperature. Press the "P" program button for saving until the  symbol disappears from the display (about 2 seconds). The entered values are now saved in the program.

#### Note:

- To return from program operation to the normal function, press the program button (9) until the program symbol in the display (7) has disappeared.

- The factory settings of the programs are listed in chapter 12.

### 6.4 HGS 22-630


The sliding switch (4) can be used to switch the tool on and for selecting between 2 stages.

The air volume varies in the 2 stages (stage 1: 150-300 l/min, stage 2: 300-500 l/min).

At **stage 1 and 2** of the sliding switch (4), the temperature can be set steplessly at the adjusting wheel (6).

The numbers 1 - 9 shown on the adjusting wheel are used for orientation. "1" means 80 °C. "9" means 630 °C (maximum temperature).

### 6.5 Stationary operation

 If you wish to use the hot-air blower as a stationary tool, ensure that it is placed on a safe, anti-slip and clean base.

To use the hot air gun in stationary operation, place it on the anti-slip bases (5).

## 7. Maintenance

The air inlet (3) must be free from foreign bodies. Clean the air inlet (3) if necessary.

For the HGS 22-630 remove the fine dust filter (3) for cleaning (see fig., page 2). Replace worn fine dust filters. Replacement filter set: order no. 344199400.

## 8. Troubleshooting

### Thermal protection in the event of heat accumulation (only for HGE 23-650 LCD):

A thermal switch switches off the heater in case of excessive interference in the air outlet of the blow-out opening (heat accumulation). However, the blower continues running. When the blow-out opening is free again, the heater cuts in again automatically after a short while. The thermal switch can also trip after the tool is switched off. In this case, after the tool is switched on again it takes longer than usual until the temperature at the blow-out opening is reached.

### Thermal fuse in the event of overload (for all devices):

The thermal fuse switches the tool off completely in the event of overloading. See chap. **repairs!**

## 9. Accessories

Use only genuine Metabo accessories.

If you need any accessories, check with your dealer.

For a complete range of accessories, see [www.metabo.com](http://www.metabo.com) or the catalogue.

## 10. Repairs



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

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

Contact your local Metabo representative if you have Metabo power tools requiring repairs. For addresses see [www.metabo.com](http://www.metabo.com).

You can download a list of spare parts from [www.metabo.com](http://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!

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.

## 12. Technical Specifications

### HG 16-500

Output:	1600 W
Air temperature:	Stage 1: ..... 300 °C Stage 2: ..... 500 °C
Air volume:	stage 0: ..... off Stage 1: ..... 240 l/min Stage 2: ..... 450 l/min
Thermal protection:	only thermal fuse
Weight	600 g (20.8 oz)
Sound pressure level:	< 70 dB (A)
Vibration:	< 2.5 m/s <sup>2</sup>

### HG 20-600

Output:	2000 W
Air temperature:	stage 1: ..... 80 °C Stage 2: ..... 80-600 °C Stage 3: ..... 80-600 °C
Air volume:	stage 0: ..... off Stage 1: ..... 150 l/min Stage 2: ..... 300 l/min Stage 3: ..... 500 l/min
Temperature Setting:	stepless in 9 stages per wheel
Thermal protection:	only thermal fuse
Weight	620 g (22.0 oz)
Sound pressure level:	< 70 dB (A)
Vibration:	< 2.5 m/s <sup>2</sup>

### HGE 23-650 LCD

Output:	2100 W (max 2300 W)
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Air temperature:	Stage 1: ..... 80 °C Stage 2: ..... 80-650 °C
Blower:	steplessly adjustable
Air volume:	stage 1: ..... 150-250 l/min Stage 2: ..... 150-500 l/min
Programs:	1=250°C /  approx. 350 l/min
	2=350°C /  approx. 400 l/min
	3=450°C /  approx. 500 l/min
	4=550°C /  approx. 400 l/min

Temperature display: LCD in 10 °C steps

Thermal protection: yes

Weight 700 g (24.2 oz)

Sound pressure level: < 70 dB (A)

Vibration: < 2.5 m/s<sup>2</sup>

### HGS 22-630

Output:	2100 W (max 2200 W)
Air temperature:	stage 1: ..... 80-630 °C Stage 2: ..... 80-630 °C
Air volume:	stage 0: ..... off Stage 1: ..... 150-300 l/min Stage 2: ..... 300-500 l/min

Temperature Setting: stepless in 9 stages  
per wheel

Thermal protection: only thermal fuse

Weight 650 g (23.0 oz)

Sound pressure level: < 70 dB (A)

Vibration: < 2.5 m/s<sup>2</sup>

Changes due to technological progress reserved.  
Values measured as per EN 60745.

Machine in protection class II

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