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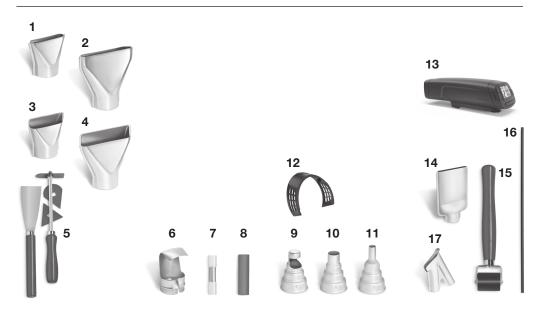
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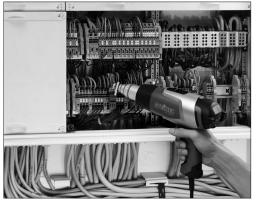
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HG 2120 E / HG 2320 E

HG 2120 E HG 2320 E





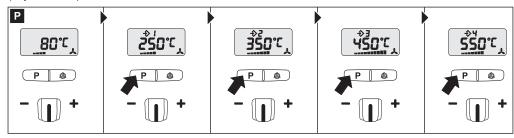




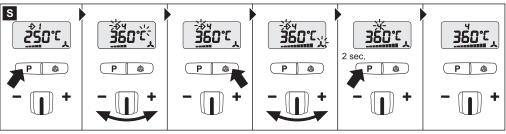








(only HG 2320 E)



#### Translation of the original GB operating instructions

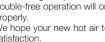
Please familiarise yourself with these operating instructions before using this product because prolonged reliable and trouble-free operation will only be ensured if it is handled

We hope your new hot air tool will give you lasting satisfaction.

#### About this document

Please read carefully and keep in a safe place.

- Under copyright. Reproduction either in whole or in part only with our consent.
- Subject to change in the interest of technical progress.





### Safety warnings

Read and observe this information before using the tool. Failure to observe the operating instructions may result in the tool becoming a source of danger.

When using electric power tools. observe the following basic safety precautions to avoid electric shock as well as the risk of injury and fire. Used carelessly, the tool can start an unintentional fire or injure persons. Check the tool for any damage (mains connection lead, housing etc.) before putting it into operation and do not use the tool if it is damaged. Do not leave the tool switched on unattended.

Children should be supervised to make sure they do not play with the device.

### First time of use

A small quantity of smoke may occur when the tool is used for the first time. This smoke is caused by binding agents released from the heater's insulating film during the first time of use.

To let the smoke escape quickly, the tool should be set down on its standing surface. The area you are working in should be well ventilated when using the tool for the first time. Any smoke coming out of the tool is not harmful!

### Take the ambient conditions into account.



Do not expose electric power tools to rain. Do not use electric power tools when they are damp or in a damp or wet environment. Exercise care when using the tool in the proximity of flammable materials. Do not direct the tool at one and the same place for a prolonged period. Do not use in the presence of an explosive atmosphere. Escaping heat may be conducted to flammable materials that are hidden from direct sight.

### Protect yourself from electric shock.



Avoid coming in contact with grounded objects, such as pipes,

### Safety warnings

radiators, cookers or refrigerators. Do not leave the tool unattended while in operation.

### Store your tools in a safe place.



After use, set the tool down on its standing surface and let it cool before putting it away.

When not in use, tools must be stored in a dry, locked room out of children's reach.

This tool may be used by children aged 8 or above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are supervised or have been given instructions on how to use the tool safely and understand the hazards involved.

Do not allow children to play with the device.

Children are not allowed to clean or carry out maintenance work on the device without supervision.

### Do not overload your tools.



Your work results and safety will be enhanced if you operate the tool within the specified output range. Do not carry the tool by the power cord. Do not unplug the tool by pulling on the power cord. Protect the power cord from heat, oil and sharp edges.

Always ensure that the blow-out tube (including in combination with mounted nozzle) is never completely covered or sealed. Damage to the heating element or motor may otherwise result.

### Beware of toxic gases and fire hazards.



Toxic gases may occur when working on plastics, paints, varnishes or similar materials.

Beware of fire and ignition hazards. For your own safety, only use accessories and attachments that are specified in the operating instructions or recommended or specified by the tool manufacturer.

Using attachments or accessories other than those recommended in the operating instructions or catalogue may result in personal injury.

### Repairs must only be carried out by a qualified electrician.



This electric power tool complies with the relevant safety regulations. Repairs should only be performed by a qualified electrician. Otherwise the user may run the risk of accidents. If this tool's main power cord is damaged, it must be replaced by the manufacturer or its customer service department or a similarly qualified person so as to avoid hazards.

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## Safety warnings

### Residual heat indicator 15 (HG 2320 E only)





The residual heat indicator serves as a visual warning to prevent injury from direct contact with the hot nozzle outlet. The residual heat indicator also works when the tool is unplugged. The indicator starts working after the tool has been in use for 90 seconds and keeps flashing until the temperature at the nozzle outlet has fallen below 60 °C at room temperature. The residual heat indicator does not show if the tool has been in operation for less than 90 seconds. Responsibility always rests with the user as care must be taken at all times when handling hot air tools.

### Keep these safety precautions with the tool.

### For your safety

#### These hot air tools are doubly protected from overheating:

- 1. A thermostat switches the heater off if too much of the air outlet nozzle is obstructed (heat build-up). However, the blower continues to run. A warning triangle on the display tells you that the heater is switched off. Once the air delivery nozzle is clear again, the heater automatically switches back on again after a few moments. The warning triangle then goes out. The thermostat may also respond after switching the hot air tool off, taking it longer than usual to reach temperature at the air delivery nozzle when it is switched on again. \*
- 2. The thermal cut-out completely shuts down the tool if it is overloaded. \*\*
- \* for HG 2320 E only
- \*\* HG 2120 E / HG 2320 E

### **Tool description - Operation**

Please note: The distance from the object you are working on depends on material and intended method of working. Always try out the airflow and temperature on a test piece first. Using the attachable accessory nozzles (see accessories page on the cover) the flow of hot air can be controlled with maximum precision.

Take care when changing hot nozzles! When using the hot air tool in the self-resting position, make sure it is standing on a stable, non-slip and clean surface.

#### HG 2120 E

The tool is switched on and off at the two-stage switch (7) on the back of the grip handle. In addition to three-stage speed/airflow control (stage 1 is a cooling stage at 80 °C), temperature can be continuously adjusted over a range of 80 °C - 630 °C in settings 2 and 3 at the thumbwheel (8). The numbers 1 - 9 on the thumbwheel serve as a guide only. Whereas "1" means 80 °C, the maximum temperature of 630 °C is attained at "9". Airflow can be adjusted to the three stages of 150 / 150-300 / 300 -500 l/min. The guard sleeve (3) detaches at a bayonet catch.

Switching ON causes brief voltage drops. If the mains power supply system is not absolutely stable, other equipment may be affected. No disturbance is likely to occur with mains impedances of less than 0.43 ohms.

#### HG 2320 E

#### 1. Operation

The tool is switched on and off at a two-stage switch (7) on the back of the grip handle. The joystick (9) is used for controlling temperature and airflow or fan speed.

#### 2. Setting temperature

Stage 1 is the cooling stage, temperature is always 80 °C. Use the cooling function for drying paint, cooling workpieces or for cooling the nozzle before changing the accessory attachment. In stage 2 temperature can be infinitely varied over a range of 80 °C - 650 °C on the control panel with LCD display. The actual temperature is measured at the nozzle outlet and indicated on the display. The joystick (9) is used as an input button with plus/minus function. The temperature setting range begins at 80 °C and ends at a maximum of 650 °C.

Briefly pressing the "+/-" joystick increases or reduces the temperature setting in 10° steps. Keeping the joystick pressed speeds up the temperature setting process. Once the temperature has been set, the tool takes a few seconds to reach temperature (depending on speed/airflow). The temperature setting selected is shown on the display for 3 seconds. The display then shows the current actual temperature. The "°C/°F" symbol continues to flash until the selected temperature is reached.

If you want to alter the setting, simply press the joystick again to increase or reduce the temperature. After switching off, the hot air tool stays in the last setting.

#### 3. Setting airflow rate

To change the airflow rate, first press the "airflow" button: the fan symbol flashes. Now use the joystick to set the airflow rate. The airflow rate setting mode automatically closes if the airflow rate setting is not changed within 5 sec. Pressing the airflow button again after setting the airflow rate immediately closes the airflow rate setting mode. The airflow rate can be varied from a minimum of 150 l/min to a maximum of 500 l/min.

#### 4. Programming mode [P]

Besides normal operating mode, the HG 2320 E also has four factory-set programs for the most frequent jobs. Four programs are factory-set for the most common types of work. Press button "P" for programming mode (11). Number 1 is displayed for program 1. Continuing to press the program button will take you to programs 2-4. Pressing the button again will return the tool to normal operation. See page 3.

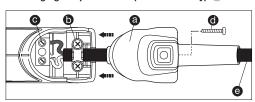
#### Preset programmes

Programme	Temp. °C	Air I/min	Application
1	250	approx. 350	Shaping plastic pipes
2	350	approx. 400	Welding plastics
3	450	approx. 500	Paint stripping
4	550	approx. 400	Soft soldering:

#### 5. Memory function [S] (HG 2320 only)

The values selected for the four programmes can be changed and memorised at any time. To do this, first press the program button "P" (11) until the display shows the program you wish to change. Set the temperature and airflow rate you require. Memory symbol 🕏 on the LCD flashes to indicate that the user programme selected has been changed. To memorise this setting in the user programme selected, press and hold down the programme selector button. The memory symbol continues to flash for approx. 2 sec. The settings entered are saved once the memory symbol stays on all the time. To return to normal operation, press the program button until the program symbol disappears from the display. To return to normal operation, press the program button until the program symbol disappears from the display. See page 3.

#### 6. Changing the power cord (HG 2320 E only) 16



If the power cord is damaged, it can easily be changed without opening the casing.

- 1. Important! Disconnect tool from power supply.
- 2. Undo screw d and pull off cover cap a.
- 3. Release cable grip **6**.
- 4. Undo mains terminals **©**.
- 5. Pull out cable 

  6.
- 6. Insert new cable and secure in reverse order (1. Firmly screw down mains terminals etc.).

#### **Tool features**

- Stainless steel outlet nozzle
- Air inlet with lattice guard keeps out foreign matter
- 3 Removable guard sleeve (for places that are hard to reach)
- Soft stand
- Soft end cap
- 6 Heavy-duty rubber-insulated power cord
- Multiple-stage switch (2-stage/3-stage)
- 8 Thumbwheel for setting temperature
- 9 Jovstick (for setting airflow rate and temperature) (HG 2320 E only)
- 10 Button for airflow rate mode (HG 2320 E only)
- 1 Programme selector button and memory button (HG 2320 E only)
- 12 LED indicator for monitoring temperature
- 3 Soft grip handle for comfortable operation
- 14 Hanging loop
- 15 Residual heat indicator (HG 2320 E only)
- Replaceable mains power cord (HG 2320 E only)

#### **Technical specifications**

	HG 232	HG 2320 E		HG 2120 E			
Voltage	230 V, 8	230 V, 50/60 Hz		220-230 V, 50/60 Hz			
Output	2300 W	2300 W max.		2200 W max.			
Airflow adjustment	continue	continuously adjustable		_			
Stage Airflow rate (I/min.) Temperature (°C)	1 150 80	2 150-500 80-650	1 150 80	2 150-300 80-630	3 300-500 80-630		
Temperature setting		infinitely variable in 10 °C steps by pushbutton		continuously in 9 steps by thumbwheel			
Programmes	2 = 350 3 = 450	°C / approx. 350 l/min °C / approx. 400 l/min °C / approx. 500 l/min °C / approx. 400 l/min	-	-			
Residual heat indicator	Yes	Yes		No			
Memory button	for char	for changing programmes set		-			
Protection class (without earth terminal)	II	II		II			
Thermostat	Yes	Yes		-			
Thermal cut-out	Yes	Yes		Yes			
Emission sound pressure level	≤ 70dB	≤ 70dB (A)		≤ 70dB (A)			
Total vibration value	≤ 2.5 m	$\leq 2.5 \text{ m/s}^2 / \text{ K} = 0.04 \text{ m/s}^2$		$\leq 2.5 \text{ m/s}^2 / \text{ K} = 0.04 \text{ m/s}^2$			
Weight	960 g		850 g				
				Subject to t	echnical modificati		

HG 2120 E settings					
Airflow rate stage 2 low airflow	rate	Airflow rate stage 3 high airflow rate			
Thumbwheel	Temperature approx.	Thumbwheel	Temperature approx.		
1	80 °C	1	80 °C		
2	110 °C	2	110 °C		
3	190 °C	3	180 °C		
4	280 °C	4	260 °C		
5	360 °C	5	340 °C		
6	440 °C	6	420 °C		
7	500 °C	7	480 °C		
8	570 °C	8	560 °C		
9	630 °C	9	630 °C		

Depending on how accurately the thumbwheel is set, the guide values shown may differ by up to  $\pm$ 0 °C from the temperature actually delivered.

### Usage

Here are some of the applications you can use STEINEL hot air tools for. This selection is by no means exhaustive – no doubt you can immediately think of other examples.

**Stripping paint:** paint is softened and can be removed with a stripping knife and paint scraper to leave a clean surface.

Applying heat-shrinkable tubings: The shrink tubing is slipped over the section you want to insulate and heated with hot air. The tubing shrinks by approx. 50% in diameter to give a sealed union. Shrinking is particularly fast and even using reflector nozzles. Sealing and stabilising cable breaks, insulating soldered joints, gathering cable runs, sheathing terminal blocks.

**Shaping PVC:** tiles, piping or ski boots can be softened and formed with hot air.

**Shaping:** ski boots and sports shoes can be shaped for a perfect fit.

**Desoldering:** electronic components are detached quickly and neatly from circuit boards with a reduction nozzle.

**Soft soldering:** First, clean metal parts you want to join. Then, using hot air, heat the point you want to solder and offer up the soldering wire. Use flux or a soldering wire with a flux core to prevent oxide forming.

**Welding and joining plastic:** all parts being welded must be of the same plastic material. Use an appropriate welding rod.

**Welding sheeting:** The sheets are overlapped and welded together. A slit nozzle is used to direct hot air under the overlap, then the two sheets are firmly pressed together with a feed roller.

Also possible: **Repairing PVC tarpaulins** by overlap welding with a slit nozzle.

Material	Applications	Characteristic signs
Rigid PVC	Pipes, fittings, tiles, structural sections, technical mouldings 300 °C welding temperature	Chars when held in flame, pungent odour; crashing sound
Rigid PE (HDPE) Polyethylene	Tubs, baskets, canisters, insulating material, piping 300 °C welding temperature	Light yellow flame, drips continue to burn, smells of a candle being extinguished; crashing sound
<b>PP</b> Polypropylene	High-temperature drainpipes, seat buckets, packagings, automotive parts 250 °C welding temperature	Bright flame with a blue core, drips continue to burn, pungent odour; crashing sound
ABS	Automotive parts, equipment enclosures, cases 350 °C welding temperature	Black, fluffy smoke; sweet odour; crashing sound

### **Accessories** (see illustrations on the inside cover)

Your retailer has a wide range of accessories for you to choose from.

CHO	036 110111.			
1 2 3 4 5 6 7	Surface nozzle 50 mm Surface nozzle 75 mm Window nozzle 50 mm Window nozzle 75 mm Paint scraper kit Reflector nozzle Crimp connectors Ø 0.5-1.5 Ø 1.5-2.5	Prod. Prod. Prod. Prod. Prod. Prod.	No. No. No. No. No.	070113 070212 070311 070410 010317 070519 006655 006648
8	Ø 0.1-0.5 – Ø 4.0-6.0 Heat-shrinkable tubing	Prod.	No.	006662
9 10 11 12 13 14	4.8-9.5 mm 1.6-4.8 mm 4.0-12.0 mm Heat-shrinkable tubing set, set of 3 Soldering reflector nozzle Reduction nozzle 14 mm Reduction nozzle 9 mm Fine dust filter HL-Scan Wide-slit nozzle Feed roller Plastic welding rod	Prod. Prod. Prod. Prod. Prod. Prod. Prod. Prod. Prod. Prod.	No. No. No. No. No. No. No. No.	074616 070717 070618 078218 014919 074715 012311
17	Rigid PVC: HDPE: PP: ABS: Welding shoe	Prod. Prod. Prod.	No. No. No.	073114 071219 073411 074210 070915

### **C €** Declaration of Conformity

(refer to page 160)

#### Disposal

Electrical and electronic equipment, accessories and packaging must be recycled in an environmentally compatible manner.



Do not dispose of electrical and electronic equipment as domestic waste.

#### EU countries only:

Under the current European Directive on Waste Electrical and Electronic Equipment and its implementation in national law, electrical and electronic equipment no longer suitable for use must be collected separately and recycled in an environmentally compatible manner.

### Manufacturer's warranty

This STEINEL product has been manufactured with utmost care, tested for proper operation and safety and then subjected to random sample inspection. STEINEL guarantees that it is in perfect condition and proper working order.

HG 2120 is guaranteed for 12 months or 750 hours of operation and HG 2320 E for 12 months or 1000 hours of operation, each commencing on the date of sale to the consumer. We will remedy defects caused by material flaws or manufacturing faults. The warranty will be met by repair or replacement of defective parts at our own discretion. This guarantee does not cover damage to wearing parts, damage or defects caused by improper treatment or maintenance nor does it cover breakage as a result of the product being dropped. Further consequential damage to other objects shall be excluded. Claims under warranty shall only be accepted if the product is sent fully assembled and well packed complete with sales receipt or invoice (date of purchase and dealer's stamp) to the appropriate Service Centre or handed in to the dealer within the first 6 months.

#### Repair service:

If defects occur outside the warranty period or are not covered by warranty, ask your nearest service station for the possibility of repair.





#### EU - Konformitätserklärung

#### EU Declaration of Conformity

#### Produktbezeichnung / Designation of Product

Produktbezeichnung / Product Heißluftgebläse HG 2120 E, HG 2320 E

Hot air gun HG 2120 E, HG 2320 E

Typbezeichnung / Type designation

3514, 3515

Ursprungszeichen / Mark of origin

STEINEL

#### Erklärung der Europäischen Richtlinienkonformität

Declaration of Conformity with European Community Directives

Das bezeichnete Produkt erfüllt die folgenden Richtlinien mit zugehörigen Normen in der aktuell gültigen Fassung: I The designated product complies with the following directives and relevant standards in the current version:

#### B.1 Maschinenrichtlinie 2006/42/EG mit Änderungen

Machinery Directive 2006/42/EC including amendments

DIN EN ISO 3744:2011-02, DIN EN 60745-1:2010-01, DIN EN ISO 11203:2010-01

DIN EN ISO 4871:2009-11, DIN EN 12096:1997-09

DIN EN 60335-1 (VDE 0700-1):2012-10; EN 60335-1:2012

DIN EN 60335-2-45 (VDE 0700-45):2012-08; EN 60335-2-45:2002 + A1 + A2:2012

DIN EN 62233 (VDE 0700-366):2008-11: EN 62233:2008

DIN EN 62233 Ber.1 (VDE 0700-366 Ber.1):2009-04; EN 62233 Ber.1:2008

#### B.2 Elektromagnetische Verträglichkeits-Richtlinie 2014/30/EU mit Änderungen Electromagnetic Compatibility Directive 2014/30/EU including amendments

DIN EN 55014-1 (VDE 0875-14-1):2012-05; EN 55014-1:2006 + A1:2009 + A2:2011

DIN EN 61000-3-2 (VDE 0838-2):2015-03; EN 61000-3-2:2014

DIN EN 61000-3-3 (VDE 0838-03):2014-03; EN 61000-3-3:2013

DIN EN 55014-2 (VDE 0875-14-2):2009-06; EN 55014-2:1997 A1:2001 + A2:2008

Anforderungen der Kategorie II / Requirements of category II

#### HG 2320 E

DIN EN 55014-1 (VDE 0875-14-1):2012-05; EN 55014-1:2006 + A1:2009 + A2:2011

DIN EN 61000-3-2 (VDE 0838-2):2015-03; EN 61000-3-2:2014

DIN EN 61000-3-11 (VDE 0838-11):2001-04; EN 61000-3-11:2000

DIN EN 55014-2 (VDE 0875-14-2):2009-06; EN 55014-2:1997 A1:2001 + A2:2008

Anforderungen der Kategorie II / Requirements of category II

HG 2120 E

#### B.3 Richtlinie zur Beschränkung gefährlicher Stoffe 2011/65/EU mit Änderungen RoHS - Directive 2011/65/EU including amendments

#### B.4 Richtlinie über Elektro- und Elektronik-Altgeräte 2012/19/EU mit Änderungen WEEE - Directive 2012/19/EU including amendments

#### Dauer der Aufbewahrung und Fundstelle der Dokumente:

#### Retention of documents and Archive:

Die Dokumente werden noch zehn Jahre nach dem letzten Inverkehrbringen verfügbar gehalten: STEINEL GmbH, Abteilung: Zulassungen. The documents are held available for ten years after the last marketing STEINEL GmbH, approval department.

#### C.1 Bevollmächtigter für die technische Dokumentation

Authorized person for the technical documentation

Klaus Wenners, Steinel GmbH, Dieselstrasse 80-84

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Steinel GmbH/ Ingo H. Steinel

(Geschäftsleitung / Chief Executive Officer)