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Subject 1

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Änderu

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# Information BHG 360 LI-IDT





## GB Translation of the

## original 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 properly.

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

## 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 develop 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

### About this document

Please read carefully and keep in a safe place.

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- Subject to change in the interest of technical progress.

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. 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, 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.

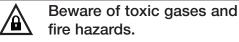
This tool may be used by children aged 8 or above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are supervised or have been given instructions on how to use the tool safely and understand the hazards involved.

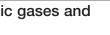
Do not allow children to play with the device.

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.





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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 gualified 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.



## Battery charger

- Keep the charger out of rain and do not expose it to moisture. The risk of electric shock will be increased if water is allowed to penetrate the charger.
- Do not charge rechargeable batteries of other brands. The charger is only suitable for charging the STEINEL li-ion 10 IMR 18/65-2 rechargeable battery within the stated voltage range. They could otherwise catch fire or explode.
- Keep the charger clean. Soiling may present the risk of an electric shock.
- Damaged chargers, cords and plug will increase the risk of electric shock. Always check the charger, power cord and plug before use. Do not use the charqer if you notice any damage. Do not open the charger yourself and only have it repaired by a qualified electrician who must only use genuine replacement parts.
- Do not operate the charger on highly combustible surfaces (e.g. paper, textiles etc.) or in combustible environments. There is a risk of fire from the heat produced by the charger while it is charging.

## **Rechargeable battery**

Protect the rechargeable battery and the tool from heat, moisture, water, e.g. also from permanent sunlight and fire. It could explode.

- The rechargeable battery must only be removed in the way described in these instructions.
- Do not open the tool or the rechargeable battery. This could cause a short circuit. Please contact your retailer if you encounter any problems.
- Do not touch any electrolyte fluid that has escaped. Do not get electrolyte fluid in your eyes. Immediately move tool away from naked flames or sources of heat. Immediately remove contaminated clothing.
- If electrolyte does escape from the battery, the following action is necessary:

Contact with eyes: Immediately rinse eyes with copious quantities of clean water, such as tap water, but do not rub. Seek medical attention. Failure to take the appropriate action can result in loss of sight. Contact with skin: Immediately wash the areas affected with copious quantities of clean water, such as tap water, or skin irritation may occur. If the chemical penetrates clothing, take off clothing immediately and wash the skin with water. If irritation persists after washing. seek medical attention. Inhalation: If the rechargeable battery is damaged or used improperly, vapours or electrolyte fluid may escape. Provide fresh air and seek medical attention if you feel unwell



or discomfort occurs. The vapours may cause respiratory irritation.

- The lithium-ion rechargeable battery can be recharged at any time without shortening its lifespan. Interrupting the charge cycle will not damage the rechargeable battery.
- When taking out of use for a long time, put the tool away with batterv charged. This will prolong the life of the lithium-ion rechargeable battery.
- When not in use, keep the rechargeable battery away from paper clips, coins, keys, nails, screws or other small metal objects that could short-circuit the contacts. Short-circuiting the rechargeable battery contacts can cause burns or fire.
- Do not short-circuit the rechargeable battery. It could explode.
- Make sure the tool is switched off before fitting the rechargeable battery. Inserting a rechargeable battery into a power tool that is switched on can lead to accidents.
- Only charge rechargeable batteries in chargers recommended by the manufacturer. A charger suitable for specific rechargeable batteries presents a risk of fire if it is used for charging other rechargeable batteries. Only use rechargeable batteries intended for use in power tools. The use of other

rechargeable batteries can result in injuries and the risk of fire.

Protect the rechargeable battery from moisture and water. Charge the rechargeable battery at a temperature ranging from 0 °C to 45 °C. Do not, for example, leave the rechargeable battery inside a car during summer. From time to time, clean the rechargeable battery's ventilation slots with a soft, clean and dry paintbrush.

## Transport

The rechargeable battery conforms to UN manual ST/SG/AC. 10/11/Rev.3 Part III, sub-section 38.3. It is equipped with an effective means to prevent internal pressure build-up and short circuit as well as a means to preclude violent rupture and dangerous reverse current flow. The lithiumequivalent quantity contained in the rechargeable battery is below the relevant limit values. Therefore. the rechargeable battery is not subject to national or international dangerous goods regulations either as an individual component or fitted in a device. However, these regulations may become relevant if transporting several rechargeable batteries. In this case, it may be necessary to observe specific conditions (e.g. in relation to packaging).

## Safety warnings

When not in use and for transportation remove the battery from the device. For storage place the battery in the slot provided.

Keep these safety warnings in a safe place together with the tool.

#### Proper use

The STEINEL BHG 360 li-ion power tool is intended for shaping and welding plastic as well as for heating shrink tubing. It can also be used for soldering and tin-plating as well as ungluing bonded joints.

#### The LS - 36 V charger is only suitable for charging the STEINEL li-ion 10 IMR 18/65-2 rechargeable battery (type 0938)

Oharging station.\* LS - 36 V (type 0939)

Red LED charging indicator

Green LED charging indicator

14 Button for state-of-charge indicator

15 Temperature monitoring indicator

10 Charging slot

(type 0938)

#### For your safety

The thermal cut-out shuts the tool down if it is overloaded

#### Tool features

- Stainless steel outlet nozzle
- 2 Air inlet with lattice guard keeps out foreign matter
- 3 Ergonomic soft grip handle
- 4 Three-stage switch with OFF/COLD/HOT settings
- 5 LED light for illuminating the work area
- 6 Hanging ring
- Reduction nozzle, 7 mm
- 8 Rechargeable battery release button
- 16 Rechargeable battery state-of-charge indicator \* Some of the accessories illustrated or described are not included as standard.

## Using the LS - 36 V charge station

Observe mains voltage: The voltage of the power source must match the specifications shown on the type plate of your hot air tool. Tools showing 230 V can also be operated on 220 V.

The charge cycle begins as soon as the charger is plugged in and the rechargeable battery is inserted 13 into the charging slot 🕕

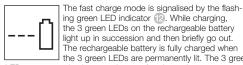
#### The intelligent charging process automatically identifies the charge state of the rechargeable battery and charges it with the charge current optimised for battery temperature and voltage. This protects the rechargeable battery and always keeps it fully charged when kept in the charger

36V rechargeable battery: STEINEL li-ion 10 IMR 18/65-2

#### What the indicators mean

Charge cycle monitoring is signalised by LED indicators (1) or (2):

#### Fast charge mode



ing green LED indicator 12. While charging, the 3 green LEDs on the rechargeable battery light up in succession and then briefly go out. The rechargeable battery is fully charged when the 3 green LEDs are permanently lit. The 3 green

LEDs go out again about 5 minutes after the rechargeable battery has been fully charged.

The fast charge mode is only possible when the rechargeable battery is at a temperature of between 0 °C and 45 °C.

#### Battery charged



Green LED indicator (2) lights up permanently to signalise that the rechargeable battery is fully charged. An acoustic signal lasting approx. 2 seconds is also given to signalise that the rechargeable battery is fully charged. The rechargeable battery can now be removed

When the rechargeable battery is not inserted, the green LED indicator (12) lights up permanently to signalise that the charger is plugged into the power supply and ready for use.

#### Technical specifications

Nominal voltage:	36 V, li-ion rechargeable battery			
Output:	300 W			
Temperatures:	400 °C without nozzle / 500 °C with 7 mm reduction nozzle (included)			
Max. airflow rate:	100 l / min. max.			
Running time:	15 min.			
Charger:	LS - 36 V			
Battery charging voltage:	[V=] 36			
Charging current:	[A] 4.0			
Permissible charging temperature range:	[°C]0 - 45			
Charging time for rechargeable battery capacitance, approx.:	2.6 Ah	30 min. (75%)	60 min. (100%)	
Weight according to EPTA procedure :	01 / 2003	[kg] 1.0		
Protection class:	II			

Please note the reference number shown on type plate of your charger. The trade names of some chargers may vary.

#### Rechargeable-battery temperature below 0 °C and over 45 °C



The red LED indicator (1) lights up permanently to signalise that the rechargeable battery is outside the fast-charging temperature range of 0 °C - 45 °C. As soon as the permissible temperature range is reached, the charger automatically switches over to fast charge mode. If the re-

chargeable battery is outside the permissible charging temperature range, the red LED on the rechargeable battery lights up when inserted into the charger.

#### Charging not possible



Any other fault affecting the charge cycle is indicated by the flashing red LED indicator (1) The charge cycle cannot be started and the rechargeable battery cannot be charged.

This may be because:

- the battery contacts are soiled.
- Action: Clean the contacts (e.g. by fitting and removing the rechargeable battery several times) or, if necessary, replace the rechargeable battery.
- The rechargeable battery is faulty because there is a break in the wiring inside the rechargeable battery (single cells). Action: Replace the rechargeable battery.

#### LED indicators (1) and (2) not lit

LED indicators (1) and (12) do not light up after plugging into the power socket. This may be because:

- The charger is not plugged in (properly). Action: Push the plug into the power socket (all the way). - Power socket, cord or charger are faulty.
- Action: Check the mains voltage and have the charger inspected by a customer service centre authorised for STEINEL power tools.

#### Note

- The charger may heat up when used continuously or for several charge cycles in uninterrupted succession. This is no cause for concern and does not indicate a technical fault.
- A significantly shorter operating time after charging indicates that the rechargeable batteries are worn out and must be replaced.

#### Rechargeable battery cooling (Active Air Cooling)

The fan controller integrated in the charger monitors the temperature of the rechargeable battery inserted in it. If battery temperature is above 30 °C, it is cooled by a fan to optimum charging temperature. The fan makes a ventilating noise when switched on

When the fan is not running, the rechargeable battery is either inside the optimum temperature range or the fan is faulty. In this case, the rechargeable battery will take longer to charge.

#### Charging the battery

Only use the charging station shown under (9). This is the only charging station designed for the li-ion rechargeable battery used in your hot air tool.

Note: The rechargeable battery is supplied partially charged. To ensure full power output, fully charge the rechargeable battery in the charger prior to first-time use.

The lithium-ion rechargeable battery can be recharged at any time without shortening its lifespan. Interrupting the charge cycle will not damage the rechargeable battery.

The li-ion rechargeable battery is protected from exhaustive discharge by "Electronic Cell Protection (ECP)". When the battery is run down, the hot air tool is shut down by protective circuitry:

Note: After the hot air tool automatically shuts down, do not press the ON/OFF switch any more. This may damage the rechargeable battery.

#### Using the BHG 360 Li-Ion hot air tool

#### Inserting rechargeable battery

From the front, slide the charged battery (13) into the base of the hot air tool. Push the rechargeable battery all the way into the

#### Removing rechargeable battery

The rechargeable battery 13 has two locking stages that are designed to prevent the rechargeable battery from falling out after accidentally pressing the rechargeable-battery release button 8. While the rechargeable battery is inserted in the hot air tool, it is held in position by a spring.

#### To remove the rechargeable battery 13

Push the rechargeable battery towards the base of the hot air tool while pressing the release button.

#### Battery charge indicator

The three green LEDs of the rechargeable-battery charge indicator 16 show the charging condition of the rechargeable battery 13. For safety reasons, the charging condition can only be requested when the electric power tool is idle.

base so that the STEINEL logo is no longer visible and the rechargeable battery is securely locked in place.



Pull the rechargeable battery from the hot air tool so that the STEINEL logo becomes visible.

Press button 14 to display the charging condition (also possible with the rechargeable battery removed). The charge indicator goes out automatically after approx. 5 seconds.

LED	Capacity
3 x green permanently lit	≥ 2/3
2 x green permanently lit	≥ 1/3
1 x green permanently lit	< 1/3
1 x green flashing	reserve power

If none of the LEDs light up after pressing button 14, the rechargeable battery is faulty and must be replaced.

While charging, the three green LEDs on the rechargeable battery light up in succession and briefly go out. The rechargeable battery is fully charged when the three green LEDs are permanently lit. The three green LEDs go out again about 5 minutes after the rechargeable battery has been fully charged.

#### Temperature monitoring indicator

The red LED temperature monitoring indicator 15 signalises that the rechargeable battery or the electronics of the hot air tool (with rechargeable battery fitted) are not within the optimum temperature range. In this case, the hot air tool will not work or fail to work at full performance.

Rechargeable battery temperature monitor:

The red LED (1) permanently lights up after inserting the rechargeable battery into the charger: The rechargeable battery is outside the charging temperature range of 0 °C to 45 °C and cannot be charged.

#### Operation

The tool is switched ON and OFF at the two-stage switch on the front of the grip handle. Please keep the three-stage switch pressed to activate heat setting 2. As soon as you stop keeping this setting pressed, the switch changes directly to setting **1**. 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

#### Setting the temperature

Setting 1 is the cold-air stage, delivering a temperature of approx. 40 °C. Use the cold-air function for drying paint, cooling workpieces or to cool the nozzle before changing an accessory attachment.

The rechargeable battery features an NTC temperature monitor that only allows it to be recharged within a temperature range of between 0 °C and 45 °C. This gives the rechargeable battery a lona life.

■ The red LED 11 flashes on pressing button 12 or ON/OFF switch (3) (with rechargeable battery inserted): The rechargeable battery is outside the operating temperature range of -10 °C to +60 °C. At a temperature of over 70 °C, the rechargeable battery switches off until it returns to the optimum temperature range.

nozzles (see accessories) the flow of hot air can be controlled with maximum precision. A small quantity of smoke may occur the first time the tool is used. Switch the tool OFF by selecting the 4 "0" switch setting. 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.

Setting 2 without nozzle delivers a temperature of 400 °C. A temperature of 500 °C is reached by fitting the 7 mm reduction nozzle.

#### Hanging hook



The integrated ring can be used for hanging the tool. Attention: max. pulling force = 150 N

#### LED light

The LED light is lit when the tool is switched on. In addition to illuminating the area you are working on, it also serves as a "tool ON" indicator light.

#### Uses

The hot air tool is ideal for working on smaller-type components and shrink tubing. In particular, it has come to be appreciated by

#### Shrink-fitting

Shrink-fitting connectors for cables and wires. Fitting heat-shrinkable products.



Shaping Work on plastic parts, e.g. in model-making.

## (J) Accessories

Your retailer keeps a stock of these accessory nozzles.

- A Reduction nozzle with reflector guard Prod. No. 077358
- B Reflector nozzle 40 mm Prod. No. 077655

### Disposal

friendly manner.

#### Do not throw devices, rechargeable batteries/batteries EU countries only:

into household waste, fire or water at the end of their In accordance with Directive 2006/66/EC, defective or spent useful life. Rechargeable batteries/batteries should be rechargeable batteries/batteries must be recycled. Waste collected, recycled or disposed of in an environmentally rechargeable batteries/batteries can be returned to the point of purchase or to a collection facility for hazardous substances.

## **CE** Declaration of Conformity

(see page 27)

### Functional warranty

This STEINEL product has been manufactured with utmost care, being dropped. Further consequential damage to other objects is tested for proper operation and safety and then subjected to ran-excluded. Claims under the guarantee shall only be accepted if dom sample inspection. STEINEL guarantees that it is in perfect the product is sent fully assembled and well packed complete condition and proper working order. The product is guaranteed with sales slip or invoice (date of purchase and dealer's stamp) to for 12 months or 500 hours of operation commencing on the the appropriate Service Centre or handed in to the dealer within date of sale to the consumer. We will remedy defects caused the first 6 months. Repair service: Our by material flaws or manufacturing faults. The guarantee will customer service department will repair be met by repair or replacement of defective parts at our own any faults not covered by the warranty or discretion. This guarantee does not cover damage to wearing occurring after the warranty has expired. parts, damage or defects caused by improper treatment or main-Please send the product well packed to tenance nor does it cover breakage as a result of the product the Service Centre.



Soldering / de-solder

electronics engineers, car mechanics and electrical fitters. Here

are just some of its many uses:

Soldering SMD components. Repairs and corrections to electronic SMD assemblies.



### Peeling off self-adhesive tapes

Removing stickers and films from painted and smooth surfaces.

Prod. No. 077556

- Prod. No. 077457
- Prod. no. 002886
- D Precision reflector nozzle
- C Reflector nozzle 10 mm

  - E Reduction nozzle, 7 mm

