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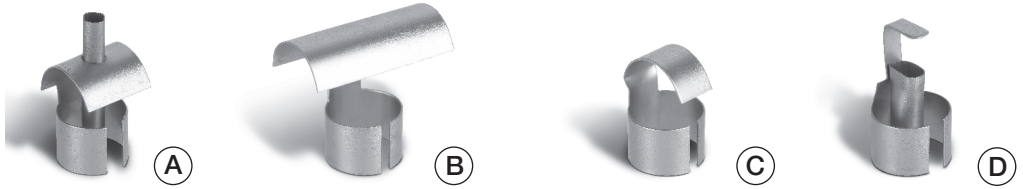
BHG 360 Li-ION

Elnr. 88 051 11

STEINEL®
German Quality

BHG 360 Li-Ion / LS - 36 V

Zubehör / Accessories (J)



Thank you

for choosing a STEINEL hot air tool. This tool can be used for completing a wide range of jobs safely and reliably, such as soldering, de-soldering, shrinking etc. All STEINEL tools are manufactured to the highest standards and undergo a strict process of quality control.

Used properly (please refer to the following safety precautions), the tool will give you prolonged service and lasting satisfaction.

Tool features

1. Stainless steel delivery nozzle
2. Air inlet with lattice guard keeps out smaller particles of debris
3. Ergonomic soft-grip handle
4. OFF / COLD / HOT selector switch
5. LED light for illuminating area worked on
6. Hanging ring
7. Temperature indicator. Lights up green as soon as the outlet nozzle delivers a temperature of < 50 °C.
8. Reduction nozzle 7 mm
9. Button for releasing rechargeable battery
10. Charging station.* LS - 36 V (type 0939)
11. Charging slot
12. Red LED charge indicator
13. Green LED charge indicator
14. 36V rechargeable battery: STEINEL Li-Ion 10 IMR 18/65-2 (Type 0938)
15. Button for activating charge indicator
16. Temperature monitoring indicator
17. Battery charge status indicator

* Some of the accessories illustrated or described are not included as standard.

Safety warnings

Please read all of the safety precautions and instructions. Failure to observe the safety precautions and instructions may result in electric shock, fire and/or serious injuries. KEEP THESE INSTRUCTIONS IN A SAFE PLACE TOGETHER WITH THE TOOL.

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 cause personal injury.

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.

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

Take 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 combustible materials. Do not direct hot air onto the same spot for any prolonged period. Do not use in the presence of an explosive atmosphere.

Heat may be conducted to combustible materials that are out of sight.

Protect yourself from electric shock.

Avoid touching earthed objects, such as pipes, radiators, cookers or refrigerators. Do not leave the tool unattended while in operation.

Store your tools in a safe place.

Place tool on stand after use and allow to cool before putting it away.

When not in use, tools should be stored in a dry, locked room out of children's reach. This tool is not intended for use by persons (adults and children) with physical, sensory or mental impairments or lacking experience and/or knowledge of use unless they are supervised by a person responsible for their safety or have received instructions from that person on how to use the tool.

Do not overload your tools.

Your work results and safety will be enhanced if you operate the tool inside the specified output range. After using the tool for a prolonged period at maximum temperature, you should reduce the temperature before switching the tool off. This will prolong the life of the heating element. Do not carry the charging station by the power cord and do not use it to pull the plug from the power socket. Protect the power cord from heat, oil and sharp edges.

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 must 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.

Safety warnings

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 charger 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, e.g. 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 battery 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 lithium-equivalent 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).

Keep these safety precautions 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).

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.

For your safety

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

Using the LS - 36 V charge station

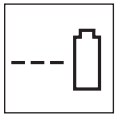
Observe mains voltage: The voltage of the power source must match the specifications shown on the type plate of your hot air tool. Tools showing 230 V can also be operated on 220 V.

The charge cycle begins as soon as the charger is plugged in and the rechargeable battery is inserted (14) into the charging slot (11). 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.

What the indicators mean

Charge cycle monitoring is signalised by LED indicators (12) or (13):

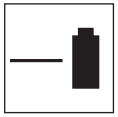
Fast charge mode



The fast charge mode is signalised by flashing green LED indicator (13). While charging, the 3 green LED's on the rechargeable battery light up in succession and then briefly go out. The rechargeable battery is fully charged when the 3 green LED's are permanently lit. The 3 green LED's go out again about 5 minutes after the rechargeable battery has been fully charged.

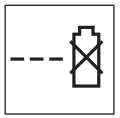
The fast charge mode is only possible when the rechargeable battery is at a temperature of between 0 °C and 45 °C.

Battery charged



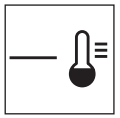
Green LED indicator (13) lights up permanently to signalise that the rechargeable battery is fully charged. An acoustic signal lasting approx. 2 seconds is also given to signalise that the rechargeable battery is fully charged.
The rechargeable battery can now be removed for immediate use.
When the rechargeable battery is not inserted, the green LED indicator (13) lights up permanently to signalise that the charger is plugged into the power supply and ready for use.

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



The red LED indicator 12 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 rechargeable 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 flashing red LED indicator 12. 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 12 and 13 not lit

LED indicators 12 and 13 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 10. 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 shut 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

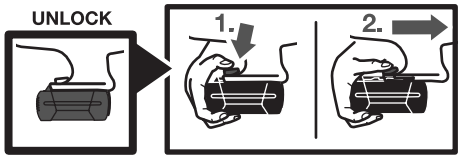
Inserting rechargeable battery

From the front, slide the charged battery 14 into the base of the hot air tool. Push the rechargeable battery all the way into the base so that the STEINEL logo is no longer visible and the rechargeable battery is securely locked in place.

Removing rechargeable battery

The rechargeable battery 14 has two locking stages that are designed to prevent the rechargeable battery from falling out after accidentally pressing the rechargeable-battery release button 9. While the rechargeable battery is inserted in the hot air tool, it is held in position by a spring.

To remove the rechargeable battery 14:
- Push the rechargeable battery towards the base of the hot air tool while pressing the release button.



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

Battery charge indicator

The three green LED's of the rechargeable-battery charge indicator 17 show the charging condition of the rechargeable battery 14. For safety reasons, the charging condition can only be requested when the electric power tool is idle.

Press button 15 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 LED's light up after pressing button 15, the rechargeable battery is faulty and must be replaced.

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

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 long life.

Temperature monitoring indicator

The red LED temperature monitoring indicator 16 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 12 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.
- The red LED 12 flashes on pressing button 15 or ON/OFF switch 4 (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.

Operation

The tool is switched ON and OFF at the 3-stage switch on the front of the grip. The distance from the object you are working on depends on material and intended method of working. Always try out airflow and temperature on a test piece first. Using the attachable accessory 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 to the "0" position by pressing switch 4. **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 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.

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 electronics engineers, car mechanics and electrical fitters. Here are just some of its many uses:

Shrink-fitting

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

Soldering / de-solder

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

Shaping

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

Peeling off self-adhesive tapes

- Removing stickers and films from painted and smooth surfaces.

Ⓙ 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

C Reflector nozzle 10 mm
Prod. No. 077556

D Precision reflector nozzle
Prod. No. 077457

Disposal

Do not throw devices, rechargeable batteries/batteries into household waste, fire or water at the end of their useful life. Rechargeable batteries/batteries should be collected, recycled or disposed of in an environmentally friendly manner.

EU countries only:
In accordance with Directive 2006/66/EC, defective or spent rechargeable batteries/batteries must be recycled. Waste rechargeable batteries/batteries can be returned to the point of purchase or to a collection facility for hazardous substances.

CE Declaration of Conformity

This product complies with Low Voltage Directive 06/95/EC, EMC Directive 04/108/EC and RoHS Directive 02/95/EC.

Functional 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. The product is guaranteed for 12 months or 500 hours of operation commencing on the date of sale to the consumer. We will remedy defects caused by material flaws or manufacturing faults. The guarantee 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 is excluded. Claims under the guarantee shall only be accepted if the product is sent fully assembled and well packed complete with sales slip 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: Our customer service department will repair any faults not covered by the warranty or occurring after the warranty has expired. Please send the product well packed to the Service Centre.

FUNCTIONAL
12 month
WARRANTY