Operating instructions

Heat-Cutter
Type HSG-0-EST, 230 V

Pic.:
HSG-0-EST
with blade type R-50
(The illustration with the cutting edge is exemplary. The cutting edge is not necessarily part of the scope of delivery.)

General information

These operating instructions belong to this product.
They contain important information about commissioning and operation.
Please observe them, even if you pass the device on to a third party.

Explanation of symbols

Please read these Operating Instructions carefully and keep them for later use!

Warnings and Precautions!

Warning about a hot surface!

Warning about dangerous voltage!

To prevent accidents and damage to the device, it is essential to heed these signs.
Please also observe this if passing the product on to others.
For this reason, please keep the Operating Instructions for further reference!

Contents

Prescribed use

In conjunction with an appropriate blade, the Heat-Cutter shall be used only to separate or to cut synthetic fabric or cords, ropes, bands and belting fabric. No other materials may be cut.

Safety notes

When working in rooms, the vapours that arise on the cutting blade during cutting must be removed directly using an extractor fan. Or only work in well-ventilated rooms.
PVC and PVC-coated materials may not be processed due to the harmful vapours arising during cutting.

Pay attention to the risk of burns when using the machine!
The cutting blades can reach temperatures of approx. 600° Celsius. Do not touch the cutting blades once you have switched the machine on. Do not lean the device against objects before the cutting blade has cooled down completely.

Danger! Danger to life due to electric shock!
A fatal electrical shock can result if water gets into the housing.
Keep the machine away from water.
If water does get in, pull the plug out immediately and do not continue to use the machine.

Any damage caused as a result of these operating instructions having been ignored will not be covered by the warranty!
We will not accept liability for subsequent damage!
We will not accept liability for damage or injury caused by inappropriate handling or ignoring of the safety notes. In such cases all warranty rights will become void.

For safety reasons, unauthorised reconstruction and/or modifications to the thermal cutting device are not permitted.

Only a correctly operating mains socket (230Volt/50Hz) in the public supply network may be used for the power supply.

Do not operate the product in unfavourable ambient conditions.
Unfavourable ambient conditions are:

- Moisture or too high air humidity,
- Dust and flammable gases, fumes or solvents,
- Strong vibrations.

Always unplug the unit when not used.

The unauthorized conversion and/or modification of the product is inadmissible because of safety and approval reasons (CE).

Make sure that the power cord does not come into contact with heat, oil or sharp edges during operation of the machine. Damaged power cords can cause fires, short circuiting and electric shocks.
The connection cable is to be replaced only by the manufacturer or his servicing agent who have a special tool available.
Machines powered by mains voltage do not belong in the hands of children.
Please exercise special caution when children are present.
The structure of the Cutter complies with the safety class II. Make sure that the insulation of the housing is neither damaged nor destroyed.

Functional description

In conjunction with an appropriate blade, the Heat-Cutter shall be used only to separate or to cut synthetic fabric or cords, ropes, bands and belting fabric. No other materials may be cut.

The blade, which is directly heated via an electronically transformer, is heated to 600 °C (1230°F) within 6 to 8 seconds.

All the synthetically material which makes contact with the blade will melt.
This causes an uninterrupted, welded edge to form. The edges welded like this will not fray.

An electronic current limiter protects the Heat-Cutter device against overloading and against a short circuit at the blades.

In the event of overloading (e.g. short circuit or wrong adjustment) the output will be turned down.
Only after the overloading has been corrected will the device be operable again.

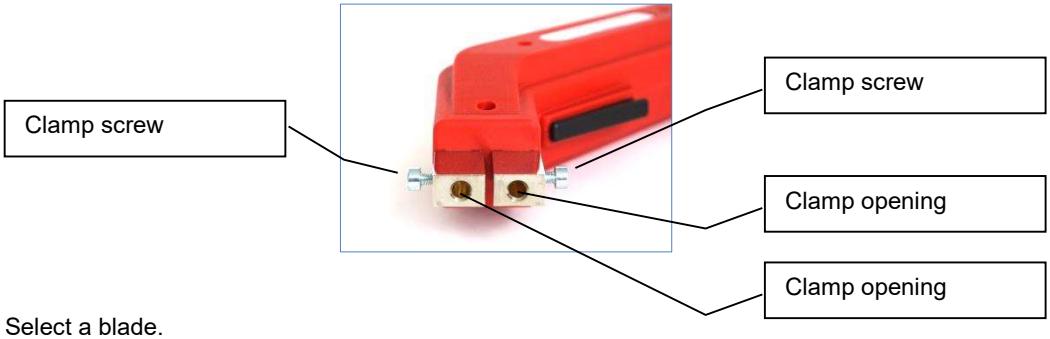
In the event of a permanent overload (e.g. non-permitted continuous operation) an integrated temperature limiter will separate the device from the mains power supply. After a cooling time of approx. 15 minutes the device can be used again.

This device is not for continuous operation, only for intermittent operation.

12s/48s on the type plate gives, at the front of the slash, the operating period provided a appropriate heat sink is available and, after the slash, the pause period for which the device should be switched off.

Commissioning

1. Loosen clamping screws at the head of the unit.



2. Select a blade.

3. Insert blade into clamp openings. Depending on the type of the work to be carried out and the material, various blades are available. In this context please observe the Permissible Blades, See Page 6.
Only insert the permissible blade (see page 6.) while the device is switched off.

4. The clamping screws should be tested for tightness with the screwdriver (included). Always check for good contact.

When inserting the blade, make sure that it is firmly screwed in so that the current flows easily. Bad connections or loose screws will lead to unnecessary heating up of the clamps, the performance of the blade will be adversely affected and the heating up of one or both of the clamps can lead to the housing becoming burned.

5. Check voltage requirements on the model identification label before plugging unit into power socket.
Check whether the mains voltage matches the voltage indicated on the type plate. Now connect the plug of the heatcutter unit to a mains socket.

6. The unit is activated by depressing the trigger. The cutting tip is operated at maximum power for a few seconds when it is switched on (Boost-function). The output is then regulated to the value set by the user.
After a heating time of approx.. 6 seconds, the operating temperature is reached.

7. You can adjust the power of the device with the power-adjustable knob.
Counterclockwise (=left turn) = less power
Clockwise (=right turn) = more power
Full power: LED permanently “red”. Reduction in power: LED darker. Overload: LED off.
Note: An excessive power setting will result in overheating of the blade.
Please adjust just as much power as needed, so you can cut easily. <u>The blade must not glow bright red!</u>

8. The blade can be cleaned while still warm with a brass brush.

9. After the work is completed the device can be put away. The switch lever automatically returns to its limiting position and switches the device off.

The switch lever must not be mechanically locked or electrically bridged

Handling

Never operate your Heat-Cutter device immediately after taking it from a cold into a warm room. Under unlucky circumstances, the condensation could destroy your Heat-Cutter device.

First let your Heat-Cutter device reach room temperature without being switched on.

The Heat-Cutter device is not permitted for applications near to people or animals.

Maintenance

Regularly check the technical safety of your Heat-Cutter device, e.g. damage to the mains connection or to the housing.

If it is likely that safe operation is no longer possible, the device should be taken out of operation and secured against unintended use. Remove the mains plug from the socket!

It must be assumed that safe operation is no longer possible if

- the device shows visible damage,
- the device no longer works and
- after long periods of storage under unfavourable circumstances, or
- after damage during transportation.

The device may only be repaired by the manufacturer or by their customer service department. The connection cable can only be replaced by using a special tool which the manufacturer or their customer service department has available.

Correction of faults

By buying this Heat-Cutter device you have purchased a product which has been constructed safely and reliably according to the current state of technology.

However problems or faults are possible.

For this reason we describe below how to correct possible problems:

Please observe the safety notes!

Problem	Solution
No function	- Has the switch lever been pressed? - Is the mains plug inserted into the socket? - Check the socket - After overloading wait for approx. 10-15 min.

Technical data

Operating voltage:	230 V - 50 Hz
Power consumption:	max. 200 Watt
Intermittent operation:	12Sec ON / 48Sec OFF (1/4 min.)
Weight:	approx. 0.58 kg, with case and access. 1.5 kg

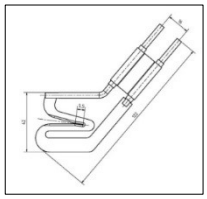
This device is not for continuous operation, only for intermittent operation.

12s/48s on the type plate gives, at the front of the slash, the operating period provided a appropriate heat sink is available and, after the slash, the pause period for which the device should be switched off.

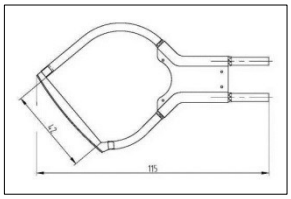
Environmental conditions

Operating temperature range (min. +max.)	+5°C to +35°C (9° to 65°F)
Relative air humidity:	max. 85 %
Air pressure:	600 to 1000 hPa

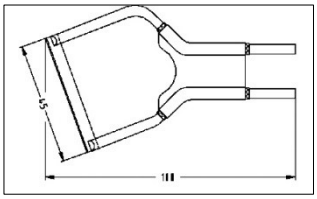
Permissible Blades (please note !!!)



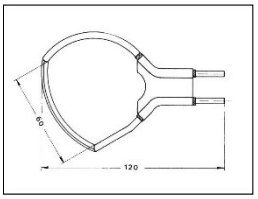
Type HS-S-15°-F



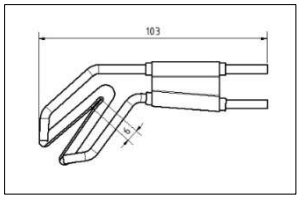
Type R-50



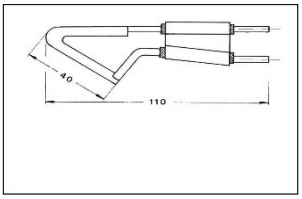
Type F-2



Type R-1



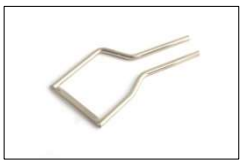
Type HS-S-15°



Type VST

Also the types: R, C, F-3, HS-S, HS-SG, V, N-1 (r = max. 15 mm), N-2 (a = max. 30 mm)

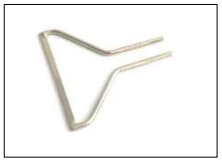
As well as our new cutting blades (without holding sheets):



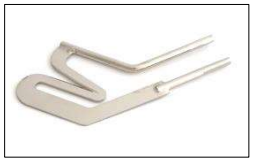
Type F-2-N

Type R-50-N

Type R-1-N



Type G-90-N



Type HS-S-15°-F-N

Other possible cutting blades on request!

Disposal

Dispose of a Heat-Cutter device which has become useless observing the statutory regulations.

Warranty

You will be granted a warranty of **6 months** except for the blade.
The warranty period starts on the day the device is purchased.
All faults caused by possible material or production errors are covered by this warranty.
The warranty lapses if the device is treated inappropriately or for purposes other than intended.

EC-Declaration of Conformity

Manufacturer: HSGM Heissschneide-Geräte und Maschinen GmbH
In der Rehbach 13
D - 65396 Walluf

Description of the device:

- Product: Plastic cutting tool
- Type: HSG-0-EST
- Electrical data: 230 V, 50 Hz, max. 200 Watt

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/30/EU

The technical documentation and full compliance with the standards and/or a certificate of a notified body listed below proves the conformity of the product with the requirements of the above-mentioned EC Directive:
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 0838-3):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
Requirements of category I

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/35/EU

The technical documentation and full compliance with the standards and/or a certificate of a notified body listed below proves the conformity of the product with the requirements of the above-mentioned EC Directive:
DIN EN 60335-1 (VDE 0700-1):2010-11; EN 60335-1:2002+A11+A1+A12+A2+A13+A14:2010
DIN EN 60335-1/A15 (VDE 0700-1/A15):2012-03; EN 60335-1/A15:2011
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

2011/65/EU „RoHS Directive“

Date of Declaration: 18.05.2021

Signature: 

Name and position of the signer: Stephan Herrmann / CEO

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