



Operating Instructions

Heat cutting machines Model HSG-00-VW



General information

These Operating Instructions belong to this product.
They contain important information about commissioning and operation.
Important information for your safety are specially marked.

Explanation of symbols



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!**

Introduction

Dear Customer,
Thank you for purchasing the heat cutting machine.
With this heat cutting machine, you have bought a state of the art product.
The product meets the requirements under applicable European and national regulations.
As user, you must follow these Operating Instructions to maintain this situation and guarantee safe operation!

Table of contents

Page

General information	1
Introduction	1
Table of contents	1
Intended use	2
Safety information	2/3
Functional description	3
Commissioning	3/4
Operation	4
Maintenance	4
Eliminating faults	5
Technical data	5
Ambient conditions	5
Spare parts	5
Disposal	6
Warranty	6
Declaration of conformity	6



Intended use

The device, in conjunction with an appropriate cutting blade band, is suitable for cutting and simultaneously sealing the edges of cord, ropes, cables, belts and braided sleeves made of fully synthetic fibres such as polyamides, polyacrylonitrile, polyester, polyethylene etc.

This assumes, however, that the material consists of fully synthetic fibres, w i t h o u t any non-fusible threads in the weft.

The cutting blade is directly electrically heated to approx. 600°C in 6 to 8 seconds by a safety transformer. Any thermoplastic material that comes into contact with this cutting blade melts. In the fibre arrangement, the individual warp and weft threads if close enough have a tendency to flow into each other, thereby forming an uninterrupted, sealed edge. The edges sealed in this way do not fray, prevent tears and in many cases mean that there is no need for a hem.

Operation under adverse ambient conditions is not permitted.

Adverse ambient conditions are:

- Wet conditions or excess humidity;
- Dust and flammable gases, vapours or solvents;
- Strong vibrations.

Safety information



Damage caused by a failure to observe these Operating Instructions invalidates the warranty!

We will not assume any liability for consequential damage!

We will not assume any liability for damage to property or for personal injury caused by incorrect use or failure to observe the safety instructions. All warranty claims will become invalid in these cases.

For safety reasons, the unauthorised modification and/or alteration of the heat cutting machine is not permitted.

The voltage must be supplied using a regular mains socket on the public mains. Attention must be paid to the supply voltage specified on the type plate.

Ensure that the heat cutting machine is correctly commissioned, paying attention to the Operating Instructions.

The commissioning must be performed by qualified staff in order to ensure the safe operation of this product.

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.

Do not expose the heat cutting machine to high temperatures, strong vibrations or moisture.

Machines powered by mains voltage do not belong in the hands of children.

Please exercise special caution when children are present. In commercial establishments, the accident prevention regulations of the health and safety executive for electrical installations and equipment must be observed.



When working in rooms, the vapours that arise on the blade band 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 blade bands can reach temperatures of approx. 600° Celsius. Do not touch the cutting blade bands once you have switched the machine on.



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.

Functional description

The machine is suitable for cutting and simultaneously sealing the edges of cord, ropes, cables, belts and braided sleeves made of fully synthetic fibres such as polyamides, polyacrylonitrile, polyester, polyethylene etc.

The cutting blade is directly electrically heated to approx. 600°C in 6 to 8 seconds by a safety transformer. Any thermoplastic material that comes into contact with this blade band melts.

Commissioning

- Check whether the available mains voltage conforms to the voltage specified on the type plate.
- The cutting blade may only be inserted when the machine is switched off.
- The toggle for the on/off switch is set to -0- .
- This means: the signalling lamp on the on/off switch is not lit up.
- Turn the power control dial to the left to the min. position -0- .
- Secure the blade band in the clamp pieces.





Caution!



- To guarantee perfect electrical continuity, it is important to ensure the blade band is screwed tight when inserted. Poor connections or loose screw connections result in unnecessary heating of terminals, the blade band output is reduced, and the heating of one or both terminals may damage the clamp pieces.

- After activating the on/off switch, the machine is ready for use.
This means: The signalling lamp on the on/off switch is lit up.
The blade band should not heat up.

- Determining the temperature setting on the dial:

A specific temperature is needed in line with the material, thickness and cutting speed.
This setting is made using the temperature dial.

The effective settings for the power control dial (= temperature dial) should be determined empirically, because the power needed by the blade band depends greatly on the type and thickness of the material to be cut, and is therefore subject to strong fluctuations.

Setting

- Switch the machine on as described above.
- Turn the temperature dial **slowly** in a clockwise direction until the blade band inserted is **dark red**.

Operation

Never operate your heat cutting machine when it has just been moved from a cold room into a warm room. The condensation that occurs may under unfavourable circumstances damage your heat cutting machine.

Leave your heating cutting machine turned off and allow it to reach room temperature.

Maintenance

Regularly inspect the technical safety of your heat cutting machine, e.g. for damage to the power cord or the housing.

If it is to be assumed that safe operation is no longer possible, the machine must be taken out of use and secured to prevent inadvertent use. Pull the plug out of the socket!

It may be assumed that safe operation is no longer possible in the following circumstances:

- If the machine shows signs of damage;
- If the machine no longer works;
- After prolonged storage in unfavourable conditions; or
- After rough handling during transport.

Repairs may only be conducted by the manufacturer or its customer service.



Warning!

The machine must be disconnected from the power supply during maintenance and when replacing parts. This is done by pulling out the plug.

The operator must be able to check that the plug is still disconnected from each point of access.

To clean the machine, it is sufficient to wipe any dust or other dirt off using a dry cloth and/or a soft brush.



Eliminating faults

With this heat cutting machine, you have bought a state of the art product that is safe to operate.

Problems or faults may nevertheless arise.

Therefore we would like to describe here how you can eliminate possible faults:



It is essential to observe the safety instructions!

Problem	Solution
No function	<ul style="list-style-type: none">- The on/off switch has not been pressed- The power plug has not been plugged in- Check the socket- The blade band has not been clamped tight- The installed fuse has blown

Technical data

Mains voltage:	230 V - 50 Hz (115 V - 60 Hz)	
Power input:	Max. 140 W	
Operating mode:	Continuous operation 100% ED	
Dimensions:	155 x 235 x 130 (200) mm	
Weight:	4.8 kg	
Nominal fuse rating:	Mains voltage 230V:	1.0 A time-lag fuse
	Mains voltage 115V:	1.6 A time-lag fuse
Mains switch with signalling lamp		
Power cord 3 m long (US-version 1.8 m)		
Machine corresponds to protection class I		

Ambient conditions

Operating temperature range (min. +max.):	+5°C to +40°C
Rel. humidity:	Max. 85 %
Air pressure:	600 to 1000 hPa

Spare parts

Blade band for HSG-00-VW Art.-No. 2700709001

When ordering other spare parts, please specify:

The machine model xxx

The serial number xxx



Disposal

Dispose of a defective heat cutting machine in accordance with applicable statutory regulations.
The machine must not be disposed of with household waste!
A defective machine must be returned to the retailer, manufacturer or municipal disposal point set up for this purpose!



Warranty

You receive 1 year's warranty on this machine. The warranty does not include the blade band.
The warranty claim starts on the day of purchase.
This warranty covers all defects based on possible material or manufacturing defects.
The warranty is invalidated in the case of incorrect use or misuse.

Conformity

Name/address of the issuer: HSGM Heißschneide-Geräte
und Maschinen GmbH
In der Rehbach 13
D - 65396 Walluf

Description of the machine:

Product designation: Plastic cutting tool
Model: HSG-00-VW
Data: 230 V, 50 Hz (115 V, 60 Hz)
Nominal output: Max. 140 W

This machine meets the requirements of EU directives

2014/30/EU "Electromagnetic compatibility"
2014/35/EU "Electrical equipment for use within certain voltage limits"
2011/65/EU "RoHS Directive"

The machine bears the CE mark for this purpose.



Stephan Herrmann
Managing Director

Walluf, 16.05.2018