



## Manual

### Styrofoam-Cutter STYRO-CUT 230

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## Explanation of symbols



This instruction manual is part of this product. Please read this instruction manual carefully and keep it for future use!



Warnings and safety instructions!



Accessible surfaces can get hot when the device is in operation!



Warning of dangerous electrical voltage!



Use eye protection!



Use protective clothing!



Use protective gloves!



The symbol of the "crossed-out garbage can" means that the device must not be disposed of in the household waste!



## Prescribed use

This device is exclusively for the cutting of polystyrene and hard foam, particularly those type boards used for facades, roof insulation or cellar insulation.

## 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. 500° 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, unauthorized modification and/or modification of the polystyrene cutter is not permitted.

Only a proper mains socket (230 volts/50 Hz) of the public supply network may be used as a power source.

Make sure that the polystyrene cutter is properly commissioned. Please refer to these operating instructions.

Commissioning must be carried out by appropriately qualified personnel to ensure the safe operation of this product.

Make sure that when the device is in operation, the connecting cable is not damaged with heat, oil and sharp edges. Damaged lead lines can cause fires, short circuits and electric shocks.

Do not expose the polystyrene cutter to high temperatures, strong vibrations or moisture.

Devices that are operated on mains voltage do not belong in children's hands. Therefore, exercise special caution in the presence of children.

In commercial establishments, the accident prevention regulations of the Association of Industrial Professionals Cooperative for Electrical Installations and Equipment.



The structure of the Cutter complies with the safety class II. Make sure that the insulation of the housing is neither damaged nor destroyed.

Always unplug the unit when not used.



Wear appropriate protective clothing, protective gloves and goggles when working. Molten plastic and splashes can cause serious burns or eye damage!



## Functional description

In conjunction with an appropriate blade, the device is suitable for cutting hard polystyrene foam such as wall insulation board, roof insulation board and cellar insulation board. No other materials may be cut.

The blade, which is directly heated via an electric transformer, is heated to 500 °C (925°F) within 6 to 8 seconds. All the polystyrene foam material which makes contact with the blade will melt.

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.

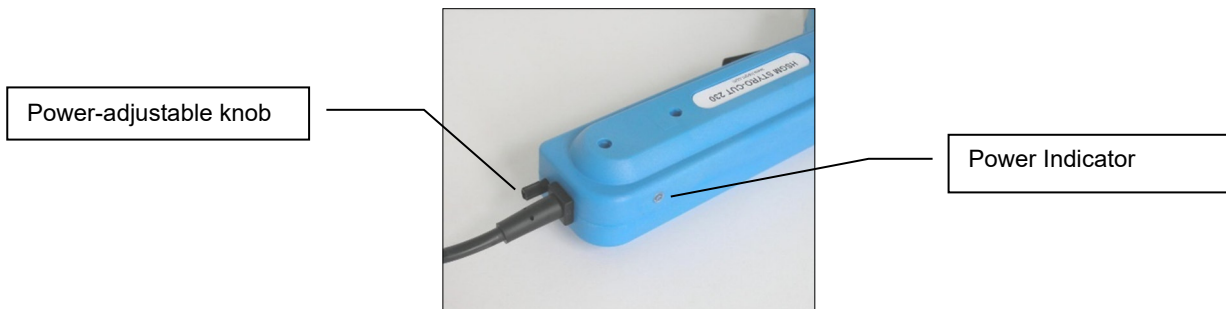
**This device is not for continuous operation, only for intermittent operation.**

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.



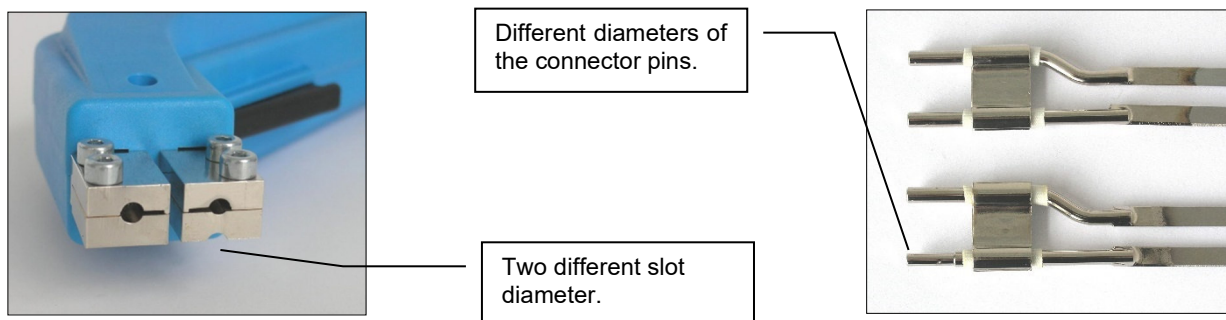
## Commissioning

1. Loosen clamping screws at the head of the unit.
2. Select a blade based on the board thickness, so all the blade heat is used in the board.
3. Insert blade into clamp openings.
4. The 4 clamping screws should be tested for tightness with the screwdriver (included). Always check for good contact.
5. **Check voltage requirements on the model identification label before plugging unit into power socket.**
6. The unit is activated by depressing the trigger. After a heating time of 10 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. The blade must not glow.  
This should be tested with a rest of a styrofoam board.



## Please note

For the use of blades with different diameters of the connector pins (C-100, CN-14, CN-20, CN-26, CR-20, CS-20), the device is equipped with a universal clamp connector. One of the clamps has two different slot diameters. The clamping piece can be easily unscrewed and rotated for a perfect clamping of the different cutting blades.



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 Styrofoam-Cutter device reach room temperature without being switched on.

The Styrofoam-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	<ul style="list-style-type: none"><li>- Has the switch lever been pressed?</li><li>- Is the mains plug inserted into the socket?</li><li>- Check the socket</li><li>- After overloading wait for approx. 12-15 min.</li></ul>

## Technical data

Operating voltage:	230 V - 50 Hz
Power consumption:	max. 230 Watt
Intermittent operation:	12Sec ON / 48Sec OFF (1/4 min.)
Weight:	approx. 0,6 kg, with plastic case and access. 1,5 kg



## Environmental conditions

Operating temperature range (min. +max.)  
Relative air humidity:  
Air pressure:

+5°C to +35°C (9° to 65°F)  
max. 85 %  
600 to 1000 hPa

## Permissible Blades

Type DSS-200  
For boards  
up to 180 mm (7.1")



Type DSS-220  
For boards  
up to 200 mm (7.9")



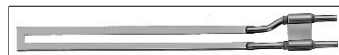
Type DSS-250  
For boards  
up to 230 mm (9.1")



Type C-100  
For boards  
up to 100 mm (4")



Type C-140  
For boards  
up to 140 mm (5.5")



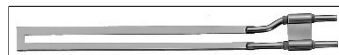
Type C-160  
For boards  
up to 160 mm (6.3")



Type C-180  
For boards  
up to 180 mm (7.1")



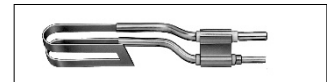
Type C-200  
For boards  
up to 200 mm (7.9")



Type C-230  
For boards  
up to 230 mm (9.1")



Type CN-14, curved  
For 14 mm grooves



Type CN-20 curved  
For 20 mm grooves



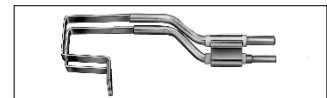
Type CN-26 curved  
For 26 mm grooves



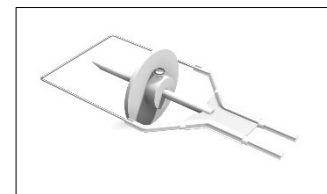
Type CR-20 curved  
For 20 mm grooves  
With depth guide



Type CS-20 curved  
For 20 mm grooves  
With depth guide



Connector socket cutter  
Typ D68-61  
For cutting holes Ø 68 mm



Profile-Section-Adapter type P-A, to cut individual grooves into styrofoam.  
Groove width from 40 - 120 mm.  
Picture shows tool HSGM Styro-Cut 230 with Profile-Section-Adapter type P-A



## Disposal

The symbol of the crossed-out garbage can means that the device must not be disposed of with household waste! An unusable device can be returned to the retailer or manufacturer free of charge or handed in at a designated collection point for electrical and electronic waste.



If the old electrical or electronic device contains personal data, you are responsible for deleting it yourself before returning it.

## Guarantee

HSGM GmbH warrant this appliance (with exception of the blade) for a period of 1 years commencing with the date of sale. The guarantee is given against defects in material and workmanship. It is voided by improper operation, disassembly, repair or alteration by owner or unauthorized third parties.

## Declaration of Conformity

Manufacturer's name/address: HSGM Heißschneide-Geräte  
und Maschinen GmbH  
Industriestraße 30  
D – 65366 Geisenheim

Product name: Plastic cutting tool  
Type designation: Styro-Cut 230  
Operating voltage: AC 230 Volt  
Power consumption: max. 230 W

This device fulfil the requirements of the EU-Directives:

### 2014/30/EU „EMC-Directive“

DIN EN IEC 55014-1 (VDE 0875-14-1):2022-12; EN IEC 55014-1:2021  
DIN EN IEC 61000-3-2 (VDE 0838-2):2019-12; EN IEC 61000-3-2:2019  
EN IEC 61000-3-2:2019/A1:2021  
DIN EN 61000-3-3 (VDE 0838-3):2023-02; EN 61000-3-3:2013+A1+A2+A2/AC:2022  
DIN EN IEC 55014-2 (VDE 0875-14-2):2022-10; EN IEC 55014-2:2021  
Anforderungen der Kategorien II / Requirements of categories II

### 2014/35/EU „Low Voltage Directive“

DIN EN 60335-1 (VDE 0700-1):2020-08; EN 60335-1:2012+AC+A11+A13+A1+A2+A14:2019  
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/EC „RoHS-Directive“

Therefore this device is marked with the CE-Mark.



Stephan Herrmann  
(CEO)

Walluf, 09.02.2024