HILLCUTTER-PRO & HILLCUTTER-PREMIUM
INSTRUCTION MANUAL

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SAFETY NOTES

Read all safety information and instructions. Failure to comply with these instructions may result in an electric shock, fire, explosion or injury. Retain all safety information and instructions for future reference. The terms "electric power tool" and "equipment" used in the safety information and instructions relate to foam cutter. The term: "application tool" relates to the accessories.

WORK AREA SAFETY

FIRE PROTECTION AND HEALTH: SPECIAL SAFETY INFORMATION WHEN HANDLING RIGID FOAMS MADE FROM EXPANDED POLYSTYRENE (EPS, STYRODUR©, STYROPOR®), EXTRUDED POLYSTYRENE FOAM (XPS) OR SIMILAR MATERIALS, IN RELATION TO THE RISK OF EXPLOSIONS AND HAZARDOUS VAPOURS.

1. Please note that the storage, handling and attachment of rigid foams is subject to special safety regulations. Read and observe all safety information and instructions from the rigid foam manufacturer.

2. Please note that during the processing of rigid foams, and particularly when cutting with heated wires or blades, flammable, potentially harmful or harmful vapours may escape, such as pentane, styrene, etc. For this, please read the manufacturer's information, observe the MAK values and follow the manufacturer's instruction which relate to this. In addition, make sure that the work area is safe before every operation and cleaning procedure by following these instructions:

2.1 Do not use any materials with a softening temperature of less than 100 °C (212 °F).

2.2 Do not use any materials with an ignition temperature of less than 300 °C (572 °F). .

2.3 Do not use any self-igniting or easily flammable materials in accordance with the standard EN 13501-1 / DIN 4102-1.

2.4 Do not use any materials which may be explosive or oxidising.

2.5 The entire work environment must be free from any sources of ignition such as other electrically-driven power tools that are switched on (spark formation), open flames, lit cigarettes or similar.

2.6 Keep your work environment clean, dust-free and well-lit in order to prevent the risk of fire and explosions, as well as damage to health, due to vapours.

Operation is not permitted when doors and windows are closed. Keep your work environment well-ventilated in order to prevent flammable and/or harmful vapours from collecting.
Bear in mind that the flammable vapours are generally heavier than air and can accumulate near to the ground. For this reason, make sure that any vapours which arise are sufficiently suctioned away, and also ensure that the floor area of the room is well-ventilated.

2.7 Keep your work environment clean, dust-free, well-lit, well-ventilated, and free from ignition sources (such as electric power tools that are switched-on - due to spark formation - open flames, lit cigarettes) in order to prevent the risk of fire, explosion or damage to health due to vapours or dust. Working in potentially explosive environments is prohibited.

ELECTRICAL SAFETY

3. Inspect the power cable for damage before the start of each operation. Handle the power cable with care: Avoid tightly rolling-up/twisting the cable, always pull the cable from the socket by holding the plug, keep it away from heat, oil and sharp edges, do not store the cable in a tangled mess.

4. Make sure that you connect the plug to a properly earthed mains supply with a protective ground conductor. The connecting plug must fit in the socket. Observe the mains voltage! The voltage of the power source must correspond to the information on the type label of the charging device.

5. It is recommended to use a C16 A circuit breaker, or one more powerful.

6. If you have to work outdoors with the equipment, only use an extension cord authorised for use in outdoor areas.

Protect yourself against electric shocks!

7. While the device is connected to the mains supply, prevent it coming into physical contact with earthed surfaces, e.g. pipes, radiators, refrigerators, etc.

8. When working, hold the device at the insulated gripping surfaces.

9. The device must not be connected to the mains supply during preparation for use, maintenance and cleaning.

10. In wet conditions, neither persons in the work area, nor the equipment may come into contact with any water which has leaked out. Ensure that no rain or moisture enters the electric power tool. Operation in wet conditions is strictly prohibited.

11. The equipment does not have a safety switch. For this reason, do not work on any damp materials or surfaces and do not work in a damp environment.

12. The simultaneous operation of several electric power tools will result in overloading and can potentially cause a fire, short circuit and irreparable damage to the equipment.

13. Clean the surface of the equipment regularly, as well as the ventilation slots on the electric power tool. Please note that the motor fan pulls dust into the casing. A large build-up of conductive dust (for example, metallic dust, or moist dust) could potentially create an electric shock.

PERSONAL SAFETY

14. Never let the application tool come into contact with any parts of your body once the equipment is connected to the mains supply. During use of the electric power tool, never reach under the workpiece or hold the workpiece in your hand or over your leg. Otherwise you will risk serious injury. Please note that gloves or clothing do not offer reliable protection against injuries or burns from the heated rotating application tool. Observe the cool-down time of the application tool after disconnecting the electric power tool from the mains supply.

15. Avoid turning on the equipment unintentionally.

► Before connecting the equipment to the power supply, ensure that the switch is set to OFF and the application tool is at a standstill and has cooled down.

► The equipment must be turned off and the application tool must have cooled down before you put the equipment down or change workpiece.

► The power plug must be pulled out before every change of application tool, and each maintenance and cleaning operation. Please note that the application tool

won't immediately cool down upon switching off the equipment. Wait until the application tool has come to a standstill and cooled down.

16. The application tool must be completely assembled and locked before the equipment is turned on. Only use the original application tools.

17. Secure the workpiece from slipping out of place to avoid accidentally coming into contact with the application tool.

18. Remove the adjustment tools (e.g. screw wrenches) and keep the work area clean before turning on the equipment.

19. Dust may be created during works, which may lead to skin, eye and/or respiratory irritation. For this reason, wear appropriate protective clothing, gloves, safety shoes and a safety mask. Wear safety goggles which correspond to ANSI requirements and offer protection against flying particles both from the front as well as from the side.

20. Handle the equipment's moving parts with care. Tie your hair back and do not wear any jewellery or loose clothing. Otherwise, it might get caught in moving equipment or application tools.

21. During work, ensure that your grip and stance are balanced and stable. Do not work on a ladder.

22. Look out for any signs of your body becoming fatigued and stop working if these signs of fatigue occur.

23. You must not use the electric power tool if you are suffering from sleep deprivation or are under the influence of alcohol, intoxicants or medication.

24. Do not allow adults to use the equipment if they have not read these instructions or are unable to follow them.

25. Children and young people are not permitted to use the equipment and application tools. Instruct children that they are not allowed to play with the objects mentioned above. Keep these objects out of the reach of children.

USE OF THE ELECTRIC POWER TOOL AND THE APPLICATION TOOLS

26. Do not overload the equipment, and use the equipment and its application tools in accordance with these instructions and their intended use. Otherwise, there may be risk to health and life.

27. Before each use of the equipment, all protective devices, cable connections, accessories and application tools must be thoroughly checked for damage in order to ensure that the equipment and its application tools are working properly, with all of their functions. Perform the following steps:

27.1 For electric power tools with blades and attachments: Tighten any loose screws. For electric power tools with a wire: Inspect the springs and the tension of the cutting wire. Please note that the wire in particular is used under tension. A worn-out wire can suddenly break and cause serious injury. For this reason, always wear safety goggles!

27.2 Before each use, inspect the equipment for damages, cracks, deformation or noticeable traces of wear and tear. Do not use the device if any of these are present.

27.3 Inspect the orientation and connections of the application tools and all moving parts, as well as the cable, for breakages, strong traces of wear and tear, other

impairments, and any other circumstances which may affect operation. If these are present, do not use the equipment and/or the application tools.

27.4 Worn-out protective devices or other faulty parts must be replaced, or professionally repaired by an authorised workshop. Damaged or worn-out application tools must not be repaired; they must be replaced.

27.5 If you have inspected and used the application tool, you should carry out the test steps as described in the paragraph entitled "Initial operation" in order to identify possible undetected damages to the application tools during the test run. Keep other people away during the test.

28. Application tools must fit exactly into the tool holder and must only be used for the recommended applications. Do not use any application tools that the manufacturer has not specifically intended for this electric power tool. In the event that an application tool from a non-authorised manufacturer is attached to the electric power tool, a warranty for safe use is excluded. The use of intermediate layers, reducing bushings or adapters is prohibited.

29. Risk of burns: Never hold your hand in front of the heated application tool, Never let the heated application tool come into contact with any parts of the body. During use of the electric power tool, never reach under the rigid foam sheet or hold it in your hand or over your leg. Otherwise you will risk serious burns due to accidentally touching the heated application tool. Please note that gloves or clothing do not offer reliable protection against injuries or burns from the extremely heated application tool. After switching-off, observe the cool-down time of the application tool before placing the electric power tool down.

30. Workpieces which pose a danger to health, such as asbestos, must not be handled.

SAFETY INFORMATION FOR BATTERIES

31. Only charge the batteries in the charging device provided.

32. Only the supplied battery recommended by the manufacturer should be used in the electric power tool.

33. Protect the unused battery from metallic objects (e.g. coins, keys, etc.). Metallic objects can create a bridging of contacts and, as a consequence, lead to short circuits which could irreversibly damage the battery.

34. Risk to health: The battery must not be opened. It is essential that mechanical damage to the battery is avoided. Failing this, there will be a risk of short circuits and a risk to health: If liquid leaks from the battery, this can lead to severe skin irritation. In the event of accidental contact with the skin, immediately rinse thoroughly with water. If the liquid gets into the eyes, medical treatment is necessary. In the event that vapours are inhaled, immediately seek fresh air. In the event of persistent symptoms, seek immediate medical treatment.

35. Risk of explosion: Do not expose the battery to water/moisture or heat (e.g. constant sun exposure, fire, radiators).

36. Do not use any damaged or worn-out batteries.

SAFETY INFORMATION WHEN HANDLING CHARGING DEVICES

37. The charging device is also an electrical tool. Observe the general safety information when handling electrical tools, particularly in relation to electrical

safety and the safety of persons.

38. Inspect the power cable and charging device for damages or traces of wear and tear before each operation of the charging device. Damaged charging devices or cables must not be used.

39. Make sure that you connect the plug to a properly earthed mains supply with a protective ground conductor. The connecting plug of the electrical tool must fit in the socket. Observe the mains voltage! The voltage of the power source must correspond to the information on the type label of the charging device.

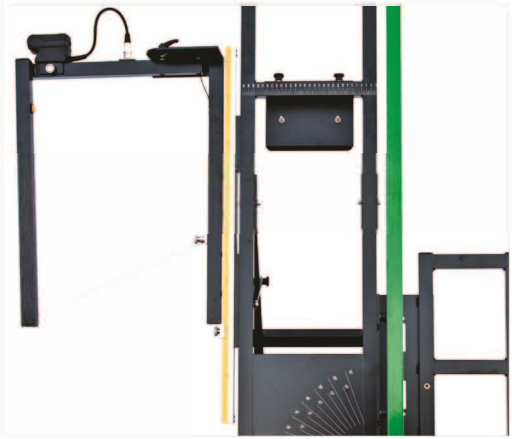
40. The charging device is only suitable for indoor operation: do not use it outdoors. Keep it clean and away from moisture and rain.

41. Do not operate the charging device on flammable surfaces (e.g. paper).

SERVICE

42. The equipment must only be repaired by qualified personnel using original spare parts. Application tools must not be repaired, rather they must be replaced.

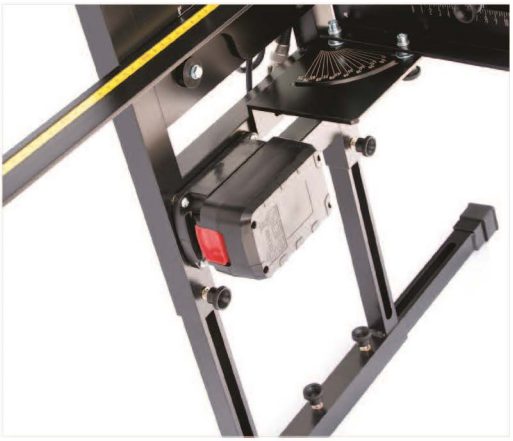
SPECIAL EQUIPMENT



Corner- and Rafter Cutter on the Hillcutter Pro

Corner- and Rafter Cutter on the Hillcutter Premium

The Corner- and Rafter Cutter can optionally be operated with a rechargeable battery



The Foam Cutter can optionally be operated with a rechargeable battery

INTENDED USE

The machine is intended for the cutting of non-plasticized foam (for example Polystyrene or Styrodur). The non-plasticized foam slabs must be free of adhesive, adhesive residues or any other kind of contamination.

ASSEMBLY

Before any work on the machine itself, pull the mains plug and read all the instructions. Non-observance of the instructions below can cause electric shock, fire and or serious personal injuries.

The following assembly instruction describes all models and all optional equipment available for your foamcutter. Please note that your foamcutter may not be equipped

with all of the described functions and accessories. A complete overview of accessories can be found in our accessory program.

Assembly Instruction: Page 2-3

STARTING OPERATION

Before starting operation read all the instructions. Non-observance of the instructions below can cause electric shock, fire and or serious personal injuries.

1. For start up it is only necessary to plug in the XLR-connector (2) of the transformer into the corresponding socket on the bow and connect the power plug to the power socket.

1.1 The XLR-connector (3) is for the footswitch (optionally).

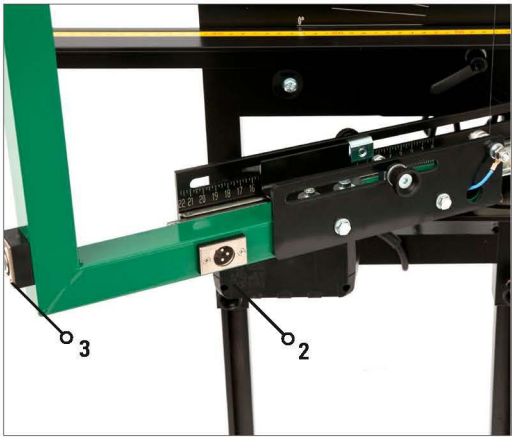
2. Both hot wire foam cutters have two ways of how the hot wire can be activated.

2.2 On/Off switch, which should be switched off once the cuthas been made.

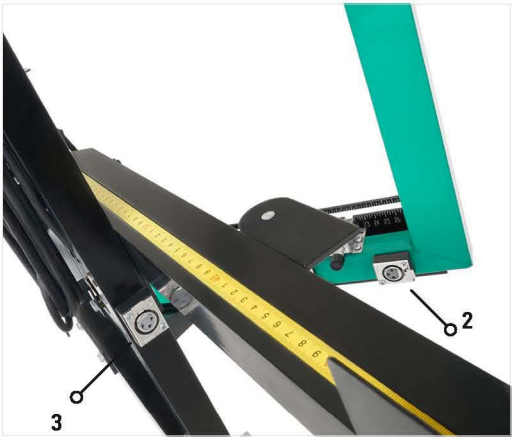
2.3 Pushbutton, which is depressed to heat up the wire. After using either the On/Off switch or the Pushbutton, the hot wire is fully functional within seconds.

3. Now pull the bow in the direction of the material – the hot wire will cut through the material.

4. **Fire risk!** Release the On/Off switch after every cut has been made; the hot wire cools down within a few seconds.



Hillcutter Pro



Hillcutter Premium

REPLACING THE HOT WIRE

Before any work on the machine itself, pull the mains plug and read all the instructions. Non-observance of the instructions below can cause electric shock, fire and or serious personal injuries.

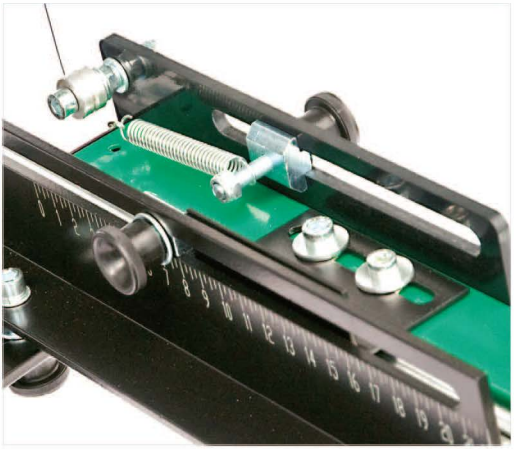
HILLCUTTER PRO

1. Carefully remove anyremaining old hot wire.

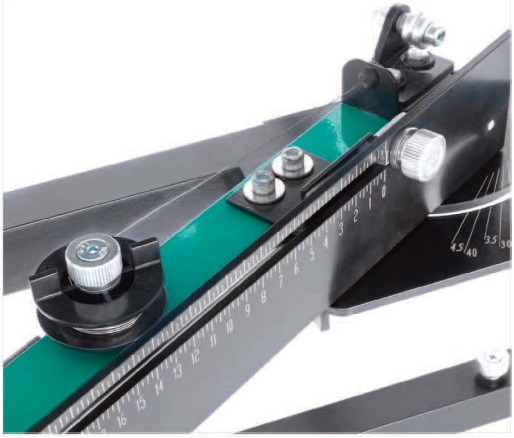
2. Hook the new hot wire to one of the springs and then under tension to the opposite spring. Be careful not to bend or damage the new hot wireduring installation.

HILLCUTTER PREMIUM

1. Carefully remove the remaining wire on the upper spring.
2. Loosen the black plastic spool screw and completely remove the wire.
3. Attach the new black plastic spool to the bow and carefully thread the wire through the rubber part.
4. Thread the wire through the loop on the upper spring and twist the wire end several times.
5. Now lay the wire over both pulleys (the spring tightens). Pay attention to the exact positioning of the hot wire at the top and bottom.
6. Now turn the black plastic spool until the wire tensions and then tighten the overlying screw. Be careful not to bend or damage the new hot wire during installation. Occasionally check the tension and correct position of the hot wire.



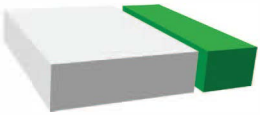
Hillcutter Pro



Hillcutter Premium

Cutting wire: Contrary to new spare wires the wire installed in the foam cutter is not copper coloured anymore but dark. This does not constitute a defect but is a sign that the cutter was checked in hot condition for its proper functioning before leaving the plant.

CUTTING VARIANTS

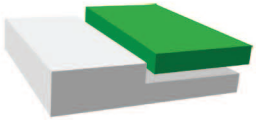


STRAIGHT CUT

Bow – Adjust angle right and left to 0 degree. Mark the required dimensions on the polystyrene sheet. Lift bow in order to draw the material to be cut underneath the cutting wire. Place the material on the placement angle and pull it forward up to the required measure. Press pushbutton and keep it pressed (cutting wire heats up) Pull bow in direction of the material – material will be cut. Release pushbutton.

DIAGONAL CUT

Bow – Adjust angle right and left to 0 degree. Mark the required step (height and length) on the polystyrene sheet. Lift bow in order to draw the material to be cut underneath the cutting wire up to the marked length. Press pushbutton and keep it pressed (cutting wire heats up). Pull bow in direction of the material – step depth will be cut. When reaching the step depth pull the material to the left until the step is completely cut. Release pushbutton.

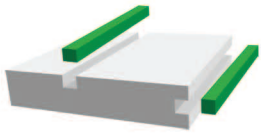


TWO-STEP CUT

Bow – Adjust angle right and left to the required angle. The supplied angular stop is
required for this purpose. Lift bow in order to draw the material to be cut underneath the cutting wire up to the beginning of the cut. Press pushbutton and keep it pressed (cutting wire heats up). Pull bow in material direction – bevel will be cut. Release pushbutton.

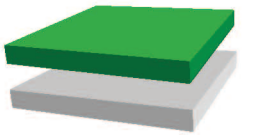
BEVEL

Bow – Adjust angle right and left to 0 degree. Mark required cut on the polystyrene sheet. Lift bow in order to draw the material to be cut underneath the cutting wire. Adjust material in such a way that the required cut will exactly go along underneath the cutting wire. Press pushbutton and keep it pressed (cutting wire heats up). Pull the bow in material direction – material will be cut. Release pushbutton .



CONCAVE CUT

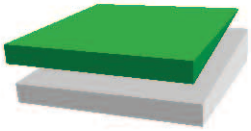
Bow – Adjust angle right and left to 0 degree. Mark required hollow groove on the polystyrene sheet. Lift bow in order to draw the material to be cut underneath the cutting wire up to the marked place. Press pushbutton and keep it pressed (cutting wire heats up). Pull bow in material direction – step depth will be cut. When reaching the step depth pull the
material to the right towards the marked place until the step length has been cut. Pull the bow upwards out of the material. Release pushbutton .



SURFACE CUT

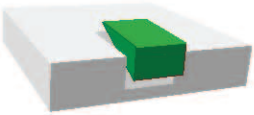
Fix side placement board on the baseboard with the enclosed bolts. Adjust strap angle to the left and right to 0°. Adjust height limit stops to the left and right to required material thickness. Set placement angle to 0°. Place material on the placement angle.

SLANTED INSULATION CUT



Make sure that your styropor cutter is equipped with slant-cutting equipment, or bring the slant-cutting equipment to the styropor cutter and fix the cutting wire. Adjust strap angle to the left and right to 0°. The required wedge is adjusted through loosening the upper locking screw on the slant-cutting equipment and displacement of the upper (movable) wire receptacles. Adjust the cutting wire to material zero-point with the aid of the height limit stops to the left and right. Set placement angle to 0°. Attach additional placement board to styropor cutter. Place material on the placement angle.

RAFTER CUT



Make sure that your styropor cutter is equipped with corner and rafter cutter, or bring the equipment to the styropor cutter. The required rafter cut is adjusted through loosening the locking screw on the equipment and displacement of the upper (movable) wire receptacles. Set placement angle to 0°. Place material on the placement angle. Grip the strap from the left-hand side (not the side of the cutting wire) and press the pushbutton in the strap. Slide the strap in the direction of the material – rafter depth is cut. On reaching the rafter depth, slide the material to the left from the limit stop rider until the rafter length is cut. Pull the strap upwards out of the material.

Further cuts:

Mitre cut with mitre joint

Step cut with mitre joint

Window soffits

MAINTENANCE, WARRANTY AND CLEANING

Before maintenance, cleaning and storage, pull out the power plug and read all of the safety information and instructions. Failure to comply with the safety information and instructions may result in electric shock, fire and/or serious injury.

Cleaning

In particular, ventilation openings and the tool holder must be cleaned using a cloth and brush after every use. If compressed air is used, it must not exceed 3 bar. Do not use solvents to wipe the plastic parts clean.

Warranty

The statutory warranty ends two years after delivery to private persons and one year after delivery to retailers. Wear parts are not covered by this warranty.

Disposal

The machine, accessories and packaging should be sorted for environmental-friendly recycling. Do not dispose of power tools into household waste! Only for EC countries: According to the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Technical data	Hillcutter Pro	Hillcutter Premium
Cut length	1.350 mm	1.350 mm
Cut depth	320 mm or or 450 mm	320 mm
Weight	11 kg	13 kg
Transformer power with thermoprotection	40 V / 200 Watt / 230V – 50/60Hz / IP 68	40 V / 200 Watt / 230V – 50/60Hz / IP 68

Declaration of Conformity

We declare that the following product corresponds to the determinations of the directives identified below – including their changes applicable at the time of the declaration. Any conversion or change of the machine on the part of unauthorised third parties, which is not co-ordinated with us, means the immediate loss of the validity of this declaration.

Product: Polystyrene cutter (Foamcutter)

Relevant EU Directives

98/37/EG
73/23/EWG
2004/108/EC
2006/95/EC

Applied standards

EN 55014-1 (VDE 875 Teil 14-1): 2003-09; EN 55014-1:2000 + A1:2001 + A2:2002
EN 55014-2 (VDE 875 Teil 14-2): 2002-08; EN 55014-2:1997 + A1:2001
EN 61000-3-2 (VDE 838 Teil 2): 2001-12; EN 61000-3-2:2000
EN 61000-3-3 (VDE 838 Teil 3): 2002-05; EN 61000-3-3:1995 + Cor.:1997 + A1:2001
EN 60335-1 (VDE 07000-1):2007-02; EN 60335-1:2002+A11+A1+A12+Corr.:+A2:2006
EN 60335-2-45 (VDE 0700 Teil 45): 2003-06; EN 60335-2-45:2002
EN 50366 (VDE 0700-366):2006-11; EN 50366:2003+A1:2006

Applied harmonized standards

EN ISO 12100-1
EN ISO 12100-2

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