

**FOAM
TRIM
PLUS**

NEOLT



160

125

USER MANUAL

foam trim PLUS
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USER MANUAL

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DATA OF THE MANUAL

1.1

Instruction manual. **TRIMMER**
Code of the manual: **NLT.QU-I-AR-MM-3-3S-GB.**

USERS

1.2

Instruction manual.	
1*	Transp
orter.	
2*	Installer
.	
3*	User.
4*	Mainte
nance personnel.	
5*	Demolit
ion squad.	

✓ For further details on the users of this manual, see 2.2 *Qualifications of the personnel.*

PROPERTY OF THE INFORMATION

1.3

The information contained in this manual is reserved property. All rights are reserved.

This manual cannot be reproduced or copied, as a whole or in parts, without prior written consent of NEOLT S.p.A. These documents are provided only for the use of the client whom the manual has been supplied to with the machine, and can be used only for the installation, use and maintenance of the machine the manual refers to.

NEOLT S.p.A. states that the information of this manual is congruent to the technical and safety requirements of the machine the manual refers to. The manufacturer cannot be held responsible for any direct or indirect damages to people, objects or animals due to the use of these documents or of the machine in conditions other than those authorised.

NEOLT S.p.A. reserves the right to change or improve, without notice, these documents and these machines, and also other machines marketed of the same model as the one this manual refers to but with a different serial number. The information of this manual particularly refers to the machine specified in 1.6 *Identification data of the machine.*

CONVENTIONAL TERMS**1.4.1**

Machine: indicates the machine specified in 1.6. *Identification data of the machine.*

Casing: bearing structure of the machine.

Qualified personnel: people, who thanks to their knowledge and experience, as well as the knowledge of the relevant norms, safety requirements and service norms, are able to recognise and avoid any possible danger for the people, the material and the machine.

The descriptions of **direction, sense and position** (on the right of the machine, on the left of the machine) refer to the position of the operator in front of the machine.

CONVENTIONAL SYMBOLS USED**1.4.2**

Text in italics: indicates the title of a chapter, a section, a sub-section, a paragraph, a chart or a picture of this manual, or another reference manual.

1 (generic number as an example): symbolic representation of a command device or signal.

A (generic letter as an example): symbolic representation of a part of the machine.

✓ Notes contain important information, and are pointed out after the text they refer to.

☐ The danger symbols indicate those procedures, which, if not observed, could cause physical damages to the operator. The manufacturer cannot be held responsible for any damages to people due to non-compliance with these norms.

☐ The warning symbols indicate those procedures which, if not observed, could damage the machines or the devices connected to it. The manufacturer cannot be held responsible for any damages to objects due to the non-compliance with these norms.

IDENTIFICATION DATA OF THE MANUFACTURER

1.5

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E-mail.: mkt@neolt.it

IDENTIFICATION DATA OF THE MACHINE

1.6

Type	FOAM TRIM
Model	Foam trim PLUS
Serial number	
Year of construction	

NEOLT S.p.A. offers a one-year warranty on the machine.

The parts subject to normal wear out are not included in the warranty. The warranty is limited to the substitution or repair of the parts that should result damaged or defected.

The assessment of the defects and causes is carried out by NEOLT S.p.A.

The warranty is cancelled if the machine is used incorrectly, or in an improper or excessive way, if any non-original spare parts are used and for non-compliance with the norms of this manual.

In no case can the purchaser demand the resolution of the contract, claim for damages or the extension of the warranty.

-
-
- ✓ NEOLT S.p.A. cannot be held responsible for any negative advertisement, or loss of earnings, due to technical or mechanical malfunctioning of the product in use or in display.
-
-

NEOLT S.p.A. provides, upon request, assistance for the installation and the maintenance of the machine.

Carefully read the chapters *General information*, *Safety information*, *Characteristics of the machine*.

-
-
- ✓ Please consult the relative chapter for any transportation, installation, use, maintenance and demolition operation.
This manual and the enclosed documentation must be kept for the entire technical life of the machine in order to consult it quickly when necessary.
If the machine is sold as second -hand, this manual and the enclosed documentation must be supplied along with the product.
-
-

CORRECT USE OF THE MACHINE**1.10.1**

The machine must be used only to cut the media which it has been designed for (FOAM).

The machine is made of physically independent and autonomous groups; therefore the proper use of the machine also refers to the correct functioning of only one part of it.

Use of the machine

The installation and the maintenance of the machine must be carried out by qualified personnel only.

The machine was designed to be used in an area with the following characteristics:

- 6* Protection from atmospheric agents
- 7* Proper illumination
 - 8* Temperatures between 18° C and 35° C.
- 9* Amount of humidity from 30% to 80%

INCORRECT USE OF THE MACHINE**1.10.2**

Any use other than that indicated in part *1.10.1 Correct Use*, is to be considered incorrect, especially:

- 10* Using the machine in ways that differ from those which it has been designed for, represents an anomalous condition and could therefore damage the structure of the machine.
- 11* Using the machine without its protections and without the safety equipment it is provided with.
- 12* Not observing the procedures of this manual and especially the maintenance and repair norms.
- 13* Using the machine in an area at risk of fire or explosions if the machine itself does not have the proper fire equipment.
- 14* Using the machine in areas containing explosive materials.
- 15* Using the machine in an inflammable area.

The machine is made of the following parts:

- A Feeding surface
- B Table
- C Carriage handle
- D Carriage sliding bar
- E Squadretta di riferimento
- F Carrello porta lama
- G Plexiglas guarding
- H Sheet holder bar
- I Sheet holder bar handle

The machine has been designed and made in compliance with the essential safety criteria.

Thanks to the accurate analysis carried out by the manufacturer, most of the risks linked to the conditions of use of the machine, both foreseeable and reasonably foreseeable, have been eliminated.

The complete documentation including all the safety norms adopted is in the technical booklet of the machine, which is deposited at the manufacturer's premises.

The manufacturer recommends strict compliance with the instructions, procedures and recommendations of this manual and with the laws in force on the safety in the work place. This also refers to the use of the protection devices foreseen, both those integrated in the machine and personal.

✓ NEOLT S.p.A. cannot be held responsible for any damages to people, animals or objects due to non-compliance with the safety norms and recommendations of these documents.

T TECHNICAL SPECIFICATIONS OF OPTIONAL LASER MODULE

2.1.1

Laser classification	CEI,76-2
Standard	CEI EN 60825-1 laser class 3 A .
Emission	<5 mW

Safety

Class **3 A**, lasers, in the wave length interval between 400 and 700 nm. do not require particular safety blocks or keys to operate

Stage of the technical life of the machine	Qualification of the operator in charge
Transportation	Qualified transportation
Installation	Qualified personnel
Use	Qualified personnel
Ordinary maintenance	Qualified personnel
Extraordinary maintenance	Technicians appointed by NEOLT S.p.A.
Demolition	Qualified personnel

✓ NEOLT S.p.A. cannot be held responsible for any damages to people, animals or objects due to non-compliance with the safety norms and recommendations of these documents

□ Tampering with the protections and the safety devices is dangerous for the people using the machine and for those exposed to it.

✓ NEOLT S.p.A. cannot be held responsible for any damages to people, animals or objects due to tampering with the protections.

The machine is provided with the following types of covers.

Inter-locked moving protections:

- Plexiglas blade holder carriage, right side.
-
-

All the areas around the machine in which people are at risk of injuries or health problems are considered dangerous.

-
-
- ☐ Pay close attention to hands during cutting operations (**Fig. 2.1**) and when the sheet holder bar is being lowered (**Fig. 2.2**).
-
-

During certain intervention procedures on the machine, which are pointed out each time in this manual, residual risks for the operator may arise. Residual risks can be avoided by carefully complying with the procedures of this manual and using the personal protection devices indicated, such as:

- Maintenance and service operations must be carried out only by the technical service authorized by the manufacturer. Maintenance
- Paying attention to the danger notices on the trimmer machine. Paying
- Position the power cable of the optional LASER module so that it is not stepped on or ruined. Position
- Do not put the power cable of the optional LASER module where it can be damaged. Do not

-
-
- ✓ NEOLT S.p.A. cannot be held responsible for any damages to people, animals or objects due to non-compliance with the norms or avoidance in using the prescribed individual protection devices (IPD).
-
-

TECHNICAL INFORMATION

3.1

	125	160
<input type="checkbox"/> Max. length of cut (cm)	125	160
<input type="checkbox"/> Length (cm)	165	200
<input type="checkbox"/> Width (cm)	58	58
<input type="checkbox"/> Height with support (cm)	25	25
<input type="checkbox"/> Weight (Kg)	21	24
<input type="checkbox"/> Allowed media	see table of media 3.3.1.	
<input type="checkbox"/> Accessories	Laser tracer	

POWER SUPPLY DATA OF OPTIONAL LASER TRACER

3.2

- Voltage and single-phase frequency:
230V/240V 50Hz – (110V/60Hz).
- Absorption:
max. 0,2A – (max. 0,5A).

Responsibility

- ✓ NEOLT S.p.A. cannot be held responsible for problems, defects that should take place due to non-compliance with the power supply values supplied.

MACHINE PERFORMANCES

3.3

- Max cutting thickness of material/panels FOAM **30 mm (1,2")**
- Max cutting thickness. media /SEMI-FOAM PVC panels **3 mm (0,12")**

<i>Material</i>	foam Trim plus
	<i>Max. cutting thickness</i> 30 mm
<i>Corex</i>	X
<i>Cork</i>	X
<i>Foamboard</i>	X
<i>Hardboard</i>	X
<i>Mountboard</i>	X
<i>Polystyrene</i>	X
<i>Gatofoam</i>	X
<i>Foamex</i>	X
<i>Forex[®]</i>	(MAX 3 mm.)

QUALIFICATIONS OF THE OPERATOR

4.1

The transportation, installation and connecting operations of the machine must be carried out by qualified personnel only, transporters and electricians.

TRANSPORTATION

4.2

TRANSPORTATION CONDITIONS

4.2.1

The trimmer is shipped with a packaging of carton 1 to protect the ends of the trimmer, and everything is placed inside a carton box 2. **(Fig. 4.1) Transportation conditions.**

The size of the packaging and its total weight (packaging and trimmer) are as follows

	125	160
Dimensions (cm)	210LX68PX37H	210LX68PX37H
Weight (gross -kg)	36	41

Use only proper lifting means and accessories that comply with the laws in force.

Please take the necessary precautions to avoid any crashes and overturning. Protect the machine from external atmospheric agents.

Check the conditions of the machine by visually inspecting it, after having removed it from the shipping box. Any defects on the visible parts of the machine indicate crashes during transportation, which could also affect the normal functioning of the machine.

16* Especially assess the conditions of these parts:
The carriage Plexiglas shield.

Check the clamping of the screws and the bolts of the blade carrier handle and the carriage itself.

- Open the packaging box **2** that assembles everything (**Fig. 4.1**).
- Remove the carton cases **1** (**Fig. 4.1**).

☐ This operation must be carried out by minimum two people.

- Screw on the cross-bar **A** first to one shoulder **B**, then to the other with the supplied screws and nuts **C** to assemble the support (**Fig. 4.2**).

☐ **Attention** the shoulder has holes of different diameter, the side with the bigger holes must face outwards.

- Position the cutter on the assembled frame and fix it to this with the screws **D** in equipment (2 for side) (**Fig. 4.3**).

☐ Tighten the screws to avoid turnovers.

- The trimmer is ready to be used. No other operations are required except for the assembly of the blade (*CHAPTER BLADE ASSEMBLY 4.3.1*).

□ Wear protection gloves while assembling the blades because they are very sharp.

- Completely close the sheet holder (**Fig. 4.4**).
- Loosen knob **A** (**Fig. 4.5**).
- Completely lower blade guide (**Fig. 4.5**)-(**Fig. 4.6**), by turning knob **B**.
- Remove the three screws that fix the cover of the blade holder carriage (**Fig. 4.7**).
- Insert the blade by sliding it first into the blade guide and then on the pin on the carriage (**Fig. 4.8**).
- Lift key and push the blade to slide it into the slot on the blade holder (**Fig. 4.9**).
- Use a screwdriver to bring the return spring above the profile of the blade (**Fig. 4.10**).
- Put the cover of the blade holder carriage back into position (**Fig. 4.11**).
- Make sure the blade Plexiglas guarding is tightly screwed onto the blade guide profile. (**Fig. 4.12**).

- 24* Horizontal support table with a capacity higher than the mass of the machine.
- 25* Adequate space to carry out the ordinary maintenance and technical operations.

CHARACTERISTICS OF THE AREA THE MACHINE IS PLACED IN

4.5.1

Space requirements

For the normal use of the machine and the loading and unloading operations, it is important to have an area directly proportional to the size of the panels to cut.

Protection from atmospheric agents

The machine must be placed in an area that is covered and protected from direct contact with atmospheric agents

Floor requirements

Prepare the horizontal support base of the machine keeping in mind the mass of the machine itself. Also take into account all extra accessories

□ Optimal stability and using conditions can be obtained with a maximum planarity error of $\pm \dots$ mm/m.

Illumination

A good illumination is necessary to safely use and carry out maintenance operations (indicatively 200 - 600 lux).

Atmospheric characteristics of the area

1* Temperature: from 18°C to 35°C.

2* Humidity: from 30 % to 80 %.

TESTING

4.5.2

Before using the machine continuously check the general functioning of the machine by doing some sample cuttings.

□ In case of malfunctioning, find the reason for this and/or call technical NEOLT assistance.

QUALIFICATIONS OF THE OPERATOR

5.1

The machine must be used by qualified personnel only.

PLACE OF WORK

5.1.1

Position of the worker: During the starting and cutting phase the operator is in front of the machine with the blade carrier in the centre. During maintenance operations the worker must assume the position required by the specific operation to be carried out.

CUTTING PROCEDURE

5.2

Follow this procedure to start the cutting process:

□ It is highly recommended, before carrying out any cutting operations to make sure the height of the blade guide is suitable for the thickness of the media to cut. This will prevent low or high cuts and the carriage from blocking itself against the media to trim.

□ During cutting operations pay close attention to the position of hands.

❖ Cut hard media (ex. FOAM PVC) in the following way:

- Bring the carriage against the right shoulder of the machine.
- Open the sheet holder by rotating the sheet holder handle downward (**Fig. 5.7**).
- Position the panel **A** on the left (**Fig. 5.8**). Use the reference brackets (**Fig. 5.9**) to choose the desired cutting measurements.
- Remove the front knob of the carriage **B**, and adjust the blade guide according to the thickness of the media to cut by using the left knob **C**. After adjusting the blade guide lock it into position by using the front knob **B** (**Fig. 5.10**).
- Adjust the cutting blade by using the knob on the right **E**, until the blade slides into position as shown in the illustration (**Fig. 5.11**), at about **0.5 mm** from feeding table.

- Carry out the first cutting phase, the panel incision, by pulling the carriage down from above (**Fig. 5.12**). Then, ultimate the definitive cutting phase, by pushing the carriage from the bottom upwards (**Fig. 5.13**).
- Remove both trimmed parts from the work table.

This trimmer was designed to be used to cut only "FOAM" and FOAM PVC (see media table paragraph 3.3.1).

□ We recommend not trying to cut materials different from those which the machine has been designed for. They could seriously damage the machine.

ORDINARY MAINTENANCE

6.1

□ Untimely movements during maintenance. Be very careful.

Ordinary maintenance includes all those periodical and preventive operations that allow the machine to be used safely.

QUALIFICATIONS OF THE OPERATOR

6.1.1

Ordinary maintenance of the machine must be carried out by qualified personnel only.

PROCEDURES

6.1.2

Please carry out the periodic operations listed in the chart below.

Operation to be carried out	Frequency of execution	Procedure	Precautions
General dusting.	At user's discretion.	<ul style="list-style-type: none">• Clean the entire machine with a damp cloth.	Do not use aggressive products.
Cleaning the scrap material.	If there is a lot of scrap material.	<ul style="list-style-type: none">• Eliminate the scrap material with an aspirator and/or compressed air.	Wear a pair of working gloves.
Substitution of the blade.	When the cur is not even.	<ul style="list-style-type: none">• See <i>Assembly 4.3.1</i> procedure.	Wear a pair of working gloves.

EXTRAORDINARY MAINTENANCE

6.2

Directly contact NEOLT S.p.A for any extraordinary maintenance operation not contained in this manual.

QUALIFICATIONS OF THE OPERATOR

7.1

The machine can be demolished by qualified personnel only.

DEACTIVATION OF THE MACHINE

7.2

Once the machine has reached the end of its technical and operating life, it must be deactivated. The machine must be deactivated and put in the condition of not being used for the purposes which it had originally been designed for. However, it must allow the reutilization of the raw materials which it was built with.

-
-
- ✓ NEOLT S.p.A. cannot be held responsible for damages to people or animals due to the reutilization of single parts of the machine for purposes or in situations different from those which it has been designed for.
-
-

PROCEDURES

7.2.1

- 26* Disconnect the electrical power of the optional LASER tracer, if available
- 27* In case the machine has to be moved, refer to *4.2 Transportation*.

-
-
- The machine is made of non-biodegradable materials. It must therefore be brought to an authorised centre to be demolished.
-
-

□ LASER ray kit assembly.

Remove the packaging of the optional kit and make sure the following parts are present:

POS	DESCRIZIONE	125	160
36	Plain washer ø4 UNI 6592	4	4
290	Screw TBEI M.4x10 DIN 7380	6	6
718	Switch	1	1
721	Laser	1	1
932	Black cable holder	1	1
1143	Laser holder bracket	1	1
1144	Laser limiting plate	1	1
1145	Covering carter	1	1
1146	Wall wired feeder	1	1
1147	Kit laser ray foam plus	1	1

- Open the box which contains the kit for the optional LASER ray assembly.
- Secure the bracket of the laser holder sender to the left shoulder (pos.1143) **(Fig. A 2)**.
- Fix the laser sender to the laser holder bracket (pos. 721) by securing it with the 2 nuts in equipment **(Fig. A 3)**.
- The sender must be moved away from the shoulder of about 3mm **(Fig. A 3)**

- Fix the limiting plate of the laser beam outside the shoulder (pos. 1144) **(Fig. A 4)**.
- Insert the feeding cable (pos.1146) in the covering carter and block it with its proper cable stop (pos. 932) **(Fig. A 5)**.
- Insert the ON/OFF push button of the laser in the slot placed on the covering carter (pos.718).
- Connect the little connector of the feeling cable and of the laser sender to the switch **(Fig. A 5)**.
- Connect also the remaining connectors between themselves **(Fig. A 5)**.

- Connect the wall feeder to a plug

- Make sure the laser beam light is focused along the cutting line, placed on the working surface. In case, please adjust the laser holder bracket until when it is perfectly aligned with the cutting line (**Fig. A 6**).
- Adjust the limiting plate of the beam placed in front of the sender in order to avoid the beam could go up (**Fig. A 7**).
- In the end, secure the covering carter to the shoulder (pos.1145) (**Fig. A 8**).

□ Check the electric line is able to carry the absorption of the machine.

□ Electric hazards. Before making any connections to the mains make sure the system has been grounded

- 1* Select a mains to supply the machine.
2* Connect the powder cord to a plug to easily accessible and the near
the machine.
3* Switch on the voltage powering the machine.

USE OF THE LASER RAY FOR CUTTING**A.1.2**

The laser ray is mainly used when you need to cut precise panels with the cutting lines already marked on it.

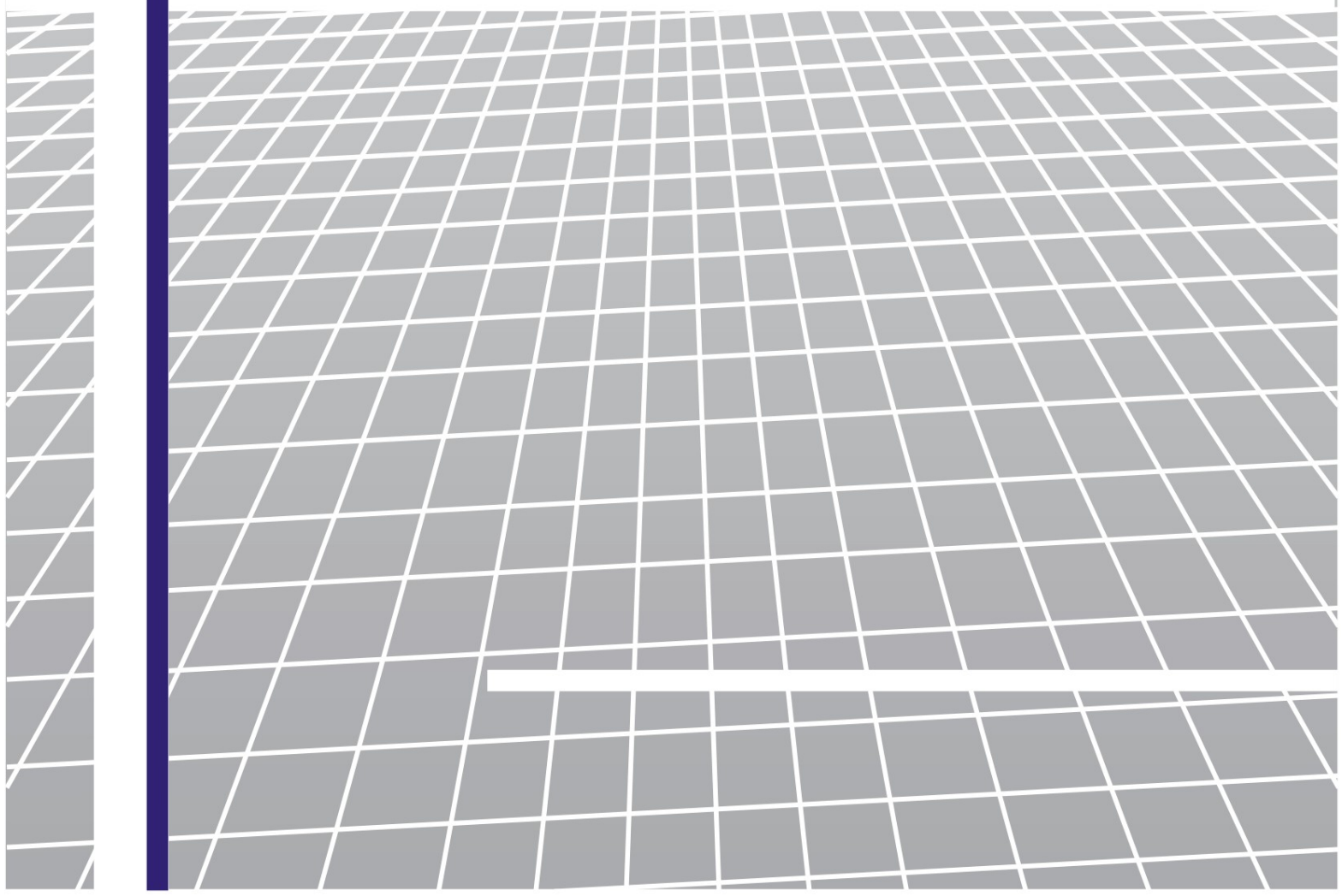
Please act as follows to use the laser ray:

- Switch on the laser ray (**Fig. A 9**).
- Carry out the cut by following the description present in chapter *CUTTING PROCEDURES* 5.2 by aligning the profile to be cut with the LASER beam.

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**FOAM TRIM
PLUS**

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