



Operating Manual

HOT WIRE CUTTING TOOL

PFT CUTMASTER and PFT MINICUT

Overview - Operation - Spare parts lists



PFT CUTMASTER 1100/310



PFT CUTMASTER 1300/310



PFT CUTMASTER with cutter for rafters



PFT cutter for rafters for CUTMASTER



PFT MINICUT

Article number of the operating manual: 00 43 36 09

Article number 00 25 66 38: PFT CUTMASTER 1100/310

Article number 00 29 30 72: PFT CUTMASTER 1300/310

Article number 00 41 95 49: PFT CUTMASTER 1100/310 including cutter for rafters

Article number 00 41 89 89: PFT CUTMASTER 1100/310 with device for cutters for rafters



Read the operating manual prior to starting any work!

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1 EC Declaration of Conformity

Company Knauf PFT GmbH & Co. KG

:

Einersheimer Straße 53

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declares under our sole responsibility that the product:

Machine type: PFT CUTMASTER
Tool type: Hot wire cutting tool
Serial number:

is in conformity with the following CE directives:

- Machine directive **(2006/42/EC)**,
- Electromagnetic Compatibility Directive **(2004/108/EC)**.

This declaration relates exclusively to the machinery in the state, in which it was placed in the market, and excludes components which are added and/or operations carried out subsequently by the final user. The declaration ceases to be valid, if the product is modified without authorisation.

Person authorised to compile the relevant technical documentation:

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Iphofen,

Dr. York Falkenberg

Managing director

Place, Date of issue

Name and signature

Details about the signatory

2 General information

2.1 Information regarding the operating manual

This operating manual, along with safety instructions, gives important information on handling the tool. A prerequisite for safe working is the observance of all stated safety guidelines and instructions.

Furthermore, the local accident prevention guidelines and general safety instructions for the application area of the device are to be adhered to.

Read the operating manual thoroughly before starting any work! It is a part of the product and has to be kept near the tool and easily accessible to the staff at all times.

If the tool is given to third parties, also include the operating manual.

The figures in this manual are for presentation purposes of facts not necessarily to scale and may slightly differ from the actual model of the device.

2.2 Keeping the manual for future reference

The operating manual has to be available during the whole service life of the product.



2.3 Symbol explanation

Warning signs

Warning signs can be identified in the operating manual by symbols. The signs are implemented by using signal words, which indicate the intensity of the danger.

Follow the signs unconditionally and work with care to avoid accidents, injuries or material damage.



DANGER!

... indicates an immediate dangerous situation, which leads to severe injuries or death if not averted.



WARNING!

... indicates a possibly dangerous situation, which may lead to severe injuries or death if not averted.



ATTENTION!

... indicates a possibly dangerous situation, which may lead to minor injuries if not averted.



ATTENTION!

... indicates a possibly dangerous situation, which may lead to material damage if not averted.

Tips and suggestions



NOTE!

... indicates useful tips and suggestions as well as information for efficient and problem-free operation.

Special safety instructions

The following symbols are used along with the safety instructions, in order to bring special risks to attention:



DANGER!

Danger of death from electric current!

... signifies life-threatening situations due to electric current. Non-adherence to safety instructions may cause severe injuries or even death. The work to be carried out must be carried out only by an electrician.

2.4 Restriction of liability

All specifications and instructions in this manual have been compiled considering the applicable standards and regulations, the status of technology as well as our long-term expertise and experiences.

The manufacturer is not responsible for any damage in the following cases:

- Non-compliance with the manual
- Improper use
- Appointing untrained staff
- Modifying on your own
- Technical modifications
- Use of non-standard spare parts

The actual scope of delivery may vary from the descriptions and illustrations given here in case of special deliveries, demand of additional order options or due to latest technical changes.

Otherwise, the obligations agreed upon in the delivery contract, the general terms and conditions as well as the delivery conditions of the manufacturer and the legal regulations applicable at the time of signing the contract, are applicable.



2.5 Copyright

Treat the operating manual as confidential. It is meant exclusively for the person operating the tool. Giving the operating manual to a third party with prior written consent from the manufacturer is strictly prohibited.



NOTE!

The textual data, texts, drawings, images and other illustrations are copyright protected and are subject to the commercial copyrights. Every misuse can be penalised.

Duplication of any kind or in any manner, even in parts as well as using or distributing the content is strictly prohibited without a written declaration from the manufacturer. Violations may lead to damage compensation. Other claims are reserved.

2.6 Spare parts



WARNING!

Danger of injury due to wrong spare parts!

Wrong or defective spare parts can cause damage, malfunctioning or total breakdown as well as hamper the safety.

Therefore:

- Use only original spare parts provided by the manufacturer.

Buy spare parts from an authorized dealer.

2.7 Customer service

Our customer hotline is available for technical help and information.

Information about the responsible contact person can be obtained at all times via telephone, fax, email or via Internet, also see manufacturer's address on page 2.

Besides, our employees are always interested in new information and experiences, resulting from use and which can be useful for improving our products.

3 Safety

This section gives an overview of all important safety aspects for optimum protection of personnel as well as for safe and efficient operation.

Non-compliance with the working instructions and safety instructions in this manual can cause considerable damage.

3.1 Responsibility of the operator

The tool is used in the commercial field. The operator of the tool is therefore liable to follow the legal duties for occupational safety.

Apart from the occupational safety instructions in this operating manual, the safety, accident prevention and environment protection regulations must be adhered to. Here, the following is especially applicable:

- The operator must be aware of the applicable occupational safety provisions and determine the risks in a danger assessment, which are present due to special working conditions at the operational site of the tool. He must implement these in form of operating instructions for operating the tool.
- During the entire time of use, the operator must check if the operating instructions created by him comply with the current regulations and adjust if required.
- The operator must regulate and fix responsibilities for installation, operation, maintenance and cleaning.
- The operator must ensure that all employees handling the tool have read and understood the operating manual.

In addition to that, he must train the personnel at regular intervals and notify about the risks.

Furthermore, the operator is responsible to keep the tool in technically flawless condition at all times; the following is applicable for it:

- The operator must ensure adherence to the maintenance intervals given in this operating manual.
- The operator must get all safety equipment regularly checked for proper functioning and completeness.
- The operator must provide the necessary protection gear to the personnel.

3.2 Operating personnel

3.2.1 Requirements

**WARNING!****Danger of injury if not properly qualified!**

Improper use can lead to severe injuries or considerable material damage.

- Only let the people mentioned in the respective sections of this manual carry out the special activities.
- When in doubt, consult experts.

The following qualifications are given for various work fields in the operating manual:

■ Trained person

has been taught in training by the operator to carry out the work given by him and made aware of the possible risks when improperly handled.

■ Skilled personnel

carry out the work allotted to them due to their technical qualification, skills and experience as well as knowledge of the relevant regulations and to be aware of the possible risks on their own.

■ Electricians

carry out the work on electrical systems due to their technical qualification, skills and experience as well as knowledge of the relevant standards and regulations and to be aware of the possible risks on their own.

An electrician is specially for the work field, in which he works, is qualified and knows the relevant standards and provisions.

Only those people must be allowed as personnel, who can be expected to do their work properly. Persons, who are under the influence of drugs, alcohol or any medication are not permitted.

Select people who comply with the directives of age and profession applicable at the operational site.

3.2.2 Unauthorised personnel

**WARNING! Danger for unauthorised personnel!**

Unauthorised persons not fulfilling the requirements given here, are not aware of the risks in the working area.

- Keep unauthorised persons away from the working area.
- When in doubt, speak to the persons and escort them out of the working area.
- Discontinue working until the unauthorised persons leave the work area.
- Keep children away from the tool.

3.2.3 Testing

A test badge will be attached to the tool as proof of this test. The test report has to be shown on demand.

Annual test

**NOTE!**

The tool must undergo at least one test a year by an electrician as per VDE 701 and VDE 702 as well as VBG 4 (for test recommendations see page 51).



4 Using PFT CUTMASTER

4.1 Intended use of PFT CUTMASTERS

The tool is conceptualised and designed exclusively for the purpose of use specified here.



NOTE!

The PFT CUTMASTER is exclusively for accurate cutting of heat insulation panels made of foam polystyrene using a hot wire.



WARNING!

Danger due to improper use!

Any case of use beyond the specified purpose of use and/ or any other sort of use of the tool can lead to dangerous situations.

Therefore:

- Use the tool only for the purpose specified.
- Always adhere to the usage directives of the material manufacturer.
- Strictly follow all instructions in this operating manual.

Claims of any kind due to damage caused by improper use will not be entertained.

The operator of the tool is alone responsible for any damage arising from improper use.

4.2 Intended use of PFT MINICUT

The tool is conceptualised and designed exclusively for the purpose of use specified here.



NOTE!

PFT MINICUT is designed only for cutting polystyrene-hard foam, like front insulation panels, roof insulation panels or basement insulation panels.

The temperature of the cutting blades is designed for this material.

4.3 Danger due to improper use

**WARNING!**

Any case of use beyond the specified purpose of use and/ or any other sort of use of PFT CUTMASTER or PFT MINICUT can lead to dangerous situations.

Therefore:

- Use the tool only for the purpose specified.
- Always adhere to the usage directives of the material manufacturer.
- Strictly follow all instructions in this operating manual.

While working in a room, vapours released while cutting must be absorbed using a suction device.

PVC-coated materials are not allowed due to the harmful vapours released from cutting it.

Do not touch the cutting blade or the cutting wire as there is a danger of burning. It can reach temperatures of up to 500°C after the switch lever or the press button has been actuated.

Do not lean MINICUT on any object, unless the cutting blade has completely cooled down.

Claims of any kind due to damage caused by improper use will not be entertained.

The operator of the tool is alone responsible for any damage arising from improper use.



5 Advantages of PFT CUTMASTER

- The PFT CUTMASTER folds flat and is therefore lightweight and can be transported and stored in a space-saving way.
- Folding feet enable you to work at two working heights (only for 1100/310). The lowered working positions can be helpful e.g. in confined space conditions in the topmost lift on a scaffold.
- The combo base plate on the rear serves as admission for the integrated support foot or for attachment of a scaffold.
- The stainless steel protective bow is welded on both sides onto the swivel units. The clamp below serves to protect the spiral cable. The clamp above can be used as eyelet for transport by crane (only for 1100/310).
- The fixed mounted transformer facilitates a high cutting speed and an extremely short heating-up time. The transformer is doubly protected. A thermal fuse is integrated against overheating and a replaceable micro fuse against short-circuit currents.
- A push button, integrated in the cutting bow, reduces the danger of injury from a hot wire and extends the service life of the hot wire.
- The welded cutting bow prevents the product from getting tilted during process of cutting.
- By the depth stops which are positioned at the hangers, you can fix the cutting depth.
- All straight edges are extremely scrub resistant and recessed at the ground plate and the support brackets.
- For angular cuts, a patented “memory device” guarantees rational cutting of e.g. rake angle cuts.
- Thanks to a second support angle, a second slanted position is possible and furthermore, a fall down of the cut parts is avoided.
- Also in folded position, hot wire cutting tool stands on the individual feet – no scratches.
- Thanks to its sturdy lightweight design, the PFT CUTMASTER only weighs 17 kg (1100/310) or 16.5 kg (1300/310).

6 Special risks

The residual risks are mentioned in the following section, which are obtained from the danger analysis.

Follow the safety instructions specified here and the warning instructions in the other chapters of the manual, in order to reduce the health risks and to avoid dangerous situations.

Electric current



DANGER!

Danger of death from electric current!

There is danger of immediate death if live parts are touched. Damage to insulation or individual parts can be fatal.

Therefore:

- Switch off the power supply immediately if the insulation is damaged and arrange for repairs.
- Work on the electrical system must be carried out by qualified electricians only.
- Switch off the electrical system to work on it and ensure that the voltage has been cut off.
- Switch off the power supply before any maintenance, cleaning or repair work and secure from restarting.
- Do not shunt or decommission any fuses or safety equipment. Adhere to the correct ampere count when replacing fuses.
- Keep live parts moisture-free. It can lead to short-circuit.

Dirt and objects lying around



ATTENTION!

Danger of stumbling due to dirt and objects lying around!

Dirt and objects lying around can be the cause to slip or stumble thus leading to severe injuries.

Therefore:

- Always keep the work area clean.
- Get rid of all things that are no longer required.
- Mark stumbling zones with yellow-black stripes.



6.1 Safety equipment



WARNING!

Danger of death due to non-functioning safety equipment!

Safety equipment ensure highest level of safety in operation. Even if work processes become a little more complicated due to safety equipment, they must never be decommissioned. The safety is guaranteed only with intact safety equipment.

Therefore:

- Before starting work, check if the safety equipment is functioning properly and has been correctly installed.
- Use safety equipment at all times.

6.2 Labelling

The following symbols and warning signs are on the PFT CUTMASTER. They refer to environment in which they are installed.



WARNING!

Danger of injury due to illegible symbols!

With time, the adhesive and the signs can become dirty and fade out in some other way.

Therefore:

- Keep all safety, warning and operating signs in easily legible condition.
- Immediately renew damaged signs or weakened adhesives.

Special risks

**Caution - Hot wire!**

Installed on the base plate.

**Use eye gear/protective goggles:**

Protect the eyes for the improbable case of crack in the main cutting wire.

Installed on the base plate.

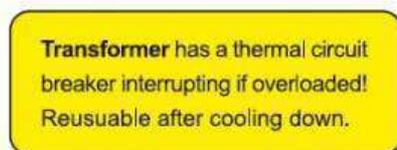


Use PFT CUTMASTER only in well-ventilated rooms. Harmful vapours can be released from heated polystyrene.

Installed on the base plate.

**Caution! Hot wire - fire hazard:**

Installed on the base plate.



Note to operate the transformer on the rear of the base plate:

Transformer has a thermal circuit breaker - disconnects if overheated!

Reusable after it cools down.



7 Personal protective gear

Wear protective gear is necessary while working in order to minimise health risks.

- Wear the appropriate gear for the work to be done at all times.
- Follow all signs in the working area regarding personal protective gear.

Wear in principle

In principle, for all kinds of work, wear:



Protective clothing

is tightly fitting clothing with low tear strength, with narrow sleeves and without parts sticking out. It mainly helps to protect from getting stuck into moving machine parts.

Do not wear any rings, chains and other jewellery.



Safety shoes

to protect from heavy parts that may fall and from slippery floors.



Protective goggles

to protective the eyes from parts that may fly around and to protect from burns that may be caused due to the hot cutting wire.



Simple breathing mask

to protect from harmful dust.



Helmet

to protect from parts and materials that may fall or fly onto the person.



Protective gloves

to protect the hands from friction, abrasion, cuts or severe injuries as well as from coming into direct contact with hot surfaces.

Wear for special work

While carrying out special work, special equipment is required. It is separately mentioned in the individual chapters of this manual. This special protective equipment is explained below:

Face guard

to protect the eyes and the entire face from flames, sparks or heat as well as from particles or exhaust gases.

Special risks

The residual risks are mentioned in the following section, which are obtained from the danger analysis.

Follow the safety instructions specified here and the warning instructions in the other chapters of the manual, in order to reduce the health risks and to avoid dangerous situations.

Noise**WARNING!**
Hearing impairment due to noise!

The noise level generated in the work area can cause serious hearing impairment.

- Always wear ear protection while working.
- Check only in the danger zone as long as necessary.

Hazardous vapours**WARNING!**
Health hazard due to vapours!

In the long term, inhaled vapours can lead to lung damage or have other adverse health effects.

- Wear a simple breathing mask for all work in the danger zone.



8 Work for rectifying faults

8.1 Reaction in the event of faults

Reaction in the event of faults

The following strictly applies:

1. In the event of faults presenting immediate danger to persons or property, activate the emergency OFF function immediately.
2. Determine cause for fault.
3. If the rectification of faults requires works in the danger zone, switch off the tool and secure against restarting.
4. Inform the manager on site immediately about the fault.
5. Depending on the type of fault commission authorised skilled personnel or rectify the fault yourself.



NOTE!

The following fault table gives information on who is authorised to rectify the fault.

8.2 Faults

The following chapter describes possible causes for faults and the activities carried out for their rectification.

In case faults occur frequently, shorten the maintenance intervals in accordance with the actual load.

In the event of faults that cannot be rectified by means of the following notes, kindly contact the dealer.

8.3 Safety

Personnel

- The work for rectification of faults described here can be carried out by the operator, unless marked otherwise.
- Some works must be carried out only by specially trained skilled personnel or exclusively by the manufacturer. Information on this can be found in the description of the individual faults.
- Work on the electrical system must, in principle, be carried out only by electricians.

Personal protective gear

The following protective equipment has to be worn for all maintenance work:

- Protective goggles, protective gloves, safety shoes, ear protection.

Work for rectifying faults

8.4 Table of faults

Fault	Possible cause	Solution	Rectification by
current: Cutting wire does not heat up	Check the mains plug connection.	Plug in the mains plug properly.	Operator
	Check the micro fuse.	Replace the micro fuse.	Operator
	RCCB was triggered.	Reset RCCB	Service engineer
	Check the cutting wire for breakage and for contact.	If required Replace the cutting wire.	Service engineer
	Thermal overheating.	Wait till the transformer has cooled down.	Operator
	Check the connecting cable from the transformer to the cutting bow.	If required Change the connection cable.	Service engineer
Cutting bow is difficult to move	Ball slide rails are soiled.	Clean the ball slide rails. Oil it slightly.	Service engineer
Cutting wire breaks frequently	Cutting pressure is too high.	Apply less pressure while cutting.	Operator
	Wire is tensioned too much.	Reduce the pre-tension of the cutting wire.	Operator
Transformer	Thermal overheating.	Wait till the transformer has cooled down.	Operator
	Micro fuse defective.	Replace the micro fuse.	Operator



9 Using the tool under special conditions

**NOTE!**

The tool is designed as a mobile working tool, whose application must only be within the legal fundamentals, guidelines and directives or the specified protection class.

This may result in certain limitations while using the tool.

Cold:

The cutting wire reaches its optimum operating temperature with great difficulty.

Rain:

Water on the cutting wire hinders the wire from reaching an optimum operating temperature.

Wind:

Cold and wind cool down the cutting wire, thus preventing the wire from reaching an optimum temperature under certain circumstances.

**DANGER!
Acute fire hazard!**

Avoid uncontrolled contacts of the cutting wire with all inflammable objects.

If this happens, the tool may only be further used after appropriate approval from an authorized and qualified expert.

Get the tool checked from the manufacturer.

10 Main switch



Fig. 1: Main switch

The cutting wire heats up within a few seconds by pressing the red On/Off button.

On releasing the On/Off button, the power supply is immediately cut off and thus an emergency-stop is triggered.



WARNING!

Danger of death due to undesired restart!

Undesired restart can lead to severe injuries or even death!

Therefore:

- Before restarting, ensure that the cause of the emergency-stop has been eliminated and all safety equipment is installed and functioning properly.

11 Reaction in case of danger and in case of accidents

Preventive measures

- Always be prepared for accidents or fire!
- Keep First Aid equipment (first-aid box, bandages etc.) and fire extinguisher handy.
- Familiarize personnel with accident signalling equipment, first-aid and rescue equipment.
- Keep access routes free for emergency vehicles.

In case of falls: Act appropriately

- Activate emergency-stop immediately.
- Take first-aid measures.
- Recover persons from the danger zone.
- Inform responsible person at the operational site.
- Inform the doctor and/ or the fire brigade.
- Make access routes free for emergency vehicles.



12 Technical data

12.1 Technical data PFT CUTMASTER 1100/310

Article number PFT CUTMASTER 1100/310	00 25 66 38	
Particular	Value	Unit
Weight	approx. 17	kg
Cutting depth	310	mm
Cutting height	1110	mm
Scale, left	up to 980	mm
Scale, right	up to 420	mm

12.2 Connection values

Particular	Value	Unit
Power connection	230	V
Power	150	VA
Secondary voltage	30	V
Protection class	44	IP
Thermal circuit breaker	110°	C

12.3 Technical data PFT MINICUT

Article number PFT MINICUT	00 02 06 57	
Particular	Value	Unit
Power connection	230	V
Rated input	110	W
Cutting temperature	max. 500°	C
Functioning time	12 s On / 48 s Off	

Name plate

12.4 Technical data PFT CUTMASTER 1300/310

Article number PFT CUTMASTER 1300/310	00 29 30 72	
Particular	Value	Unit
Weight	approx. 16.5	kg
Rear support foot	approx. 1.0	kg
Cutting depth	300	mm
Cutting height	1350	mm
Scale, left	up to 1000	mm
Scale, right	up to 440	mm

12.5 Connection values

Particular	Value	Unit
Power connection	230	V
Power	200	VA
Secondary voltage	36	V
Protection class	44	IP
Thermal circuit breaker	110°	C

13 Name plate



Fig. 2: Name plate

The following details can be found on the name plate:

- Manufacturer
- Article number of the tool
- Type
- Year of manufacture
- Machine number



14 Overview of CUTMASTER 1100/310

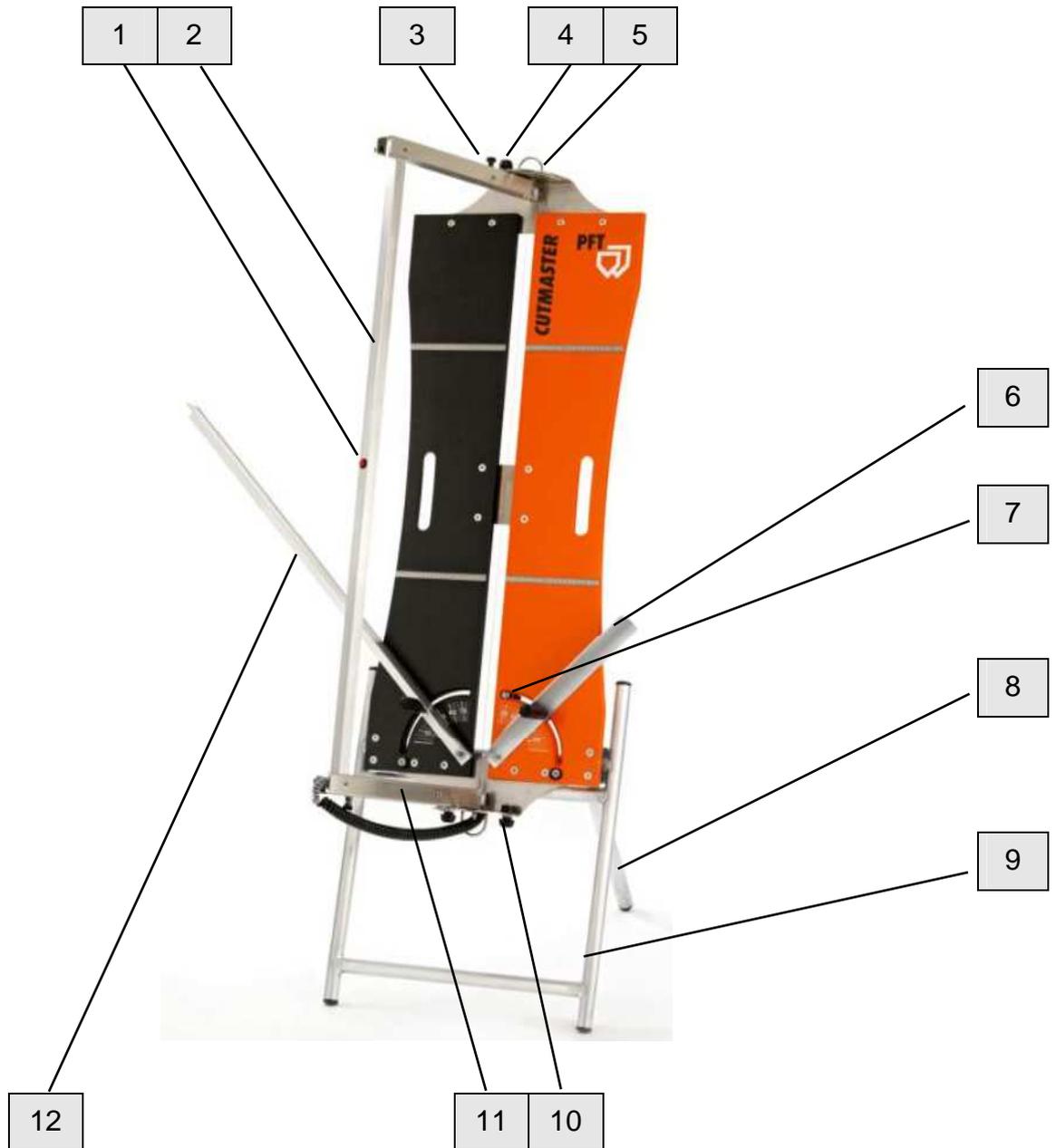


Fig. 3: Overview of CUTMASTER 1100/310

1.	On/Off press button	2.	Cutting bow
3.	Storage screw for depth stop	4.	Storage screw for swivel unit
5.	Crane eyelet	6.	Short right support angle
7.	Storage screw for support angle	8.	Foot
9.	Swivelling main foot	10.	Storage screw for swivel unit
11.	Guide rail and swivel unit	12.	Long left support angle

15 Overview of CUTMASTER 1300/310

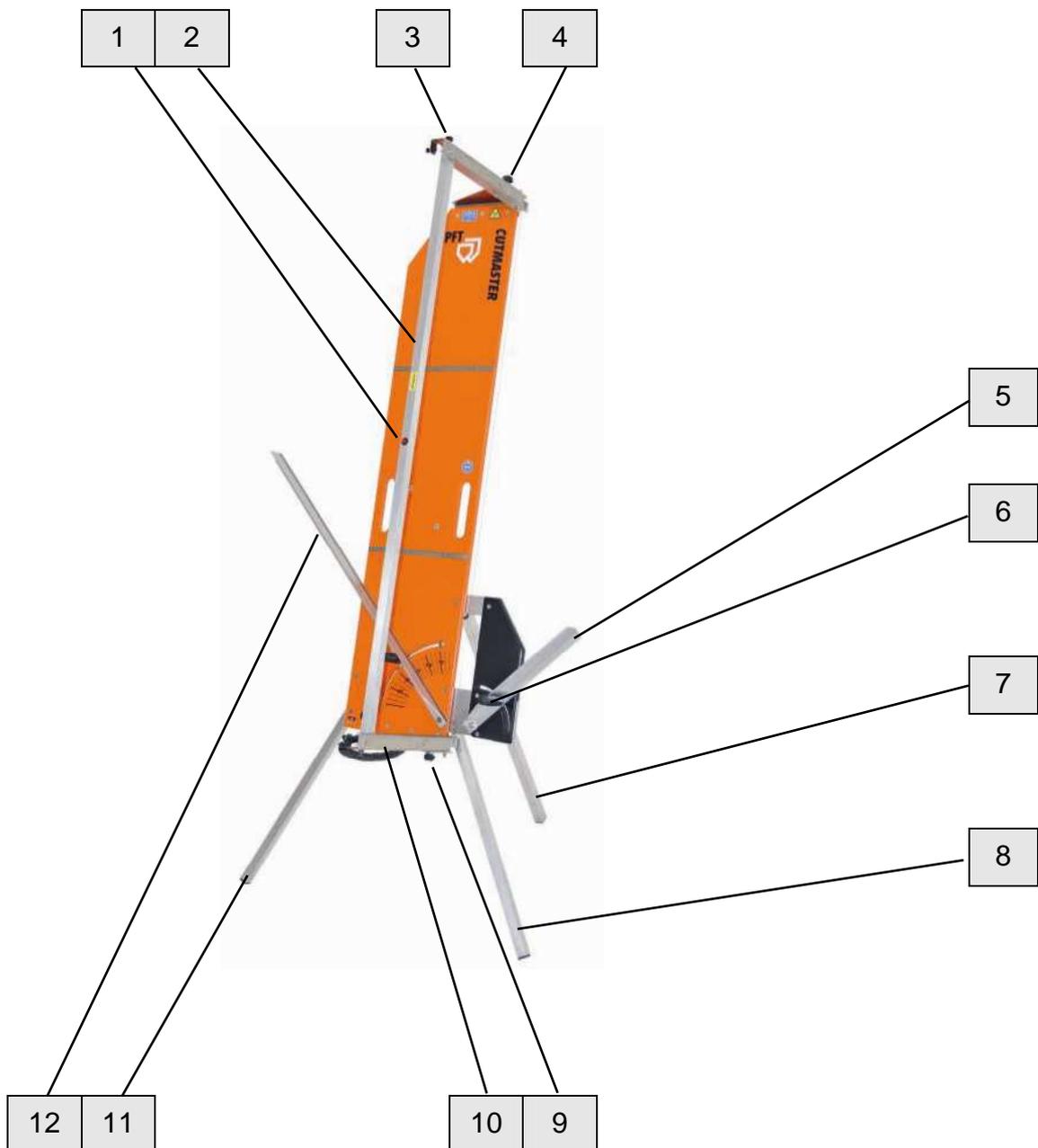


Fig. 4: Overview of CUTMASTER 1300/310

1.	On/Off press button	2.	Cutting bow
3.	Storage screw for depth stop	4.	Storage screw for swivel unit
5.	Short right support angle	6.	Cylinder handle for locking
7.	Rear foot	8.	Right foot
9.	Storage screw for swivel unit	10.	Guide rail and swivel unit
11.	Left foot	12.	Long left support angle

16 Examples for using CUTMASTER



Fig. 5: Overlap cuts

16.1 Overlap cuts

Using the storage screw for the depth stop on the cutting bow, cuts for wall projections or overlaps can be easily achieved.



Fig. 6: Cuts

16.2 Cuts

Cuts for cable ducts or drainage pipes can be easily made using the storage screw for the depth stop.



Fig. 7: Mitre cuts

16.3 Mitre cuts

The cutting bow can be adjusted variably to any position. For easy handling, the cutting bow locks at 45° and at 90°.



NOTE!

Ensure that the knurled screws are loosened above and below on swivelling the main bow, otherwise the ball slide rails will unnecessarily be burdened.



Fig. 8: Mitre cuts

16.4 Angular cuts

The two aluminium support brackets can be continuously adjusted and locked between 0° and 90°.

The support bracket on the right side ensures that the remaining part of the cut does not fall down.

The angular adjustment of the aluminium cutting bow can be fixed by an attachment screw.



Fig. 9: Rafter cuts

16.5 Rafter cuts

Exact rafter cuts can be achieved exactly as desired using the PFT CUTMASTER.



17 PFT MINICUT 140mm in the case



Fig. 10: MINICUT 140mm in the case

PFT MINICUT 140mm in the case

Article number 00 02 06 57:

Basic set:

- MINICUT 140mm
- Hook
- Cleaning brush
- Plastic case

17.1 Advantages of MINICUT



Fig. 11: MINICUT

PFT MINICUT

For panel thickness up to 140 or 230 mm.

- ready to cut in 10 seconds
- no dust
- insulated for your safety
- no static charging
- bezel made of stainless steel can be changed easily

17.2 PFT MINICUT



Fig. 12: MINICUT 140mm

PFT MINICUT 140mm

Article number 00 02 02 90:



Fig. 13: Bezel

Bezel (140 mm) for PFT MINICUT 140

Article number 00 02 04 10:

Bezel (230 mm) for MINICUT 230 round

Article number 00 23 80 46:

Qty	Article no.	Article description
1	00 06 19 06	Fixing screw MINICUT cutting tool Steel knurled screw M 3.5

18 PFT MINICUT 230mm in the case



Fig. 14: MINICUT 230mm in the case

PFT MINICUT 230mm in the case

Article number 00 23 12 84:

Basic set:

- MINICUT 230mm
- DSS-250 cutting tool for panel thickness up to 230mm
- DSS-250 cutting tool for panel thickness up to 230mm
- Brass brush
- Screwdriver
- Plastic case



Fig. 15: Section adapter

MINICUT Section adapter

Article number 00 28 55 29:

MINICUT Bezel strap 1m

Article number 00 28 55 27:

Individual shapes and sizes of cut-outs from plates can be obtained using the strap.

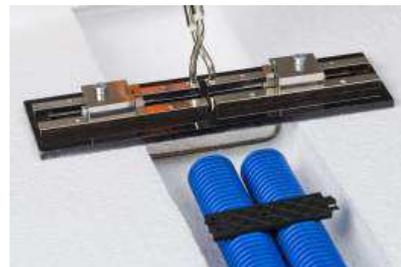


Fig. 16: Power controller

PFT MINICUT 230 has an electronic power controller for optimum adapting to the cutting temperature.



Fig. 17: Flat bezel

Bezel MINICUT, flat (230mm)

Article number 00 28 45 20:



19 Transport and packaging

19.1 Safety instructions for transport

Improper transport



ATTENTION!

Damage from improper transport!

Improper transport may cause substantial property damage.

- When unloading the packages on delivery as well as transport within the company pay attention and observe the symbols and instruction on the package.
- Use only the specified anchorage points.
- Remove packaging only shortly before the assembly.

Suspended loads



WARNING!

Danger to life from suspended loads!

When lifting heavy loads there is danger to life from falling parts or uncontrolled swinging parts.

- Never step under suspended loads.
- Observe the instructions regarding the provided anchorage points.
- Do not fix at projecting machine parts or eyelets of attached components and ensure safe fit of the sling gear.
- Use only approved lifting gear and sling gear with sufficient lifting capacity.
- Do not use any ruptured or frayed ropes and straps.
- Do not rest ropes and belts at sharp edges and corners, do not knot or twist.

19.2 Transport inspection

On receipt check the delivery immediately for completeness and transport damage.

In case of externally visible transport damage, proceed as follows:

- Do not accept the delivery or under reserve only.
- Note the extent of damage on the transport documentation or on the delivery note of the carrier.

**NOTE!**

Report any defect as soon as it is detected. Claims for damages can be made only within the valid warranty period.

19.3 Transport by a person

Fig. 18: Transport

If folded, PFT CUTMASTER can be transported easily by a single person.

19.4 Car transport

Fig. 19: Car transport

PFT CUTMASTER can be folded to save space and then transported.

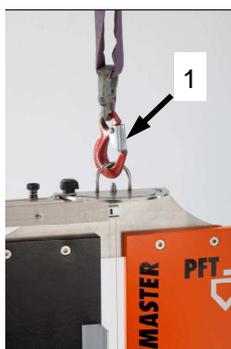
19.5 Crane transport Cutmaster 1100/310

Fig. 20: Crane transport

Attachment:

- Attach ropes or belts at lifting rings (1).
- Ensure that the package is straight, possibly observe eccentric centre of gravity.

20 Packaging

For packaging

The pack piece is packed according to the transport conditions to be expected. Only environmentally-friendly materials were used for the packaging.

The packaging should protect the individual components until the assembly from transport damage, corrosion and other damage. Therefore do not destroy the packaging and remove only shortly before the assembly.

Handling packaging materials

If no agreement for the recovery of the packaging has been made, separate materials according to type and size and reuse or recycle.



ATTENTION!

Environmental damage due to wrong disposal!

Packaging materials are valuable raw materials and in many cases they can be reused or reconditioned and recycled.

Therefore:

- Dispose of packaging materials in an environment-friendly way.
- Observe the applicable local disposal regulations. If required hand over the disposal to a specialist.

21 Operation

21.1 Safety

Personal protective gear

The following protective equipment has to be worn for all operative work:

- Protective clothing
- Protective goggles
- Protective gloves
- Safety shoes
- Breathing protection



NOTE!

Further protective equipment that is to be worn when effective particular jobs will be pointed out separately in the warning instructions of this chapter.

Basic information



WARNING!

Danger of injury due to incorrect operation!

Improper operation may lead to serious damage to persons or property.

- Carry out all operating steps according to the instructions in this user manual.
- Prior to starting your work, ensure that all covers and protection devices are installed and work as intended.
- Never deactivate protection devices during operation.
- Ensure order and cleanliness in the work area! Loose components and tools on top of another or lying about, pose potential accident risks.

22 Preparation

22.1 Operating condition CUTMASTER 1100/310



Fig. 21: Operating condition

Folding feet enable you to work at two working heights.

Open the feet and lean PFT CUTMASTER against a wall, ensuring it does not fall down.



NOTE!

While closing and opening the foot ensure that the left and the right supporting angle is locked at 90° and that the cutting bow is perpendicular.

22.2 Operating condition CUTMASTER 1300/310



Tighten the spring pin (1) on the rear on both the sides and fold the feet downwards. Ensure that the spring pins are locked.

Open the feet and lean PFT CUTMASTER against a wall, ensuring it does not fall down.

Fig. 22: Operating condition

22.3 Position in the open CUTMASTER 1100/310



An additional foot can be installed on the assembly plate (1) on the rear of PFT CUTMASTER (Accessory article number 00257132) for free-standing work.

Likewise, a frame bracket can be mounted (accessory article number 00271358).

Fig. 23: Free position

22.4 Position in the open CUTMASTER 1300/310



Loosen the three-winged nuts (1) on the rear and attach the support foot.

Tighten the three-winged screws again.

Likewise, a frame bracket can be mounted (accessory article number 00271358).

Fig. 24: Free position

22.5 Power connection



Fig. 25: Power connection

Before commissioning, check whether the current type and voltage comply with the specifications on the name plate.

Connect PFT CUTMASTER only to a 230V AC network.



DANGER!

Danger of death from electric current!

The connection line has to be fused properly:

- Connect the machine only to a site main cabinet with RCCB (30 mA).

22.6 Main cutting bow and supporting angle

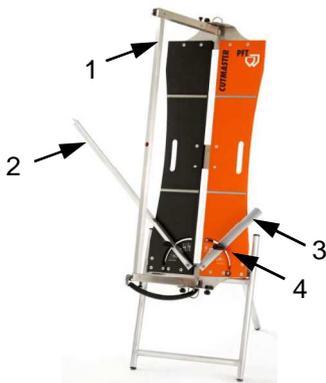


Fig. 26: Cutting bow

Move the cutting bow (1) from the idle position and let it click into place at the 90° position.



NOTE!

Ensure that the knurled screws are loosened above and below on swivelling the main bow, otherwise the ball slide rails will unnecessarily be burdened.

Wheel round both the supporting angles (2 + 3) in the desired position, loosen the cylinder grips (4) here and then tighten it again.

22.7 Storage screw for support angle



Fig. 27: Storage screw

The angle required for a project can be set with the storage screw (1). In the meantime, desired further steps can be carried out, in order to return to the default angle.

22.8 Stop screw for cutting depth

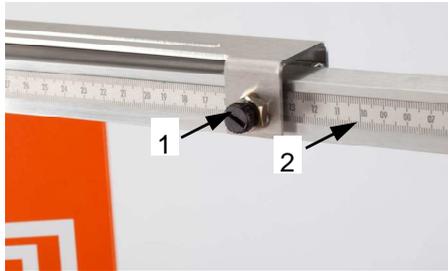


Fig. 28: Stop screw

Using the stop screw (1) on the cantilever of the swivelling unit, you can set certain cutting depths.

Pull out the main cutting bow (2) to the desired cutting depth and lock using the stop screw (1) on the upper and the lower cantilever.

The set cutting depth can be read on the left of the stop screw on the arrow.

22.9 Storage screw for depth stop

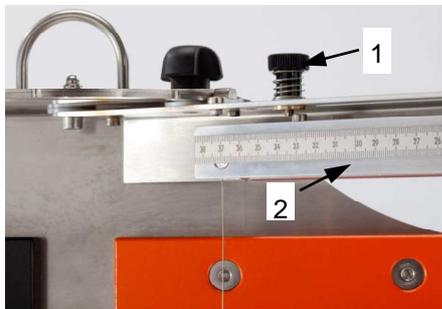


Fig. 29: Storage screw



Fig. 30: Cut-out

Storage screws (1) are installed in each case on top and bottom of the swivelling unit, with which the cutting depth of the cutting bow (2) can be restricted.

Cuts with the same depth can be repeated in this way.

22.10 Storage screw for swivel unit



Fig. 31: Storage screw



Fig. 32: Cut

The angle of contact of the cutting wire in the material can be changed by adjusting the main cutting bow (1).

- Loosen the knurled screws (2) at the bottom and on top on the swivelling unit and set to the required angle.
- Locking points are at $-45^{\circ}/90^{\circ}/+45^{\circ}$.
- Tighten knurled screws again.

The angle required for a project can be set with the storage screw (3). In the meantime, desired further steps can be carried out, in order to return to the default angle.

23 Commissioning the PFT CUTMASTER

23.1 PFT CUTMASTER cutting process



Fig. 33: On/Off button

By pressing the red press button (1) on the cutting bow, the cutting wire heats up to the optimum temperature within two seconds.



NOTE!

The press button must be pressed and held down during the cutting process.

Press the cutting wire into the material slowly and with appropriate pressure.



DANGER!

Danger of injury due to the hot cutting wire.

While cutting, keep one hand on the cutting bow (press button) and the other hand on the material that has been cut, away from the path of cutting of the cutting wire.



Warning!

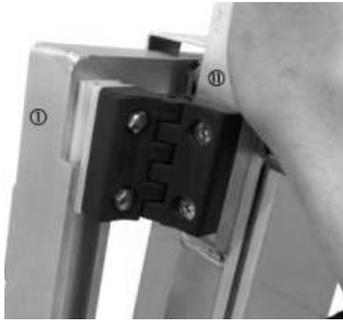
Always use the tool only in well-ventilated working areas.

Avoid inhaling the vapours released from cutting of materials.

23.2 PFT CUTMASTER with cutter for rafters



Turn the On/Off button 5 on the cutting bow 1 to position "I" to activate the main cutting wire. Press the red On/Off button on the cutting bow 1 with the right thumb to heat up the cutting wire. Cut with the right hand using the cutting bow and hold the material that has been cut with the left hand away from the path of cutting, in order to avoid injuries. You can now cut conventional foam polystyrene panels by moving the cutting bow.



The CUTMASTER package includes a front cutter 11, which enables you to make end cuts (cut into the material from top).

Ensure that the selector switch 5 is in position "0" and the main cutting wire has completely cooled down.

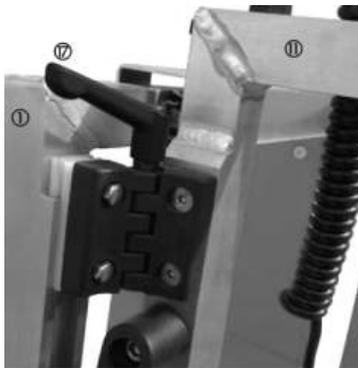
Insert the lower guiding sleeves from top, (!) as can be seen in the image on the left, into the groove provided for it on the main bow 1 and let the front cutter slide downwards.



Proceed in the same manner for the upper guiding sleeves, as in the previous step.

Insert the plug with the bayonet locking fitted at the end of the spiral cable into the socket provided for it on the main cutting bow 1.

Position the front cutter 11 by loosening and shifting the height stop 12 into the centre of the main cutting bow 1.



Now loosen the clamping lever 17 tightened in the idle position to be able to wheel around the front cutter 11.



Now pull out the main cutting bow 1 and swivel the front cutter 11 towards the main cutting wire 15. Now place the main cutting wire 15 on the brass rollers 14 present on the rear side of the front cutter 11.

The front cutter 11 is now ready to use.

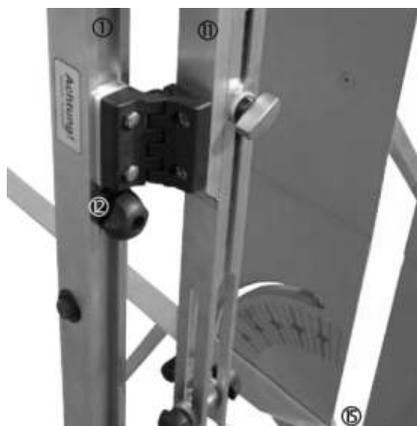
Turn the On/Off button 5 on the cutting bow 1 to position "II" to heat up the front cutting wire.

The main cutting wire 15 can no longer be switched on due to an electric safety switch.

Fuse protection



The angle of the front cutting wire 16 can be freely adjusted in the provided groove by the wire bonding (with wire hook) movable lengthwise into the front cutter 11. For this, loosen the knurled screw, shift the wire onto the desired position and tighten the knurled screw by hand. Tension the front cutting wire 16 after changing the angle every time by loosening, shifting and tightening the two-wing nut fitted inside centrally on the front cutter.



In order to recommission the main cutting wire 15, proceed as described earlier in the reverse sequence. Make sure to lock the front cutter 11 when open using the clamping lever 17, in order to prevent wheeling around of the main cutting wire 15 in the work area.

24 Fuse protection

24.1 Transformer



The transformer is doubly protected:

- Thermal switch-off in case of overheating.
- Via fuse, fitted in the white fuse holder (1).
- Replacement fuses (2).

Article number for the micro fuse: 00 10 34 03



NOTE!

In case of overheating, PFT CUTMASTER can be used further after 30 minutes of cooling-down time.

Fig. 34: Transformer



25 Change the cutting wire

25.1 Secure against restarting



DANGER!

Danger to life from unauthorised restarting!

When working with the tool, there is the risk that the energy supply is switched on without authorisation. This poses a danger to life for the persons in danger area.

- Switch off all power supplies before starting any work and secure against restarting.
- Pull out the mains plug.

Electrical system



DANGER!

Danger of death from electric current!

There is danger to life if you come in contact with live parts. Activated electrical components can carry out uncontrolled movements and cause serious injuries.

Therefore:

- Switch off the energy supply before starting any work and secure against restarting.

25.2 Spare cutting wire



Fig. 35: Spare cutting wire

There is a 10 meter roll of spare cutting wire on the rear of the PFT CUTMASTER (optional 20 meters of cutting wire. Article number 00257135).

- Article number 00257134 wire on a 10m roll for CUTMASTER.
- Article number 00257135 wire on a 20m roll for CUTMASTER.

25.3 Cutting wire storage above



Fig. 36: Storage above

Approx. Cut 140 cm of cutting wire from the spare roll.

Guide the cutting wire over the brass roll (1) and hinge the twisted end on the spring-loaded hook (2).

25.4 Cutting wire storage below

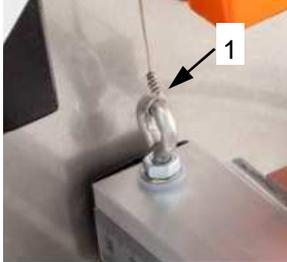


Fig. 37: Storage below

Guide the cutting wire through the eyelet (1) and tighten with appropriate force, in order to tension the spring on the upper wire storage.

Twist the end of the wire.



NOTE!

No part of the wire must remain on the tool.

Cut out all protruding extra wire parts, as these can cause a short-circuit between the hook and the bow.

26 Maintenance

26.1 Safety

Personnel

- Some maintenance work must only be carried out by specially trained technical personnel or exclusively by the manufacturer.
- Work on the electrical system must, in principle, be carried out only by electricians.

Electrical system



DANGER!

Danger of death from electric current!

There is danger to life if you come in contact with live parts. Activated electrical components can carry out uncontrolled movements and cause serious injuries.

Therefore:

- Switch off the energy supply before starting any work and secure against restarting.

Basic information



WARNING!

Risk of injury due to improperly carried out maintenance work!

Improper maintenance can lead to severe injuries or considerable property damage.

- Prior to starting the works ensure that there is enough space to carry out the works.
- Ensure order and safety at the assembly site! Loose, stacked components or components lying about can cause accidents.
- If components were removed, ensure proper assembly, put back all fastening elements and observe torque indications for screws.
- After every maintenance or repair, ensure that all protection equipment has been correctly fixed before the machine is re-commissioned.

27 Cleaning

27.1 Cleaning the cutting wire

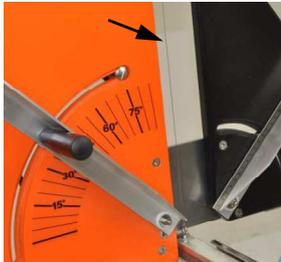


Fig. 38: Cutting wire

Clean the cutting wire several times each day using a dry cloth to remove any sticky unwanted substances.



Warning!

Clean the cutting wire only after the mains plug has been removed and the cutting wire has cooled down.

27.2 Cleaning the ball slide rails



Fig. 39: Ball slide rails

Clean the ball slide rails from top and bottom (1) with compressed air.

Oil or grease it slightly.



Do not operate CUTMASTER during cleaning.

If protective covers have been removed for cleaning purposes, they must be properly put back again without fail after completion.

Do not spray CUTMASTER with water or a steam jet.

27.3 Cleaning CUTMASTER

Clean the tool with a damp cloth every week.

Clean plastic parts and live parts (transformer, switches etc.) only with a dry cloth.



Warning!

Clean the tool only after the mains plug has been removed.



NOTE!

Do not use any aggressive cleaning agents.

27.4 Avoiding moisture



NOTE!

Make sure that the tool does not get moist.

28 Disassembly

After the useful service life has been reached, the device has to be dismantled and disposed off in an environmental-friendly manner.

28.1 Safety

Personnel: Disassembly

- Disassembly must be carried out only by specially trained technical personnel.
- Work on the electrical system must be carried out by qualified electricians only.

Basic information



WARNING!

Risk of injury in case of improper disassembly!

Stored residual energies, sharp components, points or edges at and inside the device or at the required tools might cause injuries.

Therefore:

- Prior to starting the works ensure that there is sufficient space.
- Carefully handle components with sharp edges.
- Ensure order and cleanliness at the working place! Loose components and tools on top of another or lying about pose potential accident risks.
- Dismantle components correctly. Pay attention to partly high dead weight of the components. If required use lifting equipment.
- Secure components that they do not fall down or fall over.
- In case of doubt, consult the dealer.

Electrical system



DANGER!

Danger of death from electric current!

There is danger to life if you come in contact with live parts. Activated electrical components can carry out uncontrolled movements and cause serious injuries.

Therefore:

- Prior to beginning the disassembly, switch off the power supply and finally disconnect it.



28.2 Disassembly

Clean the device for phasing out and disassemble under observance of applicable health and safety rules as well as environmental regulations.

Prior to starting the disassembly:

- Switch off device and secure against restarting.
- Physically separate the complete energy supply to the device, discharge stored residual power.
- Remove operating supplies as well as remaining processing materials and dispose off in an environment-friendly way.

28.3 Disposal

If no agreement for the recovery or the disposal was made, recycle the disassembled components:

- Scrap metals.
- Recycle plastic elements.
- Dispose off remaining components, sorted according to the type of material.



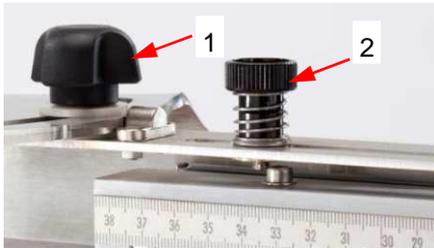
ATTENTION!
Environmental damage in case of incorrect disposal!

Waste from electronic and electrical equipment, electronic components, other auxiliary materials are subject to hazardous waste treatment and must be disposed off by specialised companies only!

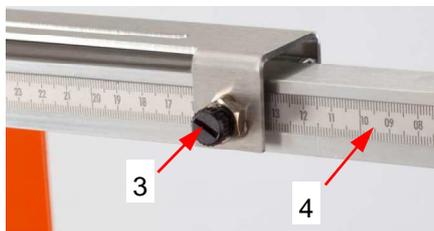
The local authority or special waste management operators can supply information on environmentally-friendly disposal.

29 Spare parts drawing/Spare parts list

29.1 Spare part drawing of PFT CUTMASTER 1100



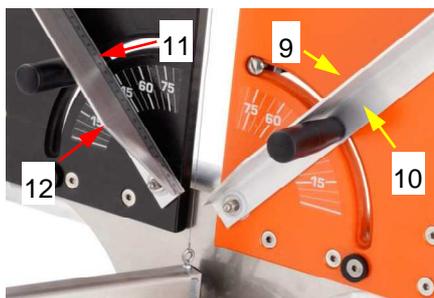
ITEM	Qty	Article no.	Article description
1	2	00256997	Three-winged nut M8
2	2	00256999	Depth stop complete set 1x knurled screw, 1x spring, 1x sleeve, 1x brass sleeve



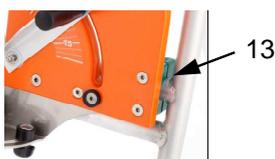
ITEM	Qty	Article no.	Article description
3	2	00256993	Locking screw for depth setting
4	2	00257001	Scale for bow above and below



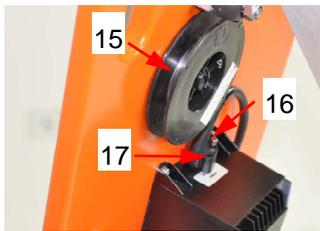
ITEM	Qty	Article no.	Article description
5	1	00257129	Base plate storage screw
6	2	00256998	Cylinder handle 90 mm Support angle for CUTMASTER
7	2	00257122	Eccentric 9 mm for CUTMASTER
8	2	00257130	Storage screw for swivel unit



ITEM	Qty	Article no.	Article description
9	1	00261628	Scale for short supporting angle
10	1	00256986	Short supporting angle with scale
11	1	00257000	Scale for long supporting angle
12	1	00256984	Long supporting angle with scale



ITEM	Qty	Article no.	Article description
13	1	00257128	CUTMASTER foot clamp



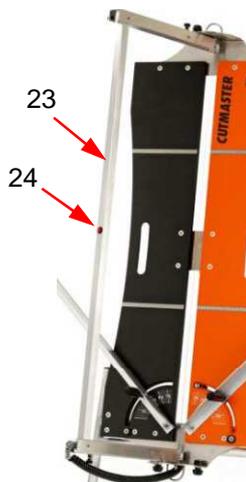
ITEM	Qty	Article no.	Article description
15	1	00257134	Wire on a 10m roll for CUTMASTER
	1	00257135	Wire on a 20m roll for CUTMASTER
16	1	00103403	Micro fuse 5 x 20 1.25A
17	1		Fuse holder



ITEM	Qty	Article no.	Article description
18	2	00257002	Base plate scale, right
19	2	00257003	Base plate scale, left
20	3	00257120	End caps for foot, round
21	1	00257132	Second foot, round (made of one part)



ITEM	Qty	Article no.	Article description
22	1	00257127	Ball slide rail set (above and below)



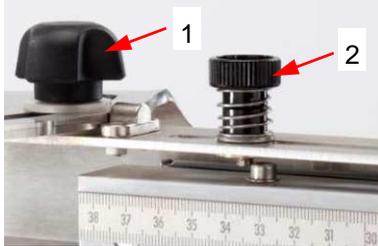
ITEM	Qty	Article no.	Article description
23	1	00257124	Bow pre-mounted including ball slide rail CM 1100/310
24	1	00290804	Press button CM 1100/310



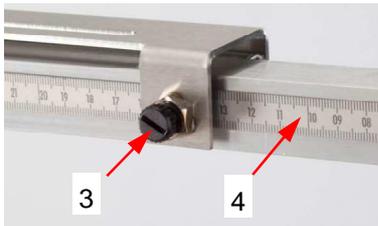
Qty	Article no.	Article description
1	00271358	Complete frame bracket for CUTMASTER



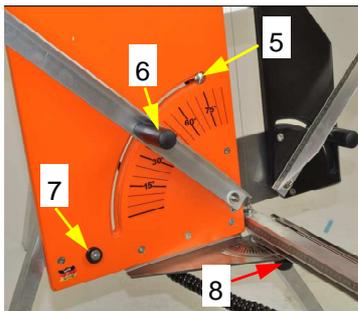
29.2 Spare parts list of PFT CUTMASTER1300



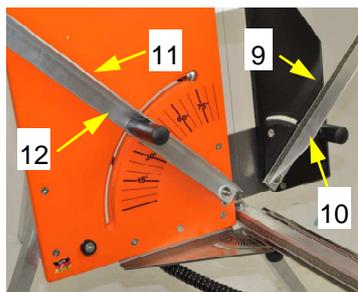
ITEM	Qty	Article no.	Article description
1	2	00256997	Three-winged nut M8
2	2	00256999	Depth stop complete set 1x knurled screw, 1x spring, 1x sleeve, 1x brass sleeve



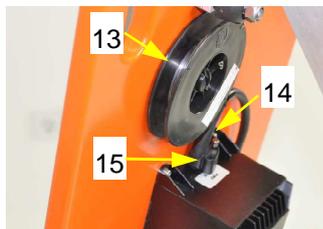
ITEM	Qty	Article no.	Article description
3	2	00256993	Locking screw for depth setting
4	2	00257001	Scale for bow above and below



ITEM	Qty	Article no.	Article description
5	1	00257129	Base plate storage screw
6	2	00256998	Cylinder handle 90 mm Support angle for CUTMASTER
7	2		Eccentric 9 mm for CUTMASTER
8	2		Storage screw for swivel unit



ITEM	Qty	Article no.	Article description
9	1		Scale for short supporting angle CM 1300
10	1		Short supporting angle with scale CM 1300
11	1	00257000	Scale for long supporting angle CM 1300
12	1		Long supporting angle with scale CM 1300



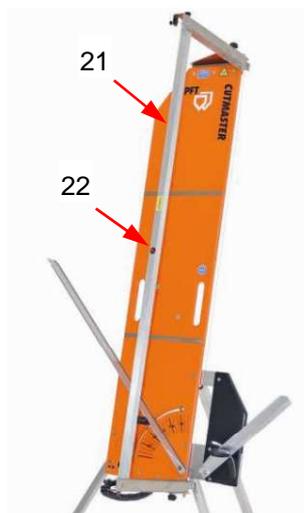
ITEM	Qty	Article no.	Article description
13	1	00257134	Wire on a 10m roll for CUTMASTER
	1	00257135	Wire on a 20m roll for CUTMASTER
14	1	00103403	Micro fuse 5 x 20 1.25A
15	1		Fuse holder



ITEM	Qty	Article no.	Article description
16	2		Base plate scale CM 1300
17	1		Rear support foot CM 1300
18	1		Right foot with auxiliary plate
19	1		Left foot incl. Swivelling plate



ITEM	Qty	Article no.	Article description
20	1	00257127	Ball slide rail set (above and below)



ITEM	Qty	Article no.	Article description
21	1		Bow pre-mounted including ball slide rails, pre-finished
22	1	00290804	Press button CM 1100/310



30 Test suggestions for annual inspection

Name of the inspector:

Test date:

.....

Signature of the inspector:

.....

Machine number:

Test indicator given: yes no

Part	Visual test		Functional test		Comment
	Pass	Fail	Pass	Fail	
Base plate level					
Scales still readable					
Feet straight					
Supporting angle straight					
Cylinder handle smooth					
Depth stops smooth					
Cutting bow smooth					
Network cable OK					
Spiral cable OK					
Transformer OK					

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THE FLOW OF PRODUCTIVITY



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