

Leister sets the standard on the roof.



Leister delivers performances.

Wherever you need to apply heat, Leister provides the ideal solution. We have been the worldwide leader in the field of plastic welding and hot-air blowers for over 60 years. For several years now we have also been offering innovative and effective laser systems and microsystems. We develop and produce all of our products in Switzerland – so you can always rely on the proverbial Leister quality. And because 98% of our production is exported, we have established a broad network of service centers throughout the world – guaranteeing excellent service anytime and anywhere.





Leister Corporate Center in Kaegiswil, Switzerland.

LEISTER



Plastic Welding

For decades now, we have been the worldwide market leader. The exceptional performance and reliability of our products makes Leister the first choice. Our tools are used in roof sealing systems, floor coverings, plastic sheeting, in earthworks, hydraulic and tunnel engineering, in process equipment manufacturing and for vehicle repair.

Process Heat



Whether for activation, heating, curing, melting, shrinking, welding, sterilization, drying or warming: hot-air is increasingly used in industrial processes. Leister customers profit from our extensive engineering knowledge and benefit from our advice in the conceptual design of hot-air applications.

NOVOLAS™



Lasersystems

Our innovative solutions for precision welding of plastics opens up new production methods in automobile manufacturing, medical and sensory technology, electronics, as well as in microsystems technology or in soldering electronic components.

axetris



Microsystems

In tomorrow's world, the smallest of structures will play a huge role! In order for our customers to keep ahead of the micro field in the future, we are already developing and producing micromechanical sensors and microoptical components in our clean-room today.

Most used equipment on the roof.

First rate quality is called required when laying and welding roofing membranes. After all, small mistakes can lead to expensive repairs. That is why professionals rely on Leister and our line of precise, durable and easy-to-operate equipment. We offer a variety of hot-air welding machines, hand tools, and a broad range of accessories for welding PVC-P, TPO, ECB, EPDM, CSPE and modified bitumen roofing membranes. As the worldwide market leader in the hot air plastic welding industry, Leister knows what roofing professionals need to succeed.

- All devices fulfill the highest engineering standards: (€, ⑤), CCA, □, ⑥ and ⑥ (TRIAC PID / S and HOT JET S)
- 100 % Swiss made quality
- 60 years of experience in plastic welding
- More than 120 Sales and Service Centres worldwide





VARIMAT V2



Ergonomic:

Height and angle of guide-bar can be adjusted easily



High tech:

NEW!

New gear design allows speeds of up to 12 m/min



Maintenance-free:

High performance brushless blower motor, no brushes to change



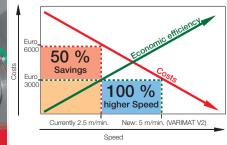
Intuitive:

Protected design. Easy-to-view display with "e-drive" and easy-to-store welding settings



High speed:

New welding nozzle with protected design for reliable welding quality



High potential savings: Lower costs thanks to higher welding speed (Cost calculations based on 20,000 m² / 5 m/min)

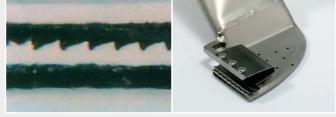
VARIMAT V2

Using the new VARIMAT V2, polymer roofing membranes can be welded more rapidly resulting in lower cost. Users appreciate its streamlined ergonomics and its ease of use.



- At more than 6 m/min, the fastest welding speed in the world (depending on material)
- Guide bar minimizes back strain
- No brushes to replace means less service costs
- User friendly display with "e-Drive" (press and turn control) to recall pre-set and saved welding settings

Technical Data				
Voltage	V~	200	230	400
Power consumption	W	4200	4600	5700
Temperature	°C	20 - 620		
Drive speed	m/min	0.7 - 12		
Air flow range	%	50 – 100		
Width of welding nozzle	mm	40		
Size (L \times W \times H)	mm	640 × 430	× 330	
Weight	kg	35		
Article No.				
VARIMAT V2	138.108	230 V, S	chuko plu	ıg
	137.821	400 V, 10	6 A EC p	lug
	139.734	200 V, Ja	apanese	plug
Other versions on request		Additio	onal acc	essories on page 18



For TPO-sheets the patented grip nozzle means there is no need for cleaning beforehand. (accessory)

Accessories VARIMAT V2

	113.995 113.600	Grip-nozzle 30 mm Grip-nozzle 40 mm
	107.067	Additional weight for even more pressure
	107.612 107.613 107.611	Heating element 230 V, 4400 W 400 V, 5500 W 200 V, 4000 W
LEISTER	139.048	Sturdy storage case * 720 × 470 × 450 mm, multi-layer plate, green
	132.429	2 welding plates for optimum welding start *
	138.817	Steel brush to clean nozzle *
	110.714	Maintenance set with size 5 screw- driver, size 2 and 8 pin wrenches and open-ended wrench size 17

* Included in delivery

The new VARIMAT V2 in use. Hoisted onto the roof in the practical transport box.

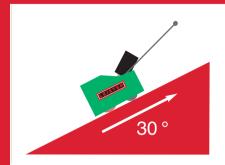


UNIROOF E



Kind to your back: Easily adjustable guide rod





Good at slopes: Up to 30° thanks to high motor power



Ergonomic: Integrated handle for easy carrying



Proven operation: Clear and consise



Increased safety: Thanks to the locking hot-air unit



Homogenous weld seam: Thanks to the sophisticated air dam belt

UNIROOF E

The UNIROOF E is particularly suitable for edges, hard-to-reach areas and smaller roofs. Where welding with the VARIMAT V is not possible, the UNIROOF E, with its compact design, offers the ideal solution.



- Easy to carry thanks to its light weight (only 13kg)
- Can be used anywhere with 10A / 230V power supply
- Up to 30° incline
- A lot of power in a small package

Technical Data		
Current	Α	10
Voltage	V~	230
Power consumption	W	2300
Temperature	°C	20 - 600
Speed	m/min	1 – 5
Width of welding nozzle	mm	30
Dimensions (L x W x H)	mm	420 × 270 × 210
Weight	kg	12.8 (with cable)
Article No.		
UNIROOF E	134.447	230 V / 30 mm with Euro plug
Other versions on request		Additional accessories on page 18



Lifting device for simple moving to the next weld seam. (accessory)



Roughening and welding of TPO films without pre-cleaning of the weld seam in one work step with the grip nozzle. (accessory)

Accessories UNIROOF E

125.685	Grip nozzle 30 mm, for roughening and welding of TPO single plies
107.067	Additional weight for even more pressure
115.057	Lifting device for simple moving to the next weld seam
103.604	Heating element 230 V, 2100 W

Rigid plastic carry case offers optimal protection. (Included in delivery)



Its small dimensions mean that there are no obstacles for the UNIROOF E.



Semi automatic welding machine

TRIAC DRIVE S

This tried and tested semi-automatic welding machine can be used in most applications. The increased welding speed compared with manual welding gives rise means higher productivity.



- Faster and more efficient than hand welding
- Small and compact
- Steplessly adjustable speed for high quality welding
- Can be used in the most confined spaces

Technical Data			
Voltage	V~	230	
Power consumption	W	1700	
Temperature	°C	20 - 600	
Speed	m/min	0.5 - 3	
Width of welding nozzle	mm	40 / 30	
Dimensions (L \times W \times H)	mm	300×23	0 × 380
Weight	kg	4.15 (with	3 m cable, without guide aid)
Article No.			
TRIAC DRIVE PID without gu	iide aid	115.985	230 V, outside, without grip, with Euro plug width of welding nozzle 40 mm with
TRIAC DRIVE PID with guide	aid	138.860	230 V, inside, without grip, with Euro plug, width of welding nozzle 30 mm
Other versions on reques	t		Additional accessories on page 18

Accessories TRIAC DRIVE S

Accessories TRIAC DRIVE S				
	115.274 115.176 115.712 138.570 115.857 115.921	Pressure roller 12 mm, steel Pressure roller 30 mm, steel Pressure roller 40 mm, steel Pressure roller 12 mm, silicon Pressure roller 30 mm, silicon Pressure roller 40 mm, silicon		
	115.276	Single supporting carrier		
	115.281 115.279 115.703 115.701	Overlap welding nozzle, inside, push-fit with grip, 38 mm with grip, 30 mm without grip, 38 mm without grip, 30 mm		
	115.280 115.278 115.702 115.700	Overlap welding nozzle, outside, push-fit with grip, 38 mm with grip, 30 mm without grip, 38 mm without grip, 30 mm		
	100.296	Heating element, 230 V, 1550 W, for TRIAC PID		
	138.549	Guide aid for easy horizontal welding, e.g. for parapets, including: - 2 pressure rollers, silicon, 12 mm - 1 pressure roller, silicon, 30 mm - 1 overlap welding nozzle, inside, without grip, 30 mm		

The practical Leister carrying case in included in delivery. (Art.-Nr.: 108.985)



The TRIAC DRIVE PID even allows horizontal welding.



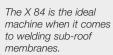
X84

Weighing just 6.1 kilograms, the X84 is recommended for highpitched roofs; with its powerful drive, the X84 overcomes every slope with constant speed and welding quality.



- Small, light and compact
- Suitable for uneven surfaces
- Constant welding pressure
- Controlled welding speed

Technical Data		
Voltage	V~	230
Power consumption	W	2300
Temperature	°C	20 - 600
Speed	m/min	0.5 - 3.5
Welding pressure	N	250
Air flow (20 °C)	l/min	Level 2: 150, Level 3: 190
Pressure static	Pa	Level 2: 1500 (15 mbar)
		Level 3: 2100 (21 mbar)
Width of welding nozzle	mm	30
Dimensions (L \times W \times H)	mm	$300 \times 310 \times 250$
Weight	kg	6.1 with 3 m cable
Article No.		
X 84 with guide-bar	107.484	230 V, 2300 W, with CH plug
Other versions on request		Additional accessories on page 18



Accessories X 84

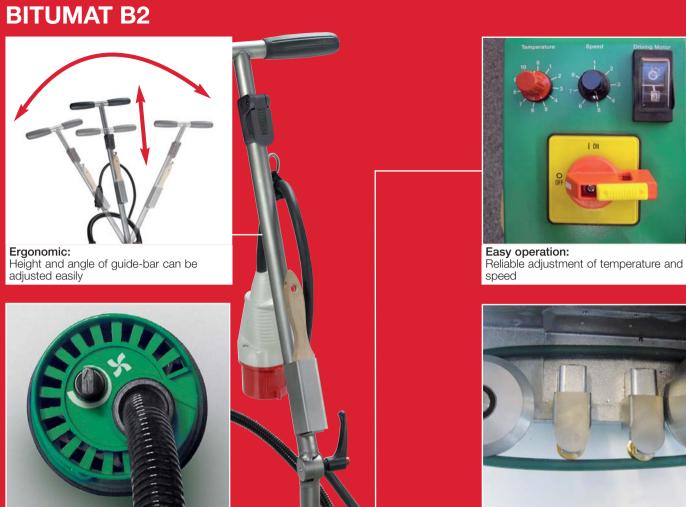


103.678

Heating element, 230 V, 2100 W







Variable blower speed: Tailor the amount of hot air needed to the material and the conditions



High process reliability:
The green air dam belt keeps the hot air in the weld seam



High-power nozzle: Specially developed for bitumen. Allows working speeds up to 12 m/min.



Spare pressure roller serves as additional weight where needed

BITUMAT B2

Welding of modified bitumen sheeting (SBS, APP) with the flameless BITUMAT B2 is much faster than with an open flame. The weld strength is significantly better and the welding process is more economical.



- Flameless welding of modified bitumen
- Uniform welding results
- Easy control of hot air volume
- High working speed
- Requires only one user to efficiently weld seams (for open flame two are required, one for heating and one for pressing on)

Technical Data

Voltage	V~	230	400
Power consumption	W	6700	6700
Temperature	°C	20 - 650	
Speed	m/min	0.8 - 12	
Air flow range	%	85 - 100	
Welding nozzle width	mm	75 / 100	
Dimensions $(L \times W \times H)$	mm	690 × 490 ×	330
Weight	kg	40 (with cable	e)

Article No

Article No.		
BITUMAT B2	140.438	400 V / 75 mm, 16 A-CEE- plug
	140.437	400 V / 100 mm, 16 A-CEE plug
	140.436	230 V / 75 mm, 32 A-CEE plug
	138.386	230 V / 100 mm, 32 A-CEE plug

Other versions on request Additional accessories on page 18

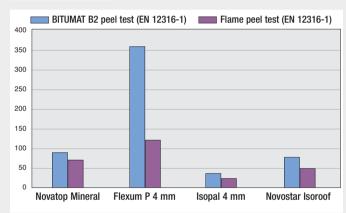
BITUMAT B2 Open flame



Considerably better welding results compared with open flame.

Accessories BITUMAT B2

	138.048 138.047	Bitumen nozzle 75 mm Bitumen nozzle 100 mm
	137.895 137.896 140.229 140.228	Pressure roller with gap 100 mm Pressure roller with gap 75 mm Pressure roller without gap 100 mm Pressure roller without gap 75 mm
	140.476	Lifting device for 75 mm version
LEISTER	140.489	Sturdy storage case, 720 x 470 x 450 mm, multi-layer plate, green (included in delivery)
	126.594 126.386	Heating element 400 V, 6500 W 230 V, 6500 W



Significantly better weld seam strength.

Easy unit guidance and clean working with the BITUMAT B2.



Hot-wedge welding machine

COMET sub-roof

The COMET is smoke-free and very quiet. Thanks to the built-in guide system, the width of weld zone is homogeneous – resulting in no non-welded edges. It is especially suitable for pre-fabrication of sub-roof membranes.



- Smoke-free, low-noise welding using hot-wedge technology
- Digital temperature and speed display
- No non-welded edge zones
- Ideal for indoor applications





Accessories COMET sub-roof

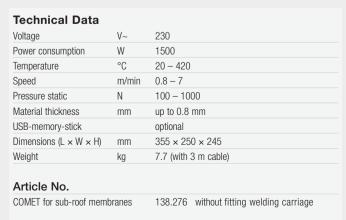


129.224

Guide-bar, complete, adjustable



The fitting welding carriage transfers the drive to the sub-roof membrane located below. This enables friction-free, high-quality welding. The fitting welding carriage is especially suitable for thin, homogenous material. Welding with a guide rail is also possible for the pre-fabricator.



Other versions on request

Additional accessories on page 18



Overview welding machines











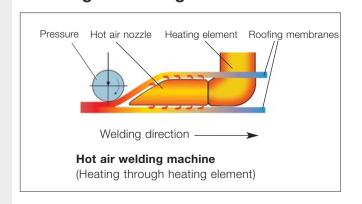


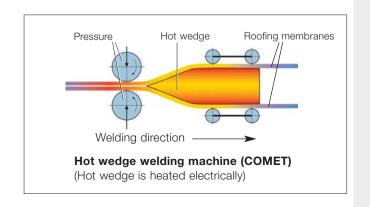
Materials	Plastic single ples				Modified bitumen	
Type of welding machine	VARIMAT V2	UNIROOF E	DRIAC DRIVE PID with guide aid	X84	COMET sub-roof sheeting	BITUMAT B2
Main application	Large areas	Small areas, as supplement to the V2	Details, pitched roofs	For sub-roof membranes	For pre-fabricators	Large areas
Roof construction						
Flat roof	///	///	///	✓	///	///
Sloping roof	✓	11	//	///	✓	✓
Basic weld seams	///	✓	✓	///	///	///
Detail work	✓	///	111	✓	✓	1
Special features	Operation with »e-Drive«	Up to 30° incline	Horizontal welding	Constant joining pressure	Indoor applications	No open flame
Fastening						
Mechanically fastened,						
hard substrate	Χ	Χ	Χ			Χ
Loosely laid, soft substrate				X	Χ	
Parapet spacing in mm	110	190 **	40	135	220	120
Electronics						
Controlled (close loop system)	Χ	Χ	X (blower)	Χ	Χ	
Controlled (open loop)			X (drive)			X
Speed m/min.						
Drive	0.7-12	1-5	0.5 - 3	0.5 - 3.5	0.8-7	0.8-12
Welding (depending on material)	4-8	2-3	1.5-3	1.5 – 2.5	3-4	3-6
Weight kg	35	12	4	6	7.7	40
Welding technology	Hot air*	Hot air	Hot air	Hot air	Hot wedge	Hot air

* Brushless blower ** No gap necessary for laminated sheets

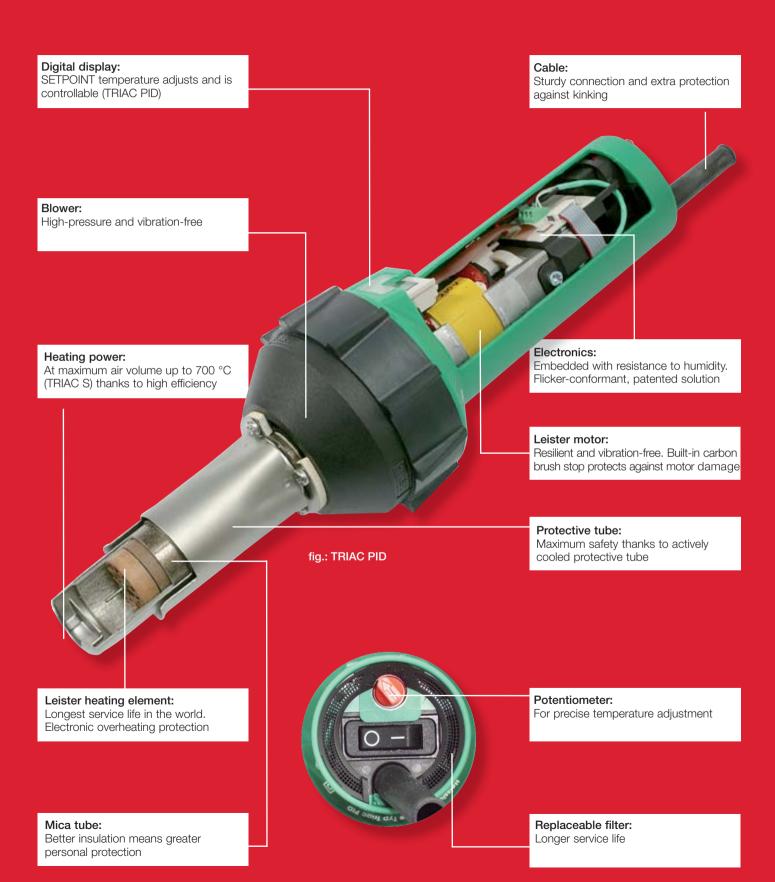
Welding technologies

 $\checkmark\checkmark\checkmark$ = Highly suitable, $\checkmark\checkmark$ = Suitable, \checkmark Limited suitability





TRIAC PID / TRIAC S



Hand tools

TRIAC PID / TRIAC S

TRIAC PID: thanks to micro-processor controlled temperature and electronic monitoring. For welding with the highest quality.

TRIAC S: the reliable, cost-effective and proven hand tool with steplessly controlled temperature range.



- Heating element with the longest service life worldwide
- Built-in carbon brush stop prevents motor damage
- Reproducible results thanks to digital display of set and actual temperature
- Worldwide use under the most demanding conditions!

Technica	l Data		
Voltage		٧~	230
Power consur	nption	W	1600
Temperature	TRIAC PID	°C	50 - 600
	TRIAC S		20 – 700
Air flow (20°C	C)	l/min	230
Pressure stati	С	Pa	approx. 3000 (30 mbar)
Dimensions (L	× Ø)	mm	340×90 , handle $\varnothing 56$
Weight		kg	1.4 (with 3 m cable)
Article No).		
TRIAC PID		100.741	230 V / 1600 W, Euro plug
TRIAC S		100.705	230 V / 1600 W, Euro plug
Other version	ns on reques	st	Additional accessories on page 18



There is space for everything you need in the practical carrying case provided.

Accessories TRIAC PID / TRIAC S

107.124 107.125	Angled nozzle 20 mm, 90°, push-fit Angled nozzle 20 mm, 60°, push-fit
107.132 107.130 107.133 128.535	Wide slot nozzles, push-fit 40 mm 40 mm, 60° bent 40 mm, perforated 30 mm, 45° bent
107.129 107.131	Wide slot nozzle 60 mm for bitumen, push-fit Wide slot nozzle 80 mm, push-fit
107.123	Wide slot nozzle 20 mm, push-fit
100.303	Tubular nozzle Ø 5 mm, push-fit
106.989 106.990 106.991	Speed welding nozzle 3 mm, push-fit on tubular nozzle Ø 5 mm Speed welding nozzle 4 mm, push-fit on tubular nozzle Ø 5 mm Speed welding nozzle 5 mm, push-fit on tubular nozzle Ø 5 mm
100.296 100.689	Heating element, 230 V, 1550 W, for TRIAC PID Heating element, 230 V, 1550 W, for TRIAC S
	107.125 107.132 107.130 107.133 128.535 107.129 107.131 107.123 100.303 106.989 106.990 106.991 100.296

The reliable TRIAC ensures prefect welding results.



Hand tool

ELECTRON

The powerful, and yet small and versatile, Leister ELECTRON is a hand tool, perfect for the specialist.



- Powerful
- Compact
- Robust
- Construction site tried and tested

Technical Data			
VoltageV~		230	400
ower consumption	W	3400	5500
Temperature	°C	20 - 650	
Air flow (20°C)	l/min	320, manu	al air slide
Pressure static	Pa	3000 (30 n	mbar)
Dimensions (L \times \varnothing)	mm	320×95 ,	handle Ø 64
Weight	kg	1.5 (with 3	m cable)
Article No.			
ELECTRON	107.781	230 V / 34	00 W, with Euro plug
ELECTRON for bitumen	107.788	400 V / 55	00 W, with 16 A-CEE plug
Other versions on reques	t	Add	litional accessories on page 18

Accessories ELECTRON

107.258	Wide slot nozzle, push-fit 70×10 mm, for bitumen Wide slot nozzle, push-fit 40×2 mm, for bitumen
107.266	Wide slot nozzle 75×2 mm, push-fit, with base
113.269 101.273	Heating element, 230 V / 3400 W Heating element,, 400 V / 5500 W

Practical base for more safety. Supplied with nozzle. Art.-no. 107.266



The powerful ELECTRON with a wide slot nozzle in use for welding bitumen.



Hand tool

HOT JET S

The most compact hand tool from Leister: HOT JET S' low weight, at just 600 grams, incl. cord and slim handle, ensures fatigue-free welding and high power.



- The world's smallest hand tool
- Electronic steplessly controlled temperature and air flow
- Low noise
- Integrated flexible base

Other versions on request

Technical Data	.,	000	
Voltage	V~	230	
Power consumption	W	460	
Temperature	°C	20 - 600	
Air flow (20°C)	I/min	20 - 80	
Pressure static	Pa	max. 1600 (16 mbar)	
Dimensions (L $\times \varnothing$)	mm	235×70 , handle $\varnothing 40$	
Weight	kg	0.6 (with 3 m cable)	
Article No.			
HOT JET S	100.648	230 V, 460 W, Euro plug	

Additional accessories on page 18

Accessories HOT JET S

	107.142 107.141	Wide slot nozzle 20 mm, push-fit Wide slot nozzle 15 mm, push-fit
	107.144	Tubular nozzle Ø 5 mm, push-fit
	105.556	Angled nozzle 20 mm, 90°, push-fit
3 Ø 4 Ø 5 Ø	106.989 106.990 106.991	Speed welding nozzle 3 mm, push-fit on tubular nozzle Ø 5 mm Speed welding nozzle 4 mm, push-fit on tubular nozzle Ø 5 mm Speed welding nozzle 5 mm, push-fit on tubular nozzle Ø 5 mm
	100.818	Heating element 230 V, 435 W

The small and lightweight HOT JET S is ideal when space is restricted.



Tensiometer

EXAMO

Is the welding seam sealed and can it withstand the specified peeling, tensile and shearing forces? EXAMO performs right at the construction site - quick, reliable and uncomplicated.



- Handy, robust and light
- Digital display of elongation, peak force, tear force, test speed and position

Type		300F	600F
Voltage	٧~	230	230
Power consumption	W	200	200
Tensile load	Ν	4000	4000
Sample thickness	mm	max. 7	max. 7
Sample width	mm	max. 40 (60 optional)	max. 40 (60 optional)
Dimensions case (L \times W \times H)	mm	750 × 270 × 190	1050 × 270 × 190
Weight	kg	14	17.5
Article No.			
EXAMO USB		139.059	139.060





The USB stick ensures a verifiable evaluation of the welding results with the EXAMO.

Additional accessories for roofing

	106.972	Pressure roller with ball bearings (brass)
	106.974	Pressure roller 80 mm (silicon)
	106.975	One-arm pressure roller 40 mm, with ball bearings (silicon)
	106.976 106.977	Pressure roller 28 mm (PTFE) Pressure roller 28 mm (silicon)
	138.314	Seam probe tester
	111.346	Edge plane with 6 spare blades Spare blade kit with 10 blades
	111.348	•
()	137.855 138.902 138.539	Leister cutter with 5 blades 10 x 10 spare blades hook shape 10 x 10 spare blades trapezoid shape
	116.586	Carrying case, for TRIAC PID, TRIAC S, ELECTRON



Seam probe tester in use.

Breaking the edge of a T-seam with the edge plane.





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Leister Process Technologies is an ISO 9001 certified enterprise.

Specifications are subject to change without prior notice.



Our close worldwide network of more than 120 Sales and Service Centres in more than 90 countries.

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