LEISTER STANMECH TECHNOLOGIES INC.

For Roofing

VARIMAT V2
LEISTER

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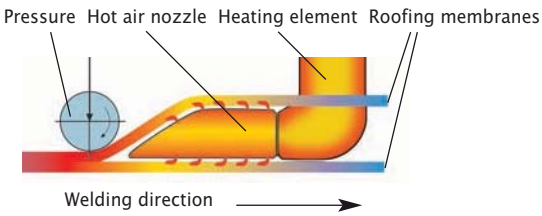


Hot air welding machine

Hot air welding technology

Welding machine overview

Materials		**Plastic single plies**		**Modified bitumen**
Type of welding machine	**VARIMAT V2**	**UNIROOF E** 40MM	**TRIAC DRIVE AT**	**BITUMAT B2**
Main application	Large areas	Small areas, as supplement to the V2	Details, pitched roofs	Large areas
Roof construction				
Flat roof	√√√	√√√	√√√	√√√
Sloping roof	√	√√	√√	√
Basic weld seam	√√√	√	√	√√√
Detail work	√	√√√	√√√	√
Special features	Operation with »e-Drive«	Up to 20º incline	Horizontal welding	No open flame
Fastening				
Mechanically fastened, hard substrate	X	X	X	X
Parapet spacing in mm	110	190 **	40	120
Electronics				
Closed loop control	X	X	X (TRIAC AT)	
Open loop control			X (drive unit)	X
Speed m/min.				
Drive	0.7 – 12	1 – 5	0.5 – 3	0.8 – 12
Welding (depending on conditions)	4 – 8	2 – 3	1.5 – 3	3 – 6
Weight kg	35	15.4	4	40
Welding technology	Hot air *	Hot air	Hot air	Hot air

√√√ = highly suitable √√ = suitable √ = limited suitability * Brushless blower ** No gap necessary for laminated sheets

Hot air welding machine

VARIMAT V2

The VARIMAT V2 welds roofing membrane with astonishing speed. Leister »e-Drive« technology makes it easy to use, and its patented pressure roller design compensates for slight unevenness in the welding surface.

- Wrinkle free welding of all thermoplastic roofing materials including: PVC-P, ECB, EPDM, CSPE, and TPO
- Newly designed welding nozzle for reliable high speed welding
- New drive design allows welding speeds of up to 8 m/min, depending on conditions
- Ability to recall and store pre-set & custom welding profiles
- Slim design allows welding as close as 110 mm to parapets
- High performance, maintenance-free, brushless blower motor
- Both height and angle of guide handle is adjustable
- Optional TPO grip nozzle eliminates the need for cleaning before welding

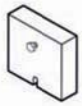
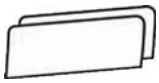
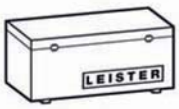
Technical Data

Voltage	V	230
Power consumption	W	4600
Temperature	ºC	20 – 620
Speed	m/min	0.7 – 12
Air flow range	%	50 – 100
Width of welding nozzle	mm	40
Dimensions (L x W x H)	mm	640 x 430 x 330
Weight	kg	35
Approval markings		CE QPS
Electrical protection		Class I

Article No.:
138.982 VARIMAT V2 230 V / 4600 W, without plug

Included in delivery: VARIMAT V2, welding plates, steel brush, storage case

VARIMAT V2 Accessories

	113.995 **113.600**	Grip nozzle, 30 mm Grip nozzle, 40 mm For roughening and welding of TPO single plies
	**107.067**	Additional weight
	**132.429**	2 welding plates for optimum welding starts
	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
	107.612	Heating element, 230 V / 4400 W
	**139.048**	Sturdy storage case 720 x 470 x 450 mm

Hot air welding machine

UNIROOF E 40 MM

The UNIROOF E 40MM is the successor to the UNIROOF E; it produces 25% more heat output and welds a 40 mm seam. The UNIROOF E 40MM is especially suited to smaller roofs, as an introductory tool, or as an accompaniment to the larger VARIMAT V2 for hard to access areas and close to edges.

- Suitable for PVC, TPO, ECB, EPDM, and CSPE materials
- Automatic and constant temperature adjustment independent of voltage fluctuations and environmental conditions
- Powerful drive can handle slopes of up to 20˚
- Ergonomic, easy to adjust guide handle

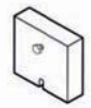
Technical Data

Voltage	V	230
Power consumption	W	2900
Temperature	ºC	20 – 600
Speed	m/min	1 – 5
Width of welding nozzle	mm	40
Dimensions (L x W x H)	mm	420 x 280 x 210
Weight	kg	15.4 (with cord & weights)
Approval markings		CE QPS
Electrical protection		Class I ⏚

Article No.:
147.828 UNIROOF E 40MM 230 V / 2900 W, without plug

Included in delivery: UNIROOF E 40MM, guide bar, 2 additional weights, storage case

UNIROOF E 40MM Accessories

	**107.067**	Additional weight
	115.057	Lifting device
	103.605	Heating element, 230 V / 2100 W
	126.448	Sturdy storage case 605 x 486 x 312 mm

Semi-automatic welding machine

TRIAC DRIVE S / AT

This tried and tested semi-automatic hot air welder can be used for vertical or horizontal hot air welding. The increased welding speed compared with manual welding means higher productivity.

- Overlap welding of any thermoplastic material
- Faster and more efficient than hand welding
- Small and compact
- Fully adjustable speed
- Automatic shut-off when carbon brushes reach their wear limit to avoid expensive armature damages
- Built-in electronics provide superior temperature control and heating element protection
- Can be used in the most confined spaces
- Closed-loop temperature control (TRIAC DRIVE AT)

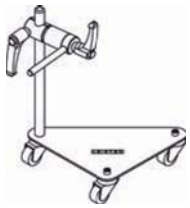
Technical Data

Voltage	V	120, 230
Power consumption	W	1700
Temperature	ºC	20 – 700 (TRIAC S) 20 – 650 (TRIAC AT)
Speed	m/min	0.5 – 3
Width of welding nozzle	mm	30 / 38
Dimensions (L x W x H)	mm	300 x 230 x 380
Weight	kg	4.15 (with 3 m cable, without guide aid)
Approval markings		CE QPS
Electrical protection		Class I

Included in delivery:

TRIAC DRIVE unit
TRIAC S or TRIAC AT
Single or double support carrier
1 pressure roller, 30 or 40 mm, silicon or steel
1 overlap nozzle, 30 or 38 mm, inside or outside, with or without grip
Storage case

TRIAC DRIVE S / AT Accessories

	115.176 Pressure roller 30 mm, steel **115.712** Pressure roller 40 mm, steel **115.857** Pressure roller 30 mm, silicone **115.921** Pressure roller 40 mm, silicone
	115.276 Single supporting carrier **115.275** Double supporting carrier
	Overlap welding nozzle, inside, push-fit **115.281** with grip, 38 mm **115.279** with grip, 30 mm **115.703** without grip, 38 mm **115.701** without grip, 30 mm
	Overlap welding nozzle, outside, push-fit **115.280** with grip, 38 mm **115.278** with grip, 30 mm **115.702** without grip, 38 mm **115.700** without grip, 30 mm
	**138.549** Guide aid for horizontal welding
	108.985 Storage case

Hot air welding machine

BITUMAT B2

The BITUMAT B2 is a high-speed flameless automatic welding machine for welding modified bitumen roofing (SBS, APP). It produces significantly better weld strength than open-flame welding, is more economical, and is safer to use.

- Flame-free welding of modified bitumen
- High process reliability and uniform welding results
- Temperature, air flow, and drive speed independently adjustable
- Drive speed of up to 12 m/min
- High-power nozzle specially developed for bitumen welding
- Ergonomic, adjustable guide handle
- Only one operator needed for welding

Technical Data

Voltage	V	230
Power consumption	W	6700
Temperature	ºC	20 – 650
Speed	m/min	0.8 – 12
Air flow range	%	85 – 100
Width of welding nozzle	mm	75 / 100
Dimensions (L x W x H)	mm	690 x 490 x 330
Weight	kg	40 (with cord)
Approval markings		CE QPS
Electrical protection		Class I

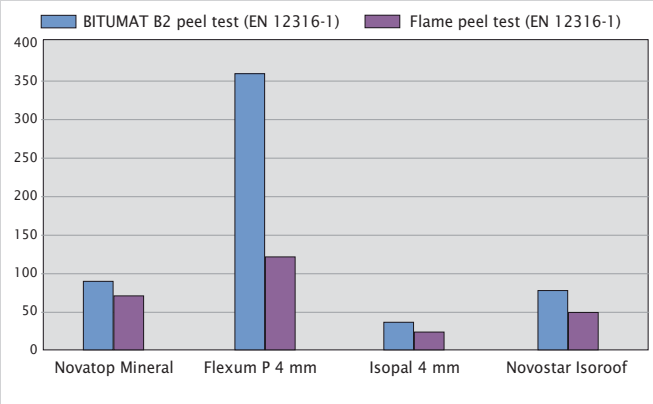
Article No.:

140.441 BITUMAT B2 230 V / 6700 W, 75 mm, without plug
138.386 BITUMAT B2 230 V / 6700 W, 100 mm, without plug

Included in delivery: BITUMAT B2, storage case

BITUMAT B2 Accessories

	138.048 **138.047**	Bitumen nozzle, 75 mm Bitumen nozzle, 100 mm
	137.895 **137.896**	Pressure roller with gap, 100 mm Pressure roller with gap, 75 mm
	140.476	Lifting device for 75 mm version
	140.489	Sturdy storage case 750 x 555 x 450 mm
	126.386	Heating element, 230 V / 6500 W



Testing instrument

EXAMO / EXAMO USB

The EXAMO is built for taking tensile measurements directly at the construction site. Clamp separation width of 300 or 600 mm available. Data recording onto a USB drive is possible with the EXAMO USB.

- Designed for construction site conditions
- Handy, robust and light
- Digital display of elongation, peak force, tear force, test speed and position
- Optional data recording onto a USB drive (EXAMO USB)

Technical Data

Type		300F	600F
Voltage	V	120, 230	120, 230
Power consumption	W	200	200
Tensile load	N	4000	4000
Jaw spacing	mm	5 – 300	5 – 600
Range	mm	300	600
Test speed	mm/min	10 – 300	10 – 300
Sample thickness	mm	max. 7	max. 7
Sample width	mm	max. 40 (60 optional)	max. 40 (60 optional)
Dimensions (L x W x H)	mm	750 x 270 x 190 (case)	1050 x 270 x 190 (case)
Weight	kg	14	17.5
Approval markings		CE QPS	CE QPS
Electrical protection		Class I	Class I

Article No.:

115.432 EXAMO 300F 120 V / 200 W, without USB capability or plug
113.060 EXAMO 300F 230 V / 200 W, without USB capability or plug
139.059 EXAMO 300F USB 230 V / 200 W, with USB drive, without plug

113.326 EXAMO 600F 120 V / 200 W, without USB capability or plug
113.061 EXAMO 600F 230 V / 200 W, without USB capability or plug
139.060 EXAMO 600F USB 230 V / 200 W, with USB drive, without plug

Hot air hand tool

ELECTRON

Powerful and versatile, the ELECTRON provides high heating efficiency and large air volume in a compact size. It is a good companion tool to the BITUMAT B2 for welding bitumen roofs.

- Temperature and air-flow independently adjustable
- Automatic shut-off when carbon brushes reach their wear limit to avoid expensive armature damages
- Construction site tested
- Powerful yet compact

Technical Data

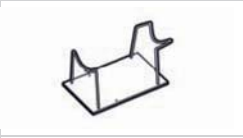
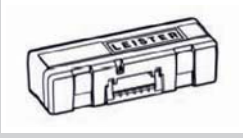
Voltage	V	120, 230
Power consumption	W	2700, 3400
Temperature	ºC	20 – 650
Dimensions (L x Ø)	mm	320 x 95, handle Ø 64
Weight	kg	1.3 (without 3 m cord)
Approval markings		CE QPS
Electrical protection		Class II

Article No.:

107.791 ELECTRON 120 V / 2700 W, with plug

107.781 ELECTRON 230 V / 3400 W, without plug

ELECTRON Accessories

	107.258 **107.134**	Wide slot nozzle, push-fit 70 x 10 mm, for bitumen Wide slot nozzle, push-fit 40 x 2 mm, for bitumen
	107.266	Wide slot nozzle 75 x 2 mm, push-fit, with tool stand (116.753)
	116.753	Tool stand
	**107.348**	Tool rest
	103.588 **113.269**	Heating element, 120 V / 2600 W Heating element, 230 V / 3400 W
	**116.586**	Tool box for ELECTRON, TRIAC BT, TRIAC AT, TRIAC S

Hot air hand tool

TRIAC S

The TRIAC S is the most popular Leister hand tool; it is a reliable, cost-effective, and proven hand tool with simple adjustment of temperature up to 700ºC via a rotary knob.

- Easy and comfortable to use thanks to its small diameter handle and low overall weight
- Automatic shut-off when carbon brushes reach their wear limit to avoid expensive armature damages
- Additional heater tube sleeve helps prevent burns during use
- Electronic protection of heating element
- Suitable for outdoor operation
- Construction site tested

Technical Data

Voltage	V	120, 230
Power consumption	W	1600, 1600
Temperature	ºC	20 – 700
Dimensions (L x Ø)	mm	340 x 90, handle Ø 56
Weight	kg	1.1 (without 3 m cord)
Approval markings		CE QPS
Electrical protection		Class II ⧈

Article No.:

100.726 TRIAC S 120 V / 1600 W, for push-fit nozzles, with plug
100.705 TRIAC S 230 V / 1600 W, for push-fit nozzles, without plug

Included in delivery: TRIAC S, storage case

Hot air hand tool

TRIAC AT

The TRIAC AT offers the advantages of closed-loop temperature control, independent air flow control, and a digital display. Leister's unique »e-Drive« control system makes it easy to use and includes a lock feature to prevent accidental setting changes while the tool is in use.

- Digital display shows precise value of temperature and level of air flow selected; warnings such as undervoltage, replace carbon brushes soon, and tool overheated included on display
- Cool down mode with automatic shut-off
- Automatic and constant temperature adjustment independent of voltage fluctuations and environmental conditions
- Easy and comfortable to use
- Automatic shut-off when carbon brushes are worn
- Additional heater tube sleeve helps prevent burns during use
- Electronic protection of heating element
- Construction site tested and suitable for outdoor use

Technical Data

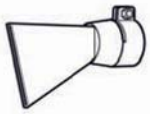
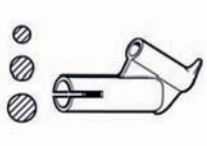
Voltage	V	120, 230
Power consumption	W	1600, 1600
Temperature	ºC	40 – 650
Air flow	l/min	120 – 240
Dimensions (L x Ø)	mm	335 x 90, handle Ø 56
Weight	kg	1 (without 3 m cord)
Approval Markings		CE QPS
Electrical protection		Class II ⧈

Article No.:

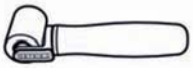
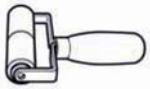
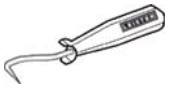
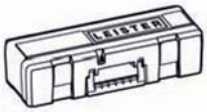
141.382 TRIAC AT 120 V / 1600 W, for push-fit nozzles, with plug
141.314 TRIAC AT 230 V / 1600 W, for push-fit nozzles, without plug

Included in delivery: TRIAC AT, storage case

TRIAC S / TRIAC AT Accessories

	107.123 Wide slot nozzle 20 mm, push-fit
	Wide slot nozzle, push-fit **107.132** 40 mm **107.130** 40 mm, 60º bent **107.133** 40 mm, perforated **128.535** 30 mm, 45º bent
	**107.129** Wide slot nozzle 60 mm for bitumen, push-fit **107.131** Wide slot nozzle 80 mm, push-fit
	107.124 Angled nozzle 20 mm, 90º, push-fit **107.125** Angled nozzle 20 mm, 60º, push-fit
	100.303 Tubular nozzle Ø 5 mm, push-fit
	**106.989** Speed welding nozzle 3 mm, push-fit on tubular nozzle Ø 5 mm **106.990** Speed welding nozzle 4 mm, push-fit on tubular nozzle Ø 5 mm **106.991** Speed welding nozzle 5 mm, push-fit on tubular nozzle Ø 5 mm
	100.702 Heating element 120 V / 1550 W, for TRIAC S **100.689** Heating element 230 V / 1550 W, for TRIAC S **142.638** Heating element 120 V / 1550 W, for TRIAC AT **142.637** Heating element 230 V / 1550 W, for TRIAC AT

General Accessories

	**140.160** Pressure roller 40 mm with ball bearings (silicone)
	140.161 Pressure roller 28 mm with ball bearings (silicone)
	**106.974** Pressure roller 80 mm (silicone)
	106.972 Pressure roller, with ball bearings (brass)
	106.976 Pressure roller 28 mm (PTFE)
	**138.314** Seam probe tester
	111.346 Edge plane with 10 spare blades **111.348** 10 spare blades for edge plane
	137.855 Leister knife with four blades **138.902** 10 spare blades, hook shape **138.539** 10 spare blades, trapezoid shape
	**116.586** Storage case for TRIAC AT, TRIAC S, TRIAC BT, ELECTRON

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