





Roofing

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Hot Air Tools for Roofing

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The VARIMAT V2 guide bar fits in tight spaces.



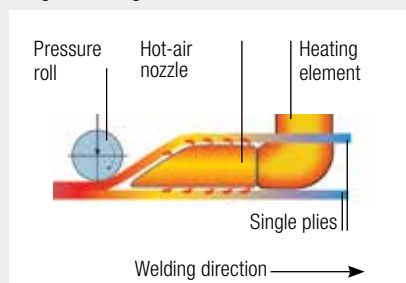
Flameless modified bitumen welding with the BITUMAT B2.

Overview Roofing Welders

					
Materials	Single-ply plastic membranes				Modified bitumen
Type of welding machine	VARIMAT V2	UNIROOF E 1.6 inch	TRIAC DRIVE AT with guide	COMET SUB-ROOF	BITUMAT B2
Main application	Welding close to edges Large areas over 600 Yards²	Parapets, edges Small areas, parapets under 600 Yards²	Cramped conditions, vertical parapets	For pre-fabricators	First bitumen layer
Roof construction					
Flat roof	✓✓✓	✓✓✓	✓✓✓		✓✓✓
Sloping roof	✓	✓✓	✓✓	✓✓	✓
Basic weld seams	✓✓✓	✓	✓	✓✓✓	✓✓✓
Detail work	✓	✓✓✓	✓✓✓	✓	✓
Special features	High welding power	Welding at edges	Vertical welding	Welding thin membranes	Flameless welding
Fastening					
Mechanically fastened, hard substrate	X	X	X		X
Loosely laid, soft substrate	X	X	X	X	X
Parapet spacing in inch	4.3	7.5 **	1.6	8.6	7.9
Electronics					
Controlled (closed-loop system)	X	X	X (blower)	X	
Controlled (open loop)			X (drive)		X
Speed ft/min.					
Drive	2.3 –39	3–16	2.6 –19.7	2.6 –39	0.8 – 12
Welding (depending on material)	13 –26	6.5 –9.8	4.9 –9.8	9.8 –19.6	9.8 –19.6
Weight lbs	77	28	8.8	17	88
Welding technology	Hot-air*	Hot-air	Hot-air	Hot-wedge	Hot-air
✓✓✓ = Highly suitable, ✓✓ = Suitable, ✓ = Limited suitability					
		* Brushless blower		**No gap necessary for laminated sheets	

Welding technologies Roofing welders

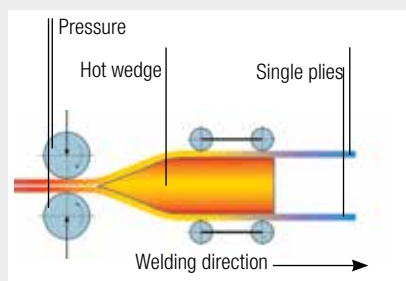
Hot gas welding



Heating by hot-air

- VARIMAT V2
- UNIROOF E 1.6 inch
- TRIAC DRIVE AT
- BITUMAT B2

Hot-wedge welding



Heating by electrically heated wedge

- COMET SUB-ROOF





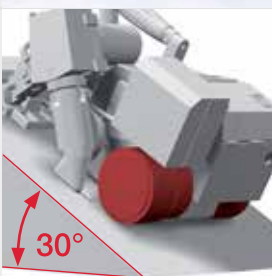


The VARIMAT V2 is perfectly protected and can easily be moved into and out of its sturdy storage case.

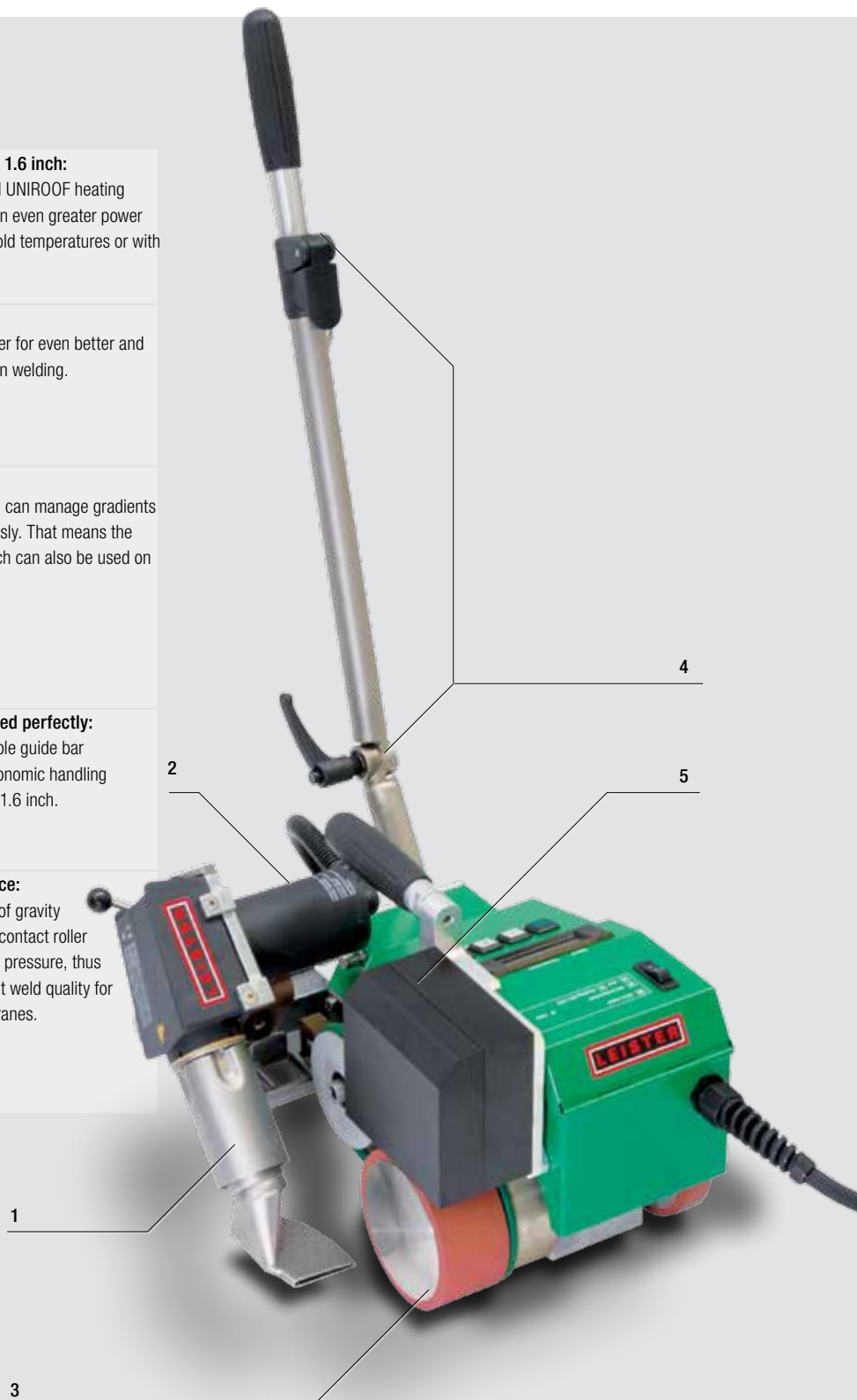
UNIROOF E 40 mm (1.6 inch)

Leister's UNIROOF E 40 mm (1.6 inch) the automatic roof welding machine of the new, powerful compact class, makes it convenient and easy to work with single-ply membranes. The new 1.6 inch nozzle means greater safety with overlap welding. Thanks to 2900 Watt power at only 13A, the tool can be used practically anywhere while providing ample power reserves.

Hot-air welder

UNIROOF E 40 mm (1.6 inch)

1		More power with 1.6 inch: The most powerful UNIROOF heating element ensures an even greater power reserve, even at cold temperatures or with thick materials.
2		Tool guidance: Adapted guide roller for even better and easier control when welding.
3		A powerhouse: The powerful drive can manage gradients up to 30° effortlessly. That means the UNIROOF E 1.6 inch can also be used on sloping roofs.
4		Everything handled perfectly: The freely adjustable guide bar ensures ideal, ergonomic handling of the UNIROOF E 1.6 inch.
5		More contact force: Having the center of gravity directly above the contact roller creates even more pressure, thus allowing a constant weld quality for all types of membranes.





Hot-air welder

UNIROOF E 40 mm (1.6 inch)



- Controlled technology with display guarantees a constant and reliable weld for a leakproof roof
- 100% swiss made quality
- Powder-coated, rust-free stainless steel housing and rustproof components
- Lightweight and compact


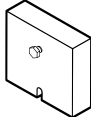
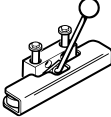

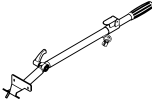
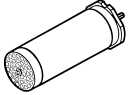
Technical Data

Amperage	A	13
Voltage	V~	230
Power	W	2900
Frequency	Hz	50/60
Temperature	°F	176 – 1112
Speed	ft / min	3.3 – 16.4
Welding seam width	inch	1.6
Size (L × W × H)	inch	16.5 × 11.0 × 8.3
Weight		
(incl. cable and additional weights)	lbs	34
Weldable materials PVC, TPO, ECB, EPDM, CSPE		
Protection class I		⊕
Approval marks		CE, CCA

Article No.:

149.224 UNIROOF E 1.6 inch, 230 V without plug
Included in scope of supply: Handle, with guide bar, 2 additional weights, storage case, operating instructions and DVD

Accessories UNIROOF E 1.6 inch

	148.731 1.6 inch grip-nozzle for TPO / FPO Single plies
	107.067 Additional weight for even more pressure
	115.057 Lifting device for simple moving to the next weld seam
	126.448 Storage case (included with purchase)
	147.836 Guide-bar, complete, adjustable
	103.605 Heating element 230 V / 2750 W

The storage case included in the scope of supply keeps the UNIROOF E 1.6 inch safe at all times and makes it convenient to carry.



VARIMAT V2: Fast and dependable.

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. The clearly laid out operating unit's "e-Drive" allows for the control of all relevant welding parameters.



Due to its slimline design, welding is possible even up close to edges.

Hot-air welder

VARIMAT V2



- 39 ft/min maximum welding speed (depending on material)
- Guide bar for ergonomic handling
- Maintenance free blower means lower service costs
- User-friendly display with "e-Drive" (press and turn control) to recall preset and saved welding settings
- Constant drive with regulated electronics

Technical Data

Voltage	V~	230
Power	W	4600
Temperature	°F	212 – 1148
Speed	ft/min	2.3 – 39
Air flow range	%	50 – 100
Width of welding nozzle	inch	1.6
Size (L x W x H)	inch	25 x 17 x 13
Weight	lbs	77
Conformity mark		CE
Approval mark		§
Certification scheme		CCA
Protection class I		⊕

Article No.:

138.982 VARIMAT V2, 230 V / 4600 W, without plug, storage case

Additional versions available upon request.

Accessories VARIMAT V2

	113.995	1.2 inch grip-nozzle for TPO / FPO single plies
	113.600	1.6 inch grip-nozzle for TPO / FPO single plies
	107.067	Additional weight for even more pressure
	139.048	Sturdy storage case 2.4 x 1.5 x 1.5 ft plywood, green *
	107.649	Replacement rolls
	132.429	2 welding plates for optimum welding start *
	138.817	Steel brush to clean nozzle *
	146.514	Solar profile kit
	143.162	Gentle pressure roller for difficult ground conditions
	151.530	Mirror welding kit, nozzle right, for special welding applications
	107.612	Heating elements 230 V / 4400 W

* Included with purchase

TRIAC DRIVE AT: The all-purpose hot-air tool.

The unique, semi-automatic welding tool. The flexible concept makes the TRIAC DRIVE AT an all-around tool that is universal in use.



Greater stability and reliability in device guidance thanks to the welding guide.

Semi-automatic hot-air tool

TRIAC DRIVE AT



- More consistent and up to three times faster than manual welding
- Unique semi-automatic welding tool
- Automatic welding in areas inaccessible to other tools
- With welding guide, inside nozzle or outside nozzle, the unit is suitable for all roofing applications and other areas of use

Technical Data


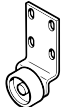


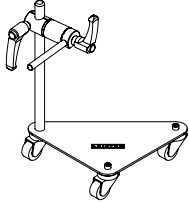
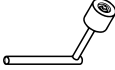


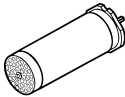
Voltage	V~	230
Power	W	1700
Temperature	°F	104 – 1202
Speed	ft/min	1.6 – 9.8
Size (L x W x H)	inch	11.8 x 9.0 x 15
Weight (with 3 m cable)	lbs	9
Conformity marking		CE
Protection class II		□

Article No.: Additional versions available upon request.

117.331	TRIAC DRIVE AT 230 V / 1700 W, without guiding help, nozzle inside, 1.2 inch, without grip, Euro plug
117.332	TRIAC DRIVE AT 230 V / 1700 W, with guiding help, nozzle inside, 1.2 inch, without grip, Euro plug
117.333	TRIAC DRIVE AT 230 V / 1700 W, with guiding help, nozzle inside, 1.2 inch, without grip, Euro plug, with extension for parapet welding
115.125	TRIAC DRIVE S without guiding help, 100-120 V 1600 W, nozzle outside, without grip, 1.6 inch
115.379	TRIAC DRIVE S without guiding help, 100-120 V 1600 W, nozzle inside, without grip, 1.6 inch

Additional versions available upon request.

Accessories TRIAC DRIVE AT

	115.274 0.5 inch pressure roller, steel 115.176 1.2 inch pressure roller, steel 115.712 1.6 inch pressure roller, steel 115.857 1.2 inch pressure roller, silicone 115.921 1.6 inch pressure roller, silicone
	115.276 Single supporting carrier, brass 138.570 Single supporting carrier, silicone
	Overlap welding nozzle, inside, push-fit 115.283 0.5 inch, with grip 115.279 1.2 inch, with grip 115.281 1.5 inch, with grip 115.699 0.5 inch, without grip 115.701 1.2 inch, without grip 115.703 1.5 inch, without grip
	Overlap welding nozzle, outside, push-fit 115.285 0.5 inch, with grip 115.278 1.2 inch, with grip 115.280 1.5 inch, with grip 115.700 1.2 inch, without grip 115.702 1.5 inch, without grip
	138.549 Guiding help for TRIAC DRIVE AT, for easy horizontal welding, e.g. for parapets. (Included with purchase: 1.6 inch overlap welding nozzle, inside, push-fit) 115.700 Overlap welding nozzle, outside, push-fit, 1.2 inch, without grip (included with purchase)
	142.422 Guiding help with extension for parapet
	142.413 Extension bar for extension on parapet
	108.985 Storage case (included with purchase)
	142.717 Heating element, 230 V / 1550 W, for TRIAC AT 100.702 Heating element, 120 V / 1550 W, for TRIAC S

Roofing

BITUMAT B2: The flameless.

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



Easy unit guidance and clean working with the BITUMAT B2.

Hot-air welder

BITUMAT B2



- Flameless welding of modified bitumen
- No shrinking of the insulation due to integrated air dam
- Uniform welding results
- High working speed
- Requires only one user to efficiently weld seams (torch welding requires two)

Technical Data


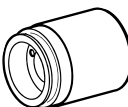

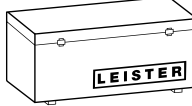
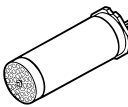
Voltage	V~	230
Power	W	6700
Temperature	°F	68 – 1148
Speed	ft/min	2.7 – 40
Air flow range	%	85 – 100
Welding nozzle width	inch	3.0 / 4.0
Size (L × W × H)	inch	3.0 / 4.0
Weight	lbs	89 (with cord)
Conformity mark		CE
Approval mark		§
Certification scheme		CCA
Protection class I		⊕

Article No.:

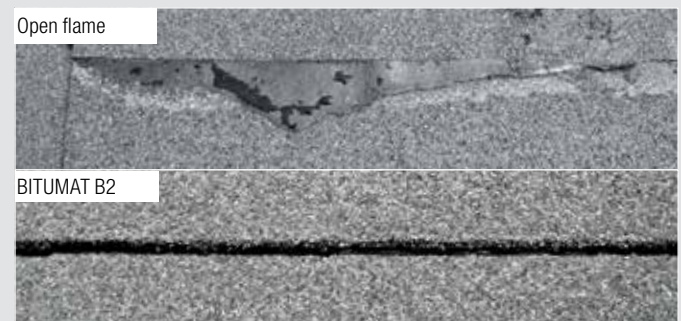
- 140.441 BITUMAT B2, 230V / 6700W, 3.0 inch, without plug
 140.439 BITUMAT B2, 230V / 6700W, 4.0 inch, without plug

Additional versions available upon request.

Accessories BITUMAT B2

	138.048	3.0 inch bitumen nozzle
	138.047	4.0 inch bitumen nozzle
	137.895	4.0 inch pressure roller with gap
	137.896	3.0 inch pressure roller with gap
	140.229	4.0 inch pressure roller without gap
	140.228	3.0 inch pressure roller without gap
	140.476	Lifting device
	140.489	Sturdy storage case, 28 × 18 × 18 inch (included with purchase)
	126.386	Heating elements 230 V / 6500 W

Considerably better welding results when compared with open flame tools. No damage to insulating material due to integrated air dam



COMET: Perfectly pre-fabricated.

The COMET works smoke-free and quietly. Thanks to the built-in guide system, the width of the weld zone is uniform – resulting in perfectly welded seams.



Hands-free welding due to integrated guiding plates.

Hot-wedge welder

COMET SUB-ROOF



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

Technical Data

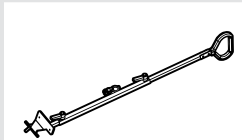
Voltage	V~	230
Power	W	700
Temperature	°F	68 – 788
Speed	ft/min	2.6 – 23
Pressure static	N	100 – 500
Material thickness	inch	Up to 32 mil
USB-memory-stick		optional
Size (L x W x H)	inch	14 x 10 x 9.5
Weight	lbs	17 (with 10 ft cable)
Conformity mark		CE
Approval mark		§
Certification scheme		CCA
Protection class I		⏚

Article No.:

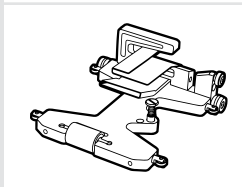
138.276 COMET SUB-ROOF, 230 V / 700 W, with EU-plug,
for sub-roof membranes, without fitting welding carriage,

Additional versions available upon request.

Accessories COMET SUB-ROOF



129.224 Guide-bar, complete, adjustable



110.694 Fitting welding carriage

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



The COMET SUB-ROOF is ideal for pre-fabricators.

EXAMO USB: The inspector.

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



Testing a weld seam with the EXAMO USB.

Testing instrument

EXAMO USB



- Handy, robust and reliable
- Testing of elongation, peak force, tear force, test speed and position
- Construction-site approved



Technical Data

Type		300F	600F
Voltage	V~	230	230
Power	W	200	200
Tensile load	N	4000	4000
Jaw spacing	inch	0.2 – 11.8	0.2 – 11.8
Range	inch	11.8	23.6
Test speed	inch/min	0.4 – 11.8	0.4 – 11.8
Sample thickness	mil	max. 276	max. 276
Sample width	inch	max. 1.6 (2.4 optional)	max. 1.6 (2.4 optional)
Size (L x W x H)	inch	29 x 11 x 7 (storage case)	41 x 11 x 7 (storage case)
Weight	lbs	30.8	38.6
Conformity mark		CE	CE
Approval mark		§	§
Protection class I		⊕	⊕

Article No.:

139.059 EXAMO 300F USB, 230 V / 200 W, incl. USB memory stick, Euro plug
139.060 EXAMO 600F USB, 230 V / 200 W, incl. USB memory stick, Euro plug

Accessory EXAMO USB

	134.832 Testing and calibration kit To test and calibrate your EXAMO USB
	115.905 USB memory stick



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

