





## Roofing

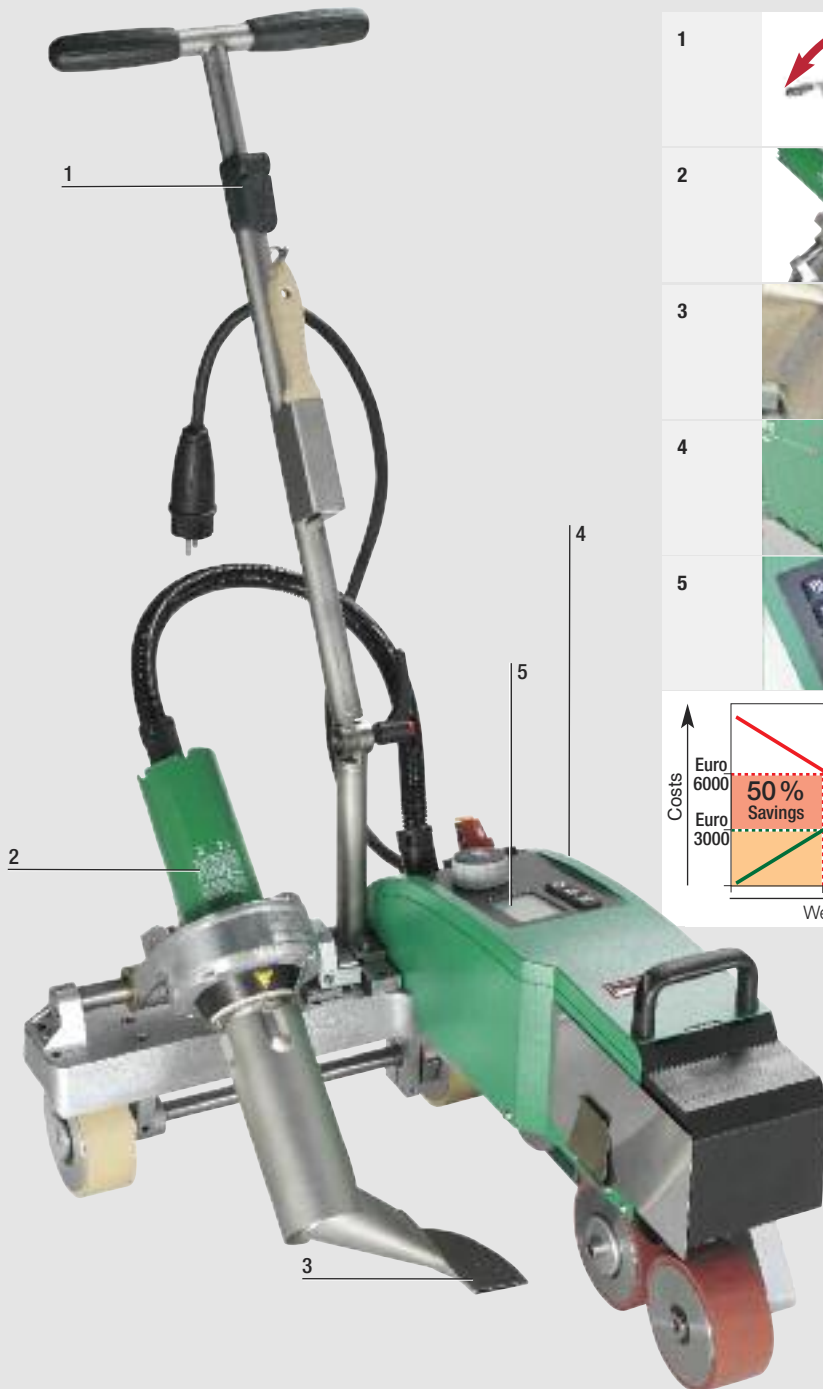
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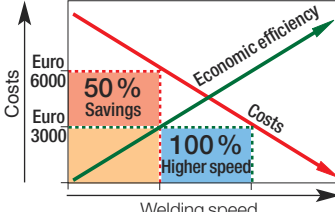
# VARIMAT V2: Fast and dependable.

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.

Hot air welder

## VARIMAT V2



1		<b>Ergonomic:</b> Height and angle of guide-bar can be adjusted easily.
2		<b>Maintenance-free:</b> High performance brushless blower motor, no brushes to change.
3		<b>High tech:</b> New welding nozzle with protected design for reliable welding quality.
4		<b>High speed:</b> New gear design allows speeds of up to 12 m/min.
5		<b>Intuitive:</b> Protected design. Easy-to-view display with "e-drive" and easy-to-store welding settings.
		<b>High potential savings:</b> Lower costs thanks to higher welding speed (cost calculations based on 20 000 m <sup>2</sup> at 5 m/min).
		Other welders: 2.5 m/min. VARIMAT V2: 5.0 m/min.



Due to its slim line design, welding is possible even in close to edge spaces.



The reliable partner for overlap welding.

## Hot air welder

### VARIMAT V2



- 12 m/min maximum welding speed (depending on material)
- Guide bar minimizes back strain
- No brushes to replace means lower service costs
- User-friendly display with "e-Drive" (press and turn control) to recall preset and saved welding settings

#### Technical Data








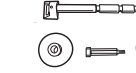


Voltage	V~	230	400
Power	W	4600	5700
Temperature	°C	20 – 620	
Speed	m/min	0.7 – 12	
Air flow range	%	50 – 100	
Width of welding nozzle	mm	40	
Size (L x W x H)	mm	640 x 430 x 330	
Weight	kg	35	
Conformity Marking		CE	
Approval mark		Ⓢ	
Certification scheme		CCA	
Protection class I		Ⓢ	

#### Article No.:

- 138.108 VARIMAT V2, 230 V / 4600 W, Euro plug  
 137.821 VARIMAT V2, 400 V / 5700 W, 16 A CCE plug

Additional versions available upon request.

## Accessories VARIMAT V2

	<b>113.995</b>	30 mm grip-nozzle
	<b>113.600</b>	40 mm grip-nozzle
	<b>107.067</b>	Additional weight for even more pressure
	<b>107.612</b>	Heating element 230 V / 4400 W
	<b>107.613</b>	400 V / 5500 W
	<b>139.048</b>	720 x 470 x 450 mm sturdy storage case multi-layer plate, green *
	<b>132.429</b>	2 welding plates for optimum welding start *
	<b>138.817</b>	Steel brush to clean nozzle *
	<b>110.714</b>	Maintenance set with size 5 screwdriver, size 2 and 8 pin wrenches and open-ended wrench size 17
	<b>146.514</b>	Solar Profil-Kit

\* Included with purchase

For TPO sheets the patented grip nozzle eliminates need for chemical pre-cleaning. (accessory)



## UNIROOF E: Small and strong.

The UNIROOF E is particularly suitable for edges, hard-to-reach areas and smaller roofs. The ideal addition to the VARIMAT V2.



The UNIROOF E climbs up even steep sloping roofs.

Hot air welder

### UNIROOF E



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

#### Technical Data







Current	A	10
Voltage	V~	230
Power	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 x 270 x 210
Weight	kg	12.8 (with cord)
Conformity Marking	CE	
Approval mark	S	
Certification scheme	CCA	
Protection class I	⊕	

#### Article No.:

134.447 UNIROOF E, 230 V / 2300 W, 30 mm, Euro plug

Additional versions available upon request.

### Accessories UNIROOF E

	<b>125.685</b>	30 mm grip nozzle, for roughening and welding of TPO single plies
	<b>107.067</b>	Additional weight for even more pressure
	<b>115.057</b>	Lifting device for simple moving to the next weld seam
	<b>103.604</b>	230 V / 2100 W heating element
	<b>126.448</b>	Storage case (included with purchase)
	<b>122.022</b>	Guide-bar, complete, adjustable



The storage case offers optimal protection. (included with purchase)

# TRIAC Drive PID: The handy one.

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



The TRIAC DRIVE PID allows even horizontal welding.

## Semi automatic welding machine

### TRIAC DRIVE PID



- 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






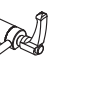





#### Technical Data

Voltage	V~	230
Power	W	1700
Temperature	°C	20 – 600
Speed	m/min	0.5 – 3
Width of welding nozzle	mm	40 / 30
Dimensions (L x W x H)	mm	300 x 230 x 380
Weight	kg	4.15 (with 3 m cord, without guide aid)
Conformity Marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		⊕

#### Article No.:

- 115.985 TRIAC DRIVE PID without guiding help, 230 V / 1700 W, outside, *without* grip, width of welding nozzle 40 mm, Euro plug
- 138.860 TRIAC DRIVE PID with guiding help, 230 V / 1700 W, inside, *without* grip, width of welding nozzle 30 mm, Euro plug
- 140.067 TRIAC DRIVE PID with guiding help, 230 V / 1700 W, inside, *without* grip, width of welding nozzle 30 mm, Euro plug, with extension for parapet
- Additional versions available upon request.

## Accessories TRIAC DRIVE PID

	<b>115.274</b>	12 mm pressure roller, steel
	<b>115.176</b>	30 mm pressure roller, steel
	<b>115.712</b>	40 mm pressure roller, steel
	<b>138.570</b>	12 mm pressure roller, silicon
	<b>115.857</b>	30 mm pressure roller, silicon
	<b>115.921</b>	40 mm pressure roller, silicon
	<b>115.276</b>	Single supporting carrier
	<b>115.281</b>	Overlap welding nozzle, inside, push-fit
	<b>115.279</b>	38 mm, <i>with</i> grip
	<b>115.703</b>	30 mm, <i>with</i> grip
	<b>115.701</b>	30 mm, <i>without</i> grip
	<b>115.280</b>	Overlap welding nozzle, outside, push-fit
	<b>115.278</b>	38 mm, <i>with</i> grip
	<b>115.702</b>	30 mm, <i>with</i> grip
	<b>115.700</b>	30 mm, <i>without</i> grip
	<b>100.296</b>	230 V / 1550 W heating element for TRIAC PID
	<b>138.549</b>	Guiding help for TRIAC DRIVE PID, for easy horizontal welding, e.g. for parapets:  Included with purchase: - two 12 mm pressure rollers, silicone, - one 30 mm pressure roller, silicone, - one 30 mm overlap welding nozzle, inside, <i>without</i> grip
	<b>142.422</b>	Guiding help with extension for parapet
	<b>142.413</b>	Extension bar for extension on parapet
	<b>108.985</b>	Storage case (included with purchase)

## X 84: Lightweight and agile.

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.



The X84 is easy to operate and produces precise results.

### Hot air welder

## X 84



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

#### Technical Data




Voltage	V~	230
Power	W	2300
Temperature	°C	20 – 600
Speed	m/min	0.5 – 3.5
Welding pressure	N	250
Pressure static	Pa	Level 2: 1500 (15 mbar) Level 3: 2100 (21 mbar)
Width of welding nozzle	mm	30
Dimensions (L x W x H)	mm	300 x 310 x 250
Weight	kg	6.1 (with 3 m cord)
Conformity Marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class II		Ⓜ

#### Article No.:

107.484 X 84 with guide-bar, 230 V / 2300 W, with CH plug

Additional versions available upon request.

## Accessories X 84

	<b>129.224</b>	Guide-bar, complete, adjustable
	<b>103.678</b>	230 V / 2100 W heating element
	<b>126.448</b>	Storage case (included with purchase)



The X 84 is the ideal machine when it comes to welding sub-roof membranes.

## 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 welding process is 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	400
Power	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 x W x H)	mm	690 x 490 x 330	
Weight	kg	40 (with cord)	
Conformity Marking		CE	
Approval mark		S	
Certification scheme		CCA	
Protection class I		⊕	

#### Article No.:

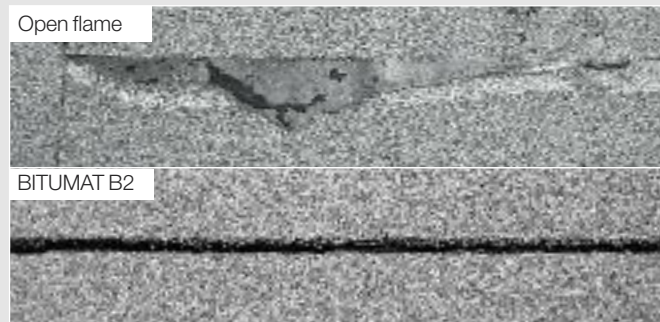
- 140.438 BITUMAT B2, 400 V / 6700 W, 75 mm, 16 A CEE plug
- 140.437 BITUMAT B2, 400 V / 6700 W, 100 mm, 16 A CEE plug
- 140.436 BITUMAT B2, 230 V / 6700 W, 75 mm, 32 A CEE plug
- 138.386 BITUMAT B2, 230 V / 6700 W, 100 mm, 32 A CEE plug

Additional versions available upon request.

### Accessories BITUMAT B2

	<b>138.048</b>	75 mm bitumen nozzle
	<b>138.047</b>	100 mm bitumen nozzle
	<b>137.895</b>	100 mm pressure roller with gap
	<b>137.896</b>	75 mm pressure roller with gap
	<b>140.229</b>	100 mm pressure roller <i>without gap</i>
	<b>140.228</b>	75 mm pressure roller <i>without gap</i>
	<b>140.476</b>	Lifting device
	<b>140.489</b>	750 x 555 x 450 mm sturdy storage case, (included with purchase)
	<b>126.594</b>	Heating elements, 400 V / 6500 W
	<b>126.386</b>	230 V / 6500 W

Considerably better welding results when compared with open flame tools. No shrinking of insulation because of air dam belt.





## 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 flamelessly welded edges. It is especially suitable for pre-fabrication of sub-roof membranes.



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

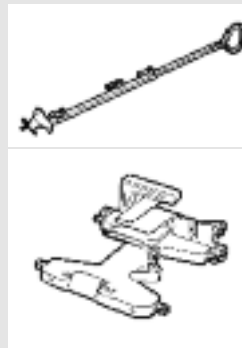
Voltage	V~	230
Power	W	700
Temperature	°C	20 – 420
Speed	m/min	0.8 – 6
Pressure static	N	100 – 500
Material thickness	mm	Up to 0.8 mm
USB-memory-stick		Optional
Dimensions (L x W x H)	mm	355 x 250 x 245
Weight	kg	7.7 (with 3 m cable)
Conformity Marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓛ

#### Article No.:

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

Additional versions available upon request.

### Accessories COMET SUB-ROOF



**129.224** Guide-bar, complete, adjustable

**110.694** Fitting welding carriage

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.



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



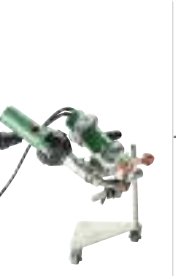





VARIMAT V2: The perfect welder for large areas.



Flameless modified bitumen welding with the BITUMAT B2.

## Overview Roofing Welders

						
<b>Materials</b>	Plastic single plies					Modified bitumen
<b>Type of welding machine</b>	VARIMAT V2	UNIROOF E	TRIAC DRIVE PID with guiding help	X84	COMET SUB-ROOF	BITUMAT B2
<b>Main application</b>	Large areas over 600 Yards <sup>2</sup>	Small areas, parapets under 600 Yards <sup>2</sup>	Details, pitched roofs	For sub-roof membranes	For pre-fabricators	Large areas
<b>Roof construction</b>						
Flat roof	✓✓✓	✓✓✓	✓✓✓	✓		✓✓✓
Sloping roof	✓	✓✓	✓✓	✓✓✓	✓✓	✓
Basic weld seams	✓✓✓	✓	✓	✓✓✓	✓✓✓	✓✓✓
Detail work	✓	✓✓✓	✓✓✓	✓	✓	✓
Special features	Operation with »e-Drive«	Up to 30° incline	Horizontal welding	Constant joining pressure	Indoor applications	No open flame
<b>Fastening</b>						
Mechanically fastened, hard substrate	X	X	X			X
Loosely laid, soft substrate				X	X	
<b>Parapet spacing in mm</b>	110	190 **	40	135	220	200
<b>Electronics</b>						
Controlled (close loop system)	X	X	X (blower)	X	X	
Controlled (open loop)			X (drive)			X
<b>Speed m/min.</b>						
Drive	0.7–12	1–5	0.5–3	0.5–3.5	0.8–6	0.8–12
Welding (depending on material)	4–8	2–3	1.5–3	1.5–2.5	3–6	3–6
<b>Weight kg</b>	35	12.8	4	6	7.7	40
<b>Welding technology</b>	Hot air*	Hot air	Hot air	Hot air	Hot-wedge	Hot air

✓✓✓ = Highly suitable, ✓✓ = Suitable, ✓ = Limited suitability

\* Brushless blower \*\* No gap necessary for laminated sheets

## 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	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)
Size (L x W x H)	mm	750 x 270 x 190 (storage case)	1050 x 270 x 190 (storage case)
Weight	kg	14	17.5
Conformity Marking		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



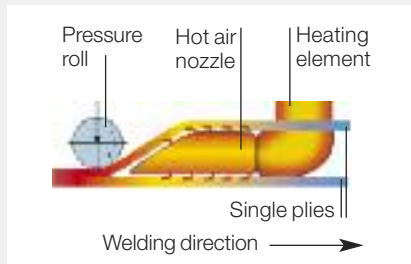
- 134.832** Testing and calibration kit  
 To test and calibrate your EXAMO USB



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

## Welding technologies Roofing welders

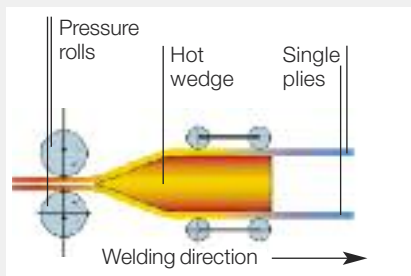
### Hot air welding



#### Heating by hot air

- VARIMAT V2
- UNIROOF E
- TRIAC DRIVE PID
- X 84
- BITUMAT B2





### Hotwedge welding



#### Heating by electrically heated wedge

- COMET SUB-ROOF

## Hot air tools for Roofing

	<b>TRIAC S</b>	<b>11</b>
	Accessories	16 / 17 / 18
	<b>TRIAC AT</b>	<b>12 / 13</b>
	Accessories	16 / 17 / 18
	<b>HOT JET S</b>	<b>20</b>
	Accessories	20 / 21
	<b>ELECTRON</b>	<b>24</b>
	Accessories	24 / 25
<b>General Roofing accessories</b>		<b>33</b>



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