

Roofing

Hot air automatic welding machines and hand-tools for roofing membranes made of PVC-P, ECB, EPDM, CSPE, TPO and modified bitumen

Hot air welding machines

VARIMAT



CE



VARIMAT being used to weld modified bitumen membranes.

- Wrinkling-free welding of all roofing materials
- Even higher welding speed
- Temperature and welding speed electronically controlled, therefore independent of voltage fluctuations, variable ambient temperature and uneven ground

- Independent suspension pressure roller (patented) guarantees even distribution of pressure also on uneven ground
- Digital display of SET and ACTUAL value of welding speed and temperature
- Trouble-free welding also for homogeneous and thin roofing membranes

Technical Data

Overlap welding of PVC-P-, ECB-, EPDM-, CSPE- and TPO-roofing membranes.
Welding seam width 40 mm.
Welding speed up to 5 m/min. depending on material.

Type	VARIMAT	
Voltage	V~	230, 400
Power consumption	W	4600, 5700
Frequency	Hz	50 / 60
Temperature	°C	20 – 620 steplessly controlled
Drive	m/min.	0.5 – 5 steplessly controlled
Welding pressure	N	190
Air flow	%	50 – 100 adjustable
Pressure stat.	Pa	5000 (50 mbar)
Emission level	L _{pA} (dB)	67
Size L×W×H	mm	640 × 430 × 330
Weight	kg	30 with 5 m cord

Approval mark:



Overlap welding of modified bitumen membranes
Welding seam width 80 mm, 100 mm, 120 mm
Welding speed 2 – 4 m/min.

Type	VARIMAT	
Voltage	V~	230, 400
Power consumption	W	4600, 6300
Frequency	Hz	50 / 60
Temperature	°C	20 – 620 steplessly controlled
Drive	m/min.	0.5 – 5 steplessly controlled
Welding pressure	N	190
Air flow	%	50 – 100 adjustable
Pressure stat.	Pa	5000 (50 mbar)
Emission level	L _{pA} (dB)	67
Size L×W×H	mm	640 × 430 × 330
Weight	kg	30 with 5 m cord

Approval mark:



LEISTER®

X84 ☐



X84, being used to weld a under-roof liner on a high pitched roof. The X84, weighing only 5.9 kg, copes any incline at the same speed.



Technical Data

Welding speed 2–3.5 m/min. depending on material.
Welding seam width 30 mm.

Type	X84		
Voltage	V~	120, 230	
Power consumption	W	1900, 2300/2900	
Frequency	Hz	50 / 60	
Temperature	°C	20–600,	steplessly controlled
Air flow	l/min.	Level 2: 150	Level 3: 190
Pressure stat.	Pa	Level 2: 1500 (15 mbar)	Level 3: 2100 (21 mbar)
Drive speed	m/min.	0.5 to 3.5,	steplessly controlled
Welding pressure	N	250	
Emission level	L _{PA} (dB)	67	
Size L×W×H	mm	300 × 310 × 250	
Weight	kg	4.7	

Approval mark:



Hot air blower

ELECTRON ☐

Powerful but still small



ELECTRON hot air blower with wide slot nozzle being used to dry a joint before sealing. The ELECTRON is suitable for the forming of roof drains as well as the activation of adhesives, defrosting, shrinking and welding of modified bitumen.

Technical Data

Type	ELECTRON		
Voltage	V~	42, 120, 200, 230	
Power consumption	W	1060, 2700, 3000, 2300/3400	
Frequency	Hz	50/60	
Temperature	°C	20 – 650,	steplessly controlled
Air flow	l/min.	max. 500, manual air slide	
Pressure stat.	Pa	3000 (30 mbar)	
Emission level	L _{PA} (dB)	65	
Size	mm	320 × 95, handle ø 64	
Weight	kg	1.5 with 3 m cord	

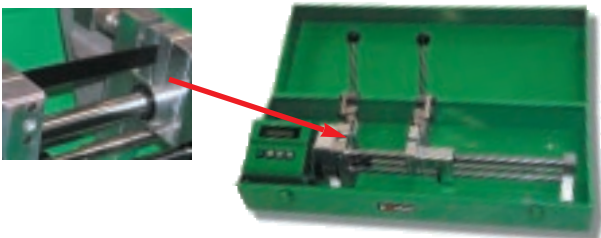
Approval mark:



Tensiometer

EXAMO

For shearing, peeling and tensile tests for proof of welding seam quality



- handy, robust and light
- designed for field application
- digital display of process values

Technical Data

Type		EXAMO 300 F	EXAMO 600F
Voltage	V~	120, 230	120, 230
Power consumption	W	200	200
Max. tensile load	N	4000	3000
Load measure range	N	0 – 4000	0 – 3000
Min. jaw spacing	mm	5	5
Max. jaw spacing	mm	300	600
Max. Range	mm	300	600
Testing speed	mm/min.	10 – 300	10 – 300
Max. sample thickness	mm	7	7
Max. sample width	mm	40 (60 optional)	40 (60 optional)
Memory-Card		optional	optional
Dimension of storage case L×W×H	mm	750 × 270 × 190	1050 × 270 × 190
Weight	kg	14	17.5

Digital display

- Max. tensile load, F_{Peak}
- Elongation % at F_{Peak}
- Tearing force, F_{Tear}
- Elongation % at F_{Tear}
- Test speed
- Position

Approval mark:



Hand welding tools

TRIAC PID

The welding tool for quality assurance




TRIAC S


The reliable hot air tool



Technical Data

Type	TRIAC PID	
Voltage	V~	42, 100, 120, 200, 230
Power consumption	W	1000, 1400, 1600, 1400, 1600
Frequency	Hz	50/60
Temperature	°C	50 – 600, steplessly controlled
Air flow	l/min.	max. 230
Pressure stat.	Pa	ca. 3000 (30 mbar), after 24 h operating time
Emission level	L _{pA} (dB)	65
Size	mm	ø 100 × 340, handle ø 56
Weight	kg	1.4 with 3 m cord
Approval mark:		CCA certified

Technical Data

Type	TRIAC S	
Voltage	V~	42, 100, 120, 200, 230
Power consumption	W	1000, 1400, 1600, 1400, 1600
Frequency	Hz	50/60
Temperature	°C	20 – 700, steplessly controlled
Air flow	l/min.	max. 230
Pressure stat.	Pa	ca. 3000 (30 mbar), after 24 h operating time
Emission level	L _{pA} (dB)	65
Size	mm	ø 100 × 330, handle ø 56
Weight	kg	1.3 with 3 m cord
Approval mark:		CCA certified



TRIAC PID with 20 mm wide slot nozzle and pressure roller being used to weld TPO roofing membranes.

- Effortless welding thanks to light weight and smaller handle
- Reproducible welding results thanks to digital temperature display of SET and ACTUAL value
- Adaptor tube with heat protection
- Stepless electronic temperature control, therefore independent of voltage fluctuations and varying ambient temperature (PID control)
- Electronic heating element protection and automatic shut-off of the motor at minimal carbon level
- Multiple replace of carbon brushes possible, therefore suitable for continuous operation


HOT JET S

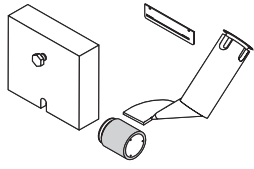
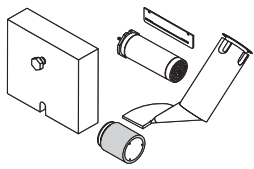

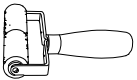
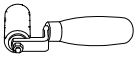
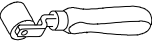

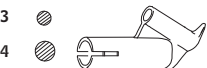
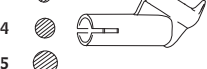
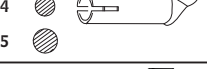
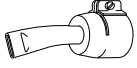

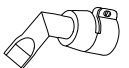
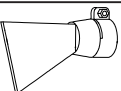
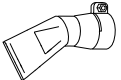
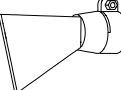
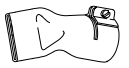
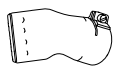
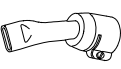

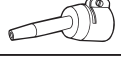


The lightest compact welding tool



HOT JET S being used to weld PVC-roofing membranes to a skylight. Only 580 g light, the hand-tool is outstanding for welding corners and other detail work.

Technical Data

Type	HOT JET S	
Voltage	V~	100, 120, 230
Power consumption	W	460, 460, 460
Frequency	Hz	50/60
Temperature	°C	20 – 600, steplessly controlled
Air flow	l/min.	20 – 80, steplessly adjustable
Pressure stat.	Pa	max. 1600 (16 mbar)
Emission level	L _{pA} (dB)	59
Size	mm	235 × 70, handle ø 40
Weight	g	580 with 3 m cord
Approval mark:		CCA certified

Order Number	Illustration not to scale	
108.923		Welding unit bitumen-kit 80mm, 230V~ for Varimat
108.924		Welding unit bitumen-kit 100mm, 230V~ for Varimat
108.925		Welding unit bitumen-kit 120mm, 230V~ for Varimat
108.926		Welding unit bitumen-kit 80mm, 400V~/6100W for Varimat
108.927		Welding unit bitumen-kit 100mm, 400V~/6100W for Varimat
108.928		Welding unit bitumen-kit 120mm, 400V~/6100W for Varimat
106.972		Pressure roller with ball bearings (brass)
106.974		Pressure roller 80mm (silicon)
106.975		One-arm pressure roller 40mm with ball bearings (silicon)
106.976		Pressure roller 28mm (PTFE)
106.977		Pressure roller 28mm (silicon)
106.989	  	Speed welding nozzle 3mm push-fit on tubular nozzle ø 5mm
106.990		Speed welding nozzle 4mm push-fit on tubular nozzle ø 5mm
106.991		Speed welding nozzle 5mm push-fit on tubular nozzle ø 5mm
107.123		Wide slot nozzle 20mm push-fit on Triac PID/Triac S
107.124		Angled nozzle 20mm, 90° push-fit on Triac PID/Triac S
107.125		Angled nozzle 20mm, 60° push-fit on Triac PID/Triac S
107.129		Wide slot nozzle 60mm push-fit on Triac PID/Triac S
107.130		Wide slot nozzle 40mm, 60° bent push-fit on Triac PID/Triac S
107.131		Wide slot nozzle 80mm push-fit on Triac PID/Triac S
107.132		Wide slot nozzle 40mm push-fit on Triac PID/Triac S
107.133		Wide slot nozzle 40mm, perforated push-fit on Triac PID/Triac S
107.142		Wide slot nozzle 20mm push-fit on Hot Jet S
107.144		Tubular nozzle ø 5mm push-fit on Hot Jet S
100.303		Tubular nozzle ø 5mm push-fit on Triac PID/Triac S
107.258		Wide slot nozzle 70 x 10mm push-fit on Electron
107.266		Wide slot nozzle 75 x 2mm push-fit on Electron

Technical data are subject to change without notice



LEISTER Process Technologies
Riedstrasse
CH-6060 Sarnen / Schweiz

Tel. + 41 - 41 662 74 74
Fax + 41 - 41 662 74 16
www.leister.com e-mail leister@leister.com

ISO 9001:2000