

**LEISTER**

PLASTIC WELDING

Weld industrial  
fabrics with  
Leister.

Problem-free  
and precise.





## **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 50 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, therefore, we have established a dense network of service centers throughout the world - guaranteeing excellent service anytime and anywhere.

### **Plastic welding**

We have remained the worldwide market leader in this field for decades. The performance and reliability of our products make Leister the first choice for welding machines for plastic processing. Leister products are used in roof sealing systems, floor coverings, plastic sheeting, earthworks, hydraulic and tunnel engineering, process equipment manufacturing and for vehicle repair.

### **Process heat**

Hot air is increasingly deployed in industrial processes, whether for activation, heating, curing, melting, shrinking, welding, sterilization, drying or warming. Certainly, Leister is the preferred choice. Our customers profit from our extensive engineering knowledge and our advice in the conceptual design of hot-air applications.

### **Laser systems**

Our innovative solutions for precision plastic welding open up new manufacturing methods. Laser systems are used in automobile production, medical and sensor assembly, microsystems technology or for soldering electronic components. As the technological leader, Leister possesses the knowledge, methods, and patented concepts, which are perfectly suited to fulfil specific customer requirements.

### **Microsystems**

In today's world the smallest structures play a huge roll. To keep our customers ahead of the field in the future, we are developing and producing micromechanical sensors and micro-optical components in our clean rooms today.

Leister Process Technologies is an **ISO 9001:2000** certified enterprise.

# Leister brings industrial fabrics into top shape.

Whether it is PVC-P, ECB, CSPE, EPDM or PVDF coated fabrics, foils or membranes: Leister welds all types of industrial fabrics using very precise and simple-to-operate welding machines. Leister welds with hot air or hot wedge – a very safe, reliable and economical process. We complement our line of first class quality products with a complete line of accessories and valuable expert advice. As the worldwide market leader in the hot air plastic welding industry, Leister knows precisely what professionals need to succeed.

## Hot air welding machine

### UNIPLAN E

For efficient hot-air welding of industrial fabrics the UNIPLAN E is ideal. A guide roller keeps the tool precisely on course. Its digital display shows set and actual values of temperature and welding speed. The heating is electronically controlled.



- Small, light and handy
- Digital display
- Steplessly controlled air flow
- Automatic start
- High welding speed
- Wrinkle-free welding
- Integrated lifting mechanism

## Wedge welding machine

### UNIPLAN WEDGE

Silent and smoke-free thanks to the heating wedge: the new UNIPLAN WEDGE. The automatic drive sensors, and the optional laser guide, make welding particularly comfortable and precise.



- Low noise
- High welding speed
- Portable and light
- Easy, comfortable operation
- Digital display of welding speed and temperature
- Wrinkle-free welding
- Fast and simple assembly of the unwind construction for welding acrylic tapes
- Integrated lifting mechanism

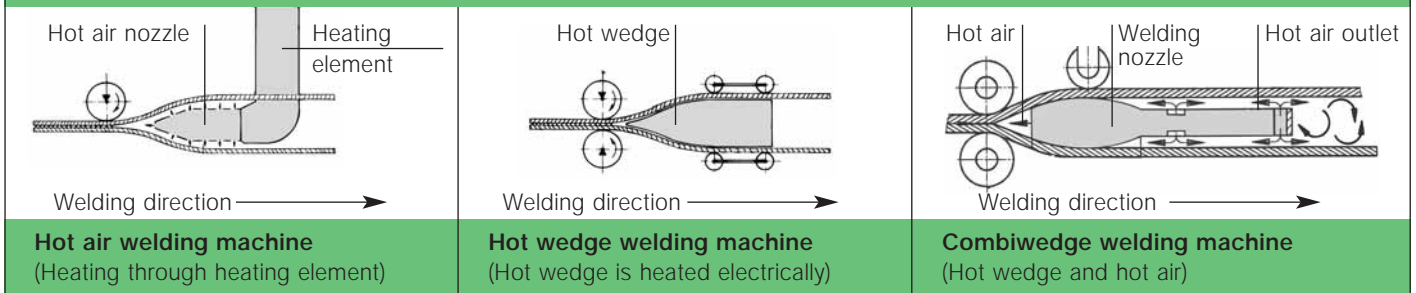
#### Technical Data

Voltage	V~	100	120	230
Power consumption	W	1500	1800	2100
Frequency	Hz	50 / 60		
Temperature	°C	20 – 620		
Speed	m/min	1.0 – 7.5		
Air flow range	%	50 – 100		
Air flow (20°C)	l/min	300		
Noise emission level L <sub>pA</sub>	dB	65		
Welding seam width	mm	20 or 30		
Size (L × W × H)	mm	420 × 270 × 210		
Weight	kg	11.5 (with 3 m cord)		
Marking of conformity	CE			
Approval mark	S			
Certification scheme	CCA			
Protection class I	⊕			

#### Technical Data

Voltage	V~	100	120	230
Power consumption	W	900		
Frequency	Hz	50 / 60		
Temperature	°C	20 – 420		
Speed	m/min	1.0 – 7.5		
Noise emission level L <sub>pA</sub>	dB	50		
Welding seam width	mm	20 or 30		
Size (L × W × H)	mm	420 × 270 × 210		
Weight	kg	11.5 (with 3 m cord)		
Marking of conformity	CE			
Approval mark	S			
Certification scheme	CCA			
Protection class I	⊕			

Leister is the only manufacturer to offer all possible types of welding systems worldwide:



## Hot air welding machine

### UNIMAT OVERLAP

The microprocessor-controlled, high-performance machine UNIMAT OVERLAP ensures extrafast and economical welding. Separate versions for welding membranes or coated woven materials.



- High welding speed
- User-friendly
- Digital display of set and actual values of welding speed, temperature and air flow
- No corrective action required thanks to the new guide roller
- Steplessly controlled air flow
- Wrinkle-free welding
- Automatic start
- Integrated liftig mechanism

#### Technical Data

Voltage	V~	230
Power consumption	W	3680
Frequency	Hz	50 / 60
Temperature	°C	20 – 620
Speed	m/min	1.5 – 12
Air flow range	%	50 – 100
Air flow (20°C)	l/min	500
Pressure static	Pa	max. 5000 (50 mbar)
Noise emission level $L_{pA}$	dB	70
Welding seam width	mm	20 or 40
Size (L x W x H)	mm	600 x 430 x 310
Weight	kg	23.0 (with 5 m cord)
Marking of conformity	CE	
Approval mark	E	
Certification scheme	CCA	
Protection class I	I	

## Hot air welding machine

### UNIMAT TAPE

The microprocessor-controlled, high-performance machine UNIMAT TAPE ensures extrafast and economical tape welding of industrial fabrics or coated woven materials.



- High welding speed
- User-friendly
- Digital display of set and actual values of welding speed, temperature and air flow
- No corrective action required thanks to the new guide roller
- Steplessly controlled air flow
- Automatic start
- With tape unwind construction
- Simple rotatable handle

#### Technical Data

Voltage	V~	230
Power consumption	W	3680
Frequency	Hz	50 / 60
Temperature	°C	20 – 620
Speed	m/min	1.5 – 12
Air flow range	%	50 – 100
Air flow (20°C)	l/min	500
Pressure static	Pa	max. 5000 (50 mbar)
Noise emission level $L_{pA}$	dB	70
Tape width	mm	40 or 50
Size (L x W x H)	mm	600 x 415 x 310
Weight	kg	28.0 (with 5 m cord and trolley attachment)
Marking of conformity	CE	
Approval mark	E	
Certification scheme	CCA	
Protection class I	I	



A 40 mm reinforcement tape is welded with UNIMAT TAPE onto a PVC sheet.



Welding tie downs with TRIAC S.



Repair welding of a truck tarpaulin using TRIAC PID with wide slot nozzle and pressure roller.



Overlap welding of a billboard with UNIPLAN E.

## Hand tool

### TRIAC PID / TRIAC S

Thanks to micro-processor controlled temperature and electronic monitoring. The preferred hand tool for welding with high quality.



- Reproducible results thanks to digital display of set and actual temperature (TRIAC PID)
- Welding results independent of voltage fluctuations and ambient temperature (TRIAC PID)
- Adaptor tube with heat protection
- Electronic heating element protection
- Motor shut-off at minimal carbon level
- Suitable for continuous operation
- Multiple replacement of carbon brushes possible

Technical Data						
Voltage	V~	42	100	120	200	230
Power consumption	W	1000	1400	1600	1400	1600
Frequency	Hz	50 / 60				
Temperature	°C	50 – 600				
Air flow (20°C)	l/min	230				
Pressure static	Pa	ca. 3000 (30 mbar)				
Noise emission level L <sub>pA</sub>	dB	65				
Size (L × Ø)	mm	340 × 90, handle Ø 56				
Weight	kg	1.4 (with 3 m cord)				
Marking of conformity		CE				
Approval mark		S				
Certification scheme		CCA				
Protection class II		□				

## Hand tool

### HOT JET S

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


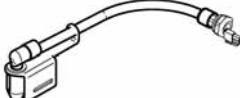
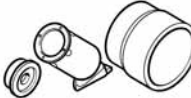

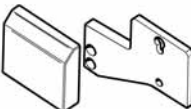
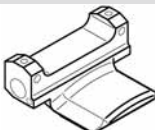

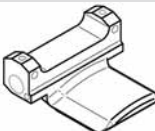
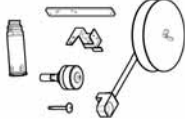
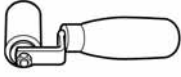












- Worldwide the smallest hand tool
- Electronic steplessly controlled temperature
- Electronic steplessly controlled air flow
- Electronic heating element protection
- Low noise
- Integrated flexible tool stand

Technical Data				
Voltage	V~	100	120	230
Power consumption	W	460	460	460
Frequency	Hz	50 / 60		
Temperature	°C	20 – 600		
Air flow (20°C)	l/min	20 – 80		
Pressure static	Pa	max. 1600 (16 mbar)		
Noise emission level L <sub>pA</sub>	dB	59		
Size (L × Ø)	mm	235 × 70, handle Ø 40		
Weight	kg	0.6 (with 3 m cord)		
Marking of conformity		CE		
Approval mark		S		
Certification scheme		CCA		
Protection class II		□		

There hardly exists an application for which a Leister tool cannot be used:  
 truck covers – tents – billboards – swimming pools – biotopes – awnings –  
 boat covers – pool covers – industrial curtains – covers for agriculture and  
 construction etc.

## Accessories for Industrial Fabrics

115.065		Overlap welding unit 20 mm  > <b>UNIPLAN E</b>	116.506		Laserguide  > <b>UNIPLAN WEDGE</b>
115.066		Overlap welding unit 30 mm  > <b>UNIPLAN E</b>	116.231		Trolley attachment 22 mm  > <b>UNIPLAN WEDGE</b>
115.067		Weight with holder  > <b>UNIPLAN E</b>	116.161		Spare hot-wedge 20 mm  > <b>UNIPLAN WEDGE</b>
115.839		Handle with holder and screws  > <b>UNIPLAN E</b>	116.162		Spare hot-wedge 30 mm  > <b>UNIPLAN WEDGE</b>
115.014 115.015		Retrofit kit TAPE 40 mm Retrofit kit TAPE 50 mm from OVERLAP to TAPE  > <b>UNIMAT TAPE</b>			One-arm pressure roller 40 mm, with ball bearings (silicon)
115.184 115.185		Retrofit kit OVERLAP 20 mm Retrofit kit OVERLAP 40 mm from TAPE to OVERLAP  > <b>UNIMAT OVERLAP</b>	106.977		Pressure roller 28 mm (silicon)
115.192		Retrofit kit TAPE from 50 mm to 40 mm  > <b>UNIMAT TAPE</b>			Customs seal roller
115.193		Retrofit kit TAPE from 40 mm to 50 mm  > <b>UNIMAT TAPE</b>	107.123		Wide slot nozzle 20 mm, push-fit  > <b>TRIAC PID</b> > <b>TRIAC S</b>
114.510		Overlap welding nozzle 20 mm  > <b>UNIMAT</b>	107.132		Wide slot nozzle 40 mm, push-fit  > <b>TRIAC PID</b> > <b>TRIAC S</b>
114.498		Overlap welding nozzle 40 mm  > <b>UNIMAT</b>	107.142		Wide slot nozzle 20 mm, push-fit  > <b>HOT JET S</b>

Technical data are subject to change without notice.  
 Nozzles are not included to the hand tools.



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