



PLASTIC WELDING

General Catalog Plastic Welding 2014/15

The only choice for professionals

Version 4.0



We know how.



Leister Technologies AG, Corporate Center, Kaegiswil, Switzerland



Leister Technologies AG, factory, Samen, Switzerland



Leister Technologies AG, factory, Kaegiswil, Switzerland



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Leister Technologies GmbH,
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Leister Technologies S.r.l.
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Leister Technologies LLC
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Leister Technologies KK,
Yokohama, Japan



Leister Technologies India Pvt
Chennai, India

Leister delivers performance.

For over 60 years, Leister has been the worldwide leader in the field of plastic welding and industrial hot-air applications. In addition we also offer innovative and effective lasersystems and microsystems. Leister is proud to develop and produce all products in Switzerland – so you can always rely on the proverbial Swiss made quality.

Over 98 percent of our products are exported. With an established network of 130 sales and service centers all over the globe, you will find a Leister partner guaranteed. We are local worldwide.



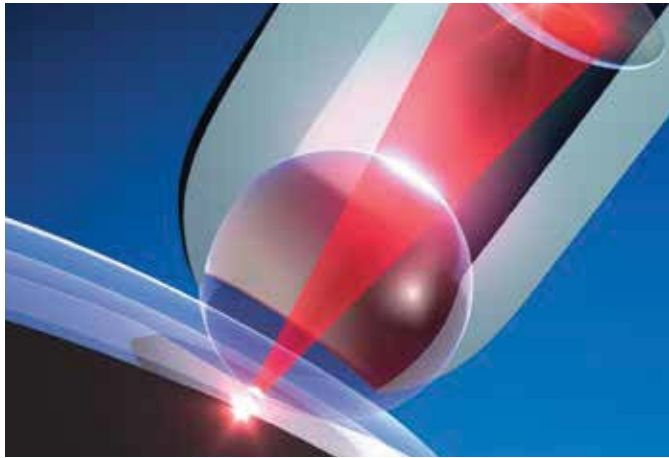
LEISTER
PLASTIC WELDING

For decades now, Leister has been the worldwide market leader. The performance and reliability of our products makes Leister the first choice. Our tools are used in roofing, billboards, tarpaulins, civil engineering, tunneling, landfills, plastic fabrication, flooring, and shrinking to name a few.



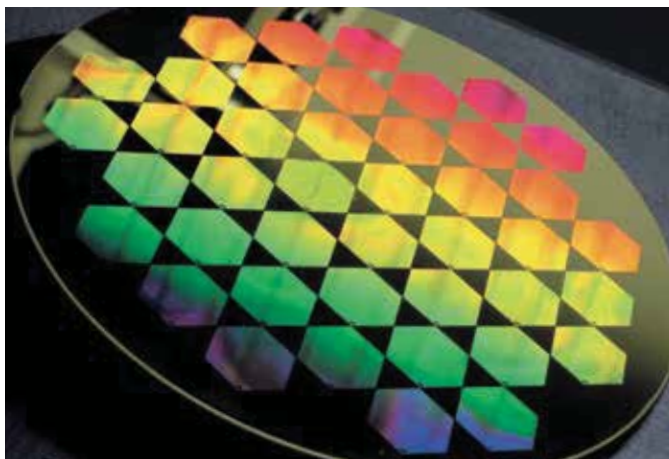
LEISTER
PROCESS HEAT

Hot-air is increasingly deployed in industrial processes. Typical applications include activating, heating, curing, melting, shrinking, welding, sterilizing, drying and warming to name a few. Leister customers profit from our extensive engineering knowledge and benefit from our recommendations during the conceptual design of hot-air applications.



LEISTER
LASER PLASTIC WELDING

Leister's innovative and patented laser bonding solutions provide alternative production processes in automotive, medical, sensor, electronics and textile manufacturing as well as microsystems technology. Our clean, precise and non-invasive laser technology can also be applied to process heat applications.



axetris
Company of the Leister Group

Along with our experienced engineering team, advanced MEMS foundry capabilities and total quality management approach, Axetris works to ensure our customers remain ahead of their field, now and in the future. We continue to actively develop and produce next-generation sensors and optical components in our cleanroom today.

Plastic welding with Leister

Leister Technologies AG provides the appropriate high quality welding device for all sectors of the plastics processing industry. Our tools are used in sealing systems on roofs, plastic sheeting, floor coverings, in earthworks, hydraulic and tunnel engineering, equipment manufacturing and vehicle repair. However demanding the task, we provide an applicable solution.

Research and development

With years of experience in plastic processing and industrial processes we are the ideal partner to work your plastic application. We have dedicated ourselves to constantly develop new and to persistently improve existing products. We strive to provide our customers with outstanding quality, reliability, performance and cost-efficient products.

Quality management

As an innovative company, Leister commits to transparent and consistent quality management. Leister Technologies AG is certified to comply with the ISO 9001 quality standards. All processes are regularly audited and improved to comply with all quality-relevant criteria; therefore, our products enjoy a reputation of providing reliable service even after years of use under adverse conditions.

Testing and certification

Our products are designed and developed to comply with nationally and internationally recognized standards. This includes both product-specific standards – such as ISO, IEC, EN or UL standards – as well as application-specific standards. For our client's protection, tests are carried out by accredited and independent test institutes. The products are then certified and qualified to carry the marking of conformity.

Application and laboratory testing

Our team of experts will assist you in choosing the right equipment for your application process. Running test series on your applications will help optimize processes. The equipment of the application laboratory allows comprehensive testing for process analysis and documentation of the results.

More than 130 Sales and Service Centers in over 100 countries

We believe that the basis for customer satisfaction lies within the quality of our products and the smooth running global service network. A close network of more than 130 sales and service centers in more than 100 countries ensures competent and responsive service. Distributors and their staff are trained and certified by Leister on a regular basis; therefore, Leister know-how is locally available to you at all times.







WELDPLAST S1

<p>Roofing</p> <p>Billboards / Tarpaulins</p> <p>Civil Engineering / Tunneling / Landfills</p> <p>Plastic Fabrication</p> <p>Flooring / Interior Decoration</p>	<p>Hot-air hand tools</p> <p>Blowers</p> <p>General accessories</p> <p>Welding rods</p>	<p>9 – 31</p>
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Hot-Air Hand Tools



Roofing



Technical Textiles & Industrial Fabrics



Civil Engineering / Tunneling / Landfills



Plastic Fabrication



Flooring / Interior Decoration















Hot-Air Hand Tools

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Product overview Hot-air hand tools

								
Type	TRIAC ST	TRIAC AT	ELECTRON ST	HOT JET S	GHIBLI	SONORA S1	HOTWIND PREMIUM	FORTE S3
Voltage V~	120	120	120 / 230	120	120	120	120	3 × 230 / 3 × 400
Max. power W	1600	1600	2400 / 3400	460	1500	1500	2300	10 000
Temperature °F	104 – 1292	104 – 1148	104 – 1202	68 – 1112	68 – 1112	176 – 1202	68 – 1202	68 – 1202
Size inch (L × Ø)	13.3 × 3.5	13 × 3.5	13 × 3.5	9.2 × 2.7	7.7 × 3.3 × 6.3	9.1 × 7.9	9.1 × 4.2	15.3 × 5.2
Handle (Ø)	2.2	2.2	2.2	1.6	2.2		7	8.4
Weight lbs (without cord)~	2.18	2.2	2.4	0.9	2.0	1.3	4.9	9.7
Conformity mark			CE				CE	CE
Approval mark				UL	UL		CSA	CSA
Certification scheme							CCA	CCA
Protection class	□	□	□	□	□	□	□	□
Applications								
Outdoor use	✓	✓	✓	✓				✓
Indoor use	✓	✓	✓	✓	✓	✓	✓	✓
Roofing	✓	✓	✓	✓				
Billboards / Tarpaulins	✓	✓	✓	✓	✓	✓		
Civil engineering / Tunneling / Landfills	✓	✓	✓	✓				
Plastic fabrication	✓	✓	✓	✓	✓			
Flooring / Interior design	✓	✓	✓	✓	✓	✓		
Shrinking	✓	✓	✓	✓	✓	✓	✓	✓
Integrated blower	✓	✓	✓	✓	✓	✓	✓	✓
Digital display		✓				✓		
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Product overview Hot-air hand tools and Blower

					
Type	WELDING PEN R / S	ROBUST	DIODE PID / S	MINOR	LABOR S
Voltage V~	120	3 × 230 / 3 × 400	120	230	120
Max. power W	600	250	1600	100	600 / 700
Temperature °F	68 – 1112		68 – 1112		68 – 1112
Size inch (L × Ø)	10.6 × 1.7	8.9 × 8.7	10.4 × 2.2	9.8 × 3.7	7.1 × 2.1
Handle (Ø)	1.3		1.6	2.5	1.6
Weight lbs (without cord)~	2.2	17.6	2.5	2.5	0.33
Conformity Mark		CE			
Approval mark					UL
Certification Scheme					
Protection Class	□	⊕	□	□	□
Applications					
Outdoor use					
Indoor use	✓	✓	✓	✓	✓
Roofing					
Billboards / Tarpaulins					
Civil engineering / Tunneling / Landfills					
Plastic fabrication	✓	✓	✓	✓	✓
Flooring / Interior design					
Shrinking					
Integrated blower		✓		✓	
Digital display	✓ (R)		✓ (PID)		
Catalog page	24	25	26	27	28

TRIAC ST – Design meets experience

The new TRIAC ST from Leister is primarily used for welding and plastic fabrication. During its development, a deliberate choice was made to do without extra technical features. Instead it is distinguished by comfort, being reliable versatile and user friendly, like its predecessor the TRIAC S. A prominent feature here is the two-component handle, which is not only attractive, but also gives the user perfect grip. The low weight of less than 1 kg/2.18 lbs ensures a perfect weight balance.

Product advantage

1



Ergonomic handling:
The 2-component handle and perfect tool balance ensure ideal grip and optimum working even under the toughest conditions.

Perfect weight:
Weighing less than 2.18 lbs, the TRIAC ST is even lighter than its predecessor.

2



Always keeps a cool head:
There is an actively cooled protective tube for greater work safety.

Design meets experience:
The TRIAC ST is already the seventh generation of Leister's revolutionary TRIAC hot-air hand tool line. Decades of experience packed into a modern design.



3



Swiss thoroughness:
The air filters, located on either side, can easily be removed and cleaned. This ensures optimum air flow and maximum power output.

4



Plug'n Leister
Like the TRIAC S, the TRIAC ST impresses with easy operation and Swiss quality.

Reliable partner:
The TRIAC ST has kept what is probably its predecessor's most important feature: It is and remains reliable!



TRIAC AT: Robust and intelligent.

The TRIAC AT is an intelligent hot-air hand tool for welding and shrinking plastics that is suitable for on-site use. It is designed for the needs of even the most demanding professional. Every tool undergoes stringent quality checks prior to leaving the factory in Switzerland. This high-quality hot-air hand tool is equipped for all situations. Its universal areas of application are virtually unlimited. The TRIAC AT will continue to prove its merit in any weather condition and is just as effective outside as it is indoors – all during continuous operation.

Hot-air hand tool TRIAC ST





Hot-air hand tool TRIAC AT




- Suitable for the work site
- The sturdy, professional hot-air hand tool that weighs less than 2.18 lbs
- Functional design: two-component handle grip and optimum center of gravity ensure good ergonomics
- Quick clean air filters
- Automatic carbon stop and heating element protection provide automatic protective measures

- Suitable for the work site
- Closed loop controlled temperature
- Open loop controlled air volume
- Intelligent «e-Drive» operating unit
- Ergonomic handling
- Modern design

Technical data		
Voltage	V~	120
Power	W	1600
Temperature	°F	104 – 1292
Size (L x Ø)	inch	13.3 x 3.5, handle Ø 2.2
Weight	lbs	< 2.18 (without power cord)
Conformity marking		
Protection class II		

Article No.:
141.228 TRIAC ST 120 V / 1600 W for push-fit nozzles with US plug / UL

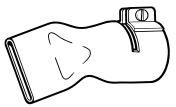
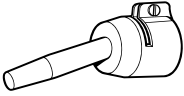
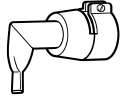
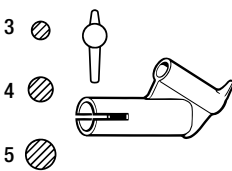
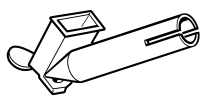
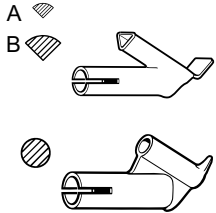
Technical data		
Voltage	V~	120
Power	W	1600
Temperature	°F	104 – 1148
Size (L x Ø)	inch	13 x 3.5, handle Ø 2.2
Weight	lbs	2.2 (without 10 ft cord)
Protection class II		

Article No.:
141.316 TRIAC AT 120 V / 1600 W, with US plug, °F
141.382 TRIAC AT 120 V / 1600 W, with US plug, °C

➔ Accessories on page 14/15

➔ Accessories on page 14/15

Accessories TRIAC ST / TRIAC AT

	<p>Wide slot nozzle, push-fit</p> <p>107.123 0.8 inch, angled</p> <p>105.487 0.8 inch, bent and angled</p> <p>105.503 0.8 inch, 60° angle</p> <p>105.492 0.8 inch, straight jaw, 120° bent at right angle</p> <p>128.535 1.2 inch, 45° angle</p> <p>107.132 1.6 inch</p> <p>107.130 1.6 inch, 60° angle</p> <p>107.133 1.6 inch, perforated</p> <p>107.135 1.6 inch, PTFE-coated</p> <p>107.129 2.4 inch for bitumen</p> <p>107.131 3.1 inch</p>
	<p>100.303 Ø 0.2 inch, tubular nozzle, push-fit</p> <p>105.622 Ø 0.2 inch, tubular nozzle, screw-on</p>
	<p>107.124 0.8 inch angled nozzle, 90°, push-fit</p> <p>107.125 0.8 inch angled nozzle, 60°, push-fit</p>
	<p>105.431 0.12 inch speed weld nozzle, with small air-slide, push-fit on Ø 0.2 inch tubular nozzle</p> <p>105.432 0.16 inch speed weld nozzle, with small air-slide, push-fit on Ø 0.2 inch tubular nozzle</p> <p>105.433 0.2 inch speed weld nozzle, with small air-slide, push-fit on Ø 0.2 inch tubular nozzle</p>
	<p>107.139 0.18 x 0.5 inch speed weld nozzle for fillet weld, push-fit on Ø 0.2 inch tubular nozzle</p> <p>107.137 0.31 inch speed weld nozzle for tape welding, push-fit on Ø 0.2 inch tubular nozzle</p>
	<p>Speed weld nozzle, push-fit on Ø 0.2 inch tubular nozzle</p> <p>106.992 0.22 inch, profile A</p> <p>106.993 0.28 inch, profile B</p> <p>106.989 0.12 inch</p> <p>106.990 0.16 inch</p> <p>106.991 0.2 inch</p>



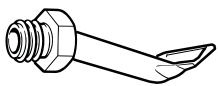
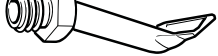




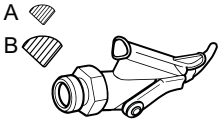
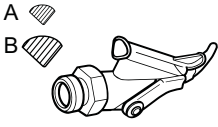


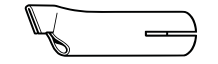

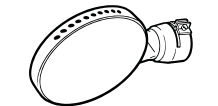

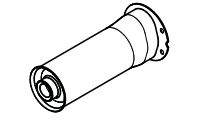
Overlap welding

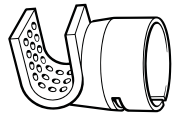


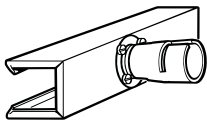

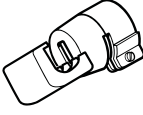
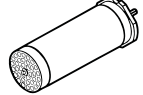


Draw welding



Shrinking

	106.988 Tacking nozzle, screw-on
	126.552 Ø 0.16 inch drawing nozzle, screw-on for floor plastics
	113.666 Ø 0.12 inch drawing nozzle with tacking tip, screw-on
	113.399 Ø 0.16 inch drawing nozzle with tacking tip, screw-on
	113.876 Ø 0.12 inch drawing nozzle without tacking tip, screw-on
	113.874 Ø 0.16 inch drawing nozzle without tacking tip, screw-on
	113.670 Drawing nozzle triangular-shaped, with tacking tip, screw-on 0.22 inch
	113.877 Without tacking tip, screw-on 0.22 inch, profile A
	106.986 Without tacking tip, screw-on 0.28 inch, profile B
	106.987 0.28 × 0.22 inch
	106.996 Tacking nozzle, push-fit on Ø 0.2 inch tubular nozzle
	106.982 Ø 0.2 inch extension nozzle, 6 inch
	107.344 5.31 inch welding mirror, push-fit
	143.833 Nozzle adapter for screw-on nozzles
	143.332 Protection tube for screw-on nozzles

	107.324 0.5 × 0.4 inch sieve reflector, push-fit on Ø 0.2 inch tubular nozzle
	107.337 2.0 × 1.4 inch sieve reflector, push-fit
	107.338 1.37 × 0.8 inch sieve reflector, push-fit
	107.326 1.0 × 6 inch shell reflector, push-fit
	107.307 1.06 × 1.4 inch spoon reflector, push-fit
	107.339 0.7 × 1.5 inch soldering reflector, push-fit
	142.718 Heating element for TRIAC ST / TRIAC AT, 120 V / 1550 W






Mirror welding

Additional versions available upon request.
Technical data are subject to change without prior notice.

ELECTRON ST – Strong, compact and handy

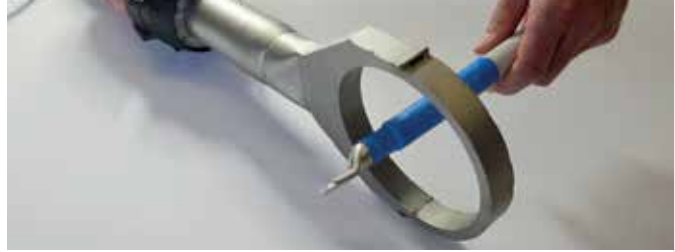
The new ELECTRON ST is a real powerhouse among Leister's hand tools. The appearance of this tool has been modeled after the new TRIAC range. For the user, this means improved ergonomics and, as a result, the ability to work in more comfort. Existing ELECTRON nozzles fit the new model.

Product advantages

1		Powerful: Suitable for any application thanks to its outstanding power rating of up to 3400 W.
2		Perfectly ergonomical: 3.5 ounces lighter and with a 2 component handle that's nearly 1/2 inch slimmer than its predecessor.
3		Infinitely adjustable: Easy air temperature adjustment up to 1202°F.



4		Clean: Air filters, located on either side, can be removed and cleaned in no time at all.
5		Compatible: All predecessor nozzles fit the ELECTRON ST.



Shrinking cable connections is just one of many applications for which the ELECTRON ST can be used.

Hot-air hand tool

ELECTRON ST



- Suitable for construction sites
- Leister's most powerful hand tool
- Easy-clean air filter
- Carbon stop and heating element protection provide automatic protective measures
- Sturdy tool case supplied
- Swiss made

Technical data

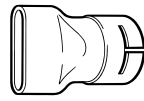



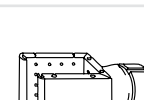




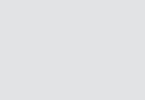
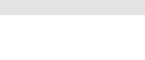
Voltage	V~	230	230	200	120
Power	W	2300	3400	3000	2400
Temperature	°F	104 – 1202			
Size (L x Ø)	inch	13.3 x 3.5, handle Ø 2.2			
Weight	lbs	2.4 without connection cable			
Conformity mark		CE			
Protection class II		□			

Article No.

- 149.673 ELECTRON ST 230 V/2300 W for push-fit nozzles with Euro plug *
- 145.562 ELECTRON ST 120 V/2400 W for push-fit nozzles with US plug

* Please ask about availability

Accessories, ELECTRON ST

	107.258 Wide slot nozzle, push-fit 2.8 x 0.4 inch, for bitumen
	107.653 Wide slot nozzle 2.95 x 0.08 inch, push-fit
	151.068 Tool stand for 107.653
	107.270 Wide slot nozzle 5.9 x 0.5 inch, push-fit
	107.229 Round nozzle 0.8 inch
	107.331 2.83 x 2.8 inch folding reflector, push-fit
	107.328 2.4 x 3 inch folding reflector, push-fit
	107.330 4.9 x 0.85 inch folding reflector, push-fit
	107.327 3.3 x 3.3 inch sieve reflector, push-fit
	107.333 5.9 x 4.3 inch sieve reflector, push-fit
	106.127 Ø 2.6 sieve reflector, push-fit
	107.340 1.8 x 9.8 inch shell reflector, push-fit
	107.346 10.6 inch welding mirror, push-fit
	Heating elements 145.604 120 V / 2300 W 145.606 230 V / 3300 W 145.605 200 V / 3300 W 149.675 230 V / 2200 W

HOT JET S: Small and powerful.

As the most compact Hot-air hand tool from Leister, the HOT JET S' low weight of 1.3 lbs (including cord and slim handle) ensures high-powered, fatigue-free welding.



Especially suited to facilitate tasks in difficult to access areas.

Hot-air hand tool HOT JET S



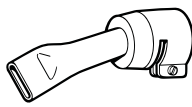
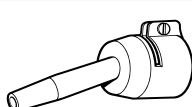
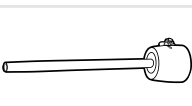
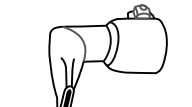
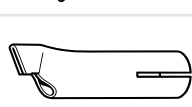


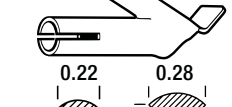
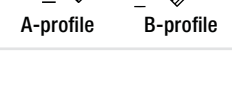
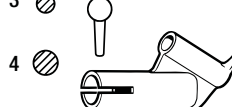



- The smallest Leister Hot-air hand tool
- Stepless, electronically controlled temperature
- Stepless, electronically controlled air flow
- Low noise
- Flexible, integrated tool stand

Technical data		
Voltage	V~	120
Power	W	460
Temperature	°F	68 – 1112
Size (L × Ø)	inch	9.2 × 2.7, handle Ø 1.6
Weight	lbs	0.9 (without 10 ft cord)
Conformity mark		CE
Approval mark		UL
Certification Scheme		CCA
Protection class II		□

Article No.:

- 100.861 HOT JET S 120 V / 460 W, with US plug
- 100.859 HOT JET S 120 V / 460 W with US plug (UL)

Accessories HOT JET S

	107.141 0.6 inch wide slot nozzle, push-fit
	107.142 0.8 inch wide slot nozzle, push-fit
	107.144 Ø 0.2 inch tubular nozzle, push-fit
	105.567 Ø 0.2 × 6 inch extension nozzle, straight
	105.556 0.8 inch angled nozzle, 90° angled, push-fit
	106.996 Tacking nozzle, push-fit on Ø 0.2 inch tubular nozzle
	106.989 0.12 inch speed welding nozzle, push-fit on Ø 0.2 inch tubular nozzle
	106.990 0.16 inch speed welding nozzle, push-fit on Ø 0.2 inch tubular nozzle
	106.991 0.2 inch speed welding nozzle, push-fit on Ø 0.2 inch tubular nozzle
	106.992 0.22 inch, A profile speed welding nozzle, push-fit
	106.993 0.28 inch, B profile speed welding nozzle, push-fit
	105.431 0.12 inch speed welding nozzle, with small air-slide, push-fit on Ø 0.2 inch tubular nozzle
	105.432 0.16 inch speed welding nozzle, with small air-slide, push-fit on Ø 0.2 inch tubular nozzle
	105.433 0.2 inch speed welding nozzle, with small air-slide, push-fit on Ø 0.2 inch tubular nozzle



HOT JET S with angled nozzle welding a T-joint on the roof.



Fitting a solder shrink connection with the HOT JET S outfitted with a push-fit sieve reflector.

Accessories HOT JET S

	107.137 0.31 inch speed welding nozzle for tape welding, push-fit on \varnothing 0.2 inch tubular nozzle
	107.139 0.18 x 0.5 inch speed welding nozzle for fillet weld, push-fit on \varnothing 0.2 inch tubular nozzle
	107.324 0.5 x 0.4 inch sieve reflector, push-fit on \varnothing 0.2 inch tubular nozzle
	107.146 \varnothing 0.08 inch soldering nozzle
	107.151 \varnothing 0.16 inch soldering nozzle
	107.148 \varnothing 0.12 x 0.06 inch soldering nozzle, oval
	107.310 1.4 x 0.8 inch sieve reflector, push-fit
	107.311 2.0 x 1.4 inch sieve reflector, push-fit
	107.312 1.0 x 1.2 inch spoon reflector, push-fit
	107.305 0.6 x 1.0 inch ironing nozzle
	103.607 Nozzle adapter for screw-on nozzles
	100.818 120 V / 435 W heating element



Small and handy: The HOT JET S is perfect when welding complicated details in billboard and tarpaulin applications.



GHIBLI: The “hot-air gun“.

GHIBLI, derived from a hot desert wind, certainly lives up to its name. Thanks to its two-step airflow switching and steplessly adjustable temperature, the GHIBLI can be used for the most diverse applications.



Shrinking cable connections which the GHIBLI.

Hot-air hand tool GHIBLI



- Universal tool for welding and shrinking
- Welding results independent of voltage fluctuations and ambient temperature
- Two-step selectable airflow



Technical data

Voltage	V	120
Power	W	1500
Temperature	°F	68 – 1112
Size (L × W × H)	inch	7.7 × 3.3 × 6.3, Handle Ø 2.2
Weight	lbs	2.0 (without 10 ft cord)
Approval mark		
Protection class II		

Article No.:

- 101.887 GHIBLI 120 V / 1500 W with US plug
- 101.891 GHIBLI 120 V / 1500 W with US plug (UL)

Additional versions available upon request

	106.998 0.8 inch wide slot nozzle, push-fit
	106.999 1.6 inch wide slot nozzle
	107.154 Ø 0.2 inch tubular nozzle, push-fit
	107.006 Ø 0.2 × 5.1 inch extension nozzle, straight
	107.308 2.0 × 1.4 inch sieve reflector
	107.309 1.4 × 0.8 inch sieve reflector
	107.313 1.0 × 1.2 inch spoon reflector, push-fit
	107.325 0.7 × 1.5 inch soldering reflector, push-fit
	107.319 Ø 2.55 inch sieve reflector, push-fit
	107.315 2.7 × 0.47 inch folding reflector, push-fit
	107.345 5.3 inch welding mirror, push-fit
	115.513 230 V / 1800 W heating element

SONORA S1: Handy and quiet.

The handy, quiet and compact tool for universal use. The SONORA S1 is the perfect hot-air hand tool for shrinking, car wrapping, forming and heating. Excellent price / performance ratio.



Ergonomic design for strain-free car wrapping.

Hot-air hand tool SONORA S1



- Lightweight and compact
- High stability for long term use
- Balanced ergonomics with soft grip
- Very quiet tool, ideal for indoor use
- Constant temperature and closed-loop controlled electronics



Technical data





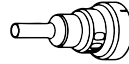

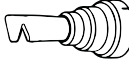
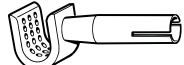

Voltage	V	120
Power	W	1500
Temperature	°F	176 – 1202
Size	inch	9.1 × 7.9
Weight	lbs	1.3 (without 6.5 ft cord)
Protection class II		□

Article No.:

140.997 SONORA S1, 120 V / 1500 W, with US plug

Additional versions available upon request

Accessories SONORA S1

	119.269 Glass protection nozzle
	119.270 2.0 inch wide slot nozzle
	119.314 Reducer nozzle (included with S1 purchase)
	119.271 Reflector nozzle (included with S1 purchase)
	119.316 0.2 inch tubular nozzle
	119.315 0.8 inch wide slot nozzle
	119.312 Solder sleeve reflector nozzle (included with S1 purchase)
	107.324 0.5 × 0.4 inch sieve reflector, push-fit on Ø 0.2 inch tubular nozzle
	107.308 2.0 × 1.4 inch sieve reflector



HOTWIND: The new dimension.

Weighing just 6.6 lbs, the HOTWIND can be used either as an integrated or bench-top device. The high maximum temperature of 1472 °F means that the HOTWIND can be used in a variety of ways.



The HOTWIND is perfectly suited for drying and baking of print on plastic components.

Hot-air hand tool

HOTWIND PREMIUM / SYSTEM



- Ideal for warming, heating, forming and drying
- Stepless adjustment of the heating and blower
- Integrated device and heating element protection
- Extremely smooth running

Technical data

Voltage	V~	120 / 230
Power	W	2300 / 3700
Max. Luftaustritts-Temperature	°F	1202
Size (L × W × H)	inch	13.1 × 4.2 × 7.05
Weight	lbs	4.8 (without 10 ft cord)
Conformity mark		CE
Approval mark		Ⓢ
Certification Scheme		CCA
Protection class II		Ⓜ

Article No.:

142.609	HOTWIND PREMIUM, 230 V / 3700 W, with Euro plug
142.645	HOTWIND SYSTEM, 230 V / 3700 W, with Euro plug
140.095	HOTWIND PREMIUM, 120 V / 2300 W, without plug
142.636	HOTWIND SYSTEM, 120 V / 2300 W, without Euro plug

Additional versions available upon request

Accessories HOTWIND PREMIUM / SYSTEM

	Wide slot nozzle, push-fit (a × b)	
	107.260	3.3 × 0.6 inch
	107.259	5.9 × 0.5 inch
	105.977	7.8 × 0.35 inch
	107.263	9.8 × 0.5 inch
	107.262	11.8 × 0.16 inch
105.992	15.7 × 0.16 inch	
105.991	19.7 × 0.16 inch	
	125.317	Flange connector, push-fit a = 3.54 inch
		107.335
		107.248
		141.723
		143.035
	103.607	230 V / 3600 W heating element



FORTE S3: Flameless shrinking.

The most powerful hot-air hand tool from Leister. The FORTE S3 is extremely well-suited for flameless shrinking of pallets and bulky goods.



Flameless shrink-wrapping of pallets and bulky goods with the FORTE S3.

Hot-air hand tool FORTE S3



- Powerful pallet shrink-wrapping
- Uniform shrinkage
- May be used in confined spaces
- Integrated tool stand

Technical data			
Voltage	V~	3 × 230	3 × 400
Power	kW	10	10
Temperature	°F	1202	
Size (L × W × H)	inch	15.3 × 5.2 × 8.4	
Weight	lbs	9.7 (without 32 ft cord)	
Conformity mark		CE	
Approval mark		S	
Certification Scheme		CCA	
Protection class II		□	

Article No.:

111.029 FORTE S3, 3x 400 V / 10 kW without plug
102.031 FORTE S3, 3x 230 V / 10 kW without plug

Additional versions available upon request



WELDING PEN: Slim and flexible.

The WELDING PEN is a hot-air hand tool optimized for draw welding. Due to its slim design and swivelling external air supply it makes hard work easy.



Draw welding using the compact and lightweight WELDING PEN R.

External air hand tool

WELDING PEN R / WELDING PEN S



- Digital temperature display (WELDING PEN R)
- Connection makes working easier.
- Cooled heating element tube
- Used in combination with ROBUST blower or compressed air

Technical data

Voltage	V~	120
Power	W	600
Temperature	°F	68 – 1112
Size (L × Ø)	inch	10.6 × 1.7, handle Ø 1.3
Weight	lbs	2.2 (with 10 ft cord / air hose and Y-connection)
Protection class II		□

Article No.:

114.576	WELDING PEN R, 120 V / 600 W, for screw-on nozzle, with US plug
113.708	WELDING PEN S, 120 V / 600 W, for screw-on nozzle, with US plug

Additional versions available upon request

Accessories WELDING PEN R / S

	105.622 Ø 0.2 inch tubular nozzle, 15° screw-on
	106.988 Tacking nozzle, screw-on
	113.666 Ø 0.12 inch round drawing nozzle with tacking tip, screw-on
	113.399 Ø 0.16 inch round drawing nozzle, with tacking tip, screw-on
	113.876 Ø 0.12 inch round drawing nozzle without tacking tip, screw-on
	113.874 Ø 0.16 inch round drawing nozzle, without tacking tip, screw-on
	113.670 Triangular drawing nozzle with tacking tip, screw-on, 0.22 inch, profile A
	113.877 Without tacking tip, screw-on 0.22 inch, profile A
	106.986 Without tacking tip, screw-on 0.28 inch, profile B
	106.987 0.28 × 0.22 inch
	126.552 Ø 0.16 inch drawing nozzle, screw-on for fluor plastics
	Angular adapter for screw-on nozzles, screw-on
	127.726 30° 127.727 45°
	113.597 120 V / 600 W heating element for WELDING PEN R and WELDING PEN S



Swiveling air hose for easy working.

ROBUST: The powerhouse.

Versatile and operable at high ambient temperatures of up to 140 °F. Despite its small size, the ROBUST is a real powerhouse. This blower can simultaneously supply air for up to three hot-air hand tools.



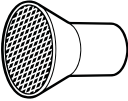
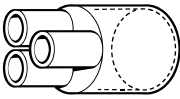
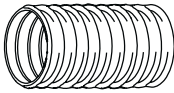
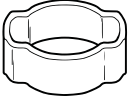
ROBUST blower, serving as the external air supply for the WELDING PEN.

Blower ROBUST



- High-performance, compact design
- Sound-suppression
- Can be integrated at any position
- Can be used as an external air supply to 1 WELDING PEN R or up to max. 3 DIODE S/ PID or max. 3 LABOR S (with 107.281 hose adapter)

Accessories ROBUST

	107.354 Stainless steel filter, push-fit on air intake
	107.281 ∅ 1.5 inch hose connection adapter, 3 output each 0.55 inch
	113.859 ∅ 0.55 inch air hose
	101.031 ∅ 0.55 inch hose clip for air hose

Technical data

Frequency	Hz	50	60
Air volume (68 °F)	cfm	42	46
Static pressure	psi	1.16	1.52
Max. ambient temperature	°F	140	140
Max. air inlet temperature	°F	140	140
Noise emission level	dB(A)	62	62
Environmental protection (IEC 60529)		IP 54	IP 54
Outside diameter air inlet	∅ inch	1.5	1.5
Outside diameter air outlet	∅ inch	1.5	1.5
Weight	lbs	17.6	17.6
Conformity mark		CE	CE
Protection class I		⊕	⊕

Article No.:

Voltage V~	50 Hz	1 × 120	1 × 230	3 × 230 / 400
	60 Hz			3 × 440 - 480
Without cord	Article No.:	103.434		103.429
10 ft cord / Euro plug	Article No.:		103.432	



DIODE PID / S: The powerful pair.

There are two options for high-quality work: The closedloop DIODE PID provides the perfect welding temperature at all times. The DIODE S easily puts you in control with a manual temperature knob.



Convenient wire welding using the powerful and lightweight DIODE PID.

External air hand tool

DIODE PID / DIODE S



- Operated with MINOR or ROBUST blower or with compressed air
- Digitally controlled and displayed temperatures (DIODE PID)
- Cooled heating element tube
- Suitable for field applications when used in combination with a MINOR blower

Technical data

Voltage	V~	120
Power	W	1600
Temperature	°F	68 – 1112
Size (L x Ø)	inch	10.4 x 2.2, handle Ø 1.6
Weight	lbs	2.5 (with 10 ft cord / 10 ft air hose)
Protection class II		☐

Article No.:

101.291	DIODE S, 120 V / 1600 W, for push-fit nozzles, with US plug
101.447	DIODE S, 120 V / 1700 W, for push-fit nozzles, connected to MINOR, 5 ft air hose, with US plug
101.311	DIODE PID, 120 V / 1600 W, for push-fit nozzles, with US plug

Additional versions available upon request

Hand tool and blower

DIODE PID / DIODE S with MINOR



MINOR blower and DIODE PID with screw-on drawing nozzle.

- Ideal for assembly work

Technical data

Voltage	V~	120
Power	W	1700
Temperature	°F	68 – 1112
Size (L x Ø)	inch	10.4 x 2.2, handle Ø 1.6
Weight	lbs	5.5 (with 10 ft cord / 5 ft air hose)
Protection class II		☐

Article No.:

101.447	DIODE S with Minor, 120V / 1700W, push-fit, 1.5m air hose, US-plug
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Additional versions available upon request



MINOR: The mobile air supplier.

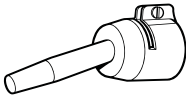
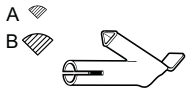
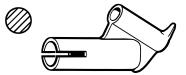
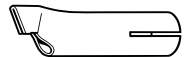


Don't be deceived by the MINOR's small size and low weight. This blower delivers sufficient air to enable quality work with the DIODE PID / DIODE S or LABOR S.



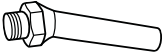


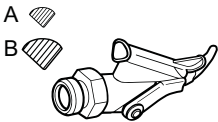

The MINOR blower as an air supply for the DIODE PID.

Accessories DIODE PID / DIODE S

With push-fit nozzle

	100.303 Ø 0.2 inch tubular nozzle, for versions with nozzles, push-fit
	106.992 Speed welding nozzle, push-fit on Ø 0.2 inch tubular nozzle 106.993 0.22 inch, profile A 0.28 inch, profile B
	106.989 0.12 inch 106.990 0.16 inch 106.991 0.2 inch
	106.996 Tacking nozzle, push-fit on Ø 0.2 inch tubular nozzle
	143.833 Nozzle adapter for screw-on nozzles
	100.650 120 V / 1600 W heating element for DIODE PID 100.702 120 V / 1600 W heating element for DIODE S

With screw-on nozzle

	105.622 Ø 0.2 inch tubular nozzle, screw-on
	106.988 Tacking nozzle, screw-on
	113.666 Ø 0.12 inch round drawing nozzle with tacking tip, screw-on 113.399 Ø 0.16 inch round drawing nozzle, with tacking tip, screw-on 113.876 Ø 0.12 inch round drawing nozzle without tacking tip, screw-on 113.874 Ø 0.16 inch round drawing nozzle, without tacking tip, screw-on
	113.670 Triangular drawing nozzle, with tacking tip, screw-on, 0.22 inch 113.877 Without tacking tip, screw-on 0.22 inch, profile A 106.986 Without tacking tip, screw-on 0.28 inch, profile B 106.987 0.28 × 0.22 inch
	126.552 0.16 inch drawing nozzle, screw-on, for fluor plastics

Blower MINOR



- Lightweight and compact
- Powerful
- Serves as a mobile air supply for the DIODE PID / DIODE S and LABOR S
- Suitable for work on construction sites

Technical data

Voltage	V~	120
Power	W	100
Air volume (68°F)	cfm	14.1
Pressure static	psi	0.06
Air outlet (external)	inch	0.6
Size (L × Ø)	inch	9.8 × 3.7, handle Ø 2.5
Weight	lbs	2.5 (with 10 ft cord)
Protection class II		☐



Article No.:

108.749 MINOR, 120 V / 100 W, with US plug

Additional versions available upon request

LABOR S: Small and handy.

The fatigue-free LABOR S is a „jack of all trades“. Its small size makes it ideal for perfect welding in small spaces.



LABOR S, used in combination with MINOR as an external air supply.

External Air Hand Tool LABOR S



- Temperature adjustment via rotary knob
- Very small and handy device
- Ideal for draw welding and tacking
- Air supply with ROBUST blower, MINOR (p. 27) or with compressed air
- Ideal for mobile use when coupled with MINOR blower

Technical data

Voltage	V~	120
Power	W	600 / 700
Temperature	°F	68 – 1112
Size (L x Ø)	inch	7.1 x 1.6, handle Ø1.6
Weight	lbs	0.33 (without air hose and without cord)
Approval mark		
Protection class II		

Article No.:

- 101.721 LABOR S with junction box, 120 V / 600 W with US plug, 10 ft PVC hose, UL
 101.755 LABOR S with blower box MINOR, 120 V / 700 W with US plug, 4.9 ft, PVC hose

Additional versions available upon request

Accessories LABOR S

	107.144 Ø 0.2 inch tubular nozzle, push-fit
	Speed weld nozzle, push-fit on Ø 0.2 inch tubular nozzle
	106.992 0.22 inch, profile A 106.993 0.28 inch, profile B
	106.989 0.12 inch 106.990 0.16 inch 106.991 0.2 inch
	106.996 Tacking nozzle, push-fit on Ø 0.2 inch tubular nozzle
	101.643 120 V / 600 W heating element



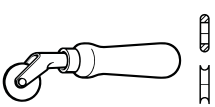
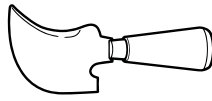
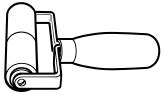
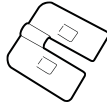
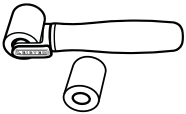

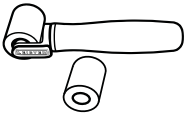
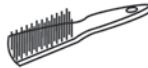

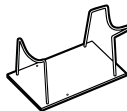

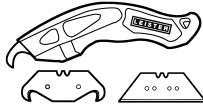
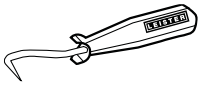
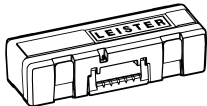
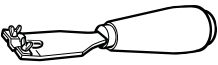
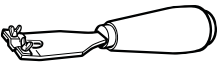
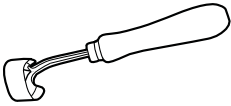
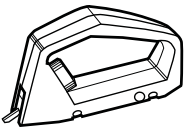
FL4 1054
11025
- WK 20



The new «Groovy» gouging tool is also perfectly suited for floor joints.

Hot-air hand tools

General accessories

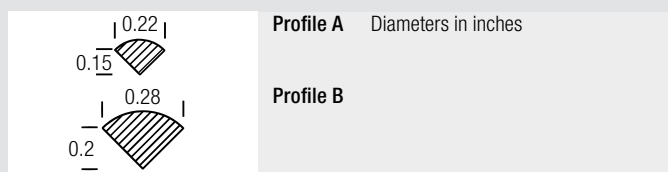
	106.972 Brass pressure roller with ball bearings		106.969 Spatula
	106.970 Brass pressure roller, for welding rods \varnothing 0.16 – 0.2 inch		
	106.974 3.1 inch silicone pressure roller		122.541 Trimming guide, to use with spatula (106.969)
	140.160 1.6 inch silicone pressure roller with ball bearings (silicone) 140.599 Spare roll for 140.160		106.997 \varnothing 0.23 inch rotary burr for drilling machine, for car repairs
	140.161 Pressure roller 1.1 inch, with ball bearings (silicone) 140.598 Spare roll for 140.161 106.976 1.1 inch pressure roller (PTFE)		116.798 Brass brush
	106.972 Brass pressure roller with ball bearings		107.348 Tool rest for TRIAC AT, TRIAC ST, ELECTRON ST
	106.981 Pressure roller for custom seal		137.855 Leister cutter with four spare blades 138.902 10 spare blades hook-shaped 138.539 10 spare blades trapezoid-shaped
	138.314 Seam probe tester for overlap seams		116.586 Storage case for TRIAC AT, TRIAC ST, ELECTRON ST
	111.346 Chamfer plane with seven spare blades, for sealing sheets 111.348 Spare blades kit containing ten blades		
	106.966 Hand grooving tool 106.968 Spare blades for hand grooving tool		
	151.188 Chamfer plane for T-joints		
	150.809 Hand splice tool «Groovy» for flooring applications		



Welding wires

Article		packaging units (lbs)	Article		packaging units (lbs)
Welding wires PE			Welding wires div.		
104.283	Welding rod HDPE, profile A, black	6.6	104.297	Welding rod PA, profile A, black	6.6
104.294	Welding rod HDPE, profile A, white	6.6	104.298	Welding rod PC, profile A, transparent	6.6
104.284	Welding rod HDPE, profile B, black	11	104.313	Welding rod PC / ABS / ALPHA (Honda), profile A, black	6.6
104.299	Welding rod HDPE, profile B, white	11	104.311	Welding rod PC / PBTP (Xenoy), profile A, grey	6.6
106.650	Welding band HDPE, 0.32" × 0.08", white	2.2	104.309	Welding rod PS, profile A, white	6.6
104.300	Welding rod LDPE, profile A, black	6.6	104.308	Welding rod PUR, profile A, black	6.6
Welding wires PP			106.654	Welding band Xenoy, 0.32" × 0.08", grey	4.4
104.287	Welding rod PP, profile A, grey / beige	6.6	106.642	Welding rod PPs, profile A, grey, flame resistant	6.6
104.301	Welding rod PP, profile A, black	6.6	104.304	Welding rod PVDF, profile A, natural	6.6
104.288	Welding rod PP, profile B, grey / beige	11	104.303	Welding rod POM, profile A, natural	6.6
126.356	Welding band PP, 0.32" × 0.08", natural	4.4	Test bundles		
Welding wires PVC			Test bundle (bodywork) welding wires, each consisting of profile A pieces of 14.6 inch single marked 6× HDPE, 6× PP, 6× PA, 6× PC, 6× ABS, 6× PCABS / ALPHA Honda, 6× PC / PBTP / Xenoy		
104.296	Welding rod PVC-U (hard), profile A, transparent	6.6	107.036		
104.278	Welding rod PVC-U (hard), profile A, grey	6.6	Test bundles (standard) each consisting of profile A pieces of 14.6 inch single marked 5× PVC-U, 5× PVC-P, 5× PP, 5× ABS, 5× HDPE, 3× PC, 3× PA, 3× POM, 3× LDPE, 3× PC / ABS / ALPHA Honda, 3× PC / PBTP / Xenoy		
106.641	Welding rod PVC-U, profile A, brown	6.6	107.037		
104.280	Welding rod PVC-U (hard), profile B, brown	11	Test bundle (welding band) each consisting of profile A pieces of 14.6 inch single marked 9× HDPE 0.32 × 0.08 inch white, 9× PP, 8× 0.08 inch natural, 9× ABS, 0.32× 0.08 inch white, 9× PC / PBTP / Xenoy grey		
104.279	Welding rod PVC-U (hard), profile B, grey	11	107.040		
104.302	Welding rod PVC-P (soft), profile A, transparent	6.6			
Welding wires ABS					
104.295	Welding rod ABS, profile A, white	6.6			
113.587	Welding rod ABS, profile A, black	6.6			
107.027	ABS welding band, 0.32" × 0.08", white	2.2			

Profile sizes







Roofing

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TRIAC DRIVE AT	39
BITUMAT B2	40
COMET SUB-ROOF	41
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Hot Air Tools for Roofing

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TRIAC AT	13 – 15
ELECTRON ST	16 / 17
HOT JET S	18 / 19
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The VARIMAT V2 guide bar fits in tight spaces.



Flameless modified bitumen welding with the BITUMAT B2.

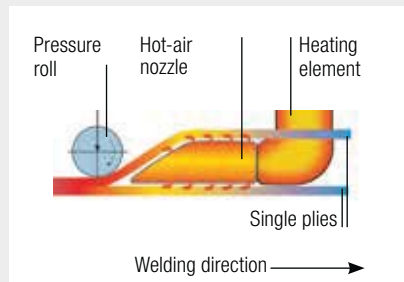


Overview Roofing Welders

					
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 Yards ²	Parapets, edges Small areas, parapets under 600 Yards ²	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

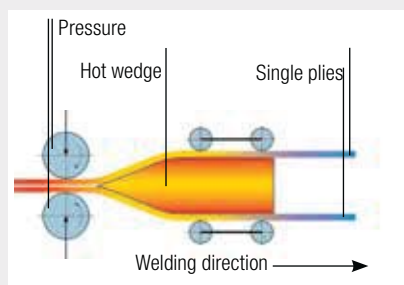
Hot gas welding



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





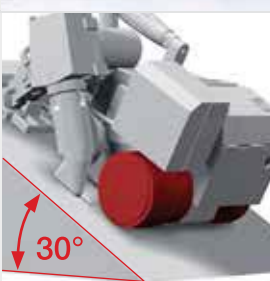


The VARIMAT V2 is perfectly protected and can easily be moved into and out of its sturdy storage case.

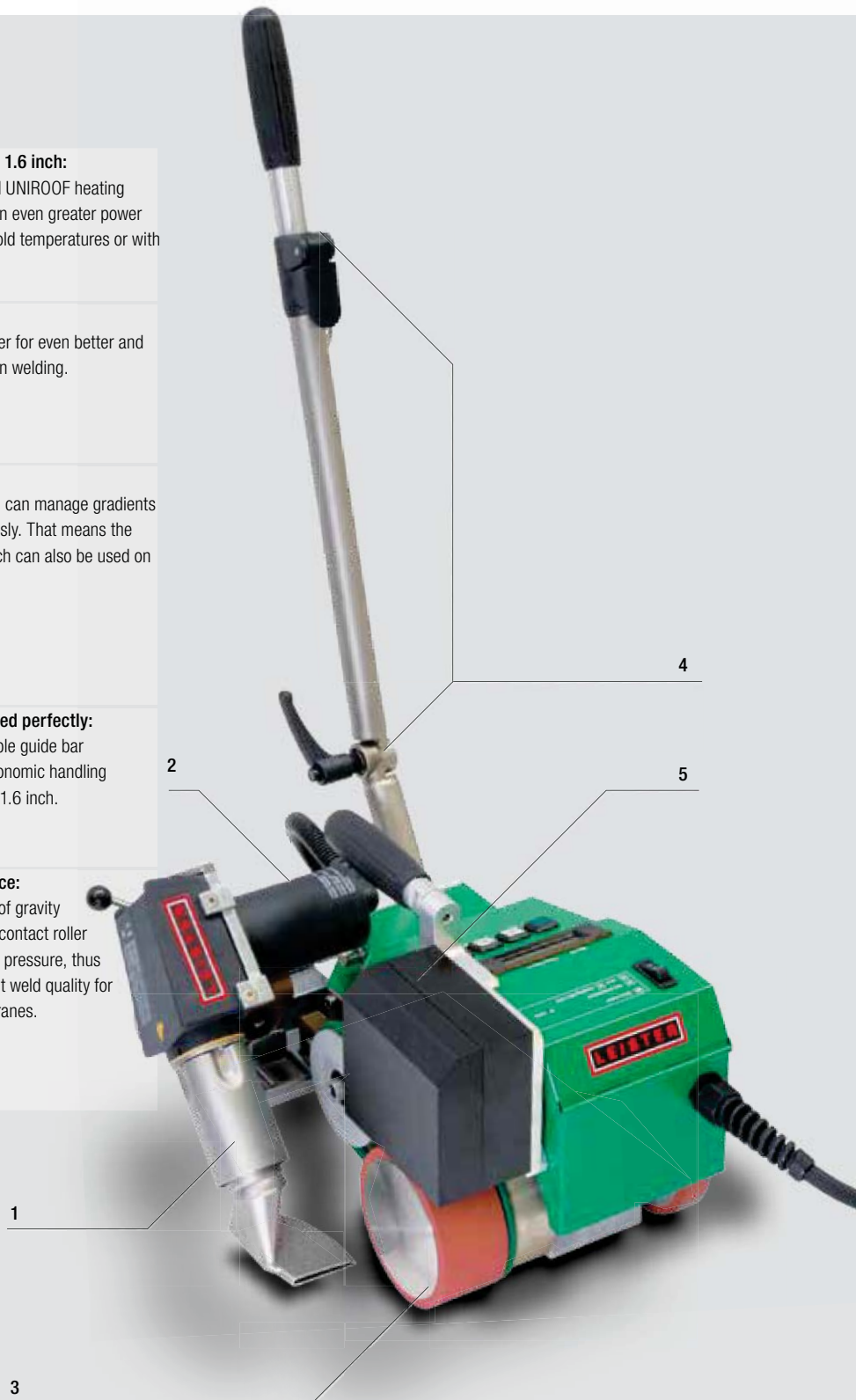
UNIROOF E 40 mm (1.6 inch)

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		<p>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.</p>
2		<p>Tool guidance: Adapted guide roller for even better and easier control when welding.</p>
3		<p>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.</p>
4		<p>Everything handled perfectly: The freely adjustable guide bar ensures ideal, ergonomic handling of the UNIROOF E 1.6 inch.</p>
5		<p>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.</p>





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


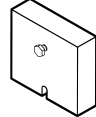
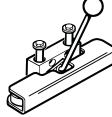

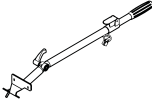
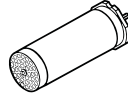
Technical Data

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 x W x H)	inch	16.5 x 11.0 x 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

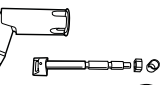
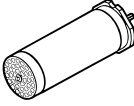
Voltage	V~	230
Power	W	4600
Temperature	°F	212 – 1148
Speed	ft/min	2.3 – 39
Air flow range	%	50 – 100
Width of welding nozzle	inch	1.6
Size (L x W x H)	inch	25 x 17 x 13
Weight	lbs	77
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓜ

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


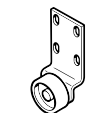


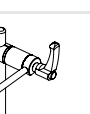










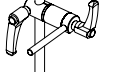

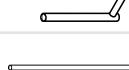


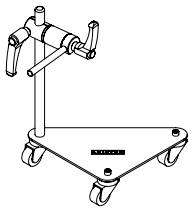
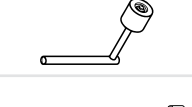
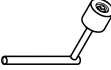


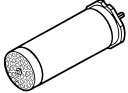
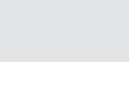
Voltage	V~	230
Power	W	1700
Temperature	°F	104 – 1202
Speed	ft/min	1.6 – 9.8
Size (L x W x H)	inch	11.8 x 9.0 x 15
Weight (with 3 m cable)	lbs	9
Conformity marking		CE
Protection class II		□

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


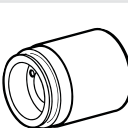

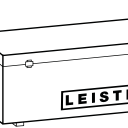
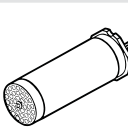

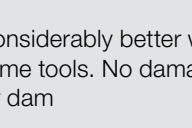


Voltage	V~	230
Power	W	6700
Temperature	°F	68 – 1148
Speed	ft/min	2.7 – 40
Air flow range	%	85 – 100
Welding nozzle width	inch	3.0 / 4.0
Size (L x W x H)	inch	3.0 / 4.0
Weight	lbs	89 (with cord)
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓢ

Article No.:

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

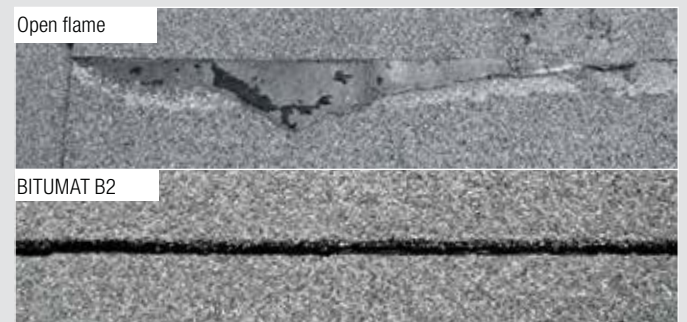
Additional versions available upon request.

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 x 18 x 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.



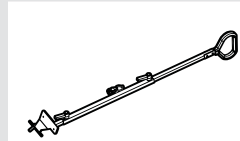
Hands-free welding due to integrated guiding plates.

Hot-wedge welder

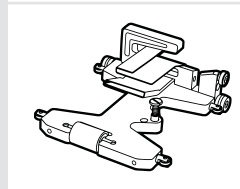
COMET SUB-ROOF



Accessories COMET SUB-ROOF



129.224 Guide-bar, complete, adjustable



110.694 Fitting welding carriage

Roofing

- 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

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.

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,

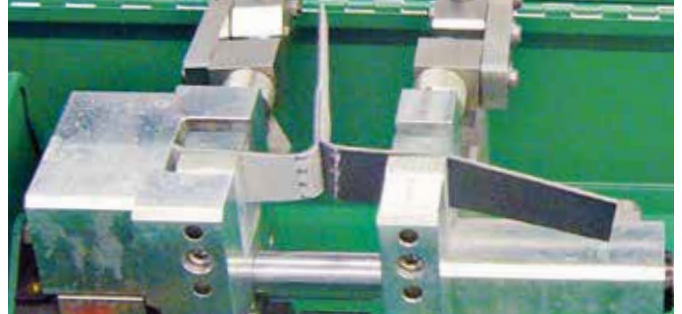
Additional versions available upon request.



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.





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Technical Textiles & industrial Fabrics

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Hot-Air Hand Tools







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SEAMTEK 36: Versatile and reliable

With its easily configurable, modular construction and wide range of pressure rollers and nozzle widths, the SEAMTEK 36 guarantees the greatest flexibility. The ingenious tape guiding system makes it easy to position the material and keep it taut right up to the final point. The pedestal, included in the SEAMTEK 36 Base version, is the workhorse of the system. Together with one of three additional modules almost every plastic weld technique is possible.

New

1		<p>User-friendly: Welding parameters always under control. Multilingual touch-screen with 99 memory settings</p>
2		<p>Well-arranged: Easy access to the welding process</p>
3		<p>Easy: Modular, quickly changeable drive rolls</p>
4		<p>Quick arm: For welding tubes (accessory)</p>
5		<p>Side arm: For welding and taping tapes and for circumference taping caps (accessory)</p>
6		<p>Tape Delivery System (TDS): For welding of tapes (accessory)</p>



Leister SEAMTEK 36 Base version



Easy, economical and safe welding.

Welding machine

SEAMTEK 36



- Suitable for seam or tape welding
- For different weld types like overlap, butt joints, any hem pipe, tape and prayer welds
- Test program to optimize weld parameters
- Easy access to welding process
- Quickly changeable accessories for many applications

Technical data

Voltage	V~	230 / 240
Power	W	3500 with small pump 3900 with big pump
Temperature	°F	95 – 1292
Speed	ft/min	0.82 – 72
Dimensions (L x W x H)	inch	67 x 32 x 67
Weight	lbs	728
Regulated weld pressure	psi	15 – 90
Maintained air pressure	psi	90
Nozzle / pressure roller widths	inch	0.31 – 2.52

Article No.:

150.457	SEAMTEK Base version with pedestal, 2 steel or silicon pressure rollers, standard 1" nozzle
150.887	Quick arm
150.774	Side arm
151.161	Tape Delivery System (TDS)

Technical textile applications



Inflatables










Bags



Clothing and apparel

Product overview hot-air welders for Technical Textiles & industrial Fabrics

							
Device type	VARIANT T1 Overlap	VARIANT T1 TAPE 2.0 inch	VARIANT T1 TAPE 1.0 inch	UNIPLAN E / S	UNIPLAN WEDGE	TAPEMAT 2.0 inch	TAPEMAT SPRIEGEL 0.4 / 4.9 inch
Max. voltage V~	230 / 400	230 / 400	230 / 400	230	230	3 × 400	3 × 400
Max. power W	3680 / 5700	3680 / 5700	3680 / 5700	2300	900	10 000	10 000
Temperature °F	212 –1148	212 –1148	212 –1148	176 – 1148	176 – 788	1200	1200
Speed ft/min	4.9 – 59	4.9 – 59	4.9 – 59	3.3 – 24.6	3.3 – 24.6	13.1 – 65.6	13.1 – 65.6
Welding width inch	0.8 / 1.6	2.0	1.0	0.8 / 1.2	0.8 / 1.2	2.0	2 × 0.8
Size (L × W × H) inch	19.7 × 15.7 × 7.7	27.6 × 16.3 × 3.3	27.6 × 16.3 × 3.3	16.5 × 10.6 × 8.3	16.5 × 10.6 × 8.3	21.9 × 17.1 × 14.6	21.9 × 17.1 × 14.6
Weight lbs	49.6	61.7	61.7	25.4	25.4	77.0	88.0
Conformity mark	CE	CE	CE	CE	CE	CE	CE
Approval mark	§	§	§	§	§	§	§
Certification scheme	CCA	CCA	CCA	CCA	CCA	CCA	CCA
Protection class	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Welding options							
Overlap welding	✓			✓	✓		
Hem welding	✓			✓	✓		
Piping welding	✓			✓	✓		
Tape welding		✓	✓			✓	✓
Welding technologies							
Hot-air welding	✓	✓	✓	✓		✓	✓
Hot-wedge welding					✓		
Features							
Temperature regulation	✓	✓	✓	✓	✓		
Drive regulation	✓	✓	✓	✓	✓		
Temperature and drive infinitely adjustable	✓	✓	✓	✓	✓	✓	✓
Digital display	✓	✓	✓	✓	✓	✓	
Catalog page	49	50	51	52	53	54	54

VARIANT T1: Compact, fast and reliable.

This tool's top welding speed of up to 59 ft/min and its slim, compact design make it a winning choice.



Very easy hem and piping welds with the hem / piping welding kit.

Hot-air welder

VARIANT T1 Overlap



- Top welding speed up to 59 ft/min
- Perfect view into the weld seam
- Sturdy and durable for professional use
- Smooth lifting device for precise positioning
- Simple operation due to «e-Drive» operating concept

Technical Data		
Voltage	V~	230 / 400 (2LNPE)
Power	W	3680 / 5700
Temperature	°F	212 –1148
Speed	ft/min	4.9 – 59
Air flow range	%	40 – 100
Welding seam width	inch	0.8 or 1.6
Size (L x W x H)	inch	16.5 x 10.6 x 7.5
Weight	lbs	48.5 (without 4.9 inch cord)
Conformity mark		CE
Protection class I		⊕

Article No.:

141.891	VARIANT T1, 230 V / 3680 W, 1.6 inch nozzle, with Euro plug
141.892	VARIANT T1, 230 V / 3680 W, 0.8 inch nozzle, with Euro plug
141.893	VARIANT T1, 400 V / 5700 W, 1.6 inch nozzle, with CEE plug (3LNPE)
141.894	VARIANT T1, 400 V / 5700 W, 0.8 inch nozzle, with CEE plug (3LNPE)

Additional versions available upon request.








Accessories VARIANT T1 Overlap

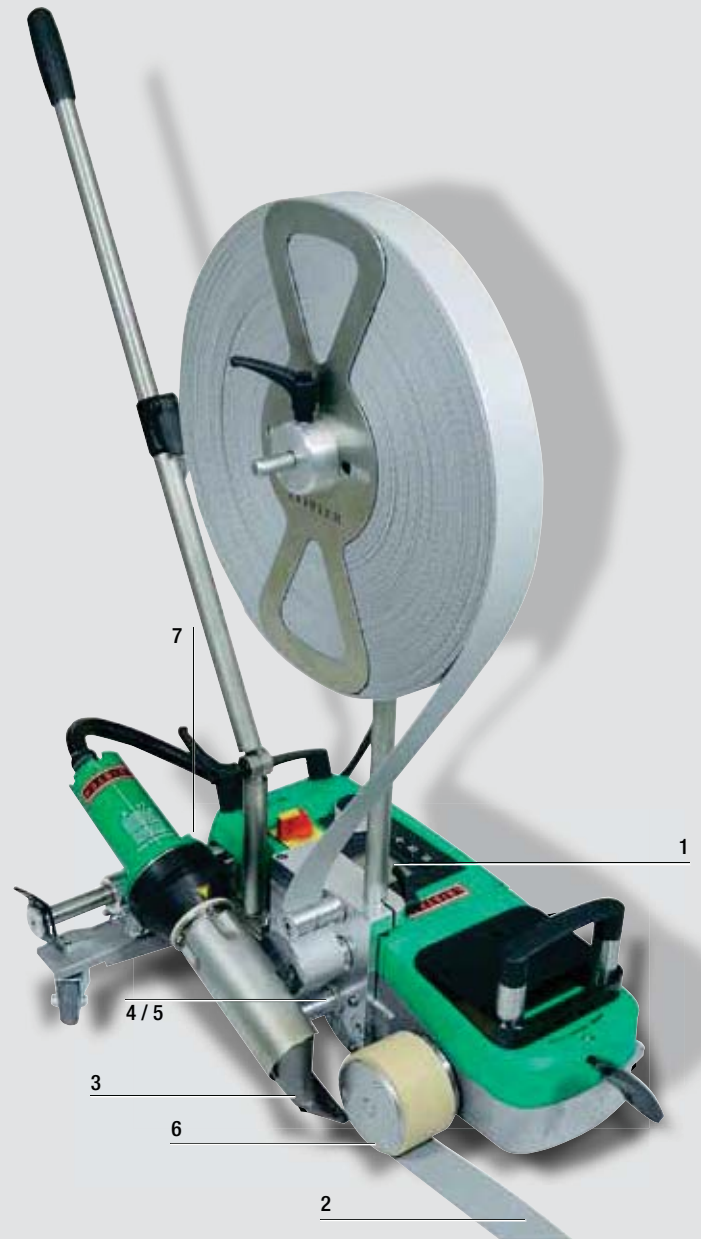
	142.650 Hem / piping welding kit complete, comprising:
	142.221 Hold-down device
	141.326 Piping roll
	140.530 Hem / piping add-on part
	148.961 Conversion kit, VARIANT T1 Overlap to VARIANT T1 TAPE 1.0 inch
	148.962 Conversion kit, VARIANT T1 Overlap to VARIANT T1 TAPE 2.0 inch
	139.438 Additional weight 10 lbs
	116.798 Brass brush
	140.771 Overlap welding nozzle 0.8 inch
	141.558 Overlap welding nozzle 1.6 inch
	140.429 1.0 inch pressure roller complete
	138.938 1.8 inch pressure roller complete
	142.705 Sturdy storage case
	107.612 Heating elements 230 V
	107.613 400 V

Technical Textiles & Industrial Fabrics

VARIANT T1 TAPE: Quality, productivity, ergonomic.

Used for welding reinforcement and anti-vandalism tapes in vehicle tarpaulin production. Thanks to the "e-Drive" operating concept, setting the relevant welding parameters couldn't be easier. The tape holder and the newly developed guide rollers guide the tape under the pressure roller, keeping it taut right up to the final inch.

1		<p>User-friendly: Clear display plus "e-Drive" and storable welding parameters</p>
2		<p>Highly flexible: Conversion kits make it possible to work with different types of tape: 2.0 inch reinforcement and 1.0 inch anti-vandalism tapes (see image).</p>
3		<p>High-tech nozzles: The new nozzle design ensures safe, reliable welding.</p>
4		<p>Feeding to perfection: The new guide rollers make it easy to position the material and keep it taut right up to the final inch.</p>
5		<p>A tight grip: The swiveling tape clamping lever keeps the material extra-taut.</p>
6		<p>Dual-action: The pressure roller can easily be converted from a 2.0 inch width to a 1.0 inch one (anti-vandalism tape) or vice versa.</p>
7		<p>Optional: The laser guide keeps the VARIANT T1 TAPE firmly on course.</p>



VARIANT T1 TAPE 2.0 inch





An economical, ergonomic tool for welding reinforcement tapes.

Tape hot-air welder

VARIANT T1 TAPE



- Fastest, most precise automatic tape welding tool (up to 59 ft/min)
- "e-Drive" operating unit
- Easy to use
- Taut tape guidance
- Kits for converting VARIANT T1 Overlap to 1.0 or 2.0 inch TAPE

Technical Data

Voltage	V~	230	400
Power	W	3680	5700
Temperature	°F	212 – 1148	
Air flow range	%	50 – 100	
Speed	ft/min	4.9 – 59	
Welding seam width	inch	2.0 or 1.0	
Size (L x W x H)	inch	27.5 x 16.3 x 3.3	
Weight	lbs	62 (with 4.9 ft cord)	
Conformity mark		CE	
Approval mark		E	
Certification scheme		CCA	
Protection class I		⏚	

Article No.:

- 148.963 VARIANT T1 TAPE 1.0 inch, 230 V / 3680 W, with Euro plug
 - 148.964 VARIANT T1 TAPE 2.0 inch, 230 V / 3680 W, with Euro plug
 - 148.965 VARIANT T1 TAPE 1.0 inch, 400 V / 5700 W, with Euro plug
 - 148.966 VARIANT T1 TAPE 2.0 inch, 400 V / 5700 W, with Euro plug
- Additional versions available upon request.

Accessories VARIANT T1 TAPE

	149.652 Conversion kit VARIANT T1 TAPE 1.0 inch to VARIANT T1 TAPE 2.0 inch: 1 nozzle, 4 guide rollers, 1 gauge
	149.653 Conversion kit VARIANT T1 TAPE 2.0 inch to VARIANT T1 TAPE 1.0 inch: 1 nozzle, 4 guide rollers, 1 gauge
	149.654 Conversion kit VARIANT T1 TAPE to VARIANT T1 Overlap 0.8 inch
	149.655 Conversion kit VARIANT T1 TAPE to VARIANT T1 Overlap 1.6 inch
	149.100 Magnetic tool holder
	149.344 Laser guide (available Jan. 2014)
	139.438 Additional weight 6.6 lbs
	116.798 Brass brush
	107.612 Heating elements 230 V 107.613 400 V

Technical Textiles & Industrial Fabrics

UNIPLAN: Just perfect.

The small, lightweight and handy hot-air welder produces perfect welding results. UNIPLAN E is electronically controlled for reproducible results.



The handy partner for precise welding: UNIPLAN E.

Hot-air welder

UNIPLAN E / UNIPLAN S



UNIPLAN E

- Small, lightweight and handy
- High welding speed
- Reproducible welding results (UNIPLAN E)
- Handy, robust case included in delivery
- Digital display (UNIPLAN E)

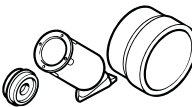
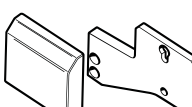
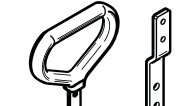
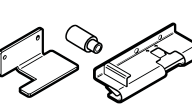
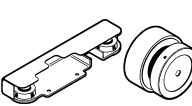
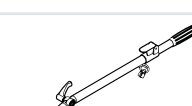







Technical Data

Voltage	V~	120
Power	W	1800
Temperature	°F	68 – 1148
Speed	ft/min	3.3 – 24.6
Air flow range	%	50 – 100 (for UNIPLAN E steplessly)
Welding seam width	inch	0.8 or 1.2
Size (L x W x H)	inch	16.5 x 10.6 x 8.3
Weight	lbs	25.3 (with 10 ft cord)
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓢ

Article No.:

- 115.044 UNIPLAN E 0.8 inch, 120 V / 1800 W, without plug
 - 115.043 UNIPLAN E 1.2 inch, 120 V / 1800 W, without plug
 - 115.056 UNIPLAN S 1.2 inch, 120V / 1800 W, without plug
- Additional versions available upon request.

Accessories UNIPLAN E / UNIPLAN S

	115.065 0.8 inch overlap welding unit
	115.066 1.2 inch overlap welding unit
	115.067 Weight with holder
	115.839 Handle with holder and screws
	119.933 0.8 inch hem welding kit
	119.934 1.2 inch hem welding kit
	122.013 Hem cord welding kit with lifting (for units built prior to 2004)
	122.016 Hem cord welding kit without lifting (for units built from 2004 on)
	147.836 Guide bar complete
	116.798 Brass brush to clean nozzle
	126.448 Sturdy storage case (included with purchase)
	103.602 120 V / 1800 W heating element, for UNIPLAN E
	101.913 120 V / 1800 W heating element, for UNIPLAN S



UNIPLAN Wedge: The quiet.

The quiet UNIPLAN WEDGE is the perfect machine for all critical materials. The innovative laser guide ensures flawless welding.



For accurately welded seams on technical Textiles.

Wedge welder

UNIPLAN WEDGE



- Low noise
- High welding speed
- Portable and lightweight
- Easy, comfortable operation
- Digital display of welding speed and temperature

Technical Data

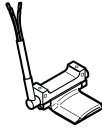
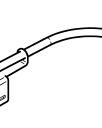


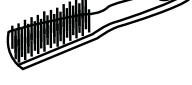
Voltage	V~	120
Power	W	1800
Temperature	°F	176 – 790
Speed	ft/min	3.3 – 24.6
Welding seam width	inch	0.8 or 1.2
Size (L x W x H)	inch	16.5 x 10.6 x 8.3
Weight	lbs	25.3 (with 10 ft cord)
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓛ

Article No.:

- 116.973 UNIPLAN Wedge, 0.8 inch laser guide, 120 V / 900 W, without plug
 116.976 UNIPLAN Wedge, 1.2 inch laser guide, 120 V / 900 W, without plug

Additional versions available upon request.

Accessories UNIPLAN WEDGE

	127.992 0.8 inch hot wedge
	127.989 1.2 inch hot wedge
	116.506 Laser guide (included with purchase)
	116.231 De-reeler for acrylic tape
	116.798 Brass brush to clean nozzle

Technical Textiles &
Industrial Fabrics



TAPEMAT: The power pack.

For rapid economical strip welding of truck covers and industrial curtains. Very fast strip welder at up to 66 ft per minute.



Welding tape at maximum speed.

Tape hot-air welder TAPEMAT



- High welding speed
- Process-optimized nozzle
- Maintenance-free, brushless blower
- Intuitive operation and simple handling

Technical Data

Voltage	V~	3 × 400
Power	kW	10
Temperature	°F	~ 1200
Speed	ft/min	13 – 66
Welding seam width	inch	2.0
Size (L × W × H)	inch	22 × 17 × 14.6
Weight	lbs	88
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		⊕

Article No.:

129.757 TAPEMAT 2.0 inch, 400 V / 10 kW, with 16A CEE plug

Spriegel hot-air welder TAPEMAT SPIEGEL



- Top welding speed
- Process-optimized high-precision nozzle
- Maintenance-free, brushless blower
- Easy to exchange counter-pressure roller
- Constant tarpaulin bow tension

Technical Data

Voltage	V~	3 × 400
Power	kW	10
Temperature	°F	~ 1200
Speed	ft/min	13 – 66
Welding seam width max.	inch	2 × 0.8
Band with	inch	4 / 5
Size (L × W × H)	inch	22 × 17 × 14.6
Weight	lbs	88
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		⊕

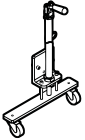

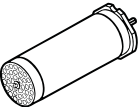
Article No.:

138.229 TAPEMAT Spriegel 4.0 inch, 400 V / 10 kW, with 16A CEE plug
133.597 TAPEMAT Spriegel 5.0 inch, 400 V / 10 kW, with 16A CEE plug

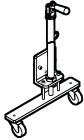


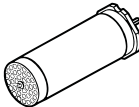


Tarpaulin bows for fixed and sliding rooftops of trucks.
 (picture: Krone)

Accessories TAPEMAT

	138.242 Lifting device
	131.690 2.0 inch welding nozzle
	101.991 3 x 400 V / 3 x 3300 W heating element

Accessories TAPEMAT SPIEGEL

	138.242 Lifting device
	137.412 4.0 inch welding nozzle, complete
	135.392 4.9 inch welding nozzle, complete weldseam 0.8 inch left and right
	101.991 3 x 400 V / 3 x 3300 W heating element





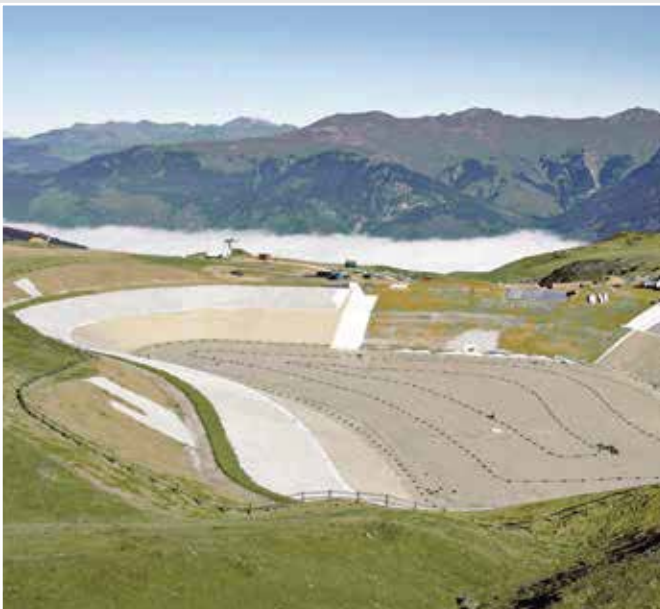
Civil Engineering / Tunneling / Landfills

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Hot Air Tools for Roofing

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Product overview wedge welder for Civil Engineering / Tunneling / Landfills

								
Device type	ASTRO	ASTRO USB	COMET	COMET USB	TWINNY T	TWINNY T USB	TWINNY S	TRIAC DRIVE AT
Max. Voltage V~	230	230	230	230	230	230	230	230
Max. Power W	1800	1800	1800 / 1500 / 1200	1800 / 1500 / 1200	2300	2300	2900	1700
Temperature °F	176 – 788	176 – 788	176 – 788	176 – 788	176 – 1040	176 – 1040	176 – 1040	176 – 1202
Speed ft/min	2.6 – 16.4	2.6 – 16.4	2.6 – 10.5	2.6 – 10.5	2.6 – 10.5	2.6 – 10.5	0.7 – 2.5 (13.0 ¹)	1.6 – 9.8
Welding pressure N	100 – 1500	100 – 1500	100 – 1000	100 – 1000	100 – 1000	100 – 1000	1000 (500)	n.a.
Weld seam width inch	2 × 0.6	2 × 0.6	2 × 0.6	2 × 0.6	2 × 0.6	2 × 0.6	2 × 0.6	1.2
Material thickness mil	60 – 120	60 – 120	20 – 120	20 – 120	20 – 120	20 – 120	20 – 120	20 – 120
Size (L × W × H) inch	17 × 11 × 12	17 × 11 × 12	12 × 10 × 10	12 × 10 × 10	13 × 14 × 10	13 × 14 × 10	14 × 15 × 11	12 × 9 × 15
Weight lbs (with 10 ft cable)	50.0	50.0	16.5	16.5	15.2 – 17.4	15.2 – 17.4	15.2 – 17.4	9
Conformity mark	CE	CE	CE	CE	CE	CE	CE	CE
Approval mark	§	§	§	§	§	§	§	§
Certification scheme	CCA	CCA	CCA	CCA	CCA	CCA	CCA	CCA
Protection class	⊕	⊕	⊕	⊕	⊕	⊕	□	□
Welding technologies								
Hot-wedge welding	✓	✓	✓	✓				
Combi-wedge welding					✓	✓	✓	
Hot-air welding								✓
Features								
Temperature regulation	✓	✓	✓	✓	✓	✓		✓
Drive regulation	✓	✓	✓	✓	✓	✓		✓
Temperature and drive infinitely adjustable	✓	✓	✓	✓	✓	✓	✓	✓
USB data recording		✓		✓		✓		
Digital display	✓	✓	✓	✓	✓	✓		✓
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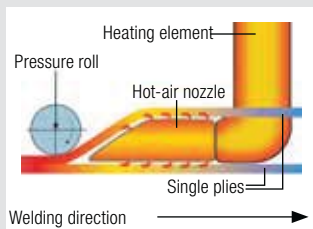
¹with drive 144:1

Product overview – manual extrusion welders

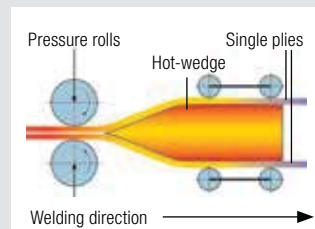
					
Device type	WELDPLAST S6	WELDPLAST S4	WELDPLAST S2	FUSION 3	FUSION 3C
Max. Voltage V~	230	230	230	230	230
Max. Power W	4600	3680	3000	3500	2800
Material	PE / PP	PE / PP	PE / PP / TPO ²	PE / PP	PE / PP
Welding rod inch	∅ 0.16 – ∅ 0.2	∅ 0.12 – 0.16 / ∅ 0.16 – 0.2	∅ 0.12 – ∅ 0.16	∅ 0.12 – 0.16 / ∅ 0.16 – 0.2	∅ 0.12 – 0.16 / ∅ 0.16 – 0.2
Output lbs/hr	8.6 – 13.2	3.3 – 8.8	1.1 – 5.1	4 – 7.9	4 – 7.9
Size (L × W × H) inch	32.8 × 4.6 × 9.6	22.0 × 4.3 × 11.8	17.7 × 3.9 × 10	26.4 × 3.5 × 7.1	23 × 3.9 × 8.9
Weight lbs	30.8	19	13	16	15
Conformity mark	CE	CE	CE	CE	CE
Approval mark	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ
Certification scheme	CCA	CCA	CCA	CCA	CCA
Protection class II	Ⓢ	Ⓢ	Ⓢ	□	□
Features					
Maintenance-free blower	✓	✓	✓		
Multifunction display	✓	✓	✓		
Adjustable grip	✓	✓	✓	✓	✓
Catalog page	68	69	70	71	71

² Alternative: WELDPLAST S2 TPO

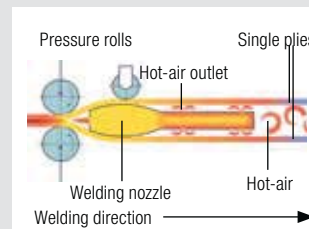
Hot-air welding



Hot-wedge welding



Combi-wedge welding

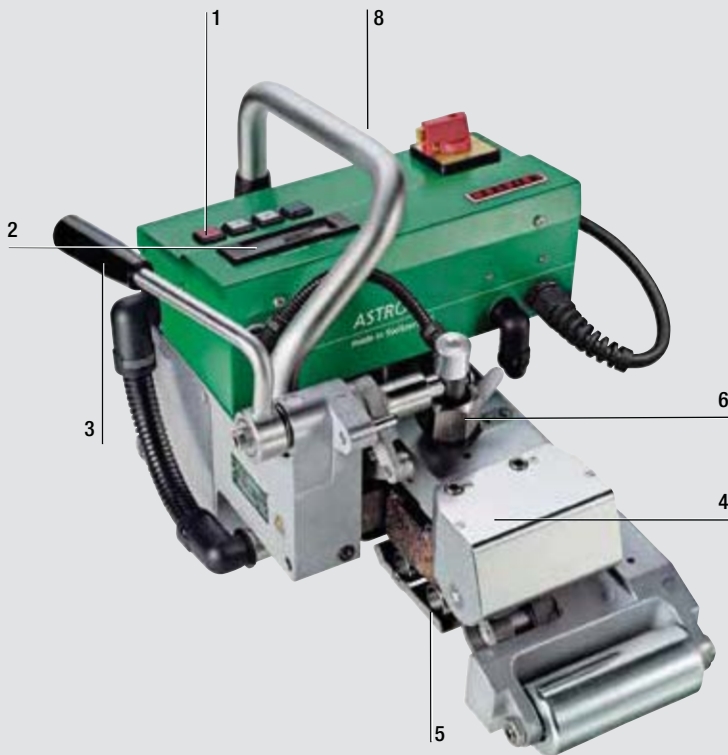











ASTRO / ASTRO USB: The thoroughbred.

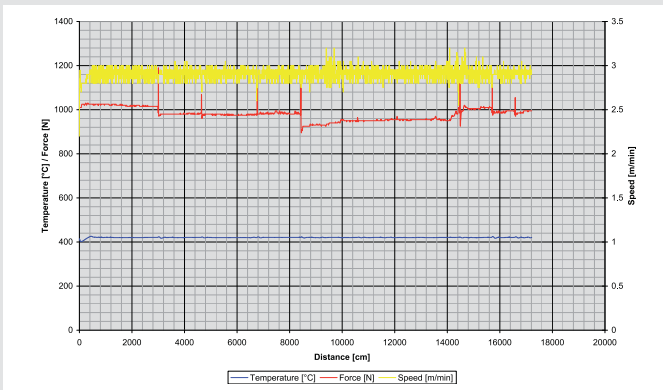
The ASTRO and ASTRO USB are used anywhere all over the world. They weld up to 16 feet per minute. Its robust design and easy handling make it the perfect workhorse. The ASTRO USB allows for the consistent recording of all relevant welding parameters.

Wedge welder

ASTRO USB



1		Simple operation All functions can be accessed and controlled by just a few buttons.
2		Display Allows the user to control and monitor all the parameters at any given time!
3		One-handle operation Simultaneous operation of clamping lever and hot-wedge.
4		Pendulum head Perfect pressure distribution of both welding tracks.
5		Hot wedge Sufficient capacity reserve and optimal welding speed due to high capacity cartridge type heaters.
6		Pressure sensor Precise pressure sensor for optimal process control.
7		Acoustic alarm Safer working with limit value monitoring.
8		USB memory system Recording all relevant welding parameters becomes childs play with the USB memory system.
9		Handy storage case Convenient transport – perfect protection. (Included with purchase)



Graphical evaluation of a weld seam (length 560 ft).



Fast and perfect!



ASTRO CPL special version for concrete protective liners.

Wedge welder

ASTRO



- High welding capacity
- Digital display of temperature, velocity and mains voltage
- Stepless adjustment of welding pressure
- Closed-loop control of temperature and drive

Wedge welder

ASTRO USB



- Digital display of pressure
- Acoustic alarm if limit value is exceeded
- USB memory system

Technical Data

Voltage	V~	230
Power	W	1800
Temperature	°F	176 – 788
Speed	ft/min	2.6 – 16.4
Welding pressure	N	100 – 1500
Weld seam width	inch	2 × 10.6
Material thickness	mil	60 – 120
Size (L × W × H)	inch	17 × 11 × 12
Weight	lbs	50.0 (with 10 ft cable)
Conformity mark		CE
Approval mark		§
Certification scheme		CCA
Protection class I		⊕

Article No.:

117.100 ASTRO, 230 V / 1800 W, roller 2.0 inch, with test channel, with Euro plug, sturdy storage case

Included with purchase: Welder, manual, storage case

Technical Data

Voltage	V~	230
Power	W	1800
Temperature	°F	176 – 788
Speed	ft/min	2.6 – 16.4
Welding pressure	N	100 – 1500
Weld seam width	inch	2 × 0.6
Material thickness	mil	60 – 120
Size (L × W × H)	inch	17 × 11 × 12
Weight	lbs	50.0 (with 10 ft cable)
Conformity mark		CE
Approval mark		§
Certification scheme		CCA
Protection class I		⊕

Article No.

141.126 ASTRO USB, 230 V / 1800 W, roller 2.0 inch, with test channel, with Euro plug, sturdy storage case

Included with purchase: Welder, manual, memorystick, storage case

COMET / COMET USB: The highflyers.

This compact heavy-duty welding machine is in use worldwide. The small powerhouse is specially designed for the demands of landfills sites, mines and tunnels. Documentation made simple: COMET USB's memory system is designed for use on construction sites. Because this compact hot-wedge welding machine records all relevant welding parameters, data transfer is mere child's play.

Wedge welder

COMET



- Lightweight and compact
- Digital display of temperature and velocity
- Closed loop control of temperature and drive
- Easy and user friendly

Technical Data

Voltage	V~	120 / 230
Power	W	1850 / 1500 / 1200
Temperature	°F	176 – 788
Speed	ft/min	2.6 – 10.5
Welding pressure	N	100 – 1000
Weld seam width	inch	2 × 0.59, with test channel
Material thickness	mil	20 – 120
Size (L × W × H)	inch	12 × 10 × 10
Weight	lbs	16.5 (with 10 ft cable)
Conformity mark		CE
Approval mark		Ⓢ
Protection class I		⊕

Article No.:

107.547	COMET, with 2.0" wedge for PE, 230 V / 1200 W *
107.538	COMET, with 2.7" wedge for PE, 230 V / 1500 W *
145.893	COMET, with 3.7" wedge for PE 230 V / 1850 W *
107.558	COMET, with 2.0" wedge for PVC, 230 V / 1200 W *
107.553	COMET, with 2.0" wedge for PE, 120 V / 1200 W *
107.539	COMET, with 2.7" wedge for PE, 120 V / 1500 W *

Included with purchase: Welder, manual, guide-bar short, storage case.

* = with test channel, EURO plug

Wedge welder

COMET USB



- Digital display of welding pressure
- Complete recording of all relevant welding parameters.
- USB memory system designed for use on construction sites
- Convenient data transfer

Technical Data

Voltage	V~	230
Power	W	1850 / 1500 / 1200
Temperature	°F	176 – 788
Speed	ft/min	2.6 – 10.5
Welding pressure	N	100 – 1000
Weld seam width	inch	2 × 0.59, with test channel
Material thickness	mil	20 – 120
Size (L × W × H)	inch	12 × 10 × 10
Weight	lbs	16.5 (with 10 ft cable)
Conformity mark		CE
Approval mark		Ⓢ
Protection class I		⊕

Article No.:

137.626	COMET USB, with 2.0" wedge for PE, 230 V / 1200 W *
138.088	COMET USB, with 2.7" wedge for PE, 230 V / 1500 W *
146.052	COMET USB, with 3.7" wedge for PE, 230 V / 1850 W *

Included with purchase: Welder, manual, guide-bar short, memorystick, storage case

* = with test channel, EURO plug



Comet operating in the tunnel ...



... or on a landfill site.

Accessories COMET / COMET USB

	<p>112.974 Extremely light cross handle, material: aluminum</p>
	<p>129.224 Guide-bar, complete</p>
	<p>110.715 Tool set consists of hexagon spanner 0.3 / 0.4 / 0.5 / 0.7 inch and hexagon bolt 0.12 / 0.16 / 0.24 inch</p>
	<p>115.905 USB memory stick</p>



Perfectly protected in the storage case.

126.448
(included with purchase)



Civil Engineering /
Tunneling / Landfills

Fields of application COMET / COMET USB

Power	1850 W		1500 W		1200 W	
	Wedge	Material thickness	Wedge	Material thickness	Wedge	Material thickness
PE-HD, PE-C, PP	2.7 inch copper	60 – 80 mil	2.7 inch copper	60 – 80 mil	2.0 inch copper	20 – 60 mil
PE-LD	2.7 inch copper	80 – 120 mil	2.7 inch copper	80 – 120 mil	2.0 inch copper	40 – 80 mil
PVC-P			2.7 inch steel	80 – 120 mil	2.0 inch steel	40 – 80 mil

TWINNY T / TWINNY T USB: The little all-rounders.

The TWINNY T is excellent for welding PVC and other thin or soft membranes. It is available either with or without air-test channel. The TWINNY T USB, which makes data storage and display easy with a USB flash memory system, is perfect for critical applications where constant real-time monitoring of primary weld conditions can be stored and displayed.

Combi-wedge welder

TWINNY T



- Simple operation
- High welding speed
- Digital display of temperature and velocity
- Closed-loop control of temperature and drive
- Perfect welding result even in harsh environmental conditions thanks to hot-air system.

Technical Data

Voltage	V~	230 / 120
Power	W	2300 / 1900
Temperature	°F	68 – 1040
Speed	ft/min	2.6 – 10.5
Welding pressure	N	100 – 1000
Size (L x W x H)	inch	13 x 14 x 10
Weight	lbs	6.9 – 7.9 (with 10 ft cable)
Conformity mark		CE
Approval mark		Ⓢ
Protection class I		Ⓛ

Article No.:

107.562	TWINNY T for civil engineering, 230 V / 2300 W, with test channel, with combi-wedge long, with Euro plug
107.564	TWINNY T for civil engineering, 230 V / 2300 W, with test channel, with combi-wedge short, with Euro plug
111.190	TWINNY T for tunnel construction, 230 V / 2300 W, with test channel, with combi-wedge short, with Euro plug
113.362	TWINNY T for tunnel construction, 120 V / 1900 W, with test channel, with combiwedge short, with UK plug

Included with purchase:

Cvile engineering version: Welder, manual, guide-bar long (129.224), storage case
Tunneling version: Welder, manual, guide-bar short, storage case

Combi-wedge welder

TWINNY T USB



- Digital display of welding pressure
- Complete record of all relevant welding parameters
- USB memory system
- Data transfer made simple

Technical Data

Voltage	V~	230
Power	W	2300
Temperature	°F	176 – 1040
Speed	ft/min	2.6 – 10.5
Welding pressure	N	100 – 1000
Size (L x W x H)	inch	13 x 14 x 10
Weight	lbs	6.9 – 7.9 (with 10 ft cable)
Conformity mark		CE
Approval mark		Ⓢ
Protection class I		Ⓛ

Article No.:

138.089	TWINNY T USB for civil engineering, 230 V / 2300 W, with test channel, with combi-wedge long, with Euro plug
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Included with purchase:

Civil engineering version: Welder, manual, guide-bar long (129.224), USB-memory stick, storage case

Tunneling version: Welder, manual, guide-bar short (129.224), storage case
Additional versions (incl. 120 V) available upon request.

TWINNY S: Perfect weight.

This lightweight tool is optimized for overhead welding and is ideal for thin materials used in civil engineering and tunnel construction. Leister offers a choice between replaceable combi-wedges with or without test channel.



TWINNY T, with convenient cross-handle, at work overhead welding in a tunnel.

Combi-wedge welder

TWINNY S



- Simple operation
- Lightweight
- High welding speed
- Stepless adjustment of temperature and drive
- Perfect welding result even in harsh environmental conditions thanks to hot-air system.

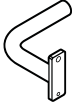

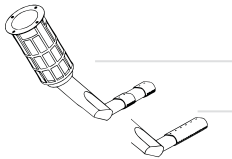
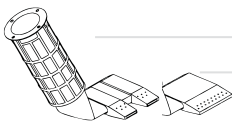
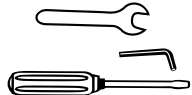



Technical Data

Voltage	V~	120 / 230
Power	W	2900
Temperature	°F	176 – 1110
Speed	ft/min (drive 256:1)	0.7 – 8.2
	(drive 144:1)	4.6 – 13 (20)
Welding pressure	N (256:1 / 144:1)	1000 / 500
Size (L x W x H)	inch	14 x 15 x 11
Weight	lbs	14 – 15 (with 10 ft cable)
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class II		□

Article No.:

119.031	TWINNY S for tunnel construction, drive 256:1, 230 V / 2900 W, with test channel, combi-wedge long, Euro plug
119.027	TWINNY S for civil engineering, drive 256:1, 230 V / 2900 W, with test channel, combi-wedge long, Euro plug
119.008	TWINNY S for civil engineering, drive 144:1, 230 V / 2900 W, with test channel, combi-wedge short, Euro plug
128.808	TWINNY S for civil engineering, drive 144:1, 19 ft/min, 230 V / 2900 W, with test channel, combi-wedge short, Euro plug
119.039	TWINNY S for tunnel construction, drive 256 : 1, 120V/1900W, with test channel, combiwedge long, w/o plug

Accessories TWINNY T / T USB / TWINNY S

	112.974 Cross handle extremely light, material: aluminum
	129.224 Guide bar, complete
	Combi-wedge short 100.517 2.0 inch, with test channel 100.519 1.2 inch, with test channel 100.518 2.0 inch, without test channel 100.520 1.2 inch, without test channel
	Combi-wedge long, complete 100.525 2.0 inch, with test channel 100.526 2.0 inch, without test channel, slotted, perforated
	110.715 Tool set consists of hexagon spanner 0.3 / 0.4 / 0.5 / 0.7 inch and 0.12 / 0.16 / 0.24 inch
	115.905 USB memory stick TWINNY T USB
	126.448 Storage case (included with purchase)
	103.604 230 V / 2100 W heating element, TWINNY T / T USB
	103.602 120 V / 1800 W heating element, TWINNY T / T USB
	101.905 230 V / 2750 W heating element, TWINNY S
	101.910 230 V / 2100 W heating element, TWINNY S
	101.913 120 V / 1800 W heating element, TWINNY S

Included with purchase:

Cvile engineering version: Welder, manual, guide-bar long (129.224), storage case
Tunneling version: Welder, manual, guide-bar short, storage case

TRIAC DRIVE AT: The little all-rounder

This semiautomatic hot-air welder that's truly one of a kind. Its flexible concept enables the TRIAC DRIVE AT to be used in all kinds of applications.



The perfect choice for welding joint sealing tape.

Semiautomatic hot-air welder

TRIAC DRIVE AT



- Consistent and up to 3x faster than hand welding
- Unique semiautomatic welding machine
- Can perform automatic welding in places other devices can't reach
- With guide, inside or outside nozzle for all precision work in tunnels (available as optional accessory)

Technical Data


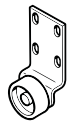



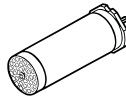
Voltage	V~	230
Power	W	1700
Temperature	°F	176 – 1202
Speed	ft/min	1.6 – 9.8
Air flow	cfm	(68 °F) 4.2 – 8.5
Size (L x W x H)	inch	12 x 9 x 15
Weight (with 10 ft cable)	lbs	9.1
Conformity mark		CE
Protection class II		□

Article No.:

- 117.331 TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, width of welding nozzle 1.2 inch, without grip, pressure roller silicone, EURO-plug
- 148.606 TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, width of welding nozzle 0.5 inch, with grip, pressure roller steel, EURO-plug
- 148.605 TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, width of welding nozzle 1.5 inch, without grip, pressure roller steel, EURO-plug
- 115.125 TRIAC DRIVE S without guiding help, 100-120 V 1600 W, nozzle outside, 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
	115.281 1.5 inch, with grip
	115.279 1.2 inch, with grip
	115.699 0.5 inch, without grip
	115.703 1.5 inch, without grip
	115.701 1.2 inch, without grip
	Overlap welding nozzle, outside, push-fit
	115.280 1.5 inch, with grip
	115.278 1.2 inch, with grip
	115.702 1.5 inch, without grip
	115.700 1.2 inch, without grip
	108.985 Storage case (included with purchase)
	142.637 230 V / 1550 W heating element for TRIAC AT



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.



Seam tests can be conducted in the labor on-site with the EXAMO USB.

Tensiometer

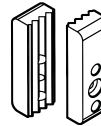
EXAMO USB



Accessories EXAMO USB



134.832 Testing and calibration kit to test and calibrate your EXAMO USB



108.185 Jaw kit 2.36 inch for geotextiles including two pairs of jaws



115.905 USB Memory-stick

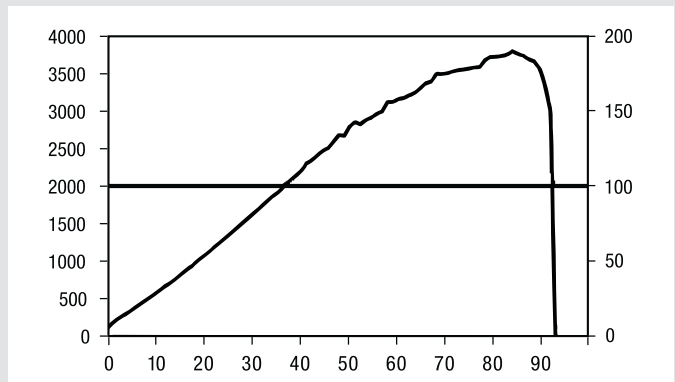
- Construction-site approved
- Handy, robust and reliable
- Testing of elongation, peak force, tear force, test speed and position
- With jaws also suitable for geo textiles (see accessories)

Technical Data

Type		300F	600F
Voltage	V~	230	120
Power	W	200	200
Tensile load	N	4000	4000
Jaw spacing	inch	0.2 – 11.8	0.2 – 26.6
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 (case)	41 x 11 x 7 (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
 139.063 EXAMO 600F USB, 120 V / 200 W, incl. USB memory stick, without plug



Visualization of an EXAMO USB report.

WELDPLAST S6: The workhorse.

WELDPLAST S6 is the world's highest rated handheld extrusion welder. With an output of 13 lbs/hr, it is surprisingly maneuverable. It features a brushless, preheat motor, multifunction display and comfortable ergo-grip, making the S6 Leister's flagship extrusion welder.



WELDPLAST S6 undertaking assembly applications on a landfill site.

Digitally regulated extrusion welder

WELDPLAST S6



- 13 lbs output per hour
- Highest possible preheating capacity
- Adjustable control wheel
- Maintenance-free hot-air blower
- Multifunctional display

Technical Data

Voltage	V~	230
Power	W	4600
Material		PE / PP
Welding rod	inch	∅ 0.16 – ∅ 0.2
Output	lbs/h	8.6 – 13.2
Size (L × W × H)	inch	32.8 × 4.6 × 9.6
Weight	lbs	30.8
Conformity mark		CE
Approval mark		Ⓢ
Protection class I		Ⓛ

Article No.:

134.318 Extrusion Welder WELDPLAST S6, 230 V / 4600 W, with CEE 32A plug

Included with purchase: WELDPLAST S6, overlap welding shoe, storage case

Accessories WELDPLAST S6

	146.239	Welding shoe complete
	146.240	2 × 1.6 × 1.5 inch blank welding shoe
	146.241	1.0 inch overlap
	146.242	1.4 inch overlap
	145.899	1.6 inch overlap
	146.245	0.8 inch V-seam
	146.246	1.0 inch V-seam
	146.247	1.2 inch V-seam
	146.232	0.8 inch fillet weld seam (a = 0.5 inch*)
	146.233	1.0 inch fillet weld seam (a = 0.7 inch*)
	146.234	1.2 inch fillet weld seam (a = 0.8 inch*)
	146.644	Corner outside seam 0.4 inch
	146.646	Corner outside seam 0.5 inch
	146.652	Corner outside seam 0.6 inch
	146.230	Corner seam ∅ 0.5 inch
	146.218	Corner seam ∅ 0.8 inch
	144.905	45° angled adapter
	145.705	90° angled adapter
Caution: You must use welding shoes with an integrated air guide for this.		
	117.055	1.4 inch preheating nozzle, large
	136.859	2.0 inch preheating nozzle, XL large
	117.790	Side hot-air guide
	116.367	Ultra strong storage case WELDPLAST S6 (included with purchase)

* a = welding seam thickness

WELDPLAST S4

The WELDPLAST S4 is the first extrusion welder of its kind with brushless, maintenance-free motor for generating preheated air. Output of up to 8.8 pounds per hour is made possible thanks to the S4's powerful drive system.



The powerful WELDPLAST S4 at work.

Digitally regulated extrusion welder

WELDPLAST S4



- Compact housing design reduces noise and guarantees optimal cooling for the electronics and drive.
- Microprocessor to regulate the welding process and to monitor the tool
- Menu with function programs
- Dual-sided twist-free wire intake
- Maintenance-free blower

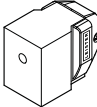

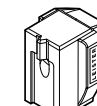











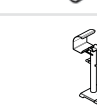
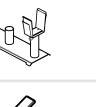

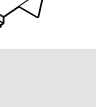
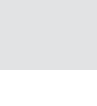


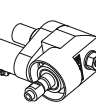




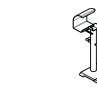

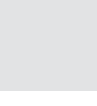
Technical Data

Voltage	V~	230
Power	W	3680
Material		PE / PP
Welding rod	inch	Ø 0.12 – 0.16 / Ø 0.16 – 0.2
Output	lbs/h	3.3 – 8.8
Size (L × W × H)	inch	22 × 4.3 × 11.8
Weight	lbs	19.2
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		⊕

Article No.:

- 146.812 WELDPLAST S4, 230 V / 3680 W, 0.16–0.2 inch, top hot air guide, overlap welding shoe 1.6 inch, preheating nozzle large, with Euro plug, storage case
- 116.948 WELDPLAST S4, 230 V / 3680 W, 0.12–0.16 inch, side hot air guide, blank welding shoe, preheating nozzle large, medium and small, with Euro plug, storage case

Accessories WELDPLAST S4

	146.239	Welding shoe complete
	146.240	2.8 × 2 × 1.9 inch blank welding shoe
	146.241	1.0 inch overlap
	146.242	1.4 inch overlap
	145.899	1.6 inch overlap
	146.243	0.5 inch V-seam
	146.244	0.6 inch V-seam
	146.245	0.8 inch V-seam
	146.246	1.0 inch V-seam
	146.247	1.2 inch V-seam
	146.231	0.6 inch fillet weld seam (a = 0.4 inch*)
	146.232	0.8 inch fillet weld seam (a = 0.5 inch*)
	146.233	1.0 inch fillet weld seam (a = 0.7 inch*)
	146.234	1.2 inch fillet weld seam (a = 0.8 inch*)
	146.642	Corner outside seam 0.3 inch
	146.644	Corner outside seam 0.4 inch
	146.646	Corner outside seam 0.5 inch
	146.652	Corner outside seam 0.6 inch
	146.230	Corner seam Ø 0.5 inch
	146.218	Corner seam Ø 0.8 inch
	144.904	45° angled adapter
	145.704	90° angled adapter
Caution: You must use welding shoes with an integrated air guide for this		
	117.064	Side hot-air guide
	117.065	Top hot-air guide
	117.053	preheating nozzle small, 0.8 inch
	117.518	medium, 1.0 inch
	141.177	large, 1.4 inch
	118.804	Tool rest
	136.231	Pre-heat reflector

* a = welding seam thickness

WELDPLAST S2: The masterpiece.

The WELDPLAST S2 is a compact, ergonomically designed workhorse. The handy size extruder puts out over four pounds per hour and can even weld TPO materials without difficulty.



The robust WELDPLAST S2 welding a patch in a tunneling application.

Digitally regulated extrusion welder

WELDPLAST S2 / S2 TPO



- Maintenance-free blower
- Perfect weld seam quality
- Multifunctional display
- Ergonomic and handy
- Successfully operated worldwide

Technical Data

Voltage	V~	230
Power	W	3000
Material standard version		PE / PP
Welding rod	inch	∅ 0.12 – ∅ 0.16
Output ∅ 0.12 inch	lbs/h	PE: 1.3 – 2.9 PP: 1.1 – 2.65
Output ∅ 0.16 inch	lbs/h	PE: 2.2 – 5.0 PP: 2.0 – 4.4
Size (L × W × H)	inch	17.7 × 3.9 × 10.2
Weight	lbs	12.8
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓛ

Article No.:

127.215 WELDPLAST S2, 230 V / 3000 W, with Euro plug
 Included with purchase: WELDPLAST S2, blank welding shoe, storage case
 136.602 WELDPLAST S2, 230 V / 3000 W, TPO, with Euro plug
 Included with purchase: WELDPLAST S2, UBL-blank welding shoe, storage case

Accessories WELDPLAST S2 / S2 TPO

	145.945	Welding shoe complete
	145.946	1.8 × 1.2 × 2.1 inch blank welding shoe
	145.946	2.9 × 2.0 × 2.3 inch blank welding shoe
	145.896	1.0 inch overlap
	145.947	1.2 inch overlap
	145.897	1.4 inch overlap
	145.915	0.3 / 0.4 inch V-seam
	145.907	0.5 inch V-seam
	145.903	0.6 inch V-seam
	145.909	0.8 inch V-seam
	145.944	0.3 / 0.4 inch fillet weld (a = 0.3 inch*)
	145.812	0.6 inch fillet weld (a = 0.4*)
	145.940	0.8 inch fillet weld (a = 0.55 inch*)
	146.645	Corner outside seam 0.4 inch
	146.649	Corner outside seam 0.5 inch
	146.651	Corner outside seam 0.6 inch
	145.811	Corner seam ∅ 0.55 inch
	145.488	Corner seam ∅ 0.8 inch
	139.460	45° angled adapter
	139.461	90° angled adapter
	134.361	Air filter set (included with purchase)
	143.776	Textile dust filter (not included with purchase)
	131.451	Tool rest WELDPLAST S2
	136.231	Pre-heat reflector

* a = welding seam thickness



FUSION 3 / 3C: THE slim twins.

With its long and narrow shape, the FUSION 3 enables comfortable work, even on the floor. The somewhat shorter 3C provides an astounding output volume of up to eight pounds per hour.



Due to its length, the FUSION 3 is especially suited for civil engineering applications.

Air heated extrusion welder

FUSION 3



- High welding performance
- Compact and handy
- Motor start-up protection prevents cold start
- Dual-sided twist-free wire intake
- 360° rotatable welding shoe

Technical Data

	inch	Version Ø 0.12 – 0.16		Version Ø 0.16 – 0.2	
Welding rod Ø	inch	0.12	0.16	0.16	2.0
Output PE	lbs/h	4.4 – 5.5	5.9 – 7.9	4.6 – 5.7	5.9 – 7.9
Output PP	lbs/h	4.0 – 5.0	5.5 – 7.5	4.0 – 5.3	5.5 – 7.5
Voltage	V~	230			
Power	W	3500			
Material		PE / PP			
Size (L × W × H)	inch	26.4 × 3.5 × 7.1			
Weight	lbs	16			
Conformity mark		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		□			

Article No.:

118.300 FUSION 3, 230 V / 3500 W, welding rod Ø 0.12 – 0.16 inch, Euro plug
144.615 FUSION 3, 230 V / 3500 W, welding rod Ø 0.16 – 0.2 inch, Euro plug

Included with purchase: FUSION 3, raw welding shoe, storage case

Air heated extrusion welder

FUSION 3C



- High welding performance
- Compact and handy
- Motor start-up protection prevents cold start
- Dual-sided twist-free wire intake
- 360° rotatable welding shoe

Technical Data

	inch	Version Ø 0.12 – 0.16		Version Ø 0.16 – 0.2	
Welding rod Ø	inch	0.12	0.16	0.16	2.0
Output PE	lbs/h	4.4 – 5.5	5.9 – 7.9	4.6 – 5.7	5.9 – 7.9
Output PP	lbs/h	4.0 – 5.0	5.5 – 7.5	4.0 – 5.3	5.5 – 7.5
Voltage	V~	230			
Power	W	2800			
Material		PE / PP			
Size (L × W × H)	inch	23.2 × 3.9 × 8.9			
Weight	lbs	15.2			
Conformity mark		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		□			

Article No.:

123.866 FUSION 3C, 230 V / 2800 W, Welding rod Ø 0.12 – 0.16 inch, Euro plug
144.826 FUSION 3C, 230 V / 2800 W, Welding rod Ø 0.16 – 0.2 inch, Euro plug

Included with purchase: FUSION 3C, raw welding shoe, storage case

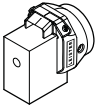
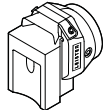

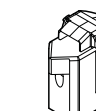
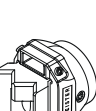









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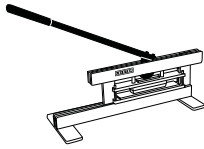
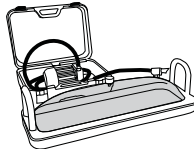

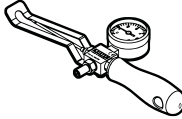


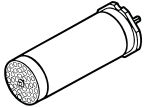


The FUSION 3 for comfortable working in upright positions.

Accessories FUSION 3 / FUSION 3C

	145.945 Welding shoe complete 1.4 x 1.2 x 2.1 inch blank welding shoe
	145.946 2.9 x 2 x 2.3 inch blank welding shoe
	145.896 1.0 inch overlap
	145.947 1.2 inch overlap
	145.897 1.4 inch overlap
	145.915 0.3 / 0.4 inch V-seam
	145.907 0.5 inch V-seam
	145.903 0.6 inch V-seam
	145.909 0.8 inch V-seam
	145.916 1.0 inch V-seam
	145.905 1.2 inch V-seam
	145.944 0.3 / 0.4 inch fillet weld (a = 0.3 inch*)
	145.812 0.6 inch fillet weld (a = 0.4 inch*)
	145.940 0.8 inch fillet weld (a = 0.55 inch*)
	145.816 1.0 inch fillet weld (a = 0.7 inch*)
	145.817 1.2 inch fillet weld (a = 0.8 inch*)
	146.643 Corner outside seam 0.3 inch
	146.645 Corner outside seam 0.4 inch
	146.649 Corner outside seam 0.5 inch
	146.651 Corner outside seam 0.6 inch
	145.811 Corner seam \varnothing 0.55 inch
	145.488 Corner seam \varnothing 0.8 inch
	148.817 45° angled adapter
	148.816 90° angled adapter
	135.082 Air filter in stainless steel FUSION 3C
	118.804 Tool rest
	136.231 Pre-heat reflector

General accessories

	145.813 COUPON CUTTER 5.9 x 0.8 inch 143.824 Spare blade 5.9 x 0.8 inch 143.826 Blade protection 143.828 Cutting plate 146.449 COUPON CUTTER 5.9 x 2.0 inch 146.468 Spare blade 5.9 x 2.0 inch 146.536 Blade protection
	146.883 VACUUM BOX, 32 x 12 inch 146.880 VACUUM PUMP, 230 V 146.882 VACUUM PUMP, 120 V 146.461 VACUUM BOX / -PUMP KIT 230 V 146.881 VACUUM BOX / -PUMP KIT 120 V
	109.795 Vacuum bell \varnothing 12.6 inch
	142.475 Testing device with injector needle 142.569 Spare needle
	144.095 Welding rod de-reeler
	Storage case 123.173 WELDPLAST S4 / FUSION 3 119.540 WELDPLAST S2 / S2 TPO / FUSION 3C (included with purchase)
	Heating element, 134.567 230 V / 2600 W, for WELDPLAST S6 109.984 230 V / 2200 W, for WELDPLAST S4 / S2 113.268 230 V / 1100 + 1100 W, for FUSION 3 123.561 230 V / 1750 W, for FUSION 3C







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WELDPLAST S1: Outstandingly compact.

With the new WELDPLAST S1 compact extruder, you can achieve perfect seam quality with plate thicknesses of 0.16 to 0.47 inch and a maximum output power of 1.76 lbs/hr (PVC: up to 2.53 lbs/hr). The double-sided, twist-free wire intake can work with 0.12 to 0.16 inch rod (3mm - 4mm). Integrated LED lighting plus the innovative operating panel are the perfect way to monitor the process of welding all typical kinds of materials (such as

Digitally regulated extrusion welder

WELDPLAST S1



1		<p>Full control: The multifunctional operating unit gives you perfect control over the welding parameters, ensures reproducible results, and guarantees more efficiency during work.</p>
2		<p>Smart features: Thanks to the integrated hanging eye, the WELDPLAST S1 can be hung on a balancer so that it is always ready at hand – preventing fatigue work.</p>
3		<p>Versatile: The WELDPLAST S1 can work with all typical kinds of plastic, such as HD-PE, LD-PE, PP, PVC-U, PVC-C, ECTFE, PVDF or PA.</p>
4		<p>Bright spot: The integrated LED operating lights gives you the perfect view of the welding process.</p>
5		<p>More options: Double-sided, twist-free wire intake for wires of 0.12 – 0.16 inch (3 – 4mm).</p>
6		<p>Flexible: The welder can alter the plastic output easily during welding. The Leister BL blower allows stepless adjustment of the air volume.</p>
7		<p>Ergonomic handling: The compact, ergonomic design allows you to work in comfort in any welding position.</p>



PE, PP, PVC, PA, PVDF or ECTFE) – at all times. The ergonomic design, which offers several grip positions and holding options, allows you to work in comfort in areas that are difficult to access.



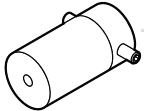
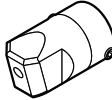


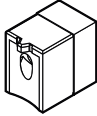


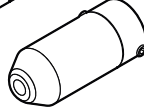
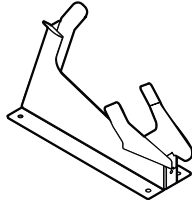
Full control, even in cramped conditions with very little light.

Digitally regulated extrusion welder

WELDPLAST S1



Accessories WELDPLAST S1

	149.430	Welding shoe complete Blank
	149.402	Fillet weld 5 / 6 (0.2 / 0.23 inch)
	148.627	Fillet weld 8 / 10 (0.3 / 0.39 inch)
	149.401	Fillet weld 12 (0.47 inch)
	149.388	V-seam 3 / 4 (0.12 / 0.16 inch)
	149.383	V-seam 5 / 6 (0.2 / 0.23 inch)
	149.385	V-seam 8 / 10 (0.3 / 0.4 inch)
	149.364	Corner
	148.923	Tool rest

- Functional, ergonomic design with comfort grip areas
- Extremely high output power of 1.76 lbs/hr (HD-PE)
- Integrated LED lighting and hanging point
- Can work with all typical kinds of plastic
- Multifunction panel with predefined welding parameters
- BL blower, adjustable air volume

Technical Data

Voltage	V~	230 / 120 / 100
Power	W	1600 / 1800 / 1500
Material		HD-PE, LD-PE, PP, PVC-U PVC-C, PVDF, ECTFE, PA
Welding rod	inch	∅ 0.12 – 0.16
Output	lbs/hr	0.44 – 1.76 (PVC up to 2.53 bs/h)
Size (L × W × H)	inch	17.1 × 3.5 × 10.4
Integrated welding profiles		HD-PE, PP, PVC-U, PVC-C, PVDF 10 free profile storage spaces
Weight	lbs	10.3
Conformity mark		CE
Certification scheme		CCA
Protection class I		⊕

Article No.:

148.396 WELDPLAST S1, 230 V / 1600 W, ∅ 0.12 – 0.16 inch, Euro plug
 148.395 WELDPLAST S1, 120 V / 1800 W, ∅ 0.12 – 0.16 inch, Euro plug
 148.394 WELDPLAST S1, 100 V / 1500 W, ∅ 0.12 – 0.16 inch, Euro plug
 Included with purchase: WELDPLAST S1, user manual, 2 pre-heating nozzles, welding shoe K10, storage case



→ Accessories page 86

WELDPLAST S6: The workhorse.

WELDPLAST S6 is the highest rated handheld extrusion welder. With an output of 13 lbs/hr, it is surprisingly maneuverable. It features a brushless, preheated motor, multifunction display and comfortable ergo-grip – making the S6 Leister's flagship extrusion welder.



The WELDPLAST S6 is guided easily with the practical control wheel grip.

Digitally regulated extrusion welder

WELDPLAST S6



- 13 lbs output per hour
- Highest possible preheating capacity
- Adjustable control wheel
- Maintenance-free hot-air blower
- Multifunctional display

Technical Data

Voltage	V~	230
Power	W	4600
Material		PE / PP
Welding rod	inch	Ø 0.16 or Ø 0.2
Output	lbs/hr	8.6 – 13.2
Size (L × W × H)	inch	32.8 × 4.6 × 9.6
Weight	lbs	30.8
Conformity mark		CE
Approval mark		Ⓢ
Protection class I		Ⓛ

Article No.:

134.318 WELDPLAST S6, 230 V / 5300 W, CEE 32A plug
Included with purchase: WELDPLAST S6, overlap welding shoe, storage case

Accessories WELDPLAST S6

	146.239	Welding shoe complete
	146.240	2.1 × 1.6 × 2 inch blank welding shoe
	146.241	1.0 inch overlap
	146.242	1.4 inch overlap
	145.899	1.6 inch overlap
	146.245	0.8 inch V-seam
	146.246	1.0 inch V-seam
	146.247	1.2 inch V-seam
	146.232	0.8 inch fillet weld seam (a = 0.5 inch*)
	146.233	1.0 inch fillet weld seam (a = 0.7 inch*)
	146.234	1.2 inch fillet weld seam (a = 0.8 inch*)
	146.644	Corner outside seam 0.4 inch
	146.646	Corner outside seam 0.5 inch
	146.652	Corner outside seam 0.6 inch
	146.230	Corner seam Ø 0.55 inch
	146.218	Corner seam Ø 0.8 inch
	144.905	45° angled adapter
	145.705	90° angled adapter
		Caution: You must use welding shoes with an integrated air guide for this
	117.055	1.4 inch preheating nozzle, large
	136.859	2.0 inch preheating nozzle, XL Large
	117.790	Side hot-air guide

*a = Welding seam thickness

➔ Accessories page 86

WELDPLAST S4: The workmate.

The WELDPLAST S4 is the first extruder of its kind with a brushless, maintenance-free motor for generating preheated air. Output of up to 8.8 lbs/hr is made possible thanks to the S4's powerful drive system.



The powerful WELDPLAST S4 in use.

Digitally regulated extrusion welder

WELDPLAST S4



- Compact housing design reduces noise and guarantees optimal cooling for the electronics and drive.
- Microprocessor regulates the welding process and monitors the tool
- Menu with function programs
- Dual-sided, twist-free wire intake
- Maintenance-free blower

Technical Data

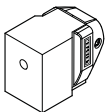
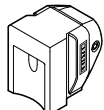


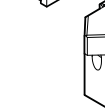
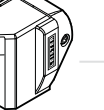
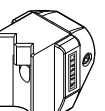

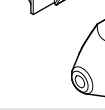
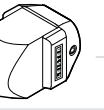
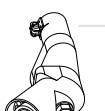

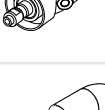
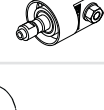


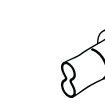

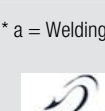
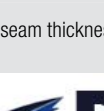


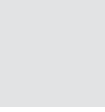
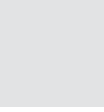


Voltage	V~	230
Power	W	3680
Material		PE / PP
Welding rod	inch	Ø 0.12 – 0.16 Ø 0.16 – 2.12
Output	lbs/hr	4.9 – 8.8
Size (L x W x H)	inch	22 x 4.3 x 11.8
Weight	lbs	17.6
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓢ

Article No.:

- 116.948 WELDPLAST S4, 230 V / 3680 W, Ø 0.12 – 0.16 inch, with Euro plug, blank welding shoe
- 146.813 WELDPLAST S4, 230 V / 3680 W, Ø 0.16 – 2.12 inch, with Euro plug, welding shoe K 15

Included with purchase: WELDPLAST S4, preheating nozzle large, medium and small, storage case

Accessories WELDPLAST S4

Welding shoe complete	
	146.239 2.1 x 1.6 x 2 inch blank welding shoe
	146.240 2.9 x 1.9 x 2.3 inch blank welding shoe
	146.241 1.0 inch overlap
	146.242 1.4 inch overlap
	145.899 1.6 inch overlap
	146.243 0.5 inch V-seam
	146.244 0.6 inch V-seam
	146.245 0.8 inch V-seam
	146.246 1.0 inch V-seam
	146.247 1.2 inch V-seam
	146.231 0.6 inch fillet weld seam (a = 0.4 inch*)
	146.232 0.8 inch fillet weld seam (a = 0.5 inch*)
	146.233 1.0 inch fillet weld seam (a = 0.7 inch*)
	146.234 1.2 inch fillet weld seam (a = 0.8 inch*)
	146.642 Corner outside seam 0.3 inch
	146.644 Corner outside seam 0.4 inch
	146.646 Corner outside seam 0.5 inch
	146.652 Corner outside seam 0.6 inch
	146.230 Corner seam Ø 0.55 inch
	146.218 Corner seam Ø 0.8 inch
	144.904 Angled adapter 45°
	145.704 Angled adapter 90°
	Caution: You must use welding shoes with an integrated air guide for this.
	117.064 Side hot-air guide
	117.065 Top hot-air guide
	117.053 Preheating nozzle 0.8 inch, small
	117.518 1.0 inch, medium
	141.177 1.4 inch, large

* a = Welding seam thickness



Plastic Fabrication

➔ Accessories page 86

WELDPLAST S2 / S2 PVC: The masterpieces.

WELDPLAST S2 and S2 PVC are masterpieces of modern technology. While externally they fulfill the highest requirements of functionality and design, their interior satisfies the highest expectations concerning the material to be processed. The WELSDPLAST S2 PVC has integrated corrosion protection and has been especially designed to satisfy the high requirements of PVC extrusion welding. Their perfect seam quality makes both – WELDPLAST S2 and S2 PVC – reliable partners for today and tomorrow.

Digitally regulated extrusion welder

WELDPLAST S2



- Maintenance-free blower
- Perfect weld seam quality
- Multifunctional display
- Ergonomic and handy
- Highly used worldwide worldwide

Technical Data

Voltage	V~	230
Power	W	3000
Material		PE / PP
		Other materials on request
Welding rod	inch	Ø 0.12 or Ø 0.16
Output Ø 0.12 inch (3mm)	lbs/hr	PE: 1.3 – 2.9 PP: 1.1 – 2.65
Output Ø 0.16 inch (4mm)	lbs/hr	PE: 2.2 – 5.0 PP: 2.0 – 4.4
Size (L x W x H)	inch	17.7 x 3.9 x 10.2
Weight	lbs	12.8
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓡ

Article No.:

127.215 WELDPLAST S2, 230 V / 3000 W, Euro plug

Included with purchase: WELDPLAST S2, welding shoe raw part, storage case

Digitally regulated extrusion welder

WELDPLAST S2 PVC



- Optimized for PVC-U
- Perfect weld seam quality
- PVC specific extrusion menu
- Corrosion protection
- Standby mode

Technical Data

Voltage	V~	230
Power	W	3000
Material		PVC-U, PE, PP
		Other materials on request
Welding rod	inch	Ø 0.12 or Ø 0.16
Output Ø 0.12 inch (3 mm)	lbs/hr	PVC-U: 2.0 – 3.7 PE: 1.3 – 2.8
Output Ø 0.16 inch (4 mm)	lbs/hr	PVC-U: 3.3 – 6.0 PE: 2.2 – 5.0
Size (L x W x H)	inch	17.7 x 3.9 x 10.2
Weight	lbs	12.8
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓡ

Article No.:

135.724 WELDPLAST S2 PVC, 230 V / 3000 W, Euro plug

Included with purchase: WELDPLAST S2 PVC, 3 pre-heating nozzles, welding shoe K 0.3/0.4 inch (Art. no. 146.236), storage case

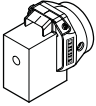

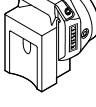
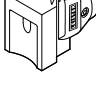
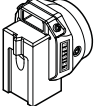
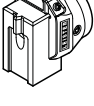
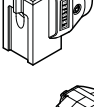
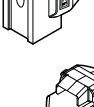
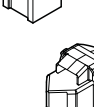
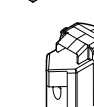

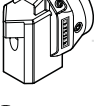
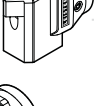
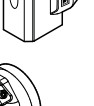



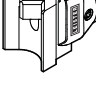
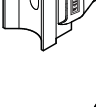


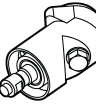
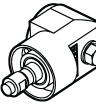


The handy WELDPLAST S2 in action.



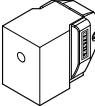


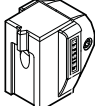
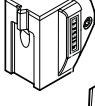
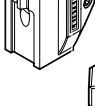
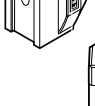

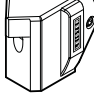
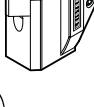

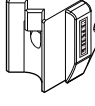
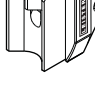

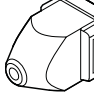
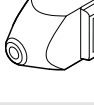

Even inside radiuses are easy to weld.

Accessories WELDPLAST S2

	Welding shoe complete
145.945	1.8 x 1.2 x 2.1 inch blank welding shoe
145.946	2.9 x 2.0 x 2.3 inch blank welding shoe
	145.896 1.0 inch overlap
	145.947 1.2 inch overlap
	145.897 1.4 inch overlap
	145.912 0.2 / 0.23 inch V-seam
	145.915 0.3 / 0.4 inch V-seam
	145.907 0.47 inch V-seam
	145.903 0.6 inch V-seam
	145.909 0.8 inch V-seam
	145.916 1.0 inch V-seam
	145.943 0.2 / 0.23 inch fillet weld (a = 0.3 inch*)
	145.944 0.3 / 0.4 inch fillet weld (a = 0.3 inch)
	145.812 0.6 inch fillet weld (a = 0.4 inch*)
	145.940 0.8 inch fillet weld (a = 0.55 inch*)
	145.816 1.0 inch fillet weld (a = 0.7 inch*)
	146.643 Corner outside seam 0.3 inch
	146.645 Corner outside seam 0.4 inch
	146.649 Corner outside seam 0.5 inch
	146.651 Corner outside seam 0.6 inch
	145.811 Corner seam \varnothing 0.55 inch
	145.488 Corner seam \varnothing 0.8 inch
	139.460 45° angled adapter
	139.461 90° angled adapter

* a = Welding seam thickness

Accessories WELDPLAST S2 PVC

	Welding shoe complete
146.239	2.1 x 1.6 x 2 inch blank welding shoe
146.240	2.9 x 2 x 2.3 inch blank welding shoe
	146.241 1.0 inch overlap
	146.242 1.4 inch overlap
	146.248 0.2 / 0.23 inch V-seam
	146.249 0.3 / 0.4 inch V-seam
	146.243 0.5 inch V-seam
	146.244 0.6 inch V-seam
	146.235 0.2 / 0.23 inch fillet weld seam (a = 0.16 inch*)
	146.236 0.3 / 0.4 inch fillet weld seam (a = 0.27 inch*)
	146.231 0.6 inch fillet weld seam (a = 0.4 inch*)
	146.642 Corner outside seam 0.3 inch
	146.644 Corner outside seam 0.4 inch
	146.646 Corner outside seam 0.5 inch
	146.652 Corner outside seam 0.6 inch
	146.230 Corner seam \varnothing 0.55 inch
	146.218 Corner seam \varnothing 0.8 inch
	133.850 Top hot-air guide

* a = Welding seam thickness



With the WELDPLAST S2 perfect welds are possible



The 45° angled adapter for the WELDPLAST S2 facilitates welding in difficult positions. (accessory)

➔ Accessories page 86

FUSION 3: Long and slim.

With its long and narrow shape, the FUSION 3 enables comfortable work, even on the floor.

Air heated extrusion welder

FUSION 3



- High-quality welding performance
- Compact and handy
- Motor start-up protection prevents cold start
- Simple operation
- Dual-sided twist-free wire intake
- 360° rotating welding shoe

Technical Data

		Version Ø 0.12 – 0.16		Version Ø 0.16 – 0.2	
Welding rod Ø	inch	0.12	0.14	0.16	0.2
Output PE	lbs/hr	4.4 – 5.5	5.9 – 7.9	4.6 – 5.7	5.9 – 7.9
Output PP	lbs/hr	4.0 – 5.0	5.5 – 7.5	4.0 – 5.3	5.5 – 7.5
Voltage	V~	230			
Power	W	3500			
Material		PE / PP			
Size (L x W x H)	inch	26.4 x 3.5 x 7.1			
Weight	lbs	16			
Conformity mark		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		□			

Article No.:

118.300 FUSION 3, 230 V / 3500 W, welding rod Ø 0.12 – 0.16 inch, Euro plug
 144.615 FUSION 3, 230 V / 3500 W, welding rod Ø 0.16 – 0.2 inch, Euro plug

Included with purchase: FUSION 3, blank welding shoe, storage case

FUSION 3C: Short and handy.

The somewhat shorter 3C provides an astounding output volume of up to 8 lbs per hour.

Air heated extrusion welder

FUSION 3C



- High-quality welding performance
- Compact and handy
- Motor start-up protection prevents cold start
- Simple operation
- Dual-sided, twist-free wire intake
- 360° rotating welding shoe

Technical Data

		Version Ø 0.12 – 0.16		Version Ø 0.16 – 0.2	
Welding rod Ø	inch	0.12	0.14	0.16	0.2
Output PE	lbs/hr	4.4 – 5.5	5.9 – 7.9	4.6 – 5.7	5.9 – 7.9
Output PP	lbs/hr	4.0 – 5.0	5.5 – 7.5	4.0 – 5.3	5.5 – 7.5
Voltage	V~	230			
Power	W	2800			
Material		PE / PP			
Size (L x W x H)	inch	23.2 x 3.9 x 8.9			
Weight	lbs	15.2			
Conformity mark		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		□			

Article No.:

123.866 FUSION 3C, 230 V / 2800 W, welding rod Ø 0.12 – 0.16 inch, Euro plug
 144.826 FUSION 3C, 230 V / 2800 W, welding rod Ø 0.16 – 0.2 inch, Euro plug

Included with purchase: FUSION 3C, blank welding shoe, storage case

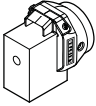

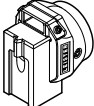

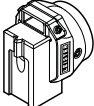
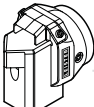
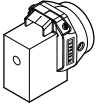
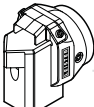
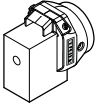
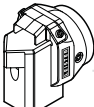
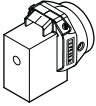
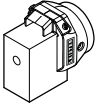
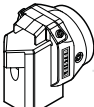
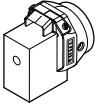
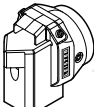
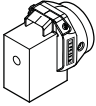
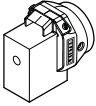
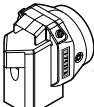
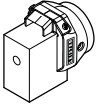
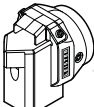
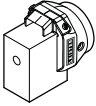
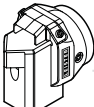
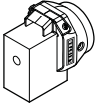
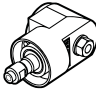


Perfectly stored in the case.



FUSION 3C during the welding of a V-seam.

Accessories FUSION 3 / 3C

Welding shoe complete	
	145.945 2 x 1.2 x 1.5 inch blank welding shoe
	145.946 2.9 x 2 x 2.3 inch blank welding shoe
	145.896 1.0 inch overlap
	145.947 1.2 inch overlap
	145.897 1.4 inch overlap
	145.912 0.2 / 0.23 inch V-seam
	145.915 0.3 / 0.4 inch V-seam
	145.907 0.5 inch V-seam
	145.903 0.6 inch V-seam
	145.909 0.8 inch V-seam
	145.916 1.0 inch V-seam
	145.943 0.2 / 0.23 inch fillet weld (a = 0.16 inch*)
	145.944 0.3 / 0.4 inch fillet weld (a = 0.28 inch*)
	145.812 0.6 inch fillet weld (a = 0.4 inch*)
	145.940 0.8 inch fillet weld (a = 0.55 inch*)
	145.816 1.0 inch fillet weld (a = 0.7 inch*)
	146.643 Corner outside seam 0.3 inch
	146.645 Corner outside seam 0.4 inch
	146.649 Corner outside seam 0.5 inch
	146.651 Corner outside seam 0.6 inch
	145.811 Corner seam \varnothing 0.55 inch
	145.488 Corner seam \varnothing 0.8 inch
	148.817 45° angled adapter
	148.816 90° angled adapter

* a = Welding seam thickness



FUSION 2: The small powerhouse.

The FUSION 2 convinces with its ergonomic design. The simple operation and first-class welding quality have helped it to become the breakthrough product.



In operation during container construction in China.

Air heated extrusion welder

FUSION 2



- At 17.7 inch, it is the shortest in its performance class!
- Motor start-up protection prevents cold start
- Simple operation
- Dual-sided, twist-free wire intake
- 360° rotating welding shoe
- Integrated electronics for stepless adjustment of the preheating temperature and output quantity

Technical Data

Voltage	V~	230 / 120
Power	W	2800
Material		PE / PP
Air temperature	°F	up to 640
Plastification temperature	°F	up to 570
Welding rod	Ø inch	0.16
Output PE	lbs/hr	2.9 – 4.0
Size (L x W x H)	inch	17.7 x 3.9 x 10.2
Weight	lbs	13 (without cable)
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class II		□

Article No.:

119.200	FUSION 2, 230 V / 2800 W, Euro plug
150.102	FUSION 2, 120 V / 2800 W, CEE plug

Included with purchase: FUSION 2, blank welding shoe, storage case

Accessories FUSION 2

Welding shoe complete	
145.945	1.8 x 1.2 x 2.1 inch blank welding shoe
145.946	2.9 x 2 x 2.8 inch blank welding shoe
145.896	1.0 inch overlap
145.947	1.2 inch overlap
145.897	1.4 inch overlap
145.912	0.2 / 0.23 V-seam
145.915	0.3 / 0.4 inch V-seam
145.907	0.5 inch V-seam
145.903	0.6 inch V-seam
145.943	0.2 / 0.23 inch fillet weld (a = 0.16 inch*)
145.944	0.3 / 0.4 inch fillet weld (a = 0.27 inch*)
145.812	0.6 inch fillet weld (a = 0.4 inch*)
146.643	Corner outside seam 0.3 inch
146.645	Corner outside seam 0.4 inch
146.649	Corner outside seam 0.5 inch
146.651	Corner outside seam 0.6 inch
145.811	Corner seam Ø 0.55 inch
145.488	Corner seam Ø 0.8 inch

* a = Welding seam thickness



→ Accessories page 86

WELDMAX: Small but nice.

The smallest tool still packs a punch: With separately regulated heating systems for preheated air and filler, the lightweight and compact WELDMAX fulfills even the most stringent requirements.



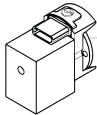
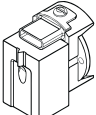
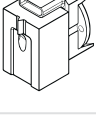
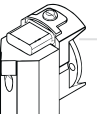
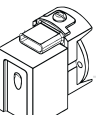
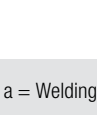

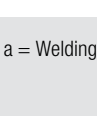
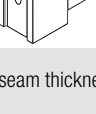
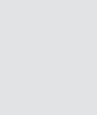
The easy to handle and low-noise WELDMAX.

Compact extrusion welder

WELDMAX



Accessories WELDMAX

Welding shoe complete	
	112.830 Blank welding shoe
	112.629 0.2 inch V-seam
	112.621 0.23 inch V-seam
	112.623 0.3 inch V-seam
	112.624 0.4 inch V-seam
	112.630 0.2 inch fillet weld (a = 0.13 inch*)
	112.625 0.23 inch fillet weld (a = 0.16 inch*)
	112.627 0.3 inch fillet weld (a = 0.22 inch*)
	112.628 0.4 inch fillet weld (a = 0.27 inch*)
	112.626 0.8 inch overlap

* a = Welding seam thickness

- Compact, handy and quiet thanks to its non-screw transportation and plastification
- The lightest Leister extrusion welder
- Ideal for confined spaces
- Separate, stepless temperature control for plastification and preheated air

Technical Data

Voltage	V~	230
Power	W	2200
Material		PE / PP / PVDF / PA (other materials on demand)
Welding rod	inch	Ø 0.16 ± 0.01
Output (HDPE Ø 4)	lbs/hr	0.7 – 1.8
Size (L × W × H)	inch	17.4 × 3.7 × 10, handle Ø 2.24
Weight	lbs	8.4
Conformity mark		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class II		□

Article No.:

110.272 WELDMAX, 230 V / 2200 W, with EU-plug, storage case
113.338 WELDMAX, 120 V / 1800 W, without plug

Additional versions on request



→ Accessories page 86

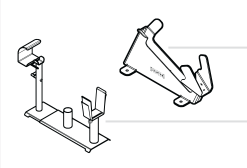

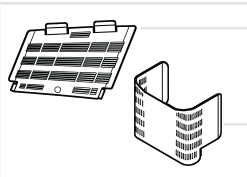
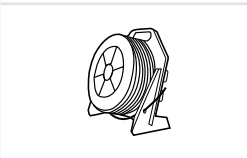

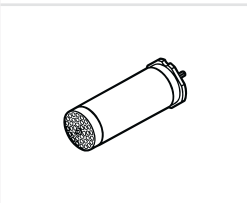


Draw welding on a PE-container with the DIODE PID.



The WELDPLAST S4 during outdoor use in Spain.

General accessories hand extruder

	<p>Tool rest</p> <p>131.451 WELDPLAST S2 / S2 PVC / FUSION 2</p> <p>118.804 WELDPLAST S4 / FUSION 3 / FUSION 3C</p>
	<p>Pre-heat reflector</p> <p>136.231 WELDPLAST S2 / S2 PVC / S4 / S6 FUSION 2 / 3 / 3C</p>
	<p>134.361 Air filter WELDPLAST S2 / S2 PVC (included with purchase)</p> <p>143.776 Textile dust filter WELDPLAST S2 / S2 PVC (not included with purchase)</p> <p>135.082 Air filter FUSION 2 / 3C</p>
	<p>144.963 144.963 Welding rod de-reeler</p>
	<p>Storage case (included with purchase)</p> <p>116.367 WELDPLAST S6</p> <p>123.173 WELDPLAST S4 / FUSION 3</p> <p>119.540 WELDPLAST S2 / S2 PVC / FUSION 2 / 3C / WELDMAX</p>
	<p>Heating element</p> <p>134.567 230 V / 2600 W, WELDPLAST S6</p> <p>109.984 230 V / 2200 W, WELDPLAST S4 / S2 / S2 PVC</p> <p>113.268 230 V / 1100 + 1100 W, FUSION 3</p> <p>123.561 230 V / 1750 W, FUSION 2 / 3C</p> <p>112.638 230 V / 1400 W, WELDMAX 120 V / 1150 W, WELDMAX</p>





Welding rods

Article		packaging units (lbs)
Welding accessories PE		
104.283	HDPE welding rod, profile A, black	6.6
104.294	HDPE welding rod, profile A, white	6.6
104.284	HDPE welding rod, profile B, black	11
104.299	HDPE welding rod, profile B, white	11
106.650	HDPE welding rod, 8x 2 mm, white	2.2
104.300	LDPE welding rod, profile A, black	6.6
Welding accessories PP		
104.287	PP welding rod, profile A, grey / beige	6.6
104.301	PP welding rod, profile A, black	6.6
104.288	PP welding rod, profile B, grey / beige	11
126.356	PP welding rod, 8x 2 mm, natural	4.4
Welding accessories PVC		
104.296	PVC-U welding rod (hard), profile A, transparent	6.6
104.278	PVC-U welding rod (hard), profile A, grey	6.6
106.641	PVC-U welding rod, profile A, brown	6.6
104.280	PVC-U welding rod (hard), profile B, brown	11
104.279	PVC-U welding rod (hard), profile B, grey	11
104.302	PVC-P welding rod (soft), profile A, transparent	6.6
Welding accessories ABS		
104.295	ABS welding rod, profile A, white	6.6
113.587	ABS welding rod, profile A, black	6.6
107.027	ABS welding band, 8x 2 mm, white	2.2

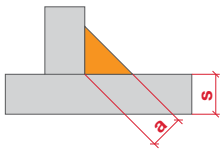
Article		packaging units (lbs)
Welding accessories div.		
104.297	PA welding rod, profile A, black	6.6
104.298	PC welding rod, profile A, transparent	6.6
104.313	PC welding rod / ABS / ALPHA (Honda), profile A, black	6.6
104.311	PC welding rod / PBTP (Xenoy), profile A, grey	6.6
104.309	PS welding rod, profile A, white	6.6
104.308	PUR welding rod, profile A, black	6.6
106.654	Xenoy welding band, 8x 2 mm, grey	4.4
106.642	PPs welding rod, profile A, grey, flame resistant	6.6
104.304	PVDF welding rod, profile A, natural	6.6
104.303	POM welding rod, profile A, natural	6.6
Test bundles		
107.036	Test bundle bodywork welding rods, each consisting of profile A pieces of 14.6 inch single marked 6x HDPE, 6x PP, 6x PA, 6x PC, 6x ABS, 6x PCABS / ALPHA Honda, 6x PC / PBTP / Xenoy	
107.037	Test bundles standard each consisting of profile A pieces of 14.6 inch single marked 5x PVC-U, 5x PVC-P, 5x PP, 5x ABS, 5x HDPE, 3x PC, 3x PA, 3x POM, 3x LDPE, 3x PC / ABS / ALPHA Honda, 3x PC / PBTP / Xenoy	
107.040	Test bundle welding band each consisting of profile A pieces of 14.6 inch single marked 9x HDPE, 8x 0.08" white, 9x PP, 8x 0.08" natural, 9x ABS, 8x 0.08" white, 9x PC / PBTP / Xenoy grey	

Profile sizes

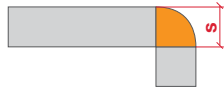


Possibilities of welding seams

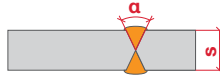
a = seam size s = material thickness α = milling angle



Fillet welding seam



Corner outside seam



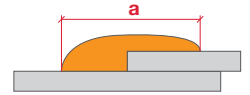
X-seam

s = 0.4 – 1.6 inch = α 60°
s = 2.0 – 2.4 inch = α 50°








V-seam

s = 0.2 – 0.8 inch = α 60°
s = 1.0 – 1.2 inch = α 50°

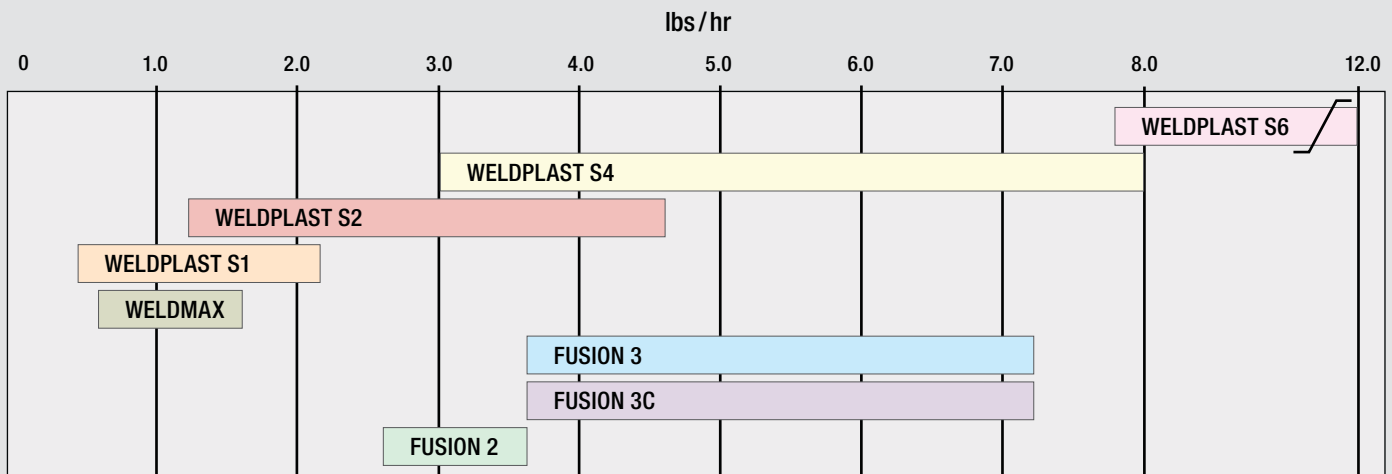


Overlap seam

Product comparison

	Digitally regulated extrusion welders				Compact hand welder
					
Device type	WELDPLAST S6	WELDPLAST S4	WELDPLAST S2	WELDPLAST S1	WELDMAX
Output (HDPE) lbs/hr	8.6 – 13.2	3.3 – 8.8	1.3 – 5.0	0.4 – 1.8	0.7 – 1.8
Material	HD-PE, PP	HD-PE, PP	HD-PE, PP, PVC	PE, PP, PVC, etc.	HD-PE, PP, PVDF
Wall thickness inch	0.6 – 1.6	0.3 – 1.4	0.16 – 0.8	0.16 – 0.4	0.16 – 0.4
Welding rod \varnothing inch	0.16 – 0.2	0.12-0.16 / 0.16 - 2	0.12 – 0.16	0.12 – 0.16	0.16
Weight lbs	30.9	19	12.8	10.3	8.4
Length inch	32.3	22	17.7	17.1	17
Voltage V~	230	230	230	230 / 120	230 / 120
Screw extruder	yes	yes	yes	yes	no
Container construction	✓✓	✓✓	✓✓	✓✓	✓✓
Pipeline construction	✓✓	✓✓	✓✓	✓✓	✓✓
Landfills / civil engineering	✓✓	✓✓	✓	○	○
Brushless blower	yes	yes	yes	yes	no
Remarks	1	1	1	1	1

Overview of Extrusion Welders Output





The WELDPLAST S2 welds perfect seams even in awkward positions.

Air heated extrusion welders



	FUSION 3	FUSION 3C	FUSION 2
Device type	FUSION 3	FUSION 3C	FUSION 2
Output (HDPE) lbs/hrr	3.5 – 7.7	3.5 – 7.7	2.9 – 4.0
Material	HD-PE, PP	HD-PE, PP	HD-PE, PP
Wall thickness inch	0.3 – 1.0	0.3 – 1.0	0.24 – 0.6
Welding rod \varnothing inch	0.12 – 0.16 / 0.16 – 2		0.16
Weight lbs	15.9	15	13
Length inch	27	23	17.7
Voltage V~	230	230	230
Screw extruder	yes	yes	yes
Container construction	✓✓	✓✓	✓✓
Pipeline construction	✓✓	✓✓	✓✓
Landfills / civil engineering	✓✓	✓	○
Brushless blower	no	no	no
Remarks	2	2	2

- ✓✓ very suitable
- ✓ suitable
- unsuitable

Remarks:

- 1: Air and plast temperatures are shown via a display and can be separately and freely adjusted.
- 2: The air temperature is adjusted by means of a potentiometer (rotary dial). The heating of the plastic mass is performed by the pre-heating air.







Flooring / Interior Decoration

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Hot-Air Hand Tools

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TRIAC AT	13 – 15
ELECTRON ST	16 / 17
HOT JET S	18 / 19
SONORA S1	21
General accessories	30



UNIFLOOR E / S: A jack of all trades.

With the UNIFLOOR E you can weld floor coverings made of PVC-P, PE, linoleum and modified thermoplastics without any reconfiguration, up to 24.6 feet per minute.



UNIFLOOR E, the reliable partner for welding floor coverings.

Hot-air welder

UNIFLOOR E / UNIFLOOR S

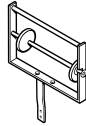
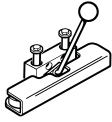



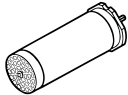


- Reproducible results thanks to digital display of set and actual values
- Electronically controlled heating
- Steplessly controlled air flow (only UNIFLOOR E)
- All floor coverings welded without reconfiguration
- Automatic start
- Integrated wall switch

Technical Data

Voltage	V~	120
Power	W	1800
Temperature	°F	176 – 1148
Speed	ft/min	3.3 – 24.6
Air flow range	%	50 – 100
Size (L x W x H)	inch	16.5 x 10.6 x 8.5
Weight	lbs	24.2 (with 10 ft cord)
Conformity marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓢ

Accessories UNIFLOOR E / UNIFLOOR S

	115.054 Welding rod de-reeler
	115.057 Trolley attachment
	114.224 Floor welding nozzle, optimized for PVC material
	115.342 Floor welding nozzle, for PVC + PUR material
	103.394 Floor welding nozzle air-knife, optimized for PUR material
	115.216 Air flap, for linoleum welding rod
	117.235 2/3 air flap, optimized for PUR material and linoleum welding rod
	126.448 Storage case, plastic, green (included with purchase)
	103.602 Heating element, 120 V / 1800 W
	103.604 Heating element, 230 V / 2100 W

Article No.:

- 116.133 UNIFLOOR E 120 V including rod de-reeler, squeezed nozzle (PVC and PUR), with US plug, storage case
- 115.345 UNIFLOOR E 230 V, squeezed nozzle (PVC and PUR), with Euro plug, storage case



GROOVER: Dust-free milling.

The GROOVER grooving machine cuts welding grooves into thick, tough floor coverings made of PVC-P, PE and linoleum. The tool glides on three rollers and cuts a uniform grooving depth, even at high speeds.



Strong drive suitable for PVC, PUR and linoleum materials.

Grooving machine GROOVER



- Cuts grooves into of all types of floor coverings
- Extremely high, two stage cutting speeds
- Adjustable guide roller for tracking accuracy
- Reduced dust particles when used with dust bag
- Cutting close to the edge possible

Technical Data

Voltage	V~	120 / 230
Power	W	350 / 700 (2 levels)
Speed	min-1	Level 1: 14500 (350 W) Level 2: 18500 (700 W)
Groove depth adjustment	inch	0 – 0.16
Size (L × W × H)	inch	9.4 × 8 × 10
Weight	lbs	14.8 (with 10 ft cord)
Conformity marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class II		□

Accessories GROOVER

	102.401 Ø 4.33 × 0.14 inch, tungsten carbide-tipped blade, trapezium profile
	102.402 Ø 4.33 × 0.16 inch, tungsten carbide-tipped blade, round profile
	102.404 Ø 4.33ww × 0.1 inch, tungsten carbide-tipped blade, round profile
	102.403 Ø 4.33 × 0.11 inch, tungsten carbide-tipped blade, round profile
	102.405 Ø 4.33 × 0.14 inch, tungsten carbide-tipped blade, round profile
	102.406 Ø 4.33 × 0.14 inch, diamond cutting blade, semi-round profile
	126.448 Storage case (included with purchase)

Article No.:

108.393	GROOVER 230 V, tungsten carbide tipped blade Ø 4.33 × 0.14 inch, trapezium profile, with Euro plug, storage case
111.032	GROOVER 230 V, tungsten carbide tipped blade Ø 4.33 × 0.16 inch, round profile, with Euro plug, storage case
108.395	GROOVER 120 V, tungsten carbide tipped blade Ø 4.33 × 0.14 inch, trapezium profile, with US plug, storage case



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