

LEISTER

PLASTIC WELDING



2015/16

General Catalog | US-Edition
Plastic Welding

Professional equipment for workshops
and construction sites

Version 5.0

We know how.



Leister Technologies AG, Corporate Center, Kaegiswil, Switzerland



Leister Technologies AG, factory, Sarnen, Switzerland



Leister Technologies AG, factory, Kaegiswil, Switzerland



Leister Technologies Ltd.,
Shanghai, China



Leister Technologies GmbH,
Aachen, Germany



Leister Technologies Benelux BV,
Houten, Holland



Leister Technologies S.r.l.,
Milan, Italy



Leister Technologies LLC,
Itasca, USA



Leister Technologies KK,
Yokohama, Japan



Leister Technologies India Pvt,
Chennai, India

Leister delivers performance.

For over 65 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

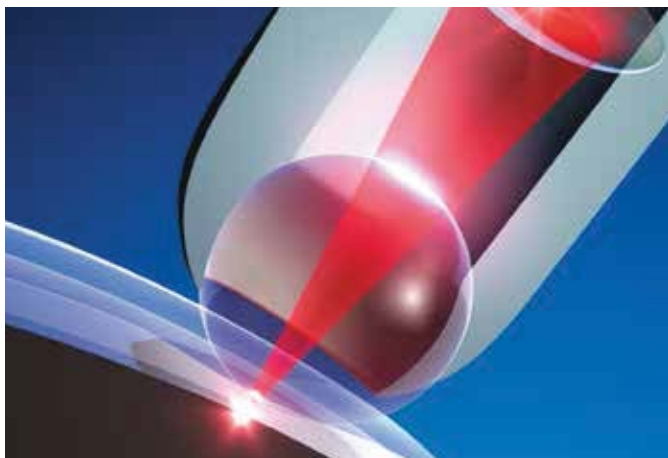
For decades now, Leister has been the worldwide market leader. The performance and reliability of our products makes Leister the first choice. Our tools are used in roofing, billboards, tarpaulins, civil engineering, tunneling, landfills, plastic fabrication, flooring, and shrinking to name a few.



LEISTER

PROCESS HEAT

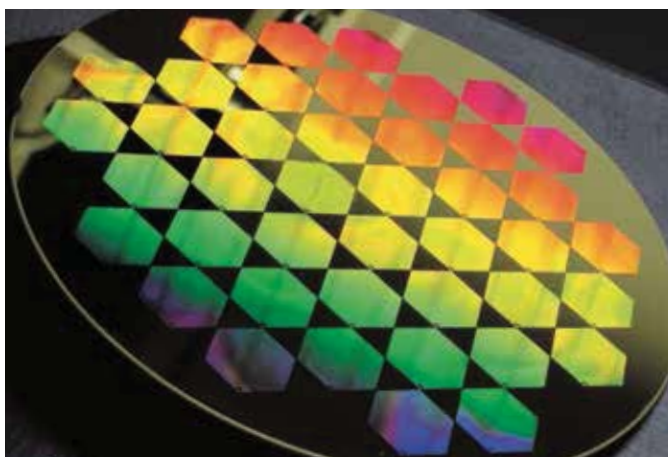
Hot-air is increasingly deployed in industrial processes. Typical applications include activating, heating, curing, melting, shrinking, welding, sterilizing, drying and warming to name a few. Leister customers profit from our extensive engineering knowledge and benefit from our recommendations during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









GEOSTAR G5/G7

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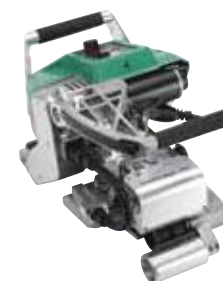
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Hot-Air Hand Tools

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Product overview Hot-air hand tools

									
Type	TRIAC ST	TRIAC AT	ELECTRON ST	HOT JET S	GHIBLI AW	GHIBLI	SONORA S1	HOTWIND	FORTE S3
Voltage V~	120	120	120 / 230	120	230 / 120	120	120	120	3 × 230 / 3 × 400
Max. power W	1600	1600	2400 / 3400	460	2300 / 1800	1500	1500	2300	10 000
Temperature °F	104 – 1292	113 – 1148	104 – 1202	68 – 1112	149 – 1148	68 – 1112	176 – 1202	68 – 1202	68 – 1202
Size in inches (L × Ø) Handle (Ø)	13.3 × 3.5 2.2	13 × 3.5 2.2	13 × 3.5 2.2	9.2 × 2.7 1.6	11 × 9 × 4 1.8	7.7 × 3.3 × 6.3 2.2	9.1 × 7.9	9.1 × 4.2 7	15.3 × 5.2 8.4
Weight lbs (without cord)~	2.18	2.2	2.4	0.9	1.18	2.0	1.3	4.9	9.7
Integrated blower	✓	✓	✓	✓	✓	✓	✓	✓	✓
Digital display		✓			✓		✓		
Conformity mark			CE		CE			CE	CE
Approval mark									
Certification scheme								CCA	CCA
Protection class									
Applications									
Outdoor use	✓	✓	✓	✓	✓				✓
Indoor use	✓	✓	✓	✓	✓	✓	✓	✓	✓
Roofing	✓	✓	✓	✓					
Billboards / Tarpaulins	✓	✓	✓	✓	✓	✓	✓		
Civil engineering / Tunneling / Landfills	✓	✓	✓	✓					
Plastic fabrication	✓	✓	✓	✓	✓	✓			
Flooring / Interior design	✓	✓	✓	✓	✓	✓	✓		
Shrinking	✓	✓	✓	✓	✓	✓	✓	✓	✓
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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 in inches (L × Ø) Handle (Ø)	10.6 × 1.7 1.3	8.9 × 8.7	10.4 × 2.2 1.6	9.8 × 3.7 2.5	7.1 × 2.1 1.6
Weight lbs (without cord)~	2.2	17.6	2.5	2.5	0.33
Integrated blower		✓		✓	
Digital display	✓ (R)		✓ (PID)		
Conformity Mark		CE			
Approval mark					
Certification Scheme					
Protection Class					
Applications					
Outdoor use					
Indoor use	✓	✓	✓	✓	✓
Roofing					
Billboards / Tarpaulins					
Civil engineering / Tunneling / Landfills					
Plastic fabrication	✓	✓	✓	✓	✓
Flooring / Interior design					
Shrinking					
Catalog page	 26	27	28 / 29	29	30

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 its comfortable design, as well as 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 one kilogram (2.2 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



- Suitable for the work site
- The sturdy, professional hot-air hand tool that weighs about two pounds
- 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

Technical data

Voltage	V~	120
Power	W	1600
Temperature	°F	104 – 1292
Size (L × Ø)	inches	13 × 4, handle Ø 2
Weight	lbs	2 (without power cord)
Approval mark		
Protection class II		

Article No.:



- 141.228 TRIAC ST, 120 V / 1600 W for push-fit nozzles with US plug / UL
141.227 TRIAC ST, 230 V / 1600 W for push-fit nozzles with EU plug

Hot-air hand tool TRIAC AT



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

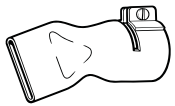



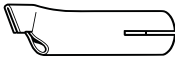

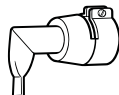

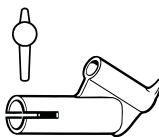




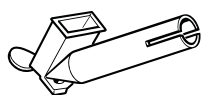

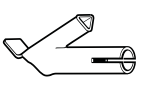



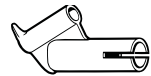


Technical data

Voltage	V~	120
Power	W	1600
Temperature	°F	104 – 1148
Size (L × Ø)	inches	13 × 4, handle Ø 2
Weight	lbs	2 (without power cord)
Approval mark		
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
141.314 TRIAC AT, 230 V / 1600 W, with EU plug

Accessories TRIAC ST / TRIAC AT

 	<p>Wide slot nozzle, push-fit</p> <p>107.123 0.8" (20 mm), angled</p> <p>107.132 1.6" (40 mm)</p> <p>107.135 1.6" (40 mm), PTFE-coated</p> <p>107.129 2.4" (60 mm) for bitumen</p> <p>107.131 3.1" (80 mm) for bitumen</p> <p>(more: www.leister.com/downloads)</p>
 	<p>100.303 Ø 0.2" (5 mm), tubular nozzle, push-fit</p>
 	<p>106.996 Tacking nozzle, push-fit on Ø 0.2" (5 mm) tubular nozzle</p>
 	<p>107.124 0.8" (20 mm) angled nozzle, 90°, push-fit</p> <p>107.125 0.8" (20 mm) angled nozzle, 60°, push-fit</p>
 <p>3 </p> <p>4 </p> <p>5 </p> 	<p>105.431 0.12" (3 mm) speed weld nozzle, with small air-slide, push-fit on Ø 0.2" (5 mm) tubular nozzle</p> <p>105.432 0.16" (4 mm) speed weld nozzle, with small air-slide, push-fit on Ø 0.2" (5 mm) tubular nozzle</p> <p>105.433 0.2" (5 mm) speed weld nozzle, with small air-slide, push-fit on Ø 0.2" (5 mm) tubular nozzle</p>
 	<p>107.139 0.18" x 0.5" speed weld nozzle for fillet weld, push-fit on Ø 0.2" (5 mm) tubular nozzle</p> <p>107.137 0.31" (8 mm) speed weld nozzle for tape welding, push-fit on Ø 0.2" (5 mm) tubular nozzle</p>
 <p>A </p> <p>B </p>   <p></p> 	<p>Speed weld nozzle, push-fit on Ø 0.2" (5 mm) tubular nozzle</p> <p>106.992 0.22" (5.7 mm), profile A</p> <p>106.993 0.28" (7 mm), profile B</p> <p>106.989 0.12" (3 mm)</p> <p>106.990 0.16" (4 mm)</p> <p>106.991 0.2" (5 mm)</p>



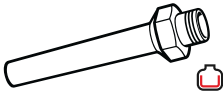
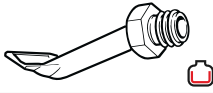

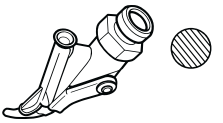
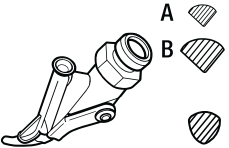
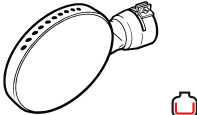

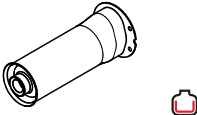
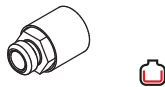
Overlap welding



Draw welding



Shrinking

	105.622 Ø 0.2" (5 mm) tubular nozzle, screw-on
	106.988 Tacking nozzle, screw-on
	126.552 Ø 0.16" (4 mm) drawing nozzle, screw-on for fluoroplastics
	113.666 Ø 0.12" (3 mm) drawing nozzle with tacking tip, screw-on
	113.399 Ø 0.16" (4 mm) drawing nozzle with tacking tip, screw-on
	113.876 Ø 0.12" (3 mm) drawing nozzle without tacking tip, screw-on
	113.874 Ø 0.16" (4 mm) drawing nozzle without tacking tip, screw-on
	113.670 Drawing nozzle triangular-shaped, With tacking tip, screw-on 0.22" (5.7 mm)
	113.877 Without tacking tip, screw-on 0.22" (5.7 mm), profile A
	106.986 Without tacking tip, screw-on 0.28" (7 mm) profile B
	106.987 0.28 x 0.22" (7 x 5.7 mm)
	107.344 5.31" (135 mm) welding mirror, push-fit
	143.833 Nozzle adapter for screw-on nozzles
	143.332 Protection tube for screw-on nozzles
	141.375 Connection adapter M14 for Ø 0.83 inch nozzle with plug

	107.324 0.5" x 0.4" (12 x 10 mm) sieve reflector, push-fit on Ø 0.2" tubular nozzle
	107.337 2.0" x 1.4" (50 x 35 mm) sieve reflector, push-fit
	107.338 1.37" x 0.8" (35 x 20 mm) sieve reflector, push-fit
	107.326 1.0" x 6" (25 x 150 mm) shell reflector, push-fit
	107.307 1.1" x 1.4" (27 x 35 mm) spoon reflector, push-fit
	107.339 0.7" x 1.5" (27 x 34 mm) soldering reflector, push-fit
	Heating element for 142.717 TRIAC ST / TRIAC AT, 230 V / 1550 W 142.718 TRIAC ST / TRIAC AT, 120 V / 1550 W

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



Mirror welding

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)	inches	13 x 4", handle Ø 2"			
Weight	lbs	2 (without power cord)			
Approval mark		Ⓢ			
Conformity mark		CE			
Protection class II		Ⓜ			

Article No.

145.562	ELECTRON ST, 120 V/2400 W for push-fit nozzles with US plug
145.574	ELECTRON ST, 230 V/3400 W for push-fit nozzles, without plug
149.673	ELECTRON ST, 230 V/2300 W for push-fit nozzles with Euro plug *

* Please ask about availability

Accessories, ELECTRON ST

	107.258	Wide slot nozzle, push-fit 2.8 x 0.4" (70 x 10 mm), for bitumen
	107.653	Wide slot nozzle 3 x 0.08" (75 x 2 mm), push-fit
	151.068	Tool stand for 107.653
	107.270	Wide slot nozzle 6 x 0.5" (150 x 12 mm), push-fit
	107.229	Round nozzle 0.8" (20 mm)
	107.331	2.83 x 2.8" (72 x 70 mm) folding reflector, push-fit
	107.328	2.4 x 3" (60 x 75 mm) folding reflector, push-fit
	107.330	5 x 0.85" (125 x 22 mm) folding reflector, push-fit
	107.327	3 x 3" (85 x 85 mm) sieve reflector, push-fit
	107.333	6 x 4.3" (150 x 110 mm) sieve reflector, push-fit
	106.127	Ø 2.6" (65 mm) sieve reflector, push-fit
	107.340	2 x 10" (45 x 250 mm) shell reflector, push-fit
	107.346	10.6" (270 mm) welding mirror, push-fit
	142.281	Scraper nozzle
	107.134	Tape welding nozzle 1.6" (40 mm)
		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

General accessories

32/33



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


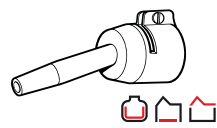
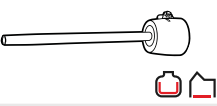
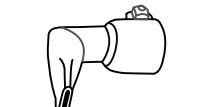


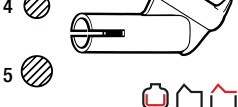
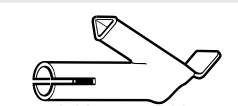
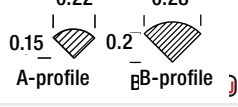
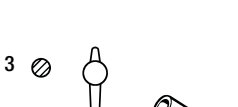
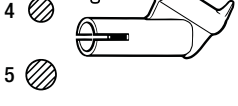


Technical data

Voltage	V~	120
Power	W	460
Temperature	°F	68 – 1112
Size (L x Ø)	inches	9.2 x 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" (15 mm) wide slot nozzle, push-fit
	107.142 0.8" (20 mm) wide slot nozzle, push-fit
	107.144 Ø 0.2" (5 mm) tubular nozzle, push-fit
	105.567 Ø 0.2 x 6" (5 x 150 mm) extension nozzle, straight
	105.556 0.8" (20 mm) angled nozzle, 90° angled, push-fit
	106.996 Tacking nozzle, push-fit on Ø 0.2" (5 mm) tubular nozzle
	106.989 0.12" (3 mm) speed welding nozzle, push-fit on Ø 0.2" (5 mm) tubular nozzle
	106.990 0.16" (4 mm) speed welding nozzle, push-fit on Ø 0.2" (5 mm) tubular nozzle
	106.991 0.2" (5 mm) speed welding nozzle, push-fit on Ø 0.2" (5 mm) tub. nozzle
	106.992 0.22" (5.7 mm) A profile speed welding nozzle, push-fit
	106.993 0.28" (7 mm) B profile speed welding nozzle, push-fit
	105.431 0.12" (3 mm) speed welding nozzle, with small air-slide, push-fit on Ø 0.2" (5 mm) tubular nozzle
	105.432 0.16" (4 mm) speed welding nozzle, with small air-slide, push-fit on Ø 0.2" (5 mm) tubular nozzle
	105.433 0.2" (5 mm) speed welding nozzle, with small air-slide, push-fit on Ø 0.2" (5 mm) 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.

	107.137 0.3" (8 mm) speed welding nozzle for tape welding, push-fit on Ø 0.2" (5 mm) tubular nozzle
	107.139 0.18 × 0.5" (4.5 × 12 mm) speed welding nozzle for fillet weld, push-fit on Ø 0.2" (5 mm) tubular nozzle
	107.324 0.5 × 0.4" (12 × 10 mm) sieve reflector, push-fit on Ø 0.2" (5 mm) tubular nozzle
	107.146 Ø 0.08" (2 mm) soldering nozzle
	107.151 Ø 0.16" (4 mm) soldering nozzle
	107.148 Ø 0.12 × 0.06" (3 × 1.5 mm) soldering nozzle, oval
	107.310 1.4 × 0.8" (35 × 20 mm) sieve reflector, push-fit
	107.311 2.0 × 1.4" (50 × 35 mm) sieve reflector, push-fit
	107.312 1.0 × 1.2" (25 × 30 mm) spoon reflector, push-fit
	107.305 0.6 × 1" (15 × 25 mm) ironing nozzle
	143.831 Nozzle adapter for screw-on nozzles
	114.734 Ski repair nozzle without base plate
	103.607 120 V / 435 W heating element

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



GHIBLI AW: Robust and ergonomic.

The GHIBLI AW is the robust and ergonomic heat gun used for shrink in cable manufacturing, heating and forming in the automobile industry, lap welding of truck sheeting and for deburring plastic parts. Thanks to the easy-to-grip, two-component frame, the GHIBLI AW fits perfectly in the hand. Temperature and air volume can easily be adjusted with the proven and intuitive "e-Drive" operating unit. The stand that is included in the scope of delivery and the

Heat gun

GHIBLI AW

1



Stand Thanks to the included stand, the GHIBLI AW can be placed in an optimum position at the workstation, thus reducing fatigue.

2



Practical air filter
Regular cleaning of the air filters ensures optimum air flow and maximum power.

3



Leister e-Drive
Temperature and air volume are easy to control and inspect—with the proven "e-Drive" operating unit—for reproducible results.

4



Fatigue-free working
Thanks to the integrated suspension lug, the GHIBLI AW can be suspended for fatigue-free work.

1

2

3

4

5

6

5



Compatible
All of its predecessor's nozzles also fit on the GHIBLI AW. Comprehensive selection of compatible accessories.

6



Ergonomic handling
The two-component handle, and the device's perfect balance, ensure an optimal grip and comfortable work, even under the harshest of conditions.



practical device suspension make working easier. The air filters can be readily removed and cleaned. And of course, all of the nozzles from its predecessor fit the new GHIBLI AW.



Shrink applications in cable manufacturing – ideal with the GHIBLI AW

Heat gun

GHIBLI AW

- Ergonomic heat gun
- Digital temperature control
- Five-stage air volume control
- "e-Drive" operating unit for optimum process control
- 100% Swiss Made

Accessories for GHIBLI AW

Technical data

Voltage	V~	120
Frequency	Hz	50/60
Power	W	1800
Temperature	°F	149 – 1148°
Air volume	cfm	5 – 9.5
Ø Nozzle holder	inches	1.5 (36.5 mm)
Emission	dB(A)	67
Dimensions (L × W × H)	inches	11 × 9 × 4
Ø Handle	inches	2
Weight	lbs	3
Mark of conformity	CE	
Approval mark	E	
Protection class II	□	

Article No.:

148.078 GHIBLI AW, 120 V / 1800 W, US plug

Scope of delivery: GHIBLI AW, case, stand, Operating Instructions

	106.998 Wide slot nozzle 0.8" (20 mm), push-fit
	106.999 Wide slot nozzle 1.6" (40 mm) inch push-fit
	107.154 Tubular nozzle Ø 0.2" (5 mm) push-fit
	107.006 Extension nozzle Ø 0.2" (5 mm), straight
	107.308 Sieve reflector 2 × 1.4 (50 x 35 mm)
	107.309 Sieve reflector 1.4 × .8" (35 x 20 mm)
	107.313 Spoon reflector 1 × 1.2" (25 x 30 mm), with screw connector
	107.325 Solder reflector 0.67 × 1.3" (17 x 34 mm), push-fit
	107.319 Sieve reflector Ø 2.6" (65 mm)
	107.345 Welding mirror 5.3" (135 mm), push-fit
	107.007 Ø 1.45" (37 mm) Dehorning nozzle
	106.132 1.8 × 9.8" (45 x 250 mm) shell reflector, push-fit
	145.582 Heating element, 230 V / 2200 W
	145.580 Heating element, 120 V / 1700 W

General accessories

➤ 32/33

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 x W x H)	inches	8 x 3 x 6, Handle Ø 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

Accessories GHIBLI

	106.998 0.8" (20 mm) wide slot nozzle, push-fit
	106.999 1.6" (40 mm) wide slot nozzle
	107.154 Ø 0.2" (5 mm) tubular nozzle, push-fit
	107.006 Ø 0.2 x 5" (5mm x 130 mm) extension nozzle, straight
	107.308 2 x 1.4" (50 x 35 mm) sieve reflector
	107.309 1.4 x 0.8" (35 x 20 mm) sieve reflector
	107.313 1 x 1.2" (25 x 30 mm) spoon reflector, with screw connector
	107.314 1 x 1.2" (25 x 30 mm) spoon reflector, push-fit
	107.325 0.7 x 1.3" (17 x 34 mm) soldering reflector, push-fit
	107.319 Ø 2.55" (65 mm) sieve reflector, push-fit
	107.007 Ø 1.45" (37 mm) Dehorning nozzle
	107.345 5.3" (135 mm) welding mirror, push-fit
	106.132 1.8 x 9.8" (45 x 250 mm) shell reflector, push-fit
	115.513 230 V / 1800 W heating element
	101.850 120 V / 1500 W heating element

General accessories

32/33



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




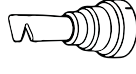
Voltage	V	120
Power	W	1500
Temperature	°F	176 – 1202
Size	inches	9 × 8
Weight	lbs	1 (without 6.5 ft cord)
Protection class II		□

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" (50 mm) wide slot nozzle
	119.314 Reducer nozzle (included with S1 purchase)
	119.271 Reflector nozzle (included with S1 purchase)
	119.316 0.2" (5 mm) tubular nozzle
	119.315 0.8" (20 mm) wide slot nozzle
	119.312 Solder sleeve reflector nozzle (included with S1 purchase)
	107.324 0.5 × 0.4" (12 × 10 mm) sieve reflector, push-fit on Ø 0.2" (5 mm) tubular nozzle
	107.308 2 × 1.4" (50 × 35 mm) sieve reflector

Included
with purchase



General accessories

32/33



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 1,472 °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 x W x H)	inches	13 x 4 x 7
Weight	lbs	5 (without 10 ft cord)
Conformity mark		CE
Approval mark		Ⓢ
Certification Scheme		CCA
Protection class II		□

Article No.:

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

Additional versions available upon request

Accessories HOTWIND PREMIUM / SYSTEM

Wide slot nozzle, push-fit (a x b)	
	107.260 3.3 x 0.6" (85 x 15 mm)
	107.259 6 x 0.5" (150 x 12 mm)
	105.977 7.8 x 0.35" (200 x 9 mm)
	107.263 9.8 x 0.5" (250 x 12 mm)
	107.262 11.8 x 0.16" (300 x 4 mm)
	105.992 15.7 x 0.16" (400 x 4 mm)
	125.317 Flange connector, push-fit a = 3.54" (90 mm)
	107.335 Ø 6" (150 mm) sieve reflector, push-fit
	107.248 Stainless steel filter, push-fit on air intake
	141.723 Hand tool kit (handle and protective tube)
	143.035 120 V / 2200 W heating element
	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 bulk 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)	inches	15 × 5 × 8	
Weight	lbs	10 (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 swiveling external air supply, the Welding Pen makes hard work easy.



WELDING PEN R, combined with angle adapters, make welding possible even in very tight spaces.

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








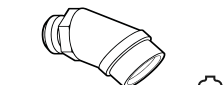


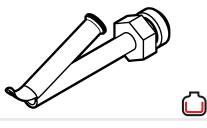



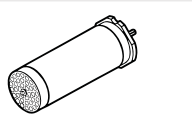
Voltage	V~	120
Power	W	600
Temperature	°F	68 – 1112
Size (L x Ø)	inches	11 x 2, handle Ø 1
Weight	lbs	2 (with 10 ft cord / air hose and Y-connection)
Protection class II		□

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 WELDINGPEN R / S

	105.622 Ø 0.2" (5 mm) tubular nozzle, 15° screw-on
	106.988 Tacking nozzle, screw-on
	113.666 Ø 0.12" (3 mm) round drawing nozzle with tacking tip, screw-on
	113.399 Ø 0.16" (4 mm) round drawing nozzle, with tacking tip, screw-on
	113.876 Ø 0.12" (3 mm) round drawing nozzle without tacking tip, screw-on
	113.874 Ø 0.16" (4 mm) round drawing nozzle, without tacking tip, screw-on
	113.670 Triangular drawing nozzle with tacking tip, screw-on, 0.22" (5.7 mm) profile A
	113.877 without tacking tip, screw-on 0.22" (5.7 mm), profile A
	106.986 without tacking tip, screw-on 0.28" (7 mm), profile B
	106.987 without tacking tip, screw-on 0.28 x 0.22" (7 x 5.5 mm)
	126.552 Ø 0.16" (4 mm) drawing nozzle, screw-on for fluoroplastics
	Angular adapter for screw-on nozzles, 30°
	127.726 30° 127.727 45°
	141.375 Connection adapter M14 for Ø 0.84" (21.3 mm) nozzle with plug
	113.597 120 V / 600 W heating element for WELDING PEN R and WELDING PEN S

Swiveling air hose for easy working.



General accessories

32/33

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 supply air for up to three hot-air hand tools simultaneously.



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

Hot-Air Hand Tools

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)

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	IP 54
Outside diameter air inlet	Ø inches (mm)	1.5 (38)	1.5 (38)
Outside diameter air outlet	Ø inches (mm)	1.5 (38)	1.5 (38)
Weight	lbs	18	18
Conformity mark	CE	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	

Accessories ROBUST

	107.354	Stainless steel filter, push-fit on air intake
	107.281	Ø 1.5" (38 mm) hose connection adapter, 3 output each 0.55" (14 mm)
	113.859	Ø 0.55" (14 mm) air hose
	101.031	Ø 0.55" (14 mm) hose clip for air hose

DIODE PID / S: The powerful pair.

There are two options for high-quality work: The closed-loop 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 × Ø)	inches	10 × 2, handle Ø 1.6
Weight	lbs	3 (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
101.292	DIODE S, 120 V / 1600 W, for screw-on nozzles, with US plug
101.311	DIODE PID, 120 V / 1600 W, for push-fit nozzles, with US plug
101.281	DIODE S, 230 V / 1600 W, for snap-fit nozzles, with Schuko plug
101.303	DIODE PID, 230 V / 1600 W, for snap-fit nozzles, with Schuko 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 × Ø)	inches	10 × 2, handle Ø 1.6
Weight	lbs	6 (with 10 ft cord / 5 ft air hose)
Protection class II		□

Article No.:

101.447	DIODE S, 120V / 1700 W, for push-fit nozzles, connected to MINOR 5 ft air hose, US plug
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Additional versions available upon request



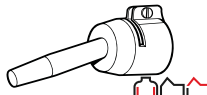
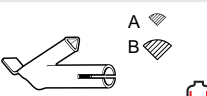
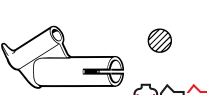




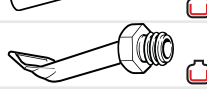

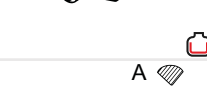
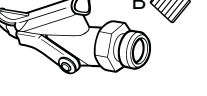


The MINOR blower as an air supply for the DIODE PID.

MINOR: The mobile air supplier.

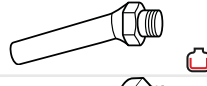

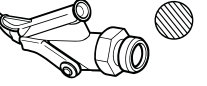




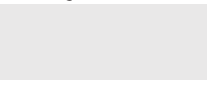

Don't be deceived by the MINOR's small size and low weight. This blower delivers sufficient air to enable quality work with the DIODE PID / DIODE S or LABOR S.

Accessories DIODE PID / DIODE S

With push-fit nozzle

	100.303 Ø 0.2" (5 mm) tubular nozzle, for versions with push-fit nozzles
	100.300 Heater tube for push-fit nozzles
	100.304 Heater tube for screw-on nozzles
	106.992 Speed welding nozzle, push-fit on Ø 0.2" (5 mm) tubular nozzle
	106.993 0.22" (5.7 mm), profile A
	106.989 0.28" (7 mm), profile B
	106.989 0.12" (3 mm)
	106.990 0.16" (4 mm)
	106.991 0.2" (5 mm)
	106.996 Tacking nozzle, push-fit on Ø 0.2" (5 mm) 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" (5 mm) tubular nozzle, screw-on
	106.988 Tacking nozzle, screw-on
	113.666 Ø 0.12" (3 mm) round drawing nozzle with tacking tip, screw-on
	113.399 Ø 0.16" (4 mm) round drawing nozzle, with tacking tip, screw-on
	113.876 Ø 0.12" (3 mm) round drawing nozzle without tacking tip, screw-on
	113.874 Ø 0.16" (4 mm) round drawing nozzle, without tacking tip, screw-on
	113.670 Triangular drawing nozzle, with tacking tip, screw-on, 0.22" (5.7 mm)
	113.877 Without tacking tip, screw-on 0.22" (5.7 mm), profile A
	106.986 Without tacking tip, screw-on 0.28" (7 mm), profile B
	106.987 0.28 x 0.22" (7 x 5.5 mm)
	126.552 0.16" (4 mm) drawing nozzle, screw-on, for fluoroplastics
	141.375 Connection adapter M14 for Ø 0.84" (21.3 mm) nozzle with plug

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)	inches (mm)	0.6 (15)
Size (L x Ø)	inches	9 x 4, 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.

Developed for laboratory use but also eminently suitable for small welding tasks where access is difficult.



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)	inches	7 x 2, handle Ø1.6
Weight	lbs	0.33 (without air hose and without cord)
Approval mark		
Protection class II		

Article No.:

- 101.721 LABOR S w/junction box, 120 V / 600 W w/US plug, 10 ft PVC hose, UL
 101.740 LABOR S w/junction box, 120 V / 600 W, w/US plug, 10 ft silicon hose, UL

Additional versions available upon request

Accessories LABOR S

	107.144 Ø 0.2" (5 mm) tubular nozzle, push-fit
	Speed weld nozzle, push-fit on 106.992 Ø 0.2" (5 mm) tubular nozzle 106.993 0.22" (5.7 mm), profile A 0.28" (7 mm), profile B
	106.989 0.12" (3 mm) 106.990 0.16" (4 mm) 106.991 0.2" (5 mm)
	106.996 Tacking nozzle, push-fit on Ø 0.2" (5 mm) tubular nozzle
	143.831 Nozzle adapter for screw-on nozzles
	107.146 Ø 0.08" (2 mm) soldering nozzle
	107.151 Ø 0.16" (4 mm) soldering nozzle
	107.148 Ø 0.12 x 0.06" soldering nozzle, oval
	105.622 Ø 0.2" (4 mm) tubular nozzle, screw-on
	106.988 Tacking nozzle, screw-on
	113.666 Ø 0.12" (3 mm) round drawing nozzle with tacking tip, screw-on 113.399 Ø 0.16" (4 mm) round drawing nozzle, with tacking tip, screw-on 113.876 Ø 0.12" (3 mm) round drawing nozzle without tacking tip, screw-on 113.874 Ø 0.16" (4 mm) round drawing nozzle, without tacking tip, screw-on
	113.670 Triangular drawing nozzle, with tacking tip, screw-on, 0.22" (5.7 mm) 113.877 Without tacking tip, screw-on 0.22" (5.7 mm), profile A 106.986 Without tacking tip, screw-on 0.28" (7 mm), profile B 106.987 0.28" x 0.22" (7 x 5.7 mm)
	126.552 0.16" (4 mm) drawing nozzle, screw-on, for fluor plastics
	101.643 120 V / 600 W heating element

General accessories

➔ 32/33

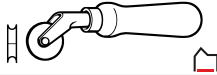
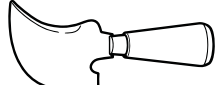
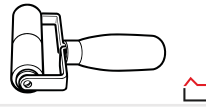
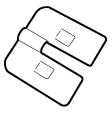
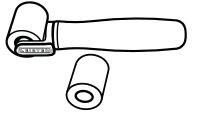
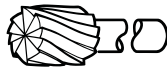



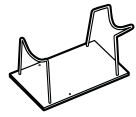


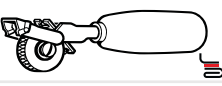
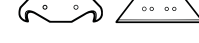
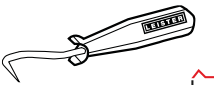

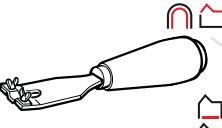

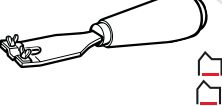
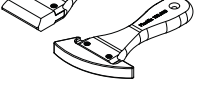
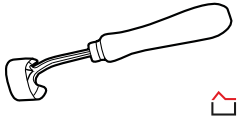
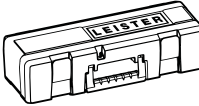






The new "GROOVY" gouging tool is also perfectly suited for floor joints.

Hot-air hand tools

General accessories

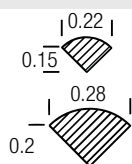
	106.970 Brass pressure roller, for welding rods: Ø 0.16 – 0.2" (4 – 5 mm)		106.969 Spatula
	106.974 3" (80 mm) silicone pressure roller		122.541 Trimming guide, for use with spatula (106.969)
	140.160 1.6" (40 mm) silicone pressure roller with ball bearings (silicone) 140.599 Spare roll for 140.160		106.997 Ø 0.23" (6 mm) rotary burr for drilling machine, for car repairs
	140.161 1.1" (28 mm) silicone pressure roller with ball bearings (silicone) 140.598 Spare roll for 140.161		116.798 Brass brush
	106.976 1.1" (28 mm) PTFE pressure roller		107.348 Tool rest for TRIAC AT, TRIAC ST, ELECTRON ST
	106.972 Brass pressure roller with ball bearings		137.855 Leister cutter with four spare blades
	106.981 Pressure roller for custom seal		138.902 Hooked blade for LEISTER-cutter (10 dispensers with 10 pcs = 100 pcs)
	138.314 Seam probe tester for overlap seams		138.539 Straight-edge blade for LEISTER-cutter (10 dispensers with 10 pcs = 100 pcs)
	111.346 Chamfer plane with seven spare blades, for sealing sheets 111.348 Spare blades kit containing ten blades		151.382 Inside corner tool
	106.966 Hand grooving tool 106.968 Spare blades for hand grooving tool		153.009 Plastfix
	151.188 Chamfer plane for T-joints		116.586 Storage case for TRIAC AT, TRIAC ST, ELECTRON ST
	150.809 "GROOVY" Hand splice tool for flooring applications		
	152.676 Weld seam template		



Welding Rods

Article		packaging units (lbs)	Article		packaging units (lbs)
PE Welding rod			Welding rod 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	104.309	Welding rod PS, profile A, white	6.6
106.650	Welding band HDPE, 0.32" × 0.08" (8 x 2 mm), white	2.2	104.308	Welding rod PUR, profile A, black	6.6
104.300	Welding rod LDPE, profile A, black	6.6	106.654	Welding band Xenoy, 0.32" × 0.08" (8 x 2 mm), grey	4.4
PP Welding rod			106.642	Welding rod PPs, profile A, grey, flame resistant	6.6
104.287	Welding rod PP, profile A, grey / beige	6.6	104.304	Welding rod PVDF, profile A, natural	6.6
104.301	Welding rod PP, profile A, black	6.6	104.303	Welding rod POM, profile A, natural	6.6
104.288	Welding rod PP, profile B, grey / beige	11	Test bundles		
126.356	Welding band PP, 0.32" × 0.08" (8 x 2 mm), natural	4.4	107.036	Test bundle (bodywork) welding wires, each consisting of profile A pieces of 14.6" (37 cm) single marked 6× HDPE, 6× PP, 6× PA, 6× PC, 6× ABS, 6× PCABS / APLHA Honda, 6× PC / PBTP / Xenoy	
PVC Welding rod				107.037	Test bundles (standard) each consisting of profile A pieces of 14.6" (37 cm) single marked 5x 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
104.296	Welding rod PVC-U (hard), profile A, transparent	6.6	107.040		Test bundle (welding band) each consisting of profile A pieces of 14.6" (37 cm) single marked:
104.278	Welding rod PVC-U (hard), profile A, grey	6.6		9× HDPE, 0.32 × 0.08" (8 x 2 mm) white; 9× PP, 0.32 × 0.08" (8 x 2 mm) natural; 9× ABS, 0.32× 0.08" (8 x 2 mm) white, 9× PC / PBTP / Xenoy, grey	
106.641	Welding rod PVC-U, profile A, brown	6.6			
104.280	Welding rod PVC-U (hard), profile B, brown	11			
104.279	Welding rod PVC-U (hard), profile B, grey	11			
104.302	Welding rod PVC-P (soft), profile A, transparent	6.6			
ABS Welding rod					
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" (8 x 2 mm), white	2.2			

Profile sizes



Profile A Diameters in inches

Profile B





Roofing

Roofing welders overview	36
UNIROOF E 40 mm	37
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Hot Air Tools for Roofing

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TRIAC AT	13 – 15
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The VARIMAT V2 guide bar fits in tight spaces.



Flameless welding of modified bitumen with the BITUMAT B2.

Overview Roofing Welders

				
Materials	Thermoplastic Single-Ply Membranes			Modified Bitumen
Type of welding machine	VARIMAT V2	UNIROOF E 1.6 inch	TRIAC DRIVE AT with guide	BITUMAT B2
Main application	Welding close to edges Industrial surfaces > 600 yd ²	Parapets, edges Residential construction surfaces < 600 yd ²	Cramped conditions, vertical parapets, round welds (for ventilation pipes)	First bitumen layer
Roof construction				
Flat roof	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Sloped roof	✓	✓✓	✓✓	✓
Basic weld seams	✓✓✓	✓✓	✓	✓✓✓
Detail work	✓	✓✓✓	✓✓✓	✓
Special features	Double welding performance against competitors	Ideal for roof edge welding	Vertical welding	Flameless welding
Parapet spacing in inches	4.3	7.5 **	1.6	7.9
Electronics				
Regulated for drive and blowers (closed-loop system)	X	X	X (blower)	
Controlled for drive and blowers (open loop)			X (drive)	X
Speed ft/min.				
Drive	2.3 – 39	3 – 16	2.6 – 19.7	0.8 – 12
Welding speed (depending on material)	13 – 26	6.5 – 9.8	4.9 – 9.8	9.8 – 19.6
Weight in lbs	77	28	8.8	88
Blower technology	Maintenance-free brushless	Brush motor	Brush motor	Brush motor
Catalog page	 38	37	39	40

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

**No gap necessary for laminated sheets

UNIROOF E 40 mm (1.6 inch)

Leister's UNIROOF E 40 mm (1.6 inch) 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)



- 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


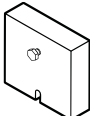
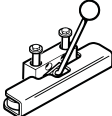

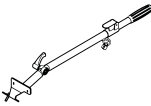
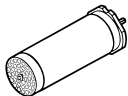
Technical Data

Amperage	A	13
Voltage	V~	120/230
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.:

152.947	UNIROOF E 1.6 inch, 120 V with US plug
149.224	UNIROOF E 1.6 inch, 230 V without plug
Included with purchase: Handle with guide bar, 2 additional weights, storage case, operational instructions and DVD	

Accessories UNIROOF E 1.6 inch

	148.731 1.6" (40 mm) grip-nozzle for TPO / FPO Single-ply
	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 120 V / 1800 W
	103.602 Heating element 230 V / 2750 W



Clean overlap welding of base welds.

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 weld 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


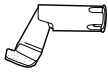
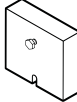
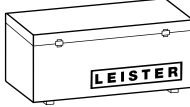


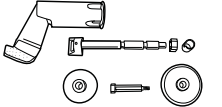
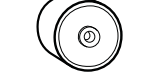




Voltage	V~	230
Power	W	4600
Temperature	°F	212 – 1148
Speed	ft/min	2.3 – 39
Air flow range	%	50 – 100
Width of welding nozzle	inch	1.6
Size (L × W × H)	inch	25 × 17 × 13
Weight	lbs	77
Conformity mark		CE
Approval mark		§
Certification scheme		CCA
Protection class I		⏚

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" (30 mm) grip-nozzle for TPO / FPO single plies
	113.600	1.6" (40 mm) grip-nozzle for TPO / FPO single plies
	110.805	0.8" (20 mm) overlap welding nozzle for thermoplastic sealing sheeting
	107.067	Additional weight for even more pressure
	139.048	Sturdy green plywood storage case 28 × 18.5 × 18 inches included with purchase
	107.649	Replacement wheels
	132.429	2 welding plates for optimum welding start included with purchase
	138.817	Steel brush to clean nozzle Included with purchase
	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

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, and inside or outside nozzle, the unit is suitable for all roofing applications and other areas of use

Technical Data





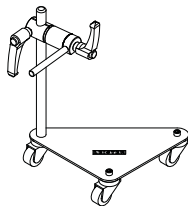
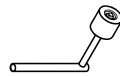



Voltage	V~	120 / 230
Power	W	1600 / 1700
Temperature	°F	104 – 1202
Speed	ft/min	1.6 – 9.8
Size (L x W x H)	inch	11.8 x 9.0 x 15
Weight (with 3 m cable)	lbs	9
Conformity marking		CE
Protection class II		□

Article No.: Additional versions available upon request.

115.379	TRIAC DRIVE ST without guide, 100-120 V 1600 W, inside nozzle, without grip, 1.6" (40 mm), knurled steel wheels, brass rollers
115.125	TRIAC DRIVE ST without guide, 100-120 V 1600 W, outside nozzle, without grip, 1.6" (40 mm), knurled steel wheels, brass rollers
117.331	TRIAC DRIVE AT 230 V / 1700 W, without guide help, nozzle inside, 1.2" (30 mm), without grip, knurled steel wheels, brass rollers, Euro plug
117.332	TRIAC DRIVE AT 230 V / 1700 W, with guide, nozzle inside, 1.2" (30 mm), without grip, Euro plug, knurled steel wheels, brass rollers
117.333	TRIAC DRIVE AT 230 V / 1700 W, with guide, inside nozzle, 1.2" (30 mm) without grip, Euro plug, knurled steel wheels, brass rollers, with extension for parapet welding

Additional versions available upon request.

Accessories TRIAC DRIVE AT

	115.274 0.5" (12 mm) pressure roller, steel 115.176 1.2" (30 mm) pressure roller, steel 115.712 1.6" (40 mm) pressure roller, steel 115.857 1.2" (30 mm) pressure roller, silicone 115.921 1.6" (40 mm) pressure roller, silicone 138.570 0.5" (12 mm) pressure roller, silicone
	115.276 Single supporting carrier, brass 107.552 Single supporting carrier, silicone 114.682 Single supporting wheel, brass
	Overlap welding nozzle, inside, push-fit 115.283 0.5" (12 mm), with grip 115.279 1.2" (30 mm), with grip 115.281 1.5" (38 mm) with grip 115.699 0.5" (12 mm), without grip 115.701 1.2" (30 mm), without grip 115.703 1.5" (38 mm), without grip
	Overlap welding nozzle, outside, push-fit 115.285 0.5" (12 mm), with grip 115.278 1.2" (30 mm), with grip 115.280 1.5" (38 mm), with grip 115.700 1.2" (30 mm), without grip 115.702 1.5" (38 mm), without grip
	138.549 Guide for TRIAC DRIVE AT, for easy horizontal welding, e.g. for parapets. (Included with purchase: 1.6" (40 mm) overlap welding nozzle, inside, push-fit) 115.700 Overlap welding nozzle, outside, push-fit, 1.2" (30 mm), without grip (included with purchase)
	142.422 Guide 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 142.718 Heating element, 120 V / 1550 W, for TRIAC ST

BITUMAT B2: The flameless.

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



Easy unit guidance and clean working with the BITUMAT B2.

Hot-air welder

BITUMAT B2



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

Technical Data




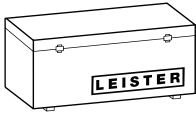
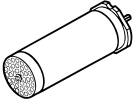
Voltage	V~	230
Power	W	6700
Temperature	°F	68 – 1148
Speed	ft/min	2.7 – 40
Air flow range	%	85 – 100
Welding nozzle width	inch	3.0 / 4.0
Size (L × W × H)	inch	3.0 / 4.0
Weight	lbs	89 (with cord)
Conformity mark		CE
Approval mark		§
Certification scheme		CCA
Protection class I		⊕

Article No.:

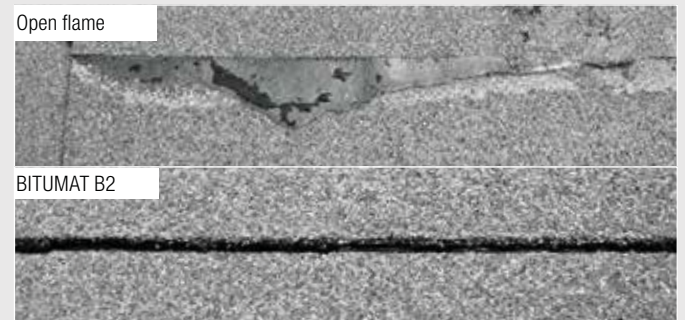
- 140.441 BITUMAT B2, 230V / 6700W, 3" (75 mm), without plug
 140.439 BITUMAT B2, 230V / 6700W, 4" (100 mm), without plug

Additional versions available upon request.

Accessories BITUMAT B2

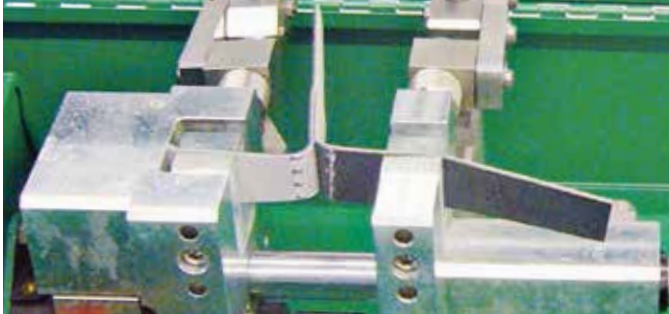
	138.048	3" (75 mm) bitumen nozzle
	138.047	4" (100 mm) bitumen nozzle
	137.895	4" (100 mm) pressure roller with gap
	137.896	3" (75 mm) pressure roller with gap
	140.229	4" (100 mm) pressure roller w/out gap
	140.228	3" (75 mm) pressure roller w/out gap
	140.476	Lifting device
	140.489	Sturdy storage case, 28 × 18 × 18 inches (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.



EXAMO USB: The inspector.

Is the welding seam sealed and can it withstand the specified peel, tensile and shear 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.





Technical Textiles & Industrial Fabrics

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Applications



Example: Tents




Example: Flood protection (Picture by Beaver AG)










Example: Inflatables (picture © Marek Uliasz | Dreamstime.com)

Stationary welding machine



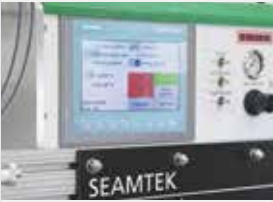





Device type	SEAMTEK 36
Max. voltage V~	230 / 240
Max. power W	3500 / 3900
Temperature °F	95 – 1292
Speed ft/min	0.82 – 72
Welding width in inches	0.3 - 2.5
Size (L × W × H) in inches	67 × 32 × 67
Weight lbs	728
Welding options	
Overlap welding	✓
Hem welding	✓
Piping welding	✓
Tape welding	✓
prayer weld	✓
hem pipe	✓
butt joint with tape	✓
Welding technologies	
Hot-air welding	✓
Hot-wedge welding	
Features	
Temperature regulation	✓
Drive regulation	✓
Temperature and drive infinitely adjustable	✓
Digital display	✓
Catalog page	 46 - 48

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

						
Device type	VARIANT T1 Overlap	VARIANT T1 TAPE 2.0"	VARIANT T1 TAPE 1.0"	UNIPLAN E / S	TAPEMAT 2.0"	TAPEMAT SPRIEGEL 4 / 5"
Max. voltage V~	230 / 400	230 / 400	230 / 400	120	3 × 400	3 × 400
Max. power W	3680 / 5700	3680 / 5700	3680 / 5700	2300	10 000	10 000
Temperature °F	212 – 1148	212 – 1148	212 – 1148	176 – 1148	212 – 1200	212 – 1200
Speed ft/min	5 – 59	5 – 59	5 – 59	3 – 25	13 – 66	13 – 66
Welding width in inches	0.8 / 1.6	2.0	1.0	0.8 / 1.2	2.0	2 × 0.8
Size (L × W × H) in inches	28 × 16 × 10	28 × 16 × 10	28 × 16 × 10	17 × 11 × 8	22 × 17 × 15	22 × 17 × 15
Weight in lbs	50	62	62	25	77	88
Conformity mark	CE	CE	CE	CE	CE	CE
Certification scheme	CCA	CCA	CCA	CCA	CCA	CCA
Protection class	II	II	II	II	II	II
Welding options						
Overlap welding	✓			✓		
Hem welding	✓			✓		
Piping welding	✓			✓		
Tape welding		✓	✓		✓	✓
Prayer weld	✓	✓	✓	✓	✓	✓
Hem pipe	✓	✓	✓	✓	✓	✓
Welding technologies						
Hot-air welding	✓	✓	✓	✓	✓	✓
Hot-wedge welding						
Features						
Temperature regulation	✓	✓	✓	✓		
Drive regulation	✓	✓	✓	✓		
Temperature and drive infinitely adjustable	✓	✓	✓	✓	✓	✓
Digital display	✓	✓	✓	✓		
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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 delivery 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.

1		User-friendly <ul style="list-style-type: none"> • Welding parameters always under control • Multilingual touch-screen with 99 memory settings
2		Clearly arranged Easy access to the welding process
3		Easy Modular, quickly changeable drive rolls
4		Quick arm <ul style="list-style-type: none"> • Overlap welding • Hose welding
5		Side arm <ul style="list-style-type: none"> • Circumference welding • Taping/welding end caps • Overlap welding
6		Tape Delivery System (TDS) For welding of tapes



Leister SEAMTEK 36





Easy, economical and safe welding.

Welding machine

SEAMTEK 36



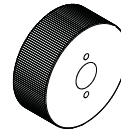
- Suitable for seam or tape welding
- For different weld types like overlap, butt joints, any hem pipe, tape and prayer welds
- Test program to optimize weld parameters
- Easy access to welding process
- Quickly changeable accessories for many applications
- Easy operation multilingual touch-screen with 99 memory settings

Technical data

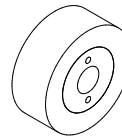
Voltage	V~	230 / 240
Power	W	3500 with small pump 3900 with large pump
Temperature	°F	95 – 1292
Speed	ft/min	0.82 – 72
Dimensions (L × W × H)	inches	67 × 32 × 67
Weight	lbs	728
Regulated weld pressure	psi	15 – 90
Maintained air pressure	psi	90
Welding seam width	inches (mm)	0.3 – 2.5 (8 – 64)

Article No.:

150.457	SEAMTEK Base version with pedestal, 2 steel pressure rollers
	1-inch, standard 1-inch nozzle
150.887	Quick arm
150.774	Side arm
151.161	Tape Delivery System (TDS)
124.200	Transport Box



	Wheel, Steel, Ø 2.5 inch
151.777	0.3" (8 mm)
151.611	0.5" (13 mm)
151.549	0.75" (19 mm)
150.502	1" (25 mm)
152.269	1.5" (38 mm)
151.548	2" (50 mm)
	(big ped head optional)
152.426	2.16" (55 mm)
	(big ped head optional)
151.547	2.5" (64 mm)
	(big ped head optional)

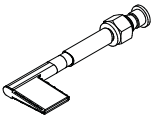
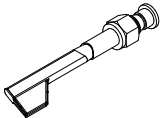
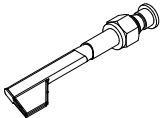
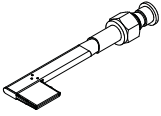
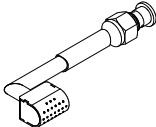
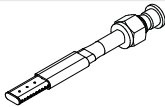
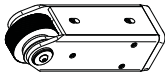
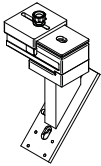
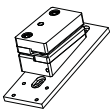
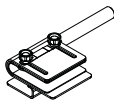


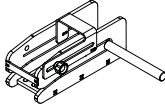
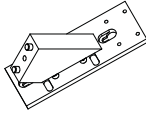
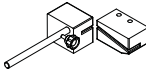
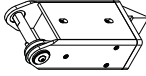
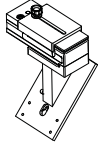
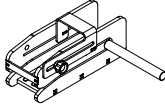
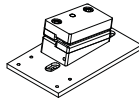
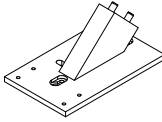
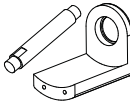
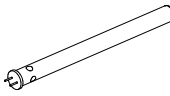
	Wheel, Silicone, 50A, Ø 2.5 inch
153.406	0.3" (8 mm)
151.609	0.5" (13 mm)
151.604	0.75" (19 mm)
150.487	1" (25 mm)
153.401	1.5" (38 mm)
151.603	2" (50 mm)
	(big ped head optional)
153.420	2.16" (55 mm)
	(big ped head optional)
151.602	2.5" (64 mm)
	(big ped head optional)

Additional versions available upon request



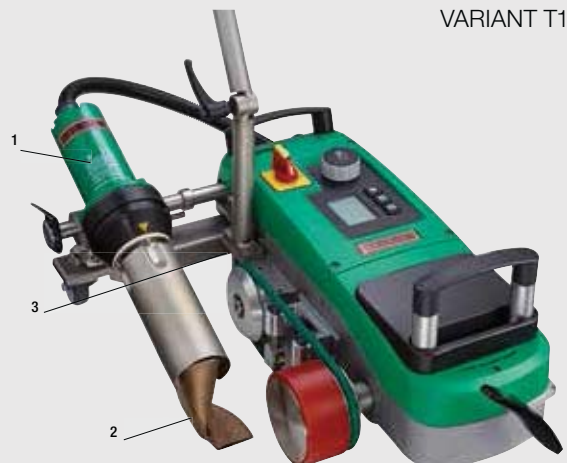
Example: Clothing and apparel

	152.175	Seamtek Nozzle
	152.183	0.30" (8 mm) Low Flow
	151.598	0.50" (13 mm) Low Flow
	151.601	0.75" (19 mm)
	151.597	1.0" (25 mm)
	151.608	1.5" (38 mm)
	151.599	2.0" (50 mm) -big air pump/big ped head optional
	151.850	2.16" (55 mm) -big air pump/big ped head optional
	151.600	2.5" (64 mm) -big air pump/big ped head optional
	152.941	Closing nozzle with angle
	152.956	Hem nozzle
	153.730	Taping Nozzle 1.0 inch (25 mm)
	152.931	Adjustable taping nozzle 2.0" (50 mm)
	150.791	Standard ped head
	151.723	Adjustable overlap guide, 0.2-1.5 inch (with guide holder set 152.415)
	151.724	Butt welding guide with ground plate
	152.435	Adjustable hem-/ piping guide (without guide holder set 152.415)

	153.580	Open Hem/Pocket Guide up to 4.33" (without guide holder 152.415 for standard ped head)
	152.415	Guide holder set for standard ped head (wheels 0.3-1.5")
	151.952	Overlap guide for quick arm
	151.486	Big ped head Seamtek (for wheels 0.3-2.5" / wheel not included)
	152.034	Adjustable overlap guide for big ped head (with guide holder set 153.331)
	153.580	Hem-Open Hem Guide up to 4" (without guide holder 153.331 for big ped head)
	153.334	Butt weld guide with ground plate for big ped head
	153.331	Guide holder set for big ped head (wheels 0.3-2.5")
	153.664	Large Wheel Holder Set for Quickarm (wheels >0.98 inch) wheel not included
	150.581	Heating Element 230V/3600W

VARIANT T1: Quality, productivity, ergonomic.

The robust VARIANT T1 is very versatile. It is used in various applications for hem, overlap and tape welding. VARIANT T1 convinces with its high working speed, particularly with vehicle tarpaulin production for welding lap, reinforcement and anti-vandalism tapes. Thanks to the "e-Drive" operating concept, setting the relevant welding parameters could not be easier.



VARIANT T1

VARIANT T1

1		Economical: Up to 59 ft/min welding speed and powerful, maintenance-free hot air blower.
2		Reliable: Constant, wrinkle-free welds thanks to process-optimized nozzle.
3		Hem- / piping welding kit: Welding hems, hem pockets and piping in short time with easy-to-use accessories.

Technical Textiles and Industrial Fabrics

VARIANT T1 TAPE

1		User-friendly: Clear display plus "e-Drive" and storable welding parameters.
2		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).
3		Feeding to perfection: The new guide rollers make it easy to position the material and keep it taut right up to the final inch.
4		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.
5		Optional: The laser guide keeps the VARIANT T1 TAPE firmly on course.

VARIANT T1 TAPE 2.0 inch



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	inches (mm)	1 or 1.5 (20 or 40)
Size (L x W x H)	inches	28 x 16 x 10
Weight	lbs	50 (without 5 ft cord)
Conformity mark		CE
Protection class I		⊕

Article No.:

141.891	VARIANT T1, 230 V/ 3680 W, 1.6" (40 mm) nozzle, with Euro plug
141.892	VARIANT T1, 230 V/ 3680 W, 0.8" (20 mm) nozzle, with Euro plug
141.893	VARIANT T1, 400 V/ 5700 W, 1.6" (40 mm) nozzle, w/CEE plug (3LNPE)
141.894	VARIANT T1, 400 V/ 5700 W, 0.8" (20 mm) nozzle, w/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" (25 mm)
	148.962	Conversion kit, VARIANT T1 Overlap to VARIANT T1 TAPE 2" (50 mm)
	139.438	Additional weight 7.5 lbs
	116.798	Brass brush
	140.771	Overlap welding nozzle 1.0" (25 mm)
	141.558	Overlap welding nozzle 1.5" (40 mm)
	140.429	1.0" (25 mm) pressure roller complete
	138.938	2.0" (45 mm) pressure roller complete
	142.705	Sturdy storage case
	107.612	Heating elements 230 V
	107.613	400 V



An economical, ergonomic tool for the welding of reinforcement tapes.

Hot-air tape 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	5 – 59	
Welding seam width	inches (mm)	2.0 or 1.0 (25 or 50)	
Size (L x W x H)	inches	28 x 16 x 10	
Weight	lbs	62 (with 5 ft cord)	
Conformity mark		CE	
Approval mark		§	
Certification scheme		CCA	
Protection class I		⊕	

Article No.:

148.963	VARIANT T1 TAPE 1" (25 mm), 230 V / 3680 W, with Euro plug
148.964	VARIANT T1 TAPE 2" (50 mm), 230 V / 3680 W, with Euro plug
148.965	VARIANT T1 TAPE 1" (25 mm), 400 V / 5700 W, with Euro plug
148.966	VARIANT T1 TAPE 2" (50 mm), 400 V / 5700 W, with Euro plug

Additional versions available upon request.

Accessories VARIANT T1 TAPE

	149.652 Conversion kit VARIANT T1 TAPE 1" (25 mm) to VARIANT T1 TAPE 2" (50 mm), 1 nozzle, 4 guide rollers, 1 gauge
	149.653 Conversion kit VARIANT T1 TAPE 2" (50 mm) to VARIANT T1 TAPE 1" (25 mm), 1 nozzle, 4 guide rollers, 1 gauge
	149.654 Conversion kit VARIANT T1 TAPE to VARIANT T1 Overlap 0.8" (20 mm)
	149.655 Conversion kit VARIANT T1 TAPE to VARIANT T1 Overlap 1.6" (40 mm)
	149.100 Magnetic tool holder
	149.344 Laser guide
	139.438 Additional weight 7.5 lbs
	116.798 Brass brush
	107.612 Heating elements 230 V 107.613 400 V

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



- 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	inches (mm)	0.8 or 1.2 (20 or 30)
Size (L x W x H)	inches	17 x 11 x 8
Weight	lbs	25 (with 10 ft cord)
Conformity mark		CE
Certification scheme		CCA
Protection class I		⊕

Article No.:

115.044	UNIPLAN E 0.8" (20 mm), 120 V / 1800 W, without plug
115.043	UNIPLAN E 1.2" (30 mm), 120 V / 1800 W, without plug
115.056	UNIPLAN S 1.2" (30 mm), 120V / 1800 W, without plug

Additional versions available upon request.

Accessories UNIPLAN E / UNIPLAN S

	115.065 0.8 inch (20 mm) overlap welding unit
	115.066 1.2 inch (30 mm) overlap welding unit
	115.067 Weight with holder
	115.839 Handle with holder and screws
	119.933 0.8 inch (20 mm) hem welding kit
	119.934 1.2 inch (30 mm) 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

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

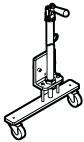


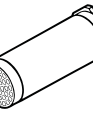

Technical Data		TAPEMAT	TAPEMAT SPIEGEL
Voltage	V~	3 × 400	3 x 400
Power	kW	10	10
Temperature	°F	~ 1200	~ 1200
Speed	ft/min	13 – 66	13 - 66
Welding seam width	inches (mm)	2 (50)	4 / 5 (100 / 125)
Size (L × W × H)	inches	22 × 17 × 15	22 x 17 x 15
Weight	lbs	88	88
Conformity mark		CE	CE
Approval mark		§	§
Certification scheme		CCA	CCA
Protection class I		⏏	⏏
Article No.:			
129.757	TAPEMAT 2" (50 mm), 400 V / 10 kW, with 16A CEE plug		
138.229	TAPEMAT Spriegel 4" (100 mm) 400 V / 10 kW, with 16A CEE plug		
133.597	TAPEMAT Spriegel 5" (125 mm), 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

Accessories TAPEMAT / TAPEMAT SPIEGEL

	138.242 Lifting device
	131.690 TAPEMAT 2" (50 mm) welding nozzle
	137.412 TAPEMAT SPIEGEL 4" (100 mm) welding nozzle, complete weld seam 0.8" (20 mm) left and right
	135.392 5" (125 mm) welding nozzle, complete weld seam 0.8" (20 mm) left and right
	101.991 3 × 400 V / 3 × 3300 W heating element





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Hot Air Tools

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Product overview wedge welders for Civil Engineering / Tunneling / Landfills

							
Device type	GEOSTAR G5	GEOSTAR G7	ASTRO / ASTRO USB	COMET / COMET USB	TWINNY T / TWINNY T USB	TWINNY S	TRIAC DRIVE AT
Voltage V~	120 / 230	230	230	120 / 230	230	120 / 230	230
Max. Power W	1800 / 2800	2800	1800	1800 / 1500 / 1200	2300	1900 / 2900	1700
Temperature °F	176 – 860	176 – 860	176 – 788	176 – 788	176 – 1040	176 – 1040	176 – 1202
Speed ft/min	2.6 – 39	2.6 – 39	2.6 – 16.4	2.6 – 10.5	2.6 – 10.5	0.7 – 2.5 (13.0/20.0 ¹)	1.6 – 9.8
Max. Welding pressure N	1500	1500	1500	1000	1000	1000 (500)	n.a.
Weld seam width inches	0.8 x 0.6	0.8 x 0.6	2 x 0.6	2 x 0.6	2 x 0.6	2 x 0.6	1.2
Material thickness mil	30 - 118	40 - 118	60 – 120	20 – 120	20 – 120	20 – 120	20 – 120
Max. overlap inch	5.9	5.9	5.9	4.9	4.9	4.9	
Size (L x W x H) inches	19 x 11 x 11	19 x 11 x 11	17 x 11 x 12	12 x 10 x 10	13 x 14 x 10	14 x 15 x 11	12 x 9 x 15
Weight lbs	36	39	50.0	16.5	15.2 – 17.4	15.2 – 17.4	9
Conformity mark	CE	CE	CE	CE	CE	CE	CE
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	✓	✓	✓	✓	✓		✓
Catalog page	 58/59	58/59	60/61	62/63	64	65	67

¹ For details, see page 67

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 inches	Ø 0.16 – 0.2	Ø 0.12 – 0.16 / Ø 0.16 – 0.2	Ø 0.12 – 0.16	Ø 0.12 – 0.16 / Ø 0.16 – 0.2	Ø 0.12 – 0.16 / Ø 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) inches	33 × 5 × 10	22 × 4 × 12	18 × 4 × 10	26 × 4 × 7	23 × 4 × 9
Weight lbs	31	19	13	16	15
Conformity mark	CE	CE	CE	CE	CE
Protection class II	⊕	⊕	⊕	⊞	⊞
Features					
Maintenance-free blower	✓	✓	✓		
Multifunction display	✓	✓	✓		
Adjustable grip	✓	✓	✓	✓	✓
Catalog page	 68	69	70	71/72	71/72






² Alternative: WELDPLAST S2 TPO

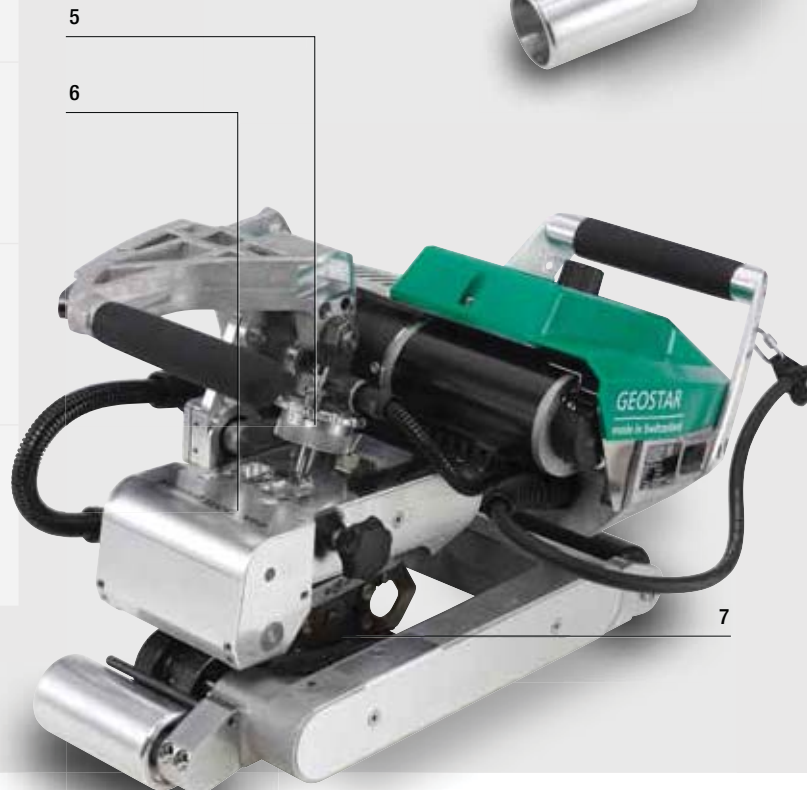
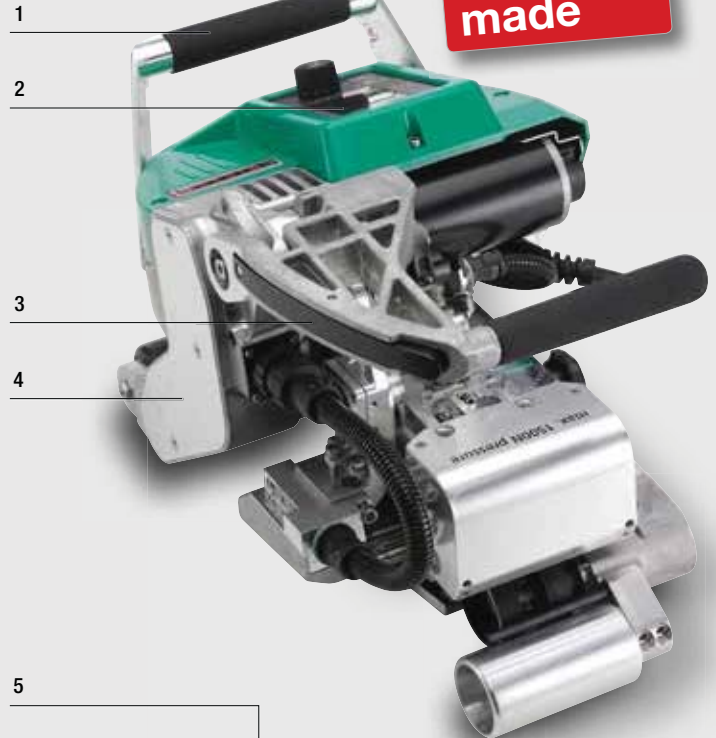
GEOSTAR G5 and GEOSTAR G7 – Faster, lighter, smarter

Wedge welding redefined: Leister's new GEOSTAR welders change the civil engineering landscape. This mid-size, lightweight welder boasts a robust, cast aluminum frame for quality welding of geomembranes. The GEOSTAR also features a unique digital display with all key weld parameters: heat, speed, pressure and supply voltage. The new design makes field servicing a cinch—wedge can be removed and replaced in under a minute. Additional features

Wedge welders

GEOSTAR G5/G7

1		Maintenance friendly: The well-thought-out construction enables easy access to mechanical parts for cleaning or service.
2		eDrive: Integrated display of weld pressure, travel speed, wedge temperature and supply voltage enables constant monitoring of key weld parameters during the work process.
3		Ergonomic: The newly developed clamping mechanism enables simple, one-hand operation to engage rollers and begin welding.
4		Shifting gears: The GEOSTAR is equipped with a two-gear transmission that can be modified in accordance with work conditions in just a few steps.
5		Weld pressure measurement: Constant measurement and display of weld pressure.
6		Spacious: Plenty of room for easy loading of material into the machine to accelerate the starting of the welding process.
7		The new wedge geometry: The new geometry supports the natural flow of geomembranes over the wedge. An intelligent interface makes it possible to replace the wedge in less than one minute!



include: easy loading of material, natural flow of material through the machine and innovative handle ergonomics for easy carry and rest positions. The GEOSTAR is available in two performance classes: the standard GEOSTAR G5 and extended-wedge GEOSTAR G7.



The GEOSTAR easily welds 800 ft. without difficulty in a single pass during a field test (South Africa).

Wedge welders

GEOSTAR G5/G7

- Welding speed up to 39 ft/min
- At 36 lbs (G5) and 39 lbs (G7) ~20-50% lighter than comparable machines
- High heating capacity / heating power
- Digital display of weld pressure
- Wedge replacement in less than one minute
- Integrated voltage display
- Adjustable chassis height

Technical data

		GEOSTAR G5		GEOSTAR G7
Voltage	V~	120	230	230
Frequency	Hz	50/60		50/60
Power	W	1800	2800	2800
Max. heating temperature	°F	860°		860°
Welding wedge	inches	3.5 x 2		5 x 2
Max. overlap	inches	6		6
Max. welding force	lbs	350		350
Weld width with test channel	inches	.08 x 0.6" (2 x 15 mm)		.08 x 0.6" (2 x 15 mm)
Drive speed*1	ft/min	2.6 - 39		2.6 - 39
		Level 1: 2.6–20		Level 1: 2.6–23
		Level 2: 5 –39		Level 2: 5–39
Dimensions (L x W x H)	inch	19 x 11 x 11		19 x 11 x 11
Weight	lbs	36		39
Materials		HDPE (30 - 120 Mil), PP, HDPE (30 - 120 Mil) LDPE, TPO, FPO PP, LDPE, TPO, FPO PVC-P*2, CSPE*2, EIA*2 additional materials upon request		
Mark of conformity		CE		
Protection Class I		⊕		

*1: Conversion of gear 1–2 using position change of sprocket wheels

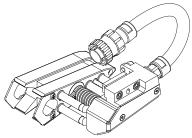
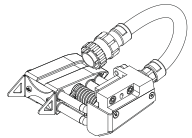

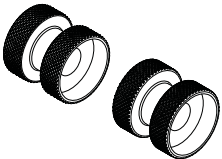
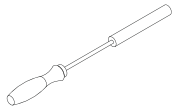
*2: Requires steel wedge

Included with purchase: Automatic welder, transport box, hexagon socket wrenches (3 pcs.), cleaning brush, operating instructions

Article No.

151.618	GEOSTAR G5, 120V/1800W, Roller width 2" (50 mm), copper wedge with test channel, without plug
151.683	GEOSTAR G5, 230V/2800W, Roller width 2" (50 mm) copper wedge with test channel, with Euro plug
151.035	GEOSTAR G7, 230V/2800W, Roller width 2" (50 mm), copper wedge with test channel, with Euro plug

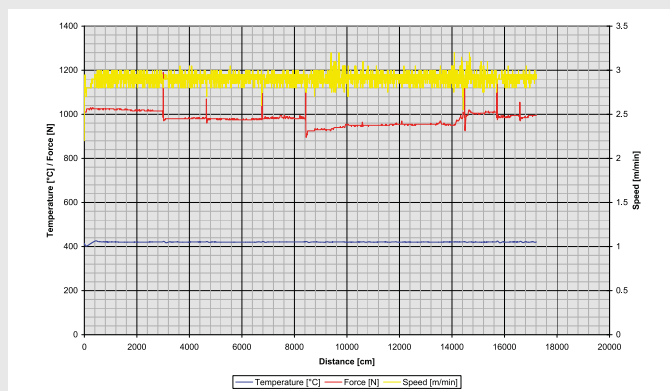
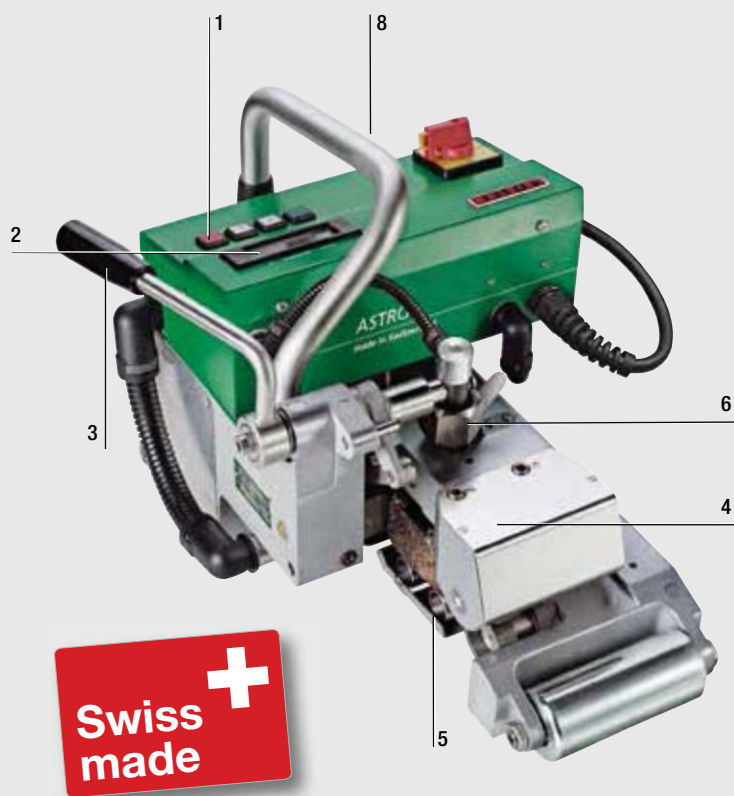
Accessories GEOSTAR G5/G7

	148.489 Wedge Kit GEOSTAR G7, 5 x 2" (130 x 50 mm), 230V/2500W, copper wedge with test channel
	151.684 Wedge Kit GEOSTAR G5, 3.5 x 2" (90 x 50 mm), 230V/2500W, copper wedge with test channel
	153.557 stainless steel wedge with test channel
	Wedge Kit GEOSTAR G5, 3.5 x 2" (90 x 50), 120V/1600W, copper wedge with test channel
	149.174 copper wedge with test channel
	153.560 stainless steel wedge with test channel
	Other wedges available upon request
	153.361 Drive roll D2" x 2 (3"); Traction Step, Steel, pointed knurled, with test channel
	Drive roll D2" x 2";
	153.338 Steel, pointed knurled, with test channel
	153.359 Steel, blunt edge knurled, with test channel
	Other rollers on request
	151.847 Brass brush

ASTRO / ASTRO USB: The thoroughbred.

The ASTRO and ASTRO USB are used anywhere all over the world and 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 weld parameters.

Wedge welder ASTRO USB



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

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: The recording of all relevant weld parameters becomes child's play with the USB memory system.
9		Handy storage case: Convenient transport – perfect protection. (Included with purchase)



Fast and perfect!



ASTRO CPL special version for concrete protective liners.

Wedge welder ASTRO



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

Technical Data

Voltage	V~	230
Power	W	1800
Temperature	°F	176 – 788
Max. overlap	inches (mm)	6 (150)
Speed	ft/min	2.6 – 16.4
Welding pressure	N	100 – 1500
Weld seam width	inches	2 × 0.6
Material thickness	mil	60 – 120
Size (L × W × H)	inch	17 × 11 × 12
Weight	lbs	50
Conformity mark	CE	
Protection class I	⚡	

Article No.:

117.100 ASTRO, 230 V / 1800 W, 2" (50 mm) roller, with test channel, with Euro plug, sturdy storage case

Included with purchase: Welder, manual, storage case

Wedge welder ASTRO USB



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

Technical Data

Voltage	V~	230
Power	W	1800
Temperature	°F	176 – 788
Max. overlap	inches (mm)	6 (150)
Speed	ft/min	2.6 – 16.4
Welding pressure	N	100 – 1500
Weld seam width	inches	2 × 0.6
Material thickness	mil	60 – 120
Size (L × W × H)	inches	17 × 11 × 12
Weight	lbs	50
Conformity mark	CE	
Protection class I	⚡	

Article No.

141.126 ASTRO USB, 230 V / 1800 W, 2" (50 mm) roller, 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 landfill sites, mines and tunnels. Documentation made simple: The COMET USB 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
Max. overlap	inches (mm)	5 (125)
Speed	ft/min	2.6 – 10.5
Welding pressure	N	100 – 1000
Weld seam width	inches	2 × 0.6, with test channel
Material thickness	mil	20 – 120
Size (L × W × H)	inches	12 × 10 × 10
Weight	lbs	17
Conformity mark	CE	
Protection class I	⊕	

Article No.:

107.547	COMET, with 2.0" (50 mm) wedge for PE, 230 V / 1200 W *
107.538	COMET, with 2.8" (70 mm) wedge for PE, 230 V / 1500 W *
145.893	COMET, with 3.7" (95 mm) wedge for PE 230 V / 1850 W *
107.558	COMET, with 2.0" (50 mm) wedge for PVC, 230 V / 1200 W *
107.553	COMET, with 2.0" (50 mm) wedge for PE, 120 V / 1200 W *
107.539	COMET, with 2.8" (70 mm) wedge for PE, 120 V / 1500 W *

Additional versions available upon request. * = with test channel, EURO plug
Included with purchase: Welder, manual, guide-bar short, storage case.

Wedge welder COMET USB



- Digital display of welding pressure
- Complete recording of all relevant weld 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
Max. overlap	inches (mm)	5 (125)
Speed	ft/min	2.6 – 10.5
Welding pressure	N	100 – 1000
Weld seam width	inches	2 × 0.6, with test channel
Material thickness	mil	20 – 120
Size (L × W × H)	inches	12 × 10 × 10
Weight	lbs	17
Conformity mark	CE	
Protection class I	⊕	

Article No.:

137.626	COMET USB, with 2.0" (50 mm) wedge for PE, 230 V / 1200 W *
138.088	COMET USB, with 2.8" (70 mm) wedge for PE, 230 V / 1500 W *
146.052	COMET USB, with 3.7" (95 mm) wedge for PE, 230 V / 1850 W *

Additional versions available upon request.

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

* = with test channel, EURO plug

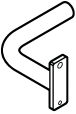
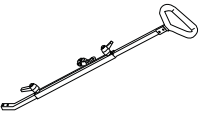
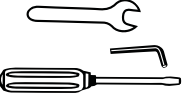



Comet operating in the tunnel ...



... or on a landfill site.

Accessories COMET / COMET USB

	112.974 Extremely light cross handle 5 lbs, material: aluminum
	129.224 Guide-bar, complete
	110.715 Tool set consists of hexagon spanner 0.3 / 0.4 / 0.5 / 0.7" and hexagon bolt 0.12 / 0.16 / 0.24"
	115.905 USB memory stick



Perfectly protected in the storage case.

126.448
(included with purchase)

Fields of application COMET / COMET USB

Power	1850 W		1500 W		1200 W	
Type of material	Wedge	Material thickness	Wedge	Material thickness	Wedge	Material thickness
PE-HD, PE-C, PP	3.7" (95 mm) copper	60 – 80 mil	2.8" (70 mm) copper	60 – 80 mil	2.0" (50 mm) copper	20 – 60 mil
PE-LD	3.7" (95 mm) copper	80 – 120 mil	2.8" (70 mm) copper	80 – 120 mil	2.0" (50 mm) copper	40 – 80 mil
PVC-P			2.8" (70 mm) steel	80 – 120 mil	2.0" (50 mm) 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 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
Max. overlap	inches	5
Speed	ft/min	2.6 – 10.5
Welding pressure	N	100 – 1000
Size (L x W x H)	inches	13 x 14 x 10
Weight	lbs	6.9 – 7.9
Conformity mark	CE	
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:

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

Combi-wedge welder TWINNY T USB



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

Technical Data

Voltage	V~	230
Power	W	2300
Temperature	°F	176 – 1040
Max. overlap	inches (mm)	5 (125)
Speed	ft/min	2.6 – 10.5
Welding pressure	N	100 – 1000
Size (L x W x H)	inches	13 x 14 x 10
Weight	lbs	7 – 8
Conformity mark	CE	
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

Included with purchase:

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

Tunneling version: Welder, manual, short guide-bar (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.



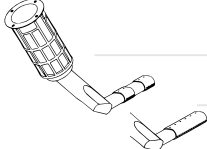
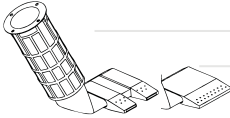



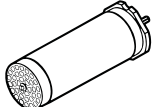
Technical Data

Voltage	V~	120 / 230
Power	W	2900
Temperature	°F	176 – 1110
Max. overlap	inches (mm)	5 (125)
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)	inches	14 x 15 x 11
Weight	lbs	14 – 15
Conformity mark		CE
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, combi-wedge long, w/o plug

Accessories TWINNY T / T USB / TWINNY S

	112.974 Extremely light cross handle 5 lbs, material: aluminum
	129.224 Long guide-bar, complete (shown) 100.539 Guide handle, complete
	Combi-wedge short 100.517 2.0" (50 mm), with test channel 100.519 1.2" (30 mm), with test channel 100.518 2.0" (50 mm), without test channel 100.520 1.2" (30 mm), without test channel
	Combi-wedge long, complete 100.525 2.0" (50 mm), with test channel 100.526 2.0" (50 mm), without test channel, slotted, perforated
	110.715 Tool set consists of hexagon spanner 0.3" / 0.4" / 0.5" / 0.7" and 0.12" / 0.16" / 0.24"
	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:

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



TRIAC DRIVE AT: The little all-rounder

This semi-automatic 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 semi-automatic 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)	inches	12 x 9 x 15
Weight (with 10 ft cord)	lbs	9
Conformity mark	CE	
Protection class II	□	

Article No.:	
115.125	TRIAC DRIVE ST without guide, 100-120 V 1600 W, nozzle outside, without grip, 1.5" (40 mm) welding nozzle
117.331	TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, 1.2" (30 mm) welding nozzle, without grip, pressure roller silicone, EURO-plug
148.606	TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, 0.5" (12 mm) welding nozzle, with grip, pressure roller steel, EURO-plug
148.605	TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, 1.5" (40 mm) welding nozzle, without grip, pressure roller steel, EURO-plug
Additional versions available upon request.	

Accessories TRIAC DRIVE AT

	115.274	0.5" (12 mm) pressure roller, steel
	115.176	1.2" (30 mm) pressure roller, steel
	115.712	1.6" (40 mm) pressure roller, steel
	115.857	1.2" (30 mm) pressure roller, silicone
	115.921	1.6" (40 mm) pressure roller, silicone
	115.276	Single supporting carrier, brass
	138.570	Single supporting carrier, silicone
	114.682	Supporting wheel, brass
	Overlap welding nozzle, inside, push-fit	
	115.281	1.5 inch (38mm), with grip
	115.279	1.2 inch (30 mm), with grip
	115.699	0.5 inch (12 mm), without grip
	115.703	1.5 inch (38 mm), without grip
	Overlap welding nozzle, outside, push-fit	
	115.280	1.5" (38 mm), with grip
	115.278	1.2" (30 mm), with grip
	115.702	1.5" (38 mm), without grip
	115.700	1.2" (30 mm), without grip
	108.985	Storage case (included with purchase)
	142.717	230 V / 1550 W heating element for TRIAC ST
	142.718	120 V / 1550 W heating element for TRIAC ST
	142.637	230 V / 1550 W heating element for TRIAC AT

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

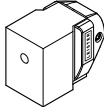

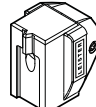
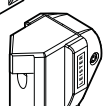
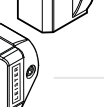

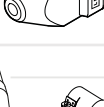
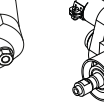


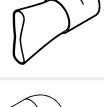

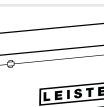


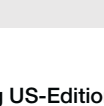




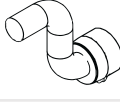
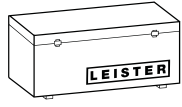
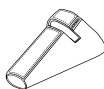
Voltage	V~	230
Power	W	4600
Material		PE / PP
Welding rod	inches/mm	Ø 0.16 – Ø 0.2 / 4 - 5 mm
Output	lbs/hr	8.6 – 13.2
Size (L x W x H)	inches	33 x 5 x 10
Weight	lbs	31
Conformity mark		CE
Protection class I		⊕

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

Welding shoe complete	
	146.239 2 x 2" blank welding shoe
	146.240 3 x 2" blank welding shoe
	146.241 1.0" (25 mm) overlap
	146.242 1.4" (35 mm) overlap
	145.899 1.6" (40 mm) overlap
	146.245 0.8" (20 mm) V-seam
	146.246 1.0" (25 mm) V-seam
	146.247 1.2" (30 mm) V-seam
	146.232 0.8" fillet weld seam (a = 0.5")
	146.233 1.0" fillet weld seam (a = 0.7")
	146.234 1.2" fillet weld seam (a = 0.8")
	146.644 Corner outside seam 0.4" (10 mm)
	146.646 Corner outside seam 0.5" (12 mm)
	146.652 Corner outside seam 0.6" (15 mm)
	146.230 Corner seam Ø 0.5" (14 mm)
	146.218 Corner seam Ø 0.8" (20 mm)
	144.905 45° angled adapter
	145.705 90° angled adapter
Caution: You must use welding shoes with an integrated air guide with this adapter.	
	117.055 1.4" (35 mm) preheating nozzle, large
	136.859 2.0" (50 mm) preheating nozzle, XL
	117.790 Side hot-air guide (Position 9h/3h)
	116.367 Ultra strong storage case WELDPLAST S6 (included with purchase)
	149.744 Insulation sleeve / heat blanket

* 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	inches	Ø 0.12 – 0.16 / Ø 0.16 – 0.2
Output	lbs/hr	3.3 – 8.8
Size (L x W x H)	inches	22 x 4 x 12
Weight	lbs	19
Conformity mark		CE
Protection class I		⊕

Article No.:

146.812	WELDPLAST S4, 230 V / 3680 W, 0.16–0.2" (4–5 mm), top hot air guide, overlap welding shoe 1.6" (40 mm), preheating nozzle large, with Euro plug, storage case
116.948	WELDPLAST S4, 230 V / 3680 W, 0.12–0.16" (3–4 mm), side hot air guide, blank welding shoe, preheating nozzle large, medium and small, with Euro plug, storage case

Accessories WELDPLAST S4

	Welding shoe complete
	146.239 2 x 2 x 2" blank welding shoe 146.240 3 x 2 x 2" blank welding shoe
	146.241 1.0" (25 mm) overlap 146.242 1.4" (35 mm) overlap 145.899 1.6" (40 mm) overlap
	146.243 0.5" (12 mm) V-seam 146.244 0.6" (15 mm) V-seam 146.245 0.8" (20 mm) V-seam 146.246 1.0" (25 mm) V-seam 146.247 1.2" (30 mm) V-seam
	146.231 0.6" fillet weld seam (a = 0.4") 146.232 0.8" fillet weld seam (a = 0.5") 146.233 1.0" fillet weld seam (a = 0.7") 146.234 1.2" fillet weld seam (a = 0.8")
	146.642 Corner outside seam 0.3" (8 mm) 146.644 Corner outside seam 0.4" (10 mm) 146.646 Corner outside seam 0.5" (12 mm) 146.652 Corner outside seam 0.6" (15 mm)
	146.230 Corner seam Ø 0.5" (14 mm) 146.218 Corner seam Ø 0.8" (20 mm)
	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
	preheating nozzle 117.053 small, 0.8" (20 mm) 117.518 medium, 1.0" (25 mm) 141.177 large, 1.4" (35 mm)
	118.804 Tool rest
	136.231 Pre-heat reflector
	149.723 Insulation sleeve / heat blanket

* 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	inches	Ø 0.12 – Ø 0.16
Output Ø 0.12 inch (3 mm)	lbs/hr	PE: 1.3 – 2.9 PP: 1.1 – 2.65
Output Ø 0.16 inch (4 mm)	lbs/hr	PE: 2.2 – 5.0 PP: 2.0 – 4.4
Size (L x W x H)	inches	18 x 4 x 10
Weight	lbs	13
Conformity mark		CE
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

	Welding shoe complete
	145.945 1.8 x 1.2 x 2.1" blank welding shoe
	145.946 2.9 x 2.0 x 2.3" blank welding shoe
	145.896 1.0" (25 mm) overlap
	145.947 1.2" (30 mm) overlap
	145.897 1.4" (35 mm) overlap
	145.915 0.3 / 0.4" (8 / 10 mm) V-seam
	145.907 0.5" (12 mm) V-seam
	145.903 0.6" (15 mm) V-seam
	145.909 0.8" (20 mm) V-seam
	145.944 0.3 / 0.4" fillet weld (a = 0.3")
	145.812 0.6" fillet weld (a = 0.4")
	145.940 0.8" fillet weld (a = 0.55")
	146.645 Corner outside seam 0.4" (10 mm)
	146.649 Corner outside seam 0.5" (12 mm)
	146.651 Corner outside seam 0.6" (15 mm)
	145.811 Corner seam Ø 0.55" (14 mm)
	145.488 Corner seam Ø 0.8" (20 mm)
	139.460 45° angled adapter
	139.461 90° angled adapter
	134.361 Air filter set (included with purchase)
	143.776 Textile dust filter (sold separately)
	131.451 WELDPLAST S2 Tool rest
	136.231 Pre-heat reflector
	154.002 Insulation sleeve / heat blanket

* 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 ground. The slightly shorter 3C also 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					
	inches	Version Ø 0.12 – 0.16		Version Ø 0.16 – 0.2	
Welding rod Ø	inches (mm)	0.12 (3 mm)	0.16 (4 mm)	0.16 (4 mm)	0.2 (5 mm)
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)	inches	26 x 4 x 7			
Weight	lbs	16			
Conformity mark		CE			
Protection class II		□			

Article No.:
118.300 FUSION 3, 230 V / 3500 W, welding rod Ø 0.12 – 0.16" (3–4 mm), Euro plug
144.615 FUSION 3, 230 V / 3500 W, welding rod Ø 0.16 – 0.2" (4–5 mm), Euro plug

Included with purchase: FUSION 3, blank 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					
	inches	Version Ø 0.12 – 0.16		Version Ø 0.16 – 0.2	
Welding rod Ø	inches (mm)	0.12 (3 mm)	0.16 (4 mm)	0.16 (4 mm)	0.2 (5 mm)
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)	inches	23 x 4 x 9			
Weight	lbs	15			
Conformity mark		CE			
Protection class II		□			

Article No.:
123.866 FUSION 3C, 230 V / 2800 W, Welding rod Ø 0.12 – 0.16" (3–4 mm), Euro plug
144.826 FUSION 3C, 230 V / 2800 W, Welding rod Ø 0.16 – 0.2" (4–5 mm) Euro plug

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



The FUSION 3 for comfortable working in upright positions.

Accessories FUSION 3 / FUSION 3C

	Welding shoe complete
	145.945 1.8 x 1.2 x 2.1" blank welding shoe
	145.946 2.9 x 2.0 x 2.3" blank welding shoe
	145.896 1.0" (25mm) overlap
	145.947 1.2" (30 mm) overlap
	145.897 1.4" (35 mm) overlap
	145.915 0.3 / 0.4" (8 / 10 mm) V-seam
	145.907 0.5" (12 mm) V-seam
	145.903 0.6" (15 mm) V-seam
	145.909 0.8" (20 mm) V-seam
	145.916 1.0" (25 mm) V-seam
	145.905 1.2" (30 mm) V-seam
	145.944 0.3 / 0.4" fillet weld (a = 0.3")
	145.812 0.6" fillet weld (a = 0.4")
	145.940 0.8" fillet weld (a = 0.55")
	145.816 1.0" fillet weld (a = 0.7")
	145.817 1.2" fillet weld (a = 0.8")
	146.643 Corner outside seam 0.3" (8 mm)
	146.645 Corner outside seam 0.4" (10 mm)
	146.649 Corner outside seam 0.5" (12 mm)
	146.651 Corner outside seam 0.6" (15 mm)
	145.811 Corner seam \varnothing 0.55" (14 mm)
	145.488 Corner seam \varnothing 0.8" (20 mm)
	148.817 45° angled adapter
	148.816 90° angled adapter
	135.082 Stainless steel air filter for FUSION 3C
	118.804 Tool rest
	136.231 Pre-heat reflector
	149.421 Insulation sleeve FUSION 3
	149.420 Insulation sleeve FUSION 3C

General accessories

	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
	137.855 Leister cutter with four spare blades
	138.902 Hooked blade for LEISTER-cutter (10 dispenser with 10 pcs=100 pcs)
	138.539 Straight-edge blade for LEISTER-cutter (10 dispenser with 10 pcs = 100 pcs)

EXAMO: The inspector.

Is your seam sealed? Can it withstand the specified peel, tensile and shear forces? EXAMO performs tests at the construction site – quick, reliable and uncomplicated.



Blank in uniform size, quickly produced with the Coupon Cutter.

Tensiometer

EXAMO 300F USB, 600F USB



- 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)
- Electronic recording of measurement data

Technical Data

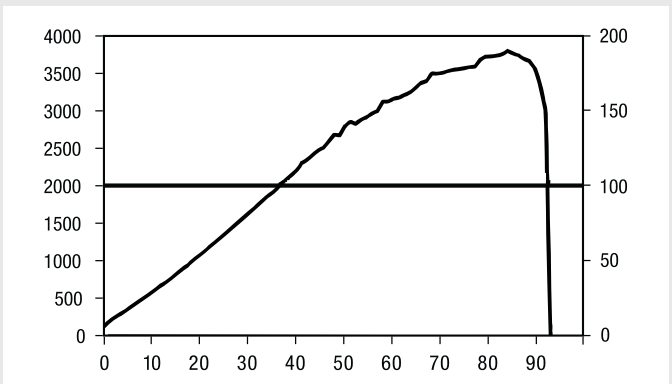
Type		300F USB	600F USB
Voltage	V~	230	120
Power	W	200	200
Tensile load	N	4000	4000
Jaw spacing	inches	0.2 – 11.8	0.2 – 26.6
Range	inches	11.8	23.6
Test speed	inch/min	0.4 – 11.8	0.4 – 11.8
Sample thickness	mil	max. 276	max. 276
Sample width	inches (mm)	max. 1.6 (40) 2.4 (60) optional	max. 1.6 (40) 2.4 (60) optional
Size (L x W x H)	inches	29 x 11 x 7 (case)	41 x 11 x 7 (case)
Weight	lbs	31	39
Conformity mark		CE	CE
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

Accessories EXAMO 300F USB, 600F USB

	134.832 Testing and calibration kit to test and calibrate your EXAMO USB
	108.185 Jaw kit 2.36" (60 mm) for geotextiles, includes two pairs of jaws
	115.905 USB Memory-stick
	145.813 COUPON CUTTER 150 x 20 mm die 143.824 Spare 150 x 20 mm die 146.449 COUPON CUTTER with 1" x 6" die 146.468 Spare 1" x 6" die 143.828 Cutting plate



Visualization of an EXAMO USB report.

VACUUM PUMP / VACUUM BOX: Fast and reliable.

The simple, safe and non-destructive way to test the tightness of overlap weld seams, using the Leister VACUUM BOX/BELL. Soapy water is applied to the welding zone to be checked. After connection to the VACUUM PUMP, a vacuum is generated above the zone with the VACUUM BOX/BELL. Thanks to its generous dimensions, and the practical drain valve, even longer weld seams can be tested quickly and reliably.

Testing instruments VACUUM BELL



- Simple and precise tightness testing
- Round structural form, ideal for details and uneven surfaces.
- Manometer bar/psi

Testing instruments VACUUM BOX



- Large testing area
- Simple handling
- Clear arrangement of the fittings
- Manometer bar/psi

Testing instruments VACUUM PUMP



- Durable VACUUM PUMP
- Perfectly packaged and handy
- Flexible, robust hose

Article No.:

153.026 VACUUM BELL Ø 13" (320 mm)

152.981 VACUUM BOX 32" x 12" (810 mm x 310 mm)

153.024 VACUUM PUMP 230V

153.025 VACUUM PUMP 120V

Caution: The complete testing system is made up from a combination of one VACUUM BOX or VACUUM BELL to be operated with one VACUUM PUMP.

Compressed air testing device.

The reliable and handy compressed air testing device from Leister is the perfect solution for testing the tightness of double tap seams with test channels. The revised model now offers even more reliable results – not only during operation but also for the discovery of leaks.



Testing the leak-tightness of lap seams with test channel.

Testing instrument Compressed air testing device with thin testing needle



- Thin, flexible needle
- Simple and precise tightness testing
- High user safety through hand and needle protection
- Manometer with bar and psi scale
- Practical device case

Article No.:
142.475 Flexible injection needle with manometer

Testing instrument Compressed air testing device with thick testing needle



- Very strong, tapered needle
- Simple and precise tightness testing
- High user safety through hand and needle protection
- Manometer with bar and psi scale
- Practical device case

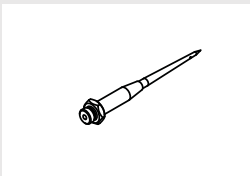
Article No.:
150.720 Tapered injection needle with manometer

Accessories



142.569 Flexible spare needle

Accessories



150.142 Tapered Spare needle





Plastic Fabrication

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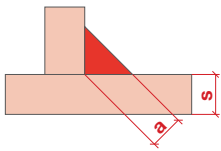
Hot-Air Hand Tools

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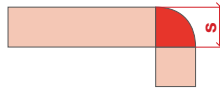


Possibilities of welding seams

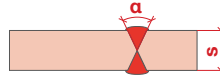
a = seam size s = material thickness α = milling angle



Fillet welding seam

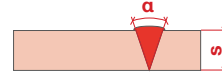


Corner outside seam



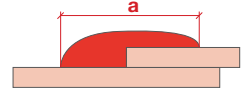
X-seam

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











V-seam

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



Overlap seam

Product comparison

	Digitally regulated extrusion welders				Air heated extrusion welders		
							
Device type	WELDPLAST S6	WELDPLAST S4	WELDPLAST S2	WELDPLAST S1	FUSION 3	FUSION 3C	FUSION 2
Output (HDPE) lbs/hr	8.6 – 13.2	3.3 – 8.8	1.3 – 5.0	0.4 – 1.8	3.5 – 7.7	3.5 – 7.7	2.9 – 4.0
Material	HD-PE, PP	HD-PE, PP	HD-PE, PP, PVC	PE, PP, PVC, etc.	HD-PE, PP	HD-PE, PP	HD-PE, PP
Wall thickness inches	0.6 – 1.6	0.3 – 1.4	0.16 – 0.8	0.16 – 0.4	0.3 – 1.0	0.3 – 1.0	0.24 – 0.6
Welding rod Ø inches	0.16 – 0.2	0.12-0.16 / 0.16-0.2	0.12 – 0.16	0.12 – 0.16	0.12 – 0.16 / 0.16 – 0.2		0.16
Weight lbs	31	19	13	10	16	15	13
Length inches	32	22	18	17	27	23	18
Voltage V~	230	230	230	230 / 120	230	230	230
Screw extruder	yes	yes	yes	yes	yes	yes	yes
Container construction	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
Pipeline construction	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
Landfills / civil engineering	✓✓	✓✓	✓	○	✓✓	✓	○
Brushless blower	yes	yes	yes	yes	no	no	no
Remarks	1	1	1	1	2	2	2
Catalog page	 81	82	83 / 84	79 / 80	85 / 86	85 / 86	87

✓✓ very suitable

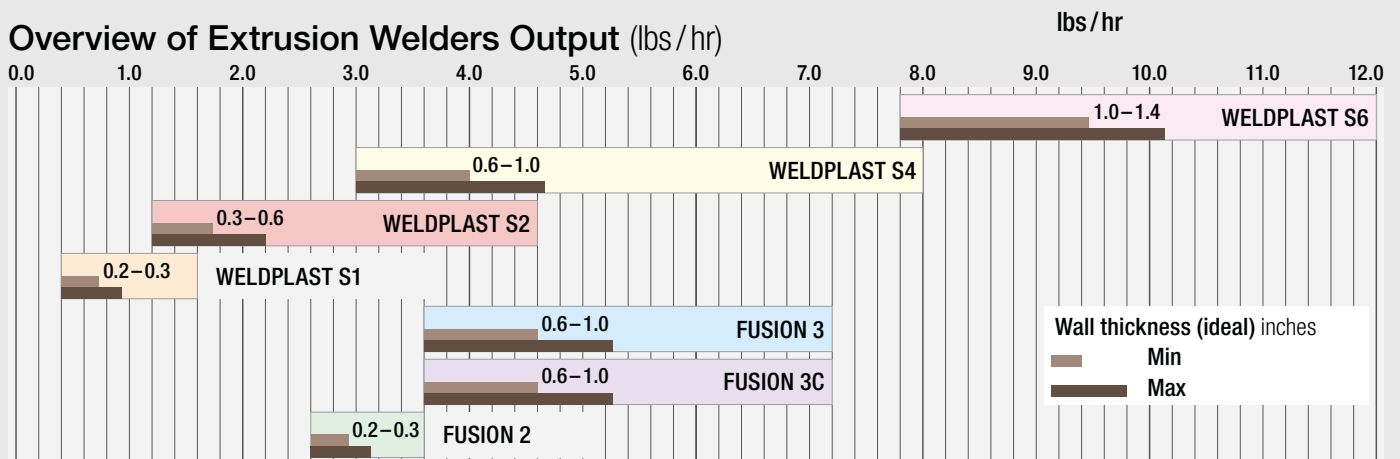
✓ suitable

○ unsuitable

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.







Overview of Extrusion Welders Output (lbs/hr)



WELDPLAST S1: Outstandingly compact.

With the WELDPLAST S1 compact extruder, you can achieve perfect seam quality. The double-sided, twist-free wire intake can work with 0.12" to 0.16" (3 to 4 mm) welding rod. Integrated LED lighting, plus the innovative operating panel, combine to provide the perfect way to monitor the process of welding—all typical kinds of materials including PVC, PE, PP, PA, PVDF or ECTFE—at all times.

Digitally regulated extrusion welder WELDPLAST S1

1		Full control: The multifunctional operating unit gives you perfect control over the welding parameters, ensures reproducible results, and guarantees more efficiency during work.
2		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.
3		Versatile: The WELDPLAST S1 can work with all typical kinds of plastic, such as PVC-U, PVC-C, HDPE, LDPE, PP, ECTFE, PVDF or PA.
4		Bright spot: The integrated LED operating lights provide you with the perfect view of the welding process.
5		More options: Double-sided, twist-free wire intake for wires of 0.12 – 0.16" (3 – 4mm).
6		Flexible: The welder can alter the plastic output easily during welding. The Leister BL blower allows stepless adjustment of the air volume.
7		Ergonomic handling: The compact, ergonomic design allows you to work in comfort while in any welding position.



Plastic Fabrication



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

Digitally regulated extrusion welder WELDPLAST S1



- Functional, ergonomic design with comfort grip areas
- Extremely high output power of 1.76 lbs/hr (HDPE)
- 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		PVC-U HDPE, LDPE, PP, PVC-C, PVDF, ECTFE, PA
Welding rod	inches	Ø 0.12 or 0.16 (3 or 4 mm)
Output	lbs/hr	0.44 – 1.76 (PVC up to 2.53 lbs/hr)
Size (L x W x H)	inches	17 x 4 x 10
Integrated welding profiles		HD-PE, PP, PVC-U, PVC-C, PVDF 10 free profile storage spaces
Weight	lbs	10
Conformity mark		CE
Approval mark		5
Certification scheme		CCA
Protection class I		⊕

Article No.:

148.396	WELDPLAST S1, 230 V / 1600 W, Ø 0.12 – 0.16" (3 – 4 mm), Euro plug
148.395	WELDPLAST S1, 120 V / 1800 W, Ø 0.12 – 0.16" (3 – 4 mm), Euro plug

Included with purchase: WELDPLAST S1, user manual, 4 pre-heating nozzles Ø 0.55" (14 mm), K10 welding shoe, storage case

Accessories WELDPLAST S1

	149.430	Welding shoe complete Blank
	149.402	0.2" / 0.23" (5 / 6 mm) fillet weld
	148.627	0.3" / 0.39" (8 / 10 mm) fillet weld
	149.401	0.5" (12 mm) fillet weld
	149.388	0.12" / 0.16" (3 / 4 mm) V-seam
	149.383	0.2" / 0.23" (5 / 6 mm) V-seam
	149.385	0.3" / 0.40" (8 / 10 mm) V-seam
	149.364	Corner For additional welding shoes, see Weldplast S2 PVC page 84
	152.720	Nozzle extension
	149.600	Top hot-air guide
	149.456	Hot-air tube, position 6h Ø 0.55" (14 mm)
	149.461	Hot-air tube, position 6h Ø 0.63" (16 mm)
	149.467	Hot-air tube, position 9h/3h Ø 0.55" (14 mm), standard
	149.469	Hot-air tube, position 9h/3h Ø 0.63" (16 mm)
	154.107	Air nozzle set Ø 0.55" (14 mm), standard
	154.106	Air nozzle set Ø 0.63" (16 mm)



General accessories

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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	inches	Ø 0.16 or Ø 0.2 (4 or 5 mm)
Output	lbs/hr	8.6 – 13.2
Size (L x W x H)	inches	33 x 5 x 10
Weight	lbs	31
Conformity mark		CE
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

	Welding shoe complete
	146.239 2" x 1.6" x 1.5" blank welding shoe 146.240 3" x 2" x 2" blank welding shoe
	146.241 1.0" (25 mm) overlap 146.242 1.4" (35 mm) overlap 145.899 1.6" (40 mm) overlap
	146.245 0.8" (20 mm) V-seam 146.246 1.0" (25 mm) V-seam 146.247 1.2" (30 mm) V-seam
	146.232 0.8" fillet weld seam (a = 0.5") 146.233 1.0" fillet weld seam (a = 0.7") 146.234 1.2" fillet weld seam (a = 0.8")
	146.644 Corner outside seam 0.4" (10 mm) 146.646 Corner outside seam 0.5" (12 mm) 146.652 Corner outside seam 0.6" (15 mm)
	146.230 Corner seam Ø 0.55" (14 mm) 146.218 Corner seam Ø 0.8" (15 mm)
	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" (35 mm) preheating nozzle, large
	136.859 2" (50 mm) preheating nozzle, XL
	117.790 Side hot-air guide
	149.744 Insulation sleeve / heat blanket WELDPLAST S6

*a = Welding seam thickness

General accessories

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WELDPLAST S4: The workmate.

The WELDPLAST S4 is the first extrusion welder 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	inches	Ø 0.12 – 0.16 Ø 0.16 – 0.2
Output	lbs / hr	4.9 – 8.8
Size (L x W x H)	inches	22 x 4 x 12
Weight	lbs	18
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" (3 – 4 mm), Euro plug, blank welding shoe
146.813	WELDPLAST S4, 230 V / 3680 W, Ø 0.16 – 0.2" (4 – 5 mm), 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" x 1.6" x 1.5" blank welding shoe
146.240	3" x 2" x 2" blank welding shoe
146.241	1" (25 mm) overlap
146.242	1.4" (35 mm) overlap
145.899	1.6" 40 mm overlap
146.243	0.5" (12 mm) V-seam
146.244	0.6" (15 mm) V-seam
146.245	0.8" (20 mm) V-seam
146.246	1" (25 mm) V-seam
146.247	1.2" (30 mm) V-seam
146.231	0.6" fillet weld seam (a = 0.4")
146.232	0.8" fillet weld seam (a = 0.5")
146.233	1" fillet weld seam (a = 0.7")
146.234	1.2" fillet weld seam (a = 0.8")
146.642	Corner outside seam 0.3" (8 mm)
146.644	Corner outside seam 0.4" (10 mm)
146.646	Corner outside seam 0.5" (12 mm)
146.652	Corner outside seam 0.6" (15 mm)
146.230	Corner seam Ø 0.55" (12 mm)
146.218	Corner seam Ø 0.8" (20 mm)
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
117.518	Small 0.8" (20 mm)
141.177	Medium 1" (25 mm)
	Large 1.4" (35 mm)
149.723	Insulation sleeve / heat blanket WELDPLAST S4

* a = Welding seam thickness

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	inches	Ø 0.12 or Ø 0.16 (3 – 4 mm)
Output Ø 0.12 inch (3 mm)	lbs/hr	PE: 1.3 – 2.9 PP: 1.1 – 2.65
Output Ø 0.16 inch (4 mm)	lbs/hr	PE: 2.2 – 5.0 PP: 2.0 – 4.4
Size (L x W x H)	inches	18 x 4 x 10
Weight	lbs	13
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	inches	Ø 0.12 or Ø 0.16 (3 – 4 mm)
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)	inches	18x 4x 10
Weight	lbs	13
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 preheat nozzles, welding shoe K-8/10 (0.3/0.4") (Art. no. 146.236), storage case

Plastic Fabrication

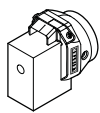
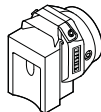
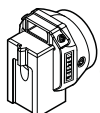
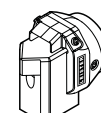












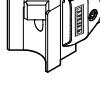



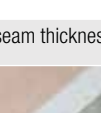

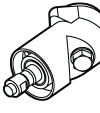
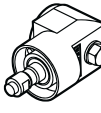
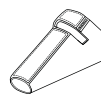


The handy WELDPLAST S2 in action.



Even inside radiuses are easy to weld.

Accessories WELDPLAST S2

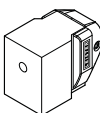

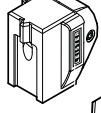
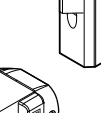




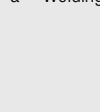


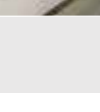






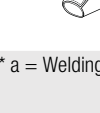
Welding shoe complete	
	145.945 1.8" x 1.2" x 2.1" blank welding shoe
	145.946 2.9" x 2.0" x 2.3" blank welding shoe
	145.896 1" (25 mm) overlap
	145.947 1.2" (30 mm) overlap
	145.897 1.4" (35 mm) overlap
	145.912 0.2 / 0.23" (5 / 6 mm) V-seam
	145.915 0.3 / 0.4" (8 / 10 mm) V-seam
	145.907 0.5" (12 mm) V-seam
	145.903 0.6" (15 mm) V-seam
	145.909 0.8" (20 mm) V-seam
	145.916 1" (25 mm) V-seam
	145.943 0.2 / 0.23" fillet weld (a = 0.3")
	145.944 0.3 / 0.4" fillet weld (a = 0.3")
	145.812 0.6" fillet weld (a = 0.4")
	145.940 0.8" fillet weld (a = 0.55")
	145.816 1" fillet weld (a = 0.7")
	146.643 Corner outside seam 0.3" (8 mm)
	146.645 Corner outside seam 0.4" (10 mm)
	146.649 Corner outside seam 0.5" (12 mm)
	146.651 Corner outside seam 0.6" (15 mm)
	145.811 Corner seam Ø 0.55" (14 mm)
	145.488 Corner seam Ø 0.8" (20 mm)
	139.460 45° angled adapter
	139.461 90° angled adapter
	154.002 Insulation sleeve / heat blanket WELDPLAST S2

* a = Welding seam thickness



With the WELDPLAST S2 perfect welds are possible

Accessories WELDPLAST S2 PVC

Welding shoe complete	
	146.239 2" x 1.6" x 2" blank welding shoe
	146.240 3" x 2" x 2" blank welding shoe
	146.241 1" (25 mm) overlap
	146.242 1.4" (35 mm) overlap
	146.248 0.2" / 0.23" (5 / 6 mm) V-seam
	146.249 0.3" / 0.4" (8 / 10 mm) V-seam
	146.243 0.5" (12 mm) V-seam
	146.244 0.6" (15 mm) V-seam
	146.235 0.2 / 0.23" fillet weld seam (a = 0.16")
	146.236 0.3 / 0.4" fillet weld seam (a = 0.27")
	146.231 0.6" fillet weld seam (a = 0.4")
	146.642 Corner outside seam 0.3" (8 mm)
	146.644 Corner outside seam 0.4" (10 mm)
	146.646 Corner outside seam 0.5" (12 mm)
	146.652 Corner outside seam 0.6" (15 mm)
	146.230 Corner seam Ø 0.55" (14 mm)
	146.218 Corner seam Ø 0.8" (20 mm)
	133.850 Top hot-air guide
	154.002 Insulation sleeve / heat blanket WELDPLAST S2

* a = Welding seam thickness



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

General accessories

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FUSION 3: Long and slim.

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

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 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	inches (mm)	0.12 (3 mm)	0.16 (4 mm)	0.16 (4 mm)	0.2 (5 mm)
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 × W × H)	inches	26 × 4 × 7			
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" (3 - 4 mm), Euro plug
144.615 FUSION 3, 230 V / 3500 W, welding rod Ø 0.16 – 0.2" (4 - 5 mm), Euro plug
Included with purchase: FUSION 3, blank welding shoe, storage case

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	inches (mm)	0.12 (3 mm)	0.16 (4 mm)	0.16 (4 mm)	0.2 (5 mm)
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 × W × H)	inches	23 × 4 × 9			
Weight	lbs	15			
Conformity mark		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		II			

Article No.:
123.866 FUSION 3C, 230 V / 2800 W, welding rod Ø 0.12 – 0.16" (3 - 4 mm), Euro plug
144.826 FUSION 3C, 230 V / 2800 W, welding rod Ø 0.16 – 0.20" (4 - 5 mm), 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 1.8" x 1.2" x 2.1" blank welding shoe
	145.946 2.9" x 2.0" x 2.3" blank welding shoe
	145.896 1.0" (25 mm) overlap
	145.947 1.2" (30 mm) overlap
	145.897 1.4" (35 mm) overlap
	145.912 0.2 / 0.23" (5 / 6 mm) V-seam
	145.915 0.3 / 0.4" (8 / 10 mm) V-seam
	145.907 0.5" (12 mm) V-seam
	145.903 0.6" (15 mm) V-seam
	145.909 0.8" (20 mm) V-seam
	145.916 1.0" (25 mm) V-seam
	145.943 0.2" / 0.23" fillet weld (a = 0.16"*)
	145.944 0.3" / 0.4" fillet weld (a = 0.28"*)
	145.812 0.6" fillet weld (a = 0.4"*)
	145.940 0.8" fillet weld (a = 0.55"*)
	145.816 1" fillet weld (a = 0.7"*)
	146.643 Corner outside seam 0.3" (8 mm)
	146.645 Corner outside seam 0.4" (10 mm)
	146.649 Corner outside seam 0.5" (12 mm)
	146.651 Corner outside seam 0.6" (15 mm)
	145.811 Corner seam Ø 0.55" (14 mm)
	145.488 Corner seam Ø 0.8" (20 mm)
	148.817 45° angled adapter
	148.816 90° angled adapter
	149.421 Insulation sleeve / heat blanket FUSION 3
	149.420 Insulation sleeve / heat blanket FUSION 3C

* a = Welding seam thickness

The insulation sleeve, or heat blanket, protects the machine from heat loss, as well as protects the operator from direct contact with the extruder barrel!



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 18 inches, 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

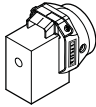






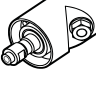
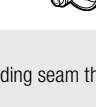
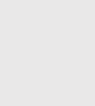
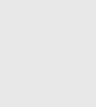
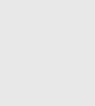
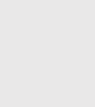





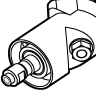
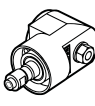
Voltage	V~	230 / 120
Power	W	2800
Material		PE / PP
Air temperature	°F	up to 640
Plastification temperature	°F	up to 570
Welding rod	Ø inches	0.16" (4 mm)
Output PE	lbs/hr	2.9 – 4.0
Size (L x W x H)	inches	18 x 4 x 10
Weight	lbs	13 (without power cord)
Conformity mark		CE
Approval mark		⑤
Certification 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" blank welding shoe
	145.946 2.9 x 2.0 x 2.3" blank welding shoe
	145.896 1.0" (25 mm) overlap
	145.947 1.2" (30 mm) overlap
	145.897 1.4" (35 mm) overlap
	145.912 0.2 / 0.23" (5 / 6 mm) V-seam
	145.915 0.3 / 0.4" (8 / 10 mm) V-seam
	145.907 0.5" (12 mm) V-seam
	145.903 0.6" (15 mm) V-seam
	145.943 0.2 / 0.23" fillet weld (a = 0.16"*)
	145.944 0.3 / 0.4" fillet weld (a = 0.27"*)
	145.812 0.6" fillet weld (a = 0.4"*)
	146.643 Corner outside seam 0.3" (8 mm)
	146.645 Corner outside seam 0.4" (10 mm)
	146.649 Corner outside seam 0.5" (12 mm)
	146.651 Corner outside seam 0.6" (15 mm)
	145.811 Corner seam Ø 0.55" (14 mm)
	145.488 Corner seam Ø 0.8" (20 mm)
	147.602 45° angled adapter
	147.601 90° angled adapter

* a = Welding seam thickness



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



The WELDPLAST S4 during outdoor use in Spain.

General accessories hand extruder

	131.451	Tool rest WELDPLAST S2 / S2 PVC / FUSION 2
	148.923	WELDPLAST S1
	118.804	WELDPLAST S4 / FUSION 3 / FUSION 3C
	136.231	Pre-heat reflector WELDPLAST S2 / S2 PVC / S4 / S6 FUSION 2 / 3 / 3C
	134.361	Air filter WELDPLAST S2 / S2 PVC (included with purchase)
	143.776	Textile dust filter WELDPLAST S2 / S2 PVC (not included with purchase)
	135.082	Air filter FUSION 2 / 3C
	153.009	Corner Press Tool
	152.676	Welding Gauge
	144.095	Welding rod de-reeler
		Storage case (included with purchase)
	116.367	WELDPLAST S6
	123.173	WELDPLAST S4 / FUSION 3
	119.540	WELDPLAST S2 / S2 PVC / S1 / FUSION 2 / 3C
	134.567	Heating element 230 V / 2600 W, WELDPLAST S6
	109.984	230 V / 2200 W, WELDPLAST S4 / S2 / S2 PVC
	113.268	230 V / 1100 + 1100 W, FUSION 3
	123.561	230 V / 1750 W, FUSION 2 / 3C
	149.265	230 V / 1000 W, WELDPLAST S1
	149.529	120 V / 1100 W, WELDPLAST S1
	149.530	100 V / 1050 W, WELDPLAST S1

PLASTFIX lends the weld seam the necessary holding pressure.





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
104.309	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" 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" 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" 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

	Profile A Dimensions in inches
	Profile B





Flooring / Interior Decoration

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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 7.5 meters per minute.



UNIFLOOR E, the reliable partner for welding floor coverings.

Hot-air welder

UNIFLOOR E / UNIFLOOR S

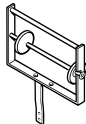
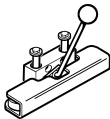
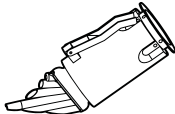


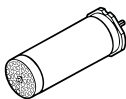


- Reproducible results thanks to permanent regulation of the NOMINAL and ACTUAL values
- Heater and drive electronically regulated
- Steplessly controlled air flow (only UNIFLOOR E)
- All floor coverings welded without reconfiguration
- Automatic start
- Integrated wall switch

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	17 x 11 x 9
Weight (without de-reeler)	lbs	25 (with 10 ft cord)
Conformity marking	CE	
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 squeezed nozzle, for PVC + PUR material
	103.394 Floor welding nozzle air-knife, optimized for PUR material
	115.216 3/3 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 groove 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)
Cutting speeds	rpm	Level 1: 14,500 (350 W) Level 2: 18,500 (700 W)
Groove depth adjustment	inch	0 – 0.16
Size (L × W × H)	inch	9 × 8 × 10
Weight	lbs	15 (with 10 ft cord)
Conformity marking		CE
Approval mark		③
Certification scheme		CCA
Protection class II		□

Accessories GROOVER

	102.401 Ø 4.33 × 0.14 inch, tungsten carbide-tipped blade, trapezium profile (standard blade installed in most Leister GROOVERs)
	102.402 Ø 4.33 × 0.16 inch, tungsten carbide-tipped blade, round profile
	102.404 Ø 4.33 × 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

GROOVY: Lightweight and handy.

The new “GROOVY” gouging tool is the lightweight, handy tool for the experienced layer of plastic floor coverings made of PVC or linoleum. Its ergonomic shape makes it possible to achieve the desired groove width and depth up to the connecting walls, defined and clean-cut, with little pressure.

Gouging tool GROOVY



- Lightweight and handy
- Groove preparation without milling
- Clean transition from machine-milled groove to the closure
- Ideal for surfaces that are small and difficult to access
- Precise working thanks to roller guide
- Groove gouging up to connecting walls
- Adjustable groove depth


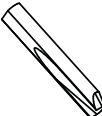
Technical Data

Groove wide	inches	0.14
Groove depth	inches	0.02 – 0.1
Size (L × W × H)	inches	7 × 2 × 4
Weight	lbs	0.64

Article number:

150.809 GROOVY gouging tool, 0.14" for elastic floor coverings

Accessories GROOVY

	151.394 Protective plug
	150.815 Blade

Ideal for surfaces that are small and difficult of access



Executing clean grooves up to connecting walls



Precise and simple guidance thanks to integrated guide rollers



Procedures for welding floor coverings



Step 1:
Milling the groove
with the GROOVER.



Step 2:
Inserting the welding rod into
the groove with the UNIFLOOR
E hot-air welder.

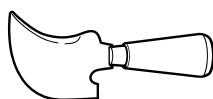


Step 3:
Remove the excess welding
rod with trimmer guide and
spatula

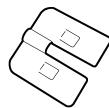


Step 4:
Leveling the protruding
welding rod with the spatula.

General accessories



106.969 Spatula



122.541 Trimming guide,
for use with spatula (106.969)



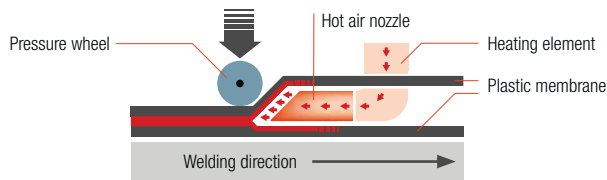
Leister. We know how.

Leister is a world leader in the industry and one of the pioneers in the fields of hot-air, hot-wedge and extrusion welding processes.

Leister Technologies AG manufactures high-quality welding machines for demanding work for all industries, in which plastic is processed.

Know-how

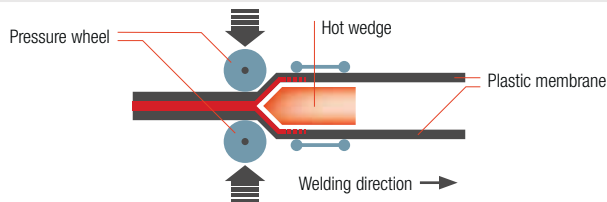
Welding Methods



Hot-air welding

Hand tools, automatic welders, stationary welding machines

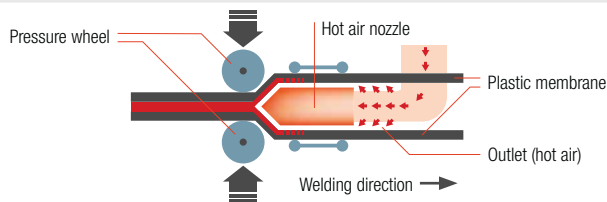
In hot gas welding, the thermal energy is controlled. Heated air is fed into the workpiece and the required amount of pressure is exerted onto the wheels.



Hot-wedge welding

Wedge welders

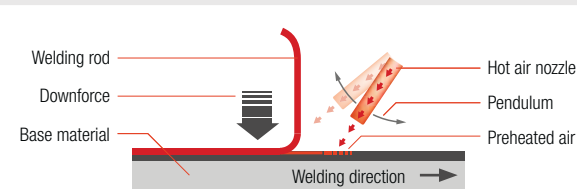
The process where the wedge is heated directly by heating cartridges. The generated heat is transferred directly onto the workpiece. This method also is suitable for thicker materials.



Combi-wedge welding

Combi-wedge welding machines

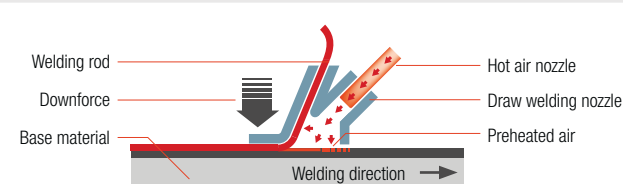
When Combi-wedge welding (combination of a heated wedge and hot air), preheating of the air and the actual welding process is carried out over a wedge. The preheated air also takes partial cleaning of the workpieces.



Pendulum Welding

Hand tools

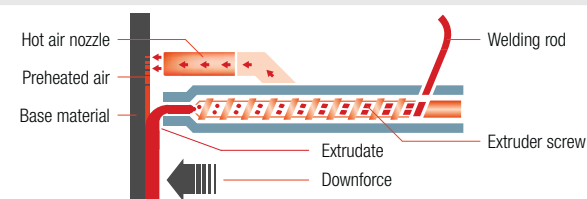
Pendulum welding requires a welding rod similar to the base material. Both surfaces are then heated using hot air. Using an up and down, pendulum-like motion and consistent downward pressure, the two are joined.



Draw Welding (Speed Welding)

Hand tools

This welding method requires the use of a speed welding nozzle. Preheat the surfaces to the appropriate temperature. The surfaces are plasticized by hot air and joined under consistent downward pressure.



Extrusion Welding

Extrusion Welders (FUSION & WELDPLAST)

In extrusion welding, the substrate is preheated with hot air and connected by adding the extrudate. The welding rod is fed into the heater barrel and the plast is processed by the extruder screw.









Plastic welding with Leister

In plastic welding, thermoplastic materials are joined through the combination of thermal energy, pressure and welding speed. Combined, these key factors are the main considerations in the welding of many types of applications including: roofing, civil engineering, tunneling, tents & tarps, signs & banners, floor coverings, vehicle repairs, plastic fabrication and many more.

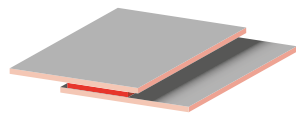
Know-how

Weld Types / Weld Geometries

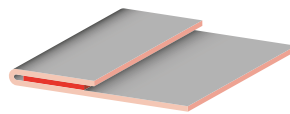
Welding without filler material

-  Special applications
-  Roofing
-  Technical Textiles
-  Civil Engineering / GEO
-  Plastic Fabrication
-  Flooring

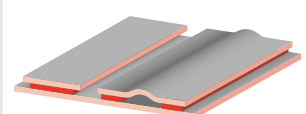
Overlap



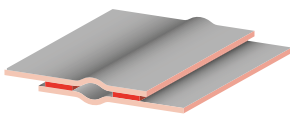
Hem



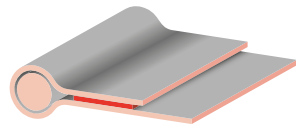
Tape



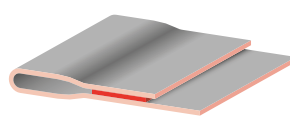
Double seam w/test channel



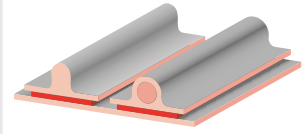
Keder / Piping



Pole pockets

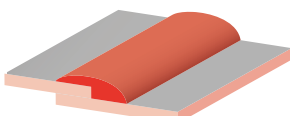


Antivandalism

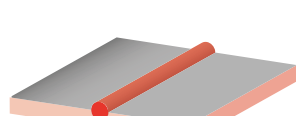


Welding with additional material

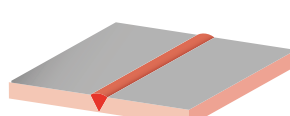
Overlap seam



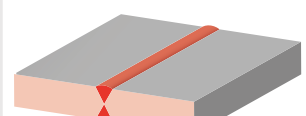
Floor seam



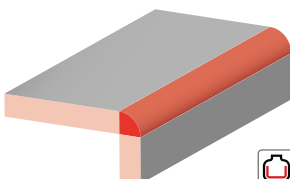
V-seam



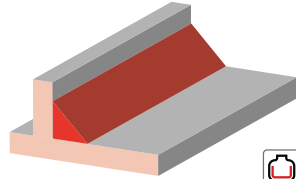
X-seam



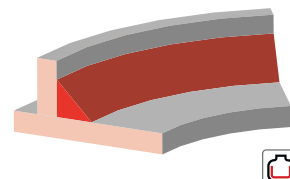
Outside corner seam



Fillet weld seam

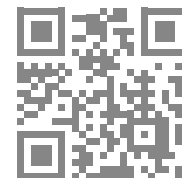


Corner seam



For more information, visit:
leister.com/knowhow





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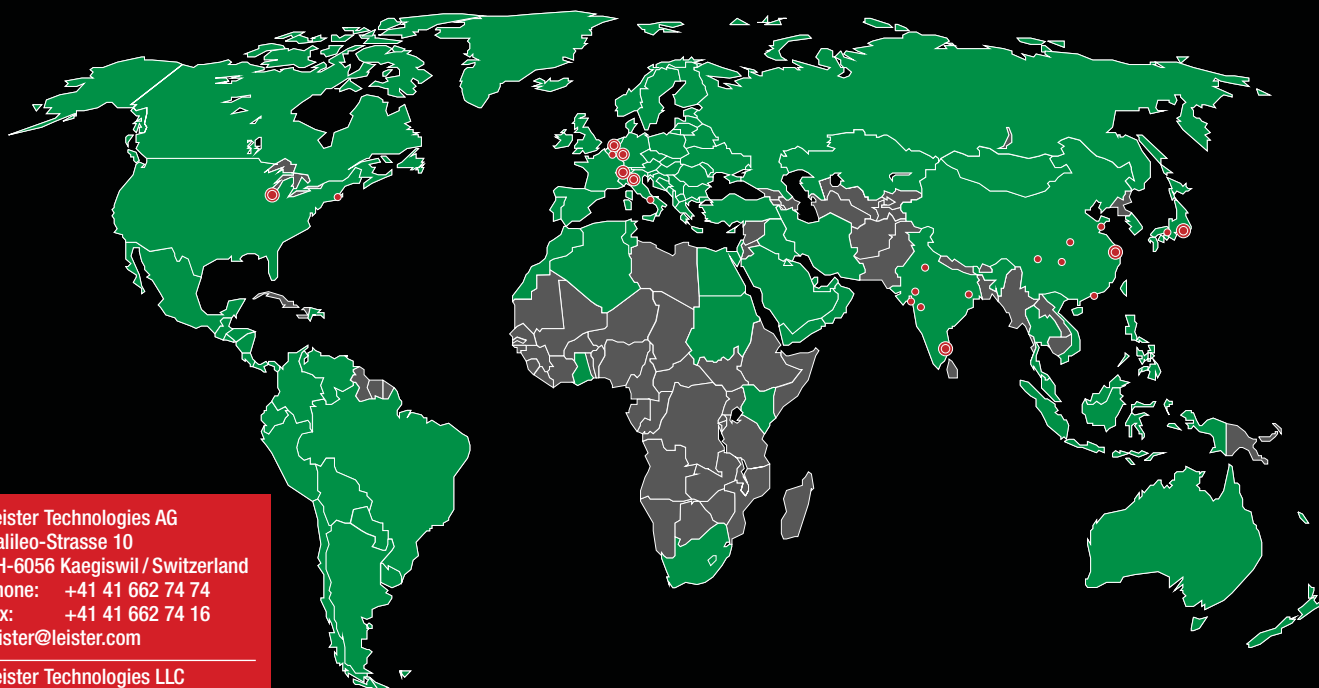
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Leister Technologies AG
 Galileo-Strasse 10
 CH-6056 Kaegiswil / Switzerland
 phone: +41 41 662 74 74
 fax: +41 41 662 74 16
 leister@leister.com

Leister Technologies LLC
 Itasca, IL 60143 / USA
 phone: +1 855 534 7837
 info@leisterusa.com

Leister Technologies Ltd.
 Shanghai 201 109 / PRC
 phone: +86 21 6442 2398
 leister@leister.cn

Leister Technologis KK
 Yokohama 222-0033 / Japan
 phone: +81 45 477 36 37
 info@leister.co.jp

Leister Technologies Benelux BV
 3991 CE Houten / Nederland
 phone: +31 (0)30 2199888
 info@leister.nl

Leister Technologies Italia srl
 20090 Segrate / Italia
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