



2015/16

General Catalog

Plastic Welding

The only choice for professionals

We know how.



Leister Technologies AG, Corporate Center, Kaegiswil, Switzerland



Leister Technologies AG, factory, Sarnen, Switzerland



Leister Technologies Ltd., Shanghai, China



Leister Technologies LLC, Itasca, USA



Leister Technologies GmbH,



Leister Technologies KK, Yokohama, Japan



Leister Technologies AG, factory, Kaegiswil, Switzerland



Leister Technologies Benelux BV,



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 Technologies S.r.I.,

Milan, Italy



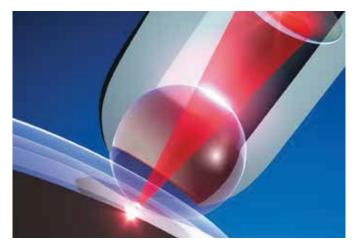


For decades now, Leister has been the worldwide market leader. The performance and reliability of our products makes Leister the first choice. Our tools are used in roofing, billboards, tarpaulins, civil engineering, tunneling, landfills, plastic fabrication, flooring, and shrinking to name a few.



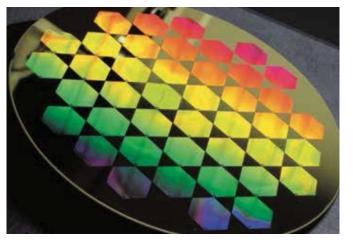


Hot-air is increasingly deployed in industrial processes. Typical applications include activating, heating, curing, melting, shrinking, welding, sterilizing, drying and warming to name a few. Leister customers profit from our extensive engineering knowledge and benefit from our recomendations during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





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.





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 knowhow is locally available to you at all times.









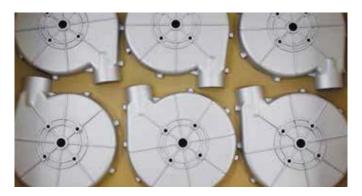




















GEOSTAR G5/G7

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Product overview Hot-air hand tools

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Туре	TRIAC ST	TRIAC AT	ELECTRON ST	HOT JET S	GHIBLI AW	GHIBLI	SONORA S1	HOTWIND	FORTE S3
Voltage V~	230	230	230	230	230 / 120	230	230	230	3 × 230 / 3 × 400
Max. power W	1600	1600	3400 / 3200	460	2300 / 1800	2000	2000	3700	10 000
Temperature °C	40 – 700	45 -620	40 – 650	20 - 600	65 – 620	20 – 600	80 - 650	20 - 650	20 - 650
Size mm (L \times \varnothing) Handle (\varnothing)	338 × 90 56	335 × 90 56	338 × 90 56	235 × 70 40	280 x 220 x 90 45	195×85×160 57	230 × 200	232 ×106 179	390 × 132 215
Weight kg (without cord)~	1.0	1.0	1.1	0.4	1.18	0.9	0.6	2.2	4.4
Integrated blower	✓	✓	✓	✓	✓	✓	✓	✓	✓
Digital display		✓			✓		✓		
Conformity mark	CE	CE	CE	CE	CE	CE	C€	CE	C€
Approval mark	S CULUS US	S CUL US		\$		(\$)	(\$)	(\$)	\$
Certification scheme		CCA		CCA		CCA	CCA	CCA	CCA
Protection class									
Applications									
Outdoor use	✓	✓	✓	✓	✓				✓
Indoor use	✓	✓	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark	✓
Roofing	✓	✓	✓	✓					
Billboards / Tarpaulins	✓	✓	✓	✓	✓	✓	✓		
Civil engineering / Tunneling / Landfills	✓	✓	✓	✓					
Plastic fabrication	✓	✓	✓	✓	✓	✓			
Flooring / Interior design	✓	✓	✓	✓	✓	✓	✓		
Shrinking	✓	✓	✓	✓	✓	✓	✓	✓	✓
Catalog page	12 – 15	13 – 15	16 / 17	18 / 19	20 / 21	22	23	24	25

Product overview Hot-air hand tools and Blower

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					A
Туре	WELDING PEN R / S	ROBUST	DIODE PID / S	MINOR	LABOR S
Voltage V~	230	3 × 230 / 3 × 400	230	230	230
Max. power W	1000	250	1600 / 2000	100	800/900
Temperature °C	20 – 600		20 - 600		20 – 600
Size mm (L \times \varnothing) Handle (\varnothing)	270 × 43 32	255 × 221	265 × 57 40	250 × 95 64	180 × 54 40
Weight kg (without cord)~	1.0	8.0	1.15	1.15	0.15
Integrated blower		✓		✓	
Digital display	√ (R)		✓ (PID)		
Conformity Mark	C€	C€	C€	C€	C€
Approval mark	\$		(\$)	(\$)	\$
Certification Scheme	CCA		CCA	CCA	CCA
Protection Class					
Applications					
Outdoor use					
Indoor use	✓	✓	\checkmark	\checkmark	✓
Roofing					
Billboards / Tarpaulins					
Civil engineering / Tunneling / Landfills					
Plastic fabrication	✓	✓	✓	\checkmark	✓
Flooring / Interior design					
Shrinking					
Catalog page	1 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 comfort, being reliable versatile and user friendly, like its predecessor the TRIAC S. A prominent feature here is the two-component handle, which is not only attractive, but also gives the user perfect grip. The low weight of less than 1 kg/2.18 lbs ensures a perfect weight balance.



TRIAC AT: Robust and intelligent.

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

Hot-air hand tool TRIAC ST



Hot-air hand tool TRIAC AT



- Suitable for the work site
- The sturdy, professional hot-air hand tool that weighs less than 1 kg/2.18 lbs
- Functional design: two-component handle grip and optimum center of gravity ensure good ergonomics
- Quick clean air filters
- Automatic carbon stop and heating element protection provide automatic protective measures
- · Suitable for the work site
- Closed loop controlled temperature
- Open loop controlled air volume
- Intelligent «e-Drive» operating unit
- Ergonomic handling
- Modern design

Technical data		
Voltage	V~	120 / 230
Power	W	1600 / 1600
Temperature	°C	40 – 700
Size $(L \times \emptyset)$	mm	338×90 , handle $\varnothing 56$
Weight	kg	<1 (without power cord)
Approval mark		\$
Conformity mark		C€
Protection class II		

Article No.:

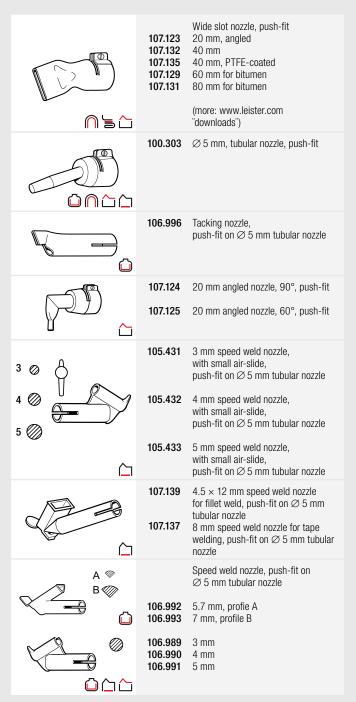
141.308	TRIAC ST, 120V / 1600W for push-fit nozzles with UK-plug
141.309	TRIAC ST, 230V / 1600W for push-fit nozzles with UK-plug
141.311	TRIAC ST, 230 V / 1600 W for push-fit nozzles with CH plug
141.227	TRIAC ST, 230 V / 1600 W for push-fit nozzles with Euro plug
144.013	TRIAC ST, 230 V / 1600 W for screw-on nozzles with Euro plug

Technical data		
Voltage	V~	120 / 230
Power	W	1600 / 1600
Temperature	°C	45 – 620
Size (L × Ø)	mm	335×90 , handle $\varnothing 56$
Weight	kg	1 (without 3 m cord)
Approval mark		\$
Conformity mark		C€
Protection class II		

Article No.:

141.319	TRIAC AT, 120V / 1600W, with UK-plug
141.320	TRIAC AT, 230V / 1600W, with UK-plug
141.314	TRIAC AT, 230 V / 1600 W, with Euro plug
141 322	TRIAC AT 230 V / 1600 W with CH plug

Accessories TRIAC ST / TRIAC AT





Overlap welding



Draw welding



Shrinking

	105.622	Ø 5 mm, tubular nozzle, screw-on
	106.988	Tacking nozzle, screw-on
	126.552	Ø 4 mm drawing nozzle, screw-on for fluor plastics
	113.666	Ø 3 mm drawing nozzle with tacking tip, screw-on
	113.399	Ø 4 mm drawing nozzle with tacking tip, screw-on
	113.876	Ø 3 mm drawing nozzle without tacking tip, screw-on
	113.874	Ø 4 mm drawing nozzle without tacking tip, screw-on
A 🕡	113.670	Drawing nozzle triangular-shaped With tacking tip, screw-on 5.7 mm
	113.877	Without tacking tip, screw-on 5.7 mm, profilee A
	106.986	Without tacking tip, screw-on 7 mm, profile B
	106.987	7 × 5.5 mm
	107.344	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 \varnothing 21 mm nozzle with plug



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



Mirror welding

General accessories ≥ 32/33 🛄



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.





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	°C	40 - 650)		
Size (L $\times \varnothing$)	mm	338×90), handle 🛭	Ø 56	
Weight	kg	1.1 witho	ut connect	ion cable	
Approval mark		(\$)			
Conformity mark		C€			
Protection class II					

Article No.

145.567	ELECTRON ST, 230 V / 3400 W for push-fit nozzles with Euro plug
149.673	ELECTRON ST, 230 V / 2300 W for push-fit nozzles with Euro plug *
145.564	ELECTRON ST, 200 V / 3000 W for push-fit nozzles with JP plug
145.563	ELECTRON ST, 120 V / 2400 W for push-fit nozzles with UK plug
145.568	ELECTRON ST, 230 V / 3400 W for push-fit nozzles with UK plug

* Please ask about availability

Accessories ELECTRON ST

107.258	Wide slot nozzle, push-fit 70×10 mm, for bitumen
107.653	Wide slot nozzle 75 × 2 mm, push-fit
151.068	Tool stand for 107.653
107.270	Wide slot nozzle 150 × 12 mm, push-fit
107.229	Round nozzle 20 mm
107.331	72 × 70 mm folding reflector, push-fit
107.328	60 × 75 mm folding reflector, push-fit
107.330	125 × 22 mm folding reflector, push-fit
107.327	85×85 mm sieve reflector, push-fit
107.333	150 × 110 mm sieve reflector, push-fit
106.127	Ø 65 mm sieve reflector push-fit
107.340	45×250 mm Shell reflector, push-fit
107.346	270 mm welding mirror, push-fit
142.281	Scraper nozzle
107.134	Tape welding nozzle 40 mm
145.604 145.606 145.605 149.675	Heating elements 120 V / 2300 W 230 V / 3300 W 200 V / 3300 W 230 V / 2200 W



HOT JET S: Small and powerful.

As the most compact hot-air hand tool from Leister, the HOT JET S' low weight of 600 grams (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**



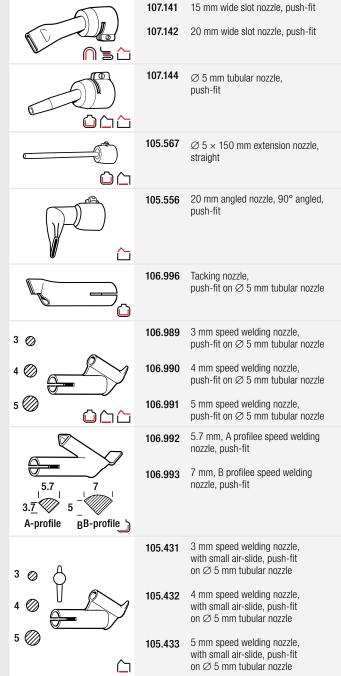
- The smallest Leister hot-air hand tool
- Stepless, electronically controlled temperature
- Stepless, electronically controlled air flow
- · Low noise
- Flexible, integrated tool stand

Technical data		
Voltage	V~	120 / 230
Power	W	460 / 460
Temperature	°C	20 - 600
Size $(L \times \emptyset)$	mm	235×70 , handle $\varnothing 40$
Weight		kg 0.4 (without 3 m cord)
Conformity mark		C€
Approval mark		c (ii) ws / (S)
Certification Scheme		CCA
Protection class II		

Article No.:

100.648 HOT JET S, 230 V / 460 W, with Euro plug HOT JET S, 120 V / 460 W, without plug 100.862 100.854 HOT JET S, 230 V / 460 W, with AUS plug

Accessories HOT JET S





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	8 mm speed welding nozzle for tape welding, push-fit on \varnothing 5 mm tubular nozzle
	107.139	4.5 × 12 mm speed welding nozzle for fillet weld, push-fit on Ø 5 mm tabular nozzle
	107.324	12×10 mm sieve reflector, push-fit on \varnothing 5 mm tubular nozzle
	107.146	\varnothing 2 mm soldering nozzle
	107.151	\varnothing 4 mm soldering nozzle
	107.148	\varnothing 3 \times 1.5 mm soldering nozzle, oval
	107.310	35×20 mm sieve reflector, push-fit
1000000	107.311	50×35 mm sieve reflector, push-fit
	107.312	25×30 mm spoon reflector, push-fit
	107.305	15×25 mm ironing nozzle
	143.831	Nozzle adapter for screw-on nozzles
	114.734	Ski repair nozzle without base plate
	100.818 103.607	230 V / 435 W heating element 120 V / 435 W heating element

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



General accessories 32/33



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



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

Technical data		
Voltage	V~	230 / 120
Frequency	Hz	50/60
Power	W	2300 / 1800
Temperature	°C	65 – 620°
Air volume	I/min	140 – 270
ø Nozzle holder	mm	36.5
Emission	dB(A)	67
Dimensions (L \times W \times H)	mm	$280 \times 220 \times 90$
ø Handle	mm	45
Weight	kg	1.18
Mark of conformity		C€
Approval mark		\$
Protection class II		

Article No.:

148.061	GHIBLI AW, 230 V / 2300 W, Euro plug
150.168	GHIBLI AW, 230 V / 2300 W, UK plug
150.169	GHIBLI AW, 230 V / 2300 W, CH plug
150.170	GHIBLI AW, 120 V / 1800 W, CEE plug
148 079	GHIBLLAW, 100 V / 1500 W. JP plug

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

Accessories for GHIBLI AW

	106.998	Wide slot nozzle 20 mm, push-fit
	106.999	Wide slot nozzle 40 mm, push-fit
	107.154	Tubular nozzle Ø 5 mm, push-fit
	107.006	Extension nozzle \varnothing 5 × 130 mm, straight
Q (77)	107.308	Sieve reflector $50 \times 35 \text{ mm}$
	107.309	Sieve reflector $35 \times 20 \text{ mm}$
	107.313	Spoon reflector 25×30 mm, with screw connector
	107.325	Solder reflector 17 \times 34 mm, push-fit
	107.319	Sieve reflector Ø 65 mm
	107.345	Welding mirror 135 mm, push-fit
	107.007	arnothing 37 mm Dehorning nozzle
	106.132	45×250 mm Shell reflector, push-fit
	145.582 145.580	Heating element, 230 V / 2200 W Heating element, 120 V / 1700 W





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 / 230
Power	W	1500 / 2000
Temperature	°C	20 - 600
Size $(L \times W \times H)$	mm	$195 \times 85 \times 160$, Handle \varnothing 57
Weight	kg	0.9 (without 3 m cord)
Conformity mark		C€
Approval mark		c (li) us / (\$
Certification Scheme		CCA
Protection class II		

Article No.:

GHIBLI 230 V / 2000 W with Euro plug 101.881 101.887 GHIBLI 120 V / 1500 W with US plug

Additional versions available upon request.

Accessories GHIBLI



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	230
Power	W	2000
Temperature	°C	80 – 650
Size	mm	230 × 200
Weight	kg	0.6 (without 2 m cord)
Conformity mark		C€
Approval mark		\$
Certification Scheme		CCA
Protection class II		

Article No.:

140.996 SONORA S1, 230 V / 2000 W, with Euro plug

Additional versions available upon request

Accessories SONORA S1

119.269	Glass protection nozzle
119.270	50 mm wide slot nozzle
119.314	Reducer nozzle (included with S1 purchase)
119.271	Reflector nozzle (included with S1 purchase)
119.316	5 mm tubular nozzle
119.315	20 mm wide slot nozzle
119.312	Solder sleeve reflector nozzle (included with S1 purchase)
107.324	12 \times 10 mm sieve reflector, push-fit on \varnothing 5 mm tubular nozzle
107.308	50×35 mm sieve reflector



General accessories ≥ 32/33 🛄



HOTWIND: The new dimension.

Weighing just 2.2 kg, the HOTWIND can be used either as an integrated or bench-top device. The high maximum temperature of 650 °C 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

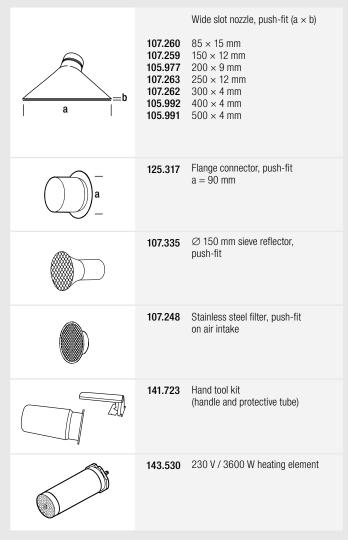
Technical data		
Voltage	V~	230
Power	W	3700
Max. Luftaustritts-Temperature	°C	650
Size $(L \times W \times H)$	mm	$332 \times 106 \times 179$
Weight	kg	2.2 (without 3 m cord)
Conformity mark		(€
Approval mark		\$
Certification Scheme		CCA
Protection class II		

Article No.:

142.609 HOTWIND PREMIUM, 230 V / 3700 W, with Euro plug 142.645 HOTWIND SYSTEM, 230 V / 3700 W, with Euro plug

Additional versions available upon request

Accessories HOTWIND PREMIUM / SYSTEM







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	°C	650	
Size $(L \times W \times H)$	mm	$390\times132\times215$	
Weight	kg	4.4 (without 10 m o	cord)
Conformity mark		C€	
Approval mark		\$	
Certification Scheme		CCA	
Protection class II			

Article No.:

102.027 FORTE S3, $3 \times 400 \text{ V} / 10 \text{ kW}$ with 16A CEE plug

Additional versions available upon request

WELDING PEN: Slim and flexible.

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



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~	230
Power	W	1000
Temperature	°C	20 – 600
Size (L × Ø)	mm	270×43 , handle $\varnothing 32$
Weight	kg	1.0 (with 3 m cord / air hose and
		Y-connection)
Conformity mark		CE
Approval mark		\$
Certification Scheme		CCA
Protection class II		

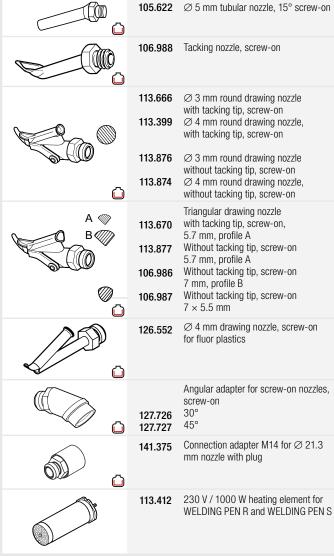
Article No.:

114.275 WELDING PEN S, 120 V / 600 W, with UK-plug

WELDING PEN R, 230 V / 1000 W, for screw-on nozzle, with Euro plug 114.380 113.081 WELDING PEN S, 230 V / 1000 W, for screw-on nozzle, with Euro plug

Additional versions available upon request

Accessories WELDING PENR / S



Swiveling air hose for easy working.



General accessories





ROBUST: The powerhouse.

Versatile and operable at high ambient temperatures of up to 60 °C. Despite its small size, the ROBUST is a real powerhouse. This blower can simultaneously supply air for up to three hot-air hand tools.



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

Blower ROBUST



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

Technical data			
Frequency	Hz	50	60
Power	W	250	250
Air volume (20 °C)	I/min	1200	1300
Static pressure	kPa	8.0	10.5
Max. ambient temperature	°C	60	60
Max. air inlet temperature	°C	60	60
Noise emission level	dB(A)	62	62
Environmental protection (IEC	60529)	IP 54	IP 54
Outside diameter air inlet	\emptyset mm	38	38
Outside diameter air outlet	\varnothing mm	38	38
Weight	kg	8.0	8.0
Conformity mark		CE	C€
Protection class I		(1)	
Article No.:			

50 Hz

60 Hz

Article No.:

Article No.:

103.434

Accessories ROBUST

107.354	Stainless steel filter, push-fit on air intake
107.281	Ø 38 mm hose connection adapter, 3 output each 14 mm
113.859	Ø 14 mm air hose
101.031	\varnothing 14 mm hose clip for air hose

Voltage V~

Without cord

3 m cord / Euro plug

1 × 120 | 1 × 230 | 3 × 230 / 400

103.432

 $3 \times 440 - 480$

103.429

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



Hand tool and blower DIODE PID / DIODE S with MINOR



- 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

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

• Ideal for assembly work

Technical data		
Voltage	V~	120 / 230
Power	W	1600
Temperature	°C	20 – 600
Size $(L \times \emptyset)$	mm	265×57 , handle $\varnothing 40$
Weight	kg	1.15 kg (with 3 m cord /
		3 m air hose)
Conformity mark		C€
Approval mark		€
Certification Scheme		CCA
Protection class II		

Article No.:

28

101.303	DIODE PID, 230 V / 1600 W, push-fit, with Euro plug
101.281	DIODE S, 230 V / 1600 W, push-fit, with Euro plug
101.304	DIODE PID, 230 V / 1600 W, screw-on, with Euro plug
101.282	DIODE S, 230 V / 1600 W, screw-on, with Euro plug
101.293	DIODE S, 120 V/1600 W for push-fit nozzles, with UK-plug

Additional versions available upon request

Technical data		
Voltage	V~	230
Power	W	1700
Temperature	°C	20 – 600
Size (L × Ø)	mm	265×57 , handle $\varnothing 40$
Weight	kg	2.5 kg (with 3 m cord /
		1.5 air hose)
Conformity mark		C€
Approval mark		\$
Certification Scheme		CCA
Protection class II		

Article No.:

108.880 DIODE PID with MINOR, 230 V / 1700 W, screw-on, 1.5 air hose, Euro-plug 101.441

DIODE S with MINOR, 230 V / 1700 W, push-fit, 1.5 air hose, Euro-plug

Additional versions available upon request

General accessories ≥ 32/33









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

MINOR: The mobile air supplier.

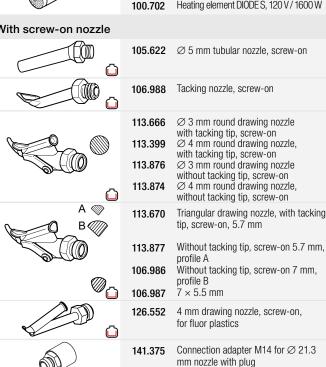
Don't be deceived by the MINOR's small size and low weight. This blower delivers sufficient air to enable quality work with the DIODE PID / DIODE S or LABOR S.

Accessories DIODE PID / DIODE S

With push-fit nozzle

	100.303	\varnothing 5 mm tubular nozzle, for versions with nozzles, push-fit
A ® B ®	106.992 106.993	Speed welding nozzle, push-fit on Ø 5 mm tubular nozzle 5.7 mm, profilee A 7 mm, profilee B
	106.989 106.990 106.991	3 mm 4 mm 5 mm
	106.996	Tacking nozzle, push-fit on \varnothing 5 mm tubular nozzle
	143.833	Nozzle adapter for screw-on nozzles
	100.296 100.650 100.689 100.702	Heating element DIODE PID, 230 V /1550 W Heating element DIODE PID, 120 V /1600 W Heating element DIODE S, 230 V / 1550 W Heating element DIODE S, 120 V / 1600 W

With screw-on nozzle



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~	230
Power	W	100
Air volume (20°C)	I/min	400
Pressure static	Pa	4000 (40 mbar)
Air outlet (external)	mm	14.5
Size $(L \times \emptyset)$	mm	250×95 , handle $\varnothing 64$
Weight	kg	1.15 (with 3 m cord)
Conformity mark		C€
Approval mark		\$
Certification Scheme		CCA
Protection class II		

Article No.:

108.747 MINOR, 230 V / 100 W, with Euro plug 109.988 MINOR, 120V / 100W, with UK 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



- 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~	230
Power	W	800 / 900
Temperature	°C	20 - 600
Size (L ר)	mm	180, handle \varnothing 40
Weight	kg	0.15 (without air hose and without cordl)
Conformity mark		C€
Approval mark		\$
Certification Scheme		CCA
Protection class II		

Article No.:

101.716 LABOR S with connection box, 230 V / 800 W

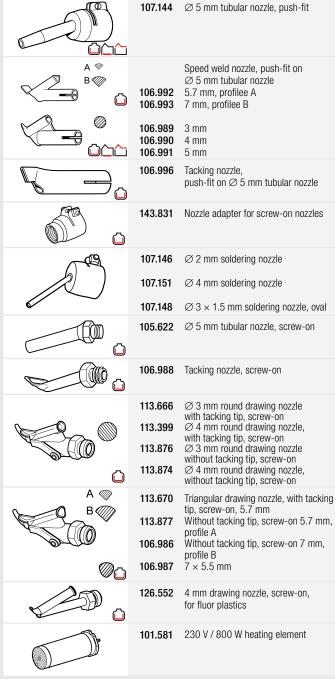
with Euro plug, air hose 3 m

101.754 LABOR with MINOR blower, 230 V / 900 W

with Euro plug, air hose 1.5 m

Additional versions available upon request

Accessories LABOR S



General accessories









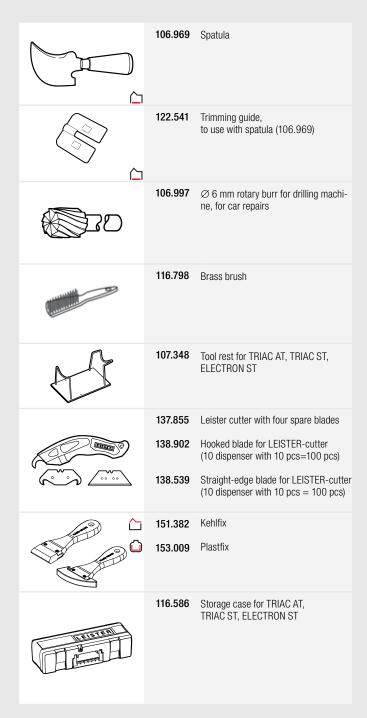


The new «Groovy» gouging tool is also perfectly suited for floor joints.

Hot-air hand tools

General accessories

	106.970	Brass pressure roller, for welding rods \varnothing 4 – 5 mm
	106.974	80 mm silicone pressure roller
	140.160	40 mm silicone pressure roller with
	140.599	ball bearings (silicone Spare roll for 140.160
	140.161	Pressure roller 28 mm, with ball
	140.598	bearings (silicone) Spare roll for 140.161
	106.976	28 mm pressure roller (PTFE)
	106.972	Brass pressure roller with ball bearings
	106.981	Pressure roller for custom seal
	138.314	Seam probe tester for overlap seams
	111.346 111.348	Chamfer plane with seven spare blades, for sealing sheets Spare blades kit containing ten blades
	106.966 106.968	Hand grooving tool Spare blades for hand grooving tool
	151.188	Chamfer plane for T-joins on
	150.809	Hand splice tool «Groovy» for flooring applications
المسلسلين والمسلم	152.676	Weld seam template







Welding rods

Article		packaging units (kg)
Welding ro	ods PE	
104.283	Welding rod HDPE, profile A, black	3
104.294	Welding rod HDPE, profile A, white	3
104.284	Welding rod HDPE, profile B, black	5
104.299	Welding rod HDPE, profile B, white	5
106.650	Welding band HDPE, 8x 2 mm, white	1
104.300	Welding rod LDPE, profile A, black	3
Welding ro	ods PP	
104.287	Welding rod PP, profile A, grey / beige	3
104.301	Welding rod PP, profile A, black	3
104.288	Welding rod PP, profile B, grey / beige	5
126.356	Welding band PP, 8x 2 mm, natural	2
Welding ro	ods PVC	
104.296	Welding rod PVC-U (hard), profile A, transparent	3
104.278	Welding rod PVC-U (hard), profile A, grey	3
106.641	Welding rod PVC-U, profile A, brown	3
104.280	Welding rod PVC-U (hard), profile B, brown	5
104.279	Welding rod PVC-U (hard), profile B, grey	5
104.302	Welding rod PVC-P (soft), profile A, transparent	3
Welding ro	ods ABS	
104.295	Welding rod ABS, profile A, white	3
113.587	Welding rod ABS, profile A, black	3
107.027	ABS welding band, 8x 2 mm, white	1

Article		packaging units (kg)
Welding ro	ds div.	
104.297	Welding rod PA, profile A, black	3
104.298	Welding rod PC, profile A, transparent	3
104.313	Welding rod PC / ABS / ALPHA (Honda), profile A, black	3
104.309	Welding rod PS, profile A, white	3
104.308	Welding rod PUR, profile A, black	3
106.654	Welding band Xenoy, 8x 2 mm, grey	2
106.642	Welding rod PPs, profile A, grey, flame resistant	3
104.304	Welding rod PVDF, profile A, natural	3
104.303	Welding rod POM, profile A, natural	3
Test bundl	es	
107.036	Test bundle (bodywork) welding rods, each consisting of profile A pieces of 37 mm single marked $6\times$ HDPE, $6\times$ PP, $6\times$ PA, $6\times$ PC, $6\times$ ABS, $6\times$ PCABS / APLHA Honda $6\times$ PC / PBTP / Xenoy	ι,
107.037	Test bundles (standard) each consisting of profile A pieces of 37 mm 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	
107.040	Test bundle (welding band) each consisting of profile A pieces of 37 mm single marked 9× HDPE, 8× 2 mm white, 9× PP, 8× 2 mm natural, 9× ABS, 8× 2 mm white, 9× PC / PBTP / Xenoy grey	

Profile sizes



Profile A Diameters in mm

Profile B







Roofing

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UNIROOF E 40 mm	37
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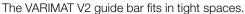


Hot Air Tools for Roofing

TRIAC ST	12 – 15
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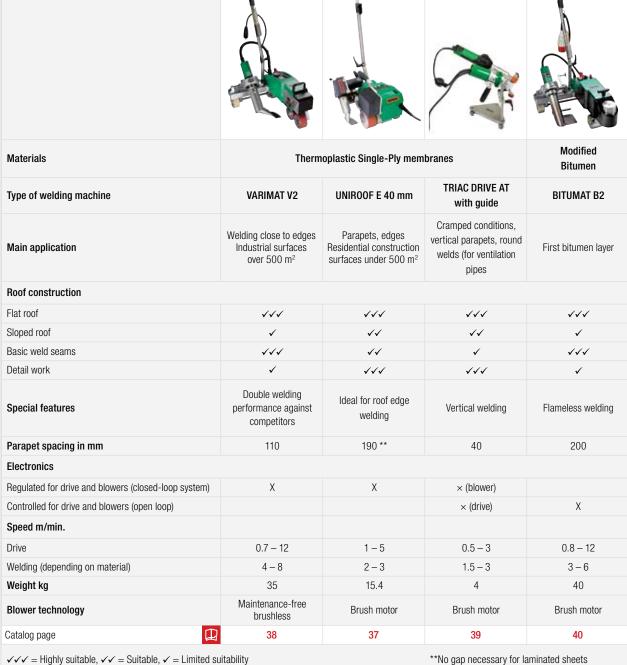






Flameless welding of modified bitumen with the BITUMAT.

Overview Roofing Welders









UNIROOF E 40 mm

Leister's UNIROOF E 40 mm, the automatic roof welding machine of the new, powerful compact class, makes it convenient and easy to work with single-ply membranes. The new 40 mm 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



- Controlled technology with display guarantees a constant and reliable weld for a leakproof roof
- 100% swiss made quality
- Powder-coated, rust-free stainless steel housing and rustproof components
- Lightweight and compact

Technical Data		
Amperage	A	13
Voltage	V~	230
Power	W	2900
Frequency	Hz	50 / 60
Temperature	°C	80 - 600
Speed	m / min	1 – 5
Welding seam width	mm	40
Size $(L \times W \times H)$	mm	$420\times280\times210$
Weight		
(incl. cable and additional weights)	kg	15.4
Weldable materials PVC, TPO, ECB, EP	DM, CSPE	
Protection class I		(1)
Approval marks		C €, CCA

Article No.:

147.828 UNIROOF E 40 mm, 230 V with Euro-plug 152.947 UNIROOF E 40 mm, 120 V with US plug

Included in scope of supply: Handle, with guide bar, 2 additional weights, storage case, operating instructions and DVD

Accessories UNIROOF E 40 mm

	148.731	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)
A STATE OF THE STA	147.836	Guide-bar, complete, adjustable
	103.605	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

Hot-air welder

VARIMAT V2



- 12 m/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	400
Power	W	4600	5700
Temperature	°C	100 - 620	
Speed	m/min	0.7 - 12	
Air flow range	%	50 – 100	
Width of welding nozzle	mm	40	
Size $(L \times W \times H)$	mm	$640 \times 430 \times$	330
Weight	kg	35	
Conformity mark		C€	
Approval mark		\$	
Certification scheme		CCA	
Protection class I		(

Article No.:

VARIMAT V2, 230 V / 4600 W, Euro plug, storage case 138.108 137.821 VARIMAT V2, 400 V / 5700 W, 16 A CEE-plug, storage case 141.572 VARIMAT V2, 230 V / 4600W, with 80 mm nozzle for bitumen,

Euro plug, device case

Additional versions available upon request.

Accessories VARIMAT V2

	113.995 113.600	Grip-nozzle 30 mm for TPO / FPO single plies Grip-nozzle 40 mm for TPO / FPO single plies
	110.805	20 mm overlap welding nozzle for thermoplastic sealing sheeting
	107.067	Additional weight for even more pressure
LEISTER	139.048	Sturdy storage case 720 × 470 × 450 mm plywood, green included with purchase
	107.649	Replacement rolls 2 welding plates for optimum
		welding start included with purchase
3	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
	107.613	400 V / 5500 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, inside nozzle or outside nozzle, the unit is suitable for all roofing applications and other areas of use

Voltage		V~	230
Power		W	1700
Temperatur	e	°C	40 - 650
Speed		m/min	0.5 - 3
Size (L × V	$V \times H$)	mm	$300 \times 230 \times 380$
Weight (with	h 3 m cable)	kg	4.1
Conformity	mark		CE
Protection of	class II		
Article No.	:		
117.331 TRIAC DRIVE AT 230 V / 1700 W, without guide,			
	nozzle inside, 30 mm, without grip, Euro plug		
117.332 TRIAC DRIVE AT 230 V / 1700 W, with guide,			
nozzle inside, 30 mm, without grip, Euro plug			
117.333 TRIAC DRIVE AT 230 V / 1700 W, with guide nozzle inside,			
30 mm, without grip, Euro plug, with extension for parapet welding			
148.605 TRIAC DRIVE AT, 230V / 1700 W, without guide, inside nozzle			
38 mm, without grip, pressure roller steel, Euro plug			
148.606 TRIAC DRIVE AT, 230 V / 1700 W, without guide, inside nozzle			
12 mm, with grip, pressure roller steel, Euro plug			

Accessories TRIAC DRIVE AT

	115.274 115.176 115.712 115.857 115.921	12 mm pressure roller, steel 30 mm pressure roller, steel 40 mm pressure roller, steel 30 mm pressure roller, silicone 40 mm pressure roller, silicone
6 6	115.276 107.552	Single supporting carrier, brass Single supporting carrier, silicone
	115.283 115.279 115.281 115.699 115.701 115.703	Overlap welding nozzle, inside, push-fit 12 mm, with grip 30 mm, with grip 38 mm, with grip 12 mm, without grip 30 mm, without grip 38 mm, without grip
	115.285 115.278 115.280 115.700 115.702	Overlap welding nozzle, outside, push-fit 12 mm, with grip 30 mm, with grip 38 mm, with grip 30 mm, without grip 38 mm, without grip
	138.549	Guide for TRIAC DRIVE AT, for easy horizontal welding, e.g. for parapets 115.700 Overlap welding nozzle 30 mm, outside, push-fit, without grip (included with purchase)
	142.422	Guiding help with extension for parapet
1	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

Technical Data

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	400
Power	W	6700	6700
Temperature	°C	20 - 650	
Speed	m/min	0.8 - 12	
Air flow range	%	85 - 100	
Welding nozzle width	mm	75 / 100	
Size $(L \times W \times H)$	mm	690 × 490 ×	330
Weight	kg	40 (with cable	e)
Conformity mark		CE	
Approval mark		\$	
Certification scheme		CCA	
Protection class I			

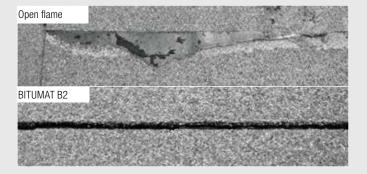
Article No.:

140.438 BITUMAT B2 400 V / 6700 W, 75 mm, 16 A-CEE-plug
140.437 BITUMAT B2 400 V / 6700 W, 100 mm, 16 A-CEE-plug
140.436 BITUMAT B2 230 V / 6700 W, 75 mm, 32 A-CEE-plug
138.386 BITUMAT B2 230 V / 6700 W, 100 mm, 32 A-CEE-plug
Additional versions available upon request.

Accessories BITUMAT B2

	138.048	75 mm bitumen nozzle
	138.047	100 mm bitumen nozzle
	137.895 137.896 140.229 140.228	100 mm pressure roller with gap 75 mm pressure roller with gap 100 mm pressure roller without gap 75 mm pressure roller without gap
	140.476	Lifting device
LEISTER	140.489	Sturdy storage case, $750 \times 555 \times 450$ mm (included with purchase)
	126.594	Heating elements 400 V / 6500 W
	126.386	230 V / 6500 W

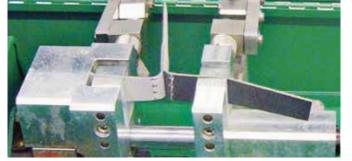
Considerably better welding results when compared with open flame tools. No damage to insulating material due to integrated air dam.





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.

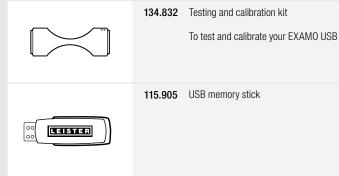
Testing instrument

EXAMO USB



- Handy, robust and reliable
- Testing of elongation, peak force, tear force, test speed and position
- · Construction-site approved

Accessory EXAMO USB



	300F	600F
V~	230	230
W	200	200
N	4000	4000
mm	5 – 300	5 – 600
mm	300	600
mm/min	10 - 300	10 - 300
mm	max. 7	max. 7
mm	max. 40 (60 optional)	max. 40 (60 optional)
mm	$750 \times 270 \times 190$ (storage case)	$1050 \times 270 \times 190$ (storage case)
kg	14	17.5
	C€	C€
	\$	\$
	(1)	
	W N mm mm/min mm/min mm	V~ 230 W 200 N 4000 mm 5 − 300 mm 300 mm/min 10 − 300 mm max. 7 mm max. 40 (60 optional) mm 750 × 270 × 190 (storage case) kg 14 C €

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



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





Technical Textiles & Industrial Fabrics

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Hot-Air Hand Tools

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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 °C	35 – 700
Speed m/min	0.25 – 22
Welding width mm	8 - 64
Size (L \times W \times H) cm	$170 \times 80 \times 170$
Weight kg	330
Welding options	
Overlap welding	✓
Hem welding	✓
Piping welding	\checkmark
Tape welding	\checkmark
Prayer weld	\checkmark
Hem pipe	\checkmark
Butt joint with tape	\checkmark
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

	4	and the same of th	191			11
			P.		-	-
Device type	VARIANT T1 Overlap	VARIANT T1 TAPE 50 mm	VARIANT T1 TAPE 25 mm	UNIPLAN E / S	TAPEMAT 50 mm	TAPEMAT SPRIEGEL 100 / 125 mm
Max. voltage V~	230 / 400	230 / 400	230 / 400	230	3 × 400	3 × 400
Max. power W	3680 / 5700	3680 / 5700	3680 / 5700	2300	10 000	10 000
Temperature °C	100 – 620	100 – 620	100 – 620	80 – 620	100 – 650	100 – 650
Speed m/min	1.5 – 18	1.5 – 18	1.5 – 18	1.0 - 7.5	4.0 – 20	4.0 – 20
Welding width mm	20 / 40	50	25	20 / 30	50	2 × 20
Size (L \times W \times H) mm	500 × 400 × 195	700 × 415 × 85	700 × 415 × 85	420 × 270 × 210	555 × 435 × 370	555 × 435 × 370
Weight kg	22.5	28.0	28.0	11.5	35.0	40.0
Conformity mark	C€	C€	C€	C€	C€	C€
Certification scheme	CCA	CCA	CCA	CCA	CCA	CCA
Protection class	Ţ	丰	<u></u>	<u></u>	<u></u>	Ť
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	✓	✓	✓	✓		
	49 / 50	49 / 51	51	52	53	53

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.





Easy, economical and safe welding.

Welding machine

SEAMTEK 36

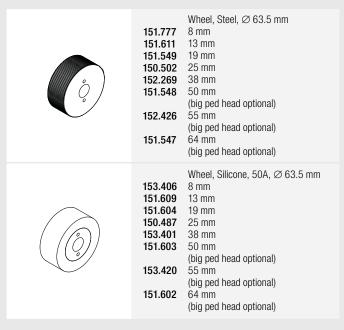


- Suitable for seam or tape welding
- For different weld types like overlap, butt joints, any hem pipe, tape and prayer welds
- Test program to optimize weld parameters
- Easy access to welding process
- Quickly changeable accessories for many applications
- Easy operation multilingual touch-screen with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

Technical data		
Voltage	V~	230 / 240
Power	W	3500 with small pump
		3900 with big pump
Temperature	°C	35 – 700
Speed	m/min	0.25 – 22
Dimensions (L \times W \times H)	cm	$170 \times 80 \times 170$
Weight	kg	330
Regulated weld pressure	bar	1 – 6.2
Maintained air pressure	bar	6.2
Welding seam width	mm	8 – 64

Article No.:

Afticle No.:	
151.162	SEAMTEK Base version with pedestal, 2 steel pressure rollers 25 mm,
	standard nozzle 25 mm
150.887	Quick arm
150.774	Side arm
151.161	Tape Delivery System (TDS)
124.200	Transport Box



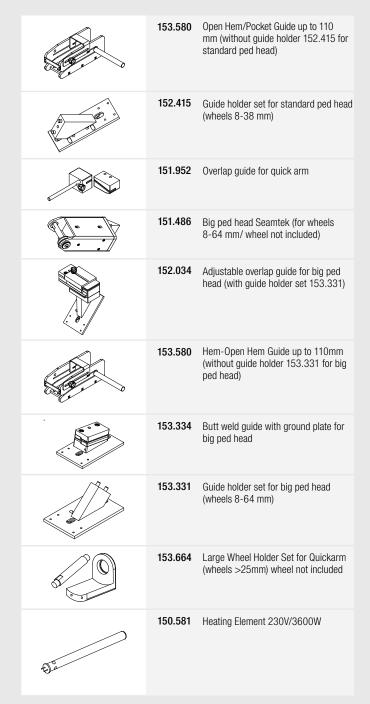
Additional versions available upon request



Example: Clothes



	152.175 152.183 151.598 151.601 151.597 151.608 151.599 151.850	SEAMTEK Nozzle 8 mm (Low Flow) 13 mm (Low Flow) 13 mm 19 mm 25 mm 38 mm 50 mm (big air pump/big ped head optional) 55 mm (big air pump/big ped head optional) 64 mm (big air pump/big ped head optional)
	152.941	Closing nozzle with angle
	152.956	Hem nozzle
	153.730	Taping Nozzle 25 mm
	152.931	Adjustable taping nozzle 50 mm
	150.791	Standard ped head
. 6.	151.723	Adjustable overlap guide, 5-40 mm (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)



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 TAPE



User-friendly:

Clear display plus "e-Drive" and storable welding parameters.



Highly flexible:

Conversion kits make it possible to work with different types of tape: 50 mm reinforcement and 25 mm anti-vandalism tapes (see image).



Feeding to perfection:

The new guide rollers make it easy to position the material and keep it taut right up to the final centimeter.



Dual-action:

The pressure roller can easily be converted from a 50 mm width to a 25 mm one (anti-vandalism tape) or vice versa.



Optional

The laser guide keeps the VARIANT T1 TAPE firmly on course.

VARIANT T1

3



Economical:

Up to 18 m/min welding speed and powerful, maintenance-free hot air blower.



Reliable:

Constant, wrinkle-free welds thanks to process-optimised nozzle.



Hem- / piping welding kit:

Welding hems, hem pockets and piping in short time with easy-to-use accessories.



VARIANT T1: Compact, fast and reliable.

This tool's top welding speed of up to 18 m/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 18 m/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

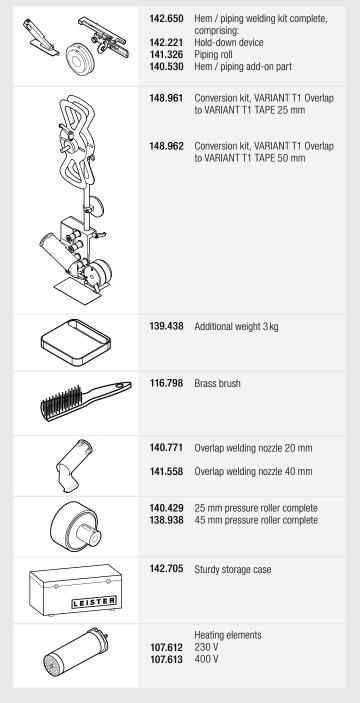
Technical Data		
Voltage	V~	230 / 400 (2LNPE)
Power	W	3680 / 5700
Temperature	°C	100 – 620
Speed	m/min	1.5 – 18
Air flow range	%	40 – 100
Welding seam width	mm	20 or 40
Size $(L \times W \times H)$	mm	$500 \times 400 \times 195$
Weight	kg	22 (without 1.5 m cord)
Conformity mark		(€
Protection class I		

Article No.:

711 11010 11011	
141.891	VARIANT T1, 230 V / 3680 W, 40 mm nozzle, with Euro plug
141.892	VARIANT T1, 230 V / 3680 W, 20 mm nozzle, with Euro plug
141.893	VARIANT T1, 400 V / 5700 W, 40 mm nozzle, with CEE plug (3LNPE)
141.894	VARIANT T1, 400 V / 5700 W, 20 mm nozzle, with CEE plug (3LNPE)

Additional versions available upon request.

Accessories VARIANT T1 Overlap







An economical, ergonomic tool for welding reinforcement tapes.

Tape hot-air welder

VARIANT T1 TAPE



- Fastest, most precise automatic tape welding tool (up to 18 m/min)
- "e-Drive" operating unit
- Easy to use
- Taut tape guidance
- Kits for converting VARIANT T1 Overlap to 25 or 50 mm TAPE

V~	230	400
W	3680	5700
°C	100 - 620)
%	50 – 100	
m/min	1.5 - 18	
mm	50 or 25	
mm	700×415	5×85
kg	28 (with 1	.5 m cord)
	C€	
	\$	
	CCA	
		
	W °C % m/min mm	W 3680 °C 100 − 620 % 50 − 100 m/min 1.5 − 18 mm 50 or 25 mm 700 × 415 kg 28 (with 1 C€ ⑤

Article No.:

148.963	VARIANT T1 TAPE 25	mm, 230 V / 3680 W, with Euro plug		
148.964	VARIANT T1 TAPE 50	mm, 230 V / 3680 W, with Euro plug		
148.965	VARIANT T1 TAPE 25	mm, 400 V / 5700 W, with Euro plug		
148.966	VARIANT T1 TAPE 50	mm, 400 V / 5700 W, with Euro plug		
Additional versions available upon request.				

Accessories VARIANT T1 TAPE



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~	230
Power	W	2300
Temperature	°C	20 – 620
Speed	m/min	1.0 - 7.5
Air flow range	%	50 – 100
		(for UNIPLAN E steplessly)
Welding seam width	mm	20 or 30
Size $(L \times W \times H)$	mm	$420 \times 270 \times 210$
Weight	kg	11.5 (with 3 m cord)
Conformity mark		C€
Certification scheme		CCA
Protection class I		

Article No.:

 114.221
 UNIPLAN E 20 mm, 230V / 2300 W, with Euro plug

 114.318
 UNIPLAN E 30 mm, 230V / 2300 W, with Euro plug

 115.049
 UNIPLAN S 20 mm, 230V / 2300 W, with Euro plug

 115.050
 UNIPLAN S 30 mm, 230V / 2300 W, with Euro plug

 Additional versions available upon request.

Accessories UNIPLAN E / UNIPLAN S



TAPEMAT: The power pack.

For rapid, economical strip welding of truck covers and industrial curtains. Very fast strip welder at up to 20 meters 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

		ag opooa.
_	Droope	antimized n

Technical Data TAPEMAT TAPEMAT SPRIEGEL ٧~ Voltage 3×400 3×400 Power kW ~ 650 ~ 650 Temperature 4 - 204 - 20 Speed m/min Welding seam width 50 100 / 125 mm $555 \times 435 \times 370$ 555 x 435 x 370 Size $(L \times W \times H)$ mm Weight 35 40 (€ Conformity mark CE Approval mark (\$) (\$) Certification scheme CCA CCA Protection class I 4 4

Article No.:

129.757	TAPEMAT 50 mm, 400 V / 10 kW, with 16A CEE plug
138.229	TAPEMAT Spriegel 100 mm, 400 V / 10 kW, with 16A CEE plug
133.597	TAPEMAT Spriegel 125 mm, 400 V / 10 kW, with 16A CEE plug

Spriegel hot-air welder

TAPEMAT SPRIEGEL



- 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 SPRIEGEL

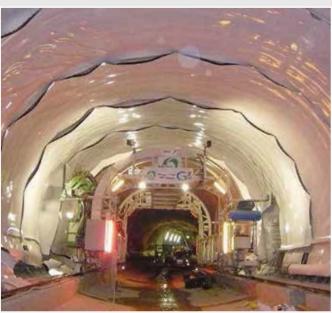
138.242	Lifting device
131.690	TAPEMAT 50 mm welding nozzle
137.412	TAPEMAT SPRIEGEL 100 mm welding nozzle, complete weld seam 20 mm left and right
135.392	125 mm welding nozzle, complete weld seam 20 mm left and right
101.991	$3 \times 400 \text{ V} / 3 \times 3300 \text{ W}$ heating element





Civil Engineering / Tunneling / Landfills

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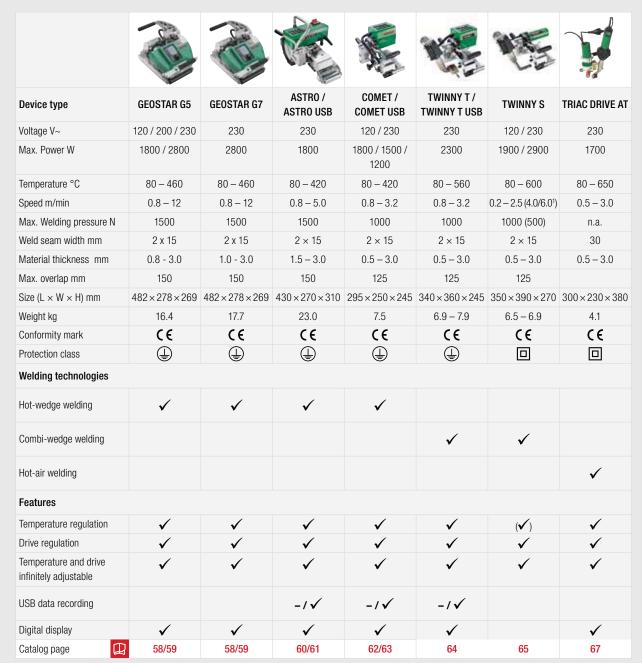


Hot Air Tools

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Product overview wedge welders for Civil Engineering / Tunnelling / Landfills



¹For details, see page 67





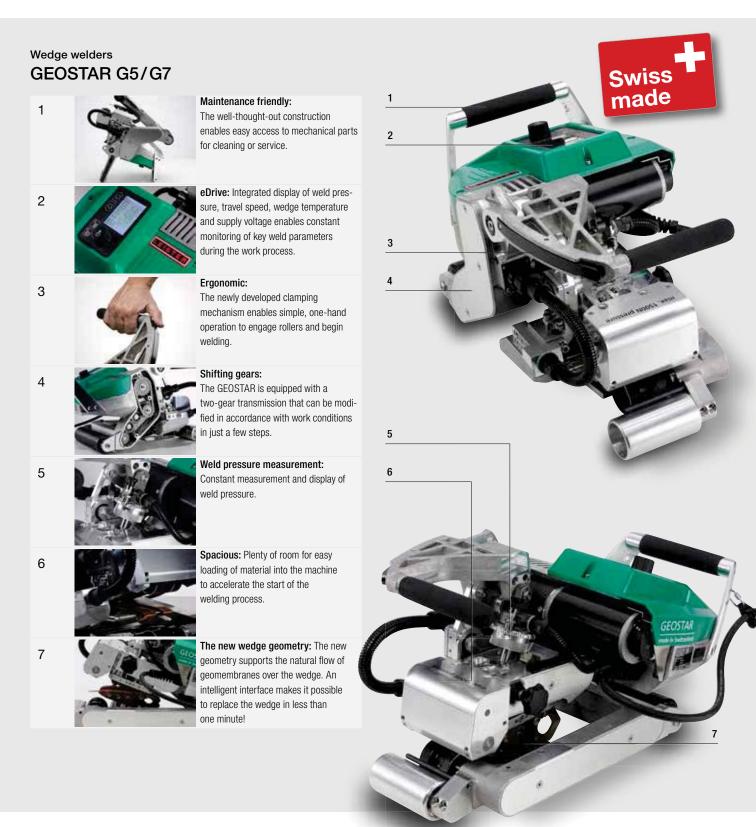
Product overview - manual extrusion welders

					7
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 mm	Ø4-Ø5	Ø 3 – 4 / Ø 4 – 5	Ø 3 – Ø 4	Ø3-4/ Ø4-5	Ø 3 –4 / Ø 4 – 5
Output kg/hr	3.9 - 6.0	1.5 – 4.0	0.5 - 2.3	1.8 – 3.6	1.8 – 3.6
Size (L \times W \times H) mm	821 × 116 × 240	560 × 110 × 300	450 × 98 × 260	670 × 90 × 180	588 × 98 × 225
Weight kg	14.0	8.7	5.8	7.2	6.9
Conformity mark	C€	C€	CE	CE	C€
Protection class II					
Features					
Maintenance-free blower	✓	✓	✓		
Multifunction display	✓	✓	✓		
Adjustable grip	✓	✓	\checkmark	✓	✓
Catalog page	68	69	70	71/72	71/72

² WELDPLAST S2 TPO variant

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



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 240 m without difficulty in a single pass during a field test (South Africa)..

Wedge welders

GEOSTAR G5/G7

- Welding speed up to 12 m/min
- At 16.4 kg (G5) and 17.7 kg (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	°C	460°		460°
Welding wedge	mm	90×50		130×50
Max. overlap	mm	150		150
Max. welding force	N	1500		1500
Weld width with test channel	mm	$2 \times 15 \text{ mm}$	ı	$2 \times 15 \text{ mm}$
Drive speed*1	m/min	0.8 - 12		0.8-12
		Level 1: 0.8	8-6	Level 1: 0.8-7
		Level 2: 1.	5-12	Level 2: 1.5-12
Dimensions (L \times W \times H)	mm	482 × 278	3 × 269	$482\times278\times269$
Weight	kg	16.4		17.7
Materials		HD-PE 0.8	- 3.0 mm,	HD-PE 1.0-3.0 mm
		PP, LD-PE,	TPO, FPO	PP, LD-PE,TPO, FPO
		PVC-P*2, C	SPE*2, EIA*	2
		additional i	materials up	on request
Mark of conformity		CE		
Protection Class I		(

^{*1:} Conversion of gear 1-2 using position change of sprocket wheels

Scope of delivery: Automatic welder, transport box, 3 pcs. hexagon socket wrenches, cleaning brush, Operating Instructions

Article No.

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

Accessories GEOSTAR G5/G7

148.489	Wedge Kit GEOSTAR G7, 130 x 50 mm, 230V/2500W, copper wedge with test channel
151.684 153.557	Wedge Kit GEOSTAR G5, 90 x 50 mm, 230V/2500W, copper wedge with test channel stainless steel wedge with test channel Wedge-Kit GEOSTAR G5,
149.174 153.560	90 x 50 mm 120V/1600W, copper wedge with test channel stainless steel wedge with test channel Other wedges on request
153.361	Drive roll D50 mm x 50 (75) mm; Traction Step, Steel, pointed knurled, with test channel
	Drive roll D50 mm x 50 mm;
153.338	Steel, sharp edge knurled, with test channel
153.359	Steel, blunt edge knurled, with test channel
	Other rollers on request
151.847	Brass brush



^{*2:} Requires steel wedge

ASTRO / ASTRO USB: The thoroughbred.

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

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



Graphical evaluation of a weld seam (length 170 m).

(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 mains voltage
- Stepless adjustment of welding pressure
- Closed-loop control of temperature and drive

Wedge welder

ASTRO USB



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

Technical Data		
Voltage	V~	230
Power	W	1800
Temperature	°C	80 – 420
Max. overlap	mm	150
Speed	m/min	0.8 - 5.0
Welding pressure	N	100 – 1500
Weld seam width	mm	2 × 15
Material thickness	mm	1.5 - 3.0
Size $(L \times W \times H)$	mm	$430\times270\times310$
Weight	kg	23.0
Conformity mark		C€
Protection class I		(1)

Article No.:

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

Included with purchase: Welder, manual, storage case

Technical Data		
Voltage	V~	230
Power	W	1800
Temperature	°C	80 - 420
Max. overlap	mm	150
Speed	m/min	0.8 - 5.0
Welding pressure	N	100 – 1500
Weld seam width	mm	2 × 15
Material thickness	mm	1.5 - 3.0
Size $(L \times W \times H)$	mm	$430\times270\times310$
Weight	kg	23.0
Conformity mark		(€
Protection class I		(1)

Article No.

141.126 ASTRO USB, 230 V / 1800 W, roller 50 mm, 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



Wedge welder COMET USB



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

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

Technical Data		
Voltage	V~	230 / 120
Power	W	1850 / 1500 / 1200
Temperature	°C	80 – 420
Max. overlap	mm	125
Speed	m/min	0.8 - 3.2
Welding pressure	N	100 – 1000
Weld seam width	mm	2×15 , with test channel
Material thickness	mm	0.5 - 3
Size $(L \times W \times H)$	mm	$295\times250\times245$
Weight	kg	7.5
Conformity mark		C€
Protection class I		

Article No.:

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

Additional versions available upon request.

Included with purchase: Welder, manual, guide-bar short, storage case * = with test channel, EURO plug

Technical Data		
Voltage	V~	230
Power	W	1850 / 1500 / 1200
Temperature	°C	80 – 420
Max. overlap	mm	125
Speed	m/min	0.8 - 3.2
Welding pressure	N	100 – 1000
Weld seam width	mm	2×15 , with test channel
Material thickness	mm	0.5 - 3
Size $(L \times W \times H)$	mm	$295 \times 250 \times 245$
Weight	kg	7.5
Conformity mark		C€
Protection class I		(4)

Article No.:

 137.626
 COMET USB, with wedge 50 mm for PE, 230 V / 1200 W *

 138.088
 COMET USB, with wedge 70 mm for PE, 230 V / 1500 W *

 146.052
 COMET USB, with wedge 95 mm for PE, 230 V / 1850 W *

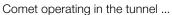
Additional versions available upon request.

Included with purchase: Welder, manual, guide-bar short, memorystick, storage case $^\star=$ with test channel, EURO plug











... or on a landfill site.

Accessories COMET / COMET USB

	112.974	Extremely light cross handle 145 gram, material: aluminum
	129.224	Guide-bar, complete
	110.715	Tool set consists of hexagon spanner 8 / 10 / 13 / 17 mm and Allen keys 3 / 4 / 6 mm
OO LEISTER	115.905	USB memory stick



Perfectly protected in the storage case. **126.448** (included with purchase)

Fields of application COMET / COMET USB

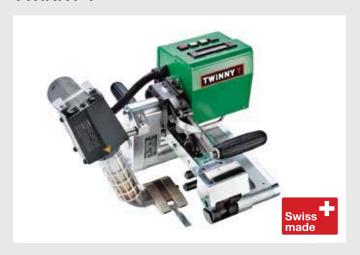
Power	185	50 W	150	00 W	120	00 W
Type of material	Wedge	Material thickness	Wedge	Material thickness	Wedge	Material thickness
PE-HD, PE-C, PP	95 mm copper	1.5 – 2.0 mm	70 mm copper	1.5 – 2.0 mm	50 mm copper	0.5 – 1.5 mm
PE-LD	95 mm copper	2.0 – 3.0 mm	70 mm copper	2.0 – 3.0 mm	50 mm copper	1.0 – 2.0 mm
PVC-P			70 mm steel	2.0 – 3.0 mm	50 mm steel	1.0 – 2.0 mm

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

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

Combi-wedge welder

TWINNY T



Combi-wedge welder TWINNY T USB



- 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 230 / 120 W Power 2300 / 1900 °C 20 - 560Temperature 125 Max. overlap mm 0.8 - 3.2Speed m/min Welding pressure 100 - 1000Size $(L \times W \times H)$ $340 \times 360 \times 245$ mm Weight 6.9 - 7.9ka CE Conformity mark Protection class I

Article No.:

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

Included with purchase:

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

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

Technical Data		
Voltage	V~	230
Power	W	2300
Temperature	°C	80 – 560
Max. overlap	mm	125
Speed	m/min	0.8 - 3.2
Welding pressure	N	100 – 1000
Size $(L \times W \times H)$	mm	$340 \times 360 \times 245$
Weight	kg	6.9 - 7.9
Conformity mark		C€
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

Additional versions (incl. 120 V) available upon request.

Included with purchase:

Civil engineering version: Welder, manual, guide-bar long (129.224),

USB-memory-stick, storage case

Tunneling version: Welder, manual, guide-bar short, storage case



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 / 1900
Temperature	°C	80 - 600
Max. overlap	mm	125
Speed	m/min (drive 256:1)	0.2 - 2.5
	(drive 144:1)	1.4 - 4 (6)
Welding pressure	N (256:1 / 144:1)	1000 / 500
Size $(L \times W \times H)$	mm	$350\times390\times270$
Weight	kg	6.5 - 6.9
Conformity mark		C€
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, 6 m/min, 230 V /
	2900 W, with test channel, combi-wedge short, Euro plug
119.039	TWINNY S for tunnel construction, drive 256:1, 120 V / 1900 W,
	with test channel, combiwedge long, w/o plug

Accessories TWINNY T / T USB / TWINNY S

	112.974	Extremely light cross handle 145 gram, material: aluminum
	129.224	Guide bar, complete
	100.517 100.519 100.518 100.520	Combi-wedge short 50 mm, with test channel 30 mm, with test channel 50 mm, without test channel 30 mm, without test channel
	100.525 100.526	Combi-wedge long, complete 50 mm, with test channel 50 mm, without test channel, slotted, perforated
	110.715	Tool set consists of hexagon spanner 8 / 10 / 13 / 17 mm and hexagon bolt 3 / 4 / 6 mm
OO LEISTER	115.905	USB memory stick TWINNY T USB
	126.448	Storage case (included with purchase)
	103.604 103.602 101.905 101.910 101.913	230 V / 2100 W heating element, TWINNY T / T USB 120 V / 1800 W heating element, TWINNY T / T USB 230 V / 2750 W heating element, TWINNY S 230 V / 2100 W heating element, TWINNY S 120 V / 1800 W heating element, TWINNY S

Included with purchase:

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





TRIAC DRIVE AT: The little all-rounder

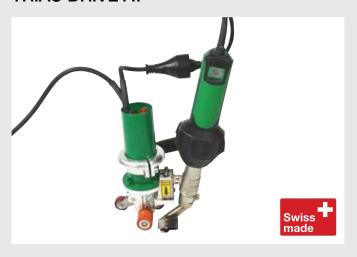
This semi-automatic hot-air welder that's truly one-of-a-kind. Its flexible concept enables the TRIAC DRIVE AT to be used in all kinds of applications.



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	°C	80 - 650
Speed	m/min	0.5 - 3
Air flow	I / min	(20°C) 120 - 240
Size $(L \times W \times H)$	mm	$300 \times 230 \times 380$
Weight (with 3 m cable)	kg	4.1
Conformity mark		C€
Protection class II		

Article No.:

117.331	TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, width of
	welding nozzle 30 mm, without grip, pressure roller silicone, EURO-plug
148.606	TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, width of
	welding nozzle 12 mm, with grip, pressure roller steel, EURO-plug
148.605	TRIAC DRIVE AT 230 V / 1700 W, inside, without guide, width of
	welding nozzle 38 mm, without grip, pressure roller steel, EURO-plug
Δdditional	versions available upon request

Accessories TRIAC DRIVE AT

115.274 115.176 115.712 115.857 115.921	12 mm pressure roller, steel 30 mm pressure roller, steel 40 mm pressure rolle, steel 30 mm pressure roller, silicone 40 mm pressure roller, silicone
115.276 138.570	Single supporting carrier, brass Single supporting carrier, silicone
115.281 115.279 115.699 115.703 115.701	Overlap welding nozzle, inside, push-fit 38 mm, with grip 30 mm, with grip 12 mm, without grip 38 mm, without grip 30 mm, without grip
115.280 115.278 115.702 115.700	Overlap welding nozzle, outside, push-fit 38 mm, with grip 30 mm, with grip 38 mm, without grip 30 mm, without grip
108.985	Storage case (included with purchase)
142.717	230 V / 1550 W heating element for TRIAC AT



WELDPLAST S6: The workhorse.

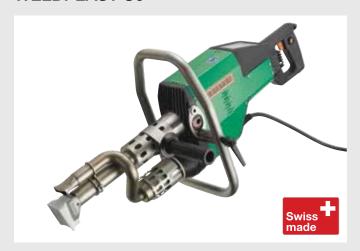
WELDPLAST S6 is the world's highest rated handheld extrusion welder. With an output of 6 kg/h, it is surprisingly maneuverable. It features a brushless, preheat motor, multifunction display and comfortable ergo-grip, making the S6 Leister's flagship extrusion welder.



WELDPLAST S6 undertaking assembly applications on a landfill site.

Digitally regulated extrusion welder

WELDPLAST S6



- 6 kg 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	mm	Ø 4 – Ø 5
Output	kg/hr	3.9 - 6.0
Size $(L \times W \times H)$	mm	821 × 116 × 240
Weight	kg	14
Conformity mark		C€
Protection class I		(

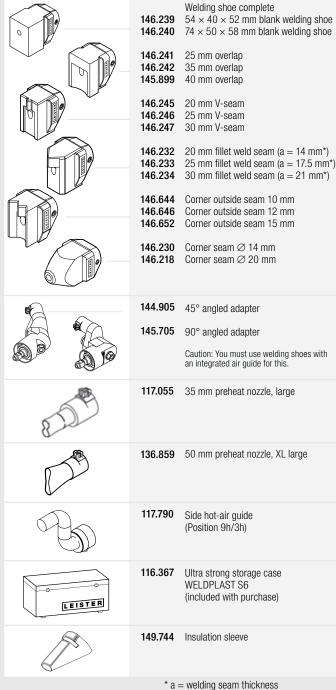
Article No.:

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





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 four kilograms 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

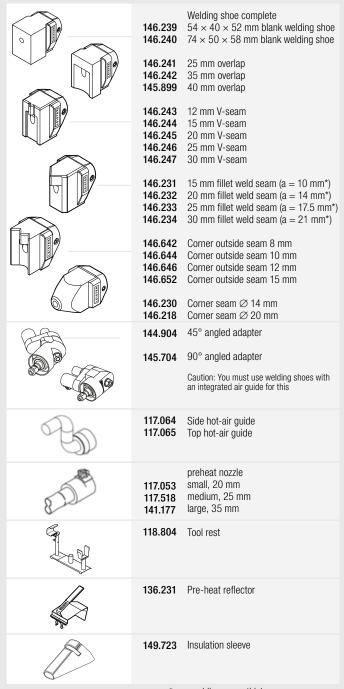
Technical Data			
Voltage	V~	230	
Power	W	3680	
Material		PE / PP	
Welding rod	mm	Ø 3 − 4	\emptyset 4 – 5
Output	kg/hr	1.5 - 4.0	
Size $(L \times W \times H)$	mm	$560 \times 110 \times 30$	00
Weight	kg	8.7	
Conformity mark		C€	
Protection class I		(

Article No.:

146.812	WELDPLAST S4, 230 V / 3680 W, 4-5 mm, top hot-air guide, overlap
	welding shoe 40 mm, preheat nozzle large, with Euro plug, storage
	case

116.948 WELDPLAST S4, 230 V / 3680 W, 3–4 mm, side hot-air guide, blank welding shoe, preheat nozzle large, medium and small, with Euro plug, storage case

Accessories WELDPLAST S4



^{*} a = welding seam thickness

WELDPLAST S2: The masterpiece.

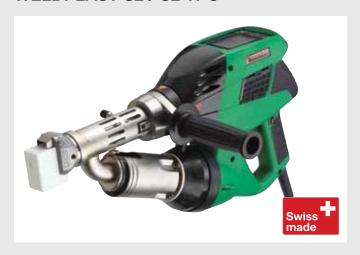
The WELDPLAST S2 is a compact, ergonomically designed workhorse. The handy size extruder puts out two kilograms per hour an can even weld TPO materials without difficulty.



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

Digitally regulated extrusion welder

WELDPLAST S2 / S2 TPO



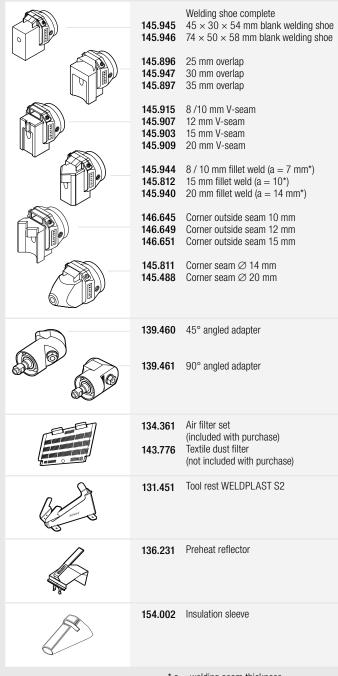
- Maintenance-free blower
- Perfect weld seam quality
- Multifunctional display
- Ergonomic and handy
- Successfully operated worldwide

Technical Data		
Voltage	V~	230
Power	W	3000
Material standard version		PE / PP
Welding rod	mm	Ø 3 – Ø 4
Output Ø 3 mm	kg/hr	PE: 0.6 – 1.3
		PP: 0.5 – 1.2
Output ∅ 4 mm	kg/hr	PE: 1.0 – 2.3
		PP: 0.9 – 2.0
Size $(L \times W \times H)$	mm	$450\times98\times260$
Weight	kg	5.8
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



* 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 sligthly 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

Air heated extrusion welder

FUSION 3C



- High welding performance
- Compact and handy

Technical Data

- · Motor start-up protection prevents cold start
- Dual-sided twist-free wire intake
- 360° rotatable welding shoe

		Version	Ø3−4	Version	Ø 4 – 5
Welding rod \varnothing	mm	3	4	4	5
Output PE	kg/hr	2.0 - 2.5	2.7 - 3.6	2.1 - 2.6	2.7 - 3.6
Output PP	kg/hr	1.8 - 2.3	2.5 - 3.4	1.8 - 2.4	2.5 - 3.4
Voltage	٧~	230			
Power	W	3500			
Material		PE / PP			
Size $(L \times W \times H)$	mm	670×90	× 180		
Weight	kg	7.2			
Conformity mark		CE			
Protection class II					

Article No.:

Technical Data

118.300 FUSION 3, 230 V / 3500 W, Welding rod \varnothing 3 – 4 mm, Euro plug FUSION 3, 230 V / 3500 W, Welding rod \varnothing 4 – 5 mm, Euro plug Included with purchase: FUSION 3, blank welding shoe, storage case

Version $\varnothing 3 - 4$ Version $\varnothing 4 - 5$ Welding rod \varnothing mm 4 4 2.0 - 2.5 2.7 - 3.6 2.1 - 2.6 2.7 - 3.6Output PE kg/hr Output PP 1.8 - 2.3 2.5 - 3.4 1.8 - 2.4 2.5 - 3.4kg/hr Voltage W 2800 Power Material PE / PP mm $588 \times 98 \times 225$ Size $(L \times W \times H)$ 6.9 Weight kg

(€

Article No.:

Conformity mark

Protection class II

123.866 FUSION 3C, 230 V / 2800 W, Welding rod Ø 3 – 4 mm, Euro plug 144.826 FUSION 3C, 230 V / 2800 W, Welding rod \varnothing 4 – 5 mm, Euro plug

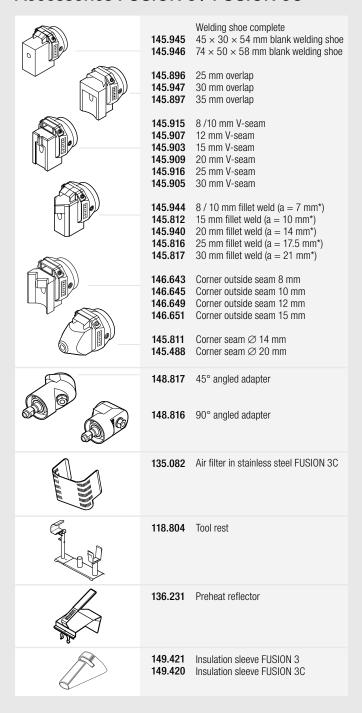
Included with purchase: FUSION 3C, blank welding shoe, storage case





The FUSION 3 for comfortable working in upright positions.

Accessories FUSION 3 / FUSION 3C



General accessories

144.095	Welding rod de-reeler
123.173 119.540	Storage case WELDPLAST S4 / FUSION 3 WELDPLAST S2 / S2 TPO / FUSION 3C (included with purchase)
134.567 109.984 113.268 123.561	Heating element, 230 V / 2600 W, for WELDPLAST S6 230 V / 2200 W, for WELDPLAST S4 / S2 230 V / 1100 + 1100 W, for FUSION 3 230 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



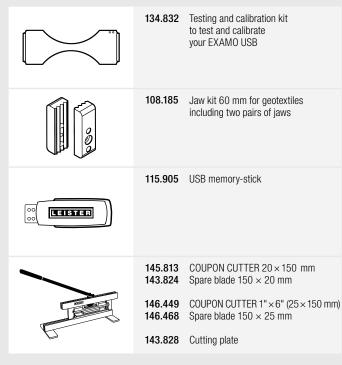
- Construction-site approved
- Handy, robust and reliable
- Testing of elongation, peak force, tear force, test speed and position
- With jaws also suitable for geo textiles (see accessories)
- Electronic recording of the measurement data

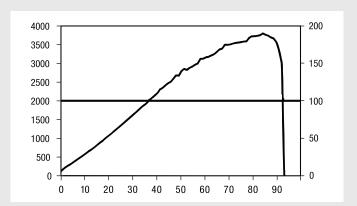
Technical Data			
Туре		300F USB	600F USB
Voltage	V~	230	230
Power	W	200	200
Tensile load	N	4000	4000
Jaw spacing	mm	5 – 300	5 – 600
Range	mm	300	600
Test speed	mm/min	10 – 300	10 – 300
Sample thickness	mm	max. 7	max. 7
Sample width	mm	max. 40	max. 40
		(60 optional)	(60 optional)
Size $(L \times W \times H)$	mm	750×270×190	1050×270×190
		(case)	(case)
Weight	kg	14	17.5
Conformity mark		C€	C€
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

Accessories EXAMO 300F USB, 600F USB





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 \varnothing 320 mm

152.981 VACUUM BOX 810 x 310 mm

153.024 VACUUM PUMP 230V 153.025 VACUUM PUMP 120V

53.025 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

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.:

142.475 Flexible injection needle with manometer

Article No.:

150.720 Tapered injection needle with manometer

Accessories



142.569 Flexible spare needlel

Accessories



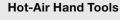
150.142 Tapered Spare needle

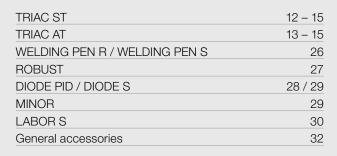




Plastic Fabrication

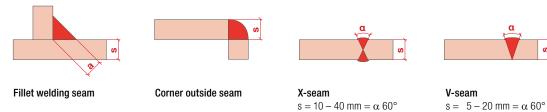
Overview of hand extruders	78
WELDPLAST S1	79 / 80
WELDPLAST S6	81
WELDPLAST S4	82
WELDPLAST S2 / S2 PVC	83 / 84
FUSION 3 / 3C	85 / 86
FUSION 2	87
General accessories hand extruders	88
Welding rods	89













 $s=25-30~\text{mm}=\alpha~50^\circ$

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) kg/hr	3.9 - 6	1.5 – 4	0.6 - 2.3	0.2 - 0.8	1.8 - 3.6	1.8 - 3.6	1.3 – 1.8
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 mm	15 – 40	8 – 35	4 – 20	4 – 10	8 – 25	8 – 25	6 – 15
Welding rod ∅ mm	4 – 5	3-4/4-5	3 – 4	3 – 4	3-4/4-5	3-4/4-5	4
Weight kg	14	8.7	5.8	4.7	7.2	6.9	5.9
Length mm	821	560	450	435	690	588	450
Voltage V∼	230	230	230	230 / 120	230	230	230
Screw extruder	yes	yes	yes	yes	yes	yes	yes
Container construction	√ √	//	$\checkmark\checkmark$	√ √	$\checkmark\checkmark$	$\checkmark\checkmark$	//
Pipeline construction	√ √	//	$\checkmark\checkmark$	√ √	$\checkmark\checkmark$	$\checkmark\checkmark$	//
Landfills / civil engineering	√ √	√ √	✓	0	$\checkmark\checkmark$	\checkmark	•
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

 $s = 50 - 60 \text{ mm} = \alpha 50^{\circ}$

1: Air and plast temperatures are shown via a display and can be separately and freely adjusted.

Overview of Extrusion Welders Output (kg/hr) 0.0 6.0 3.5 4.5 5.5 25-35 **WELDPLAST S6** 15-25 WELDPLAST S4 8 - 15**WELDPLAST S2** 5-8 **WELDPLAST S1** 15-25 **FUSION 3** Wall thickness (ideal) mm Min 15-25 **FUSION 3C**

✓ very suitable

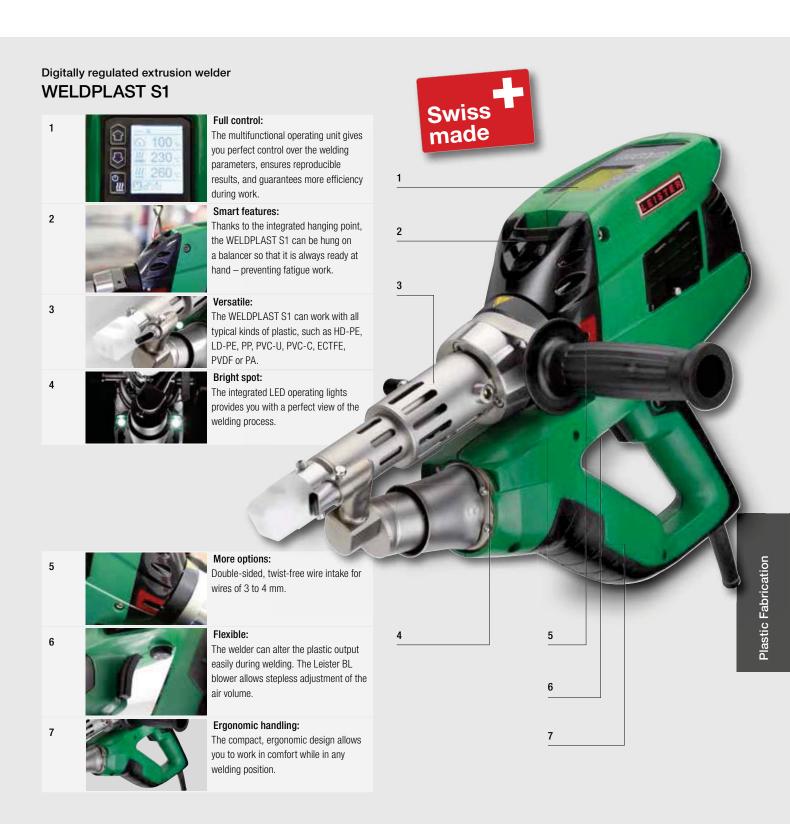
✓ suitable

O unsuitable

^{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.

WELDPLAST S1: Outstandingly compact.

With the new WELDPLAST S1 compact extruder, you can achieve perfect seam quality. The double-sided, twist-free wire intake can work with 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.



www.leister.com



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

Digitally regulated extrusion welder

WELDPLAST S1



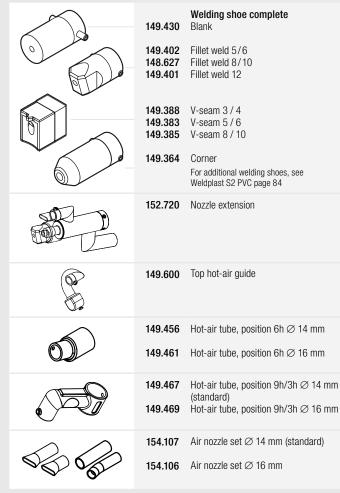
- Functional, ergonomic design with comfort grip areas
- Extremely high output power of 0.8 kg/h (HD-PE)
- · Integrated LED lighting and hanging point
- Can work with all typical kinds of plastic
- Multifunction panel with predefined welding parameters
- BL blower, adjustable air volume

Technical Data		
Voltage	V~	230 / 120 / 100
Power	W	1600 / 1800 / 1500
Material		HD-PE, LD-PE, PP, PVC-U PVC-C, PVDF, ECTFE, PA
Welding rod	mm	Ø 3 − 4
Output	kg/hr	0.2 - 0.8 (PVC up to 1.15 kg/h)
Size (L \times W \times H)	mm	435 × 91 × 264
Integrated welding profiles		HD-PE, PP, PVC-U,PVC-C, PVDF 10 free profile storage spaces
Weight	kg	4.7
Conformity mark		CE
Approval mark		(
Certification scheme		CCA
Protection class I		
AAt-la Na		

Article No.:

148.396 WELDPLAST S1, 230 V / 1600 W, \varnothing 3 – 4 mm, Euro plug 148.395 WELDPLAST S1, 120 V / 1800 W, \varnothing 3 – 4 mm, Euro plug 148.394 WELDPLAST S1, 100 V / 1500 W, \varnothing 3 – 4 mm, Euro plug Included with purchase: WELDPLAST S1, user manual, 4 pre-heating nozzles \varnothing 14 mm, welding shoe K10, storage case

Accessories WELDPLAST S1





General accessories



WELDPLAST S6: The workhorse.

WELDPLAST S6 is the world's highest rated handheld extrusion welder. With an output of 6 kg/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.



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

Digitally regulated extrusion welder

WELDPLAST S6



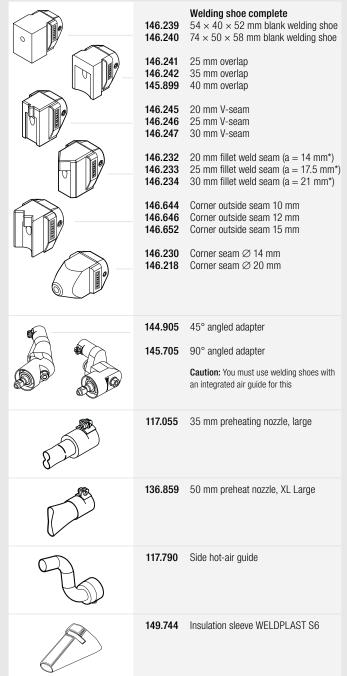
- 6 kg output per hour
- · Highest possible preheating capacity
- Adjustable control wheel
- Maintenance-free hot-air blower
- Multifunctional display

Technical Data		
Voltage	V~	230
Power	W	4600
Material		PE / PP
Welding rod	mm	Ø 4 or Ø 5
Output	kg/hr	3.9 - 6.0
Size $(L \times W \times H)$	mm	821 × 116 × 240
Weight	kg	14
Conformity mark		C€
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





General accessories

*a = Welding seam thickness

WELDPLAST S4: The workmate.

The WELDPLAST S4 is the first extruder of its kind with a brushless, maintenance-free motor for generating preheated air. Output of up to four kilograms per hour 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

Article No.:

116.948 WELDPLAST S4, 230 V / 3680 W, 3 – 4 mm, Euro plug,

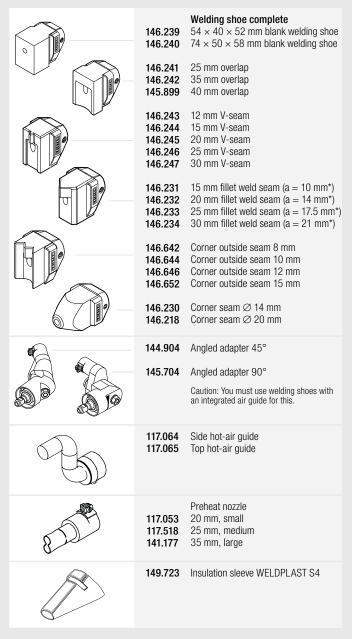
blank welding shoe

146.813 WELDPLAST S4, 230 V / 3680 W, 4 – 5 mm, Euro plug,

welding shoe K 15

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

Accessories WELDPLAST S4



 * a = Welding seam thickness

General accessories





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
- Successfully operated worldwide

Technical Data		
Voltage	V~	230
Power	W	3000
Material		PE / PP
		Other materials on request
Welding rod	mm	Ø 3 or Ø 4
Output Ø 3 mm	kg/hr	PE: 0.6 – 1.3 PP: 0.5 – 1.2
Output Ø 4 mm	kg/hr	PE: 1.0 – 2.3 PP: 0.9 – 2.0
Size $(L \times W \times H)$	mm	$450 \times 98 \times 260$
Weight	kg	5.8
Conformity mark		C€
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	V~	230
Voltage	•	
Power	W	3000
Material		PVC-U, PE, PP
		Other materials on request
Welding rod	mm	Ø 3 or Ø 4
Output Ø 3 mm	kg/hr	PVC-U: 0.9 – 1.7 PE: 0.6 – 1.3
Output Ø 4 mm	kg/hr	PVC-U: 1.5 – 2.7 PE: 1.0 – 2.3
Size (L \times W \times H)	mm	$450 \times 98 \times 260$
Weight	kg	5.8
Conformity mark		C€
Approval mark		(\$)
Certification scheme		CCA
Protection class I		(1)

Article No.:

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

Included with purchase: WELDPLAST S2 PVC, 3 preheati nozzles, welding shoe K 8 / 10 mm (Art. no. 146.236), storage case



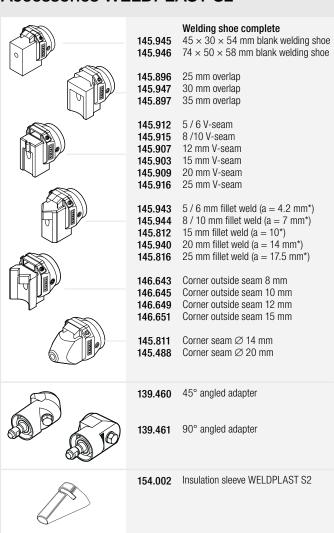


The handy WELDPLAST S2 in action.



Even inside radiuses are easy to weld.

Accessories WELDPLAST S2

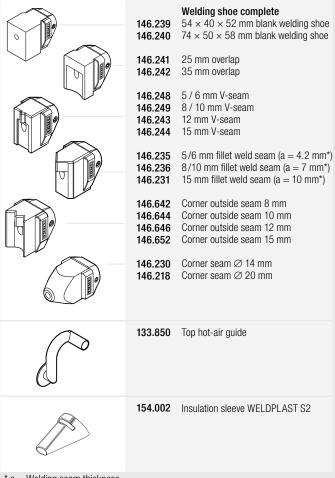


* a = Welding seam thickness



With the WELDPLAST S2 perfect welds are possible

Accessories WELDPLAST S2 PVC



* a = Welding seam thickness



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

General accessories ≥ 88





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 FUSION 3C provides an astounding output volume of up to 3.6 kilograms 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

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

	Version	Ø3−4	Version	Ø 4 – 5
mm	3	4	4	5
kg/hr	2.0 - 2.5	2.7 - 3.6	2.1 - 2.6	2.7 - 3.6
kg/hr	1.8 - 2.3	2.5 - 3.4	1.8 - 2.4	2.5 - 3.4
V~	230			
W	3500			
	PE / PP			
mm	670×90	× 180		
kg	7.2			
	C€			
	\$			
	CCA			
	kg/hr kg/hr V~ W	mm 3 kg/hr 2.0 − 2.5 kg/hr 1.8 − 2.3 V~ 230 W 3500 PE / PP mm 670 × 90 kg 7.2 C€ ⑤	mm 3 4 kg/hr 2.0 − 2.5 2.7 − 3.6 kg/hr 1.8 − 2.3 2.5 − 3.4 V~ 230 W 3500 PE / PP mm 670 × 90 × 180 kg 7.2 C€ ⑤ CCA	kg/hr 2.0 − 2.5 2.7 − 3.6 2.1 − 2.6 kg/hr 1.8 − 2.3 2.5 − 3.4 1.8 − 2.4 V~ 230 W 3500 PE / PP mm 670 × 90 × 180 kg 7.2 C€ ⑤ CCA

Article No.:

118.300 FUSION 3, 230 V / 3500 W, welding rod \varnothing 3 – 4 mm, Euro plug 144.615 FUSION 3, 230 V / 3500 W, welding rod \varnothing 4 – 5 mm, Euro plug

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

Technical Data					
		Version	Ø 3 – 4	Version	\emptyset 4 – 5
Welding rod ∅	mm	3	4	4	5
Output PE	kg/hr	2.0 - 2.5	2.7 - 3.6	2.1 - 2.6	2.7 - 3.6
Output PP	kg/hr	1.8 - 2.3	2.5 - 3.4	1.8 - 2.4	2.5 - 3.4
Voltage	V~	230			
Power	W	2800			
Material		PE / PP			
Size $(L \times W \times H)$	mm	588×98	× 225		
Weight	kg	6.9			
Conformity mark		C€			
Approval mark		\$			
Certification scheme		CCA			
Protection class II					

Article No.:

123.866 FUSION 3C, 230 V / 2800 W, welding rod Ø 3 – 4 mm, Euro plug 144.826 FUSION 3C, 230 V / 2800 W, welding rod \varnothing 4 – 5 mm, Euro plug

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

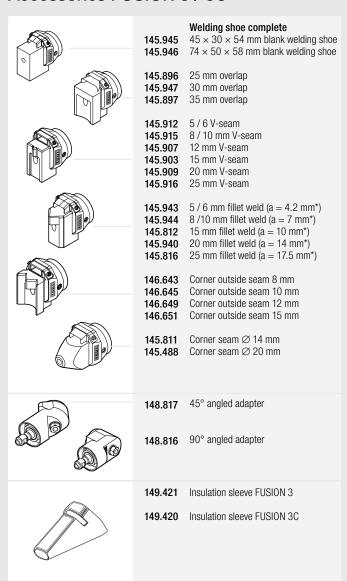


Perfectly stored in the case.



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

Accessories FUSION 3 / 3C



* a = Welding seam thickness

LEISTER

The insulation sleeve protects the machine from heat loss, as well as protects the operator from direct contact with the extruder.



General accessories | > 88 | III







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 450 mm, 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

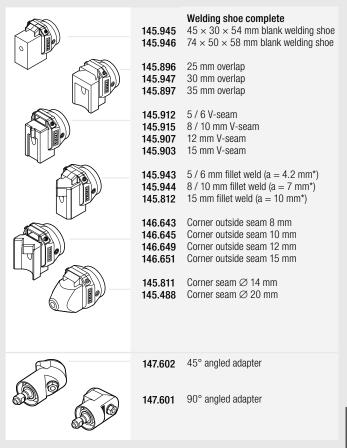
Technical Data		
Voltage	V~	230 / 120
Power	W	2800
Material		PE / PP
Air temperature	°C	up to 340
Plastification temperature	°C	up to 300
Welding rod	\varnothing mm	4
Output PE	kg/hr	1.3 – 1.8
Size $(L \times W \times H)$	mm	450 × 98 × 225
Weight	kg	5.9 (without cable)
Conformity mark		C€
Approval mark		\$
Certification scheme		CCA
Protection class II		

Article No.:

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

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

Accessories FUSION 2



* a = Welding seam thickness

General accessories





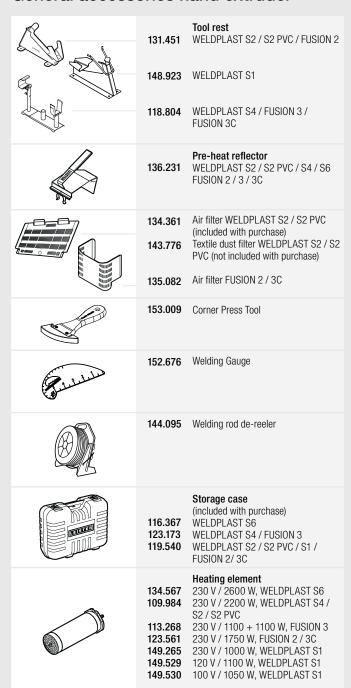


Draw welding on a PE-container with the DIODE PID.



The WELDPLAST S4 during outdoor use in Spain.

General accessories hand extruder



PLASTFIX lends the weld seam the necessary holding pressure.



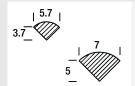


Welding rods

Article		packaging units (kg)
Welding acc	cessories PE	
104.283	HDPE welding rod, profile A, black	3
104.294	HDPE welding rod, profile A, white	3
104.284	HDPE welding rod, profile B, black	5
104.299	HDPE welding rod, profile B, white	5
106.650	HDPE welding rod, 8x 2 mm, white	1
104.300	LDPE welding rod, profile A, black	3
Welding acc	cessories PP	
104.287	PP welding rod, profile A, grey / beige	3
104.301	PP welding rod, profile A, black	3
104.288	PP welding rod, profile B, grey / beige	5
126.356	PP welding rod, 8x 2 mm, natural	2
Welding acc	cessories PVC	
104.296	PVC-U welding rod (hard), profile A, transparent	3
104.278	PVC-U welding rod (hard), profile A, grey	3
106.641	PVC-U welding rod, profile A, brown	3
104.280	PVC-U welding rod (hard), profile B, brown	5
104.279	PVC-U welding rod (hard), profile B, grey	5
104.302	PVC-P welding rod (soft), profile A, transparent	3
Welding acc	cessories ABS	
104.295	ABS welding rod, profile A, white	3
113.587	ABS welding rod, profile A, black	3
107.027	ABS welding band, 8x 2 mm, white	1

Article		packaging units (kg)
Welding ac	cessories div.	
104.297	PA welding rod, profile A, black	3
104.298	PC welding rod, profile A, transparent	3
104.313	PC welding rod / ABS / ALPHA (Honda), profile A, black	3
104.309	PS welding rod, profile A, white	3
104.308	PUR welding rod, profile A, black	3
106.654	Xenoy welding band, 8x 2 mm, grey	2
106.642	PPs welding rod, profile A, grey, flame resistant	3
104.304	PVDF welding rod, profile A, natural	3
104.303	POM welding rod, profile A, natural	3
Test bundle	es	
107.036	Test bundle bodywork welding rods, each consisting of profile A pieces of 37 cm single marked 6x HDPE, 6x PP, 6x PA, 6x PC, 6x ABS, 6x PCABS / APLHA Honda 6x PC / PBTP / Xenoy	1 ,
107.037	Test bundles standard each consisting of profile A pieces of 37 cm 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 37 cm single marked 9x HDPE, 8x 2 mm white, 9x PP, 8x 2 mm natural, 9x ABS, 8x 2 mm white, 9x PC / PBTP / Xenoy grey	

Profile sizes



Profile A Dimensions in mm

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 / 230
Power	W	2300
Temperature	°C	80 - 620
Speed	m/min	1.0 – 7.5
Air flow range	%	50 – 100
Size $(L \times W \times H)$	mm	420 × 270 × 215
Weight (without de-reeler)	kg	11.5 (with 3 m cable)
Conformity marking		C€
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 605 x 486 x 312 mm plastic, greeen (included with purchase)
	103.604 103.602	Heating element, 230 V / 2100 W Heating element, 120 V / 1800 W

Article No.:

138.493	UNIFLOOR E, 230 V, including rod de-reeler, squeezed nozzle
130.493	, , ,
	(PVC and PUR), with Euro plug, storage case
115.345	UNIFLOOR E, 230 V, squeezed nozzle (PVC and PUR),
	with Euro plug, storage case
138.494	UNIFLOOR S, 230 V, including rod de-reeler, squeezed nozzle
	(PVC and PUR), with Euro plug, storage case
115.032	UNIFLOOR S, 230 V, squeezed nozzle (PVC and PUR),
	with Euro plug, storage case
139.217	UNIFLOOR E, 230 V, including rod de-reeler, Air-Knife nozzle,
	2/3 air flap (PUR), with Euro plug, storage case
115.024	UNIFLOOR E, 120 V, squeezed nozzle (PVC and PUR), without plug,
	storage case
	0.01490 0400



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 speeeds
- Adjustable guide roller for tracking accuracy
- Reduced dust particles when used with dust bag
- Cutting close to the edge possible

	Š.
	Swiss +

Technical Data		
Voltage	V~	120 / 230
Power	W	350 / 700 (2 levels)
Cutting speeds	rpm	Level 1: 14500 (350 W)
		Level 2: 18500 (700 W)
Groove depth adjustment	mm	0 – 4
Size $(L \times W \times H)$	mm	$240\times205\times255$
Weight	kg	6.7 (with 3 m cable)
Conformity marking		(€
Approval mark		\$
Certification scheme		CCA
Protection class II		

Accessories GROOVER

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Article No.:

108.393	GROUVER 230 V, lungsten carbide tipped blade Ø 110 X 3.5 mm,
	trapezium profile, with Euro plug, storage case
111.032	GROOVER 230 V, tungsten carbide tipped blade \varnothing 110 x 3.5 mm,
	round profile, with Euro plug, storage case
108.397	GROOVER 120 V, tungsten carbide tipped blade Ø 110 x 3.5 mm,

trapezium profile, with UK plug yellow, 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 work thanks to roller guide
- Groove gouging up to connecting walls
- · Adjustable groove depth

Technical Data		
Groove wide	mm	3.5
Groove depth	mm	0.5 - 2.5
Size $(L \times W \times H)$	mm	$180 \times 42 \times 92$
Weight	kg	0.290

Article number:

150.809 Gouging tool "GROOVY" 3.5 mm for elastic floor coverings

Accessories GROOVY



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.

General accessories



106.969 Spatula



122.541 Trimn

Trimming guide, to use with spatula (106.969)



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



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



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



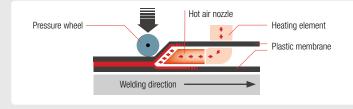
Leister. We know how.

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

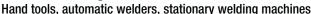


Hot-air welding

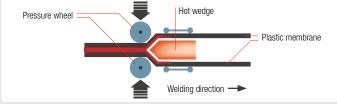








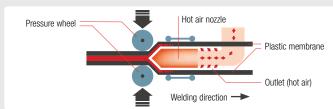
In hot gas welding, the thermal energy is controlled. Heated air is fed into the workpiece and the required amount of pressure is exerted onto the wheels.



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.



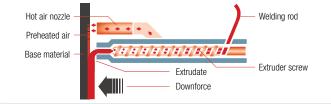
Draw Welding (Speed Welding) Hand tools







This welding method requires the use of a speed welding nozzle. Preheat the surfaces to the apropriate 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.

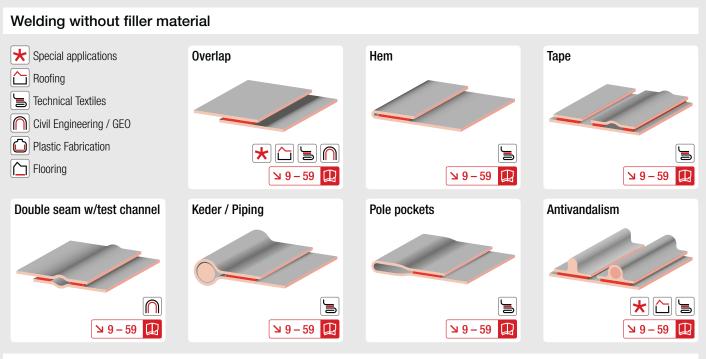


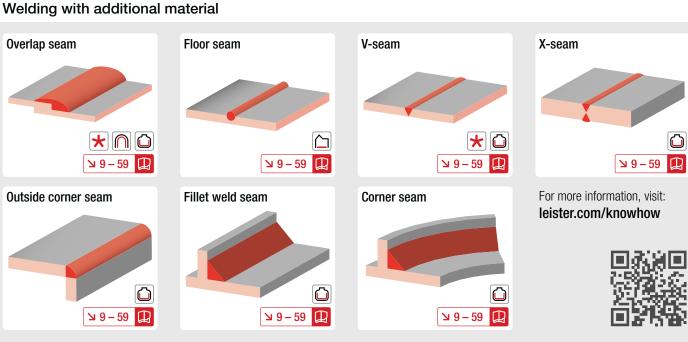
Plastic welding with Leister

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







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innovation and technology.>>

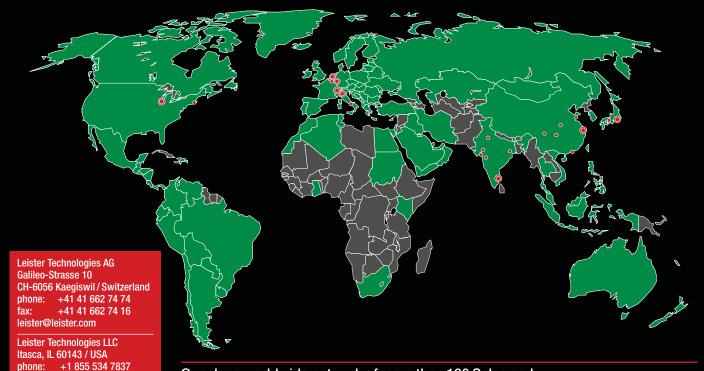
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