



PLASTIC WELDING

Plastic  
fabrication with  
Leister.

Versatile and  
economical.



## Leister delivers performances.

Wherever you need to apply heat, Leister provides the ideal solution. We have been the worldwide leader in the field of plastic welding and hot-air blowers for over 60 years. For several years now we have also been offering innovative and effective laser systems and microsystems. We develop and produce all of our products in Switzerland – so you can always rely on the proverbial Leister quality. And because 98% of our production is exported, therefore, we have established a dense network of service centers throughout the world – guaranteeing excellent service anytime and anywhere.

**60 years**  
of Swiss made quality



Leister Corporate Center, Kaegiswil, Switzerland

**LEISTER**



### Plastic Welding

For decades now, we have been the worldwide market leader. The performance and reliability of our products makes Leister the first choice. Our tools are used in roof sealing systems, floor coverings, plastic sheeting, in earthworks, hydraulic and tunnel engineering, in process equipment manufacturing and for vehicle repair.

**NOVOLAS™**



### Lasersystems

Our innovative solutions for precision welding of plastics open up new production methods in automobile manufacturing, in medical and sensory technology, electronics, as well as in microsystems technology or in soldering electronic components.

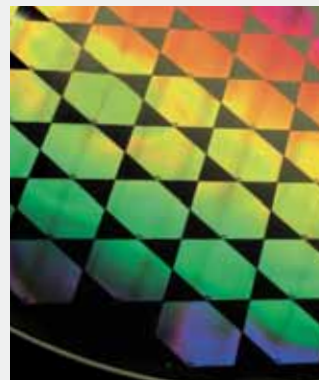
**LEISTER**



### Process heat

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

**a:etris**



### Microsystems

In tomorrow's world, the smallest of structures will play a huge role! In order for our customers to keep ahead of the field in the future, we are already developing and producing micro-mechanical sensors and micro-optical components in our cleanroom today.

## Leister supplies devices for perfect quality.

In apparatus and container construction with thermoplastic plastics, everything has to be welded perfectly from the beginning. That is why for many decades the demanding professional relies on Leister. Because Leister not only offers a varied selection of welding devices and accessories, but is also equipped with extensive know-how in the processing of plastic. And thanks to worldwide presence, they know what the practitioner requires.



*Leister stands for reliability and durability.*

*40 feet high silos was made of HDPE, Spain. (Photo: Colasit)*



Digitally regulated hand extruder

## WELDPLAST S6

When output volume counts, the 13.2 lbs/h WELDPLAST S6 is the ideal partner. Its innovative control wheel grip enables working in all welding positions. At the same time, it serves as a device rest and as fastening for a cable suspension.



- Verified 13.2 lbs output per hour
- Highest possible preheating capacity
- Flexible adjustable handle
- Maintenance-free blower
- Multifunctional display
- Air flow 15.9 cfm

### Technical Data

Voltage / Frequency	V - / Hz	230	50 / 60
Power consumption	W	5300	
Material		PE / PP	
Welding rod	inch	Ø 0.16 or Ø 0.2	
Output	lbs/h	8.6 - 13.2	
Size (L x W x H)	inch	32.8 x 4.6 x 9.6	
Weight	lbs	30.8 (without cord)	
Markings		CE, ⊕, Ⓢ	

**Article no** 134.318 with Cekon plug  
 Contained in scope of supply: Overlap welding shoe and ultra-strong transport box.

















Sturdy, roomy transport box.



Practical: Control wheel grip with cable suspension

### Accessories WELDPLAST S6

	<b>119.217</b>	<b>Welding shoe complete</b>
	<b>119.222</b>	Blank 1.97 x 1.58 x 1.5 inch
	<b>119.190</b>	Blank 2.76 x 1.97 x 1.87 inch
	<b>119.190</b>	Overlap 1.4 inch
	<b>135.901</b>	Overlap 1.6 inch
	<b>119.197</b>	V-seam 0.79 and X-seam 1.38/1.58 inch
	<b>119.198</b>	V-seam 0.98 inch
	<b>119.199</b>	V-seam 1.18 inch
	<b>119.164</b>	Fillet weld 0.79 inch (a = 0.55 inch)
	<b>119.165</b>	Fillet weld 0.98 inch (a = 0.69 inch)
	<b>119.166</b>	Fillet weld 1.18 inch (a = 0.83 inch)
	<b>117.055</b>	Preheating nozzle large, 1.4 inch
	<b>136.859</b>	Preheating nozzle large XL, 2 inch
	<b>117.790</b>	Side hot air guide

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



Digitally regulated hand extruder

## WELDPLAST S4

Compact and ergonomic. The WELDPLAST S4 hand extruder is the first of its type with its brushless, maintenance-free motor for generating preheated air. An output of up to 8.8 lbs/h is possible thanks to its powerful drive system.



- 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
- Air flow 15.9 cfm
- Both sided twist-free wire intake
- Maintenance free blower

### Technical Data

Voltage / Frequency	V- / Hz	230	50 / 60
Power consumption	W	3680	
Material		PE / PP	
Welding rod	inch	Ø 0.12 or Ø 0.16	
Output	lbs/h	4.9 – 8.8	
Size (L × W × H)	inch	22.1 × 4.3 × 11.8	
Weight	lbs	17.6 (without cord)	
Markings		CE, (S), CCA, (E)	

**Article no** 116.948 with Euro plug  
 Contained in scope of supply: blank welding shoe, Preheating nozzle small, middle and large, transport box



Perfectly stowed in plastic case.

### Accessories WELDPLAST S4

	<b>119.217</b>	<b>Welding shoe complete</b>
	<b>119.222</b>	Blank 1.97 × 1.58 × 1.5 inch
	<b>119.194</b>	Blank 2.76 × 1.97 × 1.87 inch
	<b>119.195</b>	V-seam 0.32/0.39 and X-seam 0.59/0.79 inch
	<b>119.196</b>	V-seam 0.47 and X-seam 0.98 inch
	<b>119.197</b>	V-seam 0.59 and X-seam 1.18 inch
	<b>119.199</b>	V-seam 0.79 and X-seam 1.38/1.58 inch
	<b>119.198</b>	V-seam 0.98 inch
	<b>119.161</b>	Fillet weld 0.32/0.39 inch (a = 0.28 inch)
	<b>119.163</b>	Fillet weld 0.59 inch (a = 0.41 inch)
	<b>119.164</b>	Fillet weld 0.79 inch (a = 0.55 inch)
	<b>119.165</b>	Fillet weld 0.98 inch (a = 0.69 inch)
	<b>119.190</b>	Overlap 1.4 inch
	<b>135.901</b>	Overlap 1.6 inch
	<b>129.009</b>	Corner, short, Ø 0.79 inch
	<b>129.011</b>	Corner, long, Ø 0.55 inch
	<b>117.064</b>	Side hot air guide
	<b>117.065</b>	Top hot air guide
	<b>117.053</b>	Preheating nozzle small, 0.79 inch
	<b>117.518</b>	Preheating nozzle middle, 1.0 inch
	<b>117.055</b>	Preheating nozzle large, 1.4 inch
	<b>118.804</b>	Tool rest
	<b>136.231</b>	Pre-heat reflector

The powerful WELDPLAST S4 in use.



# WELDPLAST S2



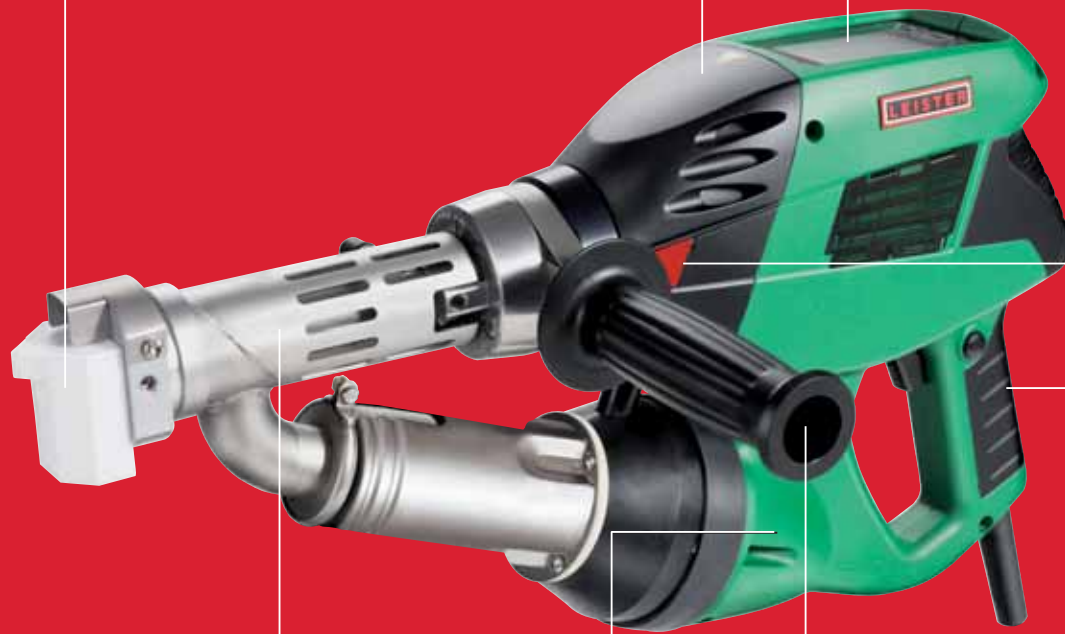
360° rotating welding shoe



Low-noise, high power transmission



Multifunctional display



Double sided, twist free wire intake



Ergonomic construction



Material-optimized extruder screw



Maintenance-free blower screw



Freely adjustable swivel-mounted handgrip



The practical transport box is contained in scope of supply

## Digitally regulated manual extruder

# WELDPLAST S2 / WELDPLAST S2 PVC

The new WELDPLAST S2 is a masterpiece of modern technology. Its external appearance fulfils the highest requirements of functionality and design, while internally all the needs of the material to be worked are met. It even welds PVC-U without any difficulty.



- Maintenance free blower
- Perfect seam quality
- Multifunctional display
- Ergonomic and easy to handle
- Used successfully all over the world




### Technical Data

Voltage / Frequency	V- / Hz	230	50 / 60
Power consumption	W	3000	
Material standard version		PE / PP	
PVC version		PE / PP / PVC-U	
Welding rod	inch	Ø 0.12 or Ø 0.16	
Output Ø 0.12 inch	lbs/h	PVC-U: 1.98–3.75   PE: 1.32–2.87   PP: 1.1–2.65	
Output Ø 0.16 inch	lbs/h	PVC-U: 3.31–5.95   PE: 2.21–5.07   PP: 1.98–4.41	
Size (L × W × H)	inch	17.7 × 3.9 × 10.2	
Weight	lbs	12.8 (without cord)	
Markings		CE, CCA, Ⓢ	








Article no	127.215	Standard version with Euro plug
	135.724	PVC version with Euro plug

Contained in scope of supply: blank welding shoe, transport box, 3 pre-heat nozzles (S2-PVC)

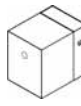






### Accessories WELDPLAST S2 / WELDPLAST S2 PVC

	131.451	Tool rest
	136.231	Pre-heat reflector
	134.361	Air filter set

### Accessories WELDPLAST S2

	118.094	Welding shoe complete
	119.214	Blank 1.97 × 1.18 × 1.5 inch Blank 2.76 × 1.97 × 1.87 inch
	118.888	V-seam 0.2/0.24 and X-s. 0.39/0.47 inch
	118.889	V-seam 0.32/0.39 and X-s. 0.59/0.79 inch
	119.202	V-seam 0.47 and X-seam 0.98 inch
	119.203	V-seam 0.59 and X-seam 1.18 inch
	119.204	V-seam 0.79 and X-s. 1.38/1.58 inch
	118.887	Fillet weld 0.2/0.24 inch (a = 0.17 inch)
	118.885	Fillet weld 0.32/0.39 inch (a = 0.28 inch)
	119.139	Fillet weld 0.59 inch (a = 0.41 inch)
	119.140	Fillet weld 0.79 inch (a = 0.55 inch)
	129.008	Corner, short, Ø 0.79 inch
	129.010	Corner, long, Ø 0.55 inch

### Accessories WELDPLAST S2 PVC

	119.217	Welding shoe complete
	119.193	Blank 1.97 × 1.58 × 1.5 inch
	119.193	V-seam 0.2/0.24 and X-s. 0.39/0.47 inch
	119.194	V-Seam 0.32/0.39 and X-s. 0.59/0.79 inch
	119.195	V-seam 0.47 and X-seam 0.98 inch
	119.196	V-seam 0.59 and X-seam 1.18 inch
	119.159	Fillet weld 0.2/0.24 inch (a = 0.17 inch)
	119.161	Fillet weld 0.32/0.39 inch (a = 0.28 inch)
	119.163	Fillet weld 0.59 inch (a = 0.41 inch)
	119.164	Fillet weld 0.79 inch (a = 0.55 inch)
	129.009	Corner, short, Ø 0.79 inch
	129.011	Corner, long, Ø 0.55 inch
	133.850	Top hot air guide

The handy WELDPLAST S2 in use.



## Air heated hand extruder

# FUSION 2

This small powerhouse convinces with its ergonomic construction. The simple operation and the first-class welding quality have helped it to the breakthrough.



- With 17.7 inch the shortest in its performance class!
- The motor start-up protection prevents cold start
- Simple operation
- Both sided twist-free wire intake
- 360° rotating welding shoe
- Integrated electronics for stepless adjustment of the preheating temperature and output quantity

Technical Data			
Voltage / Frequency	V- / Hz	230	50 / 60
Power consumption	W	2800	
Material		PE/PP	
Temperature	°F	up to 644	
Plastification temperature	°F	up to 572	
Welding rod	∅ inch	0.16	
Output PE	lbs/h	2.87 – 3.97	
Size (L × W × H)	inch	17.7 × 3.9 × 8.9 (without welding shoe)	
Weight	lbs	13 (with 118 inch cord)	
Markings		CE, S, CCA, R	
<b>Article no</b>	119.200	with Euro plug	

## Accessories FUSION 2

	<b>118.094</b>	<b>Welding shoe complete</b>
	<b>119.214</b>	Blank 1.97 × 1.18 × 1.5 inch
		Blank 2.76 × 1.97 × 1.87 inch
	<b>118.888</b>	V-seam 0.2/0.24 and X-s. 0.39/0.47 inch
	<b>118.889</b>	V-seam 0.32/0.39 and X-s. 0.59/0.79 inch
	<b>119.202</b>	V-seam 0.47 and X-seam 0.98 inch
	<b>119.203</b>	V-seam 0.59 and X-seam 1.18 inch
	<b>118.887</b>	Fillet weld 0.2/0.24 inch (a = 0.17 inch)
	<b>118.885</b>	Fillet weld 0.32/0.39 inch (a = 0.28 inch)
	<b>119.139</b>	Fillet weld 0.59 inch (a = 0.41 inch)
	<b>118.890</b>	Overlap 1 inch
	<b>119.185</b>	Overlap 1.4 inch
	<b>129.008</b>	Corner, short ∅ 0.79 inch
	<b>129.010</b>	Corner, long, ∅ 0.55 inch
	<b>135.082</b>	Air filter
	<b>136.231</b>	Pre-heat reflector



Value must be protected...

The FUSION 2 in operation during container construction.



## Air heated hand extruder

### FUSION 3 / FUSION 3C

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

**FUSION 3C:** Like the FUSION 3, the somewhat shorter 3C provides an astounding output volume of up to 7.7 lbs/h.



- High welding performance
- Compact and handy
- The motor start-up protection prevents cold start
- Simple operation
- Both sided twist-free wire intake
- 360° rotating welding shoe

*With the long FUSION 3, welding seams near to the ground can be simply extruded.*

Technical Data	FUSION 3		FUSION 3C	
	V- / Hz	230 50 / 60	230 50 / 60	230 50 / 60
Voltage / Frequency				
Power consumption	W	3500	2800	
Material		PE / PP	PE / PP	
Welding rod	∅ inch	0.12 or 0.16	0.12 or 0.16	
Output (HDPE ∅ 0.16)	lbs	3.53 – 7.72	3.53 – 7.72	
Size (L × W × H)	inch	26.4 × 3.5 × 7.1	23.2 × 3.9 × 8.9	
Markings		CE, S, CCA, □		
<b>Article no</b>	<b>FUSION 3</b>	118.300	with Euro plug	
	<b>FUSION 3C</b>	123.866	with Euro plug	

### Accessories FUSION 3 / FUSION 3C

	<b>118.094</b>	Blank 1.97 × 1.18 × 1.5 inch
	<b>119.214</b>	Blank 2.76 × 1.97 × 1.87 inch
	<b>118.889</b>	V-seam 0.32/0.39 and X-s. 0.59/0.79 inch
	<b>119.202</b>	V-seam 0.47 and X-seam 0.98 inch
	<b>119.203</b>	V-seam 0.59 and X-seam 1.18 inch
	<b>119.204</b>	V-seam 0.79 and X-seam 1.38/1.58 inch
	<b>119.205</b>	V-seam 0.98 inch
	<b>118.885</b>	Fillet weld 0.32/0.39 inch (a = 0.28 inch)
	<b>119.139</b>	Fillet weld 0.59 inch (a = 0.41 inch)
	<b>119.140</b>	Fillet weld 0.79 inch (a = 0.55 inch)
	<b>119.141</b>	Fillet weld 0.98 inch (a = 0.69 inch)
	<b>118.890</b>	Overlap 1 inch
	<b>119.185</b>	Overlap 1.4 inch
	<b>129.008</b>	Corner, short, ∅ 0.79 inch
	<b>129.010</b>	Corner, long, ∅ 0.55 inch
	<b>135.082</b>	Air filter FUSION 3C
	<b>136.231</b>	Pre-heat reflector
	<b>118.804</b>	Tool rest

*Plenty of room for accessories.*



## Compact hand extruder

# WELDMAX





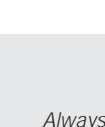
The smallest tool still packs a punch: With separately regulated heating systems for preheated air and filler, the light and compact WELDMAX hand extruder fulfils even the most stringent requirements of the DVS (German Welding Association).



- Extremely compact, handy and low-noise thanks to its non-screw transportation and plastification
- The lightest hand extruder
- Ideal for confined spaces
- Separate, stepless temperature control for plastification unit and preheated air
- Complies with DVS (German Welding Association) standards

Technical Data			
Voltage / Frequency	V~ / Hz	120 / 230	50 / 60
Power consumption	W	1800 / 2200	
Material		PE / PP / PVDF / PA (other materials on demand)	
Welding rod	inch	Ø 0.16	
Output (HDPE Ø 0.16")	lbs/h	0.7 – 1.8	
Size (L × W × H)	inch	17.4 × 3.7 × 10, handle Ø 2.24	
Weight	lbs	8.4 (without cord)	
Markings		CE, S, CCA, □	
<b>Article no</b>	113.338	120V without plug	
	112.920	230V without plug	

## Accessories WELDMAX

		Welding shoe complete
	112.830	Blank
	112.629	V-seam, 0.20 inch
	112.621	V-seam, 0.24 inch
	112.623	V-seam, 0.32 inch
	112.624	V-seam, 0.39 inch
	112.630	Fillet weld, 0.20 inch (a = 0.14 inch)
	112.625	Fillet weld, 0.24 inch (a = 0.17 inch)
	112.627	Fillet weld, 0.32 inch (a = 0.22 inch)
	112.628	Fillet weld, 0.39 inch (a = 0.28 inch)
	112.626	Overlap, 0.79 inch

Always at hand in a sturdy, plastic case.

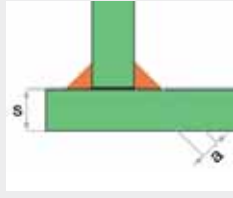


Small but powerful: The easy to handle and low-noise WELDMAX.

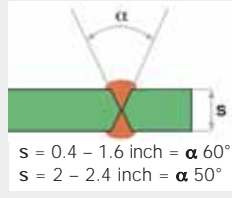


## Possibilities of welding seams

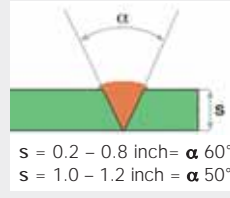
Fillet welding seam



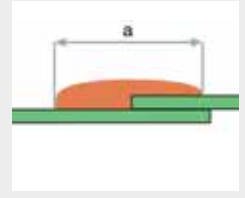
X-seam



V-seam



Overlap










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

## Product overview

Digitally regulated hand extruder

Air heated hand extruder

Compact hand extruder

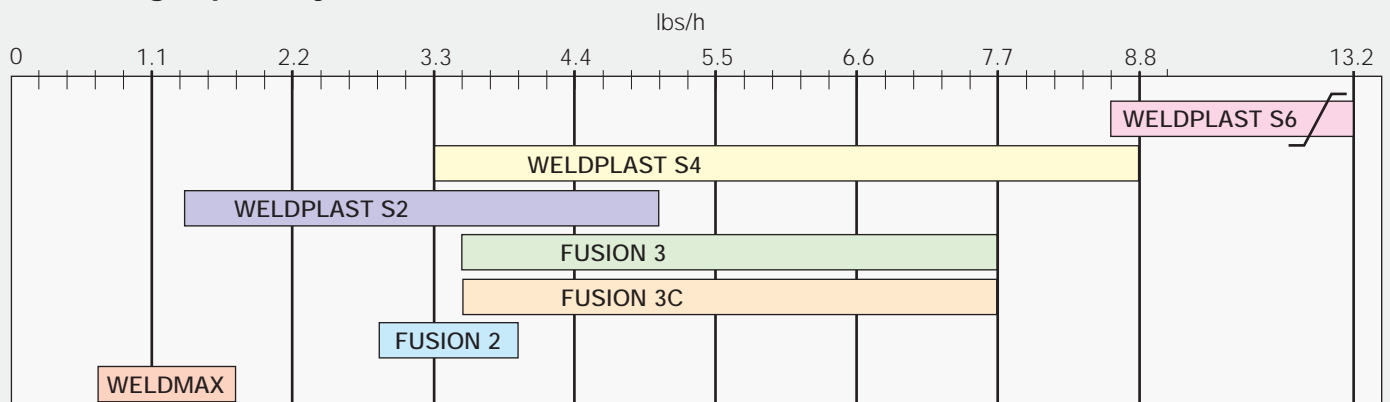
							
Device type	WELDPLAST S6	WELDPLAST S4	WELDPLAST S2	FUSION 3	FUSION 3C	FUSION 2	WELDMAX
Discharge (HDPE) lbs/h	8.6 – 13.2	3.3 – 8.8	1.3 – 5.1	3.5 – 7.7	3.5 – 7.7	2.9 – 4	0.7 – 1.8
Material	PE, PP	PE, PP	PE, PP, PVC	PE, PP	PE, PP	PE, PP	HD-PE, PP, PVDF
Wall thickness inch	0.59 – 1.57	0.32 – 1.36	0.16 – 0.79	0.32 – 0.98	0.32 – 0.98	0.24 – 0.59	0.16 – 0.39
Welding wire inch	∅ 0.16, ∅ 0.2	∅ 0.12, ∅ 0.16	∅ 0.12, ∅ 0.16	∅ 0.12, ∅ 0.16	∅ 0.12, ∅ 0.16	∅ 0.16	∅ 0.16
Weight lbs	30.9	19.2	12.8	15.9	15.2	13.0	8.4
Length inch	32.3	22.1	17.7	27.2	23.2	17.7	17.1
Voltage V~	230	230	230	230	230	230	230 / 120
Screw extruder	yes	yes	yes	yes	yes	yes	no
Container construction	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
Pipeline construction	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
Landfill / civil engineering	✓✓	✓✓	✓	✓✓	✓✓	○	○
Brushless blower	yes	yes	yes	no	no	no	no
Remarks	1	1	1	2	2	2	1

### Comments :

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

✓✓ = very suitable, ✓ = suitable, ○ = unsuitable

## Discharge quantity hand extruders in overview



Hand tool

## TRIAAC PID / TRIAC S

**TRIAAC PID:** Thanks to micro-processor controlled temperature and electronic monitoring, the preferred hand tool for high quality.

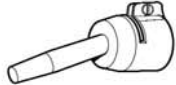
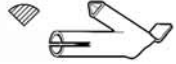
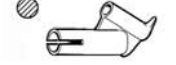




**TRIAAC S:** The reliable, cost-effective and proven hand tool with steplessly controlled temperature range.




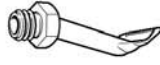





- Adaptor tube with heat protection
- Motor shut-off at minimal carbon level
- Multiple replacement of carbon brushes possible
- Suitable for continuous operation
- Reproducible results thanks to digital display of set and actual temperature (TRIAAC PID)
- Successfully used worldwide under the hardest conditions

Technical Data			
Voltage / Frequency	V~ / Hz	120	50 / 60
Power consumption	W	1600	
Temperature	°F	68 – 1292 (TRIAAC S)	122 – 1112 (TRIAAC PID)
Air flow (68°F)	cfm	8.12	
Pressure static	psi	approx. 0.435	
Size (L x Ø)	inch	13.4 x 3.5, handle Ø 2.2	
Weight	lbs	3.1 (with 118 inch cord)	
Markings	CE, Ⓢ, CCA, ♻		
<b>Article no</b>	TRIAAC PID, push-fit	100.749	with USA plug / UL
	TRIAAC S, push-fit	100.726	with USA plug / UL
	TRIAAC PID, screw-on	100.750	with USA plug / UL
	TRIAAC S, screw-on	100.727	with USA plug / UL
	Further models on request		

### Accessories TRIAC S / PID with push-fit nozzle

	<b>100.303</b>	Tubular nozzle Ø 0.2 inch, for versions with nozzles, push-fit
	<b>105.578</b>	Version extra strong
	<b>106.992</b>	Speed weld nozzle, slips on to tubular nozzle Ø 0.2 inch
	<b>106.993</b>	0.22 inch, profile A
	<b>106.989</b>	0.28 inch, profile B
	<b>106.990</b>	0.12 inch
	<b>106.991</b>	0.16 inch
	<b>106.991</b>	0.2 inch
	<b>106.996</b>	Tacking nozzle, push-fit on tubular nozzle Ø 0.2 inch
	<b>107.348</b>	Tool rest
	<b>107.344</b>	Welding mirror 5.3 inch, push-fit
	<b>100.650</b>	Heating element, 120 V /1600 W for TRIAC PID
	<b>100.702</b>	Heating element, 120 V /1600 W for TRIAC S

### Accessories TRIAC S / PID with screw-on nozzle

	<b>105.622</b>	Tacking nozzle Ø 0.2 inch, screw on
	<b>106.988</b>	Tacking nozzle, screw on
	<b>113.666</b>	Draw nozzle round, Ø 0.12 inch
	<b>113.399</b>	Draw nozzle round, Ø 0.16 inch, with tacking tip, screw-on
	<b>113.876</b>	Draw nozzle round, Ø 0.12 inch
	<b>113.874</b>	Draw nozzle round, Ø 0.16 inch, without tacking tip, screw-on
	<b>113.670</b>	Triangular drawing nozzle, with tacking tip, screw-on, 90 – 0.22 inch
	<b>113.877</b>	Triangular drawing nozzle, without tacking tip, screw-on, 0.22 inch, profile A
	<b>106.986</b>	0.28 inch, profile B
	<b>106.987</b>	0.28 x.22 inch
	<b>126.552</b>	Draw nozzle Ø 0.16 inch, screw-on for Fluoroplastics

TRIAAC PID: Controlled welding temperature for a perfect quality.



**Hand tool**

**HOT JET S**

The most compact hand tool from Leister: HOT JET S' low weight of just 1.3 lbs, incl. cord and slim handle, ensures fatigue-free welding and high power.




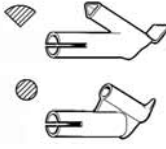


- Ideal for precision work
- Worldwide the smallest hand tool
- Electronic steplessly controlled temperature
- Electronic steplessly controlled air flow
- Electronic heating element protection
- Low noise
- Integrated, flexible tool stand

**Technical Data**

Voltage / Frequency	V~ / Hz	120	50 / 60
Power consumption	W	460	
Temperature	°F	68 – 1122	
Air flow (68°F)	cfm	0.71 – 2.8	
Pressure static	psi	max. 0.232	
Size (L x Ø)	inch	9.3 x 2.8, handle Ø 1.6	
Weight	lbs	1.3 (with 118 inch cord)	
Markings		CE, S, CCA, □	

**Article no** 100.859 with USA plug (UL)  
Further models on request

**Accessories HOT JET S**

	<b>107.144</b>	Tubular nozzle Ø 0.2 inch, push-fit	
	<b>106.992</b>	Speed weld nozzle, fits on to tubular nozzle Ø 0.2 inch	
	<b>106.993</b>		0.22 inch, profile A
	<b>106.989</b>		0.28 inch, profile B
	<b>106.990</b>		0.12 inch
	<b>106.996</b>	Tacking nozzle, push-fit on tubular nozzle Ø 0.2 inch	
	<b>103.607</b>	Heating element, 120 V / 435 W	

*HOT JET S in use for stitch welding.*



## Hot air blower

# ELECTRON

The powerful, and yet small and versatile Leister ELECTRON is a hand tool, perfect for the specialist.




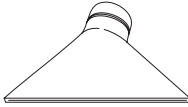
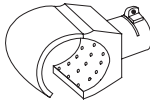



- For heating and shaping plastics
- Powerful
- Compact
- Robust

### Technical Data

Voltage / Frequency	V~ / Hz	120	50 / 60
Power consumption	W	2700	
Temperature	°F	68 – 1202	
Air flow (68°F)	cfm	11.3, manual air slide	
Pressure static	psi	0.435 (3000 Pa)	
Size (L × Ø)	inch	12.6 × 3.7, handle Ø 2.5	
Weight	lbs	3.3 (with 118 inch cord)	
Markings		CE, S, CCA, R	

**Article no** 107.791 without plug  
Further models on request

### Accessories ELECTRON

	107.258	Wide slot nozzle 2.76 × 0.39 inch, push-fit
	107.270	Wide slot nozzle 5.91 x 0.47 inch, push-fit
	107.331	Folding reflector 2.76 x 2.76 inch, push-fit
	107.346	Welding mirror 10.6 inch, push-fit
	107.348	Tool rest
	103.588	Heating element, 120 V / 435 W

*Heating a hex bolt before plunging.*



Hot air blower

# HOTWIND S

Weighting just 7 lbs this is the flexible bench device. Combined with the high maximum temperature of up to 1472°F, HOTWIND S can be used in a variety of ways.



- Ideal for warming, heating, shaping and drying
- Heating power steplessly adjustable with potentiometer
- Integrated device and heating element protection
- Manual air slider, extendable handle
- Extremely smooth-running
- Also suitable for tempering furnaces

Technical Data			
Voltage / Frequency	V~ / Hz	120	50 / 60
Power consumption	W	2300	
Max. air outlet temperature	°F	1202	
Max. air flow (68°F)	cfm.	19.42	
Pressure static	psi	0.029	
Weight	lbs	7.06 (with 118 inch cord)	
Markings		CE, S, CCA, R	
<b>Article no</b>	102.609	without plug	
	Further models on request		

### Accessories HOTWIND S

	107.260	Wide slot nozzle, push-fit (a × b)
	107.259	3.35 × 0.59 inch
	105.977	5.91 × 0.47 inch
	107.263	7.87 × 0.35 inch
	107.262	9.84 × 0.47 inch
	105.992	11.8 × 0.16 inch
105.991	15.7 × 0.16 inch	
	125.317	Flange connector, push-fit
		a = 3.54 inch
	107.335	Sieve reflector, push-fit
		Ø 5.91 inch
	107.248	Stainless steel filter,
		push-fit on air intake
	102.569	Heating element, 120 V / 2200 W

The HOTWIND S is exceptionally suited for drying and firing-in of color on plastic parts.



## Hand tool

### DIODE PID / DIODE S

**DIODE PID:** For high quality demands placed on welding work. In this device, the electronics control the welding temperature.

**DIODE S:** The perfect combination of ease of use and performance. With continuously variable welding temperature.




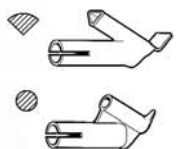
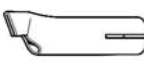


- Temperature electronically regulated and digitally displayed (DIODE PID)
- Electronic heating element protection
- Adaptor tube with heat protection
- Suitable for mobile assembling applications when connected to the MINOR blower (see pg. 20)
- Operation with MINOR blower (see pg. 20), ROBUST (see pg. 21) or compressed air

#### Technical Data







Voltage/ Frequency	V~ / Hz	120	50 / 60
Power consumption	W	1600	
Temperature	° F	68 – 1112	
Min. air flow (68° F)	cfm	1.4	
Size (L x Ø)	inch	10.4 x 2.24, handle Ø 1.57	
Weight	lbs	2.5 (with 118" cord / 118" air hose)	
Markings		CE, (S), CCA, (R)	

<b>Article no</b>	DIODE PID, push-fit	101.311	with USA plug
	DIODE S, push-fit	101.291	with USA plug
	DIODE S, screw-on	101.292	with USA plug
	Further models on request		

#### Accessories DIODE PID / DIODE S with push-fit nozzle

	<b>100.303</b>	Tubular nozzle Ø 0.2 inch, for versions with nozzles, push-fit
	<b>105.578</b>	Version extra strong
	<b>106.992</b>	Speed weld nozzle, slips on to tubular nozzle Ø 0.2 inch 0.22 inch, profile A 0.28 inch profile B
	<b>106.993</b>	
	<b>106.989</b>	
	<b>106.990</b> <b>106.991</b>	
	<b>106.996</b>	Tacking nozzle, push-fit on tubular nozzle Ø 0.2 inch
	<b>107.348</b>	Tool rest
	<b>100.650</b>	Heating element for DIODE PID, 120 V / 1600 W
	<b>100.702</b>	Heating element for DIODE S, 120 V / 1600W

#### Accessories DIODE PID / DIODE S with screw-on nozzle

	<b>105.622</b>	Tacking nozzle Ø 0.2 inch, screw on
	<b>106.988</b>	Tacking nozzle, screw on
	<b>113.666</b>	Draw nozzle round, Ø 0.12 inch Draw nozzle round, Ø 0.16 inch, with tacking tip, screw-on
	<b>113.399</b>	
	<b>113.876</b>	Draw nozzle round, Ø 0.12 inch Draw nozzle round, Ø 0.16 inch, without tacking tip, screw-on
	<b>113.874</b>	
	<b>113.670</b>	
	<b>113.877</b>	Triangular drawing nozzle, with tacking tip, screw-on, 90 – 0.22 inch Triangular drawing nozzle, without tacking tip, screw-on, 0.22 inch, profile A 0.28 inch, profile B
	<b>106.986</b>	
	<b>106.987</b>	
	<b>126.552</b>	Draw nozzle Ø 0.16 inch, screw-on for Fluoroplastics

Comfortable wire welding with the powerful, light DIODE PID.



**Hand tool**

**WELDING PEN R / WELDING PEN S**

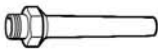







**WELDING PEN R:** The air intake is via a separate blower. This allows the WELDING PEN to reach the most inaccessible places. With digitally controlled and displayed welding temperature indicator.

**WELDING PEN S:** Here, the welding temperature is controlled by a rotary switch.

*The rotating hose adapter on the WELDING PEN facilitates the work.*



**Accessories WELDING PEN R / WELDING PEN S**

	<b>105.622</b>	Tacking nozzle $\varnothing$ 0.2inch, screw on
	<b>106.988</b>	Tacking nozzle, screw on
	<b>113.666</b>	Draw nozzle round, $\varnothing$ 0.12 inch
	<b>113.399</b>	Draw nozzle round, $\varnothing$ 0.16 inch, with tacking tip, screw-on
	<b>113.876</b>	Draw nozzle round, $\varnothing$ 0.12 inch
	<b>113.874</b>	Draw nozzle round, $\varnothing$ 0.16 inch without tacking tip, screw-on
	<b>113.670</b>	Triangular drawing nozzle, with tacking-tip, screw-on, 90 – 0.22 inch
	<b>113.877</b>	Triangular drawing nozzle, without tacking tip, screw-on, 0.22 inch, profile A
	<b>106.986</b>	0.28 inch, profile B
	<b>106.987</b>	0.28 x 0.22 inch
	<b>126.552</b>	Draw nozzle $\varnothing$ 0.16 inch, screw-on for Fluoroplastics
	<b>127.726</b>	Angular adapter for nozzle, screw-on
	<b>127.727</b>	30° 45°
	<b>113.597</b>	Heating element for WELDING PEN R and WELDING PEN S, 120 V / 600 W

- Worldwide the smallest hand tool with digital display of set and actual temperature (WELDING PEN R)
- Non-fatiguing work thanks to the rotating air hose
- Electronic heating element protection
- Cooled heating element tube
- Exact temperature control thanks to micro processor (WELDING PEN R)
- Operated with ROBUST blower (see pg. 21) or compressed air

*Rod welding using the compact, powerful WELDING PEN R.*



**Technical Data**

Voltage/ Frequency	V- / Hz	120	50 / 60
Power consumption	W	600	
Temperature	°F	68 – 1112	
Min. air flow (68° F)	cfm	1.4 (WELDING PEN R)	
Size (L x $\varnothing$ )	inch	10.6 x 1.7, handle $\varnothing$ 1.3	
Weight	lbs	2.2 (with 118 inch cord /air hose and Y-connection)	
Markings		CE, S, CCA, R	

<b>Article no</b>	WELDING PEN R, screw-on:	114.576	with USA plug
	WELDING PEN S, screw-on:	113.708	with USA plug
	Further models on request		

**Hand tool**

**LABOR S**

Small but scrappy: The LABOR S is a jack of all trades. It can be used to weld even difficult to access locations perfectly. It causes almost no fatigue, even for small hands.


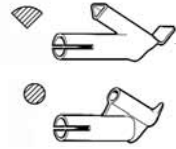




- Temperature adjustment via rotary knob
- Very small and light device
- Ideal for pull welding and stitching
- Air supply with ROBUST blower, MINOR or compressed air
- Ideal for mobile use when coupled with MINOR blower
- Wide range of accessories

Technical Data			
Voltage / Frequency	V - / Hz	120	50 / 60
Power consumption	W	600 / 700	
Temperature	°F	68 - 1112	
Air flow (68° F)	cfm	2.8 - 12.25	
Size (L x Ø)	inch	7.1, handle Ø 1.57	
Weight	lbs	0.33 (without air hose and cord)	
Markings		CE, CCA, □	

Article no			
LABOR with connection box	120 V / 600 W	101.721	with USA plug Air hose 118 inch, UL
LABOR with MINOR blower	120 V / 700 W	101.755	with USA plug Air hose 59 inch
Further models on request			

**Accessories LABOR S**

	<b>107.144</b>	Tubular nozzle Ø 0.2 inch, push-fit
	<b>106.992</b>	Speed welding nozzle, push-fit on tubular nozzle Ø 0.2 inch 0.22 inch, Profile A 0.28 inch, Profile B
	<b>106.989</b>	
	<b>106.990</b>	
	<b>106.991</b>	
	<b>106.996</b>	Tacking nozzle, push-fit on tubular nozzle Ø 0.2 inch
	<b>101.643</b>	Heating element, 120 V / 600 W

Welding with the quick-weld nozzle.



LABOR S coupled with the MINOR as an external air supply.



Connection to air supply with the connection box.





▲ Pipe constructions made of PE for thermal energy systems, Switzerland.

▼ Containers made of PP, Switzerland.



## Blower

### MINOR

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



- Light und compact
- Powerful
- Mobile air supply for the hand unit DIODE PID / S or LABOR S
- Also ideal for work on construction sites

#### Technical Data

Voltage	V~	120
Power consumption	W	100
Frequency	Hz	50 / 60
Air flow (68°F)	cfm	14.1
Pressure static	psi	0.06
Air outlet (external)	inch	0.6
Size (L x Ø)	inch	9.8 x 3.7, handle Ø 2.5
Weight	lbs	2.5 (with 118 inch cord)
Markings		CE, S, CCA, □

**Article no** 108.749 with USA plug  
Further models on request



MINOR Blower with DIODE PID.

Blower MINOR as air supply for the DIODE PID.



## Blower

# ROBUST

Versatile and operable at high ambient temperature up to 140°F. Despite its small dimensions, ROBUST is a real powerhouse. It offers great flexibility thanks to its extensive range of accessories.




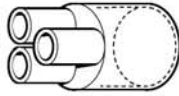
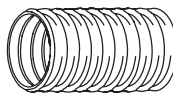
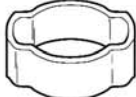
- Compact construction – high performance
- Sound-suppressed
- Can be fitted in every position
- As air supplier for 3 DIODEN PID / S,  
1 WELDING PEN R / S or 3 LABOR S

### Technical Data

Voltage	V~	120
Power consumption	W	250
Frequency	Hz	50 / 60
Air flow (68°F)	cfm	42 / 46
Pressure static	psi	1.16 / 1.52
Ambient temperature	°F	< 140
Protection type (IEC 60529)		IP 54
Intake opening (outside)	inch	Ø 1.5
Outlet opening (outside)	inch	Ø 1.5
Weight	lbs	17.6 (with 118 inch cord)
Size (L x W x H)	inch	10.4 x 8.7 x 8.7
Markings		CE, ⊕

**Article no** 103.434 with condensator, without cable  
Further models on request

### Accessories ROBUST

	<b>107.354</b>	Stainless steel filter push-fit on air intaker
	<b>107.281</b>	Hose connection adaptor (Ø 1.5 inch) 3 air outlets (Ø 0.55 inch)
	<b>113.859</b>	Air hose Ø 0.55 inch
	<b>101.031</b>	Hose clip for Ø 0.55 inch air hose

Blower ROBUST as air supply for the WELDING PEN.





## Welding rods

Article		packaging unit (lbs)
<b>Welding accessories PE</b>		
104.283	Welding rod HD-PE, profile A, black	6.6
104.294	Welding rod HD-PE, profile A, white	6.6
104.284	Welding rod HD-PE, profile B, black	11
104.299	Welding rod HD-PE, profile B, white	11
106.650	Welding rod HD-PE, 0.32"x 0.08", white	2.2
104.300	Welding rod LD-PE, profile A, black	6.6
<b>Welding accessories PP</b>		
104.287	Welding rod PP, profile A, grey/beige	6.6
104.301	Welding rod PP, profile A, black	6.6
104.288	Welding rod PP, profile B, grey/beige	11
126.356	Welding rod PP, 0.32"x 0.08", natural	2.2
<b>Welding accessories PVC</b>		
104.296	Welding rod PVC-U (hard), profile A, transparent	6.6
104.278	Welding rod PVC-U (hard), profile A, grey	6.6
106.641	Welding rod PVC-U, profile A, brown	6.6
104.280	Welding rod PVC-U (hard), profile B, brown	11
104.279	Welding rod PVC-U (hard), profile B, grey	11
104.302	Welding rod PVC-P (soft), profile A, transparent	6.6
<b>Welding accessories ABS</b>		
104.295	Welding rod ABS, profile A, white	11
113.587	Welding rod ABS, profile A, black	6.6
107.027	Welding band ABS, 0.32"x 0.08", white	2.2

Article		packaging unit (lbs)
<b>Welding accessories div.</b>		
104.297	Welding rod PA, profile A, black	6.6
104.298	Welding rod PC, profile A, transparent	6.6
104.313	Welding rod PC / ABS / ALPHA (Honda), profile A, black	6.6
104.311	Welding rod PC / PBTP (Xenoy), profile A, grey	6.6
104.309	Welding rod PS, profile A, white	6.6
104.308	Welding rod PUR, profile A, black	6.6
106.654	Welding rod Xenoy, 0.32"x 0.08", grey	2.2
106.642	Welding rod PPs, profile A, grey, flame resistant	6.6
104.304	Welding rod PVDF, profile A, natural	6.6
104.303	Welding rod POM, profile A, natural	6.6
<b>Test bundles</b>		
107.036	Test bundle bodywork welding rods consisting of respectively 14.6 inch long profile A pieces single marked 6x HD-PE, 6x PP, 6x PA, 6x PC, 6x ABS, 6x PCABS / ALPHA Honda, 6x PC / PBTP / Xenoy	
107.037	Test bundle standard, consisting of respectively 14.6 inch long profile A pieces, single marked 5x PVC-U, 5x PVC-P, 5x PP, 5x ABS, 5x HD-PE, 3x PC, 3x PA, 3x POM, 3x LD-PE, 3x PC / ABS / ALPHA Honda, 3x PC / PBTP / Xenoy	
107.040	Test bundle welding band, consisting of 14.6 inch long pieces, single marked 9x HD-PE 0.32"x 0.08" white, 9x PP, 0.32"x 0.08" natural, 9x ABS, 0.32"x 0.08" white, 9x PC / PBTP / Xenoy grey	

## Profile sizes

	<b>Profile A</b>	Size in inch
	<b>Profile B</b>	



Flow-surf center, USA

Silo containers made of PP, South Africa



Ship constructed completely of HD-PE, Turkey



Containers made of PP for galvanic processes, Italy





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

Specifications are subject to change without prior notice

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