

LEISTER

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 micro-systems. 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 micro-systems technology or in soldering electronic components.

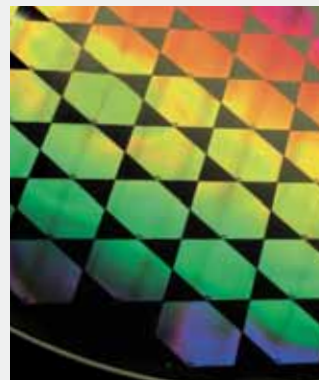
LEISTER



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.

13 meter high silos was made of HDPE, Spain (Photo: Colasit)



Digitally regulated hand extruder

WELDPLAST S6

When output volume counts, the 6 kg/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 6 kg output per hour
- Highest possible preheating capacity
- Flexible adjustable handle
- Maintenance-free blower
- Multifunctional display
- 450 l/m air flow

Technical Data

Voltage / Frequency	V- / Hz	230	50 / 60
Power consumption	W	5300	
Material		PE / PP	
Welding rod	mm	Ø 4 or Ø 5	
Output	kg/h	3.9 – 6.0	
Size (L x W x H)	mm	821 x 116 x 240	
Weight	kg	14 (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

	119.217	Welding shoe complete
	119.222	Blank 50 x 40 x 38 mm
		Blank 70 x 50 x 47.5 mm
	119.190	Overlap 35 mm
	135.901	Overlap 40 mm
	119.197	V-seam 20 and X-seam 35/40 mm
	119.198	V-seam 25 mm
	119.199	V-seam 30 mm
	119.164	Fillet weld 20 mm (a = 14 mm)
	119.165	Fillet weld 25 mm (a = 17.5 mm)
	119.166	Fillet weld 30 mm (a = 21 mm)
	117.055	Preheating nozzle large, 35 mm
	136.859	Preheating nozzle large XL, 50 mm
	117.790	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 4 kg/h is possible thanks to its powerful drive system.



Perfectly stowed
in plastic case.

Accessories WELDPLAST S4

	119.217	Welding shoe complete
	119.222	Blank 50 × 40 × 38 mm
	119.194	Blank 70 × 50 × 47.5 mm
	119.195	V-seam 8/10 and X-seam 15/20 mm
	119.196	V-seam 12 and X-seam 25 mm
	119.197	V-seam 15 and X-seam 30 mm
	119.198	V-seam 20 and X-seam 35/40 mm
	119.161	V-seam 25 mm
	119.163	Fillet weld 8/10 mm (a = 7 mm)
	119.164	Fillet weld 15 mm (a = 10.5 mm)
	119.165	Fillet weld 20 mm (a = 14 mm)
	119.190	Fillet weld 25 mm (a = 17.5 mm)
	135.901	Overlap 35 mm
	129.009	Overlap 40 mm
	129.011	Corner, short, Ø 20 mm
	117.064	Corner, long, Ø 14 mm
	117.065	Side hot air guide
	117.053	Top hot air guide
	117.518	Preheating nozzle small, 20 mm
	117.055	Preheating nozzle middle, 25 mm
	118.804	Preheating nozzle large, 35 mm
	136.231	Tool rest

- 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 450 l/min
- Both sided twist-free wire intake
- Maintenance free blower

The powerful WELDPLAST S4 in use.



Technical Data

Voltage / Frequency	V- / Hz	230	50 / 60
Power consumption	W	3680	
Material		PE / PP	
Welding rod	mm	Ø 3 or Ø 4	
Output	kg/h	1.5 – 4.0	
Size (L × W × H)	mm	560 × 110 × 300	
Weight	kg	8.7 (without cord)	
Marking		CE, (S), CCA, ⊕	

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

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	mm	Ø 3 or Ø 4	
Output Ø 3 mm	kg/h	PVC-U: 0.9–1.7 PE: 0.6–1.3 PP: 0.5–1.2	
Output Ø 4 mm	kg/h	PVC-U: 1.5–2.7 PE: 1.0–2.3 PP: 0.9–2.0	
Size (L × W × H)	mm	450 × 98 × 260	
Weight	kg	5.8 (without cord)	
Markings		CE, CCA, ⊕	





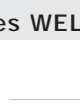


Article no	127.215	Standard version with Euro plug
	135.724	PVC version with Euro plug

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 50 × 30 × 38 mm
	118.888	V-Seam 5/6 and X-seam 10/12 mm
	118.889	V-Seam 8/10 and X-seam 15/20 mm
	119.202	V-Seam 12 and X-seam 25 mm
	119.203	V-Seam 15 and X-seam 30 mm
	119.204	V-Seam 20 and X-seam 35/40 mm
	118.887	Fillet weld 5/6 mm (a = 4.2 mm)
	118.885	Fillet weld 8/10 mm (a = 7 mm)
	119.139	Fillet weld 15 mm (a = 10.5)
	119.140	Fillet weld 20 mm (a = 14 mm)
	129.008	Corner, short, Ø 20 mm
	129.010	Corner, long, Ø 14 mm

Accessories WELDPLAST S2 PVC

	119.217	Welding shoe complete
	119.193	Blank 50 × 40 × 38 mm
	119.194	V-seam 8/10 and X-seam 15/20 mm
	119.195	V-seam 5/6 and X-seam 10/12 mm
	119.196	V-seam 12 and X-seam 25 mm
	119.159	V-seam 15 and X-seam 30 mm
	119.161	Fillet weld 5/6 mm (a = 7 mm)
	119.161	Fillet weld 8/10 mm (a = 7 mm)
	119.163	Fillet weld 15 mm (a = 10.5 mm)
	119.164	Fillet weld 20 mm (a = 14 mm)
	129.009	Corner, short, Ø 20 mm
	129.011	Corner, long, Ø 14 mm
	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.



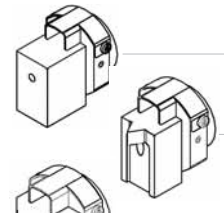
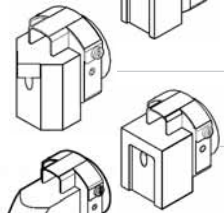

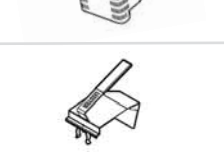
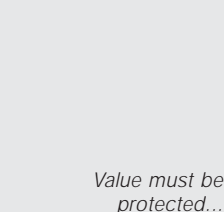



- With 450 mm the shortest in its performance class!
- The motor start-up protection prevents cold start
- Simple operation
- Both sided twist-free wire intake
- 360° rotating welding shoe
- Integrated electronics for stepless adjustment of the preheating temperature and output quantity

Technical Data

Voltage / Frequency	V- / Hz	230	50 / 60
Power consumption	W	2800	
Material		PE/PP	
Temperature	°C	up to 340	
Plastification temperature	°C	up to 300	
Welding rod	Ø mm	4	
Output PE	kg/h	1.3 – 1.8	
Size (L × W × H)	mm	450 × 98 × 225 (without welding shoe)	
Weight	kg	5.9 (with 3 m cord)	
Markings		CE, S, CCA, R	

Article no 119.200 with Euro plug

Accessories FUSION 2

	118.094	Welding shoe complete
	119.214	Blank 50 × 30 × 38 m Blank 70 × 50 × 47.5 mm
	118.888	V-seam 5/6 and X-seam 10/12 mm
	118.889	V-seam 8/10 and X-seam 15/20 mm
	119.202	V-seam 12 and X-seam 25 mm
	119.203	V-seam 15 and X-seam 30 mm
	118.887	Fillet weld 5/6 mm (a = 4.2 mm)
	118.885	Fillet weld 8/10 mm (a = 7 mm)
	119.139	Fillet weld 15 mm (a = 10.5)
	118.890	Overlap 25 mm
	119.185	Overlap 35 mm
	129.008	Corner, short Ø 20 mm
	129.010	Corner, long, Ø 14 mm
	135.082	Air filter
	136.231	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 3.5 kg/hr.



- 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.

Accessories FUSION 3 / FUSION 3C

	118.094	Welding shoe complete
	119.214	Blank 50 × 30 × 38 mm
	118.889	Blank 70 × 50 × 47.5 mm
	119.202	V-seam 8/10 and X-seam 15/20 mm
	119.203	V-seam 12 and X-seam 25 mm
	119.204	V-seam 15 and X-seam 30 mm
	119.205	V-seam 20 and X-seam 35/40 mm
	119.205	V-seam 25 mm
	118.885	Fillet weld 8/10 mm (a = 7 mm)
	119.139	Fillet weld 15 mm (a = 10.5 mm)
	119.140	Fillet weld 20 mm (a = 14 mm)
	119.141	Fillet weld 25 mm (a = 17.5 mm)
	118.890	Overlap 25 mm
	119.185	Overlap 35 mm
	129.008	Corner, short, Ø 20 mm
	129.010	Corner, long, Ø 14 mm
	135.082	Air filter FUSION 3C
	136.231	Pre-heat reflector
	118.804	Tool rest

Plenty of room for accessories.



Technical Data		FUSION 3		FUSION 3C	
Voltage / Frequency	V- / Hz	230	50 / 60	230	50 / 60
Power consumption	W	3500		2800	
Material		PE / PP		PE / PP	
Welding rod	Ø mm	3 or 4		3 or 4	
Output (HDPE Ø 4)	kg/h	1.6 – 3.5		1.6 – 3.5	
Size (L × W × H)	mm	670 × 90 × 180		588 × 98 × 225	
Markings		CE, S, CCA, R			
Article no	FUSION 3	118.300	with Euro plug		
	FUSION 3C	123.866	with Euro plug		



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	230	50 / 60
Power consumption	W	2200	
Material		PE / PP / PVDF / PA (other materials on demand)	
Welding rod	mm	Ø 0.3	
Output (HDPE Ø 4)	kg/h	0.3 – 0.8	
Size (L × W × H)	mm	443 × 94 × 255, handle Ø 57	
Weight	kg	3.8 (without cord)	
Markings		CE, S, CCA, □	
Article no	110.272	with Euro plug	

Accessories WELDMAX

Accessories	Article no	Description
	112.830	Welding shoe complete Blank
	112.629	V-seam, 5 mm
	112.621	V-seam, 6 mm
	112.623	V-seam, 8 mm
	112.624	V-seam, 10 mm
	112.630	Fillet weld, 5 mm (a = 3.5 mm)
	112.625	Fillet weld, 6 mm (a = 4.2 mm)
	112.627	Fillet weld, 8 mm (a = 5.6 mm)
	112.628	Fillet weld, 10 mm (a = 7 mm)
	112.626	Overlap, 20 mm

Always at hand in a sturdy, plastic case.

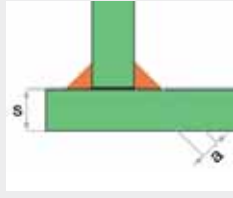


Small but powerful: The easy to handle and low-noise WELDMAX.

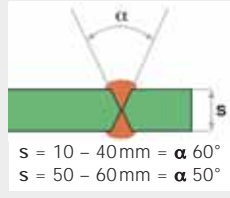


Possibilities of welding seams

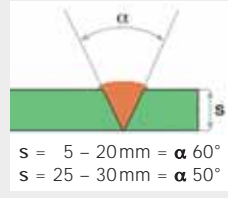
Fillet welding seam



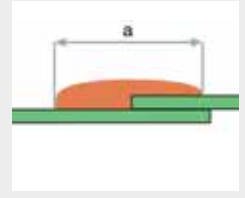
X-seam



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

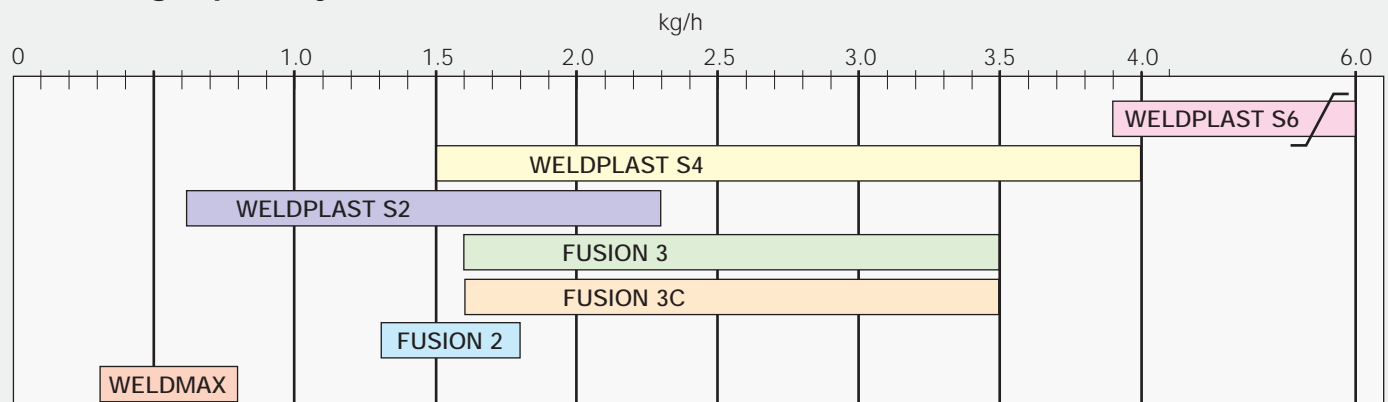
							
Device type	WELDPLAST S6	WELDPLAST S4	WELDPLAST S2	FUSION 3	FUSION 3C	FUSION 2	WELDMAX
Discharge (HDPE) kg/h	3.9 – 6	1.5 – 4	0.6 – 2.3	1.6 – 3.5	1.6 – 3.5	1.3 – 1.8	0.3 – 0.8
Material	PE, PP	PE, PP	PE, PP, PVC	PE, PP	PE, PP	PE, PP	HD-PE, PP, PVDF
Wall thickness mm	15 – 40	8 – 35	4 – 20	8 – 25	8 – 25	6 – 15	4 – 10
Welding wire mm	∅ 4, ∅ 5	∅ 3, ∅ 4	∅ 3, ∅ 4	∅ 3 and ∅ 4	∅ 3 and ∅ 4	∅ 4	∅ 4
Weight kg	14	8.7	5.8	7.2	6.9	5.9	3.8
Length mm	821	560	450	690	588	450	433
Voltage V~	230	230	230	230	230	230	230
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

TRIAC PID / TRIAC S

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

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



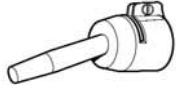
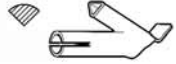
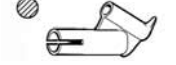






- Adaptor tube with heat protection
- Motor shut-off at minimal carbon level
- Multiple replacement of carbon brushes possible
- Suitable for continuous operation
- Reproducible results thanks to digital display of set and actual temperature (TRIAC PID)
- Successfully used worldwide under the hardest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

Technical Data


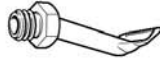






Voltage / Frequency	V- / Hz	230	50 / 60
Power consumption	W	1600	
Temperature	°C	20 – 700 (TRIAC S)	50 – 600 (TRIAC PID)
Air flow (20°C)	l/min	230	
Pressure static	Pa	approx. 3000 (30 mbar)	
Size (L x Ø)	mm	340 x 90, handle Ø 56	
Weight	kg	1.4 (with 3 m cord)	
Markings		CE, S, CCA, R	

Article no	TRIAC PID, push-fit	100.741	with Euro plug
	TRIAC S, push-fit	100.705	with Euro plug
	TRIAC PID, screw-on	100.742	with Euro plug
	TRIAC S, screw-on	100.706	with Euro plug
	Further models on request		

Accessories TRIAC S / PID with push-fit nozzle

	100.303	Tubular nozzle Ø 5 mm, for versions with nozzles, push-fit
	105.578	Version extra strong
	106.992	Speed weld nozzle, slips on to tubular nozzle Ø 5 mm
	106.993	5.7 mm, profile A
	106.989	7 mm, profile B
	106.989	3 mm
	106.990	4 mm
	106.991	5 mm
	106.996	Tacking nozzle, push-fit on tubular nozzle Ø 5 mm
	107.348	Tool rest
	107.344	Welding mirror 135 mm, push-on
	100.296	Heating element, 230 V /1550 W for TRIAC PID
	100.689	Heating element, 230 V /1550 W for TRIAC S

Accessories TRIAC S / PID with screw-on nozzle

	105.622	Tacking nozzle Ø 5 mm, screw on
	106.988	Tacking nozzle, screw on
	113.666	Draw nozzle round, Ø 3 mm
	113.399	Draw nozzle round, Ø 4 mm, with tacking tip, screw-on
	113.876	Draw nozzle round, Ø 3 mm
	113.874	Draw nozzle round, Ø 4 mm, without tacking tip, screw-on
	113.670	Triangular drawing nozzle, with tacking tip, screw-on, 90 – 5.7 mm
	113.877	Triangular drawing nozzle, without tacking tip, screw-on, 5.7 mm, profile A
	106.986	7 mm, profile B
	106.987	7 x 5.5 mm
	126.552	Draw nozzle Ø 4 mm, screw-on for Fluoroplastics

TRIAC 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 600 grams, incl. cord and slim handle, ensures fatigue-free welding and high power.




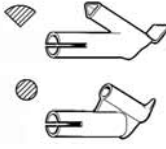


- Ideal for precision work
- Worldwide the smallest hand tool
- Electronic steplessly controlled temperature
- Electronic steplessly controlled air flow
- Electronic heating element protection
- Low noise
- Integrated, flexible tool stand

Technical Data

Voltage / Frequency	V~ / Hz	230	50 / 60
Power consumption	W	460	
Temperature	°C	20 – 600	
Air flow (20°C)	l/min	20 – 80	
Pressure static	Pa	max. 1600 (16 mbar)	
Size (L x Ø)	mm	235 x 70, handle Ø 40	
Weight	kg	0.6 (with 3 m cord)	
Markings		CE, S, CCA, □	

Article no 100.648 with Euro plug
Further models on request

Accessories HOT JET S

	107.144	Tubular nozzle Ø 5 mm, push-fit
	106.992	Speed weld nozzle, fits on to tubular nozzle Ø 5 mm
	106.993	
	106.989	7 mm, profile B
	106.990	3 mm
106.991	4 mm	
106.991	5 mm	
	106.996	Tacking nozzle, push-fit on tubular nozzle Ø 5 mm
	100.818	Heating element, 230 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	230	50 / 60
Power consumption	W	3400	
Temperature	°C	20 – 650	
Air flow (20°C)	l/min	320, manual air slide	
Pressure static	Pa	3000 (30 mbar)	
Size (L × Ø)	mm	320 × 95, handle Ø 64	
Weight	kg	1.5 (with 3 m cord)	
Markings		CE, S, CCA, R	

Article no 107.781 with Euro plug
Further models on request

Accessories ELECTRON

	107.258	Wide slot nozzle 70 × 10 mm, push-fit
	107.270	Wide slot nozzle 150 × 12 mm, push-fit
	107.331	Folding reflector 72 × 70 mm, push-fit
	107.346	Welding mirror 270 mm, push-fit
	107.348	Tool rest
	113.269	Heating element, 230 V / 3300 W

Heating a hex bolt before plunging.



Hot air blower

HOTWIND S

Weighting just 3.2 kg this is the flexible bench device. Combined with the high maximum temperature of up to 800°C, 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	230	50 / 60
Power consumption	W	3700	
Max. air outlet temperature	°C	650	
Max. air flow (20°C)	l/min.	550	
Pressure static	Pa	200 (2 mbar)	
Weight	kg	3.2 (with 3 m cord)	
Markings		CE, S, CCA, □	

Article no 102.581 with Euro plug
Further models on request

Accessories HOTWIND S

	107.260	Wide slot nozzle, push-fit (a × b)
	107.259	85 × 15 mm
	105.977	150 × 12 mm
	107.263	200 × 9 mm
	107.262	250 × 12 mm
	105.992	300 × 4 mm
105.991	400 × 4 mm	
	125.317	Flange connector, push-fit
		a = 90 mm
	107.335	Sieve reflector, push-fit
		Ø 150 mm
	107.248	Stainless steel filter,
		push-fit on air intake
	102.362	Heating element, 230 V / 3600 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.




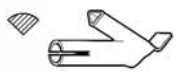
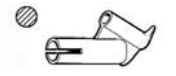
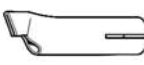


- Temperature electronically regulated and digitally displayed (DIODE PID)
- Electronic heating element protection
- Adaptor tube with heat protection
- Suitable for mobile assembling applications when connected to the MINOR blower (see pg. 20)
- Operation with MINOR blower (see pg. 20), ROBUST (see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

Technical Data









Voltage/ Frequency	V~ / Hz	230	50 / 60
Power consumption	W	1600	
Temperature	°C	20 – 600	
Min. air flow (20° C)	l/min	40	
Size (L x Ø)	mm	265 x 57, handle Ø 40	
Weight	kg	1.15 (with 3 m cord / 3 m air hose)	
Markings		CE, (S), CCA, (R)	

Article no	DIODE PID, push-fit	101.303	with Euro plug
	DIODE S, push-fit	101.281	with Euro plug
	DIODE PID, screw-on	101.304	with Euro plug
	DIODE S, screw-on	101.282	with Euro plug

Accessories DIODE PID / DIODE S with push-fit nozzle

	100.303	Tubular nozzle Ø 5 mm, for versions with nozzles, push-fit
	105.578	Version extra strong
	106.992 106.993	Speed weld nozzle, slips on to tubular nozzle Ø 5 mm 5.7 mm, profile A 7 mm, profile B
	106.989 106.990 106.991	3 mm 4 mm 5 mm
	106.996	Tacking nozzle, push-fit on tubular nozzle Ø 5 mm
	107.348	Tool rest
	100.296 100.689	Heating element for DIODE PID, 230 V / 1550 W Heating element for DIODE S, 230 V / 1550 W

Accessories DIODE PID / DIODE S with screw-on nozzle

	105.622	Tacking nozzle Ø 5 mm, screw on
	106.988	Tacking nozzle, screw on
	113.666 113.399	Draw nozzle round, Ø 3 mm Draw nozzle round, Ø 4 mm, with tacking tip, screw-on
	113.876 113.874	Draw nozzle round, Ø 3 mm Draw nozzle round, Ø 4 mm, without tacking tip, screw-on
	113.670	Triangular drawing nozzle, with tacking tip, screw-on, 90 – 5.7 mm
	113.877 106.986	Triangular drawing nozzle, without tacking tip, screw-on, 5.7 mm, profile A 7 mm, profile B
	106.987	7 x 5.5 mm
	126.552	Draw nozzle Ø 4 mm, 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

	105.622	Tacking nozzle \varnothing 5 mm, screw on
	106.988	Tacking nozzle, screw on
	113.666	Draw nozzle round, \varnothing 3 mm
	113.399	Draw nozzle round, \varnothing 4 mm, with tacking tip, screw-on
	113.876	Draw nozzle round, \varnothing 3 mm
	113.874	Draw nozzle round, \varnothing 4 mm, without tacking tip, screw-on
	113.670	Triangular drawing nozzle, with tacking tip, screw-on, 90 – 5.7 mm
	113.877	Triangular drawing nozzle, without tacking tip, screw-on, 5.7 mm, profile A
	106.986	7 mm, profile B
	106.987	7 x 5.5 mm
	126.552	Draw nozzle \varnothing 4 mm, screw-on for Fluoroplastics
	127.726	Angular adapter for nozzle, screw-on
	127.727	30° 45°
	113.412	Heating element for WELDING PEN R and WELDING PEN S, 230 V / 1000 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

Technical Data

Voltage/ Frequency	V- / Hz	230	50 / 60
Power consumption	W	1000	
Temperature	°C	20 – 600	
Min. air flow (20° C)	l/min	40 (WELDING PEN R)	
Size (L x \varnothing)	mm	270 x 43, handle \varnothing 32	
Weight	kg	1.0 (with 3 m cord /air hose and Y-connection)	
Markings		CE, S, CCA, R	

Article no	WELDING PEN R, screw-on:	114.380	with Euro plug
	WELDING PEN S, screw-on:	113.081	with Euro plug
	Further models on request		

Rod welding using the compact, powerful WELDING PEN R.



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


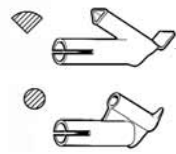


Technical Data

Voltage / Frequency	V - / Hz	230	50 / 60
Power consumption	W	800 / 900	
Temperature	°C	20 – 600	
Min. air flow (20° C)	l/min	80 – 350	
Size (L x Ø)	mm	180, handle Ø 40	
Weight	kg	0.15 (without air hose and cord)	
Markings		CE, (S), CCA, □	

Article no

LABOR with connection box 230 V / 800 W	101.716	with Euro plug Air hose 3 m
LABOR with MINOR blower 230 V / 900 W	101.754	with Euro plug Air hose 1.5m
		Further models on request

Accessories LABOR S

	107.144	Tubular nozzle Ø 5 mm, push-on
	106.992 106.993 106.989 106.990 106.991	Speed welding nozzle, push-fit on tubular nozzle Ø 5 mm 5.7 mm, Profile A 7 mm, Profile B 3 mm 4 mm 5 mm
	106.996	Tacking nozzle, push-fit on tubular nozzle Ø 5 mm
	101.581	Heating element, 230 V / 800 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~	230
Power consumption	W	100
Frequency	Hz	50 / 60
Air flow (20°C)	l/min	400
Pressure static	Pa	4000 (40 mbar)
Air outlet (external)	mm	14.5
Size (L x Ø)	mm	250 x 95, handle Ø 64
Weight	kg	1.15 (with 3 m cord)
Markings		CE, S, CCA, □

Article no 108.747 with Euro 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 60°C. Despite its small dimensions, ROBUST is a real powerhouse. It offers great flexibility thanks to its extensive range of accessories.




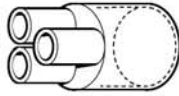
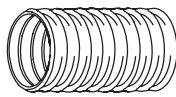

- Compact construction – high performance
- Sound-suppressed
- Can be fitted in every position
- As air supplier for 3 DIODEN PID / S, 1 WELDING PEN R / S or 3 LABOR S

Technical Data

Voltage	V~	230
Power consumption	W	250
Frequency	Hz	50 / 60
Air flow (20°C)	l/min	1200 / 1300
Pressure static	Pa	8000 / 10 500 (80 / 105 mbar)
Ambient temperature	°C	< 60
Protection type (IEC 60529)		IP 54
Intake opening (outside)	mm	Ø 38
Outlet opening (outside)	mm	Ø 38
Weight	kg	8.0 (with 3 m cord)
Size (L x W x H)	mm	255 x 221 x 221
Markings		CE, ⊕

Article no 103.432 with Euro plug
Further models on request

Accessories ROBUST

	107.354	Stainless steel filter push-fit on air intaker
	107.281	Hose connection adaptor (Ø 38 mm) 3 air outlets
	113.859	Air hose Ø 14 mm
	101.031	Hose clip for Ø 14 mm air hose



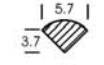
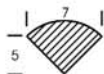


Welding rods

Article		packaging unit (kg)
Welding accessories PE		
104.283	Welding rod HD-PE, profile A, black	3
104.294	Welding rod HD-PE, profile A, white	3
104.284	Welding rod HD-PE, profile B, black	5
104.299	Welding rod HD-PE, profile B, white	5
106.650	Welding rod HD-PE, 8x 2 mm, white	1
104.300	Welding rod LD-PE, profile A, black	3
Welding accessories 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 rod PP, 8x 2 mm, natural	1
Welding accessories 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 accessories ABS		
104.295	Welding rod ABS, profile A, white	5
113.587	Welding rod ABS, profile A, black	3
107.027	Welding band ABS, 8x 2 mm, white	1

Article		packaging unit (kg)
Welding accessories 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
104.311	Welding rod PC / PBTP (Xenoy), profile A, grey	3
104.309	Welding rod PS, profile A, white	3
104.308	Welding rod PUR, profile A, black	3
106.654	Welding rod Xenoy, 8x 2 mm, grey	1
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 bundles		
107.036	Test bundle bodywork welding rods consisting of respectively 37 cm 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 37 cm 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 37 cm long pieces, single marked 9x HD-PE 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	Size in mm
	Profile 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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