

LEISTER

PLASTIC WELDING

Plastic
fabrication
with Leister.

Quality and
precision.





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 50 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.

Plastic welding

We have remained the worldwide market leader in this field for decades. The performance and reliability of our products make us the first choice for welding machines for plastic processing. Leister products are used in roof sealing systems, floor coverings, plastic sheeting, earthworks, hydraulic and tunnel engineering, process equipment manufacturing and for vehicle repair.

Process heat

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

Laser systems

Our innovative solutions for precision plastic welding open up new manufacturing methods. Laser systems are used in automobile production, medical and sensor assembly, microsystems technology or for soldering electronic components. As the technological leader, Leister possesses the knowledge, methods, and patented concepts, which are perfectly suited to fulfil specific customer requirements.

Microsystems

In today's world the smallest structures play a huge roll. To keep our customers ahead of the field in the future, we are developing and producing micromechanical sensors and micro-optical components in our clean rooms today.

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

Leister delivers top quality tools for precision welding.

Precise welding of plastics in plastic fabrication is a MUST. That is the main reason why skilled professionals have relied on Leister products for over 50 years. Leister not only offers a comprehensive range of welding machines and accessories, but also a wealth of plastic processing knowledge. As the worldwide market leader in the hot air plastic welding industry, Leister knows what professionals need to succeed.

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.



- Screw extruder with barrel heater and integrated hot air blower (brushless) for preheating welding seams
- Compact housing design reduces noise and guarantees optimal cooling for the electronics and drive
- Terminal with illuminated graphic display and operating keys suitable for construction sites
- Microprocessor to regulate the welding process and to monitor the tool
- Menu with function programs
- Air flow up to 450 l/min
- Twist-free welding rod feed for 3 mm or 4 mm rod
- Simple rotatable handle
- Complies with DVS (German Welding Association) standards

Technical Data		
Voltage	V~	230
Power consumption	W	3680
Frequency	Hz	50 / 60
Material		PE / PP (PVC on request)
Welding rod	mm	Ø 3 or Ø 4
Output (HDPE Ø 4)	kg/h	2.5 – 4.0
Size (L x W x H)	mm	560 x 110 x 300 (without welding shoe)
Weight	kg	8.7 (without cord)
Marking of conformity		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓛ

Hand extruder

WELDPLAST EC4

World first! The WELDPLAST EC4 hand extruder with two maintenance-free, brushless motors for drive and preheated air. Advanced features and compact design make it an ideal partner for professional work in plastic fabrication and civil engineering.



- Screw extruder with brushless drive, barrel heater and integrated hot air blower (brushless) for preheating welding seams
- Powerful and noise-free servo-drive with integrated electronics
- Compact housing design reduces noise and guarantees optimal cooling for the electronics and drive
- Terminal with illuminated graphic display and operating keys suitable for construction sites
- Microprocessor to regulate the welding process and to monitor the tool
- Menu with function programs
- Air flow up to 450 l/min
- Twist-free welding rod feed for 3 mm or 4 mm rod
- Simple rotatable handle
- Complies with DVS (German Welding Association) standards

Technical Data		
Voltage	V~	230
Power consumption	W	3680
Frequency	Hz	50 / 60
Material		PE / PP (PVC on request)
Welding rod	mm	Ø 3 or Ø 4
Output (HDPE Ø 4)	kg/h	2.5 – 4.0
Size (L x W x H)	mm	560 x 110 x 300 (without welding shoe)
Weight	kg	8.7 (without cord)

Hand extruder

WELDPLAST S6

With an outstanding output of 6 kg per hour, WELDPLAST S6 is Leister's most powerful hand extruder and therefore the "work horse" in plastic fabrication and civil engineering.



- Screw extruder with barrel heater and integrated hot air blower for preheating welding seams
- Compact housing design reduces noise and guarantees optimal cooling for the electronics and drive
- Terminal with illuminated graphic display and operating keys suitable for construction sites
- Microprocessor to regulate the welding process and to monitor the tool
- Menu with function programs
- Air flow up to 450 l/min
- Twist-free welding rod feed for 4 mm or 5 mm rod
- Simple rotatable handle
- Complies with DVS (German Welding Association) standards

Technical Data		
Voltage	V~	400
Power consumption	W	6000
Frequency	Hz	50 / 60
Material		PE / PP
Welding rod	mm	Ø 4 or Ø 5
Output (HDPE Ø 4)	kg/h	3.5 – 6.0
Size (L x W x H)	mm	680 x 110 x 310 (without welding shoe)
Weight	kg	11.5 (without cord)

Hand extruder

FUSION 3

Clever and smart: Despite its simple and symmetrical construction, the FUSION 3 hand extruder achieves an output of up to 3.5 kg/h. A single hot-air blower is sufficient for heating the plastic filler and preheated air.



- Screw extruder with integrated hot air blower for preheating material and welding seam
- Compact and handy
- Integrated electronics for stepless adjustment of the preheating temperature and output quantity
- Electronic drive protection
- Revolvable welding shoe
- Air flow up to 450 l/min
- Twist-free welding rod feed for 3 mm or 4 mm rod

Technical Data		
Voltage	V~	230
Power consumption	W	3500
Frequency	Hz	50 / 60
Material		PE / PP
Welding rod	mm	Ø 3 or Ø 4
Output (HDPE Ø 4)	kg/h	2.0 – 3.5
Size (L x W x H)	mm	670 x 90 x 180 (without welding shoe)
Weight	kg	7.2 (without cord)
Marking of conformity		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class II		Ⓜ

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
- Seperate, stepless temperature control for plastification unit and preheated air
- Complies with DVS (German Welding Association) standards

Technical Data

Voltage	V~	120	200	230
Power consumption	W	1800	2200	2200
Frequency	Hz	50 / 60		
Material		PE / PP		
Welding rod	mm	Ø 4 ± 0.2		
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)		
Marking of conformity		CE		
Approval mark		S		
Certification scheme		CCA		
Protection class II		□		

Hand tool

WELDING PEN R

The latest generation of tools presents itself as extremely handy. Because the air supply comes from a separate blower, the Leister WELDING PEN R reaches into the most inaccessible places. It also displays the welding temperature digitally.



- Worldwide the smallest hand tool with digital display of set and actual temperature
- Fatigue-free working thanks to its ergonomic handle
- Heating element protection
- Cooled heating element tube
- Exact temperature control thanks to micro processor

Technical Data

Voltage	V~	100	120	230
Power consumption	W	450	600	1000
Frequency	Hz	50 / 60		
Temperature	°C	20 – 600		
Min. air flow (20° C)	l/min	40		
Pressure dynamic	Pa	max. 10 ⁵		
Size (L x Ø)	mm	270 x 43, handle Ø 32		
Weight	kg	1.0 (with 3 m cord / air hose and y-connection)		
Marking of conformity		CE		
Approval mark		S		
Certification scheme		CCA		
Protection class II		□		

Hand tool

WELDING PEN S

With the WELDING PEN S from Leister, you can also weld hard-to-access places, as air is supplied via a separate blower.



- Ultra-compact and flexible to use
- Fatigue-free working thanks to its ergonomic handle
- Heating element protection
- Cooled protective tube

Technical Data

Voltage	V~	100	120	230
Power consumption	W	450	600	1000
Frequency	Hz	50 / 60		
Temperature	°C	20 – 600		
Min. air flow (20° C)	l/min	40	50	60
Pressure dynamic	Pa	max. 10 ⁵		
Size (L x Ø)	mm	270 x 43, handle Ø 32		
Weight	kg	1.0 (with 3 m cord / air hose and y-connection)		
Marking of conformity		CE		
Approval mark		S		
Certification scheme		CCA		
Protection class II		□		

Hand tool

DIODE PID

For the highest quality standards, the specialist turns to the Leister DIODE PID. The welding temperature of this tool is electronically controlled.



- Temperature electronically regulated and digitally displayed
- Electronic heating element protection
- Adaptor tube with heat protection
- Push-fit and screw-on nozzles for round and profile welding rods
- Air supply provided by the ROBUST or MINOR blowers
- Suitable for mobile assembling applications when connected to the MINOR blower

Technical Data

Voltage	V~	42	100	120	230
Power consumption	W	600	1400	1600	1600
Frequency	Hz	50 / 60			
Temperature	°C	20 – 600			
Min. air flow (20° C)	l/min	40			
Pressure dynamic	Pa	max. 10 ⁵ (1000 mbar)			
Size (L x Ø)	mm	265 x 57, handle Ø 40			
Weight	kg	1.15 (with 3 m cord / 3 m air hose)			
Marking of conformity		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		□			

Hand tool

DIODE S

The Leister DIODE S hand tool is an especially successful combination of easy handling and power with stepless welding temperature control.



- Electronic temperature control
- Overheating protection for heating elements
- Adaptor tube with heat protection
- Push-fit and screw-on nozzles for round and profile welding rods
- Air supply provided by the ROBUST or MINOR blowers
- Suitable for mobile assembling applications when connected to the MINOR blower

Technical Data

Voltage	V~	42	100	120	230
Power consumption	W	600	1400	1600	1600
Frequency	Hz	50 / 60			
Temperature	°C	20 – 600			
Min. air flow (20° C)	l/min	40			
Pressure dynamic	Pa	max. 10 ⁵ (1000 mbar)			
Size (L x Ø)	mm	265 x 57 handle Ø 40			
Weight	kg	1.15 (with 3 m cord / 3 m air hose)			
Marking of conformity		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		□			

Hand tool

MINOR

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



- Lightweight and compact
- Powerful
- Mobile air supply for Leister welding machines

Blowers

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
- Continuous operation
- Can be fitted in every position

Technical Data

Voltage	V~	42	120	230
Power consumption	W	100		
Frequency	Hz	50 / 60		
Air flow (20°C)	l/min	400		
Pressure static	Pa	4000		
Noise emission level L _{pA}	dB	67		
Outlet opening (outside)	mm	14.5		
Size (L × Ø)	mm	250 × 95, handle Ø 64		
Weight	kg	1.15 (with 3 m cord)		
Marking of conformity		CE		
Approval mark		Ⓢ		
Certification scheme		CCA		
Protection class II		Ⓜ		

Technical Data

Voltage	V~	3 × 230 人	3 × 400 Δ
Power consumption	W	250	
Frequency	Hz	50 / 60	
Air flow (20°C)	l/min	1200 / 1300	
Pressure static	Pa	8000 / 10 500	
Ambient temperature	°C	< 60	
Noise emission level L _{pA}	dB	62	
Protection type (IEC 60529)		IP 54	
Intake opening (outside)	mm	Ø 38	
Outlet opening (outside)	mm	Ø 38	
Weight	kg	8.0	
Size (L × W × H)	mm	255 × 221 × 221	
Marking of conformity		CE	
Protection class I		Ⓛ	



Rod welding using the compact, powerful WELDING PEN R.



Welding a molded part with TRIAC PID and push-fit speed welding nozzle.



Easy going: the handy and noiseless WELDMAX is ideal for difficult positions.

Hand tool

TRIAC PID

Thanks to micro-processor controlled temperature and electronic monitoring, the preferred hand tool for welding with high quality.



- Reproducible results thanks to digital display of set and actual temperature
- Welding results independent of voltage fluctuations and ambient temperature
- Adaptor tube with heat protection
- Electronic heating element protection
- Motor shut-off at minimal carbon level
- Suitable for continuous operation
- Multiple replacement of carbon brushes possible

Technical Data

Voltage	V~	42	100	120	200	230
Power consumption	W	1000	1400	1600	1400	1600
Frequency	Hz	50 / 60				
Temperature	°C	50 – 600				
Air flow (20°C)	l/min	230				
Pressure static	Pa	ca. 3000 (30 mbar)				
Noise emission level L _{pA}	dB	65				
Size (L × Ø)	mm	340 × 90, handle Ø 56				
Weight	kg	1.4 (with 3 m cord)				
Marking of conformity		CE				
Approval mark		S				
Certification scheme		CCA				
Protection class II		□				

Hand tool

TRIAC S

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



- Adaptor tube with heat protection
- Electronic heating element protection
- Motor shut-off at minimal carbon level
- Multiple replacement of carbon brushes possible
- Suitable for continuous operation

Technical Data

Voltage	V~	42	100	120	200	230
Power consumption	W	1000	1400	1600	1400	1600
Frequency	Hz	50 / 60				
Temperature	°C	20 – 700				
Air flow (20°C)	l/min	230				
Pressure static	Pa	ca. 3000 (30 mbar)				
Noise emission level L _{pA}	dB	65				
Size (L × Ø)	mm	340 × 90, handle Ø 56				
Weight	kg	1.4 (with 3 m cord)				
Marking of conformity		CE				
Approval mark		S				
Certification scheme		CCA				
Protection class II		□				

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.



- 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	V~	100	120	230
Power consumption	W	460		
Frequency	Hz	50 / 60		
Temperature	°C	20 – 600		
Air flow (20°C)	l/min	20 – 80		
Pressure static	Pa	max. 1600 (16 mbar)		
Noise emission level L _{pA}	dB	59		
Size (L × Ø)	mm	235 × 70, handle Ø 40		
Weight	kg	0.6 (with 3 m cord)		
Marking of conformity		CE		
Approval mark		Ⓢ		
Certification scheme		CCA		
Protection class II		□		

Hand tool

ELECTRON

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



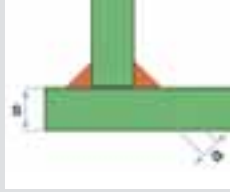
- Powerful
- Compact
- Robust
- Construction site tried and tested

Technical Data

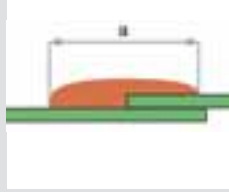
Voltage	V~	42	120	200	230	230
Power consumption	W	1000	2700	3000	2300	3400
Frequency	Hz	50 / 60				
Temperature	°C	20 – 650				
Air flow (20°C)	l/min	320, manual air slide				
Pressure static	Pa	3000 (30 mbar)				
Noise emission level L _{pA}	dB	65				
Size (L × Ø)	mm	320 × 95, handle Ø 64				
Weight	kg	1.5 (with 3 m cord)				
Marking of conformity		CE				
Approval mark		Ⓢ				
Certification scheme		CCA				
Protection class II		□				

Possibilities of welding seams

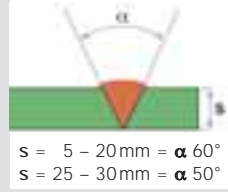
Fillet welding seam



Overlapp



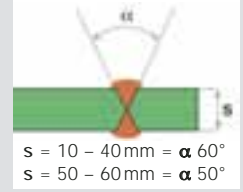
V-seam



$$s = 5 - 20 \text{ mm} = \alpha 60^\circ$$

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

X-seam









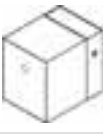


$$s = 10 - 40 \text{ mm} = \alpha 60^\circ$$

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



Legend: a = seam size s = material thickness

α = milling angle






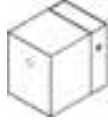

Accessories for hand extruders

112.629		Welding shoe complete, V-seam 5 mm	118.887		Welding shoe complete, fillet weld 5/6 mm (a = 4.2 mm)
112.621		Welding shoe complete, V-seam 6 mm	118.885		Welding shoe complete, fillet weld 8/10 mm (a = 7 mm)
112.623		Welding shoe complete, V-seam 8 mm	119.139		Welding shoe complete, fillet weld 15 mm (a = 10.5)
112.624		Welding shoe complete, V-seam 10 mm	119.140		Welding shoe complete, fillet weld 20 mm (a = 14 mm)
112.630		> WELDMAX	119.141	Welding shoe complete, fillet weld 25 mm (a = 17.5 mm)	> FUSION 3
112.625		Welding shoe complete, for fillet weld 5 mm (a = 3.5 mm)	119.142	Welding shoe complete, fillet weld 30 mm (a = 21 mm)	
112.627		Welding shoe complete, for fillet weld 6 mm (a = 4.2 mm)	118.890	Welding shoe complete, overlap 25 mm	
112.628		Welding shoe complete, for fillet weld 8 mm (a = 5.6 mm)	119.185	Welding shoe complete, overlap 35 mm	
112.628		Welding shoe complete, for fillet weld 10 mm (a = 7 mm)	119.188		> FUSION 3
112.626		Welding shoe complete, overlap 20 mm	119.190		Welding shoe complete, overlap 25 mm
112.830		Welding shoe blank complete	119.190		Welding shoe complete, overlap 35 mm
119.214		> WELDMAX	119.222		Welding shoe complete, blank 70 x 50 x 47.5 mm
118.888		Welding shoe complete, blank 70 x 50 x 47.5 mm	119.193		> WELDPLAST 4 > WELDPLAST 6
118.889		Welding shoe complete, V-seam 5/6 and X-seam 10/12 mm	119.193		Welding shoe complete, V-seam 5/6 and X-seam 10/12 mm
119.202		Welding shoe complete, V-seam 8/10 and X-seam 15/20 mm	119.194		Welding shoe complete, V-seam 8/10 and X-seam 15/20 mm
119.203		Welding shoe complete, V-seam 12 and X-seam 25 mm	119.195		Welding shoe complete, V-seam 12 and X-seam 25 mm
119.204		Welding shoe complete, V-seam 15 and X-seam 30 mm	119.196		Welding shoe complete, V-seam 15 and X-seam 30 mm
119.204		Welding shoe complete, V-seam 20 and X-seam 35/40 mm	119.197		Welding shoe complete, V-seam 20 and X-seam 35/40 mm
119.205		Welding shoe complete, V-seam 25 mm	119.198		Welding shoe complete, V-seam 25 mm
119.206		Welding shoe complete, V-seam 30 mm	119.199		Welding shoe complete, V-seam 30 mm
		> FUSION 3			> WELDPLAST 4 > WELDPLAST 6

Accessories for hand extruders





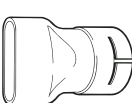
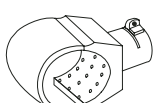


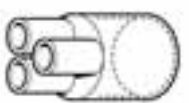
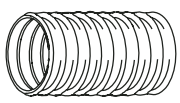
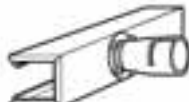

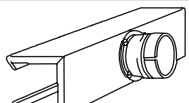






119.159		Welding shoe complete, fillet weld 5/6 mm (a = 4.2 mm)
119.161		Welding shoe complete, fillet weld 8/10 mm (a = 7 mm)
119.163		Welding shoe complete, fillet weld 15 mm (a = 10.5 mm)
119.164		Welding shoe complete, fillet weld 20 mm (a = 14 mm)
119.165		Welding shoe complete, fillet weld 25 mm (a = 17.5 mm)
119.166		Welding shoe complete, fillet weld 30 mm (a = 21 mm)
		> WELDPLAST 4 > WELDPLAST 6
117.065		Hot air guide on top
		> WELDPLAST 4
117.795		Hot air guide on top
		> WELDPLAST 6
118.568		Handle for landfill
		> FUSION 3
118.804		Tool rest
		> WELDPLAST 4 > WELDPLAST 6 > FUSION 3
118.188		Welding rod de-reeler
112.852		Storage case
		> WELDMAX

Included in delivery are:

117.053		Preheating nozzle small
		> WELDPLAST 4 > WELDPLAST 6
117.518		Preheating nozzle medium
		> WELDPLAST 4 > WELDPLAST 6
117.055		Preheating nozzle large
		> WELDPLAST 4 > WELDPLAST 6
117.064		Hot air guide lateral
		> WELDPLAST 4
117.790		Hot air guide lateral
		> WELDPLAST 6
119.217		Welding shoe blank complete, 50 × 40 × 38 mm
		> WELDPLAST 4 > WELDPLAST 6
118.094		Welding shoe blank complete 50 × 30 × 38 mm
		> FUSION 3

Nozzles are not included to the hand extruders. Technical data are subject to change without notice.

Accessories for plastic fabrication

107.144		Tubular nozzle Ø 5 mm, push-fit > HOT JET S	107.346		Welding mirror 270 mm, push-fit > ELECTRON
100.303		Tubular nozzle Ø 5 mm, push-fit > DIODE PID > DIODE S > TRIAC PID > TRIAC S	107.347		Swordshaped nozzle 74 × 12 × 520 mm, PTFE covered, push-fit > ELECTRON
107.258		Wide slot nozzle 70 × 10 mm, push-fit > ELECTRON	107.331		Folding reflector 72 × 70 mm, push-fit > ELECTRON
107.270		Wide slot nozzle 150 × 12 mm, push-fit > ELECTRON	107.354		Stainless steel filter > ROBUST
107.281		Hose coupling (Ø 38 mm) 3 outlets > ROBUST	101.681		Air hose Ø 14 mm > DIODE PID > DIODE S > WELDING PEN R > WELDING PEN S
107.326		Shell reflector 25 × 150 mm, push-fit > DIODE PID > DIODE S > TRIAC PID > TRIAC S	101.031		Hose clamp for air hose Ø 14 mm
107.340		Shell reflector 45 × 250 mm, push-fit > ELECTRON	104.017 108.623		Motor capacitor 400 V Motor capacitor 230 V > ROBUST
107.344		Welding mirror 135 mm, push-fit > DIODE PID > DIODE S > TRIAC PID > TRIAC S	107.037		Test bundle profiled welding rod 5.7 mm
Profile A		Endless profiled welding rod PVDF			
Profile A Profile B		Endless profiled welding rod 5.7 x 3.7 mm, 7 x 5 mm, in PVC-U (grey), PVC-P (transparent), PE-HD (black), PE-LD (black), PP (beige), ABS (white)			
Profile A		Endless profiled welding rod in PC (transparent), PA (black), POM (nature), PC (xenoy grey), ABS (black)			

Accessories for plastic fabrication

<p>113.666 113.399</p>		<p>High speed draw nozzle \varnothing 3mm with tacking tip, screw on (without tacking tip on request) High speed draw nozzle \varnothing 4mm with tacking tip, screw on (without tacking tip on request)</p> <p>> DIODE PID > DIODE S > TRIAC PID > TRIAC S > WELDING PEN R > WELDING PEN S</p>
<p>113.670 106.986</p>		<p>High speed draw nozzle 90 – 5.7 mm with tacking tip, screw on (without tacking tip on request) Draw nozzle 7 mm, screw on</p> <p>> DIODE PID > DIODE S > TRIAC PID > TRIAC S > WELDING PEN R > WELDING PEN S</p>
<p>106.988</p>		<p>Tacking nozzle screw on</p> <p>> DIODE PID > DIODE S > TRIAC PID > TRIAC S > WELDING PEN R > WELDING PEN S</p>
<p>105.622</p>		<p>Tubular nozzle \varnothing 5 mm, screw on</p> <p>> DIODE PID > DIODE S > TRIAC PID > TRIAC S > WELDING PEN R > WELDING PEN S</p>
<p>106.992 106.993</p>		<p>Speed welding nozzle 5.7 mm, push-fit on tubular nozzle \varnothing 5 mm Speed welding nozzle 7 mm, push-fit on tubular nozzle \varnothing 5 mm</p>
<p>106.989 106.990 106.991</p>		<p>Speed welding nozzle 3 mm, push-fit on tubular nozzle \varnothing 5 mm Speed welding nozzle 4 mm push-fit, on tubular nozzle \varnothing 5 mm Speed welding nozzle 5 mm, push-fit on tubular nozzle \varnothing 5 mm</p>
<p>106.996</p>		<p>Tacking nozzle, push-fit on tubular nozzle \varnothing 5mm</p>

Nozzles are not included to the hand tools. Technical data are subject to change without notice.



Headquarters:

Leister Process Technologies
Riedstrasse
6060 Sarnen/Switzerland
phone: 41 41 662 74 74
fax: 41 41 662 74 16
leister@leister.com

China:

Leister Technologies Ltd.
Building A, 1588 Zhuanxing Road
Shanghai 201 108 PRC
phone: 86 21 6442 2398
fax: 86 21 6442 2338
leister@leister.cn



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