





Civil Engineering / Tunneling / Landfills

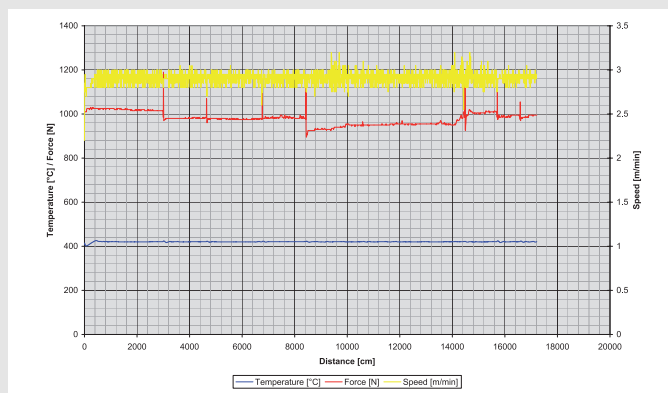
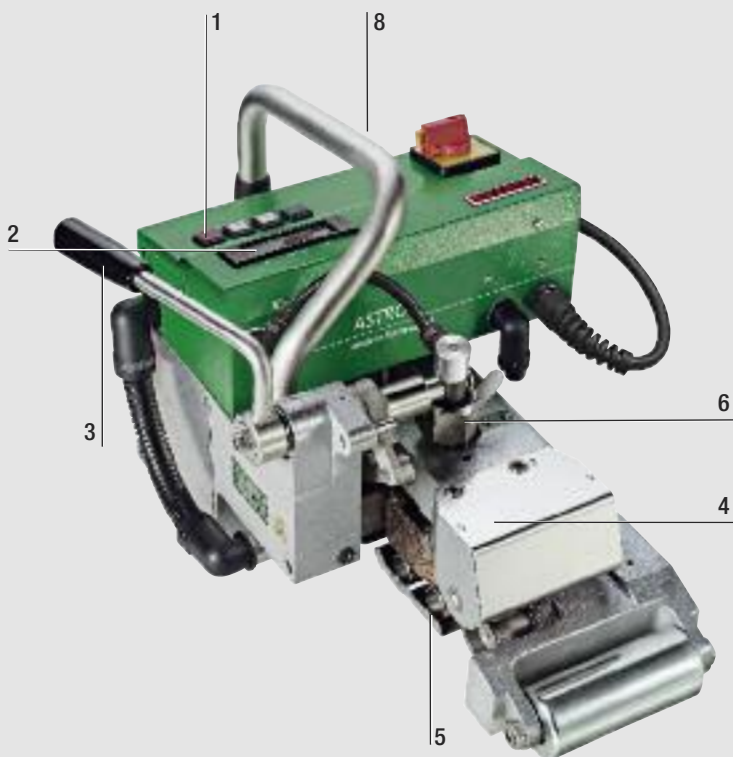
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ASTRO / ASTRO USB: The thoroughbred.

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

Wedge welder ASTRO USB



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

1		Simple operation All functions can be accessed and controlled by just a few buttons.
2		Display Allows the user to control and monitor all the parameters at any given time!
3		One-handle operation Simultaneous operation of clamping lever and hot wedge.
4		Pendulum head Perfect pressure distribution of both welding tracks.
5		Hot wedge Sufficient capacity reserve and optimal welding speed due to high capacity cartridge type heaters.
6		Pressure sensor Precise pressure sensor for optimal process control.
7		Acoustic alarm Safe workspace with limit value monitoring.
8		USB memory system Easily record a permanent archive of all 1400 relevant welding parameters.
9		Handy storage case Convenient transport – perfect protection. (Included with purchase)



Fast and perfect!



Special version for concrete protective liners.

Wedge welder

ASTRO



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

Technical Data

Voltage	V~	230
Power	W	1800
Temperature	°C	20 – 420
Speed	m/min	0.8 – 5.0
Welding pressure	N	100 – 1500
Weld seam width	mm	2 x 15
Material thickness	mm	1.5 – 3.0
Size (L x W x H)	mm	430 x 270 x 310
Weight	kg	23.0 (with 3 m cable)
Conformity Marking	CE	
Approval mark	S	
Certification scheme	CCA	
Protection class I	⊕	

Article No.:

117.100 ASTRO, 230V / 1800W, roller 50 mm, with test channel, overlap 42 mm, with Euro plug, sturdy storage case

Wedge welder

ASTRO USB



- Digital display of pressure
- Acoustic alarm if limit value is exceeded
- Complete record of all relevant welding parameters
- USB memory system

Technical Data

Voltage	V~	230
Power	W	1800
Temperature	°C	20 – 420
Speed	m/min	0.8 – 5.0
Welding pressure	N	100 – 1500
Weld seam width	mm	2 x 15
Material thickness	mm	1.5 – 3.0
Size (L x W x H)	mm	430 x 270 x 310
Weight	kg	23.0 (with 3 m cable)
Conformity Marking	CE	
Approval mark	S	
Certification scheme	CCA	
Protection class I	⊕	

Article No.:

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

COMET / COMET USB: The highflyers.

This compact heavy-duty welding machine is in use worldwide. The small powerhouse is specially designed for the demands of landfills sites, mines and tunnels. Documentation made simple: COMET USB's memory system is designed for use on construction sites. Because this compact hot wedge welding machine records all relevant welding parameters, data transfer is mere child's play.

Wedge welder COMET



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

Wedge welder COMET USB



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

Technical Data

Voltage	V~	230 / 120
Power	W	1500 / 1200
Temperature	°C	20 – 420
Speed	m/min	0.8 – 3.2
Welding pressure	N	100 – 1000
Weld seam width	mm	2 x 15, with test channel
Material thickness	mm	0.5 – 3
Size (L x B x H)	mm	295 x 250 x 245
Weight	kg	7.5 (with 3 m cable)
Conformity Marking	CE	
Approval mark	S	
Protection class I	⊕	

Article No.:

107.538	COMET, wedge 70 mm for PE, 230 V / 1500 W, test channel, Euro plug
107.547	COMET, wedge 50 mm for PE, 230 V / 1200 W, test channel, Euro plug
107.558	COMET, wedge 50 mm for PVC, 230 V / 1200 W, test channel, Euro plug
107.539	COMET, wedge 70 mm for PE, 120 V / 1500 W, test channel, yellow UK plug
107.553	COMET, wedge 50 mm for PE, 120 V / 1200 W, test channel, yellow UK plug

Additional versions available upon request.

Technical Data

Voltage	V~	230
Power	W	1500 / 1200
Temperature	°C	20 – 420
Speed	m/min	0.8 – 3.2
Welding pressure	N	100 – 1000
Weld seam width	mm	2 x 15, with test channel
Material thickness	mm	0.5 – 3
Size (L x B x H)	mm	295 x 250 x 245
Weight	kg	7.5 (with 3 m cable)
Conformity Marking	CE	
Approval mark	S	
Protection class I	⊕	

Article No.:

137.626	COMET USB, with wedge 50 mm for PE, 230 V / 1200 W, with test channel, Euro plug
138.088	COMET USB, with wedge 70 mm for PE, 230 V / 1500 W, with test channel, Euro plug


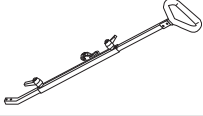




Comet operating in the tunnel ...



... or on a landfills site.

Accessories COMET / COMET USB

	112.974	Extremely light cross handle, material: aluminum
	129.224	Guide-bar, complete
	110.715	Tool set consist of hexagon spanner 8 / 10 / 13 / 17 mm and hexagon bolt 3 / 4 / 6 mm
	115.905	USB memory stick



Perfectly protected in the storage case.

126.448
(included with purchase)

Fields of application COMET / COMET USB

Power	1500 W		1200 W		700 W	
	Wedge length	Material thickness	Wedge length	Material thickness	Wedge length	Material thickness
PE-HD, PE-C, PP	70 mm copper	1.5 – 2.0 mm	50 mm copper	0.5 – 1.5 mm	20 mm steel	0.5 – 1.0 mm
PE-LD	70 mm copper	2.0 – 3.0 mm	50 mm copper	1.0 – 2.0 mm	20 mm steel	0.5 – 1.0 mm
PVC-P	70 mm steel	2.0 – 3.0 mm	50 mm steel	1.0 – 2.0 mm		

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

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

Combiwedge welder

TWINNY T



- Simple operation
- High welding speed
- Digital display of temperature and velocity
- Closed-loop control of temperature and drive
- Perfect welding result even in harsh environmental conditions thanks to hot air system.

Technical Data

Voltage	V~	230 / 120
Power	W	2300 / 1900
Temperature	°C	20 – 560
Velocity	m/min	0.8 – 3.2
Welding pressure	N	100 – 1000
Size (L x W x H)	mm	340 x 360 x 245
Weight	kg	6.9 – 7.9 (with 3 m cable)
Conformity Marking	CE	
Approval mark	S	
Protection class I	⊕	

Article No.:

- 107.562 TWINNY T for civil engineering, 230 V / 2300 W, with test channel, with combiwedge long, with Euro plug
- 107.564 TWINNY T for civil engineering, 230 V / 2300 W, with test channel, with combiwedge short, with Euro plug
- 111.190 TWINNY T for tunnel construction, 230 V / 2300 W, with test channel, with combiwedge short, with Euro plug
- 115.761 TWINNY T for civil engineering, 230 V / 2300 W, without test channel, with combiwedge long, with Euro plug
- 113.362 TWINNY T for civil engineering, 120V / 1900W, roller 50 mm, with test channel, with short combi-wedge, with UK plug

Additional versions available upon request.

Combiwedge welder

TWINNY T USB



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

Technical Data

Voltage	V~	230
Power	W	2300
Temperature	°C	20 – 560
Velocity	m/min	0.8 – 3.2
Welding pressure	N	100 – 1000
Size (L x W x H)	mm	340 x 360 x 245
Weight	kg	6.9 – 7.9 (with 3 m cable)
Conformity Marking	CE	
Approval mark	S	
Protection class I	⊕	

Article No.:

- 138.089 TWINNY T USB for civil engineering, 230 V / 2300 W, with test channel, with combiwedge long, with Euro plug

Additional versions available upon request.

TWINNY S: The lightweight.

Lightweight version, optimized for overhead welding, is ideal for thin materials used in civil engineering and tunnel construction. Leister offers a choice between replaceable combiwedges with or without test channel.



TWINNY T, with convenient cross-handle, at work overhead welding in a tunnel.

Combiwedge welder

TWINNY S



- Simple operation
- Lightweight
- High welding speed
- Stepless adjustment of temperature and drive
- Perfect welding result even in harsh environmental conditions thanks to hot air system.

Technical Data









Voltage	V~	230 / 120
Power	W	2900 / 1900
Temperature	°C	20 – 600
Speed	m/min	
Gear 256:1		0.2 – 2.5
Gear 144:1		1.4 – 4 (6)
Welding pressure	N	1000
Size (L x W x H)	mm	350 x 390 x 270
Weight	kg	6.5 – 6.9 (with 3 m cable)
Conformity Marking		CE
Approval mark		CS
Certification scheme		CCA
Protection class II		□

Article No.:

119.031	TWINNY S for tunnel construction, drive 256:1, 230 V / 2900 W, with test channel, combiwedge long, Euro plug
119.030	TWINNY S for tunnel construction, drive 256:1, 230 V / 2900 W, with test channel, combiwedge short, Euro plug
119.027	TWINNY S for civil engineering, drive 256:1, 230 V / 2900 W, with test channel, combiwedge long, Euro plug
119.008	TWINNY S for civil engineering, drive 144:1, 230 V / 2900 W, with test channel, combiwedge short, Euro plug
128.808	TWINNY S for civil engineering, drive 144:1, 6 m/min, 230 V / 2900 W, with test channel, combiwedge short, Euro plug

Additional versions available upon request.



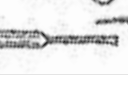
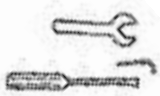


Accessories TWINNY T / T USB / S

	112.974	Cross handle extremely light, material: aluminum
	129.224	Guide-bar, complete
	100.517	50 mm combiwedge short, with test channel
	100.518	50 mm combiwedge short, without test channel
	100.519	30 mm combiwedge short, with test channel
	100.520	30 mm combiwedge short, without test channel
	100.525	50 mm combiwedge long, complete, with test channel
	100.526	50 mm combiwedge long, complete, without test channel, slotted, perforated

Accessories TWINNY T / T USB

	103.604	230 V / 2100 W heating element
	103.602	120 V / 1800 W heating element

Accessories TWINNY S

	101.905	230 V / 2750 W heating element
	101.910	230 V / 2100 W heating element
	101.913	120 V / 1800 W heating element
	110.715	Tool set consists of hexagon spanner 8 / 10 / 13 / 17 mm and hexagon bolt 3 / 4 / 6 mm
	115.905	USB memory stick
	126.448	Storage case (included with purchase)

TRIAC DRIVE: The climber.

This tried and tested semi-automatic welding machine can be used in most applications. The increased welding speed, compared with manual welding, gives rise to higher productivity.



Overhead welding made easy with the TRIAC DRIVE PID.

Semi automatic welding machine

TRIAC DRIVE PID



- Faster and additional efficiency than hand welding
- Small and compact
- Steplessly adjustable speed for high-quality welding
- Can be used in the most confined spaces

Technical Data







Voltage	V~	230
Power	W	1700
Temperature	°C	20 – 600
Speed	m/min	0.5 – 3
Width of welding nozzle	mm	40 / 30
Dimensions (L × W × H)	mm	300 × 230 × 380
Weight	kg	4.15 (with 3 m cable, without guide aid)
Conformity Marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓛ

Article No.:

- 115.985 TRIAC DRIVE PID without guiding help, 230 V / 1700 W, outside, without grip, width of welding nozzle 40 mm, Euro plug
- 138.860 TRIAC DRIVE PID with guiding help, 230 V / 1700 W, inside, without grip, width of welding nozzle 30 mm, Euro plug

Additional versions available upon request.

Accessories TRIAC DRIVE PID

	115.274	12 mm pressure roller, steel
	115.176	30 mm pressure roller, steel
	115.712	40 mm pressure roller, steel
	138.570	12 mm pressure roller, silicon
	115.857	30 mm pressure roller, silicon
	115.921	40 mm pressure roller, silicon
	115.276	Single supporting carrier
	115.281	Overlap welding nozzle, inside, push-fit
	115.279	38 mm, <i>with</i> grip
	115.703	30 mm, <i>with</i> grip
	115.701	38 mm, <i>without</i> grip
	115.701	30 mm, <i>without</i> grip
	115.280	Overlap welding nozzle, outside, push-fit
	115.278	38 mm, <i>with</i> grip
	115.702	30 mm, <i>with</i> grip
	115.702	38 mm, <i>without</i> grip
	115.700	30 mm, <i>without</i> grip
	100.296	230 V / 1550 W heating element for TRIAC PID
	108.985	Storage case (included with purchase)

EXAMO USB: The inspector.

Is the welding seam sealed and can it withstand the specified peeling, tensile and shearing forces? EXAMO performs tests at the construction site – quick, reliable and uncomplicated.



Seam tests can be conducted in the lab or on-site with the EXAMO USB.

Testing instrument

EXAMO USB



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

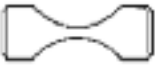

Technical Data

Type		300F	600F
Voltage	V~	230	230
Power	W	200	200
Tensile load	N	4000	4000
Jaw spacing	mm	5 – 300	5 – 600
Range	mm	300	600
Test speed	mm/min	10 – 300	10 – 300
Sample thickness	mm	max. 7	max. 7
Sample width	mm	max. 40 (60 optional)	max. 40 (60 optional)
Size (L x W x H)	mm	750 x 270 x 190 (case)	1050 x 270 x 190 (case)
Weight	kg	14	17.5
Conformity Marking		CE	CE
Approval Mark		Ⓢ	Ⓢ
Protection Class I		Ⓢ	Ⓢ

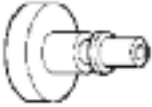
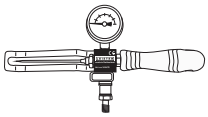

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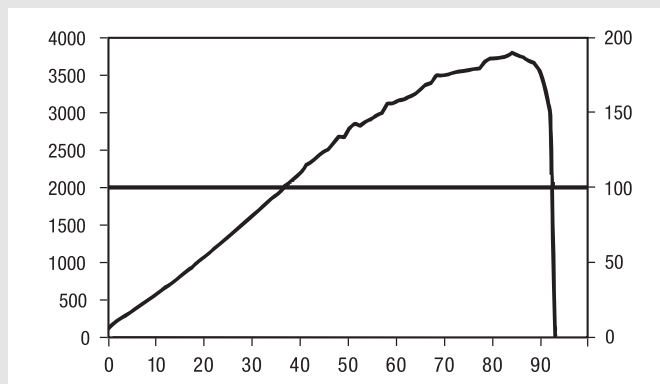
- 139.059 EXAMO 300F USB, 230 V / 200 W, incl. USB memory stick, Euro plug
139.060 EXAMO 600F USB, 230 V / 200 W, incl. USB memory stick, Euro plug

Accessories EXAMO USB

	134.832	Testing and calibration kit To test and calibrate your EXAMO USB
	113.005	Jaws for geo textiles left
	113.006	right

Testing devices

	106.950	Welding fitting PE
	142.475	Testing device with injector needle
	109.795	∅ 320 mm vacuum bell



Visualization of an EXAMO USB report.

WELDPLAST S6: The workhorse.

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



WELDPLAST S6 undertaking assembly applications on a landfill site.

Digitally regulated extrusion welder

WELDPLAST S6



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

Technical Data

Voltage	V~	230
Power	W	4600
Material		PE / PP
Welding rod	mm	∅ 4 or ∅ 5
Output	kg/h	3.9 – 6.0
Size (L x W x H)	mm	821 x 116 x 240
Weight	kg	14
Conformity Marking		CE
Approval mark		Ⓢ
Protection class I		⊕

Article No.:

134.318 Hand extruder WELDPLAST S6, 230V / 5300W, CEE 32A plug

Included with purchase: WELDPLAST S6, overlap welding shoe, storage case

Accessories WELDPLAST S6

	119.217	Welding shoe complete
	119.222	50 x 40 x 38 mm blank welding shoe
	119.190	70 x 50 x 47.5 mm blank welding shoe
	135.901	35 mm overlap
	119.197	40 mm overlap
	119.198	20 mm V-seam and 35/40 mm X-seam
	119.199	25 mm V-seam
	119.164	30 mm V-seam
	119.165	20 mm fillet weld (a = 14 mm)
	119.166	25 mm fillet weld (a = 17.5 mm)
	144.905	30 mm fillet weld (a = 21 mm)
	145.705	45° angled adapter
	117.055	90° angled adapter
	136.859	35 mm preheating nozzle, large
	117.790	50 mm preheating nozzle, XL large
	134.567	Side hot air guide
	144.095	230 V / 2600 W heating element



Ultra strong storage case
Article-No.: 116.367
(included with purchase)

WELDPLAST S4: The workmate.

The WELDPLAST S4 is the first extrusion welder of its kind with brushless, maintenance-free motor for generating preheated air. Output of up to four kilograms per hour is made possible thanks to the S4's powerful drive system.



The powerful WELDPLAST S4 at work.

Digitally regulated extrusion welder

WELDPLAST S4



- Compact housing design reduces noise and guarantees optimal cooling for the electronics and drive.
- Microprocessor to regulate the welding process and to monitor the tool
- Menu with function programs
- Dual-sided twist-free wire intake
- Maintenance-free blower

Technical Data

Voltage	V~	230
Power	W	3680
Material		PE / PP
Welding rod	mm	∅ 3 or ∅ 4
Output	kg/h	1.5 – 4.0
Size (L × W × H)	mm	560 × 110 × 300
Weight	kg	8.7
Conformity Marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓢ

Article No.:

116.948 Hand extruder WELDPLAST S4, 230 V / 3680 W, with Euro plug

Included in delivery: WELDPLAST S4, blank welding shoe, preheating nozzle large, medium and small, storage case

Accessories WELDPLAST S6

	119.217 119.222	Welding shoe complete 50 × 40 × 38 mm blank welding shoe 70 × 50 × 47.5 mm blank welding shoe
	119.194 119.195 119.196 119.197 119.198	8 / 10 mm V-seam and 15 / 20 mm X-seam 12 mm V-seam and 25 mm X-seam 15 mm V-seam and 30 mm X-seam 20 mm V-seam and 35 / 40 mm X-seam 25 mm V-seam
	119.161 119.163 119.164 119.165	8 / 10 mm fillet weld (a = 7 mm) 15 mm fillet weld (a = 10.5 mm) 20 mm fillet weld (a = 14 mm) 25 mm fillet weld (a = 17.5 mm)
	119.190 135.901	35 mm overlap 40 mm overlap
	144.904 145.704	45° angled adapter 90° angled adapter
	117.064 117.065	Side hot air guide Top hot air guide
	117.053 117.518 141.177	20 mm preheating nozzle, small 25 mm preheating nozzle, medium 35 mm preheating nozzle, large
	118.804	Tool rest
	136.231	Pre-heat reflector
	109.984	230 V / 2200 W heating element
	144.095	Welding rod de-reeler
	123.173	Storage case (included with purchase)

WELDPLAST S2: The master piece.

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



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

Digitally regulated extrusion welder

WELDPLAST S2



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




Technical Data

Voltage	V~	230
Power	W	3000
Material		PE / PP
Welding rod	mm	∅ 3 or ∅ 4
Output ∅ 3 mm	kg/h	PE: 0.6–1.3 PP: 0.5–1.2
Output ∅ 4 mm	kg/h	PE: 1.0–2.3 PP: 0.9–2.0
Size (L × W × H)	mm	450 × 98 × 260
Weight	kg	5.8
Conformity Marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class I		Ⓢ










Article No.:

127.215 WELDPLAST S2, 230 V / 3000 W, Euro plug
 136.602 WELDPLAST S2, 230 V / 3000 W, TPO, Euro p
 Included with purchase: WELDPLAST S2, blank welding shoe, storage case

Accessories WELDPLAST S2

	131.451	Device rest
	136.231	Pre-heat reflector
	134.361	Air filter set (included with purchase)
	143.776	Textile dust filter (not included with purchase)

Accessories WELDPLAST S2 / S2 TPO

	118.094	Welding shoe complete 50 × 40 × 38 mm blank welding shoe
	119.214	70 × 50 × 47.5 mm blank welding shoe
	118.888	5 / 6 V-seam and 10 / 12 mm X-seam
	118.889	8 / 10 V-seam and 15 / 20 mm X-seam
	119.202	12 mm V-seam and 25 mm X-seam
	119.203	15 mm V-seam and 30 mm X-seam
	119.204	20 mm V-seam and 35 / 40 mm X-seam
	118.887	5 / 6 mm fillet weld (a = 4.2 mm)
	118.885	8 / 10 mm fillet weld (a = 7 mm)
	119.139	15 mm fillet weld (a = 10.5)
	119.140	20 mm fillet weld (a = 14 mm)
	129.008	20 mm corner, short
	129.010	14 mm corner, long
	139.460	45° angled adapter
	139.461	90° angled adapter
	109.984	230 V / 2200 W heating element
	144.095	Welding rod de-reeler
	119.540	Storage case (included with purchase)

FUSION 3 / 3C: THE slim twins.

With its long and narrow shape, the FUSION 3 enables comfortable work, even on the floor. The somewhat shorter 3C provides an astounding output volume of up to 3.6 kilograms per hour.



Due to its length, the FUSION 3 is especially suited for civil engineering applications.

Air heated extrusion welder

FUSION 3



- High welding performance
- Compact and handy
- Motor start-up protection prevents cold start
- Dual-sided twist-free wire intake
- 360° rotatable welding shoe

Technical Data

	mm	Version Ø 3–4		Version Ø 4–5	
Welding rod Ø	mm	3	4	4	5
Output PE	kg/h	2.0–2.5	2.7–3.6	2.1–2.6	2.7–3.6
Output PP	kg/h	1.8–2.3	2.5–3.4	1.8–2.4	2.5–3.4
Voltage	V~	230			
Power	W	3500			
Material		PE / PP			
Size (L × W × H)	mm	670 × 90 × 180			
Weight	kg	7.2			
Conformity marking		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		□			

Article No.:

118.300 FUSION 3, 230 V / 3500 W, welding rod Ø 3–4 mm, Euro plug
 144.615 FUSION 3, 230 V / 3500 W, welding rod Ø 4–5 mm, Euro plug
 Included with purchase: FUSION 3, raw welding shoe, storage case

Air heated extrusion welder

FUSION 3C



- High welding performance
- Compact and handy
- Motor start-up protection prevents cold start
- Dual-sided twist-free wire intake
- 360° rotatable welding shoe

Technical Data

	mm	Version Ø 3–4		Version Ø 4–5	
Welding rod Ø	mm	3	4	4	5
Output PE	kg/h	2.0–2.5	2.7–3.6	2.1–2.6	2.7–3.6
Output PP	kg/h	1.8–2.3	2.5–3.4	1.8–2.4	2.5–3.4
Voltage	V~	230			
Power	W	2800			
Material		PE / PP			
Size (L × W × H)	mm	588 × 98 × 225			
Weight	kg	6.9			
Conformity marking		CE			
Approval mark		S			
Certification scheme		CCA			
Protection class II		□			

Article No.:

123.866 FUSION 3C, 230 V / 2800 W, welding rod Ø 3–4 mm, Euro plug
 144.826 FUSION 3C, 230 V / 2800 W, welding rod Ø 4–5 mm, Euro plug
 Included with purchase: FUSION 3C, raw welding shoe, storage case



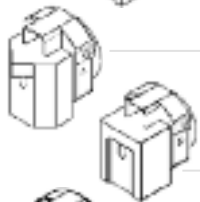








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The FUSION 3 C for comfortable working in awkward positions.

Accessories FUSION 3 / FUSION 3C

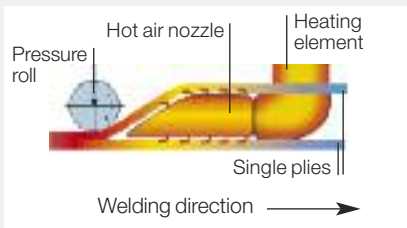
	118.094	50 × 40 × 38 mm blank welding shoe
	119.214	70 × 50 × 47.5 mm blank welding shoe
	118.889	8 / 10 V-seam and 15 / 20 mm X-seam
	119.202	12 mm V seam and 25 mm X-seam
	119.203	15 mm V-seam and 30 mm X-seam
	119.204	20 mm V-seam and 35 / 40 mm X-seam
	119.205	25 mm V-seam
	118.885	8 / 10 mm fillet weld (a = 7 mm)
	119.139	15 mm fillet weld (a = 10.5 mm)
	119.140	20 mm fillet weld (a = 14 mm)
	119.141	25 mm fillet weld (a = 17.5 mm)
	118.890	25 mm overlap
	119.185	35 mm overlap
	129.008	20 mm corner, short
	129.010	14 mm corner, long
	136.231	Pre-heat reflector
	118.804	Tool rest
	135.082	Air filter FUSION 3C
	113.268	230 V / 1100 + 1100 W heating element for FUSION 3
	123.561	230 V / 1750 W heating element for FUSION 3C
	144.095	Welding rod de-reeler
	123.173	Storage case for FUSION 3
	119.540	Storage case for FUSION 3C

Storage case for FUSION 3C. (included with purchase)



Welding technologies for welders in Civil Engineering / Tunneling / Landfills

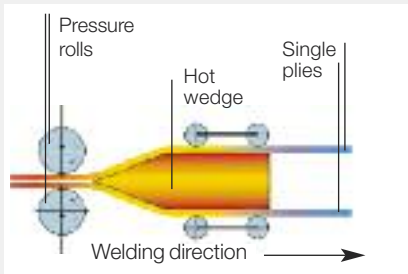
Hot air welding



Heating by hot air

- TRIAC DRIVE

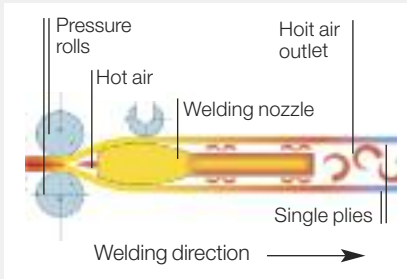
Hotwedge welding



Heating by electrically heated wedge

- ASTRO
- ASTRO USB
- COMET
- COMET USB



Combiwedge welding



Heating by hot air and hotwedge

- TWINNY T
- TWINNY T USB
- TWINNY S

Hot air tools for Civil Engineering / Tunneling / Landfills

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	TRIAC AT Accessories	12 / 13 16 / 17 / 18
	HOT JET S Accessories	20 20 / 21
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