



Comfortable work on the ground.

## Extrusion welder

### FUSION 3

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

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

#### Technical Data











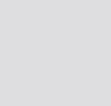
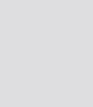
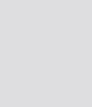






Voltage	V~	230
Power	W	3500
Material		PE / PP
Welding rod	∅ inch	0.12 or 0.16
Output (HDPE ∅ 0.16 inch)	lbs/h	3.5 – 7.2
Size (L × W × H)	inch	26.4 × 3.5 × 7.1
Weight	lbs	16 (without cord)
Conformity marking		CE
Approval mark		Ⓢ
Certification scheme		CCA
Protection class II		□

#### Article No.:

118.300 Extrusion welder FUSION 3, 230V / 3500W, Euro plug

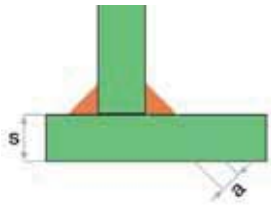
Included in delivery: FUSION 3, raw welding shoe, storage case

## Accessories FUSION 3

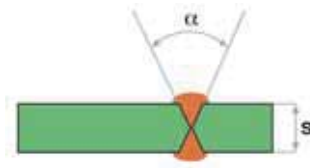
Welding shoes complete	
	<b>118.094</b> Blank welding shoe 2.0 × 1.2 × 1.5 inch
	<b>119.214</b> Blank welding shoe 2.8 × 2.0 × 1.9 inch
	<b>118.889</b> V-seam 0.3 / 0.4 and X-seam 0.6 / 0.8
	<b>119.202</b> V-seam 0.5 and X-seam 1.0 inch
	<b>119.203</b> V-seam 0.6 and X-seam 1.2 inch
	<b>119.204</b> V-seam 0.8 and X-seam 1.4 / 1.6 inch
	<b>119.205</b> V-seam 1.0 inch
	<b>118.885</b> Fillet weld 0.3 / 0.4 inch (a = 0.28 inch)
	<b>119.139</b> Fillet weld 0.6 inch (a = 0.4 inch)
	<b>119.140</b> Fillet weld 0.8 inch (a = 0.55 inch)
	<b>119.141</b> Fillet weld 1.0 inch (a = 0.7 inch)
	<b>118.890</b> Overlap 1.0 inch
	<b>119.185</b> Overlap 1.4 inch
	<b>129.008</b> Corner, short, 0.8 inch
	<b>129.010</b> Corner, long, 0.55 inch
	<b>134.567</b> Pre-heat reflector
	<b>134.567</b> Tool rest
	<b>113.268</b> Heating element, 230 V / 2200 W
	<b>123.173</b> Storage case

## Possibilities of welding seams

a = seam size s = material thickness  $\alpha$  = milling angle

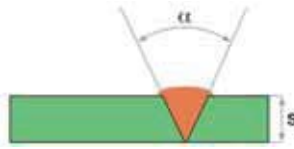


Fillet welding seam



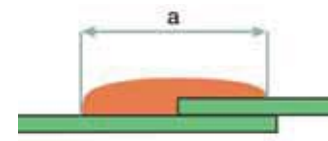
X-seam

s = 0.4 – 1.6 inch =  $\alpha$  60°  
s = 2.0 – 2.4 inch =  $\alpha$  50°



V-seam

s = 0.2 – 0.8 inch =  $\alpha$  60°  
s = 1.0 – 1.2 inch =  $\alpha$  50°



Overlap seam

## Product comparison

### Digitally regulated extrusion welders

### Air heated extrusion welders

### Compact extrusion welder



Device type	WELDPLAST S6	WELDPLAST S4	WELDPLAST S2	FUSION 3	FUSION 3C	FUSION 2	WELDMAX
Output (HDPE) lbs/h	8.6 – 13.2	3.3 – 8.8	1.3 – 5.0	3.5 – 7.7	3.5 – 7.7	2.9 – 4.0	0.7 – 1.8
Material	HD-PE, PP	HD-PE, PP	HD-PE, PP, PVC	HD-PE, PP	HD-PE, PP	HD-PE, PP	HD-PE, PP, PVDF
Wall thickness inch	0.6 – 1.6	0.3 – 1.4	0.16 – 0.8	0.3 – 1.0	0.3 – 1.0	0.24 – 0.6	0.16 – 0.4
Welding rod 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	12.8	15.9	15	13	8.4
Length inch	32.3	22	17.7	27	23	17.7	17
Voltage V~	230	230	230	230	230	230	120 / 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

### Remarks

- 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

### Output extrusion welders in overview

lbs/h

