

# POLYFUSION 3



The **POLYFUSION 3** is a **3-meter** wide and easy-to-use pneumatically driven mirror welding machine, suitable for welding plastic **sheets up to 50mm thickness (double wall 60mm)**. The welding process is CNC controlled by a PLC, which works according to DVS 2207. The machine can weld straight sheets together, perform 90° corner classes and weld cylinders from sheets.

The machine contains:

- Fold-out supports equipped with ball rollers
- Locking clamps that exert an evenly distributed pressure, to clamp thin, thick, short and long sheets, in different zones.
- LED lighting over the entire welding zone
- The Ritmo "AirPlus" system, which allows a welding cycle to end correctly, even if the external compressed air supply fails during the welding process.
- The "Adjusty" system determines by means of a number of values the distance at which the sheets are to be clamped in relation to the welding mirror. This has the advantage that with thin sheets no overlap is needed and with thick sheets there is still enough space for the shiver.
- A PLC controlled control panel on which the operator can very easily set and go through the welding parameters. It already contains many pre-programmed parameters, even double-walled sheets from the brands ROCHLING, SIMONA and PANELTIM.
- An unlimited internal memory for welding reports and own welding parameters. PDF reports can be downloaded via USB.

## TECHNICAL DATA

		<b>POLYFUSION 3</b>
Plate thickness range *	Mm	3 - 50 mm (twin wall 60 mm)
Maximum width plate *	Mm	3050 mm
Materials		HDPE, PP, PVC-U, PVC-C, PVDF, ECTFE
Power Supply		400 V Three Phase
Total power consumption	W	11500 W
Pressure range	Bar	-
Minimum air pressure	Bar	7 Bar - Flow rate 300 l/min
DVS 2207		Yes
LED lights		Yes
"Airplus" system (safety in case of pressure drop)		Yes
"Adjusty" system		Yes
Temperature setting range	°C	180°C / 250°C
Electronic thermoregulator		Yes
Straight weld		Yes
90° welding		Option
cylinder weld		Option (min Ø500 mm)
Double-walled sheets		up to 60 mm
Welding system		CNC
Moving the welding mirror		Automatic
Clamping sheets		Pneumatic
Locking 90° sheets		Pneumatic
Sliding control panel		-
Preset welding parameters		Yes
Self-adjustable welding parameters		Yes
Memory		unlimited
USB		Yes
PDF reports		Yes
Display		LCD 12"
Dimensions machine-base	L x W x H	4307 x 2673 x 1508 mm
Weight standard composition	Kg	2550 kg

\* The welding dimensions refer to PP/HDPE with welding pressure 0.17 N/mm2

## **MACHINE**

93500023 POLYFUSION 3 -(400V - 3~) Pneumatic CNC Sheet Welding Machine, 3m length, s=50mm

## **OPTIONS**

84303902 90° Angle Welding Device |  
80405012 BASIC KIT Sheet Rolling Device (4 MOTORS)  
80405010 PLUS KIT Plate for Rolling Device  
86523905 Pneumatic Booster  
88403915 Top Kit pneumatic sheet-pushing device  
84433901 Transport KIT for Heater sheets  
98850109 Car Transformer (18KVA 208-220-240/400Vac 3F)  
98850110 Car Transformer (18KVA 440-460-480/400Vac 3F)  
98850111 autotr. 18 kva 440-460-480/400Vac 3f