

# POLYFUSION 3-50



The **POLYFUSION 3-50** is a **3-meter** wide and easy to use hydraulic mirror welding machine, suitable for welding plastic **sheets up to 50mm thickness**. 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
- A control panel on which the operator can very easily set and go through the welding parameters. There are already many pre-programmed parameters in.
- An internal memory for 4000 welding reports and 15 own welding parameters. PDF reports can be downloaded via USB.
- The possibility of welding double-walled sheets

## TECHNICAL DATA

		<b>POLYFUSION 3-50</b>
Plate thickness range *	Mm	3 - 50 mm
Maximum width plate *	Mm	3000 mm
Materials		HDPE, PP, PVC
Power supply		400 V Three Phase
Total power consumption	W	12500 W
Pressure range	Bar	0 - 170 Bar
Minimum air pressure	Bar	10 Bar
dvs 2207		Yes
LED lights		Yes
"Airplus" system (safety in case of pressure drop)		-
"Adjusty" system		-
Temperature setting range	°C	180°C / 280°C
Electronic thermoregulator		Yes
Straight weld		Yes
90° welding		Option
cylinder weld		Option (min Ø700 mm)
Double-walled sheets		Yes
Welding system		CNC
Moving the welding mirror		Automatic
Clamping sheets		Hydraulic
Locking 90° sheets		Pneumatic
Sliding control panel		-
Preset welding parameters		Yes
Self-adjustable welding parameters		15
Memory		4000 cycles
USB		Yes
PDF reports		Yes
Display		LCD
Dimensions machine-base	L x W x H	4200 x 1540 x 1960 mm
Weight standard composition	Kg	2500 kg

\* The welding dimensions refer to PP/HDPE with welding pressure 0.17 N/mm<sup>2</sup>

## MACHINES

93500011 POLYFUSION 3-50 -(400V - 3~) Hydraulic CNC Sheet Welding Machine, 3 m length, s=50mm

## OPTIONS

84303451 90° Angle Welding Device |

80405008 Sheet Rolling Device