



**Ritmo**  
PLASTIC WELDING TECHNOLOGY

# POLYFUSION 3

## PNEUMATIC SHEET WELDING MACHINE





## **Pneumatic sheet welding machine POLYFUSION 3**

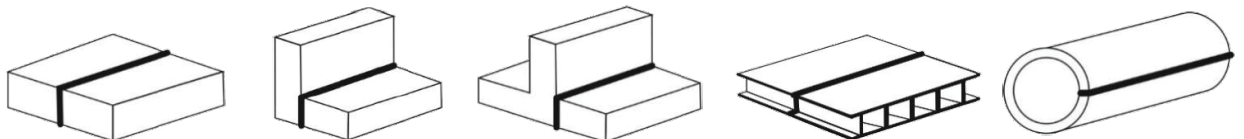
### **CNC welding cycle**

### **Compliant with welding standards DVS 2207**

PE (DVS 2207-1); PP (DVS 2207-11); PVC-U (DVS 2207-12); PVC-C (DVS2207-13); PVDF (DVS 2207-15)

**Weldable materials: sheet in PVC, PE, PP, PVDF; twin walls in PE and PP.**

**Welding range\* 3 ÷ 50 mm solid wall; max 60 mm twin walls**



- Folding lateral supports with bearing balls for the easy sheet movements
- High density of locking clamps: they provide an homogeneous pressure distribution capable of stopping both large and thin thicknesses sheets, and working with long or short sheets
- Led lights through the entire welding area
- New Ritmo "AirPlus" system allows to complete a welding cycle even in the event of an unexpected fault of the air supply in your building
- A PLC control panel allows the operator to program the working cycle quickly with the help of an intuitive touch screen
- Internal memory for unlimited number of welds
- Download report in PDF format
- USB port
- Unlimited welding pre-setting (customized or preferred) easy to be recalled
- Wide range of optionals and accessories to expand its functionality



## VERSATILE

- Welds up to 3 mt length
- Materials: PVC, PE, PP, PVDF
- Designed for both Solid-wall and twin-wall
- Three configurable clamps heights
- Welds from 3 mm to 60 mm thickness
- Suitable for small size sheets welding
- Working pressures: nominal 7 Bar - maximum 9,5 Bar
- Type of butt fusion welding:  
Straight  
90 ° welding \*  
T welding \*  
Circular welding \*

## PRECISE

- High density locking clamps that provide an homogeneous pressure distribution
- Led lights through the entire welding area
- Graduated scales to set the sheet in position
- Constant stabilizing pressure control
- Additional overboost to reach 9,5 bar configuration\*

## COMPLETE

- 4 independent welding areas
- CNC welding cycle
- Pre-setting store and recall parameters
- PLC control panel
- 12" touch screen
- Remote control and analysis
- Diagnostic feature
- Upgradable Software via USB

\* Accessory on request

## TECHNICAL FEATURES

Weldable materials	PE; PP; PVC-C; PVC-U
Sheet type	Solid wall, twin wall
Sheet max. width	3050 mm
Min. weldable thickness	3 mm (minimum width = 2 m)
Max. Welding thickness (straight and 90° welding only). Thickness in circular welding, may vary depending on the mechanical setting of the mean beam	Solid wall up to 50 mm* Twin wall up to 60 mm
Straight butt-fusion	v
90° or T shape butt-fusion **	v (solid wall only)
Circular welding ** Contact Ritmo for more information	v (solid wall only)
Sheet clamping	pneumatic in 4 sectors
Sheet clamping for 90° welding	vacuum and pneumatic in 4 sectors
Sheet clamping for circular welding	pneumatic in 4 sectors
Control Panel	PLC in fixed position
Coloured Display	LCD 12"
Welding cycle	CNC
Pre-set recall	v
PDF Reports	v
Memory	limitless
Power supply	400 V Three Phases 50÷60 Hz
Absorbed power	11.5 kVA
Working temperature	180° ÷ 250° C
Maximum thrust	600 N
Maximum thrust at 7 Bar	15.65 kN
Maximum thrust at 9,5 Bar	22.87 kN
Minimum requirements pneumatic supply	7 Bar capacity= 300 l/min
Maximum requirements pneumatic supply	9,5 Bar
Machine sizes (standard configuration with opened supports)	4307 x 2673 x 1508 mm
Weight	2550 Kg

\*\* on request

\* at 7 bar the 50 mm PE (0.15N / mm<sup>2</sup>) can be welded with max width = 2 m. The 50 mm PP (0.10N / mm<sup>2</sup>) can be welded with max width = 3 m  
at 9.5 bar the 50 mm PE (0.15N / mm<sup>2</sup>) can be welded with max width = 3 m. The 50 mm PP (0.10N / mm<sup>2</sup>) can be welded with max width = 3 m

### RITMO S.P.A

Via A Volta, 35/37 - Bressio di Teolo (Padova) Italy

Ph. + 39 049 9901888 Fax +39 049 9901993 - info@ritmo.it - www.ritmo.it