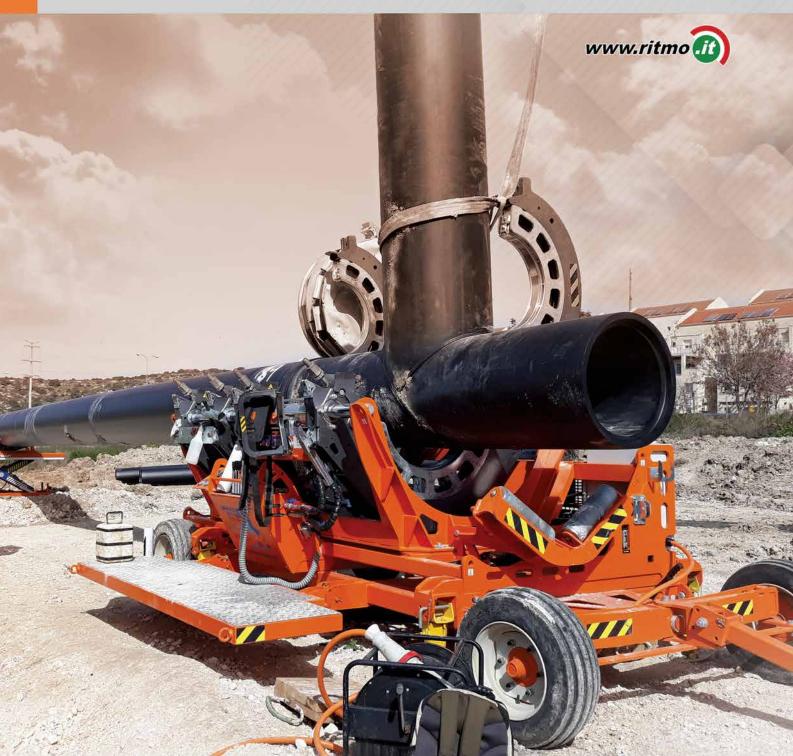


PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"





Ritmo meets all your welding needs in your jobsite



The information and photos in this publication are not binding and RITMO S.P.A. is free to make any alterations without prior notice.



DVANTAGE RITMO



RITMO WORLDWIDE

Ritmo has professional distributors and resellers all over the world. Our staff is ready to assist you in English, Spanish, French, German, Arab, Italian, Russian and Portuguese.

TRAINING

From many years now, we have decided that the best way to grant a client/ distributor a perfect knowledge of our products Is to invest in custom training, in our own premises. These courses are aimed to teach how to operate the products in the best way, and how to supply the "first aid" when necessary.

PRESALES TECHNICAL ASSISTANCE

When a client or a potential client wants to buy us a product, it is our standard procedure to help find the best solution to its needs.

GLOBAL ADVICE

In such a technical field as ours, the customer requires the best assistance. Thanks to the experience developed along the years, and to the co-operation with several manufacturers, institutions, schools and training institutes, RITMO is able to give the most comprehensive advice to no matter which related issue. Our company is a long-time member of a UNIPLAST's (UNI-Italian National Plastics Standards Body) working group dedicated to the study and draw up of new standards within our field. The importance of this group is linked to the fact that the expansion of the plastic welding field ought to be followed by a crescent sensitivity for safety issues, so to have a sustainable and continuous growth. The working group prepares draws, hence present them to the UNI to be discussed and eventually transformed into new standards.

AFTER SALES TECHNICAL ASSISTANCE

Ritmo's Service Centre can solve all kind of technical issues, as well as overhaul our machines. Ritmo has other Service Centres abroad, linked to its official distributors.

STARTING AND TESTING

RITMO' technicians are prepared to make the starting and testing of workshop machines at the client' own premises, so that the fittings production can start almost immediately.



PLASTIC FABRICATION SHEET WELDING







POLYFUSION 4

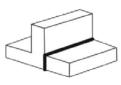
Pneumatic sheet welding machine CNC welding cycle Compliant with welding standards DVS 2207

PE (DVS 2207-1 : 2015); PP (DVS 2207-11 : 2017); PVC-U (DVS 2207-12 . 2016); PVC-C (DVS2207-13 . 2012); PVDF (DVS 2207-15 . 2008)

Weldable materials: sheet in PVC, PE, PP, PVDF; twin walls in PE e PP. Welding range 3 \div 50 mm solid wall; max 60 mm twin walls











- Folding lateral supports with bearing balls for the easy sheet movements
- High density 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 a unexpected fault of the air supply in your building
- The "Adjusty" system automatically adjusts the distance between heating plate and machine edge according to the thickness of the sheets. With thin sheets the system permits a welding without overlapping while for thick sheets enough space for the bead is guaranteed
- 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 jwelds
- Download report in CSV format
- USB port
- Unlimited welding pre-setting (customized or preferred) easy to be recalled.
- Wide range of optionals and accessories to expand its functionality





TECHNICAL FEATURES

Materials*	PE; PP; PVC-C; PVC-U; PVDF Twin Wall sheets			
Welding cycle	CNC			
Power supply	400 V Three Phase 50/60 Hz			
Total absorbed power	13600 W			
Types of welding	Straight 90° (on request) ** Circular (on request) ** min Ø 500 mm - 19.6" For details contact RITMO S.P.A.			
Max. working width ***	4050 mm - 13.2 ft			
Min. weldable thickness	3 mm - 1/8"			
Max. weldable thickness ***	solid 50 mm - 2" twin wall 60 mm - 2.3"			
Minimum requirements pneumatic supply	7 Bar capacity = 300 I/min			
Memory	limitless cycles			
Report	CSV			
Machine sizes (standard configuration with opened supports)	5320 x 2673 x 1508 mm 17.4 x 8.7 x 4.9 ft			

^{*} Contact RITMO

** The minimum diameter is calculated based on the geometric characteristics of the machine. The range of diameters that can be produced and their thickness are bound to the use of external systems such as overhead cranes, forklifts etc. and the permissible strain of the outer fibers of the material. Refer to the material datasheet of the manufacturer for further information in this regard.

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





PRODUCTS OVERVIEW

	MANUAL				PNEUMATIC		HYDRAULIC			
MODELS	POLYFUSION 1-25	POLYFUSION 2 - 25	POLYFUSION 2 - 50	POLYFUSION 2-100	POLYFUSION 3	POLYFUSION 4	POLYFUSION 3 - 30	POLYFUSION 3 - 50	POLYFUSION 4 - 30	POLYFUSION 4-50
Min. weldable thickness	2 mm 1/8"	3 mm 1/8"	3 mm 1/8"	3 mm 1/8"	3 mm 1/8"	3 mm 1/8"	3 mm 1/8"	3 mm 1/8"	3 mm 1/8"	3 mm 1/8"
Max. weldable thickness ****	25 mm 1"	25 mm 1"	50 mm 2"	100 mm 4"	50 mm 2"	50 mm 2"	30 mm - 1.18"	50 mm 2"	30 mm 1.18"	50 mm 2"
Max working width ****	1 m 3.28 ft	2 m 6.56 ft	2 m 6.56 ft	2 m 6.56 ft	3050 mm 10 ft	4050 mm 13.2 ft	3 m 9.84 ft	3 m 9.84 ft	4 m 13.12 ft	4 m 13.12 ft
Materials**	HDPE; PP,	HDPE; PP,	HDPE; PP,	HDPE; PP,	HDPE; PP, PVC-C, PVC-U ** PVDF	HDPE; PP, PVC-C PVC-U ** PVDF	HDPE; PP, PVC **	HDPE; PP, PVC **	HDPE; PP, PVC **	HDPE; PP, PVC **
Twin wall sheets	٧	٧	٧	٧	√ up to 60 mm	√ up to 60 mm	٧	٧	٧	٧
Welding line	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧
Welding 90° (A)	٧	٧	٧	-	٧	٧	٧	٧	٧	٧
Welding circular (A) *** Contact RITMO S.P.A.		-	-	-	min Ø 500 mm needs optional kit	min Ø 500 mm needs optional kit	min Ø 500 mm needs optional kit	min Ø 700 mm needs optional kit	min Ø 500 mm needs optional kit	min Ø 700 mm needs optional kit
Sheet locking clamps	mechanical manual	mechanical manual	mechanical manual	hydraulic	pneumatic	pneumatic	hydraulic	hydraulic	hydraulic	hydraulic
Locking 90° sheets	mechanical	mechanical	mechanical	mechanical	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic
Adjusted control panel	٧	٧	٧	٧	-	-	-	-	-	-
Heating plate lift	mechanical manual	mechanical manual	mechanical manual	mechanical manual	automatic	automatic	automatic	automatic	automatic	automatic
Welding System	manual hydraulic	manual hydraulic	manual hydraulic	manual hydraulic	CNC	CNC	CNC	CNC	CNC	CNC
PRE-SET customized welding cycles	-	-	-	-	٧	٧	٧	٧	٧	٧
Report	-	-	-	-	CSV	CSV	PDF	PDF	PDF	PDF
Memory	-	-	-	-	limitless reports	limitless reports	4000 reports	4000 reports	4000 reports	4000 reports
Display	-	-	-	-	LCD 12"	LCD 12"	LCD	LCD	LCD	LCD

⁽A) On request

^{**} Contact RITMO

^{***}The minimum diameter is calculated based on the geometric characteristics of the machine. The range of diameters that can be produced and their thickness are bound to the use of external systems such as overhead cranes, forklifts etc. and the permissible strain of the outer fibers of the material. Refer to the material datasheet of the manufacturer for further information in this regard.

^{****} The welding dimensions refer to PP / HDPE with welding pressure of 0.17 N / mm2



MAIN APPLICATIONS

- Mining technology
- Building industry
- Mechanical engineering
- Livestock breeding
- Aquaculture and swimming pools
- Chemical engineering and tank building
- Surface treatment metals
- Buffer tanks
- Beverage and food industry
- Pump manufacturing
- Ventilation system and ventilator manufacture
- Environment and waste water tanks
- Nautical sector



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