

RITMO AMERICA



"AT EASE IN YOUR JOBSITE"

www.ritmoamerica.com





RITMO S.P.A. is a world leader with over 35 years of experience in the manufacturing of plastic welding equipment. All products are designed and built according to International standards and directives (UNI, ISO, CEE). Since the very beginning, quality and technology innovation are RITMO's milestones, and time after time, this philosophy is always more recognized by the global market. RITMO strong points are its ideas to design and produce accurate, fast, versatile, modular and easy-to-use welding machines. Products range includes butt fusion, electrofusion and extrusion equipment. Ritmo is also providing a complete line of accessories and useful instruments for pipe cutting and weld preparation such as the band saws. RITMO's regards towards the client has brought to the new-born "RITMO FUSION OPERATOR SCHOOL", which is a welding school with the goal of building qualified personnel and spread the knowledge about the technical potentiality of RITMO's equipment: **TECHNOLOGY MADE IN ITALY.**

MADE IN ITALY

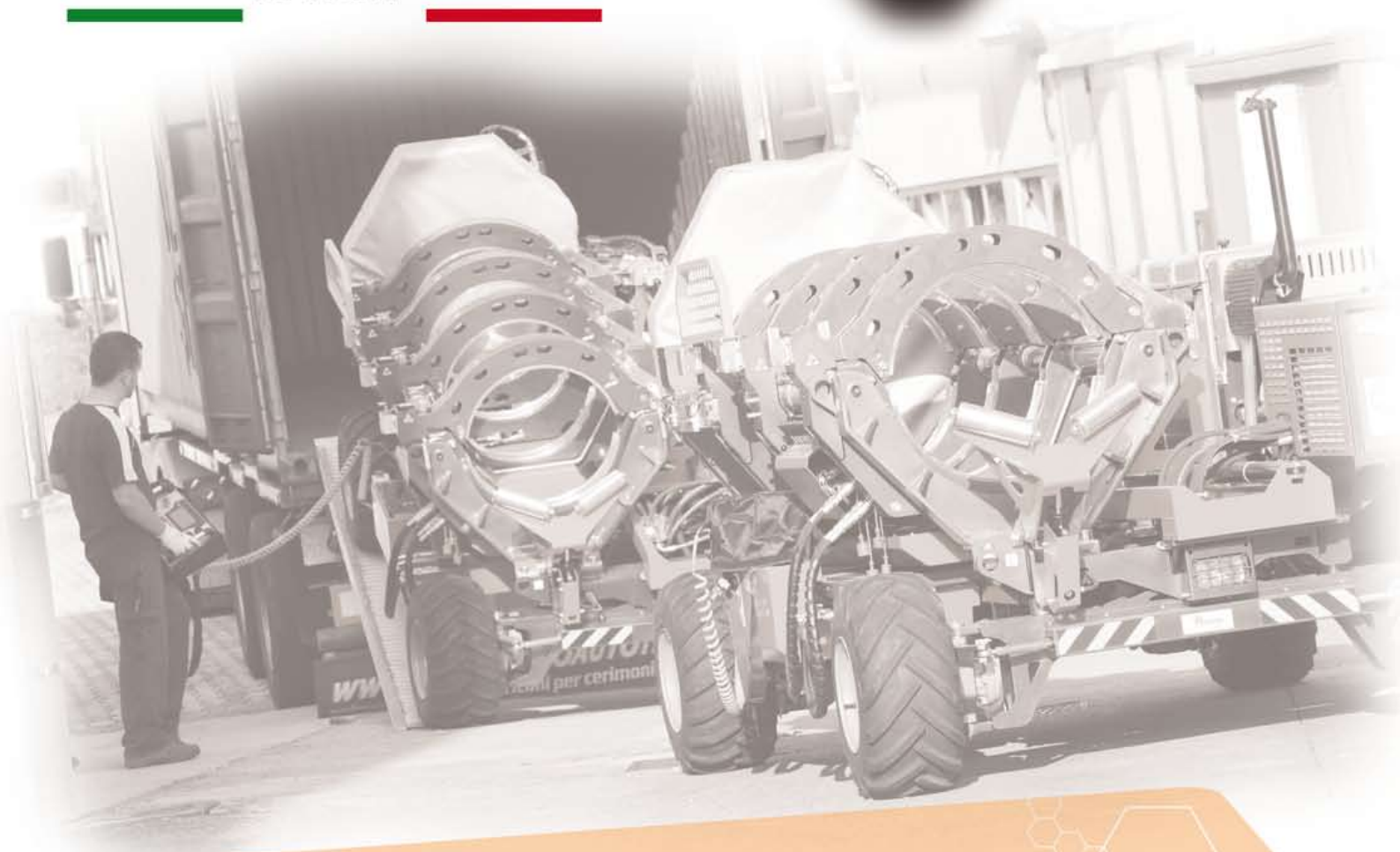
**DESIGNED & MANUFACTURED
IN ITALY**



watch the video



**ISO 9001
Quality System**





Ritmo America LLC - FL

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Rossella Contiero - Managing Director



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A

D V A N T A G E

RITMO SERVICE

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



OUTPUT

MODEL	4,85 lb/h	7,05 lb/h	9 lb/h	11 lb/h
R-SB 20	•			
R-SB 30	•	•		
R-SB 40	•	•	•	
R-SB 50	•	•	•	•



watch the video



CUSTOMIZED PLASTIC FABRICATION USING THE STARGUN

RITMO presents **STARGUN**, the line of handy and easy to use extruder welders. All models distinguish for being light, compact and very smooth during the welding phase. The entire line is supported by a series of interchangeable Teflon[®] shoes which allow the STARGUN to adapt to every kind of welding situation: from plane sheets to oblique angles. Thanks to their versatility they are able to weld different types of fabrications like: containing tanks, fume treatment towers, scrubbers, chemical hoods, aspiration systems, and for joining linings and geo-textiles. All the models can be provided with different types of handle which allow to customize the extruder in order to give to the operator a high-performance instrument.

In the chart below find the main characteristics that make of the STARGUN a unique instrument.



Multifunction display for double thermoregulator settings and hour counter



High-intensity LEDs illuminating the extrusion area in dark places



360° rotating Teflon[®] shoe



Motor trigger and welding speed adjustment



Built-in blower: reduce weight and overall dimensions of the extruder



360° rotating side-handle



Welding rod dispenser (on request)



Extruder support



Transport box (ON REQUEST) for R-SB 20 - 30



Transport box for R-SB 20 - 30 - 40 - 50

R - SB 20



R - SB 30



R - SB 20 is a compact and ergonomic extruder. It's the smallest of the STARGUN series and it's perfect for working in narrow places thanks to the easy handling and the reduced overall dimensions.

R - SB 20 is equipped with an extrusion output regulator and a safety system that allows the operator to work only after the right temperature has been reached. It is capable of up to 4,85 lb extruded material for hour.

- Backlight display
- Welding - area spot light LEDs
- Output regulator
- Power regulation "motor stop" safety system
- Built - in blower
- Double T° controller blower/extrusion chamber
- Rotating side - handle
- Replaceable 360° rotating teflon shoe

Supplied with:

Plastic case, extruder support, rod guide \varnothing 1/8" and \varnothing 5/32", 90° teflon shoe, teflon block and teflon flat shoe

Materials	HDPE/PP/PVDF
Rod	\varnothing 1/8" - 5/32"
Output: up to	4,85 lb/h
Dimensions	17" x 11" x 4"
Weight	14,4 lb
Voltage	230 V
Absorption	3150 W
Frequency	50 Hz
Sheets	5/32" - 3/4"

R - SB 30 is a compact and precise extruder which adds to the R - SB 20's characteristics a higher extrusion capacity: 7,05 lb/h of extruded material.

R - SB 30 is equipped with an extrusion output regulator, a safety system that allows the operator to work only after the right temperature has been reached, display for temperature setting and spot light LEDs to illuminate the welding area.

- Backlight display
- Welding - area spot light LEDs
- Output regulator
- Power regulation "motor stop" safety system
- Built - in blower
- Double T° controller for blower/extrusion chamber
- Rotating side - handle
- Replaceable 360° rotating teflon shoe

Supplied with:

Plastic case, extruder support, rod guide \varnothing 1/8" - 5/32" - 3/16", 90° teflon shoe, teflon block and teflon flat shoe

Materials	HDPE/PP/PVDF
Rod	\varnothing 1/8" - 5/32" 3/16"
Output: up to	7,05 lb/h
Dimensions	20" x 11" x 4"
Weight	15,4 lb
Voltage	230 V
Absorption	3350 W
Frequency	50 Hz
Sheets	5/32" - 1/4"



OUTPUT: up to 9 lb/h

R - SB 40



HANDLE



Back handle

R - SB 40 is a powerful but compact extruder, available with several handle types to give the operator a more practical, efficient and versatile instrument.

R - SB 40 is lighter if compared to our competitor's equivalent model; this characteristic makes of our extruder an indispensable and irreplaceable instrument when it goes about jobs in which high performances and handling are required. It is equipped with a safety system that allows the operator to work only after the right temperature has been reached and spot light LEDs to illuminate the welding area. R - SB 40 is capable of up to 9 lb/h of extruded material.

- Backlight display
- Welding - area spot light LEDs
- Output regulator (for back handle and Pistol grip)
- Temperature control safety system cold start control
- Built - in blower
- Double T° controller for blower and extrusion chamber
- Rotary side - handle
- Replaceable 360° rotating teflon shoe

Supplied with:

Aluminium case, extruder support, rod guide \varnothing 5/32" - 3/16", 90° teflon shoe, teflon block and teflon flat shoe



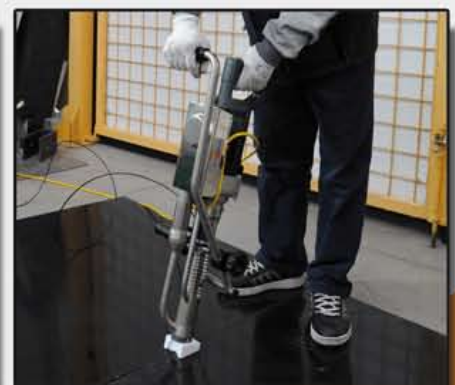
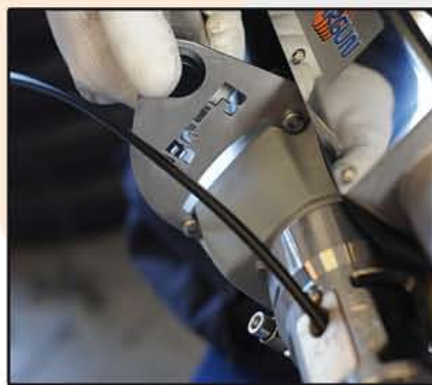
Pistol grip



Side handle

Materials	HDPE/PP
Rod	\varnothing 5/32" - 3/16"
Output: up to	9 lb/h
Dimensions (back handle)	25" x 7" x 4"
Weight	16 lb
Voltage	230 V
Absorption	3300 W
Frequency	50 Hz
Sheets	1/3" - 1/4"

Handle for liners and geo-textiles



R - SB 50



HANDLE



Pistol grip

R - SB 50 is a powerful extruder indispensable for jobs that require a high output of extruded material.

R-SB 50 is suitable for joining linings and geo-textiles, sheets, thick pipes and for all those welds that are required to resist to continuous stress. During the welding phase the extruder is very smooth and handy. Like the other models, R - SB 50 is equipped with the safety system that allows the operator to work only after the right temperature has been reached; display for temperature setting and spot light LEDs to illuminate the welding area. It is capable of up to 11 lb/h of extruded material.

- Backlight display
- Welding - area spot light LEDs
- Temperature control safety system cold start control
- Built - in blower
- Double T° controller for blower and extrusion chamber
- Rotating side - handle
- Replaceable 360° rotating teflon shoe
- Turnable side-handle
- Replaceable 360° rotating teflon shoe

Supplied with:

Aluminium case, extruder support, rod guide \varnothing 5/32" - 3/16", 90° Teflon shoe, teflon block, teflon flat shoe, teflon shoe and handle for line/geotextiles

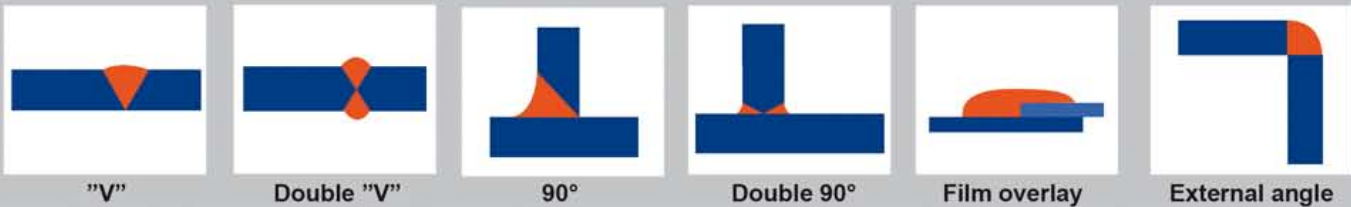
Materials	HDPE/PP
Rod	\varnothing 5/32" - 3/16"
Output: up to	11 lb/h
Dimensions (Pistol-grip)	23,6" x 13" x 3,9"
Weight	19,8 lb
Voltage	230 V
Absorption	4000 W
Frequency	50 Hz
Sheets	1/2" - 1,57"







Handle for liners and geo-textiles



Possibilities of welding seams



PRODUCTS OVERVIEW

				
Models	R - SB 20	R - SB 30	R - SB 40	R - SB 50
Material	HDPE, PP, PVDF	HDPE, PP, PVDF	HDPE, PP	HDPE, PP
Output Kg/h	4,85 lb/h	7,05 lb/h	9 lb/h	11 lb/h
Rod	1/8" - 5/32"	1/8" - 5/32" - 3/16"	5/32" - 3/16"	5/32" - 3/16"
Weight	14,4 lb	15,4 lb	16 lb	19,8 lb
Dimensions (mm)	17" x 11" x 4"	20" x 11" x 4"	Pistol grip 21" x 11" x 4" Back handle 25" x 7" x 4" Side handle 21" x 6" x 4"	Pistol grip 21" x 11" x 4" Back handle 25" x 7" x 4"
Voltage	230	230	230	230
Maximum absorbed power	3150 W	3350 W	3300 W	4000 W
Geo-textile		✓	✓	✓
Container construction	✓	✓	✓	✓
Building of tanks and filters	✓	✓	✓	✓
Building of fumes treatment towers	✓	✓	✓	✓

RELATED SERVICES

RITMO offers turnkey solutions to its customers: welding rods and rod dispensers are available

Welding rods:

HDPE Ø 5/32" - 3/16" mm

PP Ø 1/8" - 5/32" mm



Available welding shoes (custom design on request)



Geomembrane teflon shoe

Teflon block

Flat teflon shoe

90° teflon shoe

90° narrow teflon shoe

SPECIAL SHOES



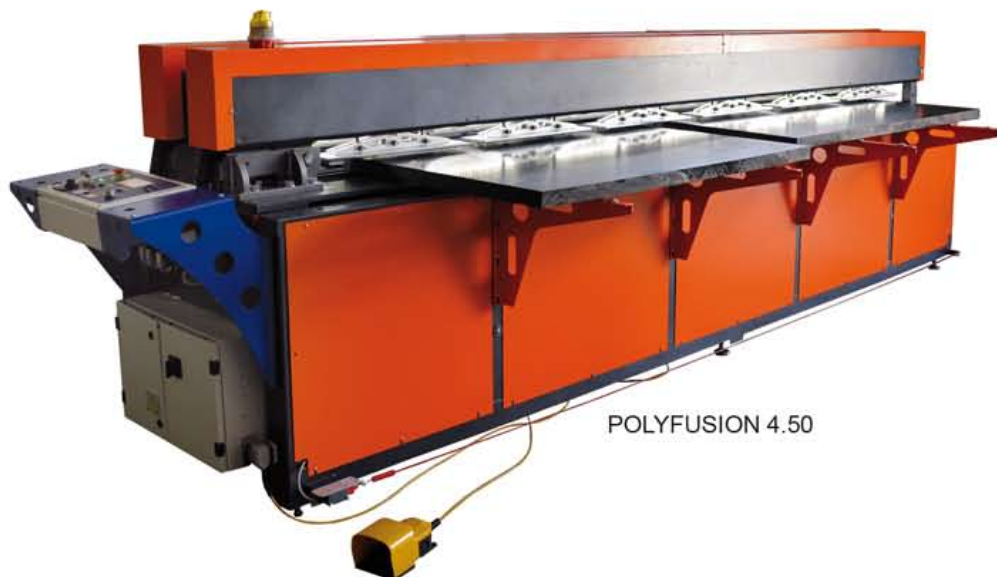
Corrugate

45°

90°

360°





POLYFUSION 4.50



watch the video

POLYFUSION 3.50 and **POLYFUSION 4.50** are CNC automatic butt fusion machines, suitable for welding thermoplastic sheets made of HDPE, PP, PVC, PVDF. The machines are designed according to D.V.S. 2208, and can operate in compliance with the D.V.S. 2207.

POLYFUSION is an hydraulic welding machine equipped with a control panel, which allows easily and safely setting and performance of the whole welding process.

According to the user's needs, it is also possible to input the type of material and the dimension of the thermoplastic sheet, and therefore proceed to weld. Each welding cycle is automatically memorized, and it's possible to save it both in digital and paper format.

These machines can be operated both horizontally and vertically, which allow to perform different types of weld (horizontal, circular and vertical joints).

The butt fusion machine is also able to weld twin-wall HDPE and PP sheets.

TECHNICAL FEATURES

Models	POLYFUSION 3.50	POLYFUSION 4.50
Weldable materials	PVC, PP, PVDF, HDPE	PVC, PP, PVDF, HDPE
Max. working width ¹ (mm)	3000	4000
Min. weldable thickness (mm)	3	3
Max. weldable thickness ¹ (mm)	50	50
Types of welding	Plane, circular, 90°	Plane, circular, 90°
Power supply	400 V Th. Phase 50/60 Hz	400 V Th. Phase 50/60 Hz
Max. absorbed power	12500 W	14500 W
Compress air supply	10 BAR	10 BAR
Dimensions (mm)	4200 x 1540 x 840 (folded brackets) 4200 x 1540 x 1960 (unfolded brackets)	5200 x 1540 x 840 (folded brackets) 5200 x 1540 x 1960 (unfolded brackets)

¹ The welding dimensions refer to PP / HDPE with welding pressure of 0.17 N / mm²

Types of welding



POLYFUSION

MANUAL WELDER



POLYFUSION 1.0 - 25

POLYFUSION manual welder is a compact and easy to use for HDPE and PP sheets from one to two meters wide and 2 mm to 25 thickness. The welding cycle is handled by a control panel which commands the hydraulic gearcase; "Dual Pressure" welding is also feasible. The control panel can be adjusted horizontally to assist the operator.

The sheets are fixed to the machine body by manual handwheels; the locking arm has an articulated joint that allows its opening and the easy extraction of the welded sheets. The working surface of the machine body has a graduated scale on both sides, which speeds the positioning and centering of the pieces to be welded.

The manual heating plate, located under the machine body, has a height adjustment handwheel. The temperature is controlled by a built-in high-precision electronic thermoregulator, "Digital Dragon". The welding machine has a small modulated sustaining frame to perform 90 ° weldings. Circular welding is possible with an optional device, being the minimum achievable diameter of 300 mm (ref. to thin sheets). The machine can also weld twin-wall HDPE sheets.

There's a practical shelf at the base of the steel frame, which can be used to place some tools. POLYFUSION 1.0 - 25 is available in 230 V (110V on request).

TECHNICAL FEATURES

1.0 - 25

Weldable materials	HDPE - PP
Temperature Working	180° ÷ 280° C
Power supply	* 230 V Single Ph 50/60 Hz
Max. absorbed power	1580 W
Types of welding	line, 90°, circular (OD min 300 mm)
Max. working width	1000 mm
Min. weldable thickness	2 mm
Max. weldable thickness	1"
Total piston area	8.04 cm ²
Pressure working range	0 ÷ 150 bar
Dimensions W x D x H	1420 x 900 x 1190 mm
Weight	118 Kg

* on request 110 V





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