

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

RITMO

AMERICA

www.ritmoamerica.com



Rossella Contiero - Managing Director



Follow RITMO on



www.youtube.com/user/RitmoPlasticWelding

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.

BUTT FUSION MACHINES



WORKING RANGE

MODEL	IPS	DIPS	1	1¼	1½	2	3	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	40	42	48	54	60	63			
DELTA 160 M																																		
BASIC 160 EASY LIFE																																		
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DELTA 1200																																		
DELTA 1600																																		
IPS	DIPS	1	1¼	1½	2	3	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	40	42	48	54	60	63				

● On request



DELTA DRAGON 250 B DELTA DRAGON 315 B



Self-aligning hydraulic butt fusion machines, suitable for welding under-pressure pipes for water, gas and other fluids. Built according to the International standards (UNI 10565, ISO 12176-1), **DELTA DRAGON 250 B** and **DELTA DRAGON 315 B** includes.

A machine body able to assume two working position: inclined or horizontal. The rotation of the machine body INCLINED/HORIZONTAL is very fast, by adjusting only 4 screws on the machine frame is possible to choose the best configuration for the working conditions. It comes with the **fast-locking-adapters system SMARTLock patented by Ritmo** (with master adapters DELTA DRAGON 315 B), which speed up the welding preparation time without using any additional equipment. It features a device (applicable on every welding configuration: between the 2nd and 3rd clamps or 3rd and 4th clamps) which allows the automatic detach of the heating plate from the pipes/fittings. Two rollers can be lodged very quickly on the sides of the machine body. These accessories allow lifting up the welded pipes to make them roll and quickly prepare a new weld.

- **A Teflon-coated (PTFE)** heating plate with a built-in independent thermometer, to check the working temperature, and an high-precision electronic thermoregulator "Digital Dragon" ($\pm 1^\circ\text{C}$) with digital display and regulating buttons. This new system includes Led indicators to check if the machine is working normally (live tension and working temperature), contingent probe's failures and/or temperature anomalies.

- **A facer** that is equipped with a safety micro-switch to prevent from accidental starts, a thermal circuit breaker to protect the engine and also features an ergonomic docking system and on/off switches.

- **An electrohydraulic gearcase** protected from crashes and atmospheric corrosion by a plastic box. It includes a control lever to open and close the clamps, maximum pressure and discharge valves (useful also for the "Dual Pressure" welding process), hydraulic connection hoses with non-drip fast couplings and timer (to check the warming and welding time).

- **A facer/heating plate support** which comes with a high-temperature-proof bag, which also avoid the heating element from being scratched.

DELTA DRAGON 250 B and **DELTA DRAGON 315 B**, thanks to the machine body configurations, are able to weld fittings like elbows, tees, Y-branches and flanges necks. Available in the 120 V and 230 V versions.

STANDARD COMPOSITION:

- Machine body with bag and service keys
- Heating plate TP DELTA TE
- Facer
- Electrohydraulic gearcase
- Facer/Heating plate support



Machine body trolley

TECHNICAL FEATURES

DELTA DRAGON 250 B

DELTA DRAGON 315 B

Working range	2" IPS + 8" DIPS 75 + 250 mm		3" IPS + 10" DIPS 90 + 315 mm	
Power supply	120 V	230 V	120 V	230 V
	Single phase - 50/60 Hz		Single phase - 50/60 Hz	
Total absorbed power	3470 W	3470 W	3900 W	4500 W
Working temperature	356° + 536° F		356° + 536° F	
Outside temperature range	14° + 104° F		14° + 104° F	
Time to reach welding temperature	< 20 min.		< 20 min.	
Materials	HDPE, PP, PB, PVDF <small>For other materials contact RITMO S.P.A.</small>		HDPE, PP, PB, PVDF <small>For other materials contact RITMO S.P.A.</small>	

DIMENSION (W x D x H)				
Machine body	39" x 21" x 16"		45" x 20" x 21"	

WEIGHT				
Machine body	127,8 lb		189,5 lb	
Standard composition	260 lb		352,5 lb	

ON REQUEST (ACCESSORIES)

- Delta Dragon 250 B Clamps' inserts from Ø 2" IPS to 8" IPS mm; Ø 3" DIPS to 10" DIPS; Ø 75 to 225 mm
- Delta Dragon 315 B Clamps' inserts from Ø 3" IPS to 10" IPS with 250 mm Master adapters
Ø 3" DIPS to 10" DIPS with 250 mm Master adapters
Ø 90 to 280 mm with 250 mm Master adapters
- Tool to weld flange necks/stub-end holder
- Roller kit with lever applicable on the sides of the machine body
- Rollers
- Clamps' wooden transportation box
- Machine body trolley
- THE INSPECTOR Data-logging



BRAZIL



ROLLERS



ROLLERS 355

This device is essential for supporting the pipes while they are being welded with the butt fusion machines. The roller minimizes pipe friction and drag force independently of the jobsite conditions.

- **ROLLER 355** can sustain pipes up to Ø 14" IPS (355 mm). Easy to use and light
- **ROLLER 1000** can sustain pipes from up to 36" DIPS (1000 mm). The structure is light, so it is easy to carry and can be disassembled and reassembled in a few steps. This feature allows to store up to eight rollers in a single pallet thus improving transportation and logistics. Another advantage is the misalignment of the rollers in order to move the pipe easily even with the presence of weld beads. Working range from Ø 10" DIPS to 36" DIPS (315 to 1000 mm).

STANDARD EQUIPMENT

- Complete roller with tools

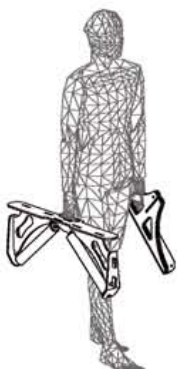
TECHNICAL FEATURES

ROLLERS 355
Working range up to 14" IPS $0 \div 355$ mm
Dimensions 14,2" x 7,8" x 7,8"
Weight 29 lb

ROLLERS 1000
Working range 10" + 36" DIPS $315 \div 1000$ mm
Dimensions 41" x 23,6" x 12,6"
Weight 59,5 lb



ROLLERS 1000



INTERNAL DEBEADER



watch the video

Internal Debeader by RITMO S.p.A. covering a range from Ø 3" IPS* (90 mm) up to 18" IPS* (500 mm).
A complete kit set is composed by:

- 6 pcs of alloy rods 2,15 mtr each (one is acting as turn handle)
- 5 pcs of center rings to ensure that the rods are in center of the pipe.
- Alloy rods are delivered in a special carrying bag with a handle
- **Internal Debeader Head 90 - 110**
INCH nominal 3,54"- 4,33"; 3" IPS; 90 ÷ 110 mm
- **Internal Debeader Head 125 - 160**
INCH nominal 4,92"- 6,29"; 4" - 5" IPS; 125 ÷ 160 mm
- **Internal Debeader Head 160 - 200**
INCH nominal 6,29"- 7,87"; 5" - 6" IPS; 160 ÷ 200 mm
- **Internal Debeader Head 225 - 315**
INCH nominal 8,85"- 12,40"; 8" - 10" IPS; 225 ÷ 315 mm
- **Internal Debeader Head 355 - 500**
INCH nominal 13,97"- 19,68"; 12" - 14" - 16" - 18" IPS; 355 ÷ 500 mm

Internal Debeader Heand can be ordered separately too.

ADVANTAGES:

Intuitive and easy to use, accurate, versatile, composed of few parts.

TECHNICAL FEATURES

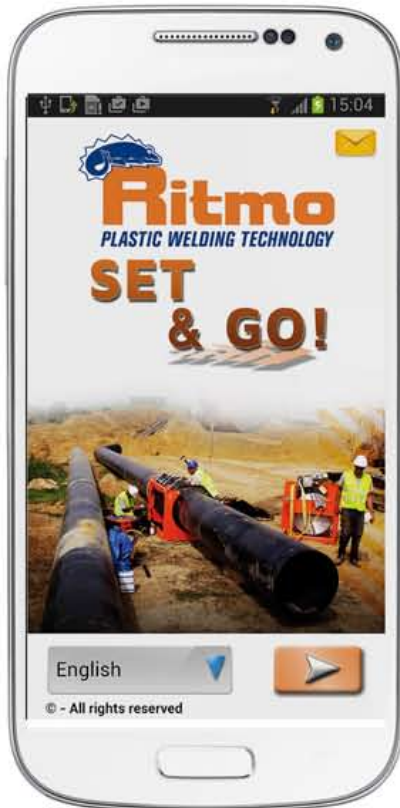
Model	SDR range
Ø 90 mm	17 ÷ 26
Ø 110 ÷ 450 mm	11 ÷ 26
Ø 500 mm	17 ÷ 26

* Contact us or your distributor for reference chart of SDR covered



DOWNLOAD

SET & GO!



APP developed by RITMO for its butt fusion machines.

“SET & GO” calculates the welding parameters in a simple, fast and useful way.

Through easy steps, like selecting the machine model, setting up the pipe data and choosing the welding standard, “SET & GO” tells you immediately your welding parameters!

The welding cycle is assisted and guided, step-by-step, by a handy timer with countdown function

“SET & GO” ...set to the future!



BUTT FUSION MACHINES REFERENCE

MODEL	32	40	50	56	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600	
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BASIC 160 EASY LIFE																															
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Millimeters	32	40	50	56	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600	





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the Corporate Video