

# PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

[www.ritmo.it](http://www.ritmo.it)





# 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.



# A 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.

# RITMO'S BUTT FUSION MACHINES: WORK PHILOSOPHY AVAILABLE TO EVERYONE!

## - **MANUAL**

welding machines without hydraulic gearcase



## - **HYDRAULIC**

welding machines with hydraulic gearcase



## - **EASY LIFE SYSTEM** *HIGH LEVEL PERFORMANCE*

automated welding cycle

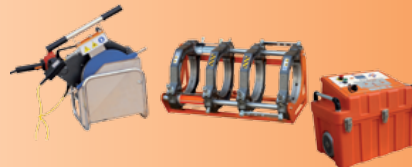
welding machines with special hydraulic gearcase

Hardware and Software interact to the entire workflow

repetition of welding cycles

GPS, data-logging and report PDF,

APP "SET & GO PRO" (optional)



## - **ALL TERRAIN** *HIGH LEVEL PERFORMANCE*

self-contained generator on board

self-propelled

trolley with wheels

welding machines with special hydraulic gearcase

automated welding cycle

Hardware and Software interact to the entire workflow

repetition of welding cycles

GPS, data-logging and report PDF,

APP "SET & GO PRO" (optional)



## - **CNC** *HIGH LEVEL PERFORMANCE*

automatic welding cycle

special hydraulic gearcase and machine body with

integrated mechanical extraction of heating plate

Hardware and Software interact to the entire workflow

repetition of welding cycles

GPS, data-logging and report PDF





## DELTA 500

This is a self-aligning machine, suitable for welding ducts for the transport of water, gas and other fluids under pressure, up to  $\varnothing$  500 mm 18" DISP). The DELTA 500 was designed in accordance to the International correspondent standards (UNI 10565, ISO 12176-1), and consists of:

- A machine body with a steel bearing frame, four steel clamps and two hydraulic thrust cylinders with non-drip quick couplings and steel inserts.
- Self detaching device: helps removing the heating plate during welding procedure.
- An extractable heating plate with separate thermometer for reading the working temperature.
- An extractable electric milling cutter for leveling the ends of the pipe and/or fitting, with a safety microswitch and overload cutout. Milling cutter's plastic control box is protected by a metal frame, and equipped with a fast removing system to speed up the extraction from machine body.
- An electrohydraulic gearcase with a clamps opening and closing lever, maximum pressure and release valves (also useful when welding with the "Dual Pressure" procedure), hydraulic hoses with non-drip quick couplings, a timer (for the heating and welding phases). The machine is preset for the connection of the electronic controller THE INSPECTOR.
- Digital electric connections box with the high precision ( $\pm 1^\circ\text{C}$ ) "Digital Dragon" temperature controller protected by a special container and equipped with a reading display and keys for temperature adjustment.
- A milling cutter/heating plate support.

With DELTA 500 it is possible to weld fittings such as elbows, tees, wyes and stub ends. This is possible because the 3rd clamp can be anchored to the 1st and 2nd (movable) and slide along with the pipe. The fitting have to be locked in the 4th clamp. Short neck stub ends can be welded with the help of a special tool (on request). Available in 230 V and 400 V.

### STANDARD COMPOSITION



Machine body



Detach device for heater



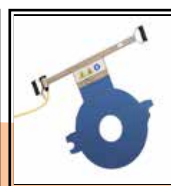
Gearcase



Electronic thermoregulator



Milling cutter



Heating plate



Support



## TECHNICAL FEATURES

**PLUS**

**200 ÷ 500 mm  
water - gas - oil**

**FACER  
fast removing system**

**“DIGITAL DRAGON”**

\* Suggested power generator  
12kVA

Working range	200 ÷ 500 mm; 8" IPS ÷ 18" DIPS
Materials	HDPE, PP, PVDF For other materials contact RITMO S.P.A.
Power supply*	230 Single Phase 50/60 Hz 400 V Three Phase 50/60 HZ
Total absorbed power	7950 W (230 V) 7200 W (400 V)
Working temperature	180° ÷ 280° C (356° ÷ 536° F)
Outside temperature range	-10° ÷ 40° C (14° ÷ 104° F)
Time to reach welding temperature	< 20'
Dimensions machine body (W x D x H)	1265 x 790 x 780 mm (50" x 31" x 31")
Weight machine body	230 Kg (507 lb)
Weight standard composition	408 Kg (900 lb)

### ON REQUEST



Inserts  
Ø 200 ÷ 450 mm



Tool for flange  
necks



Trolley



Electrical crane



The INSPECTOR  
Data-logging



Rollers

and:

Inserts Ø 8" ÷ 18" IPS; 8" ÷ 18" DIPS

pre-insulated bag for heating plate, special transport wooden case or metal cage for:  
body machine/trolley - gearcase/plate/cutter

Russia



# BUTT FUSION MACHINES REFERENCE



WORKING RANGE Ø mm	32	40	50	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	
GAMMA 160		40	50	63	75	90	110	125	140	160																				
DELTA 160 M	32	40	50	63	75	90	110	125	140	160																				
DELTA 200 M				63	75	90	110	125	140	160	180	200																		
BASIC 160		40	50	63	75	90	110	125	140	160																				
BASIC 200				63	75	90	110	125	140	160	180	200																		
BASIC 250					75	90	110	125	140	160	180	200	225	250																
BASIC 315						90	110	125	140	160	180	200	225	250	280	315														
BASIC 355								125	140	160	180	200	225	250	280	315	355													
COMPACT 355								125	140	160	180	200	225	250	280	315	355													
BASIC 160 EASY LIFE		40	50	63	75	90	110	125	140	160																				
BASIC 200 EASY LIFE				63	75	90	110	125	140	160	180	200																		
BASIC 250 EASY LIFE					75	90	110	125	140	160	180	200	225	250																
BASIC 315 EASY LIFE						90	110	125	140	160	180	200	225	250	280	315														
BASIC 355 EASY LIFE								125	140	160	180	200	225	250	280	315	355													
DELTA 500 EASY LIFE												200	225	250	280	315	355	400	450	500										
DELTA 630 EASY LIFE															280	315	355	400	450	500	560	630								
DELTA 500												200	225	250	280	315	355	400	450	500										
DELTA 630															280	315	355	400	450	500	560	630								
DELTA 800																					500	560	630	710	800					
DELTA 1000																							630	710	800	900	1000			
DELTA 1200																								710	800	900	1000	1200		
DELTA 1600 ECO / 1600 HDR																									800	900	1000	1200	1400	1600
DELTA 250 TRAILER					75	90	110	125	140	160	180	200	225	250																
DELTA 355 TRAILER								125	140	160	180	200	225	250	280	315	355													
DELTA 355 ALL TERRAIN								125	140	160	180	200	225	250	280	315	355													
DELTA 500 TRAILER												200	225	250	280	315	355	400	450	500										
DELTA 500 ALL TERRAIN												200	225	250	280	315	355	400	450	500										
DELTA 630 TRAILER													225	250	280	315	355	400	450	500	560	630								
DELTA 630 ALL TERRAIN													225	250	280	315	355	400	450	500	560	630								
DELTA 1000 TRAILER																315	355	400	450	500	560	630	710	800	900	1000				
DELTA DRAGON 250 CNC					75	90	110	125	140	160	180	200	225	250																
DELTA DRAGON 315 CNC						90	110	125	140	160	180	200	225	250	280	315														
WORKING RANGE Ø mm	32	40	50	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	



CTS	IPS																																					
	1"	1¼"	1½"	2"	1"	1¼"	1½"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	42"	48"	52"	54"	63"						
GAMMA 160																																						
DELTA 160 M	•	•	•	•	•	•	•	•	•	•	•																											
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DELTA 1000 TRAILER																																						

DIPS																	
	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"
GAMMA 160																	
DELTA 160 M	•	•															
DELTA 200 M	•	•	•														
BASIC 160	•	•															
BASIC 200	•	•	•														
BASIC 250	•	•	•	•													
BASIC 315	•	•	•	•	•												
BASIC 355	•	•	•	•	•	•											
COMPACT 355	•	•	•	•	•	•	•										
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DELTA 800																	
DELTA 48"																	
DELTA 1600 ECO / 1600 HDR																	
DELTA TRAILER 250	•	•	•	•													
DELTA 355 TRAILER	•	•	•	•	•												
DELTA 355 ALL TERRAIN	•	•	•	•	•	•											
DELTA 500 TRAILER	•	•	•	•	•	•	•										
DELTA 500 ALL TERRAIN	•	•	•	•	•	•	•	•									
DELTA 630 TRAILER	•	•	•	•	•	•	•	•									
DELTA 630 ALL TERRAIN	•	•	•	•	•	•	•	•	•								
DELTA 1000 TRAILER	•	•	•	•	•	•	•	•	•								







**Ritmo**  
PLASTIC WELDING TECHNOLOGY





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**RITMO S.p.A.**

Via A. Volta, 35/37 - 35037  
Bresseo di Teolo (PADOVA) ITALY

Ph. +39 049 9901888  
Fax +39 049 9901993

[info@ritmo.it](mailto:info@ritmo.it)  
[www.ritmo.it](http://www.ritmo.it)

