

# 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**  
PLASTIC WELDING TECHNOLOGY



# 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



## - **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



## - **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 800

This is a self-aligning machine, suitable for welding ducts for the transport of water, gas and other fluids under pressure, up to  $\varnothing$  800 mm 30" IPS. The DELTA 800 was designed in accordance to the International correspondent standards (UNI 10565, ISO 12176-1), and consists of:

- A machine body with a bearing frame, four clamps and two hydraulic thrust cylinders with non-drip quick couplings, and steel inserts.
- An extractable heating plate with separate thermometer for reading the working temperature.
- An extractable electrically controlled milling cutter for levelling the ends of the pipe and/or fitting, with a safety microswitch and overload cutout.
- An electrohydraulic gearcase with a clamp opening and closing lever, maximum pressure and discharge valves (useful also during the "Dual Pressure" welding), hydraulic hoses with non-drip quick couplings, a timer (for the heating and welding phases), an extractable electrical panel with power outlet for the heating plate, an electronic thermoregulator for the control of the working temperature, a differential circuit breaker, and a special connection for the electronic data-logging THE INSPECTOR.
- A milling cutter/heating plate support.

The DELTA 800 can weld fittings such as bends, tees, branches and flange necks. This is possible because the 3rd clamp can be anchored to the 1st and 2nd (movable) and slide along with the pipe. The fitting must be locked in the 4th clamp. Necks with a highly reduced tang can be welded with the help of a special tool (on request), applied to the clamps.

### STANDARD COMPOSITION



Machine body



Detach device for heater



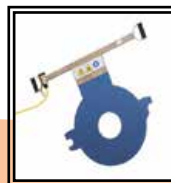
Gearcase



Electronic thermoregulator



Milling cutter



Heating plate



Support

## TECHNICAL FEATURES

**PLUS**

**500 ÷ 800 mm  
water - gas - oil  
FACER  
fast removing system**

**“DIGITAL DRAGON”**

\* Suggested power generator  
30kVA

Working range	500 ÷ 800 mm 20" IPS ÷ 30" IPS
Materials	HDPE, PP, PVDF For other materials contact RITMO S.P.A.
Power supply*	400 V 3F+N+PE 50/60 HZ
Total absorbed power	16500 W
Working temperature	180° ÷ 280° C (356° ÷ 536° F)
Outside temperature range	-10° ÷ 40° C (14° ÷ 104° F)
Time to reach welding temperature	< 45'
Dimensions machine body (W x D x H)	2100 x 1350 x 1300 mm (83" x 53" x 51")
Weight machine body	821 Kg (1810 lb)
Weight standard composition	1260 Kg (2777 lb)

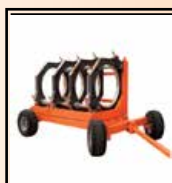
### ON REQUEST



Inserts  
Ø 500 ÷ 710 mm



Tool for flange  
necks



Trolley



Electrical crane



The INSPECTOR  
Data-logging



Rollers

and:

Inserts Ø 20" ÷ 30" IPS; 18" ÷ 24" DIPS

Israel



# 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																								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 630																																						
DELTA 800																																						
DELTA 1000																																						
DELTA 48"																																						
DELTA 1600																																						
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																																						
IPS																																						

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	•	•	•	•	•	•	•											
BASIC 160 EASY LIFE	•	•																
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BASIC 315 EASY LIFE	•	•	•	•	•													
BASIC 355 EASY LIFE	•	•	•	•	•	•												
DELTA 500 EASY LIFE																		
DELTA 630 EASY LIFE																		
DELTA 500																		
DELTA 630																		
DELTA 800																		
DELTA 48"																		
DELTA 1600																		
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	•	•	•	•	•	•	•	•	•									
DIPS																		



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