

# PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

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





# Ritmo meets all your welding needs in your jobsite



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# 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.

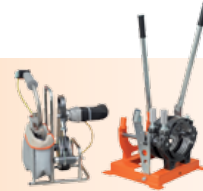
### **STARTING AND TESTING**

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

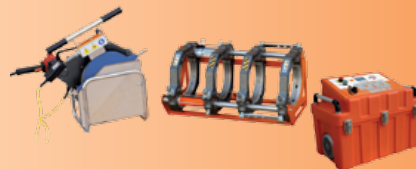
welding machines with special hydraulic gearcase

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/REMEDY** *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





# **ALL TERRAIN - TRAILER - REMEDY LINE** ***HIGH LEVEL PERFORMANCE***



## DIFFERENCES BETWEEN ALL TERRAIN, TRAILER AND REMEDY LINE

**PLUS**

**HIGH  
PERFORMANCE**

**ENHANCES  
PRODUCTIVITY**

	ALL TERRAIN	TRAILER	REMEDY
Working standards mm	✓	✓	✓
Working standards "IPS /"DIPS	✓	✓	✓
International standards ISO 21307 HIGH PRESSURE and ASTM F2620	✓	✓	✓
Welds fittings	✓	✓	✓
Easy Life Welding System	✓	✓	✓
Data-logging	✓	✓	✓
PRE-SET 20 customized welding cycles	✓	✓	✓
Intuitive control panel	✓	✓	✓
GPS traceability	✓	✓	✓
Report PDF	✓	✓	✓
Self-contained Generator on-board	✓	-	✓
Heater/Facer on-board	✓	✓	✓
Insert - Fast-locking system	✓	✓	✓
Trolley with wheels	✓	✓	-
Self-propelled on wheel	✓	-	-
Self-propelled on track	-	-	✓
Remote control track	-	-	✓
Remotely wire-controlled IN-DITCH USE up to 12 m (39 ft)	✓	✓	✓
Carriage can be removed for in-ditch use	✓	✓	✓
Lateral rollers	✓	✓	✓









## DELTA 250 TRAILER

Self-aligning hydraulic butt fusion machine, suitable for welding underpressure pipes for water, gas and other fluids up to  $\varnothing$  250 mm (8" DIPS). Built according to the International standards ISO 21307 HIGH PRESSURE and ASTM F2620. DELTA 250 TRAILER includes:

- A trailer-mounted machine body, easily removable from the trolley in order to perform also into the ditch, adapting to the conditions of the job site. It comes with the fast-locking adapters system SMARTLock RITMO Patented, thanks to which is possible to change adapters in few seconds.
- An on-board electric milling cutter that is equipped with a safety microswitch to prevent from accidental starts, a thermal circuit breaker to protect the engine and also features an ergonomic docking system and on/off switches. To allow the weld in ditches, the milling cutter is easily removable from the trolley/machine body in order to reduce the overall dimensions of the machine and ease the load/unload process.
- An extractable heating plate Teflon-coated (PTFE) equipped with an independent thermometer to check the working temperature.
- An EASY LIFE control panel which is also removable from the machine body to be able to check the welding phases outside from the ditches. It allows the operator to program and pilot all the welding duty cycle in an easy, fast and very intuitive way. It also controls the temperature of the heating plate, always visible on the display. It includes GPS and a data-logging system to store the welding data; USB port for download welding report PDF, or a printer ESC-POS connection, or firmware upgrade. The EASY LIFE system can store up to 4000 joint reports. Possibility to pre-set 20 customized welding cycles.
- A heating plate support which comes with a high-temperature-proof bag, which also avoid the heating element from being scratched.

DELTA 250 TRAILER is able to weld fittings like elbows, tees, Y-branches and flanges necks.  
Available in the 110 V and 230 V versions.

### STANDARD COMPOSITION



Machine body



Detach device for heater



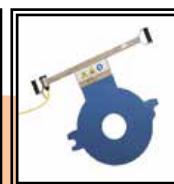
Trolley



Control panel with GPS



Milling cutter



Heating plate



## TECHNICAL FEATURES

**PLUS**

75 ÷ 250 mm  
water - gas - oil

**SMARTLOCK**  
fast-locking adapters  
system Ritmo  
patented

\* Suggested power generator  
5,5 ÷ 6kVA

Working range	75 ÷ 250 mm; 2" IPS ÷ 8" DIPS
Materials	HDPE, PP, PB, PVDF For other materials contact RITMO S.P.A.
Power supply	110 V Single Phase 50/60 Hz 230 V Single Phase 50/60 Hz
Total absorbed power*	4400 W (110 V) 4200 W (230 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)	1080 x 1380 x 1330 mm 42.5" x 54.3" x 52,4"
Weight machine body	85 Kg (187,4 lb)
Weight standard composition	200 Kg (441 lb)

### ON REQUEST



Inserts  
Ø 75 ÷ 225 mm



Tool for flange  
necks



HS rollers 250

and:  
Inserts Ø 2" ÷ 8" IPS; 3" ÷ 8" DIPS

India



# BUTT FUSION MACHINES REFERENCE

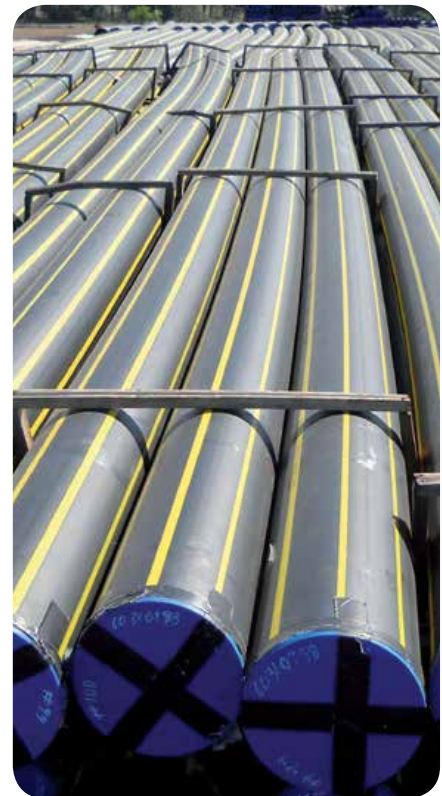


WORKING RANGE Ø mm	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600		
GAMMA 160		40	50	63	75	90	110	125	140	160																					
DELTA 160 M	32	40	50	63	75	90	110	125	140	160																					
DELTA 200 M				63	75	90	110	125	140	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 / MANUAL					75	90	110	125	140	160	180	200	225	250																	
DELTA 355 TRAILER DELTA 355 ALL TERRAIN								125	140	160	180	200	225	250	280	315	355														
DELTA 500 TRAILER DELTA 500 ALL TERRAIN												200	225	250	280	315	355	400	450	500											
REMEDY 500 FA														250	280	315	355	400	450	500											
DELTA 630 TRAILER 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					
REMEDY 1000 EL																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		



WORKING RANGE Ø CTS	1"	1¼"	1½"	2"																																		
WORKING RANGE Ø IPS					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					1"	1¼"	1½"	2"	3"	4"	5"																											
DELTA 160 M	1"	1¼"	1½"	2"	1"	1¼"	1½"	2"	3"	4"	5"																											
DELTA 200 M									2"	3"	4"	5"	6"																									
BASIC 160 / BASIC 160 EASY LIFE					1"	1¼"	1½"	2"	3"	4"	5"																											
BASIC 200 / BASIC 200 EASY LIFE									2"	3"	4"	5"	6"																									
BASIC 250 / BASIC 250 EASY LIFE									2"	3"	4"	5"	6"	8"																								
BASIC 315 / BASIC 315 EASY LIFE										3"	4"	5"	6"	8"	10"																							
BASIC 355 / BASIC 355 EASY LIFE											4"	5"	6"	8"	10"	12"	14"																					
COMPACT 355											4"	5"	6"	8"	10"	12"	14"																					
DELTA 500 / DELTA 500 EASY LIFE																																						
DELTA 630 / DELTA 630 EASY LIFE																																						
DELTA 800																																						
DELTA 1000																																						
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DELTA 1600 ECO / DELTA 1600 HDR																																						
DELTA 250 TRAILER / MANUAL											2"	3"	4"	5"	6"	8"																						
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WORKING RANGE Ø IPS					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"						

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



**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)

