

PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

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.

ADVANTAGE 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.

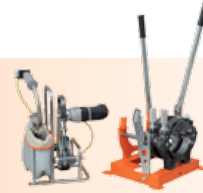
STARTING AND TESTING

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

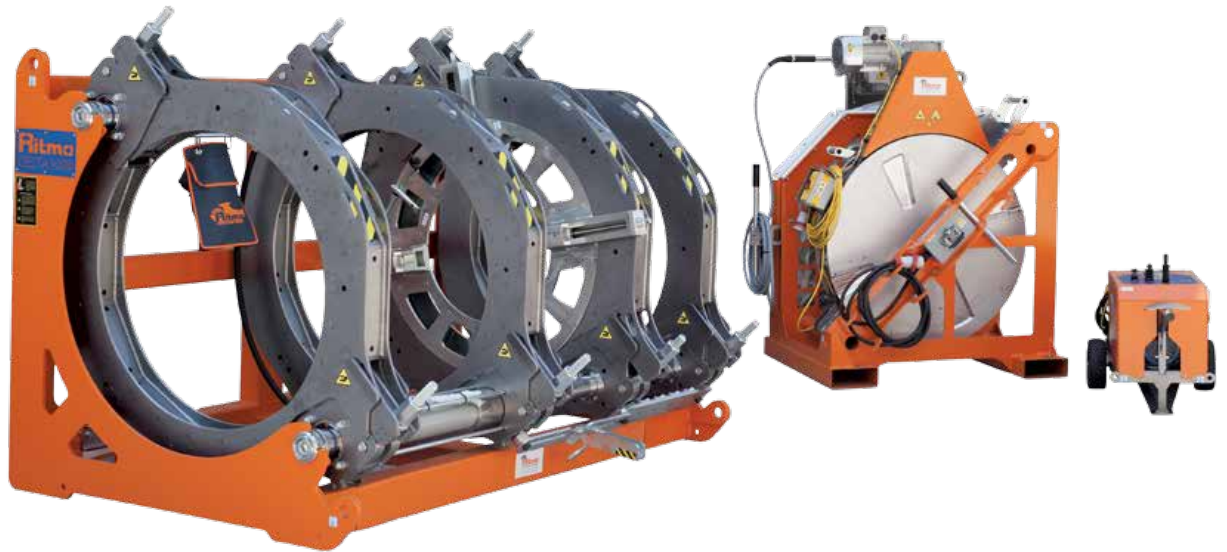
integrated mechanical extraction of heating plate

Hardware and Software interact to the entire workflow

repetition of welding cycles

GPS, data-logging and report PDF





DELTA 1000

This is a self-aligning machine, suitable for welding ducts for the transport of water and other fluids under pressure, up to Ø 1000 mm - 36" IPS. The DELTA 1000 was designed in accordance to the International correspondent standards (UNI 10565, ISO 12176-1), and consists of:

- Machine body with a bearing frame, four steel clamps and two hydraulic thrust cylinders with non-drip quick couplings and steel inserts.
- Extractable heating plate with separate thermometer for reading the working temperature.
- Extractable electrically controlled milling cutter (with self detaching device) for levelling the ends of the pipe and/or fitting, with a safety microswitch, overload cut out, and emergency push button.
- 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) and an electrical panel with a differential circuit breaker.
- Milling cutter/heating plate support with an electronic thermoregulator for the control of the working temperatures.

Holes on the chassis to hook the machine for a rapid and easier handling.

DELTA 1000 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



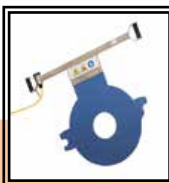
Gearcase



Electronic
thermoregulator



Milling cutter



Heating plate



Support

TECHNICAL FEATURES

PLUS

630 ÷ 1000 mm

**HOLE FOR RAPID
AND EASIER
HANDLING**

* Suggested power generator
40kVA

Working range	630 ÷ 1000 mm; 24" IPS ÷ 36" IPS
Materials	HDPE, PP, For other materials contact RITMO S.P.A.
Power supply	400 V 3F+N+PE 50/60 HZ
Total absorbed power*	25000 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)	2386 x 1746 x 1711 mm (94" x 69" x 67")
Weight machine body	2090 Kg (4607 lb)
Weight standard composition	2942 Kg (6486 lb)

ON REQUEST



Inserts
Ø 630 ÷ 900 mm



Tool for flange
necks



Trolley



Electrical crane



The INSPECTOR
Data-logging



Rollers

and:
Inserts Ø 24" ÷ 36" IPS

Oman



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

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