

PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

www.ritmo.it



Meets all your welding needs on the 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.



About us

Starting from a small workshop in the province of Padua in 1979, with a lathe and a milling machine but with many ideas and passion, Renzo Bortoli shaped and brought to life what, year after year, became RITMO SPA: an internationally recognized company in the field of welding machines for plastic pipes and sheets.

Today, Ritmo continues to produce entirely in Italy, in Teolo, maintaining the spirit of a "Family Company," where professionals and skilled individuals passionately continue to offer their expertise to provide products that make a difference when used on-site.

Mission

A Ritmo product is not bought, it is chosen. Our mission is to transform challenges into solutions with innovation and adaptability, crafting machines that create strong connections and build trust, one weld at a time.



Rossella Contiero - CEO



Renzo Bortoli - Founder

165
COUNTRIES
where RITMO
has been supplying
products

OVER 100
PRODUCTS
ON CATALOG

MADE
IN **ITALY**

90%
EXPORT

+ 80%
GROWTH
2014 - 2023



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)



REMEDY *HIGH LEVEL PERFORMANCE*

- high productivity welding machine
- self-contained generator on board
- self-propelled
- tracked welding machine
- drives over 35% slopes



CNC *HIGH LEVEL PERFORMANCE*

- automatic welding cycle
- special hydraulic gearcase
- mechanical extraction of heating plate
- Hardware and Software interact to the entire workflow
- repetition of welding cycles
- GPS, data-logging and report PDF





GAMMA 160

GAMMA 160 is a manual butt welding machine for HDPE and PP pipes up to Ø 160 mm (4" DIPS). GAMMA 160 features special jaws for manufacturing elbows. Machine can also weld moulded fittings like bends, tees, wyes (Y) and flange necks up to Ø160 mm; short flange necks can be welded with the help of a stub end holder (on request), applied to the clamps. Machine body of GAMMA 160 is compact and easy to transport. Available in the 110 V or 230 V version.

STANDARD COMPOSITION:

- A machine body with pressure regulating device of the bench vice closure
- A steel frame for the support of the machine body
- Steel sliding clamps with fast closing system
- An heating plate with an electronic temperature control device
- An electrically controlled milling cutter for levelling the ends of the pipe and/or fitting, with safety micro-switch against accidental starters
- A support for the milling cutter and the heating plate
- Steel adapters Ø 40, 50, 63, 75, 90, 110, 125, 140 mm (1¼" IPS ÷ 4" DIPS)
- A case for the adapters



ELBOWS
40 ÷ 160
mm

SPECIAL
CLAMP
FOR
FITTING

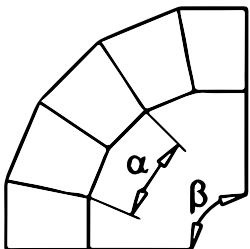
TECHNICAL FEATURES

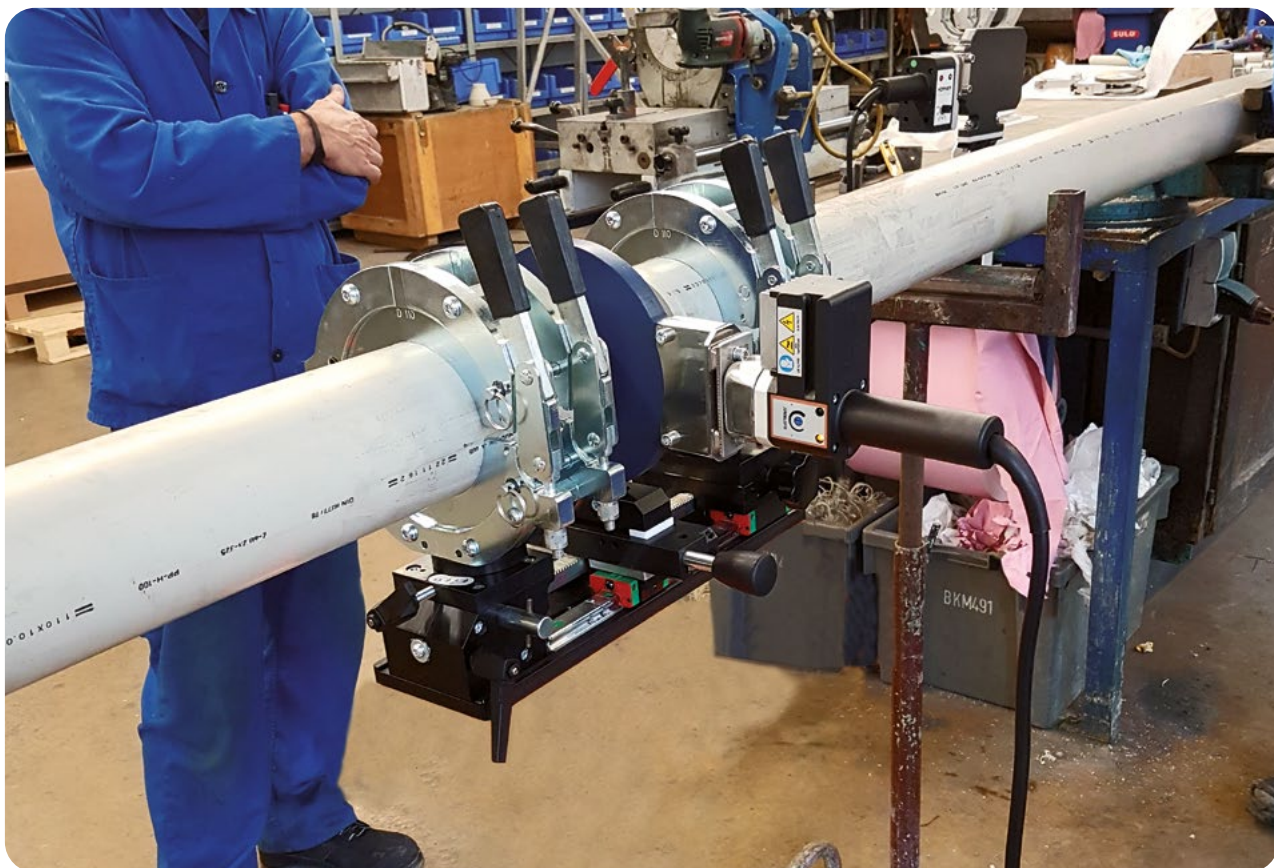
Working range	40 ÷ 160 mm; 1½" IPS ÷ 4" DIPS Ø 32 mm on request
Materials	HDPE, PP, PVDF For other materials contact RITMO S.P.A.
Power supply	110 V Single Phase 50/60 Hz 230 V Single Phase 50/60 Hz
Total absorbed power	2020 W (110 V) 1600 W (230 V)
Weight machine body	25 Kg (55.1 lb)
Weight standard composition	85 Kg (187,4 lb)
Dimensions machine body	610 x 300 x 470 mm 24" x 11.8" x 18,5"

ON REQUEST:

Insert Ø 32 mm, Ø 1½" ÷ 4" DIPS;

Tool for flange necks, Thin single clamp

Welding angle	
$\beta = \max 90^\circ$	
$\alpha = 10^\circ$	
$\alpha = 15^\circ$	
$\alpha = 22,5^\circ$	
$\alpha = 30^\circ$	





**MANUAL
PRESSURE**

MECHANICAL
32 ÷ 160 mm

**HIGH
PRECISION**
THERMOREGULATOR

DELTA 160 M

DELTA 160 M is a manual butt fusion welder for pipes up to Ø 160 mm up to 5" IPS or 4" DIPS. Leading particulars are the restricted weight, minimum overall dimensions and versatility. Featuring: a machine body, two clamps, an extractable electric milling cutter provided with a safety micro-switch and two blades, an extractable heating plate with an independent thermometer to see the real working temperature and "Digital Dragon"s is an high precision electronic thermoregulator ($\pm 1^\circ \text{C}$ accuracy) with digital display and regulating buttons. DELTA 160 M have a locking device clamps - helps to keep constant pressure during heat soak and fusion/cooling. Power supply 110 V or 230 V.

STANDARD COMPOSITION:

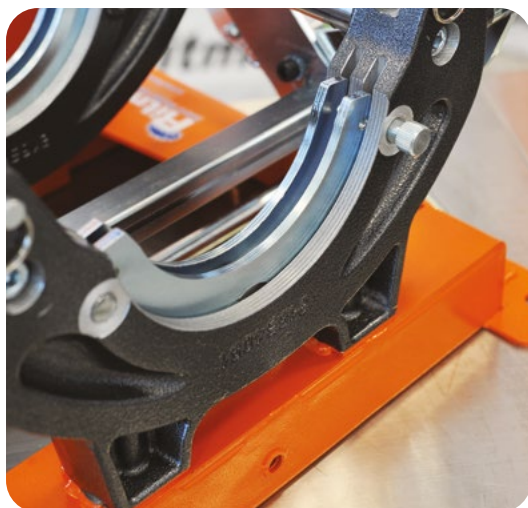
- Machine body
- Heating plate with digital electronic temperature control
- Milling cutter with two blades
- Milling cutter/Heating plate support with pre-insulate bag

ON REQUEST:

- Clamps' inserts from Ø 32 to 140 mm;
Ø 1" ÷ 2" CTS; Ø 1" ÷ 4" IPS; Ø 3" ÷ 4" DIPS



Inserts



TECHNICAL FEATURES

Working range	32 ÷ 160 mm: 1" CTS ÷ 4" DIPS
Materials	HDPE, PP 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*	1850 W (110 V) 1700 W (230 V)
Working temperature	180° ÷ 280° C (356° ÷ 536° F)
Outside temperature range	-10° ÷ 40° C (14° ÷ 104° F)
Weight machine body	24,8 Kg; (54.8 lb)
Dimensions machine body	384 x 450 x 830 mm 15.1" x 17.7" x 32.7"

* Suggested power generator 3,5 ÷ 4kVA

MANUAL PRESSURE

MECHANICAL
63 ÷ 200 mm

LOCKING DEVICE

HELPS THE OPERATOR
TO APPLY THE
NECESSARY WELDING
FORCE



DELTA 200 M

DELTA 200 M is a manual butt fusion welder for pipes up to Ø 200 mm (6" DIPS). Leading particulars are the restricted weight, minimum overall dimensions and versatility. Featuring: a machine body, two clamps, an extractable electric milling cutter provided with a safety micro-switch, an extractable heating plate with an independent thermometer to see the real working temperature and "Digital Dragon" is an high precision electronic thermoregulator ($\pm 1^\circ \text{C}$ accuracy) with digital display and regulating buttons. DELTA 200 M have a locking device clamps aligner that helps the operator to apply the necessary welding force. Power supply 110 V or 230 V.

STANDARD COMPOSITION:

- Machine body
- Heating plate with digital electronic temperature control
- Milling cutter with two blades
- Milling cutter/Heating plate support with pre-insulated bag for heating plate

ON REQUEST:

- Clamps' inserts from Ø 63 to 180 mm; Ø 2" ÷ 6" IPS; Ø 3" ÷ 6" DIPS
- Trolley for machine transportation and support

Pre-insulated bag
for heating plate



TECHNICAL FEATURES

Working range	63 ÷ 200 mm: 2" IPS ÷ 6" DIPS
Materials	HDPE, PP 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*	3000 W (110 V) 3000 W (230 V)
Working temperature	180° ÷ 280° C (356° ÷ 536° F)
Outside temperature range	-10° ÷ 40° C; (14° ÷ 104° F)
Weight machine body	30 Kg (66.1 lb)
Dimensions machine body	529 x 499 x 1100 mm 20.8" x 19.6" x 43.3"

* Suggested power generator 5,5 ÷ 6kVA





BUTT FUSION MACHINES REFERENCE

WORKING RANGE Ø mm MANUAL BUTT WELDING	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																	
WORKING RANGE Ø mm HYDRAULIC BUTT WELDING		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
BASIC 160 BASIC 160 EASY LIFE COMPACT 160		40	50	63	75	90	110	125	140	160																			
BASIC 200 BASIC 200 EASY LIFE				63	75	90	110	125	140	160	180	200																	
BASIC 250 BASIC 250 EASY LIFE DELTA DRAGON 250 CNC DELTA 250 TRAILER DELTA 250 TRAILER MANUAL COMPACT 250					75	90	110	125	140	160	180	200	225	250															
BASIC 315 BASIC 315 EASY LIFE DELTA DRAGON 315 CNC						90	110	125	140	160	180	200	225	250	280	315													
BASIC 355 BASIC 355 EASY LIFE DELTA 355 TRAILER REMEDY 355 COMPACT 355								125	140	160	180	200	225	250	280	315	355												
DELTA 500 DELTA 500 EASY LIFE DELTA 500 TRAILER REMEDY 500 V1												200	225	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 630 DELTA 630 EASY LIFE COMPACT 630															280	315	355	400	450	500	560	630							
DELTA 800 DELTA 800 EASY LIFE																				500	560	630	710	800					
DELTA 1000 TRAILER REMEDY 1000																315	355	400	450	500	560	630	710	800	900	1000			
DELTA 1000 DELTA 1000 EASY LIFE																						630	710	800	900	1000			
DELTA 1200																							710	800	900	1000	1200		
DELTA 1600 ECO / 1600 HDR																								800	900	1000	1200	1400	1600
WORKING RANGE Ø mm		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 / IPS MANUAL BUTT WELDING	1" CTS	1¼" CTS	1½" CTS	2" CTS	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"																			
WORKING RANGE Ø IPS HYDRAULIC BUTT WELDING					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"
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 DELTA 250 TRAILER DELTA 250 TRAILER MANUAL						2"	3"	4"	5"	6"	8"																		
BASIC 315 BASIC 315 EASY LIFE							3"	4"	5"	6"	8"	10"																	
BASIC 355 BASIC 355 EASY LIFE REMEDY 355 DELTA 355 TRAILER COMPACT 355								4"	5"	6"	8"	10"	12"	14"															
DELTA 500 TRAILER REMEDY 500 V1									6"	8"	10"	12"	14"	16"	18"	20"													
DELTA 500 DELTA 500 EASY LIFE										8"	10"	12"	14"	16"	18"														
DELTA 630 TRAILER DELTA 630 ALL TERRAIN										8"	10"	12"	14"	16"	18"	20"	22"	24"											
DELTA 630 DELTA 630 EASY LIFE											10"	12"	14"	16"	18"	20"	22"	24"											
DELTA 800 DELTA 800 EASY LIFE																20"	22"	24"	26"	28"	30"								
REMEDY 1000 DELTA 1000 TRAILER													14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"					
DELTA 1000 DELTA 1000 EASY LIFE																	24"	26"	28"	30"	32"	34"	36"						
DELTA 48"																				28"	30"	32"	34"	36"	42"	48"			
DELTA 1600 HDR																						32"	34"	36"	42"	48"	52"	54"	63"
WORKING RANGE Ø IPS	1" CTS	1¼" CTS	1½" CTS	2" CTS	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 MANUAL BUTT WELDING	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"														
WORKING RANGE Ø DIPS HYDRAULIC BUTT WELDING	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"
BASIC 160 / BASIC 160 EASY LIFE	3"	4"															
BASIC 200 / BASIC 200 EASY LIFE	3"	4"	6"														
BASIC 250 / BASIC 250 EASY LIFE DELTA 250 TRAILER DELTA 250 TRAILER MANUAL	3"	4"	6"	8"													
BASIC 315 / BASIC 315 EASY LIFE	3"	4"	6"	8"	10"												
BASIC 355 / BASIC 355 EASY LIFE REMEDY 355 DELTA 355 TRAILER COMPACT 355		4"	6"	8"	10"	12"											
DELTA 500 TRAILER REMEDY 500 V1			6"	8"	10"	12"	14"	16"	18"								
DELTA 500 / DELTA 500 EASY LIFE				8"	10"	12"	14"	16"	18"								
DELTA 630 TRAILER DELTA 630 ALL TERRAIN				8"	10"	12"	14"	16"	18"	20"	24"						
DELTA 630 / DELTA 630 EASY LIFE					10"	12"	14"	16"	18"	20"							
DELTA 800 / DELTA 800 EASY LIFE									18"	20"	24"						
REMEDY 1000 EL DELTA 1000 TRAILER							14"	16"	18"	20"	24"	30"	36"				
DELTA 48"												30"	36"	42"			
DELTA 1600 HDR												30"	36"	42"	48"	54"	60"
WORKING RANGE Ø DIPS	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"



ADVANTAGE RITMO

RITMO WORLDWIDE

Ritmo has professional distributors and resellers all over the world. Our staff is ready to assist you in Italian, English, Spanish, French, German, Arab, Russian.

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.



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