

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.

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

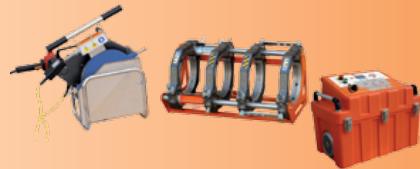
welding machines with special hydraulic gearcase

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 EASY LIFE

This is a self-aligning machine, suitable for welding ducts for the transport of water, gas and other fluids under pressure, up to Ø 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 electro-hydraulic gearcase protected from crashes and atmospheric corrosion by a plastic box. The electronic system guarantees the continuous repeat of the welding cycles and automatic control of the preset parameters, therefore the operator needs only to validate the welding phases. **Easy Life is "Wi-Fi" ready and works together with the App "SET & GO PRO"**. The user-friendly graphic display allows a quick setting of the desired parameters. The EASY LIFE system can store up to 4000 welding cycles and sum them up into a PDF file. This report can be transferred to a PC/laptop through a USB port and data-management software. Possibility to pre-set 50 customized welding cycles. The EASY LIFE system data logging now shows the time!
- 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



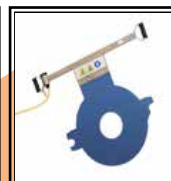
Detach device
for heater



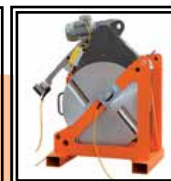
Gearcase



Milling cutter



Heating plate



Support

TECHNICAL FEATURES

PLUS

**AUTOMATED
WELDING
PROCESS**

Wi-Fi ready
App SET & GO - PRO

* 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	7550 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'
Memory	4000 cycles
Pre-set welding cycles	50 customized
Wi-Fi ready	App "SET & GO PRO"
Dimensions machine body (W x D x H)	1265 x 790 x 780 mm (50" x 31" x 31")
Dimensions gearcase (W x D x H)	585 x 384 x 463 mm (23" x 15" x 18.5")
Weight machine body	230 Kg (507 lb)
Weight standard composition	418 Kg (921.5 lb)

ON REQUEST



Inserts
Ø 200 ÷ 450 mm



Tool for flange
necks



Trolley



Electrical crane



Rollers



App
"Set & Go Pro"

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





EASY LIFE CONCEPT



EASY LIKE PUSHING A BUTTON

This is the concept that developed the EASY LIFE welding system: *“to simplify the work in the jobsite avoiding human mistakes”*; this is the philosophy that it holds in its name *“Style and Technology”* by RITMO. EASY LIFE is a whole RITMO’s project for all and accessible to everybody. **Easy Life is “Wi-Fi” ready and works together with the App “SET & GO - PRO”.**

HOW DOES IT WORK

Hardware and software have been developed to interact to each other sharing data during the entire workflow. Once set the welding parameters up, the system guarantees the repetition of the welding cycle, avoiding errors. The operator only has to confirm the work phases on the gear case when asked to, just pushing a button. Besides, during the “welding phase”, where sometimes some pressure adjustments are needed, the electronics system solve automatically this specific problem.

QUALITY IN WELDING

The Easy Life system incorporates a data-logging that saves the data in an internal hard-drive capable to store up to 4000 welds. Possibility to pre-set 50 customized welding cycles. The data will be available through PDF reports, downloadable in a USB pen drive.

EXTREME RELIABILITY

Born on 2002, the EASY LIFE system is now at its fourth evolution.

“SET & GO PRO” APP

HIGH QUALITY ON BUTT FUSION WELDING



"SET & GO PRO" a Professional application for smartphones and tablets (Android) that changes forever the way to work with the Ritmo Easy Life butt fusion machines.

"SET & GO PRO" Put together the ease of use, innovation and quality, in a system with the advantages of a CNC welding system, but reducing significantly the costs of it.

ADVANTAGES

It eliminates the expensive hardware of a data-logging and offer the highest quality at the lowest cost.



From APP STORE you can use only SET & GO
SET & GO PRO isn't available.



PLUS

**EASY SETTING
WI-FI READY**

**GEOLOCATION
MAP**

**DATA-LOGGING
REPORT PDF**



watch the video



HOW DOES IT WORK?

Set-up the easy life welding machine through your smart-phone/tablet with few and easy steps: choose the international welding standards (ISO, DVS, UNI, ASTM, etc.), pipe diameter and SDR.

With the GPS and smartphone scanner you can collect, transfer, and store information by project name. You can record the exact location of each pipe weld as well as the construction site, you can scan pipe and fitting barcodes, scan operator badge, and take a photo before and after the installation.

With a detailed report at the end of each weld you have all the technical data with exact graphs and parameters to compare against international welding standards and geolocation map. You can quickly share the welding reports in pdf format via email and whatsapp or save them to your phone or on a cloud archive.

Choose "SET & GO PRO" because safety and quality are part of your job!

WELDING REPORT Welding = N° 46 - NO ERROR	Model = BASIC 315 (V0,V1) Piston area = 6.68 cm ² Serial = 68000008 Firmware version = 216 Next overhaul (mm/yy) = 10/18 Operator = Test operator Job site = Ritmo Remark = test welding
Date (dd/mm/yy) = 16/02/18 Time (hh:mm) = 09:46	Diameter = 250 mm SDR = 17 Thickness = 14.8mm Material = PE
Standard ISO 21307 (06/11) SINGLE LP	Diameter = 250 mm SDR = 17 Thickness = 14.8mm Material = PE T heater = 223°C
Diameter = 250 mm SDR = 17 Thickness = 14.8mm Material = PE p1 = 0.17MPa T min = 200°C T nom = 223°C T max = 245°C p1 = 28 bar A = 20mm p2 = 0 bar, t2 = 163 s t3 = 5 s t4 = 8 s p3 = 28 bar, t5 = 1060 s	Drag pressure pt = 3 bar p1 = pt = 31 bar, t1 = 30 s p2 = 0 bar, t2 = 163 s t3 = 4 s t4 = 8 s p3 = pt = 31 bar, t5 = 1080 s t total = 1285 s
PRESSURE GRAPH 	OPERATOR'S BADGE 30000041424312017564039002030
PICTURES BEFORE 	JOINT TRACEABILITY 1 3137011100814520240602025320078232530012
PICTURES AFTER 	JOINT TRACEABILITY 2 3137011100814520240602025320078232530012
	GPS 45:23,39647 11:43,0569

***** REPORT n.9 Easy Life v1.09 *****

Date: 02/02/16
Hour: 12:58
Set temperature HP: 200 C
Revision: 11/15
Serial number: 111200000
Diameter: 75 mm
Material: PP
SDR: 7.4
Operator: GIA
Job site: RIT

Remark: *****
*** WELDING DATA ***
Welding number: 0
Drag Pressure: 5 bar
P1: 40 bar
P2: 2 bar
P5: 40 bar
T1: 2s
T2: 30s
T3: 6s
T4: 4s
T5: 180s
Total joint time: 3:42"

Report by EASY LIFE

Report by
EASY LIFE + "SET & GO! PRO"

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	•	•	•	•	•	•	•	•	•	•	•	•	•																								
DELTA 200 M																																					
BASIC 160					•	•	•	•	•	•	•	•	•	•																							
BASIC 200																																					
BASIC 250																																					
BASIC 315																																					
BASIC 355																																					
COMPACT 355																																					
BASIC 160 EASY LIFE					•	•	•	•	•	•	•	•	•	•																							
BASIC 200 EASY LIFE																																					
BASIC 250 EASY LIFE																																					
BASIC 315 EASY LIFE																																					
BASIC 355 EASY LIFE																																					
DELTA 500 EASY LIFE																																					
DELTA 630 EASY LIFE																																					
DELTA 500																																					
DELTA 630																																					
DELTA 800																																					
DELTA 1000																																					
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																																					
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"					

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	•	•																
BASIC 200 EASY LIFE	•	•	•															
BASIC 250 EASY LIFE	•	•	•	•														
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 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	•	•	•	•	•	•	•	•	•									
DIPS	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"	





**Ritmo**
PLASTIC WELDING TECHNOLOGY



The information and photos in this publication are not binding and RITMO S.P.A. is free to make any alterations without prior notice.



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
www.ritmo.it

