

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

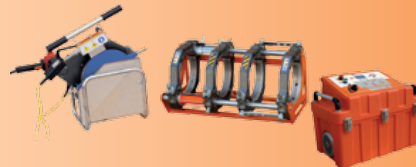
welding machines with special hydraulic gearcase

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





BASIC 250 EASY LIFE

Self-aligning hydraulic butt fusion machine, suitable for welding under-pressure pipes for water, gas and other fluids up to \varnothing 250 mm 8" DIPS. BASIC 250 EASY LIFE, thanks to a special gearcase, is able to manage the automated welding process. Built according to the International standards (UNI 10565, ISO 12176-1), BASIC 250 EASY LIFE includes:

- A machine body built with a supporting frame, four clamps and two hydraulic cylinders with fast non-drip coupling connections. It comes with the fast-locking-adapters system SMARTLock patented by Ritmo
- A Teflon-coated (PTFE) heating plate with a built-in independent thermometer to check the working temperature.
- An extractable electric milling cutter to face the heads of the pipes and/or fittings. It includes a safety micro-switch and a thermal circuit breaker.
- 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

BASIC 250 EASY LIFE is able to weld fittings like elbows, tees, Y-branches and flanges necks.
Available in 230 V versions.

STANDARD COMPOSITION



Machine body



Detach device
for heater



Gearcase



Heating plate



Milling cutter



Support

TECHNICAL FEATURES

PLUS

**AUTOMATED
WELDING
PROCESS**

Wi-Fi ready
App SET & GO - PRO

* Suggested power generator
5,5 ÷ 6kVA

Working range	75 ÷ 250 mm; 2" IPS ÷ 8" DIPS
Materials	HDPE, PP, PP-R, PB, PVDF For other materials contact RITMO S.P.A.
Power supply	230 V Single Phase 50/60 Hz
Total absorbed power*	4200 W
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)	850 x 470 x 400 mm (33.5" x 18.5" x 16")
Dimensions gearcase (W x D x H)	585 x 384 x 463 mm (23" x 15.1" x 18.2")
Weight machine body	63 Kg (139 lb)
Weight standard composition	132 Kg (291 lb)

ON REQUEST



Inserts
Ø 75 ÷ 225 mm



Tool for flange
necks



Trolley for
machine body



App
"Set & Go Pro"



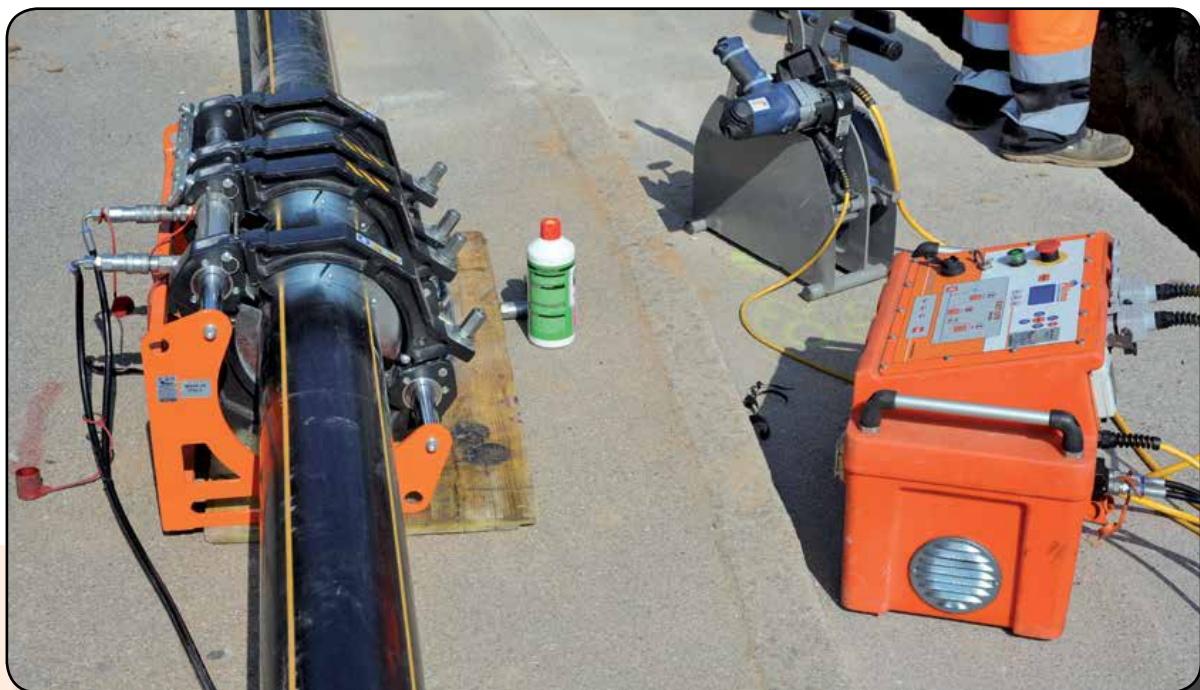
Top Clamp Short
Elbows/Tee



Rollers

and:

Inserts Ø 2" ÷ 8" IPS; 3" ÷ 8" DIPS
pre-insulated bag for heating plate, trolley for milling cutter/heating plate, wooden case for inserts





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

Date (dd/mm/yy) = 16/02/18
Time (hh:mm) = 09:46

Standard
ISO 21307 (06/11) SINGLE LP

Diameter = 250 mm
SDR = 17
Thickness = 14.8mm
Material = PE

pt = 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

Model = BASIC 315 (V0,V1)
Piston area = 6.68 cm²
Serial = 68000008
Firmware version = 216
Next overhaul (mm/yy) = 10/18
Operator = Test operator
Job site = Ritmo
Remark = test welding

Diameter = 250 mm
SDR = 17
Thickness = 14.8mm
Material = PE

T heater = 223°C

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

OPERATOR'S BADGE
30000041424312017564039002030

JOINT TRACEABILITY 1
3137011100914520240602025320078232530012

JOINT TRACEABILITY 2
3137011100914520240602025320078232530012

GPS 45:23,39647 11:43,0569

PICTURES BEFORE

PICTURES AFTER

***** 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										
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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 ECO / 1600 HDR																																							
DELTA TRAILER 250																																							
DELTA 355 TRAILER																																							
DELTA 355 ALL TERRAIN																																							
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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		•																																					
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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



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