

# 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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# 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



## - **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



## - **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 LINE - TRAILER LINE**

## ***HIGH LEVEL PERFORMANCE***





## DIFFERENCES BETWEEN ALL TERRAIN LINE AND TRAILER LINE

**PLUS**

**HIGH  
PERFORMANCE**

**ENHANCES  
PRODUCTIVITY**



	ALL TERRAIN LINE	TRAILER LINE
Working standards mm	✓	✓
Working standards "IPS / "DIPS	✓	✓
International standards ISO 21307 HIGH PRESSURE	✓	✓
Welds fittings	✓	✓
Easy Life Welding System	✓	✓
Data-logging	✓	✓
Wi-Fi Ready	✓	✓
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	✓	-
Remotely wire-controlled up to 12 m (39 ft)	✓	✓
Carriage can be removed for in-ditch use	✓	✓
Lateral rollers	✓	✓







# DELTA 355 ALL TERRAIN

DELTA 355 ALL TERRAIN welds HDPE, PP pipes and fittings for the transportation of gas, water and other fluids under pressure from 125 mm to 355 mm (4" IPS ÷ 14" IPS). It is designed to work according to welding standard ISO 21307 High Pressure. DELTA 355 ALL TERRAIN can be equipped with two types of engine: diesel low vibration and petrol. The engine, like an electrical generator, independently gives the necessary power supply to the machine during all its working and movement phases.

## Machine composition:

- Removable control panel with data-logging, memory up to 4000 welding reports, GPS traceability; USB port for welding PDF report / data download / firmware upgrade .
- Easy-life welding control system: 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 cycles, avoiding errors. The operator only have to confirm the work phases on the just pushing a button. Possibility to pre-set 20 customized welding cycles. **Easy Life system is "Wi-Fi" ready and works together with the App "SET & GO - PRO"**
- Chassis is equipped with front steering wheels and rear traction; parking brake, machine frame design for forklift lifting
- Removable machine body to work in tight spaces with shavings collection tray.
- Dragging bar designed to weld between the 3rd and 4th clamp.
- Ritmo patented insert quick release SMARTLOCK SYSTEM.
- On-board electrical milling cutter with integrated locking handle system, safety switch-off device, motor thermic protection and gas spring to easily lift/lower the facer.
- On-board heating plate with protection frame and insulated protection bag; gas-spring for easy lift/lower the heating plate
- Heating plate and facer locking system for safe transportation .
- Two hydraulic rollers for pipe loading and unloading.
- Kit for network power supply connection (upon request) excluding the machine engine and weld in closed environments
- 25 lt capacity tank for more than 12 working hours operating time.

## STANDARD COMPOSITION



Machine body



Hydraulic  
Rollers



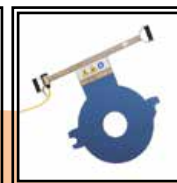
Trolley



Control panel  
with GPS



Milling cutter



Heating plate



## TECHNICAL FEATURES

### PLUS

125 ÷ 355 mm  
4" IPS ÷ 14" IPS

**SELF CONTAINED  
GPS  
EASY LIFE  
WELDING SYSTEM**

#### ON REQUEST

Inserts Ø 125 ÷ 315 mm;  
Ø 4" ÷ 12" IPS;  
Ø 4" ÷ 12" DIPS;

Tool for flange necks,  
HS 355 rollers,  
Kit for for IN-DITCH use, Plug  
for network power supply  
connection, Lifting kit.

Working range	125 ÷ 355 mm 4" IPS ÷ 14" IPS
Materials	HDPE, PP, for other materials contact RITMO S.P.A.
Power supply	self contained / indipendent <b>Diesel</b> - Kohler-Lombardini - 8,6 kW <b>Gasoline</b> - Honda - 14,5 kW
Fuel tank capacity	25 Litres
Operational tank capacity	over 12 Hours
Absorbed power Max	5,6 kW (230 V Single Phase) it refers to the welding machine use when connected to network power supply (excluding on-board generator)
Memory	4000 Reports
Dimensions (W x D x H)	2210 x 1600 x 1335 mm 83" x 63" x 52.5"
Weight machine body	275 Kg (606 lb)
Weight standard composition	755 Kg (1665 lb)



Delta 355 All Terrain lifting



Only machine body lifting

## DELTA 355 TRAILER

DELTA 355 TRAILER welds HDPE, PP pipes and fittings for the transportation of gas, water and other fluids under pressure from 125 mm to 355 mm (from 4" IPS to 14" IPS). **DELTA 355 TRAILER does not have an on board generator and needs external power supply; no traction.**



Gasoline or Diesel generator available





# 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 and iOS) 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.





# PLUS

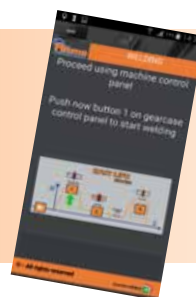
EASY SETTING  
WI-FI READY

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!



\*\*\*\*\* 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: 8  
 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																								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







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