

PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

www.ritmo.it





Ritmo meets all your welding needs in your jobsite



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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

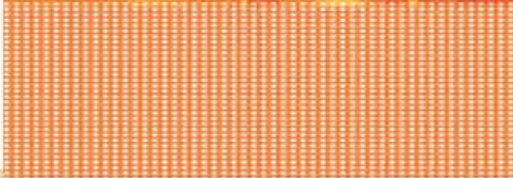
Ritmo's Service Centre can solve all kind of technical issues, as well as overhaul our machines. Ritmo has other Service Centres abroad, linked to its official distributors.

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**
PLASTIC WELDING TECHNOLOGY



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 500 TRAILER

DELTA 500 TRAILER is a self-aligning fusion machine, suitable for welding thermoplastic pipes for the transport of water, gas and other fluids under pressure, up to Ø 500 mm (6" IPS ÷ 20" IPS). Machine can fuse pipes according to the ISO 21307 High Pressure standard (pressure range is three times and a half higher than the ISO Low Pressure ones). This greatly enhances productivity allowing 60% time saving. Standard machine features:

- Machine body mounted on a 4 wheeled chassis, easily removable for working in tight spaces.
- New RITMO Patented assisted system to open/close/lift clamps-heater-facer.
- Machine body with an automatic heating plate detaching device: helps removing the heating plate safely and fast
- Fast-locking system which allows to place and remove inserts in seconds.
- 4 wheeled chassis with 2 steering wheels and a safety brake .
- An on-board electric facer that is equipped with a safety microswitch to prevent from accidental starts, a thermal circuit breaker to protect motor and also features an ergonomic docking system and on/off switches.
- An on-board heating plate Teflon-coated (PTFE) which comes with a high-temperature-proof bag, which also avoid the heating element from being scratched.
- 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"**
- Two hydraulic rollers for pipe loading and unloading.

DELTA 500 TRAILER allows to easily weld fittings like elbows, tees, Y-branches and stub flanges. Available in 230 V single phase or three phase.

STANDARD COMPOSITION



Machine body



Hydraulic
Rollers



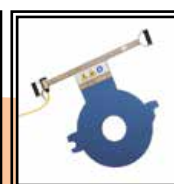
Trolley



Control panel
with GPS



Milling cutter



Heating plate

TECHNICAL FEATURES

PLUS

200 ÷ 500 mm
ISO 21307
HIGH PRESSURE
Enhances productivity
Welding time saving
Assisted system
to open/close/lift
clamps-heater-facer

Working range	200 ÷ 500 mm; 6" IPS ÷ 20" IPS
Materials	HDPE, PP For other materials contact RITMO S.P.A.
Power supply*	230 V Single Phase 50/60 Hz 230 V Three Phase 50/60 Hz
Total absorbed power	7250 W
Working temperature	180° ÷ 280° C (356° ÷ 536° F)
Outside temperature range	-10° ÷ 40° C (14° ÷ 104° F)
Dimensions machine body (W x D x H)	1822 x 1152 x 814 mm 71.8" x 45.4" x 32"
Dimensions trolley (W x D x H)	3295 x 1385 x 1331 mm 130" x 53" x 52.4"
Weight machine body	580 Kg (1279 lb)
Weight Trolley	270 Kg (595.3 lb)
Weight standard composition	850 Kg (1830 lb)

* Suggested power generator
12kVA

ON REQUEST



Inserts
Ø 200 ÷ 500 mm



Tool for flange
necks



HS Rollers 630



App
"Set & Go Pro"

and:
Inserts Ø 6" ÷ 18" IPS; 6" ÷ 18" DIPS; KIT for IN-DITCH USE

India





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 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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Watch
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