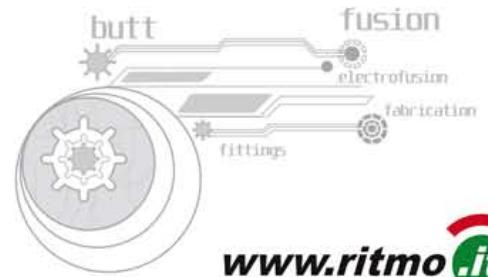




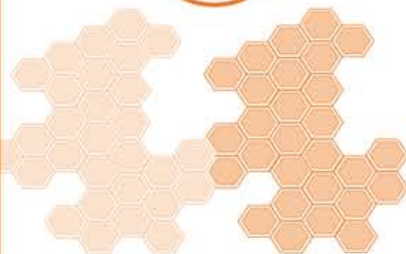
Italian Technology for "The Welding People"



Ritmo
PLASTIC WELDING TECHNOLOGY



www.ritmo.it



HDPE PP
PVDF PB





MADE IN ITALY

DESIGN, CREATE
IN ITALY



RITMO S.P.A. is a world leader with over 35 years of experience in the manufacturing of plastic welding equipment. All products are designed and built according to International standards and directives (UNI, ISO, CEE). Since the very beginning, quality and technology innovation are RITMO's milestones, and time after time, this philosophy is always more recognized by the global market. RITMO strong points are its ideas to design and produce accurate, fast, versatile, modular and easy-to-use welding machines. Products range includes butt fusion, electrofusion and extrusion equipment. Ritmo is also providing a complete line of accessories and useful instruments for pipe cutting and weld preparation such as the band saws. RITMO's regards towards the client has brought to the new-born "RITMO FUSION OPERATOR SCHOOL", which is a welding school with the goal of building qualified personnel and spread the knowledge about the technical potentiality of RITMO's equipment: **TECHNOLOGY MADE IN ITALY.**

... the result of
our joint
efforts



ISO 9001
Quality System



Rossella Contiero - Managing Director



Renzo Bortoli - President

RITMO S.p.A. as you know it nowadays, it's the natural evolution of a passionate idea I had in the long gone 1979 with a group of trustworthy collaborators.

The results, even the smallest ones, have always been for us the pulsating engine that gave power to our projects and dreams. This is why we look back proudly to our origins and the many overcome difficulties; and it's with this spirit that I face every day as President.

All our welding machines are built according to the International Standards and, thing that are making us even more proud of, they're sold and appreciated all over the world. This is possible also thanks to a net of Affiliates and Distributors who strongly believe in RITMO, and us!

Today the challenges of the market require continuous flexibility and innovations, high quality, maximum customer-service coverage but, above all, the capacity for anticipating the requests of the final customers. That is why we constantly propose new welders and accessories, and together with all my staff we research every day into the best way to ease the work of the Ritmo products in the job site and workshop, taking good care of the operator's safety.

RITMO GROUP


Renzo Bortoli
President



www.ritmo.it

A

D V A N T A G E

RITMO SERVICE

RITMO WORLDWIDE

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

BUTT FUSION MACHINES



WORKING RANGE Ø mm

MODEL	32	40	50	56	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	
DELTA 160 M	•	•	•	•	•	•	•	•	•	•	•																				
GAMMA 160	•	•	•	•	•	•	•	•	•	•	•																				
BASIC 160		•	•	•	•	•	•	•	•	•	•																				
BASIC 160 EASY LIFE		•	•	•	•	•	•	•	•	•	•																				
DELTA DRAGON	•	•	•	•	•	•	•	•	•	•	•																				
BASIC 200					•	•	•	•	•	•	•	•	•	•																	
BASIC 200 EASY LIFE					•	•	•	•	•	•	•	•	•	•																	
DELTA TRAILER 250							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DELTA DRAGON 250 CNC							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DELTA DRAGON 250 B							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BASIC 250							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BASIC 250 EASY LIFE							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BASIC 315								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BASIC 315 EASY LIFE								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DELTA DRAGON 315 CNC								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DELTA DRAGON 315 B								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DELTA 355 ALL TERRAIN									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DELTA 355 TRAILER									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BASIC 355									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BASIC 355 EASY LIFE									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DELTA DRAGON 355 B									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
COMPACT 355 L									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DELTA 500 TRAILER																															
DELTA 500																															
DELTA 500 EASY LIFE																															
DELTA 630 TRAILER																															
DELTA 630 ALL TERRAIN																															
DELTA 630																															
DELTA 630 EASY LIFE																															
DELTA 800																															
DELTA 1000																															
DELTA 1200																															
DELTA 1600																															



Manual butt fusion welder



For pre-insulated pipes



ITALY

BASIC LINE

BASIC, the line of butt welding machines for pipes and joints in HDPE, PP, PB, PVDF with diameters ranging from 40 to 355 mm. BASIC was designed by thirty years of experience in manufacturing, producing reliable and versatile welding machines, adapt for all environments, even the harshest such as deserts and mines.

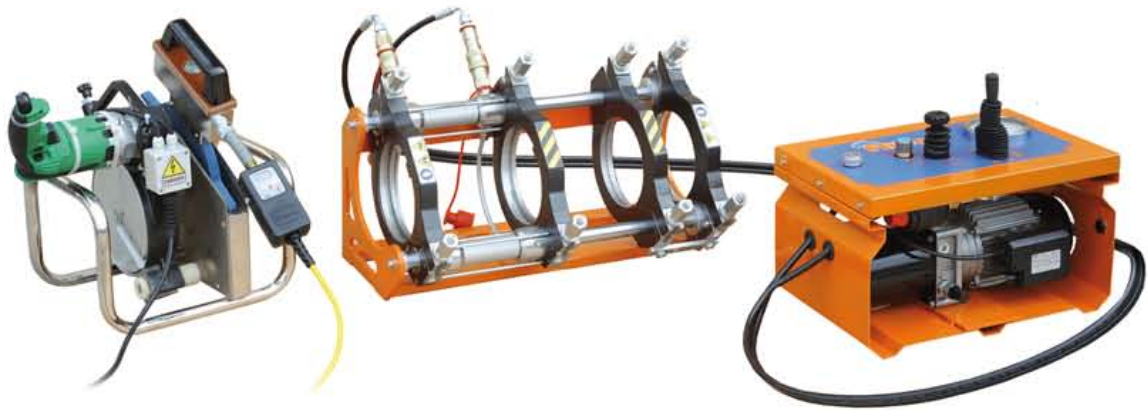
The BASIC Line is distinguished by the excellent quality – price ratio, while maintaining reliability, precision and ease of use, along with RITMO's standards.

With the BASIC Line, RITMO makes its machines and work philosophy available to everyone!

ASK FOR A QUOTATION



BASIC 160



BASIC 160 is able to weld fittings such as elbows, tees, Y-branches and flange necks without any additional equipment by simply fixing the clamps' drag bar.

BASIC 160 includes:

- **A machine body** with 4 clamps and 2 hydraulic cylinders with fast non-drip couplings
- **An extractable heating plate** with DIGITAL DRAGON, high - precision electronic thermo-regulator
- **An extractable milling cutter**, with safety micro-switch
- **An electrohydraulic gearcase**, with a clamp opening and closing lever
- **A hydraulic hoses** with non – drip quick couplings

STANDARD COMPOSITION

- BASIC 160 adapters, from Ø 40 to 140 mm

ON REQUEST (ACCESSORIES)

- Trolley
- THE INSPECTOR Data-logging

BASIC 160

Materials	HDPE - PB - PP - PVDF
Working range	40 ÷ 160 mm
Power supply	110 VAC - 230 VAC
Single phase	50/60 Hz
Total absorbed power	2400 W (110 V) 2250 W (230 V)
Working temperature	180° ÷ 280° C
Pressure working range	0 ÷ 150 bar
Weight only body machines	31 Kg



BASIC 200



BASIC 200 is able to weld fittings such as elbows, tees, Y-branches and flange necks without any additional equipment by simply fixing the clamps' drag bar.

BASIC 200 includes:

- **A machine body** with 4 clamps and 2 hydraulic cylinders with fast non-drip couplings
- **An extractable heating plate** with DIGITAL DRAGON, high - precision electronic thermo-regulator
- **An extractable milling cutter**, with safety micro-switch
- **An electrohydraulic gearcase**, with a clamp opening and closing lever
- **A hydraulic hoses** with non – drip quick couplings

STANDARD COMPOSITION

- Adapters, from Ø 63 to 180 mm

ON REQUEST (ACCESSORIES)

- Tool for flange necks
- Trolley
- THE INSPECTOR Data-logging

Materials	HDPE - PB - PP - PVDF
Working range	63 + 200 mm
Power supply	230 VAC
Single phase	50/60 Hz
Total absorbed power	3250 W
Working temperature	180° + 280° C
Pressure working range	0 + 150 bar
Weight only body machines	39 Kg

ITALY



BASIC 250



BASIC 250 is able to weld fittings such as elbows, tees, Y-branches and flange necks without any additional equipment by simply fixing the clamps' drag bar; **clamps and inserts with the fast-locking system SMARTLock patented by Ritmo**

BASIC 250 includes:

- **A machine body** with 4 clamps and 2 hydraulic cylinders with fast non-drip couplings
- **An extractable heating plate** with DIGITAL DRAGON, high - precision electronic thermo-regulator
- **An extractable milling cutter**, with safety micro-switch
- **An electrohydraulic gearcase**, with a clamp opening and closing lever
- **A hydraulic hoses** with non – drip quick couplings

STANDARD COMPOSITION

- Adapters, from Ø 75 to 225 mm

ON REQUEST (ACCESSORIES)

- Tool for flange necks
- Trolley
- THE INSPECTOR Data-logging

Materials	HDPE - PB - PP - PVDF
Working range	75 + 250 mm
Power supply	230 VAC
Single phase	50/60 Hz
Total absorbed power	3500 W
Working temperature	180° + 280° C
Pressure working range	0 + 150 bar
Weight only body machines	54 Kg

ITALY



BASIC 315



BASIC 315 is able to weld fittings such as elbows, tees, Y-branches and flange necks without any additional equipment by simply fixing the clamps' drag bar; **clamps and inserts with the fast-locking system SMARTLock patented by Ritmo.**

BASIC 315 includes:

- **A machine body** with 4 clamps and 2 hydraulic cylinders with fast non-drip couplings
- **An extractable heating plate** with DIGITAL DRAGON, high - precision electronic thermo-regulator
- **An extractable milling cutter**, with safety micro-switch
- **An electrohydraulic gearcase**, with a clamp opening and closing lever
- **A hydraulic hoses** with non – drip quick couplings

STANDARD COMPOSITION

- Inserts from Ø 90 to 280 mm
- Master adapters Ø 250 mm

ON REQUEST (ACCESSORIES)

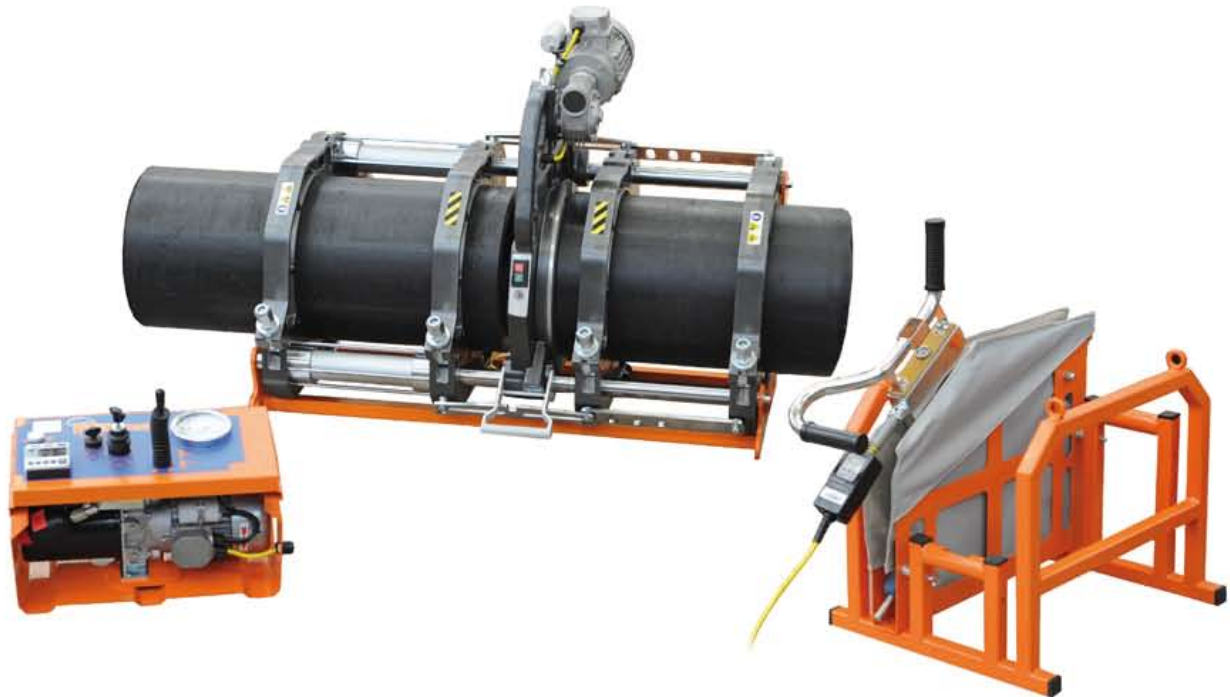
- Tool for flange necks
- Trolley
- THE INSPECTOR Data-logging

Materials	HDPE - PB - PP - PVDF
Working range	90 ÷ 315 mm
Power supply	230 VAC
Single phase	50/60 Hz
Total absorbed power	4500 W
Working temperature	180° ÷ 280° C
Pressure working range	0 ÷ 150 bar
Weight only body machines	86 Kg

ITALY



BASIC 355



BASIC 355 is able to weld fittings such as elbows, tees, Y-branches and flange necks without any additional equipment by simply fixing the clamps' drag bar; **clamps and inserts with the fast-locking system SMARTLock patented by Ritmo.**

BASIC 355 includes:

- **A machine body** with 4 clamps and 2 hydraulic cylinders with fast non-drip couplings
- **An extractable heating plate** with DIGITAL DRAGON, high - precision electronic thermo-regulator
- **An extractable milling cutter**, with safety micro-switch
- **An electrohydraulic gearcase**, with a clamp opening and closing lever
- **A hydraulic hoses** with non - drip quick couplings

STANDARD COMPOSITION

- Inserts from Ø 125 to 315 mm
- Master adapters Ø 250 mm

ON REQUEST (ACCESSORIES)

- Tool for flange necks
- Trolley
- THE INSPECTOR Data-logging

Materials	HDPE - PB - PP - PVDF
Working range	125 ÷ 355 mm
Power supply	230 VAC
Single phase	50/60 Hz
Total absorbed power	5800 W
Working temperature	180° ÷ 280° C
Pressure working range	0 ÷ 150 bar
Weight only body machines	100 Kg

ITALY



THE INSPECTOR



THE INSPECTOR - DATA LOGGING that controls, records and generates a PDF report of the entire welding process. The Inspector is an "open system" that can be used with Ritmo machines or others. The large graphic display allows an easy reading of welding reports.

THE INSPECTOR is installed in a hard case made of PP, with protection degree IP 67. It is sold with a bag that contains the data logging and the battery charger with international adapters.

- Preloaded Major Welding Standard (ISO, DVS, and others)
- Memory of 1000 cycles
- USB port for Welding Report in PDF
- Integrated GPS
- Firmware upgradable via USB
- Battery operated (24 hr of operational work)
- Battery charger with international adapters
- Built-in plastic case in PP with IP67 protection class
- Transport bag
- Applicable to Ritmo machines and other

POWER SUPPLY 24 V DC

Outside Temperature Range -10° C 40° C

Protection Degree IP 67

Dimensionis Data Logging 240 x 265 x 110 mm

Weight 2,6 Kg

STANDARD COMPOSITION

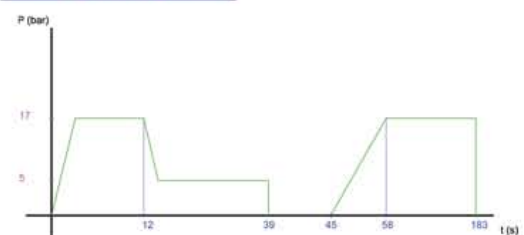
- THE INSPECTOR, transport bag, battery, charger and International adapters

ON REQUEST

- Transducer connection cables; the cable and the transducer may vary according to the welder model (see price list for the correspondent codes).

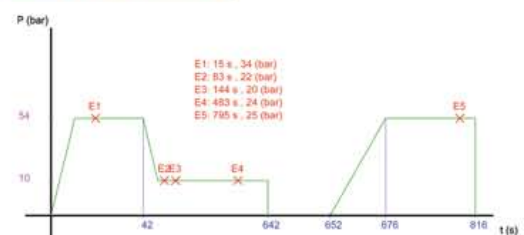
perfect welding

Welding #: 50 NO ERROR!



reporting error

Welding #: 42 5 ERRORS!



INTERNAL DEBEADER



Internal Debeader by RITMO S.p.A. covering a range from \varnothing 90 up to 500 mm! A complete kit set is composed by:

- 6 pcs of alloy rods 2,15 mtr each (one is acting as turn handle)
- 5 pcs of center rings to ensure that the rods are in center of the pipe.
- Alloy rods are delivered in a special carrying bag with a handle
- Internal Debeader Head 90 - 110 mm
- Internal Debeader Head 125 - 160 mm
- Internal Debeader Head 160 - 200 mm
- Internal Debeader Head 225 - 315 mm
- Internal Debeader Head 355 - 500 mm

Internal Debeader Head can be ordered separately too.

ADVANTAGES:

Intuitive and easy to use, accurate, versatile, composed of few parts.

TECHNICAL FEATURES

Model	SDR range
\varnothing 90 mm	17 + 26
\varnothing 110 + 450 mm	11 + 26
\varnothing 500 mm	17 + 26



BUTT FUSION MACHINES REFERENCE

IPS PIPE SIZE

MODEL	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	42"	48"	52"	54"	63"	
DELTA 160 M	*	*	*	*	*	*	*																						
DELTA DRAGON 160	*	*	*	*	*	*	*																						
BASIC 160	*	*	*	*	*	*	*																						
BASIC 160 EASY LIFE	*	*	*	*	*	*	*																						
BASIC 200		*	*	*	*	*	*	*																					
BASIC 200 EASY LIFE		*	*	*	*	*	*	*																					
DELTA TRAILER 250		*	*	*	*	*	*	*	*																				
DELTA DRAGON 250 CNC		*	*	*	*	*	*	*	*	*																			
DELTA DRAGON 250 B		*	*	*	*	*	*	*	*	*																			
BASIC 250		*	*	*	*	*	*	*	*	*																			
BASIC 250 EASY LIFE		*	*	*	*	*	*	*	*	*																			
DELTA DRAGON 315 CNC			*	*	*	*	*	*	*	*	*																		
DELTA DRAGON 315 B			*	*	*	*	*	*	*	*	*																		
BASIC 315			*	*	*	*	*	*	*	*	*																		
BASIC 315 EASY LIFE			*	*	*	*	*	*	*	*	*																		
DELTA 355 ALL TERRAIN			*	*	*	*	*	*	*	*	*	*																	
DELTA 355 TRAILER			*	*	*	*	*	*	*	*	*	*																	
DELTA DRAGON 355 B			*	*	*	*	*	*	*	*	*	*																	
BASIC 355			*	*	*	*	*	*	*	*	*	*																	
BASIC 355 EASY LIFE			*	*	*	*	*	*	*	*	*	*																	
COMPACT 355 L			*	*	*	*	*	*	*	*	*	*																	
DELTA 500 EASY LIFE				*	*	*	*	*	*	*	*	*	*																
DELTA 500				*	*	*	*	*	*	*	*	*	*																
DELTA 500 TRAILER				*	*	*	*	*	*	*	*	*	*																
DELTA 630 TRAILER				*	*	*	*	*	*	*	*	*	*	*															
DELTA 630 ALL TERRAIN				*	*	*	*	*	*	*	*	*	*	*															
DELTA 630				*	*	*	*	*	*	*	*	*	*	*															
DELTA 630 EASY LIFE				*	*	*	*	*	*	*	*	*	*	*															
DELTA 800					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
DELTA 1000						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
DELTA 1200							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
DELTA 1600								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

• Optional, for more details contact RITMO

DIPS PIPE SIZE

MODEL	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"
DELTA 160 M	*	*															
DELTA DRAGON 160	*	*															
BASIC 160	*	*															
BASIC 160 EASY LIFE	*	*															
BASIC 200	*	*	*														
BASIC 200 EASY LIFE	*	*	*														
DELTA TRAILER 250	*	*	*	*													
DELTA DRAGON 250 CNC	*	*	*	*	*												
DELTA DRAGON 250 B	*	*	*	*	*												
BASIC 250	*	*	*	*	*												
BASIC 250 EASY LIFE	*	*	*	*	*												
DELTA DRAGON 315 CNC	*	*	*	*	*	*											
DELTA DRAGON 315 B	*	*	*	*	*	*											
BASIC 315	*	*	*	*	*	*											
BASIC 315 EASY LIFE	*	*	*	*	*	*											
DELTA 355 ALL TERRAIN	*	*	*	*	*	*	*										
DELTA 355 TRAILER	*	*	*	*	*	*	*										
DELTA DRAGON 355 B	*	*	*	*	*	*	*										
BASIC 355	*	*	*	*	*	*	*										
BASIC 355 EASY LIFE	*	*	*	*	*	*	*										
COMPACT 355 L	*	*	*	*	*	*	*										
DELTA 500 TRAILER		*	*	*	*	*	*	*									
DELTA 500		*	*	*	*	*	*	*									
DELTA 500 EASY LIFE		*	*	*	*	*	*	*									
DELTA 630			*	*	*	*	*	*	*								
DELTA 630 EASY LIFE			*	*	*	*	*	*	*	*							
DELTA 630 TRAILER			*	*	*	*	*	*	*	*	*						
DELTA 630 ALL TERRAIN			*	*	*	*	*	*	*	*	*	*					
DELTA 800				*	*	*	*	*	*	*	*	*	*	*	*	*	*
DELTA 1000					*	*	*	*	*	*	*	*	*	*	*	*	*
DELTA 1200						*	*	*	*	*	*	*	*	*	*	*	*
DELTA 1600							*	*	*	*	*	*	*	*	*	*	*

• Optional, for more details contact RITMO

www.ritmo.it

**Discover NEW PRODUCTS
and SERVICES**

Subscribe RITMO NEWSLETTER



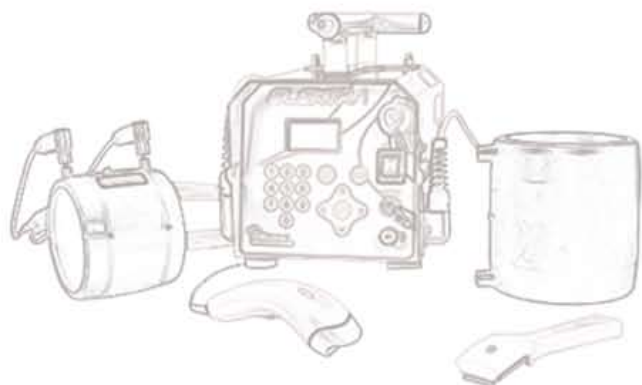
Follow RITMO on



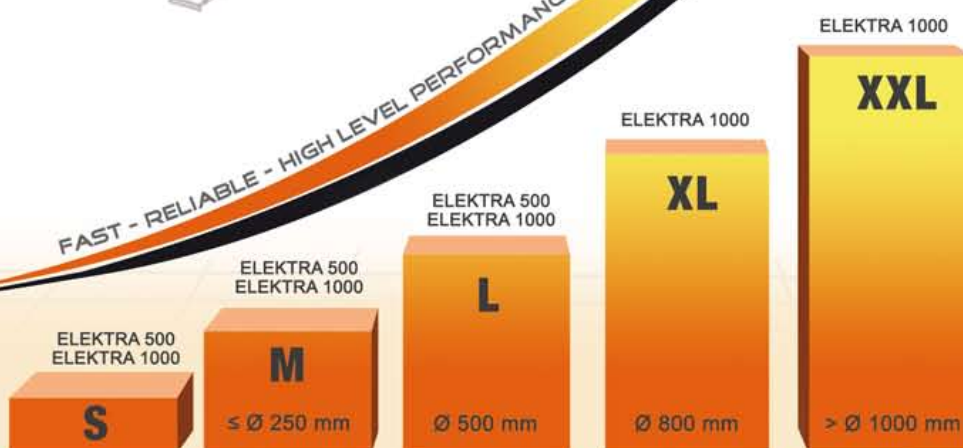
www.youtube.com/user/RitmoPlasticWelding

ELEKTRA 1000

**ELECTROFUSION:
Evolution
of the species!**



FAST - RELIABLE - HIGH LEVEL PERFORMANCE



RITMO S.p.A.

Via A. Volta, 35/37 - 35037
Bressio di Teolo (PADOVA) ITALIA

Tel. +39 049 9901888
Fax +39 049 9901993

info@ritmo.it
www.ritmo.it



Watch
the Corporate Video