

# 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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# 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.

# ELECTROFUSION MACHINES



\* WORKING RANGE Ø mm

HIGH PRESSURE	20	25	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	> 1000	
ELEKTRA LIGHT	20	25	32	40	50	63	75	90	110	125	140	160																		
ELEKTRA S	20	25	32	40	50	63	75	90	110	125	140	160	180	200	X	X	X	X												
ELEKTRA M	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	X	X	X	X								
ELEKTRA 315	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315												
ELEKTRA 500	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500								
ELEKTRA 1000	20	25	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	> 1000	
ELEKTRA XL	20	25	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	> 1000	

LOW PRESSURE	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315
MUSTANG 160 V2			32	40	50	63	75	90	110	125	140	160						
UNIVERSAL 160 V1			32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315

\* Working range might vary according to fittings brand. Check with the fitting manufacturer the power and the welding time required



ONLY 110 V MODEL





# ELEKTRA LIGHT

ELEKTRA LIGHT is an universal electrofusion machine, suitable for welding pipe/fittings for the transport of gas, water and for welding fire sprinkler system (HDPE, PP, PP-R couplings from 8 to 48 V). The Elektra Light machine is made in compliance with international standards. This welding machine's structure is light weight, so it is extremely easy to carry around. Composed of: machine body, an in built memory with 325 welding cycles, featuring the possibility of transferring data to a Pc/Laptop, report in PDF file.

## STANDARD COMPOSITION



Universal connectors 90°

Laser scanner

Manual scraper

## ON REQUEST



Software Ritmo Transfer

Adapter DB9M-USB

\* Working range might vary according to fittings brand. Check with the fitting manufacturer the power and the welding time required.

\*\* Power at 60% Duty Cycle



## TECHNICAL FEATURES

Working range*	20 ÷ 125/160 mm; ½" IPS ÷ 4"/6" IPS
Materials	HDPE, PP, PP-R
Power supply	110 V Single Phase 50/60 Hz 230 V Single Phase 50/60 Hz
Absorbed power**	1300 W
Max. output current	60 A
60% Duty Cycle output	23 A
Memory capacity	325 report
Protection degree	IP 54
Weight machine body	~ 7 Kg (15.4 lb)
Dimensions machine body	200 x 250 x 210 mm; 7.9" x 9.8" x 8.3"
Languages	19
Suggested power generator for full welding range	3,5 ÷ 4 kVA

## ELEKTRA LINE - OVERVIEW

	ELEKTRA S	ELEKTRA M	ELEKTRA XL	ELEKTRA LIGHT	ELEKTRA 315	ELEKTRA 500	ELEKTRA 1000
<b>Working range * 110 V</b>	20 ÷ 315* ½" IPS ÷ 12 IPS*	20 ÷ 500* ½" IPS ÷ 20" IPS*	-	20 ÷ 125/160* ½" IPS ÷ 6" IPS*	20 ÷ 315* ½" IPS ÷ 10" DIPS*	20 ÷ 500* ½" IPS ÷ 20" IPS*	-
<b>Working range * 230 V</b>	20 ÷ 200* ½" IPS ÷ 6" DIPS*	20 ÷ 315* ½" IPS ÷ 12" IPS*	20 ÷ 1600* ½" IPS - 63" IPS*	20 ÷ 125/160* ½" IPS ÷ 6" IPS*	20 ÷ 315* ½" IPS ÷ 10" DIPS*	20 ÷ 500* ½" IPS ÷ 20" IPS*	20 ÷ 1600* ½" IPS - 63" IPS*
<b>Automatic Temperature compensation</b>	√	√	√	√	√	√	√
<b>Constantly welding cycle monitored</b>	√	√	√	√	√	√	√
<b>Barcode scanner (ISO 13950)</b>	√	√	√	√	√	√	√
<b>Manual fusion input</b>	√	√	√	√	√	√	√
<b>Welding report</b>	√	√	√	√	√	√	√
<b>Connections</b>	USB port Type A	USB port Type A	USB port Type A	Adapter DB9M-USB	Adapter DB9M-USB	USB port Type A	USB port Type A
<b>Report file format</b>	PDF - BIN	PDF - BIN	PDF - BIN	PDF - BIN	PDF - BIN	PDF - BIN - CSV	PDF - BIN - CSV
<b>Memory</b>	4000 cycles	4000 cycles	4000 cycles	325 cycles	500 cycles	4000 cycles	4000 cycles
<b>Sound allarm</b>	√	√	√	√	√	√	√
<b>Error recognition</b>	√	√	√	√	√	√	√
<b>Fusion time</b>	√	√	√	√	√	√	√
<b>Cooling time</b>	√	√	√	√	√	√	√
<b>Connectors</b>	90° universal adapters 4.00 - 4,7 mm	90° universal adapters 4.00 - 4,7 mm	90° universal adapters 4.00 - 4,7 mm	90° universal adapters 4.00 - 4,7 mm	90° universal adapters 4.00 - 4,7 mm	90° universal adapters 4.00 - 4,7 mm	90° universal adapters 4.00 - 4,7 mm
<b>Outside Temperature range</b>	-20° ÷ 50° C (-4° ÷ 122° F)	-20° ÷ 50° C (-4° ÷ 122° F)	-20° ÷ 50° C (-4° ÷ 122° F)	-10° ÷ 50° C (14° ÷ 122° F)	-10° ÷ 50° C (14° ÷ 122° F)	-20° ÷ 50° C (-4° ÷ 122° F)	-20° ÷ 50° C (-4° ÷ 122° F)
<b>Power supply (Vac)</b>	110 V or 230 V	110 V or 230 V	230 V	110 V or 230 V	110 V or 230 V	110 V or 230 V	230 V
<b>Frequency</b>	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
<b>Max output current</b>	60 A (110 V) 70 A (230 V)	80 A (110 V) 100 A (230 V)	120 A	60 A	100 A	100 A (110 V) 120 A (230 V)	120 A
<b>Welding output voltage ***</b>	8 ÷ 48 V	8 ÷ 48 V	8 ÷ 48 V or 8 ÷ 80 V	8 ÷ 48 V	8 ÷ 48 V	8 ÷ 48 V	8 ÷ 48 V
<b>Absorbed power **</b>	1700W (110 V) ** 1800 W (230 V) **	2200W (110 V) ** 2300 W (230 V) **	3500 W (230 V) **	1300 W **	2600 W (110 V) ** 2600 W (230 V) **	3100 W (110 V) ** 3100 W (230 V) **	3500 W **
<b>Suggested power generator for full welding range</b>	3,5 ÷ 4 kVA	5,5 ÷ 6 kVA	6,5 ÷ 7 kVA	3,5 ÷ 4 kVA	5,5 ÷ 6 kVA	5,5 ÷ 6 kVA	6,5 ÷ 7 kVA
<b>Protection degree</b>	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
<b>Electrical fuse protection</b>	√	IP 54	IP 54	√	√	√	√
<b>Display</b>	Graphic LCD 2,4"	Graphic LCD 2,4"	Graphic LCD 2,4"	Single line LCD	Graphic LCD 2,4"	Graphic LCD 6,5"	Graphic LCD 6,5"
<b>Machine body dimensions</b>	246x390x240mm 79"x15.3"x9.4"	246x390x240mm 79"x15.3"x9.4"	246x390x240mm 79"x15.3"x9.4"	200x250x210mm 79"x9.8"x8.3"	263x240x300mm 10.3"x9.4"x1.8"	255x270x385mm 10"x10.6"x15.1"	255x270x385mm 10"x10.6"x15.1"
<b>Carrying case dimensions</b>	290x445x295mm 11.4"x17.5"x11.6"	290x445x295mm 11.4"x17.5"x11.6"	290x445x295mm 11.4"x17.5"x11.6"	-	405x285x340mm 16"x11.2"x13.4"	410x290x485mm 16.1"x11.4"x19.1"	410x290x485mm 16.1"x11.4"x19.1"
<b>Weight machine + cables</b>	8,4 Kg (18.5 lb)	9,2 Kg (20.2 lb)	9,4 Kg (20.7 lb)	~ 7 Kg (15.4 lb)	~ 16 Kg (35.3 lb)	~ 18 Kg (39.6 lb)	~ 20 Kg (44 lb)
<b>Weight carrying case</b>	4.3 Kg (9.4 lb)	4.3 Kg (9.4 lb)	4.3 Kg (9.4 lb)	-	3.9 Kg (8.6 lb)	4.8 Kg (10.5 lb)	4.8 Kg (10.5 lb)
<b>Traceability ISO</b>	12176 - 3 12176 - 4	12176 - 3 12176 - 4	12176 - 3 12176 - 4	-	12176 - 4 (only fitting)	12176 - 3 12176 - 4	12176 - 3 12176 - 4

\* Working range might vary according to fittings brand. Check with the fitting manufacturer the power and the welding time required.

\*\* Power at 60% Duty Cycle

\*\*\* Elektra XL is available in two version: for couplings 8 ÷ 48 V and couplings 8 ÷ 80 V

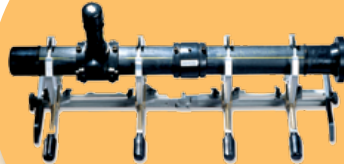
# RITMO ELECTROFUSION, THE COMPLETE SYSTEM AROUND YOUR CONSTRUCTION SITE

## BEVELERS



Up to  
Ø 315 mm

## ALIGNERS



Up to  
Ø 500 mm

## PIPE SCRAPERS



Up to  
Ø 710 mm

## PIPE SUPPORT



Up to  
Ø 400 mm

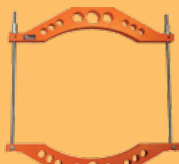


## SHEARS



Up to  
Ø 75 mm

## REROUNDERS



Up to  
Ø 800 mm

## SQUEEZERS



Up to  
Ø 200 mm

## PIPE CUTTER



Up to  
Ø 315 mm

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