

# PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

[www.ritmo.it](http://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.

## ***ELECTROFUSION BY RITMO:***



- High performance
- Barcode reading system
- Easy to use
- 90° universal adapter Ø 4,0 - 4,7 mm
- Laser scanner
- Usb port
- PDF report
- Large memory
- Graphic display multilingual
- Intuitive control panel
- Traceability

# 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 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 TOP	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 V1			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



# ELEKTRA TOP

ELEKTRA TOP is a high performance universal electrofusion machine, characterized by its light weight and high efficiency, The machine is suitable to weld HDPE, PP, PP-R couplings and has an approximate diameter working range\* up to 1600 mm. (½" IPS - 63" IPS) . Elektra TOP (230 V) is available in two version: for couplings 8 ÷ 48 V and couplings 8 ÷ 80 V

- Steel machine frame containing the newest Ritmo's electrofusion technology. Safe transportation thanks to Elektra Top's wide handle which enables a perfect grip and cable winding.
- 4000 welding reports memory.
- Welding reports can be downloaded directly in PDF file format, CSV, or BIN (Software Ritmo Transfer required) in to an external pen drive through the machine usb port, which allows also the welder firmware updating, or a printer ESC-POS connection.
- Large graphic display 6,5" LCD.
- Intuitive control panel.
- Universal connectors 90° Ø 4 - 4,7 mm; no need of adapters.
- Laser scanner - barcode reading system that allows the welding parameters automatic setting. Possibility to set the welding parameters manually: by setting the welding tension/time, or by entering the fitting's numerical code indicated under the bar code. Traceability function ISO 12176.
- GPS (on request).

Elektra TOP is available in 110 V or 230 V.

Elektra TOP 110 V has approximate diameter working range\* Ø 20 ÷ 500 mm (½" IPS ÷ 20" IPS)

## STANDARD COMPOSITION



Universal connectors 90°



Laser Scanner



Manual scraper



Steel transport case

## ON REQUEST



Software Ritmo Transfer

**PLUS**

**LIGHT  
WEIGHT**

**HIGH  
PERFORMANCE**

**DISPLAY 6,5"**



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

\*\* Elektra Top (230 V) is available in two version:  
for couplings 8 ÷ 48 V and couplings 8 ÷ 80 V

\*\*\* Power at 60% Duty Cycle

## TECHNICAL FEATURES

Working range *	20 ÷ 1600 mm ½" IPS - 63" DIPS
Materials	PE, PP, PP-R
Welding output voltage**	8 ÷ 48 V 8 ÷ 80 V
Power supply	190 ÷ 265 V Single phase
Frequency	40 ÷ 70 Hz
Absorbed power ***	3500 W
Nominal Current	15 A
Max. output current	120 A
Operating mode	Barcode Manual (Numerical codes / tension / time)
Connection USB	report PDF / data download firmware upgrade print ESC-POS
Memory	4000 cycles
Report file format	PDF, CSV, BIN
Working Temperature	-20° ÷ 50° C (-4° ÷ 122° F)
T° reading probe precision	± 1° C
Protection degree	IP 54
Connectors	90° Universal 4 - 4.7 mm
Display	6,5" LCD
Dimensions welding machine	259 x 342 x 428 mm 10.3" x 13.5" x 16.8"
Dimensions transport case	480 x 350 x 400 mm 18.9" x 13.8" x 15.7"
Weight with cables	~ 13,9 Kg (26 lb)
Languages	19
Traceability data	ISO 12176
Suggested power generator for full welding range	7 kVA

### Available in 110 V

Max. absorbed power \*\*\* 3100 W

Indicative working range \* Ø 20 ÷ 500 mm; 1/2" IPS ÷ 20" IPS



## ELEKTRA LINE - OVERVIEW

	ELEKTRA LIGHT	ELEKTRA 315	ELEKTRA 500	ELEKTRA 1000	ELEKTRA TOP
Working range*	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*	20 ÷ 1600* ½" IPS - 63" IPS* 20 ÷ 500 (110 V)* ½" IPS ÷ 20" IPS*
GPS	-	-	on request	on request	on request
Automatic Temperature compensation	√	√	√	√	√
Constantly welding cycle monitored	√	√	√	√	√
Barcode scanner (ISO 13950)	√	√	√	√	√
Manual fusion input	√	√	√	√	√
Welding report	√	√	√	√	√
Connections	Adapter DB9M-USB	Adapter DB9M-USB	USB port Type A	USB port Type A	USB port Type A
Report file format	PDF - BIN	PDF - BIN	PDF - BIN - CSV	PDF - BIN - CSV	PDF - BIN - CSV
Memory	325 cycles	500 cycles	4000 cycles	4000 cycles	4000 cycles
Sound allarm	√	√	√	√	√
Error recognition	√	√	√	√	√
Fusion time	√	√	√	√	√
Cooling time	√	√	√	√	√
Connectors	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
Outside Temperature range	-10° ÷ 50° C (-14° ÷ 122° F)	-10° ÷ 50° C (-14° ÷ 122° F)	-20° ÷ 50° C (-4° ÷ 122° F)	-20° ÷ 50° C (-4° ÷ 122° F)	-20° ÷ 50° C (-4° ÷ 122° F)
Power supply (Vac)	110 V or 230 V	110 V or 230 V	110 V or 230 V	230 V	110 V or 230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Max output current	60 A	100 A	100 A (110 V) 120 A (230 V)	120 A	100 A (110 V) 120 A (230 V)
Welding output voltage	8 ÷ 48 V	8 ÷ 48 V	8 ÷ 48 V	8 ÷ 48 V	8 ÷ 48 V *** 8 ÷ 80 V ***
Absorbed power **	1300 W**	2600 W (110 V) ** 2600 W (230 V)**	3100 W (110 V) ** 3100 W (230 V) **	3500 W **	3100 W (110 V) ** 3500 W (230 V) **
Suggested power generator for full welding range	3,5 ÷ 4 kVA	5,5 ÷ 6 kVA	5,5 ÷ 6 kVA	6,5 ÷ 7 kVA	7 kVA
Protection degree	IP 54	IP 54	IP 54	IP 54	IP 54
Electrical fuse protection	√	√	√	√	√
Display	Single line LCD	Graphic LCD 2,4"	Graphic LCD 6,5"	Graphic LCD 6,5"	Graphic LCD 6,5"
Machine body dimensions	200x250x210mm 7.9" x 9.8" x 8.3"	263 x 240 x 300 mm 10.3" x 9.4" x 1.8"	255 x 270 x 385 mm 10" x 10.6" x 15.1"	255 x 270 x 385 mm 10" x 10.6" x 15.1"	259 x 342 x 428 mm 10.3" x 13.5" x 16.8"
Carrying case dimensions	-	405 x 285 x 340 mm 16" x 11.2" x 13.4"	410 x 290 x 485 mm 16.1" x 11.4" x 19.1"	410 x 290 x 485 mm 16.1" x 11.4" x 19.1"	390 x 350 x 500 mm 15.3" x 13.8" x 19.7"
Weight machine + cables	~ 7 Kg	~ 16 Kg (35.3 lb)	~ 18 Kg (39.6 lb)	~ 20 Kg (44 lb)	~ 13,9 Kg (30.6 lb)
Weight carrying case	-	3.9 Kg (8.6 lb)	4.8 Kg (10.5 lb)	4.8 Kg (10.5 lb)	6,6 Kg (14.55 lb)
Traceability	-	Fitting	Pipe/Fitting/Pipe	Pipe/Fitting/Pipe	Pipe/Fitting/Pipe

\* 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 TOP (230 V) is available in two version: for couplings 8 ÷ 48 V and couplings 8 ÷ 80 V



**Ritmo**  
PLASTIC WELDING TECHNOLOGY



The information and photos in this publication are not binding and RITMO S.P.A. is free to make any alterations without prior notice.



**RITMO S.p.A.**

Via A. Volta, 35/37 - 35037  
Bresseo di Teolo (PADOVA) ITALY

Ph. +39 049 9901888  
Fax +39 049 9901993

[info@ritmo.it](mailto:info@ritmo.it)  
[www.ritmo.it](http://www.ritmo.it)

