



CCHRYSsafidis



## ELEKTRA M

ELEKTRA M is an universal electrofusion machine characterized by high performance and reduced weight. It is available in two different power supplies: 230V and 110V. The welding machine has been designed to weld EF fittings up to OD 315\* mm (230 V version) or 500\* mm (110 V version) for PE, PP, PP-R high pressure pipelines. It can weld EF fittings within the range 8 ÷ 48 V. Provided with:

- High resistance technopolymer shell
- "Defender" protection system against dust and rain complete of removable filter
- Lifting handle and cable wrapping
- In-built memory of 4000 welding report
- Possibility to download the welding report thanks to the USB port in PDF, CSV, BIN format. For BIN format it is necessary the RITMO transfer software. The USB port is also used to upgrade the welding machine firmware and to plug the ESC- POS printer to get immediately the welding report printed on site.
- 2,4" LCD Graphic display
- Intuitive control panel with the possibility to customize the menu with 20 different languages
- 90° universal connectors 4.0-4.7mm
- Laser scanner in order to read the EF fitting barcode and to set automatically the welding parameters according to the ISO 13950. The laser technology of the scanner enhances the reading quality in case of severe light reflections or contrasts. It is also possible to enter manually both the welding parameters (Voltage/Time) and the welding barcode digits.
- Traceability: ISO 12176-3 Operator traceability; ISO 12176-4 Fitting/ pipe traceability
- In-built GPS device (on request)

### STANDARD COMPOSITION



90° Universal  
connectors  
4.0-4.7mm



Laser Scanner



Manual scraper



Carrying case

### ON REQUEST



Software  
Ritmo Transfer

## TECHNICAL FEATURES

# PLUS

**HIGH  
PERFORMANCE**

**PDF WELDING  
REPORT**

**RESISTANT AGAINST  
GENERATOR POWER  
SURGES**

\* 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

Model	<b>ELEKTRA M</b>
Working range *	20 ÷ 500 mm 110 V* 20 ÷ 315 mm 230 V*
Materials	PE, PP, PP-R
Welding output voltage	8 ÷ 48 V
Power supply	110 V ±15% Single Phase 50/60 Hz 230 V ± 15% Single Phase 50/60 Hz
Absorbed power **	2200 W (110 V) 2300 W (230 V)
Max. output current	80 A (110 V) 100 A (230 V)
60% Duty Cycle output ISO 12176-2	60 A
Operating mode	ISO 13950 welding barcode Manual (barcode digits, tension/time)
Connections	USB port for the pen drive and for the ESC-POS printer
Memory	4000 welding report
Ambient temperature	-20° ÷ 50° C;
T° probe precision	± 1° C
Traceability	ISO 12176-3 ISO 12176-4
Protection degree	IP 54
Languages	20
Overall dimensions, machine body	246 x 390 x 240 mm
Overall dimensions, carrying case	290 x 445 x 295 mm
Weight machine body	6,55 Kg
Weight, machine body + welding and power supply cable + laser scanner	9,2 Kg
Recommended generator to cover the complete working range	5,5 ÷ 6 kVA





# 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.