ELECTROFUSION WELDING MACHINE

ELEKTRA M

Universal Electrofusion Welding Machine

High-performance, reduced-weight electrofusion machine for PE, PP and PP-R fittings, with laser barcode reading to ISO 13950 and full ISO 12176 weld traceability.



- Range 20–315mm
- Materials PE, PP, PP-R
- Output 8–48V
- Supply 230V
- Weight 6.55kg
- Protection IP 54

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Global Water Group is an authorised Ritmo distributor for plastic welding equipment in Australia.

SECTION 01

Overview

ELEKTRA M is a universal electrofusion machine characterised by high performance and reduced weight. Running on a 230V single-phase supply, it is designed to weld EF fittings up to OD 315mm for PE, PP and PP-R high pressure pipelines, across a welding output range of 8–48V.

KEY FEATURES

- High resistance technopolymer shell
- Lifting handle and cable wrapping
- Welding report download via USB — PDF, CSV, BIN format
- 2.4" LCD graphic display
- 90° universal connectors 4.0–4.7mm — no adapters needed
- Manual entry of welding parameters (voltage/time) & barcode digits
- "Defender" protection against dust & rain, with removable filter
- In-built memory of 4000 welding reports
- USB port also upgrades firmware & drives an ESC-POS printer
- Intuitive control panel, customisable menu in 20 languages
- Laser barcode scanner, sets parameters to ISO 13950 automatically
- Traceability to ISO 12176-3 (operator) & ISO 12176-4 (fitting/pipe)

In-built GPS device available on request.

STANDARD COMPOSITION



90° Universal Connectors 4.0–4.7mm



Laser Scanner



Manual Scraper



Carrying Case



ON REQUEST
Ritmo Transfer Software

SECTION 02

Technical Specifications

Model	**ELEKTRA M**
Working range *	20–315mm (230V*)
Materials	PE, PP, PP-R
Welding output voltage	8–48V
Power supply	230V ±15% Single Phase 50/60Hz
Absorbed power **	2300W (230V)
Max. output current	100A (230V)
60% Duty Cycle output (ISO 12176-2)	60A
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 reports
Ambient temperature	-20° to 50°C
T° probe precision	±1°C
Traceability	ISO 12176-3 · ISO 12176-4
Protection degree	IP 54
Languages	20
Dimensions, machine body	246 × 390 × 240mm
Dimensions, carrying case	290 × 445 × 295mm
Weight, machine body	6.55kg
Weight, body + cables + scanner	9.2kg
Recommended generator	5.5–6 kVA

* Working range might vary according to fittings brand. Check with the fitting manufacturer the power and welding time required. ** Power at 60% duty cycle.



SECTION 03

Electrofusion Accessories

Ritmo electrofusion — the complete system around your construction site.



Aligners

Up to Ø500mm



Pipe Scrapers

Up to Ø710mm



Shears

Up to Ø75mm



Pipe Cutter

Up to Ø315mm



Squeezers

Up to Ø200mm



Rerounders

Up to Ø800mm



Pipe Support

Up to Ø400mm



Bevelers

Up to Ø315mm

Talk to GWG about your welding equipment

Global Water Group is your trusted Ritmo distributor for PE welding solutions.