



# Ritmo

PLASTIC WELDING TECHNOLOGY





RITMO S.P.A. is a 30 year experienced company and leader in 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.



**ISO 9001  
Quality System**

...the result of  
our joint  
efforts





# DELTA DRAGON 250 B



Self-aligning hydraulic butt fusion machine, suitable for welding under-pressure pipes for water, gas and other fluids up to Ø 250 mm. Built according to the national standards (UNI 10565, ISO 12176-1), **DELTA DRAGON 250 B** presents very interesting innovations. It includes:

- **A machine body** able to assume two working position: inclined or horizontal. The rotation of the machine body INCLINED/HORIZONTAL is very fast, by adjusting only 4 screws on the machine frame is possible to choose the best configuration for the working conditions. It comes with the fast-locking-adapters **system SMARTLock**, which speeds up the welding preparation time without using any additional equipment. It features a device (applicable on every welding configuration: between the 2nd and 3rd clamps or 3rd and 4th clamps) which allows the automatic detach of the heating plate from the pipes/fittings. Two rollers can be lodged very quickly on the sides of the machine body. These accessories allow lifting up the welded pipes to make them roll and quickly prepare a new weld.
- **A Teflon-coated** (PTFE) heating plate with a built-in independent thermometer, to check the working temperature, and a high-precision electronic thermoregulator "Digital Dragon" ( $\pm 1^\circ\text{C}$ ) which comes in a protective waterproof casing with digital display and regulating buttons. This new system includes Led indicators to check if the machine is working normally (live tension and working temperature), contingent probe's failures and/or temperature anomalies.
- **A milling cutter** that is equipped with a safety micro-switch to prevent from accidental starts, a thermal circuit breaker to protect the engine and also features an ergonomic docking system and on/off switches.
- **An electro-hydraulic gearcase** protected from crashes and atmospheric corrosion by a plastic box. It includes a control lever, to open and close the clamps, maximum pressure and discharge valves (useful also for the "Dual Pressure" welding process), hydraulic connection hoses with non-drip fast couplings and timer (to check the warming and welding time). The machine is preset for the connection of the electronic controller **INSPECTOR**.
- A milling cutter/ heating plate **support** which comes with a high- temperature-proof bag, which also protect the heating element from being scratched.

**DELTA DRAGON 250 B** is able to weld fittings like elbows, tees, Y-branches and flanges necks. Available in the 110 V and 230 V versions.

#### STANDARD COMPOSITION:

- Machine body with bag and service keys;
- Heating plate TP DELTA 250 TE;
- Milling cutter;
- Gearbox;
- Milling cutter/Heating plate support.

**ASK FOR A QUOTATION**



## TECHNICAL FEATURES

Working range	75 ÷ 250 mm	
Power supply	110 V	230 V
	Single phase - 50/60 Hz	
<b>Total absorbed power</b>	<b>3470 W</b>	<b>3470 W</b>
Working temperature	180 ÷ 280°C	
Ambient temperature	-5 ÷ +40°C	
Time to reach welding temperature	< 20 min.	
Materials	HDPE, PP, PB, PVDF <small>For other materials contact RITMO S.P.A.</small>	

<b>DIMENSIONS (W x D x H)</b>	
Machine body	1000 x 543 x 418 mm

<b>WEIGHT</b>	
Machine body	58,00 Kg
<b>Total (Delta Dragin 250 B only)</b>	<b>118,00 Kg</b>

### ON REQUEST (ACCESSORIES)

- EASY LIFE gearbox;
- Clamps' inserts from Ø 75 to 225 mm;
- Tool to weld flange necks/stub-end holder;
- Roller kit with lever applicable on the machine body' sides;
- Clamps' wooden transportation box;
- Transportation trolley for milling cutter, heating element and gearbox;
- INSPECTOR Data-logging.



Heater with Digital Dragon



SMARTLock system



Detach device for heater



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WHERE THERE'S PLASTIC TO WELD



CONTACT RITMO!

# **BASIC LINE**

## **BUTT FUSION MACHINES**



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