



DELTA DRAGON 250 B



Machine body



Heater with Digital Dragon



Milling cutter



Electrohydraulic gearbox

## DELTA DRAGON 250 B

Self-aligning hydraulic butt fusion machine, suitable for welding under-pressure pipes for water, gas and other fluids up to Ø250 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 hi-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 gearbox** 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 110V and 230V versions.

### SUPPLIED WITH

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

### ON REQUEST (ACCESSORIES)

- **EASY LIFE gearbox**
- Clamps' inserts Ø 75,90,110,125,140,160,180,200,225mm (8 pcs, each)
- **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

TECHNICAL FEATURES		
Working range	75 ÷ 250 mm	
Power supply	110 V	230 V
	Single phase - 50/60 Hz	
Power absorbed by the TP	2000 W	2000 W
Power absorbed by the milling cutter	1100 W	1100 W
Power absorbed by the milling cutter	370 W	370 W
<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.	
Overall cylinder section	5,105 cm²	
Pressure working range	0 ÷ 150 bar	
Materials	PE, PP, PB, PVDF * For other materials contact RITMOspa	

DIMENSIONS (W x D x H)	
Machine body	1000 x 543 x 418 mm
Heating plate (TP)	518 x 43 x 495 mm
Milling cutter	480 x 285 x 730 mm
Electrohydraulic gearcase	535 x 315 x 435 mm
Milling cutter/heating plate support	528 x 246 x 602 mm
Tool for flange necks	300 x 190 x 490 mm
Wooden case for inserts	890 x 345 x 450 mm
INSPECTOR data-logger	250 x 200 x 175 mm

WEIGHT	
Machine body	58,00 Kg
Heating plate (TP)	8,00 Kg
Milling cutter	16,00 Kg
Electrohydraulic gearcase	26,00 Kg
Milling cutter/heating plate support	10,00 Kg
<b>Total (Delta Dragin 250 B only)</b>	<b>118,00 Kg</b>
Tool for flange necks	7,00 Kg
Wooden case for inserts	33,00 Kg
INSPECTOR data-logger	4,94 Kg

Weight (Kg) clamp inserts (8 pieces/Ø)								
Ø 75	Ø 90	Ø 110	Ø 125	Ø 140	Ø 160	Ø 180	Ø 200	Ø 225
8,00	8,00	7,80	7,80	7,40	6,00	5,50	5,70	3,20
<b>Total weight: 60,90 Kg</b>								



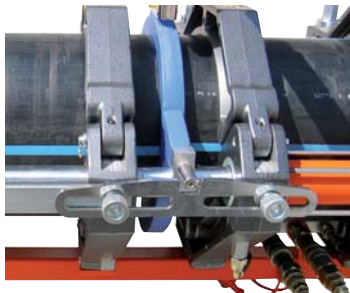
Milling cutter/Heating plate support



Inserts



SMARTLock system



Detach device for heater