



BASIC 315

Self-aligning hydraulic butt fusion machines, suitable for welding under-pressure pipes for water, gas and other fluids. Built according to the International standards (UNI 10565, ISO 12176-1), BASIC 315 includes:

- A machine body built with a supporting frame, four clamps and two hydraulic cylinders with fast non-drip coupling connections. It comes with the fast-locking-adapters system SMARTLock patented by Ritmo
- A Teflon-coated (PTFE) heating plate with a built-in independent thermometer, to check the working temperature, and an high-precision electronic thermoregulator "Digital Dragon" ($\pm 1^\circ\text{C}$) with digital display and regulating buttons. This 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.
- An extractable electric milling cutter to face the heads of the pipes and/or fittings. It includes a safety micro-switch and a thermal circuit breaker.
- 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 THE INSPECTOR.
- A milling cutter/ heating plate support

BASIC 315 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



Detach device
for heater



Gearcase



Heating plate
with Digital
Dragon



Milling cutter



Support

TECHNICAL FEATURES

PLUS

SMARTLOCK
PATENTED BY RITMO

fast-locking
adapters system

DIGITAL DRAGON

High-Precision
Electronic
Thermoregulator

* Suggested power generator
6,5 ÷ 7kVA

Working range	90 ÷ 315 mm; 3" IPS ÷ 10" DIPS
Materials	HDPE, PP, PP-R, PVDF For other materials contact RITMO S.P.A.
Power supply	110 V Single Phase 50/60 Hz 230 V Single Phase 50/60 Hz
Total absorbed power*	3900 W (110 V) 4500W (230 V)
Working temperature	180° ÷ 280° C (356° ÷ 536° F)
Outside temperature range	-10° ÷ 40° C (14° ÷ 104° F)
Time to reach welding temperature	< 20'
Dimensions machine body (W x D x H)	981 x 586 x 520 mm (37" x 23" x 20.5")
Weight machine body	86 Kg (190 lb)
Weight standard composition	166 Kg (366 lb)

ON REQUEST



Inserts
Ø 90 ÷ 280 mm
master Ø 250 mm



Tool for flange
necks



Trolley for
machine body



The INSPECTOR
Data-logging



Rollers



watch the video

and:

Inserts Ø 3" ÷ 10" IPS; 3" ÷ 10" DIPS

pre-insulated bag for heating plate, trolley for milling cutter/heating plate, wooden case for inserts

Italy

