



# 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





# ALFA 400 CTB



**ASK FOR A QUOTATION**

This is a workshop welding machine designed to fabricate fittings like elbows (up to Ø 400 mm), wyes (Y), tees and crosses (up to Ø 355 mm) by joining pipe segments, with the help of special jaws. Elbows and wyes (Y) jaws opening/closing and locking movements are controlled hydraulically, while tees/crosses jaws opening/closing movements are manual.

The **ALFA 400 CTB** can also weld special and moulded fittings such as elbows, tees and flange necks, thanks to a different type of special jaws (controlled hydraulically). Composed of:

A **machine body** with two hydraulically controlled carriages; a **control panel** that features the Easy Life system, thanks to which it is possible to carry out a whole welding cycle in a simple, intuitive and repeatable way, so that the operator's interference would be reduced to the minimum. An in-built memory allows the machine to store the data of the welding cycles (including the set diameters and SDR). It is possible to transfer the welding data to a PC through a serial port (USB adaptor connector available) and data-management software. A printer can be connected to the serial port, to get a welding report at the end of each welding cycle; a Teflon-coated **heating plate** with hydraulic movement (in / out) on spherical bearings guides; a **milling cutter** with hydraulic movement (in/out) on spherical bearings guides, operated by an electrical engine, provided with eight steel blades; an upper cylinder, to be positioned on the jaws, for welding extra thick pipes and/or whenever it's necessary to use high pressures.





## STANDARD COMPOSITION

Welding machine complete with:

- control panel;
- heating plate, milling cutter;
- lateral supports Ø 400 mm (2 pcs.);
- with inserts from Ø 110 to Ø 355 mm;
- upper cylinder and tool kit.

## ON REQUEST (ACCESSORIES)

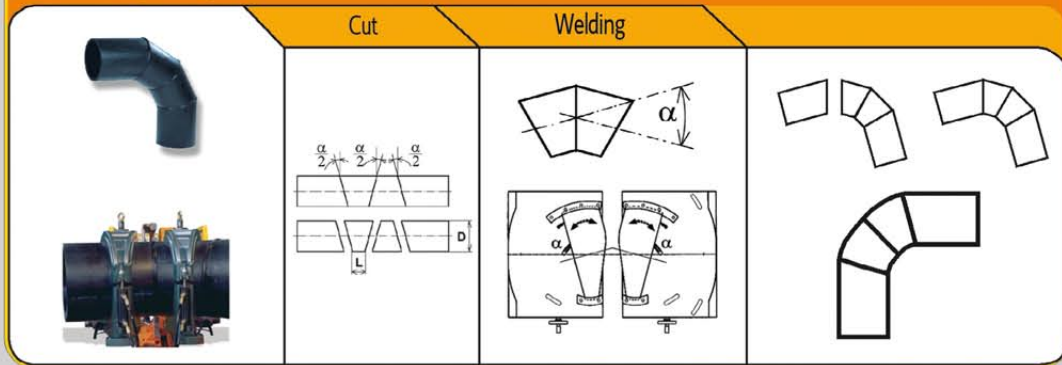
- Elbows jaws Ø 400 mm with inserts from Ø 110 to Ø 355 mm;
- Wyes jaws Ø 355 mm with inserts from Ø 110 to Ø 315 mm;
- Tees/crosses jaws complete with inserts from Ø 110 to 315 mm;
- Right or left special jaw inserts from Ø 110 to Ø 355 mm;
- Tool for flange necks;
- Special milling cutter plates and blades for PVC.

ELBOWS		110 ÷ 400 mm 0 ÷ 60°
WYES (Y)		110 ÷ 355 mm 45° ÷ 60°
TEES		110 ÷ 355 mm
CROSSES		110 ÷ 355 mm
Materials	HDPE, PP for other plastic materials contact RITMO spa	

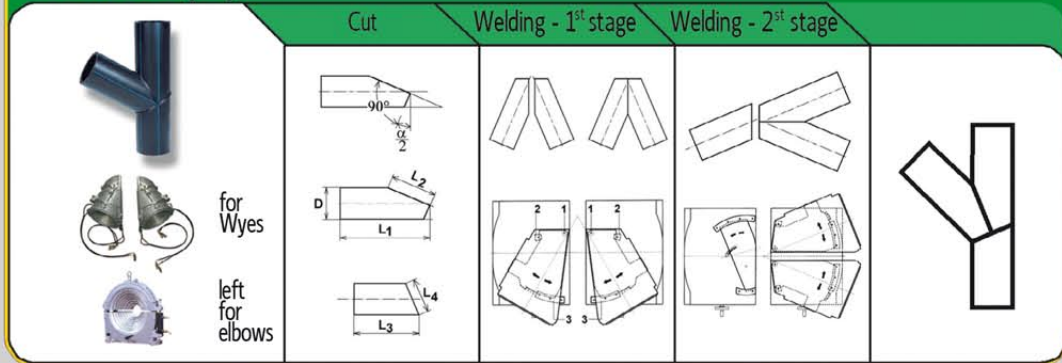
Power supply	400 V-Three-phase+N-50/60 Hz
<b>Total absorbed power</b>	<b>16000 W</b>
Working temperature	180 ÷ 280°C
Room temperature range	-5 ÷ +40°C
<b>DIMENSIONS (W x D x H)</b>	
Machine body	2560 x 1725 x 1450 mm
<b>WEIGHT</b>	
Machine body	1200 Kg

# HOW TO FABRICATE A SPECIAL FITTING

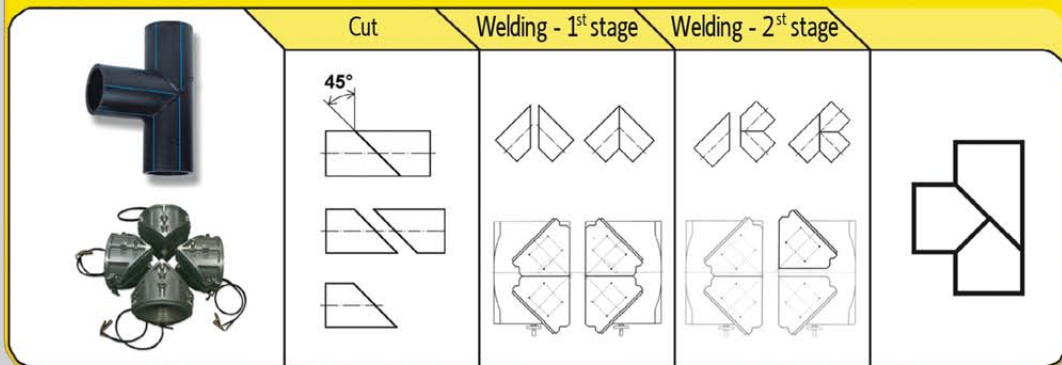
## ELBOWS



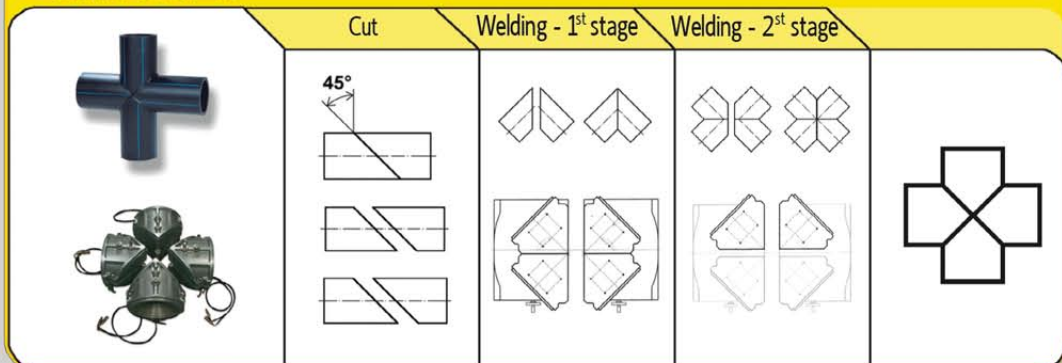
## WYES (Y)



## TEES



## CROSSES





# Ritmo

PLASTIC WELDING TECHNOLOGY

WHERE THERE'S PLASTIC TO WELD



CONTACT RITMO!

# **BASIC LINE**

## **BUTT FUSION MACHINES**



**RITMO S.p.A.**  
Via A. Volta, 7 35037  
Bressano di Teolo (PADOVA) ITALY

Ph. +39 049 9901888  
Fax +39 049 9901993

[info@ritmo.it](mailto:info@ritmo.it)  
[www.ritmo.it](http://www.ritmo.it)