

PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

www.ritmo.it



Meets all your welding needs on the jobsite



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About us

Starting from a small workshop in the province of Padua in 1979, with a lathe and a milling machine but with many ideas and passion, Renzo Bortoli shaped and brought to life what, year after year, became RITMO SPA: an internationally recognized company in the field of welding machines for plastic pipes and sheets.

Today, Ritmo continues to produce entirely in Italy, in Teolo, maintaining the spirit of a "Family Company," where professionals and skilled individuals passionately continue to offer their expertise to provide products that make a difference when used on-site.

Mission

A Ritmo product is not bought, it is chosen. Our mission is to transform challenges into solutions with innovation and adaptability, crafting machines that create strong connections and build trust, one weld at a time.



Rossella Contiero - CEO



Renzo Bortoli - Founder

165
COUNTRIES
where RITMO
has been supplying
products

OVER 100
PRODUCTS
ON CATALOG

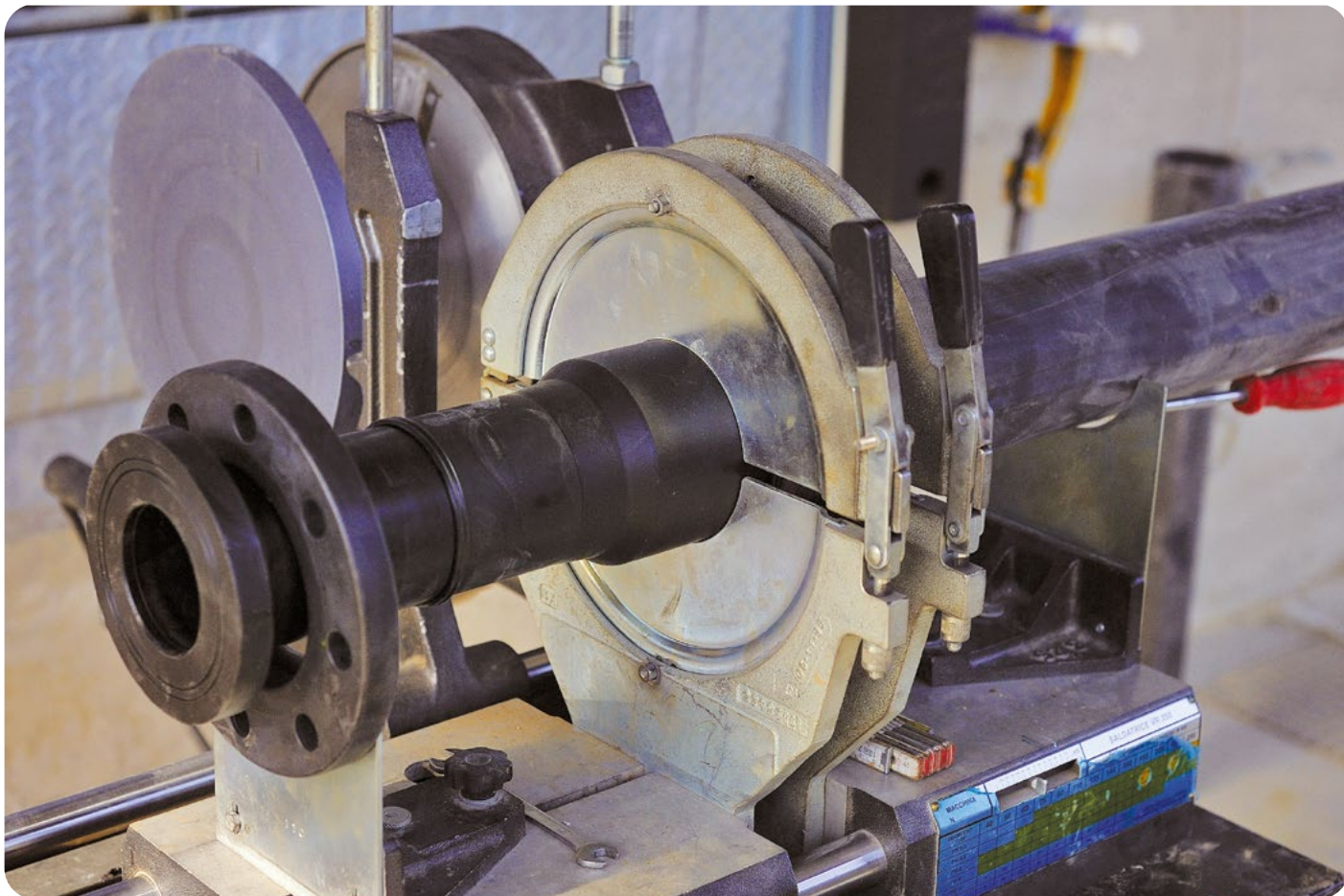
MADE
IN **ITALY**

90%
EXPORT

+ 80%
GROWTH
2014 - 2023



BUTT FUSION MACHINES *LIQUID DRAINAGE*



WORKING RANGE Ø mm	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315
MINI 160 JOYT	40	50	63	75	90	110	125	140	160						
MINI 160 JOYT ELBOWS	40	50	63	75	90	110	125	140	160						
VR 160 JOYT	40	50	63	75	90	110	125	140	160						
VR 250				75	90	110	125	140	160	180	200	225	250		
MAXI 315					90	110	125	140	160	180	200	225	250	280	315
WORKING RANGE Ø mm	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315

WORKING RANGE Ø mm / up to	110 mm / 3" DIPS	125 mm / 4" DIPS	180 mm / 6" DIPS	280 mm / 10" DIPS
TP 125 /45°	√	-	-	-
TP 125	√	√	-	-
TP 200	√	√	√	-
TP 300	√	√	√	√
WORKING RANGE Ø mm / up to	110 mm / 3" DIPS	125 mm / 4" DIPS	180 mm / 6" DIPS	280 mm / 10" DIPS

HEATING PLATES SERIES FOR BUTT WELDING

**PRATICAL
HEAT-INSULATED
PLASTIC
HANDLE**



TP 125/45°



TP 125



TP 200



TP 300

Series of manual instruments equipped with an aluminum heating plate Teflon-coated (PTFE) and a practical heat-insulated plastic handle. Available in two versions: one with a fixed mechanical thermostat (TF) and one with an adjustable electronic thermoregulator (TE). The heating plates are available in different shapes and working ranges according to the operator's requirements.

STANDARD COMPOSITION:

All the models are supplied with:

- A basic heating plate
- A fork support

ON REQUEST:

- Bench vice support (the same for all models except TP 300)
- Transportation box in electro-painted steel

TYPE: TE, TF	TP 125	TP 125/45°	TP 200	TP 300
Working range	up to Ø 125 mm; 4" DIPS	up to Ø 110 mm; 3" DIPS	up to Ø 180 mm; 6" DIPS	up to Ø 280 mm; 10" DIPS
Materials TE	HDPE, PP, PVC, PVDF	HDPE, PP, PVC, PVDF	HDPE, PP, PVC, PVDF	HDPE, PP, PVC, PVDF
Materials TF	HDPE	HDPE	HDPE	HDPE
Power supply	230 V S. Ph. 50/60 Hz	230 V S. Ph. 50/60 Hz	110 V S. Ph. 50/60 Hz (TE) 230 V S. Ph. 50/60 Hz	230 V S. Ph. 50/60 Hz
Max. absorbed power	700 W	500 W	850 W (TE 110 V) 1200 W	1300 W
Working temperature	180° ÷ 280° C ± 1% TE (356° ÷ 536° F ± 1% TE) 210° C ± 5% TF (410° F ± 5% TF)	180° ÷ 280° C ± 1% TE (356° ÷ 536° F ± 1% TE) 210° C ± 5% TF (410° F ± 5% TF)	180° ÷ 280° C ± 1% TE (356° ÷ 536° F ± 1% TE) 210° C ± 5% TF (410° F ± 5% TF)	180° ÷ 280° C ± 1% TE (356° ÷ 536° F ± 1% TE) 210° C ± 5% TF (410° F ± 5% TF)
Ambient temperature	-5° ÷ 40° C	5° ÷ 40° C	5° ÷ 40° C	5° ÷ 40° C
Time to reach welding temperature (TE)	~ 10'	~ 10'	~ 10'	~ 10'
Weight	2,16 Kg (4.7 lb)	1,95 Kg (4.3 lb)	3,21 Kg (7 lb)	5,09 Kg (11.2 lb)
Dimensions	140 x 50 x 410 mm 5.5" x 2" x 16.1"	140 x 130 x 370 mm 5.5" x 5.1" x 14.6"	200 x 50 x 440 mm 7.9" x 2" x 17.3"	300 x 50 x 550 mm 11.8" x 2" x 21.6"

MINI 160 JOYT - MINI 160 JOYT ELBOWS



MINI 160 JOYT



MINI 160 JOYT ELBOW

MINI 160 JOYT and MINI 160 JOYT ELBOWS are portable butt fusion welders for drainage pipes up to Ø 160 mm. These machines are characterized by the extractable heating plate, the safety microswitches on the milling cutter to avoid accidental starting, the articulated lateral supports. The Mini 160 Joyt has a frame, most useful during working and transportation. MINI 160 JOYT ELBOWS features special jaws for manufacturing elbows.

Available in two versions: one with a fixed mechanical thermostat (TF) and one with an adjustable electronic thermoregulator (TE). Power supply 110 V or 230 V versions.

Key features:

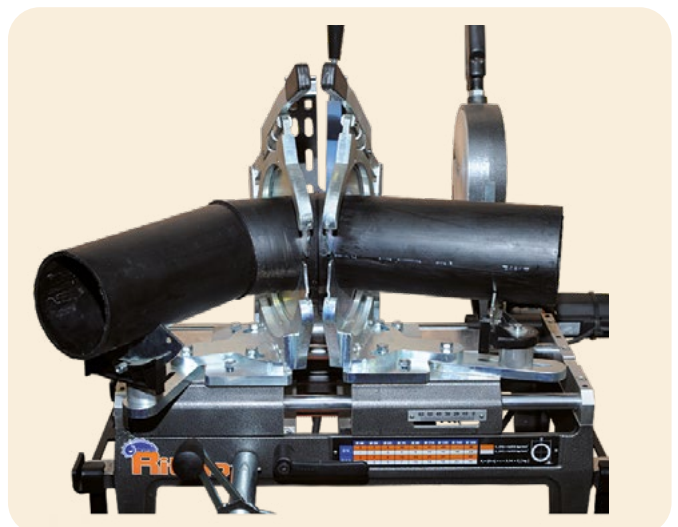
- The machine body includes a spring-loaded pressure-regulating device and the rack-feed movement of the carriage provided by a handwheel.
- The rapid-lock clamps, in order to be able to lock elbows (also with a very short neck), tees and Y-branches without the need of any additional device.
- The protection housing around the heating element.

STANDARD COMPOSITION:

- Machine body (with milling cutter, lateral supports and keys)
- Heating plate TP 200 TE or TP 200 TF
- Right clamp group Ø 160 JOYT
- Left clamp group Ø 160 JOYT
- Frame MINI 160 JOYT
- Case with set of clamps and lateral supports' adapters
Ø 40, 50, 63, 75, 90, 110, 125 mm

ON REQUEST:

- Clamps and lateral supports' adapters
Ø 56, 135, 140 mm
- Milling cutter blade SILENT (for Geberit)



MINI 160 JOYT ELBOW

VR 160 JOYT

VR 250

VR 160 JOYT and VR 250 are portable butt fusion welders for drainage pipes.

VR 160 JOYT up to Ø 160 mm; VR 250 up to Ø 250 mm.

STANDARD COMPOSITION:

VR 160 JOYT

- Machine body (with milling cutter, lateral supports and keys)
- Heating plate TP 200 TE or TP 200 TF
- Right clamp group Ø 160 JOYT
- Left clamp group Ø 160 JOYT
- Frame VR 160 JOYT
- Case with set of clamps and lateral supports' adapters Ø 40, 50, 63, 75, 90, 110, 125 mm

VR 250

- Machine body with a milling cutter, lateral supports, clamps adapters and lateral supports adapters from Ø 75 to Ø 250 mm (Ø 140 and 180 mm on request), working/transport case steel, service spanners
- TP VR 250 TE plate
- Right and left clamp Ø 250 mm

ON REQUEST:

VR 160 JOYT

- Clamps and lateral supports' adapters Ø 56, 135, 140 mm
- Milling cutter blade SILENT (for Geberit)

VR 250

- Clamps adapters Ø 140 and 180 mm
- Lateral supports adapters Ø 140 and 180 mm
- Sets of extractable upper jaws SUPRA from Ø 75 to 225 mm
- Wooden case for SUPRA extractable upper jaws

MAXI 315

A professional welding machine ideal for medium sized pipes and sewers up to Ø 315 mm it can weld fittings such as bends and tees.

STANDARD COMPOSITION:

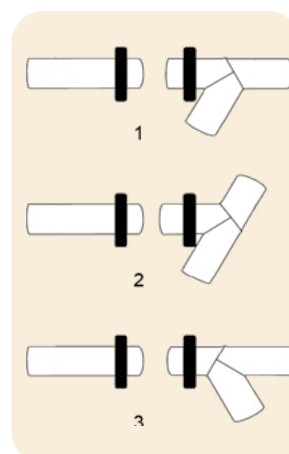
- Machine body with a milling cutter and lateral supports
- TP 315 TE plate
- Right and Left clamp Ø 315
- Steel frame on wheels (for transporting and for use as a work bench)
- Metal case with clamps and lateral supports adapters Ø 200 and 250 mm



VR 160 JOYT



VR 250



VR 160 JOYT

"Joyt" identifies the type of clamps adopted on this machine. They have been specifically designed to be able to lock Y-branches in all the possible positions (drawings 1,2,3).

VR 250

"Supra" identifies the different type of clamps mounted on this welding machine. They have been specifically designed to be able to lock "branch" fittings: with extractable and interchangeable jaws, shaped according to the diameter to weld (drawings 1, 2, 3).

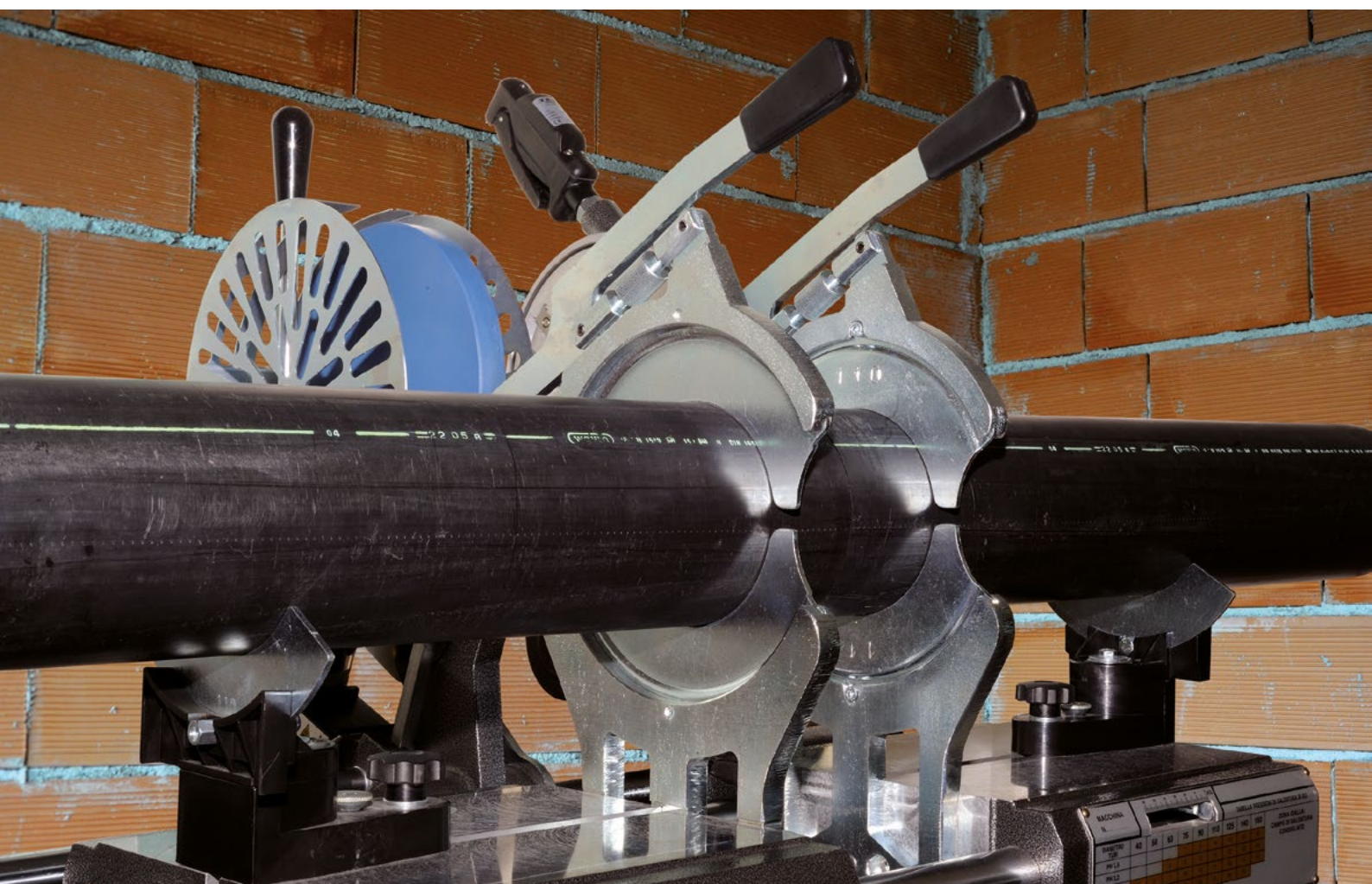


ON REQUEST:

- Clamp adapters Ø 90, 110, 125, 140, 160, 180, 225, 280 mm
- Lateral supports adapters Ø 90, 110, 125, 140, 160, 180, 225, 280 mm

PRODUCTS OVERVIEW

Models	MINI 160 JOYT	MINI 160 JOYT ELBOW	VR 160 JOYT	VR 250	MAXI 315
Working range	40 ÷ 160 mm	40 ÷ 160 mm	40 ÷ 160 mm	75 ÷ 250 mm	90 ÷ 315 mm
Materials	HDPE, PP, PVDF	HDPE, PP, PVDF	HDPE, PP, PB, PVDF	HDPE, PP, PB, PVDF	HDPE, PP, PB, PVDF
Welding elbow	-	✓	-	-	-
Power supply 110 V S.Ph. 50/60 Hz	✓	✓	✓	-	✓
Power supply 230 V S.Ph. 50/60 Hz	✓	✓	✓	✓	✓
Max. absorbed power	1950 w (110 V) 2250 W (230 V)	1950 w (110 V) 2250 W (230 V)	1950 W (110 V) 2250 W (230 V)	2200 W	3750 W (110 V) 3900 W (230 V)
Working temperature	180° ÷ 280° C (TE) 210° C (TF)	180° ÷ 280° C (TE) 210° C (TF)	180° ÷ 280° C (TE) 210° C (TF)	180° ÷ 280° C	180° ÷ 280° C
Outside temperature range	-5° ÷ 40° C	-5° ÷ 40° C	-5° ÷ 40° C	-5° ÷ 40° C	-5° ÷ 40° C
Time to reach welding temperature	~ 10' (TE)	~ 10' (TE)	~ 10' (TE)	~ 20'	~ 20'
Weight	50 Kg	50 Kg	95 Kg	123 Kg	183 Kg
Dimensions (mm) machine working	664 x 580 x 235	664 x 580 x 235	1055 x 925 x 1235	835 x 1240 x 1530	1420 x 1300 x 1570



ADVANTAGE RITMO

RITMO WORLDWIDE

Ritmo has professional distributors and resellers all over the world. Our staff is ready to assist you in Italian, English, Spanish, French, German, Arab, Russian.

TRAINING

From many years now, we have decided that the best way to grant a client/distributor a perfect knowledge of our products is to invest in custom training, in our own premises. These courses are aimed to teach how to operate the products in the best way, and how to supply the "first aid" when necessary.

PRESALES TECHNICAL ASSISTANCE

When a client or a potential client wants to buy us a product, it is our standard procedure to help find the best solution to its needs.

GLOBAL ADVICE

In such a technical field as ours, the customer requires the best assistance. Thanks to the experience developed along the years, and to the co-operation with several manufacturers, institutions, schools and training institutes, RITMO is able to give the most comprehensive advice to no matter which related issue.

Our company is a long-time member of a UNIPLAST's (UNI-Italian National Plastics Standards Body) working group dedicated to the study and draw up of new standards within our field. The importance of this group is linked to the fact that the expansion of the plastic welding field ought to be followed by a crescent sensitivity for safety issues, so to have a sustainable and continuous growth. The working group prepares draws, hence present them to the UNI to be discussed and eventually transformed into new standards.

AFTER SALES TECHNICAL ASSISTANCE

Ritmo's Service Centre can solve all kind of technical issues, as well as overhaul our machines. Ritmo has other Service Centres abroad, linked to its official distributors.

STARTING AND TESTING

RITMO' technicians are prepared to make the starting and testing of workshop machines at the client' own premises, so that the fittings production can start almost immediately.



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