

PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

www.ritmo.it



Meets all your welding needs on the jobsite



The information and photos in this publication are not binding and RITMO S.P.A. is free to make any alterations without prior notice.



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

WORK PHILOSOPHY AVAILABLE TO EVERYONE!

MANUAL

- welding machines without hydraulic gearcase



HYDRAULIC

- welding machines with hydraulic gearcase



EASY LIFE SYSTEM *HIGH LEVEL PERFORMANCE*

- automated welding cycle
- welding machines with special hydraulic gearcase
- Hardware and Software interact to the entire workflow
- repetition of welding cycles
- GPS, data-logging and report PDF
- APP "SET & GO PRO" (optional)



REMEDY *HIGH LEVEL PERFORMANCE*

- high productivity welding machine
- self-contained generator on board
- self-propelled
- tracked welding machine
- drives over 35% slopes



CNC *HIGH LEVEL PERFORMANCE*

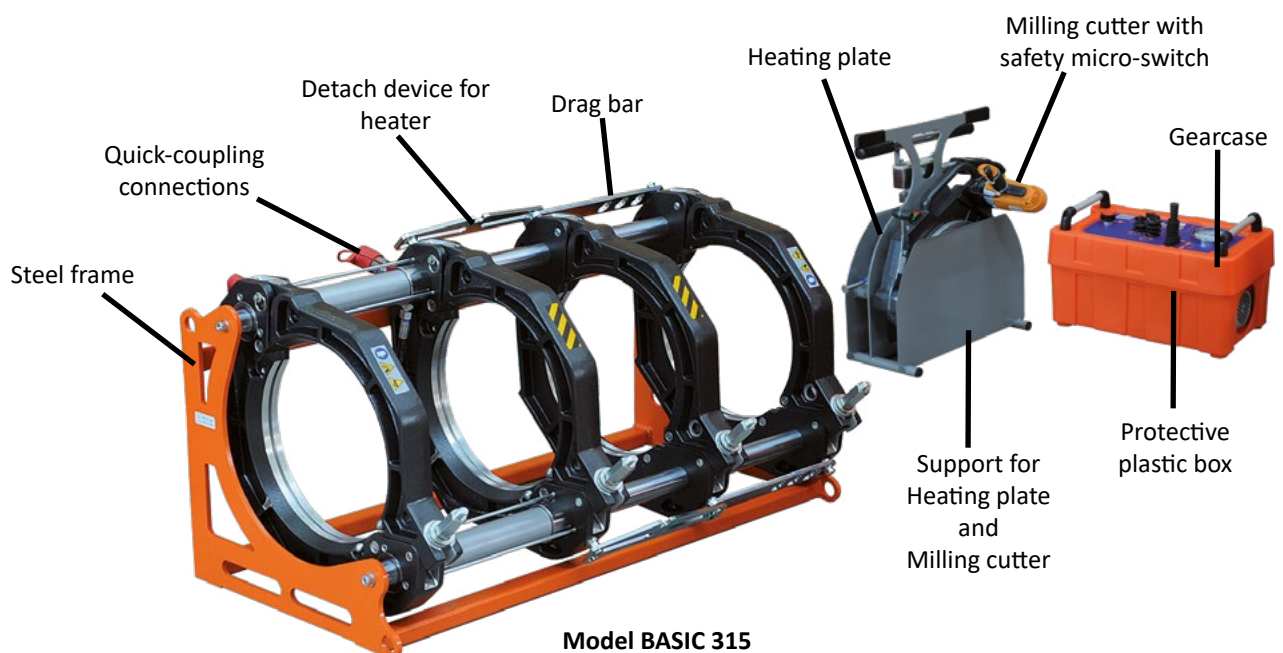
- automatic welding cycle
- special hydraulic gearcase
- mechanical extraction of heating plate
- Hardware and Software interact to the entire workflow
- repetition of welding cycles
- GPS, data-logging and report PDF



BASIC LINE

RELIABILITY SINCE 2009

A COMPLETE
SYSTEM
FOR
SMALL & MEDIUM
DIAMETERS



ITALIAN STYLE

100%
QUALITY



Reliability and Precision

Thanks to the use of high-quality components and a careful design and manufacturing process, BASIC welding machines guarantee reliable and precise welding results, contributing to the success of your jobsite.

Versatility and Flexibility

The BASIC range includes models capable of working from Ø 40 to 355 mm, to offering a solution suitable for a wide variety of applications, from the water/gas pipeline sector to the industrial sector. This flexibility allows us to tackle even the most complex projects in the best possible way.

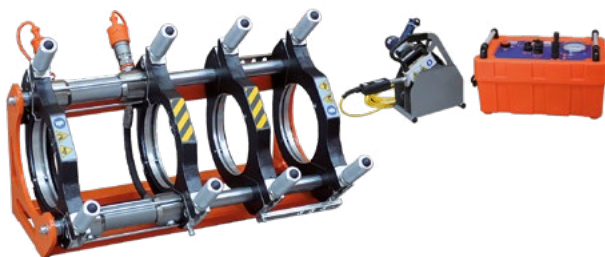
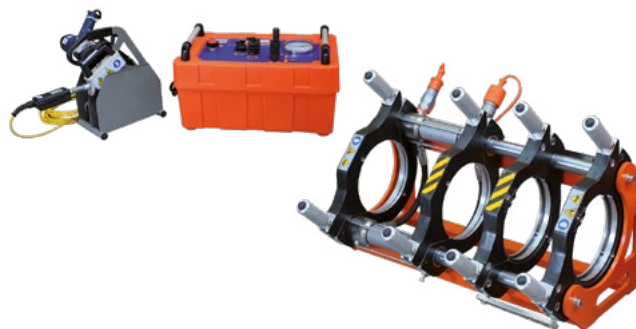
ALWAYS
PERFECT
WELDS



PERFECT SET

BASIC 160

Welds under-pressure pipes for water, gas and other fluids up to Ø 160 mm, 5" IPS. Available in the 110 V and 230 V versions.



BASIC 200

Welds under-pressure pipes for water, gas and other fluids up to Ø 200 mm 6", DIPS. Available in the 110 V and 230 V versions.



BASIC 250

Welds under-pressure pipes for water, gas and other fluids up to Ø 250 mm, 8" DIPS. Available in the 110 V and 230 V versions.



BASIC 315

Welds under-pressure pipes for water, gas and other fluids up to Ø 315 mm, 10" DIPS. Available in the 110 V and 230 V versions.

BASIC 355

Welds under-pressure pipes for water, gas and other fluids up to Ø 355 mm, 12" DIPS. Available in the 230 V version.



**BASIC,
ONLY IN
NAME**

**DIGITAL
DRAGON**

Digital Dragon

Built-in independent
thermometer

Teflon-coated
(PTFE)

Heating plate with 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.

(Standard configuration see table on page 25)



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 (no model Basic 355).

It includes a control lever, to open and close the body machine, 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).

**SMARTLOCK
PATENTED**

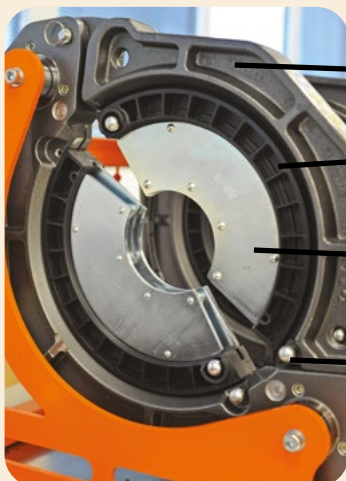
Clamps

Master

Inserts (on request)
Available in Metric or
Inch sizes

Smartlock
system

Smartlock patented by Ritmo.
Fast locking/unlocking of inserts.
No tools required.





Detach device for heater 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.



With drag bar, Basic is able to weld fittings like elbows, tees, Y-branches and flanges necks.

**A
COMPLETE
SYSTEM**



Trolley (on request)



Support for heating plate and milling cutter



Special clamps Basic 250 /315 (on request)



Tool for flange necks (on request)

TECHNICAL FEATURES	BASIC 160	BASIC 200	BASIC 250	BASIC 315	BASIC 355
Working range	40 ÷ 160 mm; 1" IPS ÷ 5" IPS	63 ÷ 200 mm; 2" IPS ÷ 6" DIPS	75 ÷ 250 mm; 2" IPS ÷ 8" DIPS	90 ÷ 315 mm; 3" IPS ÷ 10" DIPS	125 ÷ 355 mm; 4" IPS ÷ 14" IPS
Materials for more details contact RITMO S.P.A.	HDPE, PP, PP-R, PVDF	HDPE, PP, PP-R, PB, PVDF	HDPE, PP, PP-R, PB, PVDF	HDPE, PP, PP-R, PB, PVDF	HDPE, PP, PP-R, PB, PVDF
Inserts with Smartlock system	-	-	✓	✓	✓
Master Ø 250 mm	-	-	-	✓	✓
Working temperature	180° ÷ 260° C (356° ÷ 500° F)	180° ÷ 260° C (356° ÷ 500° F)	180° ÷ 260° C (356° ÷ 500° F)	180° ÷ 260° C (356° ÷ 500° F)	180° ÷ 260° C (356° ÷ 500° F)
Thermoregulator Digital Dragon	✓	✓	✓	✓	✓
Total absorbed power	2400 W - 110 V 2220 w - 230 V	3220 W	3420 W	4420 W	5600 W - 110 V 6000 w - 230 V
Power supply	230 V S. Ph 50/60 Hz 110 V S. Ph. 50/60 Hz	230 V S. Ph 50/60 Hz 110 V S. Ph. 50/60 Hz	230 V S. Ph 50/60 Hz 110 V S. Ph. 50/60 Hz	230 V S. Ph 50/60 Hz 110 V S. Ph. 50/60 Hz	110 V Single Phase 50/60 Hz
Suggested power generator	3,5 ÷ 4kVA	5,5 ÷ 6kVA	5,5 ÷ 6kVA	6,5 ÷ 7kVA	8 ÷ 8,5kVA
Time to reach welding T°	< 20'	< 20'	< 20'	< 20'	< 20'
Outside T° range	-10° ÷ 40° C (14° ÷ 104° F)	-10° ÷ 40° C (14° ÷ 104° F)	-10° ÷ 40° C (14° ÷ 104° F)	-10° ÷ 40° C (14° ÷ 104° F)	-10° ÷ 40° C (14° ÷ 104° F)
Milling cutter with safety micro-switch	✓	✓	✓	✓	✓
Gearcase	Plastic box	Plastic box	Plastic box	Plastic box	Metal box
Pressure range (bar)	0 ÷ 150	0 ÷ 150	0 ÷ 150	0 ÷ 150	0 ÷ 120
Dimensions machine body (W x D x H)	606 x 365 x 375 mm (24" x 14.5" x 15")	685 x 460 x 420 mm (27" x 18" x 15.5")	850 x 470 x 400 mm (33.5" x 18.5" x 16")	981x 586 x 520 mm (38.6" x 23" x 20.5")	1077 x 510 x 715 mm (42,4" x 20" x 28")
Dimensions gearcase (W x D x H)	470 x 250 x 370 mm (18.5" x 9.8" x 14.5")	470 x 250 x 370 mm (18.5" x 9.8" x 14.5")	470 x 250 x 370 mm (18.5" x 9.8" x 14.5")	470 x 250 x 370 mm (18.5" x 9.8" x 14.5")	560 x 300 x 400 mm (21.6" x 11.8" x 15.7")
Weight machine body	31 Kg (68 lb)	39 Kg (86 lb)	63 Kg (139 lb)	86 Kg (190 lb)	100 Kg (220.5 lb)
Weight standard composition	75 Kg (165 lb)	90 Kg (198 lb)	121 Kg (267 lb)	163 Kg (359 lb)	205 Kg (452 lb)

ON REQUEST:

BASIC 160

Inserts Ø 40 ÷ 140 mm;
1" ÷ 5" IPS; 3" ÷ 4" DIPS
Pre-insulated bag for heating plate
Trolley
Rollers
Tool for flange necks
Data -logging Inspector 2.0

BASIC 315

Inserts Ø 90 ÷ 280 mm
3" ÷ 10" IPS; 3" ÷ 10" DIPS
Wooden case for inserts
Pre-insulated bag for heating plate
Machine body Trolley
Milling cutter - hating plate Trolley
Rollers
Tool for flange necks
Data -logging Inspector 2.0

BASIC 200

Inserts Ø 63 ÷ 180 mm;
2" ÷ 6" IPS; 3" ÷ 6" DIPS
Pre-insulated bag for heating plate
Trolley
Rollers
Tool for flange necks
Data -logging Inspector 2.0

BASIC 355

Inserts Ø 125 ÷ 315 mm
4" ÷ 12" IPS; 4" ÷ 12" DIPS
Wooden case for inserts
Pre-insulated bag for heating plate
Trolley
Rollers
Tool for flange necks
Data -logging Inspector 2.0

BASIC 250

Inserts Ø 75 ÷ 225 mm;
2" ÷ 8" IPS; 3" ÷ 8" DIPS
Wooden case for inserts
Pre-insulated bag for heating plate
Machine body Trolley
Milling cutter - hating plate Trolley
Rollers
Tool for flange necks
Top Clamp Short Elbows/Tee
Data -logging Inspector 2.0

INSPECTOR 2.0

Certify Your Construction Site Welding Quality with Ritmo's Next-Generation Technology. Inspector 2.0 powerful new data-logging system.

Key Features:

- User-friendly graphical interface for effortless operation and data review
- Real-time pressure and time monitoring with continuous visual feedback
- Ruggedized 7" tablet with IP67 protection
- Full compatibility with Ritmo's hydraulic welding machines (Basic, Delta, and Remedy series) or other brands
- Standard pressure recording up to 160 Bar - 2175 psi (optional accessory extends capacity to 250 Bar - 3670 psi)
- Comprehensive data capture beyond standard parameters
- Welding specifications and standards
- GPS location tracking and Jobsite information
- Operator identification and Equipment details

Inspector 2.0: Your definitive solution for verifiable quality assurance in the field.

CLOUD

WWW.ORANGECLLOUD.RITMO.IT



1 - RECORD

2 - ARCHIVE

3 - DELIVER

4 - ANALYSIS

Orangecloud is Ritmo's innovative service designed to meet the increasing demands for accountability and documentation in the construction industry.

Key Capabilities:

- Secure cloud-based storage for all project documentation
- Structured organization of essential data including: Construction site details - Welding machine identification and serial numbers
- Operator credentials
- Comprehensive welding charts and parameters

Enhanced Security & Collaboration:

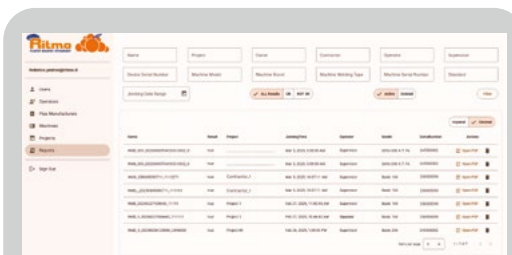
- Customizable permission settings for controlled information access
- Confidential data protection with robust security protocols
- Streamlined information sharing across teams and stakeholders

Business Benefits:

- Improved process traceability throughout project lifecycle
- Enhanced team collaboration and communication
- Simplified compliance documentation
- Centralized management of critical operational data

Orangecloud: Elevating construction site efficiency through superior data management.

REAL - TIME COMMUNICATION



Cloud area - www.orangecloud.ritmo.it



Report - www.orangecloud.ritmo.it



BUTT FUSION MACHINES REFERENCE

WORKING RANGE Ø mm MANUAL BUTT WELDING	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600
GAMMA 160	*	40	50	63	75	90	110	125	140	160																			
DELTA 160 M	32	40	50	63	75	90	110	125	140	160																			
DELTA 200 M				63	75	90	110	125	140	160	180	200																	
WORKING RANGE Ø mm HYDRAULIC BUTT WELDING		40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600
BASIC 160 BASIC 160 EASY LIFE COMPACT 160		40	50	63	75	90	110	125	140	160																			
BASIC 200 BASIC 200 EASY LIFE				63	75	90	110	125	140	160	180	200																	
BASIC 250 BASIC 250 EASY LIFE DELTA DRAGON 250 CNC DELTA 250 TRAILER DELTA 250 TRAILER MANUAL COMPACT 250					75	90	110	125	140	160	180	200	225	250															
BASIC 315 BASIC 315 EASY LIFE DELTA DRAGON 315 CNC						90	110	125	140	160	180	200	225	250	280	315													
BASIC 355 BASIC 355 EASY LIFE DELTA 355 TRAILER REMEDY 355 COMPACT 355								125	140	160	180	200	225	250	280	315	355												
DELTA 500 DELTA 500 EASY LIFE DELTA 500 TRAILER REMEDY 500 V1												200	225	250	280	315	355	400	450	500									
DELTA 630 TRAILER DELTA 630 ALL TERRAIN													225	250	280	315	355	400	450	500	560	630							
DELTA 630 DELTA 630 EASY LIFE COMPACT 630															280	315	355	400	450	500	560	630							
DELTA 800 DELTA 800 EASY LIFE																				500	560	630	710	800					
DELTA 1000 TRAILER REMEDY 1000																315	355	400	450	500	560	630	710	800	900	1000			
DELTA 1000 DELTA 1000 EASY LIFE																						630	710	800	900	1000			
DELTA 1200																							710	800	900	1000	1200		
DELTA 1600 ECO / 1600 HDR																								800	900	1000	1200	1400	1600
WORKING RANGE Ø mm		40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600

WORKING RANGE Ø CTS / IPS MANUAL BUTT WELDING	1" CTS	1¼" CTS	1½" CTS	2" CTS	1"	1¼"	1½"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	42"	48"	52"	54"	63"
GAMMA 160					1"	1¼"	1½"	2"	3"	4"	5"																					
DELTA 160 M	1"	1¼"	1½"	2"	1"	1¼"	1½"	2"	3"	4"	5"																					
DELTA 200 M								2"	3"	4"	5"	6"																				
WORKING RANGE Ø IPS HYDRAULIC BUTT WELDING					1"	1¼"	1½"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	42"	48"	52"	54"	63"
BASIC 160 BASIC 160 EASY LIFE					1"	1¼"	1½"	2"	3"	4"	5"																					
BASIC 200 BASIC 200 EASY LIFE								2"	3"	4"	5"	6"																				
BASIC 250 BASIC 250 EASY LIFE DELTA 250 TRAILER DELTA 250 TRAILER MANUAL								2"	3"	4"	5"	6"	8"																			
BASIC 315 BASIC 315 EASY LIFE									3"	4"	5"	6"	8"	10"																		
BASIC 355 BASIC 355 EASY LIFE REMEDY 355 DELTA 355 TRAILER COMPACT 355										4"	5"	6"	8"	10"	12"	14"																
DELTA 500 TRAILER REMEDY 500 V1												6"	8"	10"	12"	14"	16"	18"	20"													
DELTA 500 DELTA 500 EASY LIFE													8"	10"	12"	14"	16"	18"														
DELTA 630 TRAILER DELTA 630 ALL TERRAIN													8"	10"	12"	14"	16"	18"	20"	22"	24"											
DELTA 630 DELTA 630 EASY LIFE														10"	12"	14"	16"	18"	20"	22"	24"											
DELTA 800 DELTA 800 EASY LIFE																			20"	22"	24"	26"	28"	30"								
REMEDY 1000 DELTA 1000 TRAILER																14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"					
DELTA1000 DELTA 1000 EASY LIFE																				24"	26"	28"	30"	32"	34"	36"						
DELTA 48"																						28"	30"	32"	34"	36"	42"	48"				
DELTA 1600 HDR																									32"	34"	36"	42"	48"	52"	54"	63"
WORKING RANGE Ø IPS	1" CTS	1¼" CTS	1½" CTS	2" CTS	1"	1¼"	1½"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	42"	48"	52"	54"	63"

WORKING RANGE Ø DIPS MANUAL BUTT WELDING	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"
GAMMA 160	3"	4"															
DELTA 160 M	3"	4"															
DELTA 200 M	3"	4"	6"														
WORKING RANGE Ø DIPS HYDRAULIC BUTT WELDING	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"
BASIC 160 / BASIC 160 EASY LIFE	3"	4"															
BASIC 200 / BASIC 200 EASY LIFE	3"	4"	6"														
BASIC 250 / BASIC 250 EASY LIFE DELTA 250 TRAILER DELTA 250 TRAILER MANUAL	3"	4"	6"	8"													
BASIC 315 / BASIC 315 EASY LIFE	3"	4"	6"	8"	10"												
BASIC 355 / BASIC 355 EASY LIFE REMEDY 355 DELTA 355 TRAILER COMPACT 355		4"	6"	8"	10"	12"											
DELTA 500 TRAILER REMEDY 500 V1			6"	8"	10"	12"	14"	16"	18"								
DELTA 500 / DELTA 500 EASY LIFE				8"	10"	12"	14"	16"	18"								
DELTA 630 TRAILER DELTA 630 ALL TERRAIN				8"	10"	12"	14"	16"	18"	20"	24"						
DELTA 630 / DELTA 630 EASY LIFE					10"	12"	14"	16"	18"	20"							
DELTA 800 / DELTA 800 EASY LIFE									18"	20"	24"						
REMEDY 1000 EL DELTA 1000 TRAILER							14"	16"	18"	20"	24"	30"	36"				
DELTA 48"												30"	36"	42"			
DELTA 1600 HDR												30"	36"	42"	48"	54"	60"
WORKING RANGE Ø DIPS	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"



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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