

PRODUCTS CATALOGUE

"AT EASE IN YOUR CONSTRUCTION SITE"

www.ritmo.it





Ritmo meets all your welding needs in your 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.

ADVANTAGE RITMO



RITMO WORLDWIDE

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

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.

RITMO'S 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)



- **ALL TERRAIN** *HIGH LEVEL PERFORMANCE*

self-contained generator on board

self-propelled

trolley with wheels

welding machines with special hydraulic gearcase

automated welding cycle

Hardware and Software interact to the entire workflow

repetition of welding cycles

GPS, data-logging and report PDF,

APP "SET & GO PRO" (optional)



- **CNC** *HIGH LEVEL PERFORMANCE*

automatic welding cycle

special hydraulic gearcase and machine body with

integrated mechanical extraction of heating plate

Hardware and Software interact to the entire workflow

repetition of welding cycles

GPS, data-logging and report PDF





BASIC 355

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 355 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 electrohydraulic gearcase with a clamps opening and closing lever, maximum pressure and release valves (also useful when welding with the "Dual Pressure" procedure), hydraulic hoses with non-drip quick couplings, a timer (for the heating and welding phases). The machine is preset for the connection of the electronic controller THE INSPECTOR.
- A milling cutter/ heating plate support

BASIC 355 is able to weld fittings like elbows, tees, Y-branches and flanges necks.
Available in the 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
8 ÷ 8,5kVA

| | |
|-------------------------------------|--|
| Working range | 125 ÷ 355 mm; 4" IPS ÷ 14" IPS |
| Materials | HDPE, PP, PP-R, PVDF For other materials contact RITMO S.P.A. |
| Power supply* | 230 V Single Phase 50/60 Hz |
| Total absorbed power | 5750 W |
| 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) | 1077 x 510 x 715 mm (42.5" x 20" x 28") |
| Weight machine body | 100 Kg (220.5 lb) |
| Weight standard composition | 205 Kg (452 lb) |

ON REQUEST



Inserts
Ø 125 ÷ 315 mm
master Ø 250 mm



Tool for flange
necks



Trolley



The INSPECTOR
Data-logging



Rollers



watch the video

and:
Inserts Ø 4" ÷ 12" IPS; 4" ÷ 12" DIPS master Ø 250 mm
pre-insulated bag for heating plate, wooden case for inserts

Peru



BUTT FUSION MACHINES REFERENCE



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

| CTS | 1" | 1¼" | 1½" | 2" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|----|-----|-----|----|----|-----|-----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|--|--|
| IPS | | | | | 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 | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DELTA 160 M | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | |
| DELTA 200 M | | | | | | | | | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | |
| BASIC 160 | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | |
| BASIC 200 | | | | | | | | | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | |
| BASIC 250 | | | | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | |
| BASIC 315 | | | | | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | |
| BASIC 355 | | | | | | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| COMPACT 355 | | | | | | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | |
| BASIC 160 EASY LIFE | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | |
| BASIC 200 EASY LIFE | | | | | | | | | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | |
| BASIC 250 EASY LIFE | | | | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | |
| BASIC 315 EASY LIFE | | | | | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | |
| BASIC 355 EASY LIFE | | | | | | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| DELTA 500 EASY LIFE | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 630 EASY LIFE | | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 500 | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 630 | | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 800 | | | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 1000 | | | | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 48" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DELTA 1600 ECO / 1600 HDR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DELTA TRAILER 250 | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 355 TRAILER | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 355 ALL TERRAIN | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 500 TRAILER | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 500 ALL TERRAIN | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 630 TRAILER | | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 630 ALL TERRAIN | | | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| DELTA 1000 TRAILER | | | | | | | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| IPS | | | | | 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" | | | | | |

| DIPS | 3" | 4" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" | 30" | 36" | 42" | 48" | 54" | 60" | | | |
|---------------------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|
| GAMMA 160 | | • | | | | | | | | | | | | | | | | | | |
| DELTA 160 M | • | • | | | | | | | | | | | | | | | | | | |
| DELTA 200 M | • | • | • | | | | | | | | | | | | | | | | | |
| BASIC 160 | • | • | | | | | | | | | | | | | | | | | | |
| BASIC 200 | • | • | • | | | | | | | | | | | | | | | | | |
| BASIC 250 | • | • | • | • | | | | | | | | | | | | | | | | |
| BASIC 315 | • | • | • | • | • | | | | | | | | | | | | | | | |
| BASIC 355 | • | • | • | • | • | • | | | | | | | | | | | | | | |
| COMPACT 355 | • | • | • | • | • | • | • | | | | | | | | | | | | | |
| BASIC 160 EASY LIFE | • | • | | | | | | | | | | | | | | | | | | |
| BASIC 200 EASY LIFE | • | • | • | | | | | | | | | | | | | | | | | |
| BASIC 250 EASY LIFE | • | • | • | • | | | | | | | | | | | | | | | | |
| BASIC 315 EASY LIFE | • | • | • | • | • | | | | | | | | | | | | | | | |
| BASIC 355 EASY LIFE | • | • | • | • | • | • | | | | | | | | | | | | | | |
| DELTA 500 EASY LIFE | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 630 EASY LIFE | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 500 | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 630 | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 800 | | | | | | | | | | | • | • | • | • | • | • | • | • | • | • |
| DELTA 48" | | | | | | | | | | | | • | • | • | • | • | • | • | • | • |
| DELTA 1600 ECO / 1600 HDR | | | | | | | | | | | | | • | • | • | • | • | • | • | • |
| DELTA TRAILER 250 | • | • | • | • | | | | | | | | | | | | | | | | |
| DELTA 355 TRAILER | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 355 ALL TERRAIN | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 500 TRAILER | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 500 ALL TERRAIN | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 630 TRAILER | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 630 ALL TERRAIN | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DELTA 1000 TRAILER | | | | | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| DIPS | 3" | 4" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" | 30" | 36" | 42" | 48" | 54" | 60" | | | |







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