

Standard model

RX1 Series

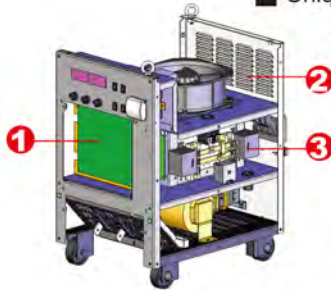
Digital CO₂/MAG Welding Machine

CO₂/MAG



High reliability under fierce operational surroundings

Unique 3-layer 4-chamber design



- The single highly integrated main control PC Board is adopted, easy for maintenance.
- 3-layer 4-chamber structure enjoys superior dust-proof performance; the separate air passage and high-power cooling fan enable machine to with stand 50 degrees Celsius.
- The output terminals are placed in dust-proof structure. The enclosure class is as high as IP23 offering fine raindrop-proof and drip-proof performance.

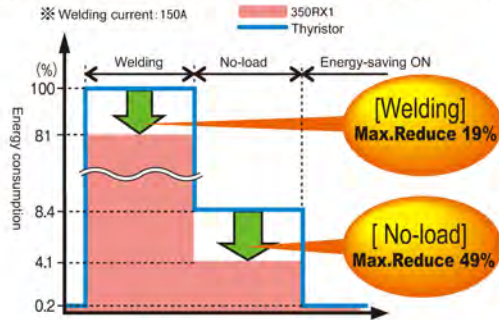
High reliability, light weight and easy operation

- Designed for high temperature (50 degree Celsius) and humidity resistance
Inherited the features of easy operation

A higher level energy-saving technologies

(Integrate Panasonic advanced control technologies on energy-saving)

- Compare the energy consumption with thyristor model



[WELDING]

- Compared with thyristor controlled welding machine, more power consumption can be significantly reduced.
- Thanks to the high speed CPU, higher wire feeding stability, more concentrated arc voltage and remarkable energy-saving effect are achievable.

[STAND-BY]

- After welding, the power supply of the transformer can be cut off, eliminating the no-load loss. Hence, the stand-by power consumption is greatly lowered.
- [The power-saving circuit is configured as standard specification]
- The power-saving circuit takes action seven minutes after the end of welding.



Turn clockwise to make the arc harder		The narrower arc, stronger arc force and higher transfer frequency are suitable for all-position welding at low current.	<p>ARC CONTROL STANDARD SOFT HARD</p> <p>The knob generally set to the standard position.</p>
Turn anticlockwise to make the arc softer		The softer arc and smoother welding bead are suitable for horizontal welding at high current.	

Easy to realize high quality welding

- Equipped with digital wave control

Joint: Fillet welding Base metal: Mild Steel
 Thickness: 1.2mm Welding Current: 110A
 Wire Dia.: 1.2mm(YGW12) Gas: MAG (Ar: 80% CO₂: 20%)



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Digital CO₂/MAG Welding Machine

- Equipped with Unitary function



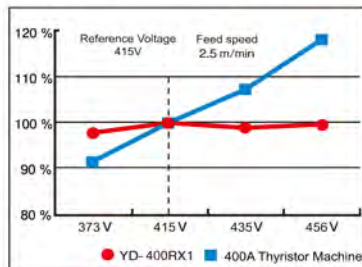
Remote controller

The welding voltage can automatically match the welding current. The fine-tuning of voltage can be realized as per individual operational habit.

- Applicable to various solid and flux-cored welding wires

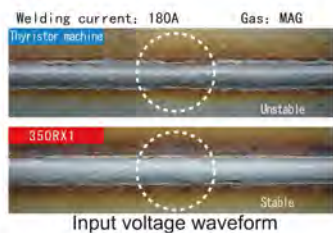
Material	Gas	350RX1 Dia.	400RX1 Dia.	Result
MD Solid	CO ₂	0.9	0.8	○
		1.0	1.0	○
		1.2	1.2	○
	MAG	0.9	0.8	○
		1.0	1.0	○
		1.2	1.2	○
MD flux-cored	CO ₂	1.2	1.2	○

- Uniform and stable wire feed
- Input voltage and wire consumption

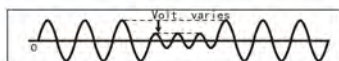


The wire feed system remains constant over a wide range of input voltage fluctuation.

- The welding results on the condition of fluctuating input voltage



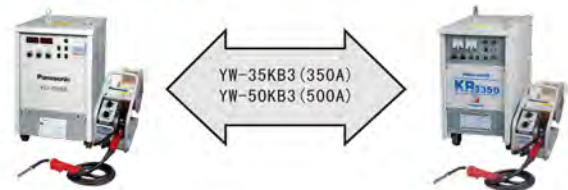
Input voltage waveform



■ Specifications

Model		YD-350RX	YD-400RX
Rated input voltage	V	380 AC	415 AC
Rated frequency	Hz	50/60 (Common)	
Number of phase		3-phase	
Rated input	kVA	13.2	16.2
	kW	12.7	15.6
Maximum non-load voltage	V	DC 69	
Rated output current	A	DC 350	DC 400
Rated output voltage	V	DC 31.5	DC 34
Output current adjustable range	A	DC 50—430	
Output voltage adjustable range	V	DC 16.5—35.5	
Rated duty cycle	%	60	
Power control method	-	IGBT inverter type	
Applicable welding method	-	CO ₂ , MAG	
Waveform control method	-	Digital control	
Sequence	-	Main welding, Main welding-Crater ("Crater repeat" is available), Initial- Main welding- Crater ("Crater repeat" is available)	
Applicable shielding gas	-	CO ₂ (100 %), MAG (80 % Argon and 20 % CO ₂)	
Applicable wire size (diameter)	mm	0.8, 1.0, 1.2	
Applicable wire material (Note)	-	Mild steel (MS) Flux cored mild steel (MS-FCW) Stainless steel Flux cored stainless steel (SUS-FCW)	
Gas purge time	-	1 second - 1 minute / continuous	
Pre-flow time	s	0-0.1-5.0	
Post-flow time	s	0-0.4-5.0	
Input power terminal	-	Terminal block (for 3-phase, M5 bolting)	
Output terminal	-	Copper terminal with M8 bolting	
Dimension (LengthxWidthxHeight)	mm	545x380x570	
Mass	kg	52	

- The wire feeder of RX1 machine is interchangeable to that of KR2.



■ Well-considered protection functions

- Lightning-proof
- Phase failure protection
- The protection against output short-circuit
- Double overheating protection
- Over-current and over-voltage protection for wire feeder