

Panasonic

Bangkok Welding
(Thailand)

www.bangkokwelding.com

info@bangkokwelding.com

Digital CO₂/MAG Welding Machine

350/500RX

- Energy - saving
- Digital wave control
- Unitary adjusting
- High temperature resistance

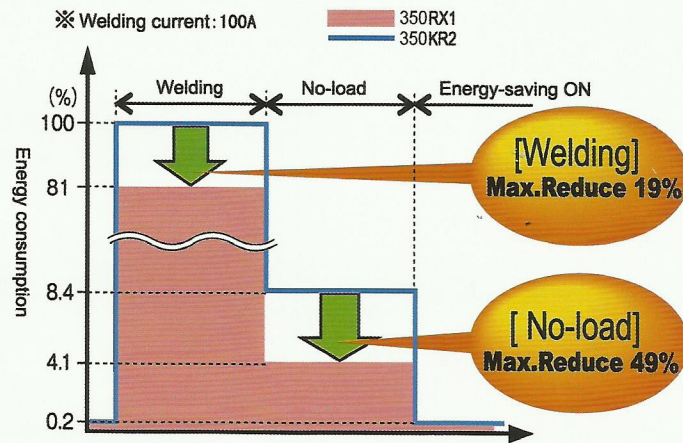


Panasonic pursues *Only one* in welding

A higher level energy-saving technologies

Integrate Panasonic advanced control technologies on energy-saving

● Compare the energy consumption with thyristor model



[WELDING]

- More energy-saving than thyristor model
- High speed CPU ensure more stable wire feed and intensive arc, thus improve the capability of energy-saving.

[NO-LOAD]

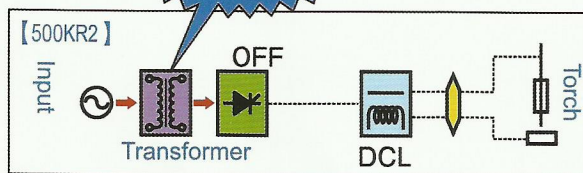
When welding end, the power supplied to the Trans.is cut, so it cost no energy in this status.

● [Energy-saving circuit is actived]

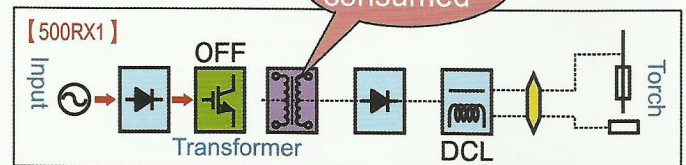
After 7 Minutes of the end of welding, energy-saving circuit is actived.

[No-load]

Consume energy

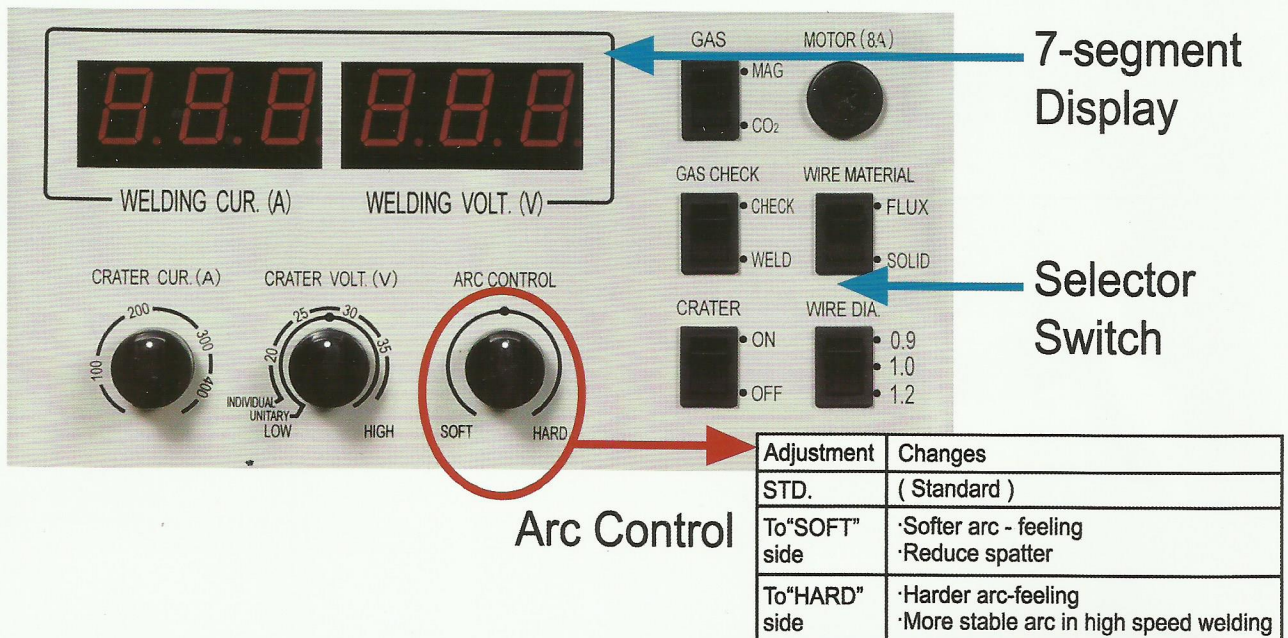


No energy is consumed



High reliability Lightweight Easy operation

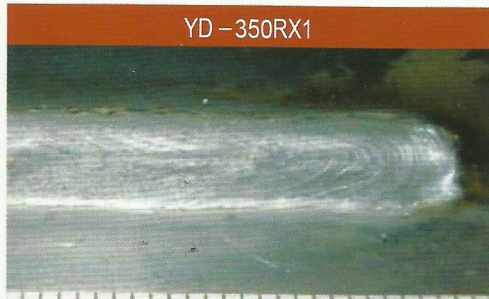
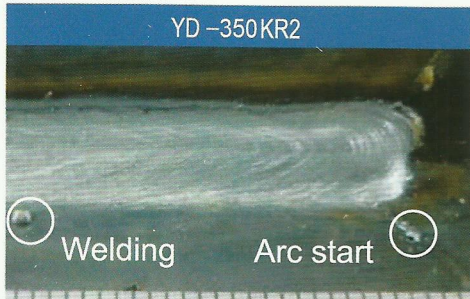
- Designed for high temperature and humidity resistance
Can work even under high ambient temperature of 50 degrees
- Inherited the features of easy operation



Easy to realize high quality welding

● Equipped with digital wave control

Advanced digital technology ensure perfect arc start and stable welding process



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

● Equipped with Unitary function

Welding voltage is set based on the welding current value automatically. The voltage can also be finely adjusted to fit the current best.



Remote controller (YW-35KB3)

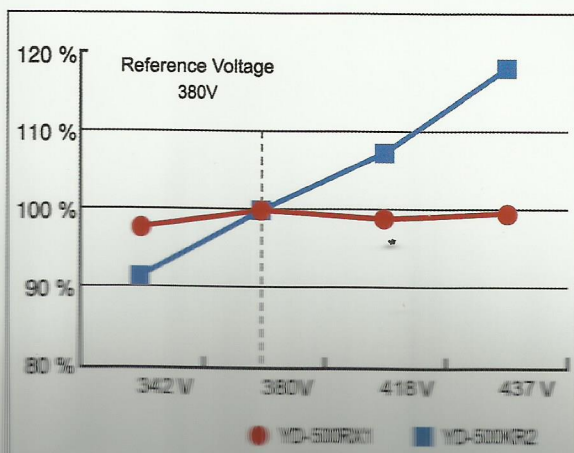
● Rich arc model can meet various kinds of requirements

Material	Gas	Dia	
		350RX	500RX
MS Solid	CO ₂	0.9	--
		1.0	1.0
		1.2	1.2
		--	1.6
	MAG	0.9	--
		1.0	1.0
		1.2	1.2
		--	1.6
MS FCW	CO ₂	1.2	1.2
		--	1.4

● Uniform and stable wire feed

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

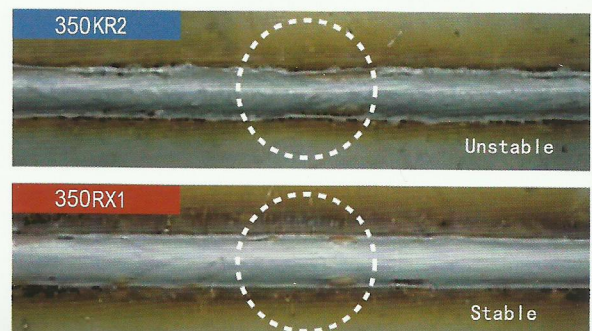
■ Input voltage and wire consumption



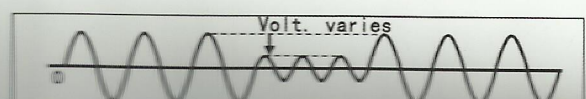
■ Welding seam comparison as the input voltage varying.

Welding current: 180A

Gas: MAG



Input voltage waveform



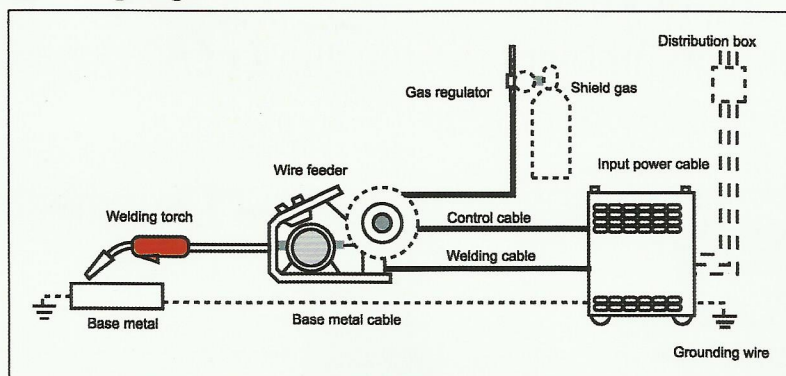
Rated Specifications

Power source		350RX		500RX	
Rated input voltage	V	380 AC	415 AC	380 AC	415 AC
Allowable fluctuation range	%	-20%-+15%	-20%-+10%	-20%-+15%	-20%-+10%
Rated frequency	Hz	50/60 (Common)		50/60 (Common)	
Number of phase		3-phase		3-phase	
Rated input	kVA	13.1		23.1	
	kW	12.6		22.2	
Maximum non-load voltage	V	DC 69		DC 70	
Rated output current	A	DC 350		DC 500	
Rated output voltage	V	DC 31.5		DC 39	
Output current adjustable range	A	DC 50-430		DC 60-550	
Output voltage adjustable range	V	DC 16.5-35.5		DC 17-41.5	
Rated duty cycle	%	60		100	
Power control method	—	IGBT inverter type		IGBT inverter type	
Applicable welding method	—	CO ₂ , MAG		CO ₂ , MAG	
Waveform control method	—	Digital control		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 (YD-350RXHJE) 0.9, 1.0, 1.2 (YD-350RXHJF)		1.0, 1.2, 1.6(YD-500RXHJE) 1.2, 1.4, 1.6(YD-500RXHJF)	
Applicable wire material (Note)	—	Mild steel (MS) Flux cored mild steel (MS-FCW)			
Input power terminal	—	Terminal block (for 3-phase, M5 bolting)			
Output terminal	—	Copper terminal with M8 bolting			
Dimension (Length x Width x Height)	mm	545×380×570		545×380×635	
Mass	kg	52		60	

(Note):

For the details, refer to section "Applicable arc characteristics table on the inside front cover.

Wiring diagram



Safety precautions

- Please instal this product in the room with no combustibel.
- Before attempting to use any welding product, always read the manual to ensure correct use.

Specifications

SPEC. No.		YW-35KB3	YW-50KB3
Rated welding current		350A	500A
Applicable wire	Diameter	ø0.8mm, ø1.2mm	ø1.2mm, ø1.6mm
	Material	Solid wire, Flux cored wire for mild steel	Solid wire, Flux cored wire for mild steel
Applicable spool	Shaft diameter	ø50mm	ø50mm
	Outer diameter	MAX. ø300mm	MAX. ø300mm
	Width	MAX. 105mm	MAX. 105mm
	Mass	20 kg	20 kg
Applicable gas	Kinds	CO ₂ , CO ₂ +Ar	CO ₂ , CO ₂ +Ar
	Pressure	MAX. 0.4MPa	MAX. 0.4MPa
Cable length [general]		1.8m (Gas hose 4.8m)	1.8m (Gas hose 4.8m)
Mass		10 kg	10.5 kg
Wire feed speed		5~20.1m/min	5.3~20.1m/min
Duty cycle		60%	60%

Welding Torch

Spec. No.		YT-35CS4	YT-50CS4
Duty cycle	10 min.cycle	350A,60%(CO ₂) 350A 35%(20%CO ₂ +80%Ar)	450A, 60% (CO ₂) 450A,35%(20%CO ₂ +80%Ar)
	Continuous	270A,100%(CO ₂) 200A 100%(20%CO ₂ +80%Ar)	350A, 100% (CO ₂) 270A,100% (20%CO ₂ +80%Ar)
Applicable wire Diameter		0.8, 0.9, 1.0, 1.2	1.0, 1.2, 1.4, 1.6
Cable length		3m	
Mass (including cable)		2.8 kg	3.6 kg

Gas Regulator

Spec. No.	YX-25CD1HAK
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Power Supply Equipment and Connecting Cables

	YD-350RX	YD-500RX
Input protective devices (Breaker, fuse etc.)	Type and capacity to be applied should conform to all national and local codes.	
Cable cross section area for input cable and ground wire	Type and capacity to be applied should conform to all national and local codes.	
Base metal cable	35mm ² or more	70mm ² or more
Grounding wire	8mm ² or more	10mm ² or more
Power distribution box	Install one distribution box each for this product	
Input power cable	8mm ² or more	10mm ² or more

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(Thailand)

www.bangkokwelding.com
info@bangkokwelding.com

Panasonic Welding Systems(Tangshan)Co.,Ltd.
Tel: (0315) 3206066-3206069 Fax: (0315) 3206018 3206070
Service hotline: (0315) 3206016 8008035816
Technique consulting: (0315)3206012
Website: http://pwst.panasonic.cn
E-mail:sales@tsmi.cn

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