

Panasonic
ideas for life

Digital CO₂/MAG Welding Machine

350/400RX

Bangkok Welding
(Thailand)

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

NEW

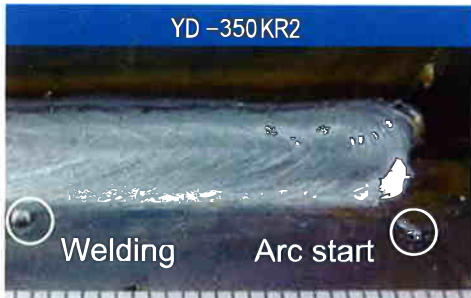


Panasonic pursues **Only one** in welding

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)

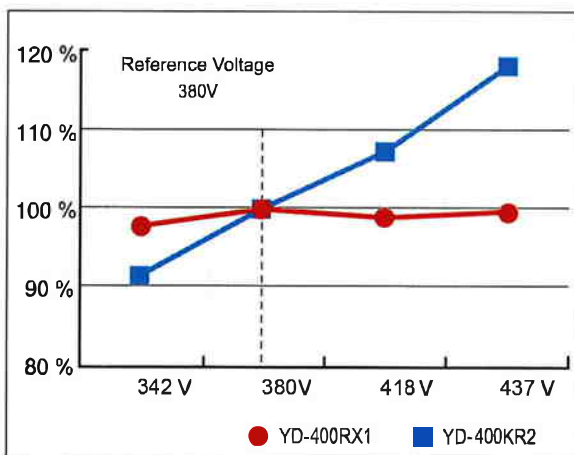
● Rich arc model can meet various kinds of requirements

Material	Gas	Dia.
MD Solid	CO ₂	0.9
		1.0
		1.2
	MAG	0.9
		1.0
MD flux-cored	CO ₂	1.2

● Uniform and stable wire feed

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

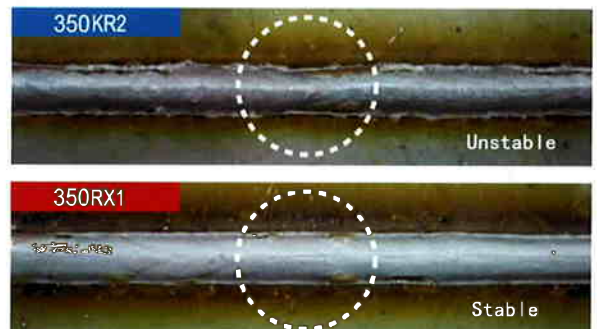
■ Input voltage and wire consumption



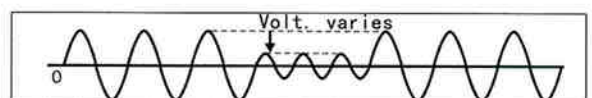
■ Welding seam comparison as the input voltage varying.

Welding current: 180A

Gas: MAG



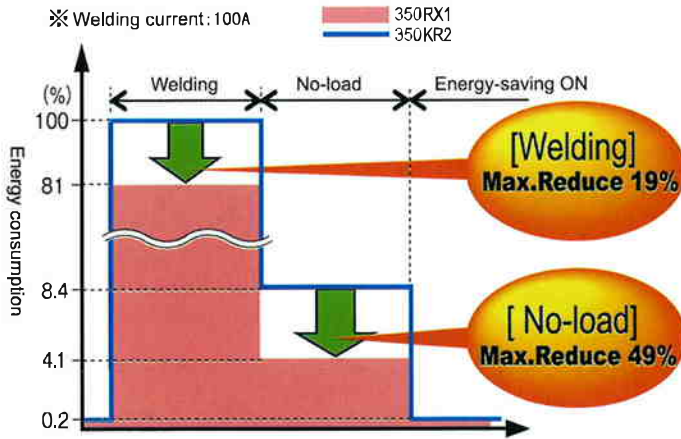
Input voltage waveform



A higher level energy-saving technologies

Integrate Panasonic advanced control technologies on energy-saving

- Compare the energy consumption with thyristor model



[WELDING]

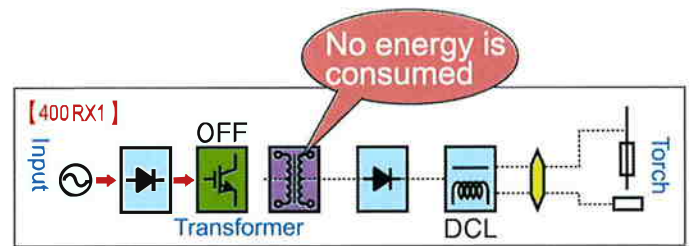
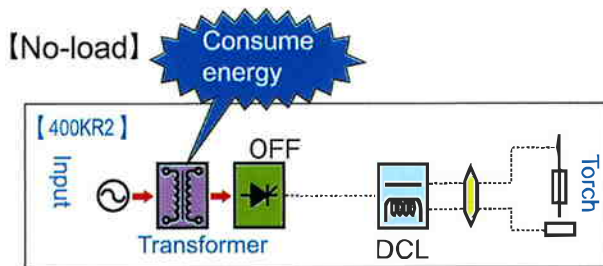
- More energy-saving than thyristor model
- High speed CPU ensure more stable wire feed and intensive arc, thus improve the capability of energy-saving.

[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 activated]

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



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

WELDING CUR. (A) WELDING VOLT. (V)

CRATER CUR. (A) CRATER VOLT. (V) ARC CONTROL

GAS MOTOR (8A)

• MAG • CO₂

GAS CHECK WIRE MATERIAL

• CHECK • FLUX

• WELD • SOLID

CRATER WIRE DIA.

• ON • 0.9

• OFF • 1.0

• 1.2

7-segment Display

Selector Switch

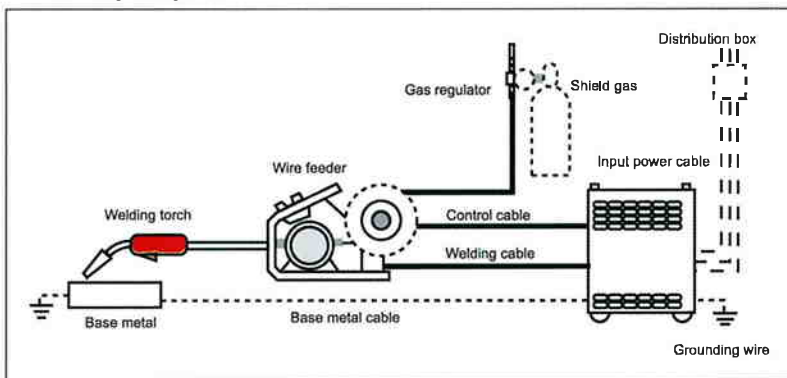
Adjustment	Changes
STD.	(Standard)
To "SOFT" side	· Softer arc - feeling · Reduce spatter
To "HARD" side	· Harder arc-feeling · More stable arc in high speed welding

Arc Control

Power Source Specifications

		YD-350RX1	YD-400RX1
Rated input voltage	V	380 AC (Allowable fluctuation range: -20% - +15%)	
Rated frequency	Hz	50/60 (Common)	
Number of phase		3-phase	
Rated input	kVA	13.1	16.2
	kW	12.6	15.6
Maximum no-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	0.9, 1.0, 1.2	
Applicable wire material	-	Mild steel (MS) Flux cored mild steel (MS-FCW)	
Gas purge time	-	1 second - 1 minute / continuous	
Pre-flow time	s	0.0 ~ 0.1 ~ 5.0	
After-flow time	s	0.0 ~ 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	

Wiring diagram



Safety precautions

● Before attempting to use any welding product, always read the manual to ensure correct use.

Wire Feeder

Spec. No.	YW - 35KB3	YW - 40KB3
Rated welding current	350A	400A
Applicable wire	Diameter	0.9mm, 1.2mm
	Material	Solid wire, Flux cored wire for mild steel
Cable length	1.8m (Gas hose 4.8m)	
Mass	10.5 kg	
Wire feed speed	5.3-20.1 m/min	
Duty cycle	60 %	

Welding Torch

Spec. No.	YT - 35CS4HAU	
Weld current	350A	
Duty Cycle	10 min.cycle	350A,60%(CO ₂) 350A 35%(20%CO ₂ +80%Ar)
	Continuous	270A,100%(CO ₂) 200A,100%(20%CO ₂ +80%Ar)
Applicable Wire Diameter	0.9mm,(1.0mm),1.2mm	
Cable Length	3m	
Mass (Including cable)	2.8kg	

Gas Regulator

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

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	35 mm ² or more (YD-350RX1) 50 mm ² or more (YD-400RX1)
Grounding wire	14 mm ² or more
Power distribution box	Install one distribution box each for this product
Input power cable	8 mm ² or more (Grounding wire: 8 mm ² or more)

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