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RX1 Series

"On Demand" Arc Length Control Software for Spatter Free Optimum Weld Bead.

The World's Most Preferred and Reliable
Digital + Inverter IGBT - Controlled MIG/MAG Welding Machine

Remote Management System
for Setting and Locking
Welding Parameters

World-Class Welding Quality at Your Doorstep

- Panasonic Welding Systems India has set-up its state-of-the-art manufacturing facility in Jhajjar, Haryana, India. So our globally proven range of welding equipment including MMAW, MIG/MAG, TIG, Plasma Cutting, Welding Accessories and Welding Robots are now available at your doorstep.
- Assured commitment to long-term product support in terms of Sales, Service and Spares.
- All-India Sales and Service network.

Key Features of RX1 Series

- Inverter-based digital wave control GMAW and FCAW welding outfit.
- Higher efficiency and higher power factor results in greater power saving.
- Designed to work even under high ambient temperatures up to 50°C.
- Lightweight and compact MIG/MAG/FCAW welding outfit.
- Unique design of three layer and four room dust-free structure.
- RX1 Series is manufactured as per Std. IEC 60974-1:2000/GB 15579.1:2004.
- Fresh tip treatment and burn-back time control are adjustable.
- Works on 50/60 Hz frequency in power supply.
- Equipped with Synergic Mode (Unitary Function) in which welding voltage is set based on the welding current value automatically. The voltage can be adjusted finely to fit the best current values.
- Digitally controlled waveform enables superior arc characteristics.

Important Safety Features

- Over-voltage and under-voltage protection.
- Overheating protection.
- Single-phasing protection.
- Protective 8 Amps fuse for protection of wire feed motor.

RoHS
Restriction of Hazardous Substances

www.panasonic.com/in/welding

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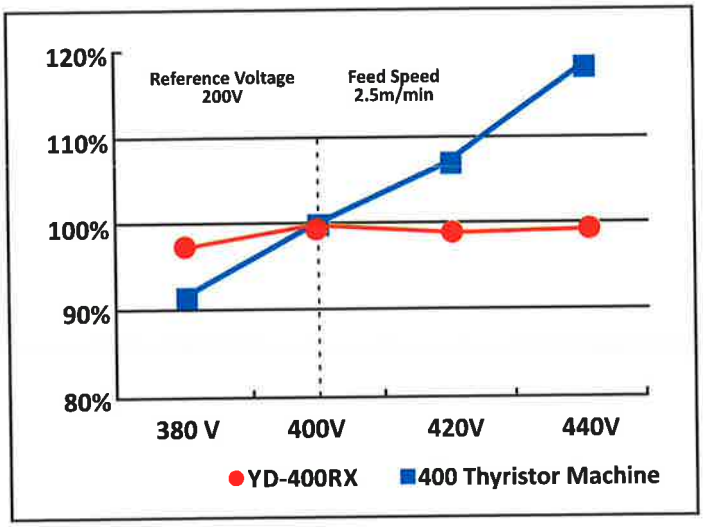
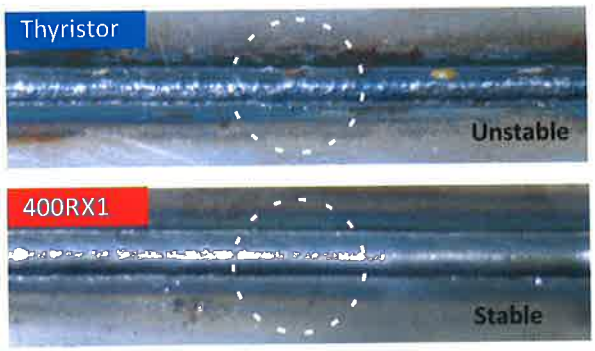
The Digital Inverter Advantage

High Quality Welding

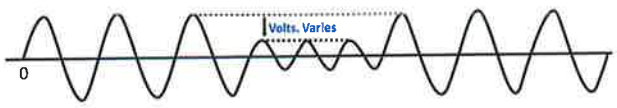


Input voltage and wire consumption

The wire feed remains constant over a wide range of input voltage variations resulting in higher quality of welding.



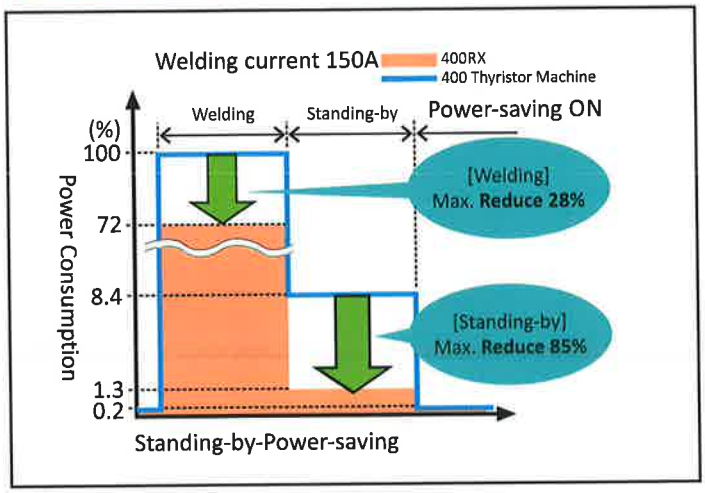
Welding seam comparison as input voltage varies



Input voltage waveform

The welding seam is more uniform as compared to thyristor-controlled welding even during variation of input voltage.

Higher Energy Savings



During Welding

- More energy saving than conventional machines.
- High-speed CPU ensure more stable wire feed & intensive arc, thus improves the capability of energy saving.

At No-load

- When welding stops, the power supplied to the transformer is cut, so it costs no energy at no load state.
- Energy-saving circuit is activated 7 minutes after the end of welding.

Ideal for Diverse Industries

- **Automotive**
- **Shipbuilding & Offshore**
- **Heavy Construction Equipment**
- **Railways**
- **Repair & Maintenance**
- **General Fabrication**
- **Civil/Project Construction**
- **Process Industry**

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High Reliability and Easy Operation

- Designed for high temperature and humidity resistance.
- Can work even under high ambient temperature of 50°C.
- Extremely easy operation.

Indicative panel is of 400RX1 Model

Other Significant Features

- Digital display of current and voltage control.
- Equipped with Synergic mode (Unitary function) in which welding voltage is set based on the welding current value automatically. The voltage can be adjusted finely to fit the best current values.
- Low power consumption than conventional machines.
- Power factor > 0.9
- Crater voltage and crater current adjustment through front panel.
- Arc force adjustment for better arc characteristics.
- Digitally controlled waveform enables superior arc characteristics.
- Gas check, wire diameter selection and gas selection switch on the front panel.

Wire Feeder and Torch Features

- Printed circuit wire feeder motor for better resolution and accuracy
- Cable-less remote controller mounted on wire feeder as well as lightweight cables enable better mobility.
- Maximum wire feed speed up to 20.1 m/min.
- Standard 2-Roll Drive and optional 4-Roll Drive available.
- Ergonomically designed MIG torches reduces fatigue.
- Lightweight, durable and long lasting.

Remote Management Controller (Optional)

With this device these parameters can be set :

- Limit welding current
- Set users' password
- Lock welding parameters
- Display wire feed speed
- Set gas pre-flow and post-flow time
- Set Burnback time
- Penetration depth control
- Recalibrate current and voltage meter

Euro Connector MIG Torch Available

- High Performance Euro Connector MIG Torch also available on demand.

Wire Feeder Available in Various Lengths

- Wire feeder available in standard lenghts of 1.8 mtrs, 5 mtrs, 10 mtrs, 15 mtrs and 20 mtrs.

Technical Specifications

Technical Specifications	Unit	YD-350RX1xxx			YD-400RX1xxx			YD-500RX1xxx	
		DG1	DG2	DJ1	DG1	DG2	DJ1	DG2	DJ2
INPUT									
Input Supply									
Voltage	Volts.	380, -20%, +10%		415, -20%, +10%	380, -20%, +10%		415, -20%, +10%	380, -20%, +10%	415, -20%, +10%
Phase/Freq.	No./Hz	3ph/50-60			3ph/50-60			3ph/50-60	
Max. Input KVA									
@60% Duty Cycle	KVA/KW	13.1/12.6			16.2/15.6				
@100% Duty Cycle	KVA/KW							23.1/22.2	
OUTPUT									
Rated Current Range	Amps	50-430			50-430			60-550	
Rated Output Range	Volts	16.5-35.5			16.5-35.5			17-41.5	
Welding Current (40 °C)									
@60% Duty Cycle	Amps	350			400				
@100% Duty Cycle	Amps	270			310			500	
GENERAL									
Power Control Method		IGBT Inverter Controlled			IGBT Inverter Controlled			IGBT Inverter Controlled	
Digital Display		4 Digit-7 segment LED Display			4 Digit-7 Segment LED Display			4 Digit-7 Segment LED Display	
Wave from Control		Digitally Controlled Waveform			Digitally Controlled Waveform			Digitally Controlled Waveform	
Welding Sequence		a. Main welding b. Main welding-crater (Crater repeat is available) c. Main welding-crater (Crater repeat is available)			a. Main welding b. Main welding-crater (Crater repeat is available) c. Main welding-crater (Crater repeat is available)			a. Main Welding b. Main welding-crater (Crater repeat is available) c. Main welding-crater (Crater repeat is available)	
Wire Diameter Selector Switch	mm	0.8,1.0,1.2	0.8,0.9,1.2	0.8,1.0,1.2	0.8,1.0,1.2	0.8,0.9,1.2	0.8,1.0,1.2	1.2,1.4,1.6	
Ingress Protection	Class	IP 23			IP 23			IP 23	
Insulation	Type	H			H			H	
Cooling		Forced air cooling			Forced air cooling			Forced air Cooling	
Power Factor		> 0.9			> 0.9			> 0.9	
Operating Temperature	Degree C	-10 to 50			-10 to 50			-10 to 50	
Applicable Wire Diameter	mm	0.8, 1.0, 1.2			0.8, 1.0, 1.2			1.0, 1.2, 1.6	
Dimensions (LxBxH)	mm	545x380x570			545x380x570			545x380x635	
Weight	Kg	52			52			60	
WIRE FEEDER		**(YW-35KB3xxx)**			**(YW-40KB3xxx)**			**(YW-50KB3DR0)**	
		DAE	DA1	DAE	DAE	DA1	DAE		
Rated Welding Current	Amps	400			400			500	
Applicable wire diameter	mm	1.0, 1.2	0.9, 1.2	1.0, 1.2	1.0, 1.2	0.9, 1.2	1.0, 1.2	1.2, 1.6	
Cable Length	Meter	1.8 m (gas hose 4.8m)			1.8 m (gas hose 4.8m)			1.8 m (gas hose 4.8m)	
Weight	Kg	10.5			10.5			10.5	
Wire Feed Speed	Meter/ Minute	5.3-20.1			5.3-20.1			5.3-20.1	
Duty Cycle	%	60			60			60	
Wire feeder available in standard lenghts of 1.8 mtrs, 5 mtrs, 10 mtrs, 15 mtrs and 20 mtrs.									
WELDING TORCH									
Rated welding current	Amps	350			400			500	
Duty Cycle	10 Min. Cycle	350 Amps, 60% (CO_2)			350 Amps, 60% (CO_2)			500 Amps, 60% (CO_2)	
		350 Amps, 35% (20%CO_2 + 80% Ar)			400 Amps, 25% (20%CO_2 + 80% Ar)			500 Amps, 25% (20%CO_2 + 80% Ar)	
	Continuous	270 Amps, 100% (CO_2)			270 Amps, 100% (CO_2)			350 Amps, 100% (CO_2)	
		200 Amps, 100% (20%CO_2 + 80%Ar)			200 Amps, 100% (20%CO_2 + 80% Ar)			270 Amps, 100% (20%CO_2 + 80% Ar)	
Applicable Wire Diameter	mm	0.8, 0.9, 1.0, 1.2			0.8, 0.9, 1.0, 1.2			0.8, 1.2, 1.6	
Cable Length	Meter	3			3			3	
Weight (Incl. Cable)	Kg	2.8			2.8			3.6	
Ordering Information	**Model No.**	**YD-350RX1**			**YD-400RX1**			**YD-500RX1**	
Power Source	-	DG1	DG2	DJ1	DG1	DG2	DJ1	DG2	DJ2
Wire Feeder	-	YW-35KB3DAE	YW-35KB3DA1	YW35KB3DAE	YW-40KB3DAE	YW-40KB3DA1	YW40KB3DAE	YW-50KB3DR0	
Welding Torch	-	YT-35CS4DA1			YT-40CS4DAF			YT-50CS4DAF	
Remote Management Controller	-	TSMYU290							
Application Country (A) - Indonesia / Vietnam / (B) - Thailand / (C) - Malaysia		(A)	(B)	(C)	(A)	(B)	(C)	(A) & (B)	(C)

Panasonic reserves the right to alter the specifications without notice.

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Range of Welding Equipment: MMAW | MIG/MAG | TIG | Plasma Cutting | Welding Accessories | Welding Robots

Panasonic has set-up its own state-of-the-art welding equipment manufacturing facility at Jhajjar near Gurgaon, Haryana, India.

Factory, Head Office and Northern Regional Office
Village Bid Dadri, Tehsil and District: Jhajjar - 124103, Haryana, India
Email: welding.north@in.panasonic.com

Japan Factory: 1-1, 3-chome, Inazu-cho, Toyonaka, Osaka 561 0854, Japan
China Factory: No. 9 Qingnan Rd, Tangshan New & Hi-tech Industrial Park, Hebei, China

Authorised Sales & Service Provider

PWSI / RX1 / 0318 / EXPORT