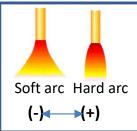
Panasonic

YD-400RY1

Inverter IGBT-Controlled CO₂/MAG Welding Machine



- Upgraded model
- The Successor to the RX1 series
- MS+SS welding software
- Dynamic Arc Characteristics Soft arc for thin metal and Hard arc for thick metal



World-Class Welding Quality at Your Doorstep



- Panasonic Smart Factory Solutions 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.

Processes

- Mild steel(MS) MIG/MAG
- Fluxcored Mild steel(MS-FCAW)
- Stainless steel(SS) MIG/MAG
- Flux cored Stainless steel(SuS-FCAW).

Important Safety Features

- Over-voltage and under-voltage protection
- Overheating protection
- Single-phasing protection
- Protective 8 Amp fuse for protection of Wire feed motor



		Specifications table					
Power Source							
Item	Unit	YD-400RY1DJK	YD-400RY1DJF				
Control method	-	Inverter IGBT-Control	led CO2/MAG Welding				
Rated input/No. of phases	-	3-phase AC 415 V , -20% , +10%					
Input power frequency	Hz	50/60					
Rated input capacity	KVA/KW	18.7/16.2	16.2/15.6				
Output characteristics	-	CV (Constant volt	CV (Constant voltage characteristics)				
Maximum no-load voltage	Volt	DC	DC 69				
Rated output current	Amp	DC	DC 400				
Rated output voltage	Volt	DC	DC 34				
Output current adjustable	Amp	DC 5	DC 50-430				
Output voltage adjustable	Volt	DC 16	DC 16.5-35.5				
Rated duty cycle	%	ł	60				
Applicable welding method		CO2,M	CO2,MAG,MIG				
Waveform control method	-	Digital	Digital control				
		CO2 welding CO2:100%					
Applicable shielding gas	-	MAG welding Ar-CO2 mixture					
		MIG welding Ar-O ₂ mixture					
Applicable wire size (dia)	mm	0.8,1.0,1.2					
		Mild steel(MS)					
		Flux cored mild steel(MS-FCAW)					
Applicable wire material	-	Stainless steel(SS)					
		Flux cored stainless steel(SUS-FCAW)					
Pre-flow time	sec		0.1				
Post-flow time	sec	0.4					
Input power terminal	-	Terminal block (for 3-phase ,M5 bolting					
Output terminal	-	Copper terminal with M10 bolting					
Dimension(LxWxH)	mm	570x385x555					
Ingress Protection	-	IP23					
Additional IGBT Protection	-	Yes	Yes No				
Weight	Кд	56.5	53.5				

Wire feeder				
Item	Unit	YW-40KB3DAL		
Rated welding current	Amp	400		
Applicable wire dia	mm	0.8,1.0,1.2		
Cable length	metre	1.8 metre(Standard); 5 metre, 10 metre ,15 metre (Optional)		
Weight	Kg	10		
Wire feed speed range	metre/min	5-20.1		
Duty cycle	%	60		
Welding wire type	-	Mild steel solid core and flux cored wire ; stainless steel solid and flux cored welding wire		
Drive method	-	2-Roll drive		
Welding torch				
Item	Unit	YT-40CS4DAF		
Rated welding current	Amp	350 A@60% duty cycle (CO2)		
		350 A@35% duty cycle (Ar-CO2)		
Applicable wire diameter	mm	0.8,1.0,1.2		
Cable length	metre	3		
Cooling	-	Air cooled		
Mass (including cable)	Kg	2.8		

Truly 310 Amp@100% duty cycle

Other 400 amps machine is usually of lower duty cycle and hence 0.80 mm wire runs smoothly but 1.20 mm wire is an issue

Wire Dia(mm)	Min. Current (Amp)	Max. Current (Amp)	1. No voltage and st 2. Feeding ok with (1.20 mm This is due to soft
0.80	50	180	
1.00	80	230	
1.20	120	280	Truly 310 amp@100% machine Rating :
1.60	200	400	400A@60% Duty Cycle 1.20 mm wire can be used eas
2.40	400	600	

No Torch Switch error in frequent On/Off

In case of frequent switch on/off ,following is a significant error in other torches

- ge and still wire coming out 4 NI 1+
- ok with 0.80 mm but not ok with

le to software issue



No issue with Torch Switch even in frequent On/Off

Recommended parameters Amp vs wire dia

Parameter locking with Remote Management Controller (RMC)



RMC

Remote Management Controller With RMC these parameters can be set:

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

Advantages –

Lock welding parameters so that welding quality should not be compromised ,often operators increase current beyond recommended level to earn more incentives and affecting welding quality.

Other significant features

- Digital display of Current and Voltage control
- Synergic mode (Unitary function) available
- Power factor >0.9
- Crater voltage and crater current adjustment through front panel
- Digitally controlled waveform enables superior arc characteristics
- Gas check, Wire diameter selection and Gas selection switch on the front panel
- Arc force adjustment for better arc characteristics

Field Tip Treatment(FTT)

Suppresses the growth of the ball produced at tip of the wire upon completion of welding Advantages –



- 1. Enhances weld quality
- 2. Enhances productive time of operator

Wire Feeder & 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
- Standard 2-Roll Drive and optional 4-Roll Drive available
- Wire Feeder available in standard lengths of 1.8 metre. On demand available in 5 metres, 10 metres, 15 metres and 20 metres.
- Ergonomically designed MIG torches reduce fatigue
- Lightweight ,durable and long lasting torch
- High performance Euro connector MIG Torches also available on demand

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For more information please write to: Psfsin.enquiry@in.Panasonic.com Panasonic Life Solutions India Pvt Ltd. (Division Company :Panasonic Smart Factory Solutions India) Factory: Bid Dadri ,Tehsil and District : Jhajjar124103,Haryana, Head Office: 12th Floor, Ambience Tower I , Ambience Island NH-8,Gurgaon ,Haryana <u>Website:</u> https://www.panasonic.com/in/business/introduction.html