

DC ARC

400AT3DJR/DJG/DJE

IGBT Inverter controlled DC Arc Welding System



Key Features

- Suitable for all kind of acid, basic stainless steel, cellulosic and low hydrogen alloy electrodes.
- High ambient temperature resistance up to 50°C for 400AT3.
- Unique design of three layer and four room dust-free structure.
- Voltage Reduction Device (VRD) <13 V DC.

Technical Specifications

Technical parameter	Units	400AT3DJR/DJG/DJE
Control method	-	IGBT Control
Rated Input/No. of phases	-	3-phase AC 415V, +/-20%
Rated power frequency	Hz	50/60
Rated input capacity	KVA/KW	17.6/16.7
Rated output current	A	400
Rated duty cycle	%	60
Rated output no-load voltage	V	DC 63
Output current range	A	DC 20-410
Voltage Reduction Device(VRD)	Volt	<13VDC
Welding method	-	MMA
Weight	Kg	43

630AT3DJE

Heavy duty 630 Amps IGBT based Power Source for MMA Welding cum Air Carbon Arc Gouging



Key Features

- Stick(MMA)/Air Carbon Arc Gouging.
- Adjustable arc force control for increasing penetration and also prevent the electrode from sticking to base metal.
- Over-voltage and under-voltage protection available to protect the machine from large variations in input voltage.
- Over heating protection to protect the machine from abnormal temperature rise.

Technical Specifications

Technical parameter	Units	630AT3DJE
Control method	-	IGBT Control
Rated Input/No. of phases	-	3-phase 415V, +/-20%, +15%
Rated power frequency	Hz	50/60
Rated input capacity	KVA/KW	32.2/30.8
Rated output current	A	630
Rated duty cycle	%	60
Rated output no-load voltage	V	DC 75
Output current range	A	DC 50-60
Applicable Electrode Dia (MMA)	mm	2.5 to 6.4
Applicable Electrode Dia(Gouging)	mm	3.2 to 9.5
Weight	Kg	70

TIG-DC-AC/DC

350/500WX5

Full Digital Pulse AC/DC TIG Welding Machine



Key Features

- AC balance control-cleaning width adjustment
- AC balance control-bias current adjustment
- AC balance control-AC frequency adjustment
- AC standard TIG mode
- Mixed TIG mode / Pulse control

Technical Specifications

Technical parameter	Units	350WX5	500WX5
Control method	-	Digital IGBT control	
Rated Input/No. of phases	-	3-phase AC 380V	
Rated power frequency	Hz	50/60	
Rated input capacity	KVA/KW	16.6/13.5	29.5/22.5
Rated output current	A	TIG: 350 Stick: 300	TIG: 500 Stick: 400
Rated duty cycle	%	35	60
Rated output no-load voltage	V	DC 62	DC 70
Output current range	A	DC TIG: 4-350 AC TIG: 10-350 Stick 10-300	DC TIG: 5-500 AC TIG: 20-500 Stick 20-400
Pulse frequency	Hz	0.1-500	
AC frequency(AC TIG)	Hz	30-100 (factory setting 70)	
Welding method	-	MIG Aluminum	
Memory	-	100 channels for storing and recalling	
Weight	Kg	74	128

60/100PF

Full Digital Controlled Plasma Cutting Machine



Key Features

- The new-type cutting torch powered by full digital machine offers high-level of cutting solution.
- Easy-to-operate "Cutting Navigation Function".
- Air pressure monitoring function equipped.
- Abundant Cutting Functions for Different Applications- Cutting coated steel plate, Pulse Cutting, Piercing.

Technical Specifications

Technical parameter	Units	YP-060PF3	YP-100PF3
Rated Input	Volts	415, +/-20%	
Phase/Frequency	No./Hz	3 phase / 50-60	
Rated Input	KVA/KW	9.81/7.27	17.67/13.87
Rated output voltage	Volts.	104	120
Rated output current	Amps	60	100
Rated duty cycle	%	100	60
Output current range	Amps	15-60	15-100
Cutting thickness (SuS)	mm	35	40
Ingress protection	Class	IP21S	
Insulation	Class	H	
Weight	Kg	43	48

TIG-DC-AC/DC

400TX3DJE

IGBT Controlled DC Pulse TIG Welding Machine



Key Features

- Stable current output event at 4 Amps-Sheet thickness even 0.5 mm weldable without burn through.
- Pulse frequency up to 500 Hz: Useful when welding next to an edge or corner.
- Digital display or Current and Voltage both (with a change over switch).

Technical Specifications

Technical parameter	Units	400TX3DJE
Control method	-	IGBT Control
Rated Input/No. of phases	-	3-phase 415V, +/-20%
Rated power frequency	Hz	50/60
Rated input capacity	KVA/KW	14.5/12.4
Rated output current	A	400
Rated duty cycle	%	60
Rated output no-load voltage	V	Anti-electric shock (On): 13, (Off): 73
Output current range-TIG	A	DC 4-400
Output current range-MMA	A	DC 20-400
Pulse frequency-Low frequency	Hz	0.5-30
Pulse frequency-Mid frequency	Hz	10-500
Upslope time	s	0 or 0.1-5
Downslope time	s	0 or 0.2-10
Weight	Kg	43

Note: Remote compatible model: 400TX3DJR

400AT3DJT

IGBT Controlled DC TIG Welding System



Key Features

- More consistent arc start with high reliability.
- High - frequency (HF) arc start for non-contact arc initiation.
- Adjustable current downslope time.

Technical Specifications

Technical parameter	Units	400AT3DJT
Rated input voltage	Volts.	415, +/-20%
Phase/Freq.	No./Hz	3 Ph. / 50-60
Input KVA@60% duty cycle	KVA/KW	17.60/16.7
Rated Output Current	Amps	20-410
Rated Duty Cycle	%	60
Ingress Protection	Class	IP23
Insulation	Class	H
Weight	Kg.	45

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.
- All-India Sales and Service network.



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 Gurugram, Haryana, India.

PANASONIC LIFE SOLUTIONS INDIA PVT. LTD.

(Division Company: Panasonic Smart Factory Solutions India)

Head Office: 12th Floor, Ambience Tower, Ambience Island, NH-8, Gurugram - 122002, Haryana, India.
Phone: +91-124-4871300

Factory: Village Bid Dabri, Tehsil and District: Jhajjar - 124103, Haryana, India.

Eastern Regional Office: Acropolis Mall, 8/6, Plot No. 1858, 8th Floor, Rajdanga Main Road, Opp. Kasba New Market, Kolkata - 700016, West Bengal.

Western Regional Office: 5th Floor, Unit No. 502 & 503, Windfall Building, Sahar Plaza Complex, Survey No. 179A to 179H, J. B. Nagar, Andheri East, Mumbai - 400058, Maharashtra.

Southern Regional Office: 66th Floor, Polyhose Towers, No. 86, Anna Salai, Guidy, Chennai-600032, Tamil Nadu

Central Regional Office: Ayodhya, 119, 2nd Floor, Bajaj Nagar, Nagpur - 440010, Maharashtra.

Sales Offices at Ahmedabad, Bengaluru, Bhubaneswar, Mumbai and Hyderabad.

For more information and service related queries please write to: Psfins.enquiry@in.panasonic.com

Authorised Sales & Service Provider



+91-9729900200

PSFSIN / COMP / 022023

Panasonic

The World's Most Preferred and Reliable Welding Systems

WELDING SYSTEMS

PRODUCTS AT A GLANCE



RoHS

Restriction of Hazardous Substances

www.panasonic.com/in/business/introduction.html

MMAW | MIG/MAG | TIG
Plasma Cutting | Robot Systems

Panasonic reserves the right to alter the specifications without notice.

ARC WELDING ROBOTS (06 Axis Articulated)

Towers: Robotic Systems with Integrated Welding Power Source Technology



The Arc Welding Robot System TAWERS



TAWERS

- MTS-CO₂
- SP-MAG II
- Normal Pulse
- Lift Start
- HD-Pulse

ACTIVE TAWERS

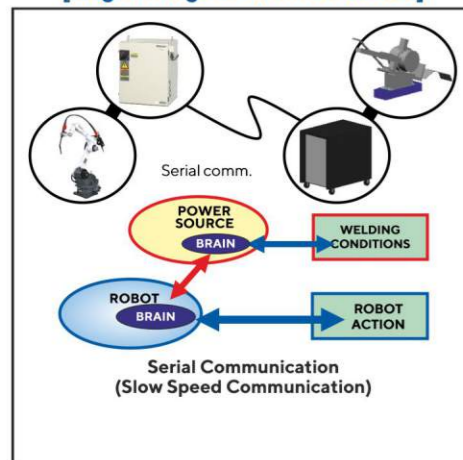
- MTS-CO₂
- SP-MAG II
- Normal Pulse
- Lift Start
- HD-Pulse
- ACTIVE CO₂
- ACTIVE MAG
- ACTIVE Start

SUPER ACTIVE TAWERS

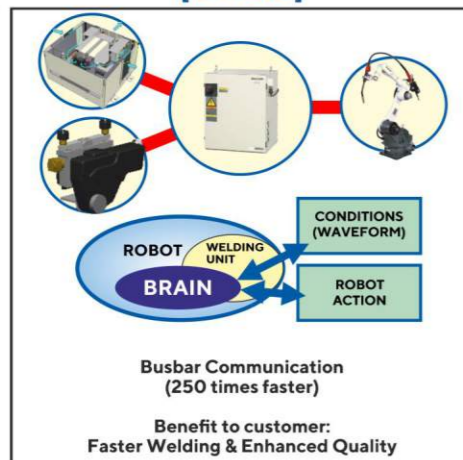
- MTS-CO₂
- SP-MAG II
- Normal Pulse
- Lift Start
- HD-Pulse
- ACTIVE CO₂
- ACTIVE MAG
- ACTIVE Start
- HBC
- High Speed Welding
- Extremely Low Spatter

FUSION TECHNOLOGY

[Regular digital communication]

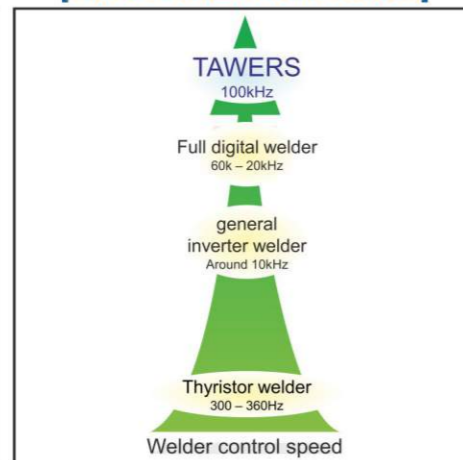


[TAWERS]



PRECISE WAVEFORM CONTROL

[World's Fastest Inverter Circuit]



Manipulator Specifications

Model	TM-1400	TM-1800	TM-2000
Structure	6 Axis articulated		
Payload	6 Kg		
Maximum Reach	1437 mm	1809 mm	2011 mm
Minimum Reach	404 mm	430 mm	550 mm
Working Range	1033 mm	1379 mm	1461 mm
Max. Motion Speed	RT (Rotating trunk)	225°/s	225°/s
	UA (Upper Arm)	225°/s	225°/s
	FA (Forearm)	225°/s	225°/s
	RW (Rotating Wrist)	425°/s	425°/s
	BW (Bending Wrist)	425°/s	425°/s
Weight	170 Kg	215 Kg	217 Kg

Controller/Welder Specifications

Model	WG III (Towers)	WGH III (High Power Towers)
Memory capacity	40000 points	
Position Control	Software servo control	
External Memory	Teach Pendant: one SD memory card slot, two USB 2.0 ports (USB 2.0, Hi-Speed not supported)	
Control Axes	6 axes simultaneously (Max. 27 axes)	
Input and Output	Input : 40 points (Optionally expandable up to 2048 points) Output: 40 points (Optionally expandable up to 2028 points)	
Input Power	3 phase, 200 V AC±20 V AC, 22 KVA, 50/60 Hz	3 phase, 200 V AC± 20 V AC, 30.5 KVA, 50/60 Hz
Welding Process	CO ₂ /MAG/Stainless Steel MIG/Pulse MAG/Stainless pulse MIG	
Output Current Range	30 to 350 A DC	30 to 450 A DC
Output Voltage Range	12 to 36 V DC	12 to 42 V DC
Duty Cycle	CV : 80%@350A Pulse: 60%@350A	100%
Dimensions	553mmx550mmx1181 mm(WDH)	553mmx550mmx1407 mm(WDH)
Weight	135 kg	171 Kg

MIG-MAG-FCAW

350/500GL5

Pulse Full Digital Inverter MIG/MAG Welding System



Key Features

- Root welding control technology.
- 4-Roll 2 Drive wire feeder.
- Wire feeder with digital display of Amp/Volt.
- Self adjustment of arc length even when changing wire extension length supports to achieve excellent weld bead.
- HL-Pulse (Dual Pulse) / MUP (Mix up pulse) / S- Pulse (SUS Pulse)

Technical Specifications

Technical parameter	Units	350GL5	500GL5
Control method	-	Digital IGBT control	
Rated Input/No. of phases	-	3-phase AC 415V, -27%, +10% (304V-456V)	
Rated power frequency	Hz	50/60	
Rated input capacity	KVA/KW	17.6/13.5	29.9/23.9
Rated output current	A	Pulse OFF: DC 350 Pulse ON: DC 350	Pulse OFF: DC 500 Pulse ON: DC 400
Rated duty cycle	%	60	60
Rated output no-load voltage	V	DC 80	DC 80
Output current range	A	Pulse OFF: DC 40-430 Pulse ON: DC 40-350	Pulse OFF: DC 60-500 Pulse ON: DC 60-400
Welding method	-	CO ₂ /MAG/Stainless steel MIG	
Memory	-	100-channels welding parameter storage	
Weight	Kg	68	75

400RY1

IGBT based MIG/MAG Welding Machine



Key Features

- The Successor to the RX1 series.
- MS+SS welding software.
- Dynamic Arc Characteristics – Soft arc for thin metal and Hard arc for thick metal.
- Power factor >0.9.
- Digitally controlled waveform enables superior arc characteristics.
- Gas check, Wire diameter selection and Gas selection switch on the front panel.

Technical Specifications

Technical parameter	Units	400RY1DJK
Control method	-	Digital IGBT Control
Rated Input/No. of phases	-	3-phase AC 415 V, -20%, +10%
Rated power frequency	Hz	50/60
Rated input capacity	KVA/KW	18.7/16.2
Output characteristics	-	CV (Constant voltage characteristics)
Rated output current	Amp	DC 400
Output current adjustable range	Amp	DC 50-430
Rated duty cycle	%	60
Applicable welding method	-	CO ₂ , MAG, MIG
Applicable wire size (dia)	mm	0.8, 1.0, 1.2
Weight	Kg	56.5

RX1 Series

IGBT Digital Inverter-controlled MIG/MAG Welding System with remote management controller



Key Features

- Inverter based digital wave control GMAW & FCAW welding outfit.
- Higher Efficiency & higher Power factor results in greater power saving.
- Designed to work even under high ambient temperature of 50°C.
- Unique design of three layer & four cabinet dust free structure.
- Parameter Locking is possible.
- Fresh tip treatment & burn back time control are adjustable.
- Welding base metals-Mild steel, Medium/High carbon steel, Low alloy steel.

Technical Specifications

Technical parameter	Units	250RX1	400RX1	500RX1
Rated input voltage	Volts.	415, +15%, -20%	415, +10%, -12%	
Phase/Freq.	No./Hz	3ph/50-60		
Input Power@60% duty cycle	KVA/KW	8/7.7	16.2/15.6	-
Input Power@100% duty cycle	KVA/KW	-	-	23.1/22.2
Rated Current Range	Amps	50-250	50-430	60-550
Rated Output Range	Volts	12-33	16.5-35.5	17-41.5
Duty Cycle	%	60	60	100
Insulation	Class	H Class		
Weight	Kg	44	52	60

350/500GR5

Full Digital Inverter MIG/MAG Welding System



Key Features

- Root welding control technology.
- Short circuit transfer, stable arc, low heat input, suitable for thin plate gap welding.
- Full range of welding wire: 0.6mm to 1.6mm.
- 4-Roll 2 Drive wire feeder.
- Wire feeder with digital display of Amp/Volt.
- Self adjustment of arc length even when changing wire extension length supports to achieve excellent weld bead.

Technical Specifications

Technical parameter	Units	350GR5	500GR5
Control method	-	Digital IGBT control	
Rated Input/No. of phases	-	3-phase AC 415V, -27%, +10% (304V-456V)	
Rated power frequency	Hz	50/60	
Rated input capacity	KVA/KW	17.6/13.5	29.9/23.9
Rated output current	A	DC350	DC500
Rated duty cycle	%	60	100
Rated output no-load voltage	V	DC 80	DC 80
Output current range	A	DC 40-30	DC 60-500
Welding method	-	CO ₂ /MAG/Stainless steel MIG	
Memory	-	100-channels welding parameter storage	
Weight	Kg	68	110

MIG-MAG-FCAW

KR2 Series

Fully Thyristorised MIG/MAG Welding System



Key Features

- Synergic Mode (Unified Mode) is available for easy setting of current and voltage.
- Fresh tip treatment and burn-back time control are adjustable.
- Secondary short circuit protection is a standard function.
- Arc sensitivity is selectable by changing the tap of the reactor.
- Crater current and crater voltage controls on front panel.
- Works on 50/60 Hz frequency in power supply.
- Welding base metals-Mild steel, Medium/High carbon steel, Low alloy steel.

Technical Specifications

Technical parameter	Units	250KR2	400KR2	500KR2
Rated input voltage	Volts.	415, +10%, -10%		
Phase/Freq.	No./Hz	3ph/50-60		
Input KVA@ 60% duty cycle	KVA/KWA	9.5/7.9	21/19	31.9/28.1
Rated Current Range	Amps	50-250	60-400	60-500
Rated Output Range	Volts	15-27	16-39	16-45
Duty Cycle	%	60	60	60
Ingress Protection	Class	IP21S	IP23	IP23
Insulation	Class	H Class		
Weight	Kg	94	149	158

350/500FD2

Full Digital Pulse MIG/MAG Welding System (Specialized model for Aluminium MIG welding)



Key Features

- The high quality aluminium MIG welding of both thin and middle thick aluminium plate.
- The wire feeder motor equipped with high-precision encoder.
- Instant and stable arc ignition.
- Single pulse welding for medium and thick aluminium materials.
- Dual pulse welding for thin plate and vertical welding.

Technical Specifications

Technical parameter	Units	350FD2	500FD2
Control method	-	Digital IGBT control	
Rated Input/No. of phases	-	3-phase AC 380V	
Rated power frequency	Hz	50/60	
Rated input capacity	KVA/KW	17.6/13.5	29.9/23.9
Rated output current	A	DC350	DC500
Rated duty cycle	%	60	60
Rated output no-load voltage	V	DC 80	DC 80
Output current range	A	DC 40-30	DC 60-500
Welding method	-	MIG Aluminium	
Memory	-	100-channels welding parameter storage	
Weight	Kg	124	133

CC/CV

280RK

Digital Inverter CO₂/MAG/Stick Welding Machine (for thin carbon steel plate)



Key Features

- An ideal selection for thin plate industries such as Agriculture, Metal furniture, Bi-cycle and Case & Cabinet etc.
- Multiple application modes: Rapid Mode, Tack Welding, Standard Mode, Manual Welding Mode.
- The intelligent crater function can match crater current with welding current, making operation easier.

Technical Specifications

Technical parameter	Units	280RK
Control method	-	Digital IGBT control
Rated Input/No. of phases	-	3-phase AC 380V, -/+25%, (285V to 475V)
Rated power frequency	Hz	50/60
Rated input capacity	KVA/KW	13.5/13
Rated output current	A	350
Rated duty cycle	%	60
Rated output no-load voltage	V	DC 70
Output current range	A	40-430
Weight	Kg	54

350/500/630FR2

Digital Inverter CO₂/MAG/Stick Welding/Gouging* Machine (Gouging in case of 630FR2 only)



Key Features

- CO₂/MAG Welding.
- Shielded metal arc welding /Gouging.
- High-performance wire feeding system (IVF:40 metre extension cable also okay).
- Phase lock protection.
- Output short circuit protection.

Technical Specifications

Technical parameter	Units	350FR2	500FR2	630FR2
Control method	-	Digital IGBT Control		
Rated Input/No. of phases	-	3-phase AC 415V, -30%, +13% (290V - 470V)		
Rated power frequency	Hz	50/60		
Rated input capacity	KVA/KW	13.5/13	23.3/22.4	31.8/30.4
Rated output current	A	350	500	630
Rated duty cycle	%	60	100	100
Rated output no-load voltage	V	DC 70	DC 70	DC 69
Output current range	A	40-430	60-550	60-630
Weight	Kg	54	60	76.5