



ISO 9001:2000 Registered
CMB Division 2.1 Certified

China Steel Inc.

164 Industrial Park Crescent
Sault Ste. Marie, Ontario
Canada P6B 5P2
Phone (705) 942-3200
Fax (705) 942-7313
Email: info@china-steel.com
Web: www.china-steel.com

Demonstrating a Continued Investment in Technological Advancement and a Commitment to Our Future – Introducing – The Latest Addition To Our Fabrication Family

Robotic Welding Machine Technology Provides High Quality, Efficiency, Reliability & Repeatability

The Panasonic PerformArc 102S robot system is not only versatile but rugged as well. This robot automates arc welding, material handling, and process applications.

Panasonic PerformArc 102S

VR-006G II arc welding 6-axis articulated robot manipulator with 1360mm electrode reach to the centre line of the sixth axis and $\pm 0.1\text{mm}/0.004''$ or less repeatability. Fully integrated robot controller digitally interfaced with high-performance Panasonic Artificially Intelligent inverter power supply and 32-bit RISC processors for superior welding performance. Exclusive Windows™ CE-based teach pendant provides a user-friendly interface that enhances productivity and complete offline operator training capabilities. Superior arc starts through a patented technology known as impulse arc start, and a flying arc start that saves time and increases productivity. Full digital technology for improved robot weld quality and lower spatter



Specifications

- Manipulator: VR-006G II / Robots: Single / Max Reach: 1360mm / Processor: 32-bit RISC

Main Applications

- Arc Welding / Material Handling / Process Applications

Dimensional Specifications*		Top View			
Frame length	1360 mm (53.15")				
Frame width	1022 mm (40.2")				
Frame height	2180 mm (85.7")				
Robot height from floor	234 mm (9.21")				
Overall robot size	281 mm (11.06") D 510 mm (20.08") H				
Cell width including doors	1800 mm (70.865")				
Fixture maximum reference height	1000 mm (39.37")				
Cell front opening length	1400 mm (55")				
Preparation distance (Shipping calculation)	419 mm (16.5")				
Location of control	1824 mm (71.8")				
Shipping weight	1020 kg (2250 lbs)				
*Note: All dimensions are approximate.					
Standard Specifications				Front View	
Fully integrated Panasonic robot solution includes:					
Panasonic 6-axis VR-006G II Arc Welding Robot					
Panasonic 60 Controller with teaching pendant, Teach Pendant CE					
Panasonic Manipulator with built-in feedback error, auto					
Panasonic 4 drive set with feedback wire feeder					
Panasonic 32-bit RISC robot controller					
Panasonic teach pendant					
Panasonic high speed main rotating robot positioner: Parallel Type R-100					
Panasonic designed and manufactured top productivity system					
Optional features include:					
Prepaid operator interface: 8 step, Auto, Auto On, Mode Select, Take, Load, Load, Start					
RF for open ending system for easy access to the teaching area					
TCP sensor and automatic TCP check program					
Teach pendant monitor and maintenance program: door for easy unit swap					
Air start, stop, arc, emergency, flying arc start, power off protection					
Impulse function, swing function, online help function, APC, and machine					
General system information:					
Integrated safety environment including light curtain, 0% checked safety switch, access doors, air sensor, safety on main motor, feed stop, stop or stop					
General insurance: look to the main switch panel, correct position, emergency					
No assembly required, up and running shortly after placement					
Zero to move, double access front and side of cell					
Designed for compliance to industry safety standards					
ANSI/ISO 10261-1988, ISO 11460, NFPA 79, CSA Z432					
Recommended System Options		Post-tension General Technical Specifications			
Standard training and installation package		Model: PerformArc 102S Type II			
Full power 200, 250, 375kW, 3 phase—480VAC standard		Motor type: Panasonic Servo AC Drive Servo			
8000 psi rated safety		Control type: Robot Drive Control			
Operator face up (1) or load position at each position		Payload (see table): 30 kg (66 lbs)			
1.5kW AC drive motor		Payload (from main positioner C1): 450 mm (18")			
100% max. in motion		Rotation time (C100 tag index): 1-2.2 sec			
Change torch calibration system		Through hole (for safety pass through): 50 mm			
Change air system setting		Robot Options			
Touch sensing		Welder Options			
Water cooled torch package		TAN200MG: MFG-402			
Ethernet card		TAN200G: MFG-402			
CNC tool program master/robot program management software		TAN200G: MFG-402			
CNC tool program and off-line programming software		TAN200G: MFG-402			
MFG-402 teach pendant management protection software		TAN200G: MFG-402			
Arc detector and application software: inverter drive (MFG-402) (MFG-402)		TAN200G: MFG-402			
Automatic electrical control (MFG-402) (MFG-402)		TAN200G: MFG-402			