



**NICA ROBOTICS CORP.**  
Numeric Integration Creative Automation  
Your Automation Partner

## NICAWELD 6

Six -Axis Robot for Mig  
Welding Process

## WELDING

The NICAWELD 6 increases productivity for small to large part minimal to high payload applications and eliminates the need for a linear track. A contoured upper arm enables easy access to features in tight areas, and the reduced interference design accommodates proximity placement robots. While a wide wrist motion range eliminates interference, improving application flexibility, high moment and inertia ratings-combined with breakneck axis speeds and acceleration capabilities, enables the NICAWELD 6 robot to handle the most challenging welding project needs efficiently.

### Specifications

Allawable moment of Inertia	Unit	NICAWELD 6
Controlled Axes		6
Maximum Payload	Kg	6 kg
Repeatability	mm	0.05
Horizontal Reach	mm	2005mm
Vertical Reach	mm	2005mm
Weight	Kg	160 kg
Internal User 1/0 cable		24 conductors ground
Internal User air line		(1) 3/8" connections
Power Requirements		2.5 KW
Power Rotting	KVA	3.125

## Contact Us!



049 - 306 89 30



info@nicarobotics.com



Blk 2 Lot44 Solcar Ville Brgy. Dita  
Santa RosaLaguna, Philippines



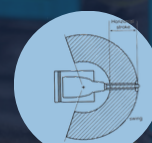
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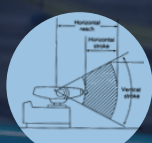
6kg  
Payload



i8 Robot  
Controller



2005mm  
Horizontal  
Reach



2005mm  
Vertical Reach





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### NICA ROBO CONTROLLER 4 Axis, 6 Axis, 8 Axis



- Speed: 300m/min
- Interface: USB+RS232  
Communication Port
- Function: PLC+CNC+Teach
- Port: 48input 32output
- CPU: ARM(32bits)+DSP+FPGA
- User Store Room: 256Mb (Expand to 2G)
- Display: 8 Inch Real Color LCD
- Program: Teach function, G code

1. The motor power adapt 100W-11KW
2. Single channel, two-channels AC servo motor driver controlling system
3. Switch to torque, speed, position, locate with point to point and mixed mode
4. Position control, speed control, servo electrical tool rest and JOG controlling mode
5. With built-in 4 segment locating position could control point to point locate freely
6. Accuracy of locating  $\pm 0.01\%$
7. Input frequency of pulse is less than 500KHZ
8. Analog input: 0~10V or 0~ $\pm 10$ V
9. Modified the space vector algorithm, the torque is bigger than the normal SPWM, the sound is lower
10. Overload capacity 300%
11. The power supply adapt  $\sim 220V \pm 20\%$  or  $\sim 380V \pm 20\%$
12. Perfect protection: Overload current, overload voltage, overload heat, short circuit and fault of encoder
13. Many kinds of display: Rotating speed, current and offset position of motor, number of pulse, pulse frequency, straight line speed, diagnosis of input and output, history records of alarm and so on.

	AMIG-P-350R	AMIG-P-500R
Rated input voltage/frequency (Hz)	3 phase, 380V $\pm 10\%$ , 50 /60Hz	
Rated input capacity (KVA)	12.7	23.4
Rated input current (A)	19.4	36.1
Duty cycle (40C)	60%@350A	60%@500A
OCV (V)	72	106
Adjustable current range (A)	60-350	60-500
Adjustable voltage range (V)	14-40	14-50
Trigger mode	2 /4T, Spot, Repeat	
Wire size (mm)	0.8, 1.0, 1.2, 1.6	
Protection class	IP23S	
Insulation class	H	
Interface	Analog communication /Devicenet, CAN, 485, digital communication	
Dimension (mm)	655*324*546	655*324*546
Weight (kg /lb)	45 /99	53/121.3



### NICA CNC WELDING POSITIONER 1- 6 Axis

- Load Capacity: as per requirement
- Variable speed
- Solid state controls with dynamic braking
- User-friendly hand crank tilt feature
- CNC or Ordinary control unit

Note: NICA Robotics will design anykind of CNC Welding Positioner based on your needs.

