

THE ULTIMATE ARC WELDING ROBOT

NV06/06L

Optimal Robot for Arc Welding Application

Selectable Arm Type

Select either the standard or the long arm according to your job and the size of your workpiece.

Upper Arm Is Slim

The upper arm has been reduced from 140 mm (previous models) to 134 mm to avoid interference in narrow spaces.

Reduce Collision Damage

Improved sensitivity of servo shock sensor detects interference 40% better (compared to previous models) and force of interference is controlled to reduce damage from collisions.

Supports several welding applications

Supports various welding methods such as CO/MAG, MIG, TIG, and others, plus it has enough load capacity to easily handle a sensor.



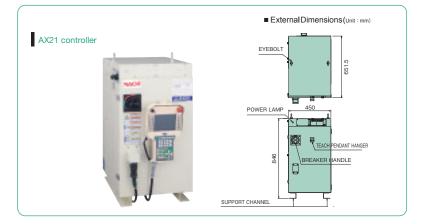
NV06/06L

Nachi's Arc Welding Robot

Pobot specifications

Item				Specifications	
Robot Model				NV06	NV06L
Construction				Articulated construction	
Number of Axes				6	
Drive System				AC Servo System	
	Arm	J1	Swivel	±2.97rad (±0.87rad)*1	
Max. operating area		J2	Forward/backward	-2.71~1.57rad	-2.71~1.75rad**2
		J3	Upward/downward	-2.97~3.32rad	-2.97~4.54rad**3
	Wrist	J4	Rotation2	±3.14rad	
		J5	Bending	−0.87~4.01rad	
		J6	Rotation1	±6.28rad	
Max. speed	Arm	J1	Swivel	3.66rad/s(2.61rad/s)*1	3.40rad/s(3.05rad/s)*1
		J2	Forward/backward	3.66rad/s	3.49rad/s
		J3	Upward/downward	3.66rad/s	3.49rad/s
	Wrist	J4	Rotation2	7.33rad/s	
		J5	Bending	7.33rad/s	
		J6	Rotation1	10.82rad/s	
Max. Payload Wrist Forearm		ist	6kg		
		Fore	earm	10kg**4	20kg**4
Allowable static load torque of wrist		J4	Rotation2	11.8N•m	
		J5	Bending	9.8N•m	
		J6	Rotation1	5.9N·m	
Max. allowable moment of inertia of wrist [‰] 6		J4	Rotation2	0.30kg·m²	
		J5	Bending	0.25kg·m²	
		J6	Rotation1	0.06kg·m²	
Position repeat accuracy				±0.08mm*5	
Installation parameters	Ambient temperature		0~45℃		
	Ambient humidity		20~80%RH (Non condensing)		
	Vibration value			0.5G Not more than 0.5G	
Robot type				Floor mounted, Ceiling mounted, Wall installation	
Robot mass				160kg	280kg

*1 Values in (parentheses) are for wall installations. *2 Wall installation may limit range of motion of J2 axis. %3 For floor installations for welding, range of motion of J3 axis is limited to 2-2.97 rad to 3.58 rad. %4 Maximum allowed loading capacity when end effector is used. %5 Value measured is for maximum load on upper arm for adequate repetitions of automatic operations in stable robot operating conditions. #6 Note that wrist moment of interia varies depending on wrist and conditions.



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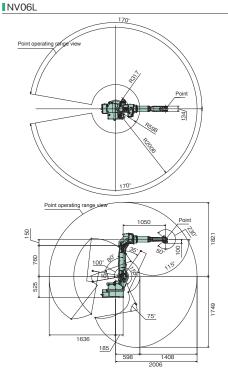


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- The specifications are subject to changes without notice.
- In case that an end user uses this product for military purpose or production of weapon, this product may be liable for the subject of export restriction stipulated in the Foreign Exchange and Foreign Trade Control Law. Please go through careful investigation and necessary formalities for export.



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CATALOG NO.