

Friendly series II

Optimum Collaborative Robot for Arc Welding



Long reach specification





- 1.4 times*1 the work range of conventional collaborative robots
- Expansion of applications such as multi-station
 - *1: Comparison with FD-VC4

Compatible with various welding methods and dedicated functions

- Various types of welding, including CO₂/MAG and TIG welding.
- Compatible with a wide range of welding-specific periods (option).
 - Weaving function Arc sensor function Touch sensor functions, etc.

Easy robot introduction

- Space-saving installation without safety fence*2 and easy relocation
- Various teaching support functions to simplify robot operation
 - *2: If a safety fence is not installed, a risk assessment by the customer is required.



Welding package



Compatible with tall workpieces



Achieves a wide operating range.



Various teaching support functions to simplify robot operation

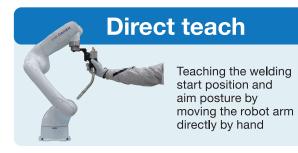


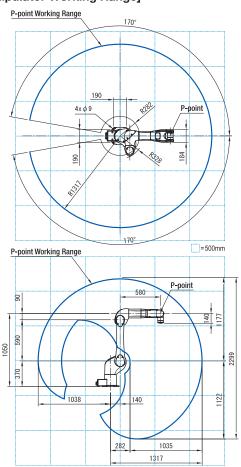
Photo touch teach (option)





Automatically Generate Teaching Program by Tablet Only

[Manipulator Working Range]



[Manipulator Specifications]

Item			Specification
Model			NVC4L
Structure			Vertically articulated type
Number of Axes			6
Wrist Capacity			4 kg
Positional Repeatability			±0.04 mm (Note 1)
Drive Method			AC servo motor
Drive Capacity			1300 W
Position Feedback		edback	Absolute encoder
Working range	Arm	J1 (Rotation)	±170°
		J2 (Front/Back)	-155°∼+90°
		J3 (Up/Down)	-165°∼+240°
	Wrist	J4 (Swing)	±170°
		J5 (Bending)	-30°∼+210°
		J6(Twist)	±360°
Maximum Speed			1000mm/s (Note 2)
Wrist AllowableLoad	Allowable moment	J4 (Rotation)	13.0 N · m
		J5 (Bending)	13.0 N · m
		J6 (Twist)	4.4 N · m
	Allowable Moment of Inertia	J4 (Rotation)	0.462 kg · m²
		J5 (Bending)	0.462 kg · m²
		J6 (Twist)	0.048 kg · m²
Arm Cross-section Area			3.04 m² × 340°
Environmental			RHTemp.: 0 to 45°C, Humidity: 20~80%RH
Conditions			(No-condensation)
Weight			47 kg
IP code			IP65
Installation method			Floor-mounted
Paint color			Alice Blue

Note 1) Position repeatability of thr tool center point (TCP) value complies with the JIS B 8432 Standard.

Note 2) Regarding the specification of the operation speed, a risk assessment in the use environment is required.

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Note

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