

# Robotic Arm CA05L



## Features:

1. Top speed: By using light-weight arms and small sized motors, the fastest speed and acceleration is greatly enhanced. In addition, by adjusting acceleration of load and orientation, optimal continuous performance is fulfilled and cycle time is greatly reduced.
2. Tiny wrist and high torque: Compact wrist realizes free operation in narrow space. In addition, by adopting high output rotational torque and high rotating speed small-sized motors as well as enhancing wrist stiffness to raise the wrist loading capacity. The selection range of gripper, tool, and workpiece shape is also broadened.
3. Large area operation range: Besides maximum operation range, it also broadens the area of the all the axes. Thus expansion of the lower region and main body neighboring region action range is realized. The layout freedom is also raised.
4. Good environment adaptability: Each joint adopts double layer sealing structure and water proof interface so that the wrist part Ingress Protection Rating and basic axis Ingress Protection Rating reach IP67 and IP65 respectively.
5. High expandability: In the process of selecting accessories, built-in solenoid valve and detecting cable are applied so that the application of peripheral robotic arms, loading and unloading becomes easier. Moreover, standard cable bracket installation screw holes are configured in each axis of the robotic arm so that additional tubing and wiring can be achieved later on.

## Product Specifications

Function	Description	
Model	CA05L	
Arm format	Vertical multi-joint	
Controlled axes	6 Axis	
Maximum payload (kg)	5Kg	
Maximum motion range (°)	Rotation	±180°
	Horizontal arm	+135° ~ -80°
	Vertical arm	+118° ~ -172°
	Inner wrist	±360°



	Wrist bend	±145°
	Wrist turn	±360°
Maximum speed (°/sec.)	Rotation	355° / s
	Horizontal arm	355° / s
	Vertical arm	410° / s
	Inner wrist	460° / s
	Wrist bend	460° / s
	Wrist turn	740° / s
Allowable moment (N·m)	Inner wrist	12.3N · M
	Wrist bend	12.3N · M
	Wrist turn	7N · M
Allowable moment of inertia (kg·m <sup>2</sup> )	Inner wrist	0.4kg · m <sup>2</sup>
	Wrist bend	0.4kg · m <sup>2</sup>
	Wrist turn	0.12kg · m <sup>2</sup>
Repeatability (mm)		±0.02mm
Reach		705mm
Resultant maximum speed		9000mm/s
Weight		34kg
Mounting positions		Floor, Top
Environment	Ambient temperature	0° ~ 45°
	Relative humidity	35 ~ 85%, , non-condensing
IP Protection		Arm: IP67, Base: IP65
Power rating		3kVA
Corresponding controller		EC01

### Ordering Information

Model No.	Descriptions
CA05L	Robotic arm CA05L



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