

Presto

NACHI
NACHI ROBOTIC SYSTEMS INC.

VS05E/LE-02



Fastest in its class – High power AC servo motor shortens standard cycle time

Suitable for precision assembly processes

Compact – Slim 110mm arm reduces interference

Powerful – Robot body can handle up to 5kg payloads and allowable moment of inertia

Advanced AXC controller – Windows NT Embedded™ is built into the PC-based controller

Easy and Simple Operation – Easy-to-use teach pendant with color graphic display and built-in manual

APPLICATIONS

Handling

Machine Loading

Assembly

Sealing

Inspection

Palletizing

www.nachirobotics.com

VS05E/LE-02



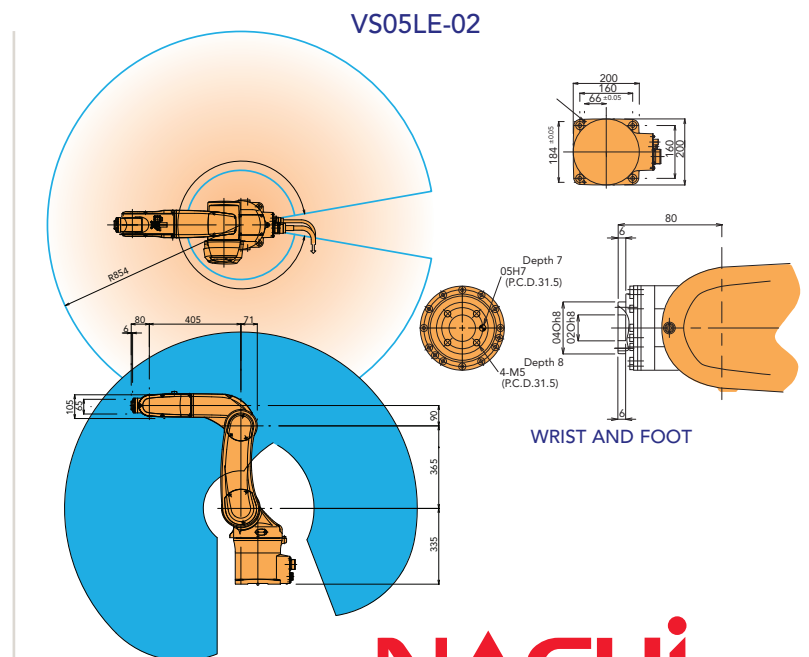
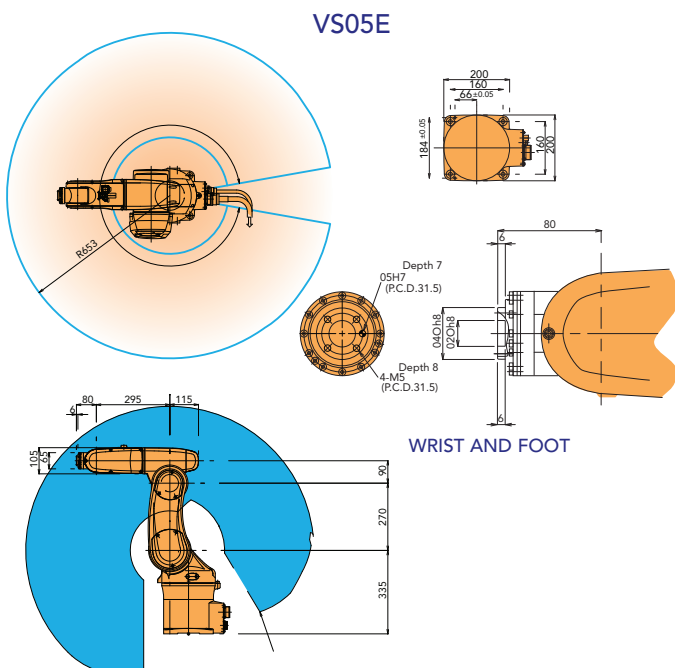
BASIC SPECIFICATIONS

		VS05E	VS05LE
Robot Type		Standard	Standard
Construction		Articulate	Articulate
Number of Axes		6	6
Drive		AC Servo Motor	AC Servo Motor
Maximum Stroke	Arm	J1 Swivel	±2.97 rad
		J2 Back & Forth	-2.36 to +1.75 rad
		J3 Up & Down	-2.15 to +4.10 rad
	Wrist	J4 Rotation 2	±3.32 rad
		J5 Bend	±2.09 rad
		J6 Rotation 1	±6.28
Maximum Velocity	Arm	J1 Swivel	4.58 rad/s
		J2 Back & Forth	4.19 rad/s
		J3 Up & Down	5.24 rad/s
	Wrist	J4 Rotation 2	5.24 rad/s
		J5 Bend	5.24 rad/s
		J6 Rotation 1	8.37 rad/s
Loading Weight		5 kg	5 kg
Wrist Torque	J4 Rotation 2	11.9 N · m	11.9 N · m
	J5 Bend	11.9 N · m	11.9 N · m
	J6 Rotation 1	3.9 N · m	3.9 N · m
Allowable Moment of Inertia	J4 Rotation 2	0.295 kg · m ²	0.295 kg · m ²
	J5 Bend	0.295 kg · m ²	0.295 kg · m ²
	J6 Rotation 1	0.045 kg · m ²	0.045 kg · m ²
Repeatability		±0.02mm (The tool installation surface center) *1	±0.03mm (The tool installation surface center) *1
Installation Parameter	Ambient Temperature	0~40°C	0~40°C
	Ambient Humidity	20 to 90% RH (No dew formation)	20 to 90% RH (No dew formation)
	Vibration Value	Below 0.5 G	Below 0.5 G
Installation		Floor-mount / Overhead-mount	Floor-mount / Overhead-mount
Robot Body Weight		~28 kg	~29 kg

1 [rad] = 180 / π [°], 1 [N · m] = 1 / 9.8 [kgf · m]

*1: At the time with temperature's being constant around, it is each X, Y, Z direction.

OPERATING RANGES



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For more information and specifications, please visit www.nachirobotics.com