### **Specifications**

Model		JS3-3520	JS3-4520	JS3-5520
Number of Control Axes			4 Axes	
Drive Method		AC Servomotor		
Position Detection Method		Absolute Encoder		
Arm Length	Maximum (J1+J2)	350mm	450mm	550mm
	J1 Arm	125mm	225mm	325mm
	J2 Arm	-	225mm	
	J1 Axis	340°(±170°)		
Operation Range	J2 Axis	290°(±145°)		
	J3 Axis	200mm		
	J4 Axis	720°(±360°)		
Portable Mass		Maximum 6 kg (Rating 3kg)		
Acceptable Moment of Inertia		Maximum 0.12kgm² (Rating 0.01kgm²)		
Maximum Speed	J1+J2+J4 Axes Combined *1	6900mm/sec	7600mm/sec	8300mm/sec
	J3 Axis	0900mmysec	2080mm/sec	0300Hilly Sec
	J4 Axis	2500°/sec		
Standard Cycle Time*2		0,29sec		
Repeatability *3	J1+J2 Axes Combined	±0,010mm	±0,010mm	±0,012mm
	J3 Axis	20.01011111	±0,010mm	20,01211111
poutub.iity	J4 Axis	±0.010mm ±0.004°		
J3 Axis Resistance '4		165N		
Robot Mass		36kg	36kg	37kg
Tool Wiring		3000	· I/O-H 8 Hand Inputs/8 Hand Outpu	
		· LAN Cable <100BASE-TX>		
Air Piping		Primary: Ø6×2 Tubes, Secondary: Ø4×8 Tubes *5		
Control Method		PTP (Point to Point), CP (Continuous Path)		
Interpolation		3-dimensional linear and arc interpolation		
Teaching Method		Remote Teaching (JOG), Manual Data Input (MDI)		
Teaching Pattern		·Direct teaching using optional Teaching Pendant		
		·Offline teaching using optional JR C-Points II PC Software		
		·CAD Data (DXF, Gerber, jpeg) compatible		
Program Capacity		Maximum 999 Programs		
Database Capacity *6		Maximum 32,000 Points		
Simple PLC Function			Maximum 1000 Steps	
PC Software		English, Japanese, German, Chinese (both Simplified & Traditional)		
Screen Display Languages	Teaching Pendant	English, Japanese, German, Italian, Spanish, French, Korean, Chinese (both Simplified & Traditional), Czech, Vietnamese		
External Input/Output	LAN	For robot control via control commands and connection to JR C-Points II PC Software		
	MEMORY	USB Memory Connector (for saving and reading out teaching & customizing data, and for upgrading system software)		
	I/O-SYS*7	15 Inputs/14 Outputs		
	I/O-1*7	18 Inputs/22 Outputs (including 4 relay outputs)		
	I/0-S	for safety device connection		
	I/O-H*7	8 Hand Inputs/8 Hand Outputs		
	COM1、COM2	RS-232C (External Device Control & COM Commands)		
	I/O-MT *7(Optional)	Motor Control, Auxiliary Axes 2 Channels		
	Field Networks (Optional)	EtherNet/IP, PROFINET, CC-Link, DeviceNet, PROFIBUS, CANopen		
	Other	Teaching Pendant Connector		
Power Supply		AC200~240V (single phase) ±10%(50/60Hz)		
Power Consumption		1600W		
	<b>Environment Temperature</b>	0~40°C		
Operating Environment	Relative Humidity	45~85% (no condensation)		
	Elevation	Not exceeding 1000m above sea level		
		Not exceeding 1000m above sea level		

- \*1: This is the J1, J2 and J4 axes' maximum speed with a control point on a flat X-Y surface. (The control point is a position 30mm from the center of the J4 axis' rotation.)
- \*2: Value when bearing a 2kg load. Cycle time may increase when precision workpiece positioning is necessary or due to the robot's operating position(s).
- \*3: Repeatability is not a guarantee of absolute precision.
- \*4: The downwards pressing force at the tip of the load when the robot is bearing its maximum load and the J1, J2 and J4 axes are at rest.
- An excess load error may occur if a pressing force is applied for an extended period of time.
- \*5: The  $\emptyset$ 4 secondary piping is used when the optional solenoid valve is added.
- \*6: The point data memory capacity may reduce as additional function data settings/point job data/sequencer data are added, due to the shared storage area.
- \*7: Please choose either NPN or PNP polarity.
- <Standard Accessories>
- $\cdot \text{Operation Manual}(\text{CD-ROM}) \qquad \cdot \text{Short Connectors for (Teaching Pendant, I/O-S and I/O-SYS)} \qquad \cdot \text{Robot to Controller Connector Cable}$

- •Teaching Pendant •Operation Box •Controller Power Cord •I/O-1 Cable & Connector •I/O-MT Cable & Connector
- ·Solenoid Valve (NPN/PNP) ·Hand Output Cable ·Hand Input Cable ·Curled Tube for Hand Cables ·Built-in Hand Wiring & Tubing
- External Wiring & Tubing Box Mechanical Stopper for J1 Range Modification J1/J2 Adjustment Tool • PC Software JR C-Points II (Windows®7/8.1/10 compatible)
- •Before using the robot, please read the operation manual and make sure you are using the robot correctly.
- Specifications may change without notice to improve product quality.

  If you have any questions, please contact us at the telephone number listed below, or visit our website.

C33-00(04.1)EN 2022.3-000

## **JANOME** Corporation **Industrial Equipment Sales Division**

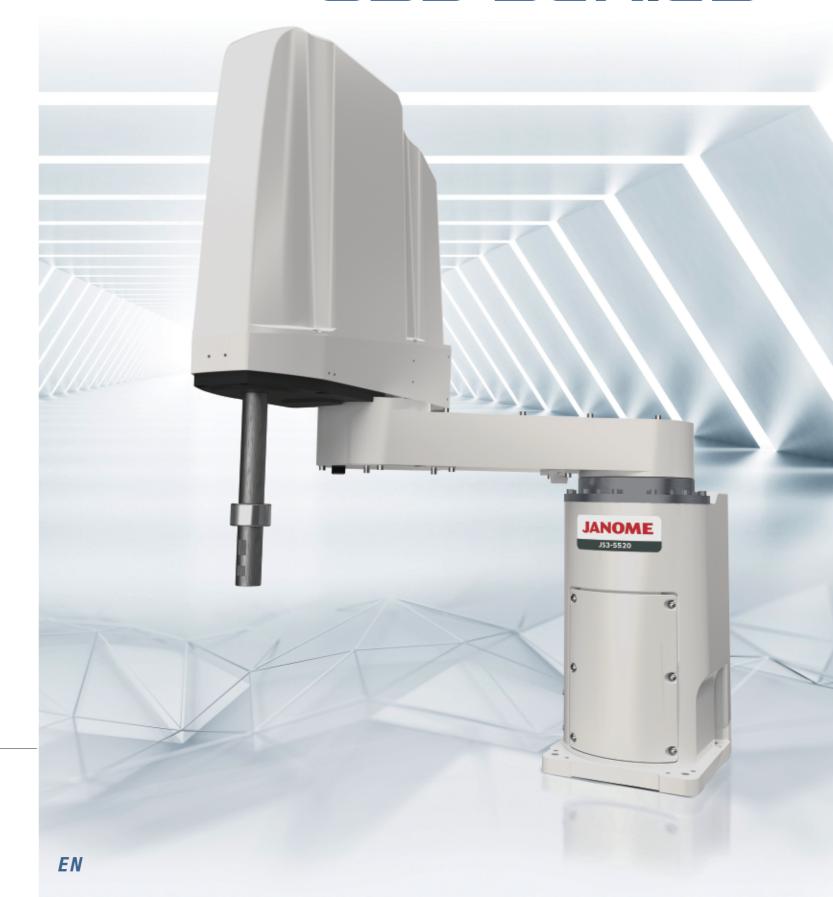
1463 Hazama-machi, Hachioji-shi, Tokyo 193-0941, Japan Tel: +81-42-661-6301 FAX: +81-42-661-6302

E-mail: j-industry@gm.janome.co.jp URL: www.janome.co.jp/industrial.html



**SCARA ROBOT** 

# JS3 SERIES



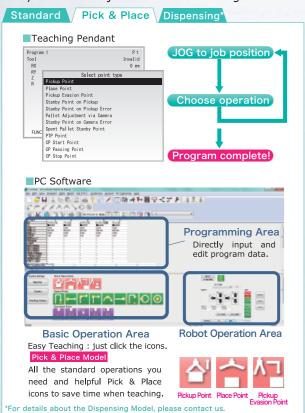
# Cut costs with our user-friendly, fast and highly functional SCARA Robot!

Highly rigid SCARA robot arm offers high speed, high precision and heavy payload capabilities! Using our own easy-to-use teaching software, make fine adjustments while the robot runs.

Setup is simple, and the JS3 is useful for a wide range of jobs, from high-speed small parts pick-and-place transport to high-precision assembly.

#### User Friendly Teaching

Teach using our interactive teaching pendant or get a hands-on feel for the robot's operation teaching via our PC software. Shorten your equipment setup time and easily make fine adjustments while running the robot.



#### Works Fast!

Our standard cycle time is top class: 0.29sec, with a maximum speed of 8,300mm/sec, helpful for shorter tact times and greater efficiency.





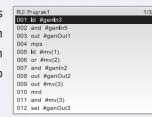
### Abundant Communication Functions

Our dedicated controller has a LAN port as standard equipment, and is compatible with 6 field networks.



#### Built-in Simple PLC Function

The robot comes with its own simple PLC function for basic communication with external devices; no need for a separate PLC.



#### Model

35:350mm 20:200mm 45:450mm

55:550mm



