Specifications

Model		JS3-3520	JS3-4520	JS3-5520
Number of Control Axes			4 Axes	
Drive Method		AC Servomotor		
Position Detection Method		Absolute Encoder		
	Maximum (J1+J2)	350mm	450mm	550mm
Arm Length	J1 Arm	125mm	225mm	325mm
	J2 Arm	12311111	225mm	32311111
	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)		
Acceptable Moment	J1+J2+J4 Axes Combined *1			
Maximum Speed	J3 Axis	6900mm/sec	7600mm/sec	8300mm/sec
		2080mm/sec		
Chandand Cooks T	J4 Axis	2500°/sec		
Standard Cycle Time		10.010	0.29sec	10.013
Repeatability *3	J1+J2 Axes Combined	±0.010mm	±0.010mm	±0.012mm
	J3 Axis	±0.010mm		
	J4 Axis	±0.004°		
J3 Axis Resistance '4		165N		
Tool Wiring		36kg	36kg	37kg
		• I/O-H 8 Hand Inputs/8 Hand Outputs • 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		
Carrent Diambar Laurenne	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/0-1*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)	CC-Link, DeviceNet, PROFIBUS, PROFINET, CANopen, EtherNet/IP		
	Other	Teaching Pendant Connector		
Power Supply		AC200~240V (single phase) ±10%(50/60Hz)		
Power Consumption		1600W		
Operating Environment	Environment Temperature	0~40°C		
	Relative Humidity	45~85% (no condensation)		
	Elevation	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 \varnothing 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>

· Operation Manual (CD-ROM) · Short Connectors for (Teaching Pendant, I/O-S and I/O-SYS) · 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(02.0)EN 2018.07-000

Janome Sewing Machine Co., Ltd. Industrial Equipment Sales Division

1463 Hazama-machi, Hachioji-shi, Tokyo 193-0941 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

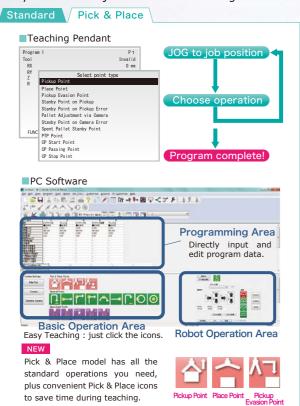


Cut costs with our user-friendly, fast and highly functional SCARA Robot!

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

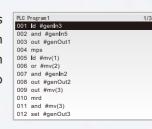
Our dedicated controller has a LAN port as standard equipment, and is compatible with 6 field networks.





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.



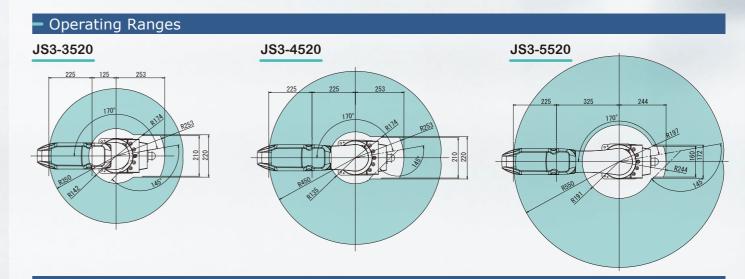
Model

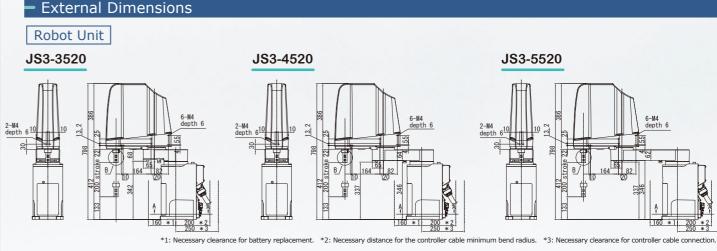
JS3 - 35 20

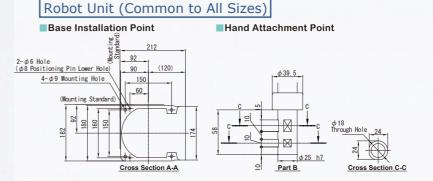
35:350mm 20:200mm

45:450mm 55:550mm









Controller (Common to All Sizes)

