

## The JSTH Series SCARA Robot from Janome

JSTH Series (Arm Length: 350mm – 550mm)

Model		JS350TH	JS450TH	JS550TH(L)
Arm Length (mm)	J1 Arm	125	225	325
	J2 Arm	225		
	J1 + J2	350	450	550
Operation Range (mm)	J1 Arm	±130°		
	J2 Arm	±150°		
	Z-Axis	200		200 (300)
	R-Axis	±360°		
Maximum Speed *1	J1 and J2 (combined)	6,300	5,600	6,200
	Z-Axis	1,800		
	R-Axis	1,900°/sec		
Repeat-ability *2 (mm)	X-and Y-Axis	±0.01	±0.015	
	Z-Axis	±0.01		
	R-Axis	±0.01		
Acceptable Moment of Inertia (kg · m <sup>2</sup> )		0.1		
Maximum Portable Weight (kg)		6		
Standard Cycle Time *3 (sec) (When carrying 2kg of work piece)		0.43	0.45	0.43
Tool Wiring and Piping		14 wires for signals, 4 air pipes: Φ4		
Machine Weight (kg)		30	31	32
Control Box Weight (kg)		20		

## The JSTH Series SCARA Robot from Janome

JSTH Series (Arm Length: 650mm – 1000mm)

Model		JS650TH	JS750TH	JS880TH(L)	JS1000TH (L)
Arm Length (mm)	J1 Arm	300	400		520
	J2 Arm	350		480	
	J1 + J2	650	750	880	1,000
Operation Range (mm)	J1 Arm	±130°			
	J2 Arm	±150°		±160°	
	Z-Axis	200			200(300mm / 500mm)
	R-Axis	±360°			
Maximum Speed *1	J1 and J2 (combined)	6,700	7,200	6,500	7,000
	Z-Axis	2,000			
	R-Axis	1,800°/sec			
Repeat-ability *2 (mm)	X-and Y-Axis	±0.02		±0.025	
	Z-Axis	±0.01			
	R-Axis	±0.01			
Acceptable Moment of Inertia (kg · m <sup>2</sup> )		0.2			
Maximum Portable Weight (kg)		20			
Standard Cycle Time *3 (sec) (When carrying 2kg of work piece)		0.44	0.46	0.47	0.5
Tool Wiring and Piping		14 wires for signals, 4 air pipes: Φ6			
Machine Weight (kg)		65	67	68	70
Control Box Weight (kg)		27			

## JSTH Series Specifications

<b>Programming Capacity</b>	255 Program
<b>Data Memory Capacity *4</b>	Maximum 30,000 points
<b>Position Detection</b>	Absolute Encoder
<b>Control Method</b>	PTP (Point to Point) control, CP (Continuous Path) control
<b>Interpolating Function</b>	3-Dimensional Line and Arc Interpolation
<b>External Interface</b>	RS422 1ch (for teaching pendant)
	RS232C 1ch (for PC:COM1)
	RS232C 2ch (for external device: COM2,COM3)
<b>External Input/Output *5</b>	I/O-SYS Input: 15/Output:14
	I/O-1 Input: 18/Output: 22 (4-relay contact)
	I/O-H Input: 4/Output: 4(2-relay contact)
<b>Power Supply</b>	AC180-250V (single phase)

- \*1 Measured on a machine with regenerative resistors. Maximum speed cannot be achieved under the maximum portable weight setting.
- \*2 Repeatability was measured at a constant temperature, so absolute precision is not guaranteed.
- \*3 Measured on a machine with regenerative resistors. Continuous operation cannot be achieved at the maximum cycle time.
- \*4 The point data capacity will be reduced if the additional function data setting/point job data/sequencer data increases, due to the shared data storage area.
- \*5 NPN/PNP can be chosen before shipment.

Specifications are subject to change without prior notice due to continuing product improvements.