

# JS series

## JS 250



## JS 350



## JS 450



## JS 550



## JS series Specifications

Item		Model	JS250	JS350	JS450	JS550
Axis Type			4 (synchronous control)			
Arm Length	J1 Arm		100mm	125mm	225mm	325mm
	J2 Arm		150mm	225mm	225mm	225mm
	J1+J2		250mm	350mm	450mm	550mm
Operation Range	J1 Arm		±130°	±130°	±130°	±130°
	J2 Arm		±145°	±150°	±150°	±150°
	Z-Axis		150mm	150mm	150mm	150mm
	R-Axis		±360°	±360°	±360°	±360°
Maximum Portable Weight			4kg	6kg	6kg	6kg
Acceptable Moment of Inertia			0.1kg·m <sup>2</sup>	0.1kg·m <sup>2</sup>	0.1kg·m <sup>2</sup>	0.1kg·m <sup>2</sup>
Maximum Speed <sup>1)</sup>	J1 and J2 (combined)		4,200mm/sec	6,300mm/sec	5,600mm/sec	6,200mm/sec
	Z-Axis		1,400mm/sec	1,850mm/sec	1,850mm/sec	1,850mm/sec
	R-Axis		1,750°/sec	1,900°/sec	1,900°/sec	1,900°/sec
Repeatability <sup>2)</sup>	X- and Y-Axis		±0.01mm	±0.01mm	±0.015mm	±0.015mm
	Z-Axis		±0.01mm	±0.01mm	±0.01mm	±0.01mm
	R-Axis		±0.01°	±0.01°	±0.01°	±0.01°
Standard Cycle Time <sup>3)</sup>		When carrying 1kg of workpiece	0.39sec	0.38sec	0.39sec	0.41sec
Machine Weight			27kg	27kg	28kg	29kg
Control Box Weight			20kg			
Drive Method			AC servomotor			
Control Method			PTP (Point to Point) control, CP (Continuous Path) control			
Interpolating Function			3-Dimensional Line and Arc Interpolation			
Position Detection			Absolute Encoder			
Teaching Method			Remote Teaching (JOG) / Manual Data Input (MDI) / Direct Teaching			
Teaching System			JANOME's original software JR C-Points: Simple and broad-use teaching system			
			● Simple: Easy teaching just by registering positions and parameters			
			Optional system programs are available for basic operations and various applications.*			
Teaching Pattern			● Broad-use: User-oriented programming including I/O control using point job commands			
			● Programming by teaching pendant (optional)			
			● Off line teaching using optional JR C-Points (PC software) via PC			
Programming Capacity			● On line teaching using optional JR C-Points (PC software) via PC			
			255 programs			
			Maximum 30,000 points			
Data Memory Capacity <sup>4)</sup>			Maximum 1,000 steps			
Simple Sequencer			RS422 1ch (for teaching pendant)			
			RS232C 1ch (for PC: COM1)			
			RS232C 2ch (for external devices: COM2, COM3)			
External Serial Interface			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)			
Tool Wiring and Piping			14 wires for signals, 4 air pipes: Φ4			
Power Supply			AC180~250V (single phase)			
Power Capacity			950VA		1,050VA	
Working Ambience	Ambient Temperature		0~40°C			
	Relative Humidity		20~90% (non-condensing)			

\*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.

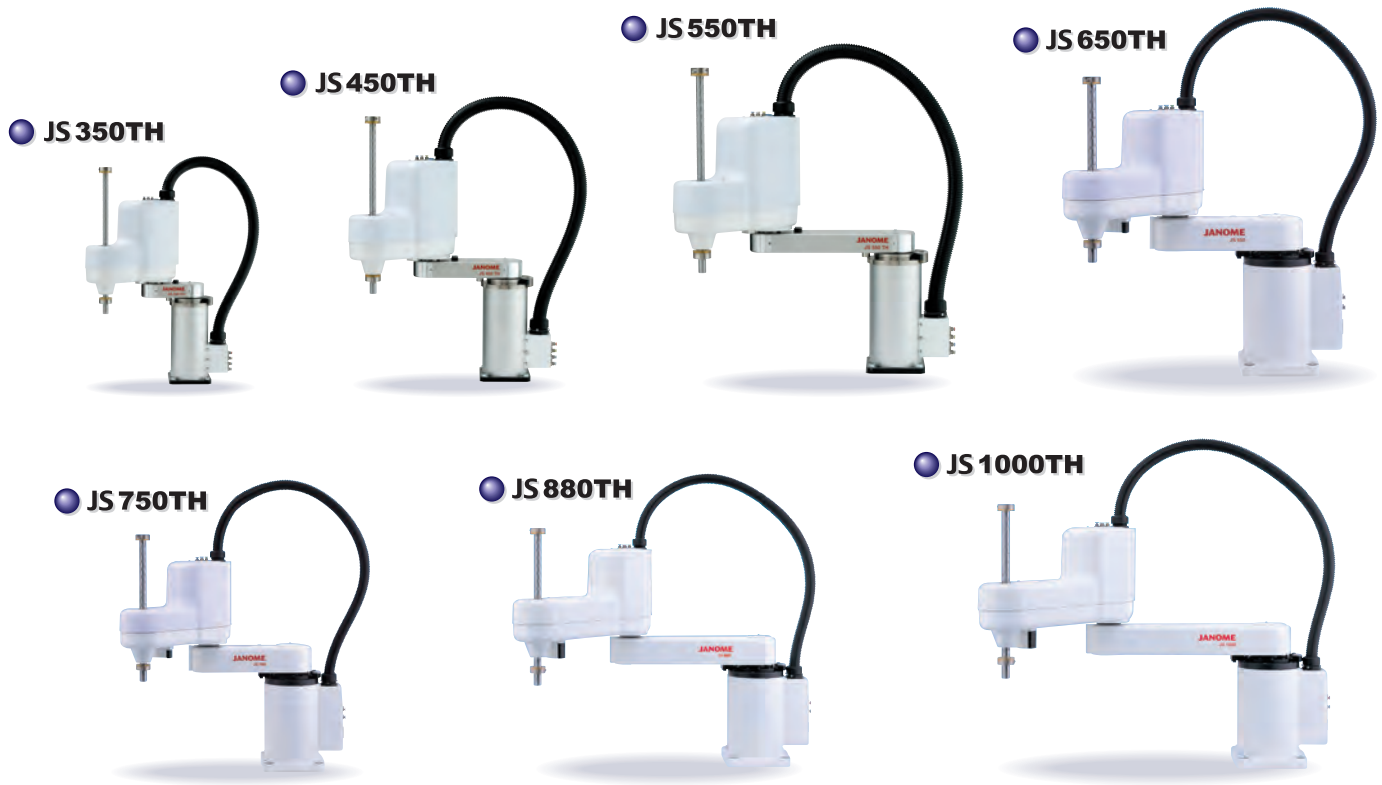
\*3: Measured on a machine with regenerative resistors. Continuous operation cannot be achieved at the maximum cycle time.

\*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.

● The specifications may be modified without prior notice to improve quality.

# JSTH series



## JSTH series Specifications

Model		JS350TH	JS450TH	JS550TH	JS650TH	JS750TH	JS880TH	JS1000TH
Item		4 (synchronous control)						
Axis Type								
Arm Length	J1 Arm	125mm	225mm	325mm	300mm	400mm	400mm	520mm
	J2 Arm	225mm	225mm	225mm	350mm	350mm	480mm	480mm
	J1+J2	350mm	450mm	550mm	650mm	750mm	880mm	1000mm
Operation Range	J1 Arm	±130°	±130°	±130°	±130°	±130°	±130°	±130°
	J2 Arm	±150°	±150°	±150°	±150°	±150°	±160°	±160°
	Z-Axis	200mm	200mm	200mm	200mm	200mm	200mm	200mm
	R-Axis	±360°	±360°	±360°	±360°	±360°	±360°	±360°
Maximum Portable Weight		6kg	6kg	6kg	20kg	20kg	20kg	20kg
Acceptable Moment of Inertia		0.1kg·m <sup>2</sup>	0.1kg·m <sup>2</sup>	0.1kg·m <sup>2</sup>	0.2kg·m <sup>2</sup>	0.2kg·m <sup>2</sup>	0.2kg·m <sup>2</sup>	0.2kg·m <sup>2</sup>
Maximum Speed <sup>1</sup>	J1 and J2 (combined)	6,300mm/sec	5,600mm/sec	6,200mm/sec	6,700mm/sec	7,200mm/sec	6,500mm/sec	7,000mm/sec
	Z-Axis	1,800mm/sec	1,800mm/sec	1,800mm/sec	2,000mm/sec	2,000mm/sec	2,000mm/sec	2,000mm/sec
	R-Axis	1,900°/sec	1,900°/sec	1,900°/sec	1,800°/sec	1,800°/sec	1,800°/sec	1,800°/sec
Repeatability <sup>2</sup>	X- and Y-Axis	±0.01mm	±0.015mm	±0.015mm	±0.02mm	±0.02mm	±0.025mm	±0.025mm
	Z-Axis	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm
	R-Axis	±0.01°	±0.01°	±0.01°	±0.01°	±0.01°	±0.01°	±0.01°
Standard Cycle Time <sup>3</sup>		-	-	-	-	-	-	-
When carrying 1kg of workpiece		0.43sec	0.45sec	0.43sec	0.44sec	0.46sec	0.47sec	0.50sec
When carrying 2kg of workpiece								
Machine Weight		30kg	31kg	32kg	65kg	67kg	68kg	70kg
Control Box Weight		27kg						
Drive Method		AC servomotor						
Control Method		PTP (Point to Point) control, CP (Continuous Path) control						
Interpolating Function		3-Dimensional Line and Arc Interpolation						
Position Detection		Absolute Encoder						
Teaching Method		Remote Teaching (JOG) /Manual Data Input (MDI) /Direct Teaching						
Teaching System		JANOME's original software JR C-Points: Simple and broad-use teaching system						
		●Simple: Easy teaching just by registering positions and parameters						
		Optional system programs are available for basic operations and various applications.						
Teaching Pattern		●Broad-use: User-oriented programming including I/O control using point job commands						
		●Programming by teaching pendant (optional)						
		●Off line teaching using optional JR C-Points (PC software) via PC						
Programming Capacity		255 programs						
Data Memory Capacity <sup>4</sup>		Maximum 30,000 points						
Simple Sequencer		Maximum 1,000 steps						
External Serial Interface		RS422 1ch (for teaching pendant)						
		RS232C 1ch (for PC: COM1)						
		RS232C 2ch (for external devices: COM2, COM3)						
External Input/Output <sup>5</sup>		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)						
Tool Wiring and Piping		14 wires for signals, 4 air pipes: Φ4				14 wires for signals, 4 air pipes: Φ6		
Power Supply		AC180~250V (single phase)						
Power Capacity		1,050VA				1,900VA		
Working Ambience	Ambient Temperature	0~40℃						
	Relative Humidity	20~90% (non-condensing)						

\*1: Measured on a machine with regenerative resistors. Maximum speed cannot be achieved under the maximum portable weight setting.

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