



Integrated Dispensing Solutions 5311 Derry Drive Blding D
Agoura Hills CA 91301 Phone (818) 597-4300
Fax (818) 597-4301 Web: www.dispensinglink.com

Servo SCARA Specifications

Model number	JS250-G(GP)	JS350-G(GP)	JS450-G(GP)	JS550-G(GP)
Axis	4	4	4	4
Arm length				
J1 arm	100mm	125mm	225mm	325mm
J2 arm	150mm	225mm	225mm	225mm
J1 + J2	250mm	350mm	450mm	550mm
Range of operation				
J1 arm	±130°	±130°	±130°	±130°
J2 arm	±145°	±150°	±145°	±150°
Z axis	150mm	150mm	150mm	150mm
R axis	±360°	±360°	±360°	±360°
Portable weight	4kg	6kg	6kg	6kg
Permissible inertia moment	0.1kg _m ²	0.1kg _m ²	0.1kg _m ²	0.1kg _m ²
Maximum speed				
J1, J2 combination	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 accuracy				
X, Y axes	±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	0.39sec (1kg)	0.38sec (1kg)	0.39sec (1kg)	0.41sec (1kg)
Position detection system	Absolute encoder			
Control method	PTP control, CP control			
Interpolation function	3-dimensional straight line/circle interpolation			
Teaching method	Direct teaching/Remote teaching/MDI teaching			
Program language	JR Points (enhanced version)			
Program capacity	255 programs, 30,000 points			
External interface	(Input/Output) In 37 / Out 40 (6 relay contact)			
RS232C	3 ports			
Interlock	Interlock signal			
Wiring and piping for tools	Wiring 14 signals, Piping 4 pcs.			
Sequencer function	100 programs			
Load aberrance detection	It is dependent on a servomotor			
Aberrance detection	Self-diagnostic function			
Power	AC180 - 250V (single phase)			
Power supply capacity	950VA	1050VA		
Ambient temperature	0 - 40°C			
Relative humidity	20 - 95% no condensation			
Weight (robot/control box)	27kg / 20kg	27kg/20kg	28kg / 20kg	29kg/20kg

- * Repeatability is scaled under the constant temperature.
- * Repeatability is not absolute position accuracy.
- * Repeatability is scaled depending on JISB6432-1993 (ISO9283-1990) standard.
- * The maximum speed can be achieved under the maximum portable weight.
- * You cannot continuously operate at maximum cycle time.