

RV-2FR/2FRL series

Type		Unit	RV-2FR(B)	RV-2FRL(B)
Outside dimensions			RV-2FR	RV-2FRL
Environmental specifications Protection degree			IP30(Standard)	
Installation			Floor type, ceiling type, (wall-mounted type *2)	
Structure			Vertical multiple-joint type	
Drive system *1			AC servo motor (J2, J3 and J5: with brake)	
Position detection method			Absolute encoder	
Maximum load capacity		kg	maximum 3 (Rated 2) *5	
Maximum reach radius		mm	504	649
Operating range	J1	deg	480 (-240 to +240)	
	J2		240 (-120 to +120)	237 (-117 to +120)
	J3		160 (-0 to +160)	
	J4		400 (-200 to +200)	
	J5		240 (-120 to +120)	
	J6		720 (-360 to +360)	
Maximum speed	J1	deg/sec	300	225
	J2		150	105
	J3		300	165
	J4		450	412
	J5		450	
	J6		720	
Maximum composite speed *3		sec	4955	4200
Cycle time *4		sec	0.6	0.7
Position repeatability		mm	-0.02 to +0.02	
Ambient temperature		°C	0 to 40	
Mass		kg	19	21
Tolerable moment	J4	Nm	4.17	
	J5		4.17	
	J6		2.45	
Tolerable amount of inertia		J4 kgm ²	0.18	

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	J5		0.18	
	J6		0.04	
Tool wiring			Gripper: 4 input points/4 output points Signal cable for the multi-function gripper	
Tool pneumatic pipes			ø4 x 4	
Machine cable			5m (connector on both ends)	
Connected controller *4			CR800-D, CR800-R	
*1)	The standard model does not have a brake on the J1, J4, or J6 axis. There are models available with brakes included for all axes.			
*2)	The wall-mounted specification is a custom specification where the operating range of the J1-axis is limited.			
*3)	This is the value at the surface of the mechanical interface when all axes are composited.			
*4)	The cycle time is based on back-and-forth movement over a vertical distance of 25 mm and horizontal distance of 300 mm when the load is 1 kg.			
*5)	The maximum load capacity indicates the maximum payload when the mechanical interface is facing downward ($\pm 10^\circ$ to the perpendicular).			