

		Unit	VS-050-S2	VS-087-S2
Number of axis			6	6
Position detection			Absolute encoder	TBA (to be announced)
Drive motor and brake			AC servomotors for all joints, brakes for all joints	TBA
Overall arm length (first arm + second arm)		mm	520 (255 + 265)	875 (445 + 430)
Maximum motion area of point P		mm	520	905
Maximum motion area of point P		mm	183.5	TBA
Motion range	J1	deg	±180 (*3)	TBA
	J2		120, -115	TBA
	J3		141, -115	TBA
	J4		±270	TBA
	J5		±115 (*4)	TBA
	J6		±360	TBA
Maximum payload		kg	4	7
Maximum composite speed (at the center of an end-effector mounting face)		mm/sec	8,570	10,200
Cycle time (*1)		sec	0.35	TBA
Position repeatability (at the center of an end-effector mounting face) (*2)		mm	±0.02	±0.03
Maximum allowable inertia moment	J4, J5	kgm <sup>2</sup>	0.2	TBA
	J6		0.05	TBA
Maximum allowable moment	J4, J5	Nm	6.66	TBA
	J6		3.13	TBA
Signal lines & air piping (Option)	Signal line		10 lines (*5, 6)	10 lines (*5, 6)
	Air piping		2 x solenoid valves (2 positions, double solenoids)	2-position double solenoid
Communication Interface Flange-A (Option)			25 (17 + 8) lines (*6)	25 lines (*6)
Air source	Operating pressure	Mpa	0.20~0.39	TBA
	Maximum allowable pressure		0.49	TBA
Airborne noise (A-weighted equivalent continuous sound pressure level)		dB	(65 or less)	TBA
Environment resistance	Operating pressure		Vaporized Hydrogen Peroxide Hydrogen Peroxide 35% water	Vaporized Hydrogen Peroxide Hydrogen Peroxide 35% water
	Maximum allowable pressure		IP65	IP65
	Cleanroom class		ISO 5	ISO 5
Weight		kg	Approx. 38	TBA

\*1. Time required for a robot to lift an object to a height of 25 mm and move back and forth between two locations 300 mm apart.

\*2. Position repeatability is the value at constant ambient temperature.

\*3. Limited motion when wall mounted.

\*4. When electric gripper interface Flange-A is additionally selected, J5 moves between angles +110 and -105 degrees.

\*5. When electric gripper interface Flange-A is additionally selected, four signal lines (for proximity sensor signals etc.) will be used.

\*6. Subject to allowable-current limitations.

Note: All the information contained here is for reference purposes only. Information in this document is subject to change without previous notice. Please get in contact with us for further information.