

VS-G Series

Specifications : Cleanroom model

Item		Cleanroom model				Cleanroom model with brakes			
Model name of robot set (Note 1)		VS-6556G-P10	VS-6556G-P100	VS-6577G-P10	VS-6577G-P100	VS-6556G-BP10	VS-6556G-BP100	VS-6577G-BP10	VS-6577G-BP100
Model name of robot unit		VS-6556GM-P10	VS-6556GM-P100	VS-6577GM-P10	VS-6577GM-P100	VS-6556GM-BP10	VS-6556GM-BP100	VS-6577GM-BP10	VS-6577GM-BP100
Overall arm length		270(first arm)+295(second arm)=565mm		365(first arm)+405(second arm)=770mm		270(first arm)+295(second arm)=565mm		365(first arm)+405(second arm)=770mm	
Arm offset		J1(swing) : 75mm J3(front arm) : 90mm							
Maximum motion area		R=733mm(end-effector mounting face) R=653mm(Point P : J4, J5, J6 center)		R=934mm(end-effector mounting face) R=854mm(Point P : J4, J5, J6 center)		R=733mm(end-effector mounting face) R=653mm(Point P : J4, J5, J6 center)		R=934mm(end-effector mounting face) R=854mm(Point P : J4, J5, J6 center)	
Motion angle		J1 : ±170°, J2 : + 135°, - 100°, J3 : +166°, - 119°, J4 : ±190°, J5 : ±120°, J6 : ±360°		J1 : ±170°, J2 : + 135°, - 100°, J3 : +169°, - 119°, J4 : ±190°, J5 : ±120°, J6 : ±360°		J1 : ±170°, J2 : + 135°, - 100°, J3 : +166°, - 119°, J4 : ±190°, J5 : ±120°, J6 : ±360°		J1 : ±170°, J2 : + 135°, - 100°, J3 : +169°, - 119°, J4 : ±190°, J5 : ±120°, J6 : ±360°	
Maximum payload		6kg(7kg at wrist direction downward)							
Maximum composite speed		8200mm/s (at the center of an end-effector mounting face)		7600mm/s (at the center of an end-effector mounting face)		8200mm/s (at the center of an end-effector mounting face)		7600mm/s (at the center of an end-effector mounting face)	
Position repeatability (Note 2)		In each of X, Y and Z directions : ±0.02mm (at the center of an end-effector mounting face)		In each of X, Y and Z directions : ±0.03mm (at the center of an end-effector mounting face)		In each of X, Y and Z directions : ±0.02mm (at the center of an end-effector mounting face)		In each of X, Y and Z directions : ±0.03mm (at the center of an end-effector mounting face)	
Maximum allowable inertia moment		0.413kgm ² for around J4 and J5, 0.063kgm ² for around J6							
Position detection		Absolute encoder							
Drive motor and brake		AC servomotors for all joints, Brakes for joints J2 to J4				AC servomotors for all joints, Brakes for joints J2 to J6			
User air piping		6 systems(φ4x6), 3 solenoid valves (2-position, double solenoid)							
User signal line		10(for proximity sensor signals, etc.)							
Air source	Operating pressure	1.0 x 10 ⁵ Pa to 3.9 x 10 ⁵ Pa							
	Maximum allowable pressure	4.9 x 10 ⁵ Pa							
Clean class (FED-STD-209D)		class10(0.1μ) (at point-of-use)	class100(0.3μ) (at point-of-use)	class10(0.1μ) (at point-of-use)	class100(0.3μ) (at point-of-use)	class10(0.1μ) (at point-of-use)	class100(0.3μ) (at point-of-use)	class10(0.1μ) (at point-of-use)	class100(0.3μ) (at point-of-use)
Airborne noise		80 dB or less (A-weighted equipment continuous sound pressure level)							
Weight		approx. 35 kg (77 lb)		approx. 36 kg (78 lb)		approx. 35 kg (77 lb)		approx. 36 kg (78 lb)	

Note 1 : The model name of robot set refers to the model name of a complete set including a robot unit, controller.