

VS-G Series

Specifications : Dust & Mistproof model / UL-listed

Item		Dust & Mistproof model with brakes / UL-listed	
Model name of robot set (Note 1)		VS-6556G-BW-UL	VS-6577G-BW-UL
Model name of robot unit		VS-6556GM-BW-UL	VS-6577GM-BW-UL
Overall arm length		270(first arm)+295(second arm)=565mm	365(first arm)+405(second arm)=770mm
Arm offset		J1(swing) : 75mm J3(front arm) : 90mm	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)
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°
Maximum payload		5kg	
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)
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)
Maximum allowable inertia moment		Around J4, J5 : 0.295kgm ² Around J6 : 0.045kgm ²	
Position detection		Absolute encoder	
Drive motor and brake		AC servomotors and brakes for all joints	
Brake releasing (Axis selector and Brake release switch)		(1) Press the brake release switch for selected axis when the controller power is ON. (2) The teach pendant or mini-pendant cannot release the brakes.	
User air piping (Note 3)		7 systems(φ4x6,φ6x1), 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	
Degree of protection		IP54(Wrist : IP65)	
Airborne noise		80 dB or less (A-weighted equipment continuous sound pressure level)	
Weight		approx. 35 kg (76 lb)	approx. 36 kg (80 lb)

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

Note 2 : Position repeatability is the value at constant ambient temperature.

Note 3 : Only the φ4x6 air piping system can be controlled by built-in solenoid valves.