

HS-G Series

Specifications : Cleanroom model

Item		Cleanroom model		
Model name of robot set (Note 1)		HS-4535*G-P10	HS-4545*G-P10	HS-4555*G-P10
Model name of robot unit		HS-4535*GM-P10	HS-4545*GM-P10	HS-4555*GM-P10
Overall arm length		125(J1:first arm) + 225(J2:second arm) = 350mm	225(J1:first arm) + 225(J2:second arm) = 450mm	325(J1:first arm) + 225(J2:second arm) = 550mm
Motion angle and stroke	J1(1st axis)	±155°		
	J2(2nd axis)	±145°		
	Z(3rd axis)(*)	* = 2 : 200mm, * = 3 : 320mm		
	T(4th axis)	±360°		
Axis combination		J1(1st axis) + J2(2nd axis) + Z(3rd axis) + T(4th axis)		
Maximum payload		5kg		
Maximum composite speed	At the center of the hand mounting flange	7,200mm/s	6,300mm/s	7,100mm/s
	Z and T	Z(3rd axis) : 2,000mm/s T(4th axis) : 2,400°/s		
Position repeatability(at the constant ambient temperature)	J1+J2	±0.015mm	±0.02mm	±0.02mm
	Z	±0.01mm		
	T	±0.005°		
Maximum force-fit		98N(one second or less)		
Maximum allowable inertia moment		0.1kgm ² (payload 5kg)		
Position detection		Absolute encoder		
Drive motor and brake		AC servomotors for all joints, Brakes for Z, T-axis		
Brake releasing		(1) Press the brake release switch in the direct teaching mode. (2) Enter a brake release command with the teach pendant or mini-pendant.		
User air piping		4 systems (φ4 x 2, φ6 x 2)		
User signal line		19(for proximity sensor signals, etc.)		
Air source	Operating pressure	0.05 to 0.35MPa		
	Maximum allowable pressure	0.59MPa		
Clean class (FED-SID-209D)		class10(0.1μ)at point-of-use		
Weight		approx. 25 kg (55 lb) (Note : for the value of each model, refer to the nameplate)		

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

An asterisk * in model names denotes the Z-axis stroke.