

**HS-G Series**
**Specifications : Basic model / Overhead-mount**

Item		Basic model / Overhead-mount	
Model name of robot set (Note 1)		HSS-4545*G	HSS-4555*G
Model name of robot unit		HSS-4545*GM	HSS-4555*GM
Overall arm length		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)	J1(1st axis) : ±152	J1(1st axis) : ±155°
	J2(2nd axis)	J2(2nd axis) : ±141°	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	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	±0.02mm	±0.02mm
	Z	±0.01mm	
	T	±0.005°	
Maximum force-fit		98N(one second or less)	
Maximum allowable inertia moment		0.1kgm <sup>2</sup> (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	
Weight		approx. 25kg (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.