

VP-6242

Following table list the robot unit specifications of the VP series.

Item		Specifications
		6-axis type
Model name of robot set (*1)		VP-6242
Model name of robot unit		VP-6242M
Overall arm length		210 (first arm) + 210 (second arm) = 420 mm
Arm offset		J3 (front arm): 75 mm
Maximum motion area		R = 502 mm (end-effector mounting face) R = 432 mm (Point P: J4, J5, J6 center)
Motion range		J1 : $\pm 160^\circ$ J2 : $\pm 120^\circ$ J3 : $+160^\circ$, $+19^\circ$ J4 : $\pm 160^\circ$ J5 : $\pm 120^\circ$ J6 : $\pm 360^\circ$
Maximum payload		2 kg (2.5 kg at wrist direction downward)
Maximum composite speed		3900 mm/s (at the center of an end-effector mounting face)
Position repeatability (*2)		In each of X, Y and Z directions: ± 0.02 mm
Maximum allowable inertia moment		Around J4 and J5: 0.030 kgm^2 Around J6: 0.007 kgm^2
Position detection		Absolute encoder
Drive motor and brake		AC servomotors for all joints, Brakes for all joints
User air piping		4 systems ($\phi 4 \times 4$)
User signal line		9 (for proximity sensor signals, etc.)
Air source	Operating pressure	0.10MPa to 0.39MPa
	Maximum allowable pressure	0.49MPa
Degree of protection		IP30
Airborne noise (A-weighted equivalent continuous sound pressure level)		80 dB or less
Weight		Approx. 15 kg (32 lbs)

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

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