VP SERIES 430 MM



DENSO VP-Series robots are perfect for installations where operational space is limited. Their outstanding features include:

- Excellent repeatability of ±0.02 mm
- Payloads up to 3 kg
- 430-mm reach
- Ultracompact design, with space-saving footprint of only
- 160 x 160 mm, facilitates integration in tight spaces
- Floor- or ceiling-mount, with no special hardware needed
- Exceptionally light weight from only 13 to 24 kg
- Space-saving bottom-side cable connection (VP-G2)
- Low energy consumption, with all motors combined using a maximum of only 300 W
- ANSI and CE compliance alows global deployment
- UL models available for the US and Canada (VP-G2)







VP-6242G



CEILING-MOUNT OPTI

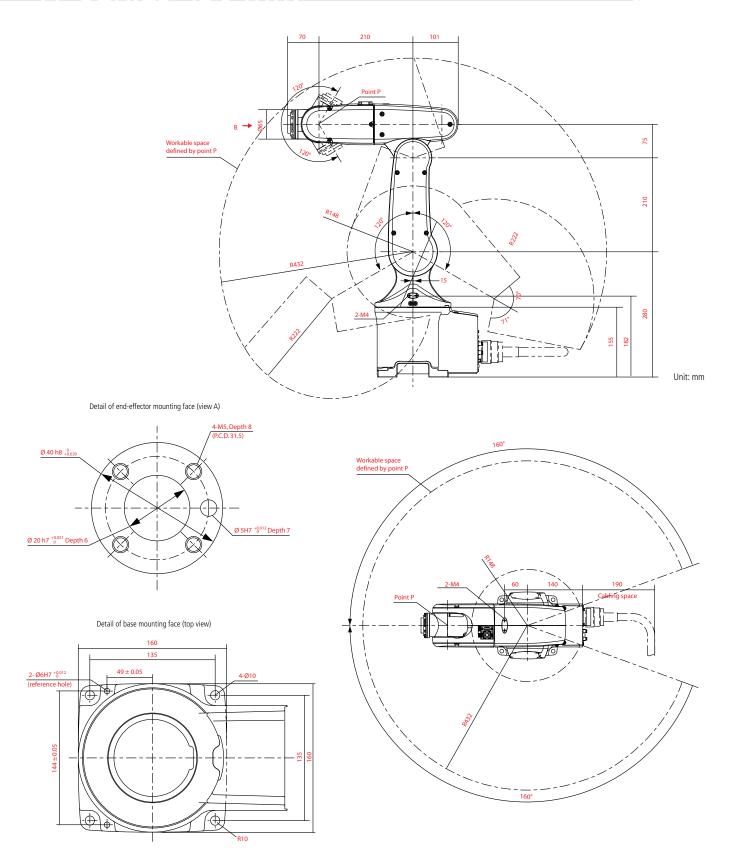


		VP-5243G	VP-6242G	VP-6242G2	VP-6242G2-UL
Number of axes		5	6		
Overall arm length (mm)		430	420		
Second-arm width (mm)		112 122		22	
Reach (to center of 5th axis, mm)		430	432		
Minimum motion area (mm)		162	148		
Maximum payload (kg)		2.5 (3.0 with flange pointing down)	2.0 (2.5 with flange pointing down)	2.0	
Weight, approx. (kg)		13	15	2	4
Footprint (mm)		160 ×	160 200 × 200		< 200
Cycle time (sec.)		0.99 (with 1-kg weight)			
Maximum composite speed (mm/sec.)		3,900			
Maximum joint speed (°/sec.)		J1: 250 J2: 187 J3: 250 J4, J5, J6: 300			
Repeatability ^{1, 2} (mm)		±0.02	±0.02		
Max. allowable moment of inertia (kgm²)	J4	-	0.03		
	J5	0.04		0.03	
	J6	0.01	0.007		
Range of motion (°)	J1	±160			
	J2	±120			
	J3	+136, -128	+160, +19		
	J4	-	±160		
	J5	±120			
	J6	±360			
Position detection		Absolute encoder			
Drive motors and brakes		AC servomotors and brakes for all axes			
Air piping (in-arm integrated)		4 systems (ø4 × 4)			
Wiring (in-arm integrated)		9 lines (max. 1 A per line) 16 lines (max. 1 A per line)		. 1 A per line)	
Air source	Operating pressure	1.0 × 10 ⁵ Pa to 3.9 × 10 ⁵ Pa			
	Maximum allowable pressure	4.9 × 10 ⁵ Pa			
Protection class		IP30			
Ceiling-mount		1		-	-



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DENSO ROBOTICS

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