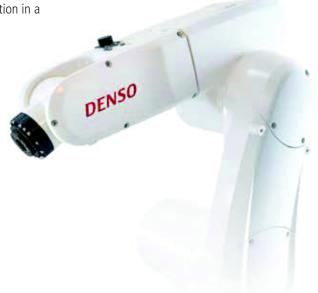


The VS-6556/6577 robots provide high speed and high power in a slim, compact body. A variety of options are available that allow operation in a range of environments.

- Fast cycle times from 0.59 to 0.49 sec
- Excellent repeatability from ±0.02 to ±0.03 mm
- Payloads up to 7 kg
- High maximum allowable moment of inertia
- Compact design saves floor space, facilitates integration
- Floor- or ceiling-mount, with no special hardware required
- Maximum composite speed: from 7,600 mm/s up to 8,200 mm/s
- Operation in dusty and wet environments (IP65 option)
- Operation in cleanrooms (ISO 4 or 5 option)
- ANSI and CE compliance allows global deployment



Specifications

	VS-6556	VS-6577
Number of axes	6	
Overall arm length (mm)	565	770
Second-arm width (mm)	110	
Reach (to center of 5th axis, mm)	653	854
Minimum motion area (mm)	234	242
Maximum payload (kg) ¹	7	
Weight, approx. (kg)	35	36
Footprint (mm × mm)	200 × 200	
Cycle time (sec)	0.49 (with 1 kg weight)	0.59 (with 1 kg weight)
Maximum composite speed (mm/sec)	8,200	7,600
Maximum joint speed (°/sec)	J1: 375 J2: 300 J3: 375 J4: 410 J5: 410 J6: 660	
Repeatability ^{2,3} (mm)	±0.02	±0.03
Maximum allowable moment of inertia (kgm²)	J4, J5: 0.413 J6: 0.063	
Range of motion (°)	J1: ±170 J2: +135, -100 J3: +166, -119 J4: ±190 J5: ±120 J6: ±360	
Position detection	Absolute encoder	
Drive motors and brakes	AC servomotors on all axes; brakes on 2nd, 3rd and 4th axis (5th and 6th axis optional)	
Air piping (in-arm integrated)	10 lines (max. 1 A per line)	
Wiring (in-arm integrated)	7 systems (\emptyset 4 × 6, \emptyset 6 x 1), three 2-position double solenoid valves	
Protection class	Standard: IP40 Options: IP65/54 (wrist/unit) dust- and mistproof, cleanroom ISO 4 and 5	
Ceiling-mount ⁴	✓	

^{1.} If downward movement of wrist and neck exceed ±45°, maximum payload is 6 kg. 2. At constant ambient temperature. 3. In all directions.

VS-6556



VS-6577

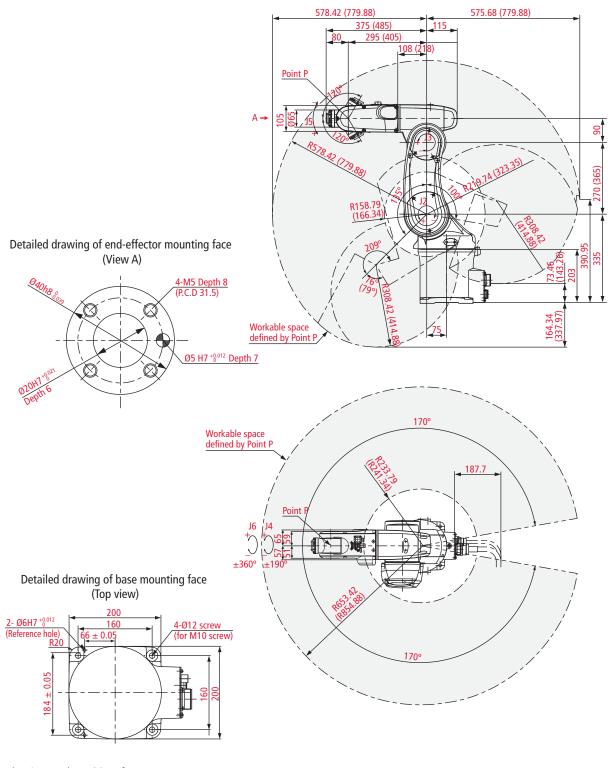


CEILING-MOUNT OPTION



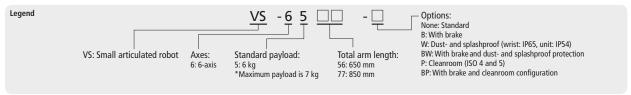
^{4.} All except cleanroom models, which can be floor-mounted only.

External Dimensions and Workable Space [VS-6556-B]



Values in parentheses () are for VS-6577.

Unit: mm



The data on this page is for standard models. For other options, visit our website at www.densorobotics.com.