

Technical Specifications VS-6556/6577

Standard Type

Item		Standard type	
Model name of robot unit		VS-6556	VS-6577
Axes		6	
Position detection method		Absolute encoder	
Drive motor / brake		All-axis AC servo motor / J2 to J4 with brakes (Brake expansion type: J2 to J6 with brakes)	
Total arm length (No. 1 arm + No. 2 arm)		565(270+295)mm	770(365+405)mm
Arm offset	J1 (Rotation)	75mm	
	J3 (Forearm)	90mm	
Maximum motion area (Point P)		653mm	854mm
Motion range	J1 (No.1 axis)	±170°	
	J2 (No.2 axis)	+135°, -100°	
	J3 (No.3 axis)	+166°, -119°	+169°, -119°
	J4 (No.4 axis)	±190°	
	J5 (No.5 axis)	±120°	
	J6 (No.6 axis)	±360°	
Maximum payload		7kg(Within a downward wrist angle of movement of ±45°) (*4)	
Maximum joint speed	J1	262.5deg/sec	175deg/sec
	J2	240deg/sec	200deg/sec
	J3	300deg/sec	200deg/sec
	J4	300deg/sec	
	J5	300deg/sec	
	J6	480deg/sec	
Cycle time(*1)		0.49sec	0.59sec
Position repeatability (center of end-effector mounting face) (*1,2)		±0.02mm	±0.03mm
Maximum allowable moment of inertia	J4,J5	0.413kgm ²	
	J6	0.063kgm ²	
User air pipe(3)		7 systems(φ4x6、φ6x1) Solenoid valve (2 position, double solenoid) × 3	
User signal line		10(for proximity sensor signals, etc.)	
Air source	Normal pressure	0.10 to 0.39MPa	
	Maximum allowable pressure	0.49MPa	
Airborne noise (equivalent continuous A-weighted sound pressure level)		80dB or less	
Protection grade		Dust & splash proof type : wrist IP65 / unit IP54 (option) Cleanroom type: class 10/100 (Option)	
Weight		Approx. 35kg	Approx. 36kg

1. Time required for a robot to move a 1 kg payload between two points 300 mm apart at a height of 25 mm.

2. Position repeatability is the precision at constant ambient temperature.

3. Controllable by use of the embedded solenoid valve only for φ4×6.

4. If wrist downward movement exceeds ±45°, the maximum payload is 6 kg.

Standard Components

Group	Item	Q'ty
Robot & Accessories	Robot unit	1
	Motor & encoder cable (option)	1
	Sheet of direction indicator labels	1
	Connector set for hand control signals (for CN20 and CN21)	1set
Controller & Accessories	Robot controller	1
	Power cable (5 m)	1
	Pendantless connector (Dummy connector)	1
	Cable clamp	1
Software etc	WINCAPS III trial version installer disc	1
	Manuals ("Manual Pack disc" and "Safety Precautions")	1set
	Warning label	1