



HIGH CAPACITY 6-AXIS ROBOTS RV-35F / RV-50F / RV-70F

Product Overview



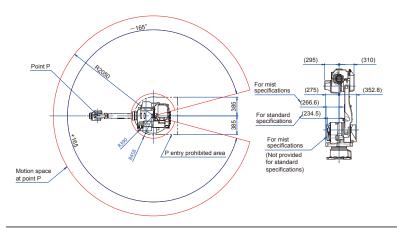
The RV-35F, RV-50F, and RV-70F robots from Mitsubishi Electric provide users with the heavy duty capabilities that many of today's manufacturing processes require. Commanded by the powerful MEFLA Basic V programming language, and coupled with the optional iQ control platform, these high capacity robots are as intelligent as they are strong.

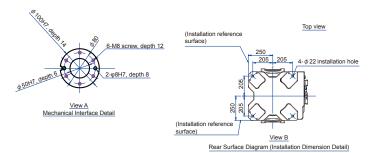
KEY BENEFITS:

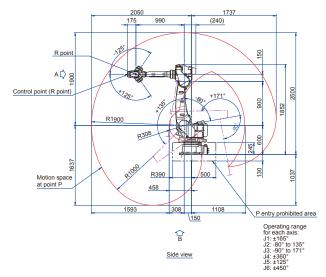
- **Higher payloads** Allows applications that require heavier parts and tooling to be robotically automated
- Long reach arm With the ability to extend up to 2050mm, robot tasks can be spread further apart and can accommodate larger parts and processes
- Seamless integration with the MELFA hardware ecosystem Easily connect to the industry's most extensive offering of integrated automation products
- Multiple environmental protection ratings Available in IP40 & IP67 protection ratings to conform to various application requirements.
- 3 year on-site warranty* Peace of mind with the industry's best initial warranty. (*Units purchased in North America only)



OPERATING RANGE DIAGRAM — **EXTERNAL DIMENSIONS**







Operable range

- 1. For $11^{\circ} \le J2 < 56^{\circ}$, $J3 \le [170.5 \{(1/6) * (J2 8)\}]^{\circ}$
- 2. For J3 \geq 56°, the point P shall not enter the operable range limit area 3. For J3 \geq 162.5°, J2 \leq 1031 6 \times J3°
- 4. For $J2 \ge 130^{\circ}$, $J1 \le 110^{\circ}$, or for $J1 > 110^{\circ}$, $J2 \le 130^{\circ}$

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STANDARD SPECIFICATIONS

Model Number	RV-	35F(M)	50F(M)	70F(M)
Protection		J1 to J4:IP40, J5 to J6:IP67 (standard)/ IP67 (oil mist) (*1)		
Installation		Floor type		
Degrees of Freedom		6		
Payload		35	50	70
Arm Length (NO1 Arm)		900 + 990		
Maximum Reach Radius		2050		
Operating Range (deg)	J1	330 (±165)		
	J2	215 (-80 to +135)		
	J3	261 (-90 to +171)		
	J4	720 (±360)		
	J5	250 (±125)		
	J6	900 (±450)		
Maximum Speed (deg/sec)	J1	185	180	175
	J2	180	180	145
	J3	190	180	165
	J4	305	255	235
	J5	305	255	235
	J6	420	370	350
Maximum Composite Speed (*2) (mm/sec)		13450	13000	11500
Position Repeatability (mm)		±0.07		
Connected Controller		CR760-D/Q		

- 1. Please contact Mitsubishi Electric dealer since the environmental resistance may not be secured depending on the characteristics
- 2. This is the value at the surface of the mechanical interface when all axes are composited.