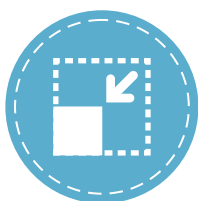


FACTORY AUTOMATION

MITSUBISHI ELECTRIC

Industrial Robot

RV-20FRL Series



Compact 20 kg Payload Robot

- Industry's **smallest** ^{*1} class for external dimensions
- **Efficient** installation in limited spaces



High Allowable Moment Load and Inertia

- **Suppresses** vibrations when a large hand is installed
- Achieves **high-precision** 3-dimensional operation within small equipment and in various postures



ISO class 3 ^{*2}, IP67 ^{*3}, CE Compliant

- Customizable depending on the installation environment
- High quality assurance by **inspecting all products in a clean room**

^{*1}. As of July 2025 (according to our research)

^{*2}. With clean specifications

^{*3}. With oil mist specifications

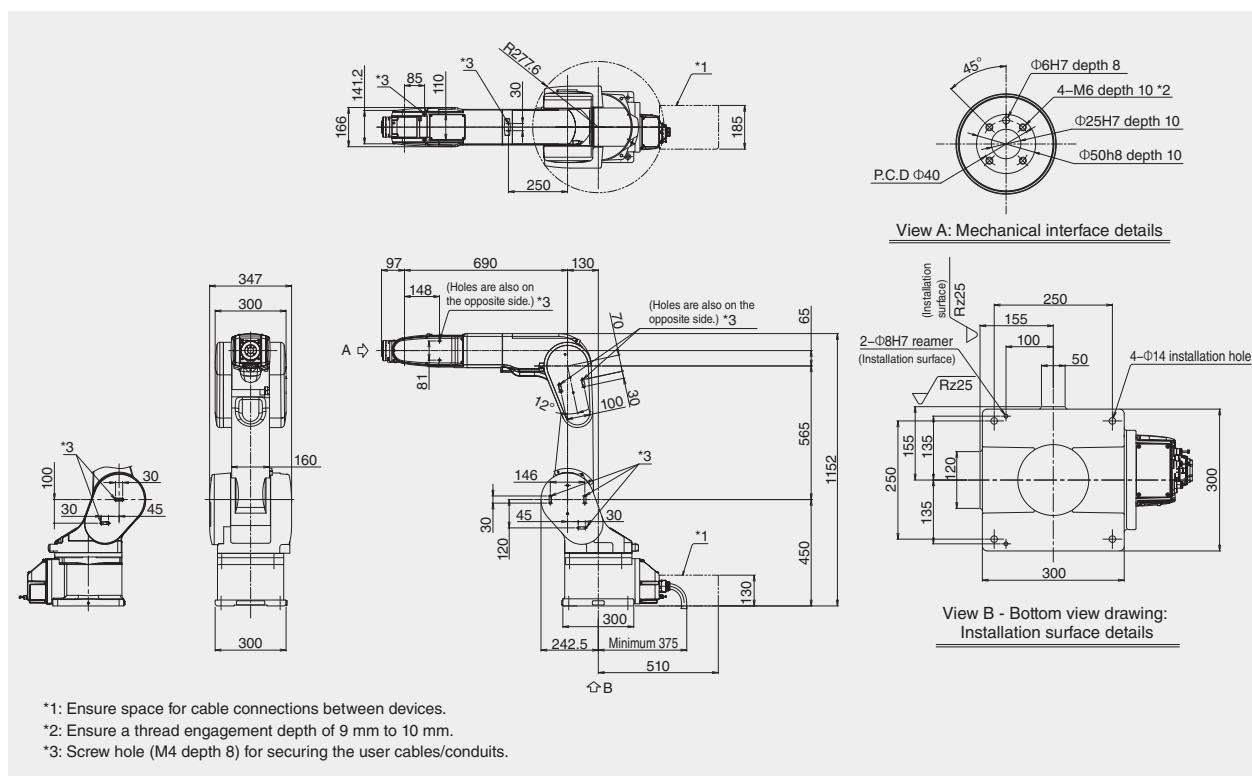
Specifications

Item	Unit	RV-20FRL	RV-20FRLC	RV-20FRLM
Environment		Standard (IP40)	Clean (ISO class 3)	Oil mist (IP67)
Compatible controller		CR800-D/R		
Installation posture		On floor, hanging, and against wall *1		
Degree of freedom		6		
Mass	kg	130		
Load	kg	Maximum 20 (rating 15) *2		
Maximum reach radius	mm	1388		
Allowable moment	N·m	J4:49.0 , J5:49.0 , J6:11.0		
Allowable inertia	kgm ²	J4:1.4 , J5:1.4 , J6:0.86		
Pose repeatability	mm	±0.05		
Speed of motion	°/s	J1:165 , J2:110 , J3:165 J4:124 , J5:125 , J6:112		
Ambient temperature	°C	0~40		

*1: When mounted against a wall, a special specification that limits the operating range of the J1 axis will be used. Please inquire separately.

*2: The maximum load is the load that can be carried when the posture of the mechanical interface is restricted downward (less than ±10% to a vertical direction).

External dimensions



MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN