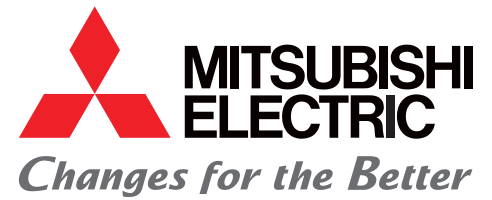




for a greener tomorrow



RV-FR VERTICAL SIX-AXIS ROBOT

Product Overview



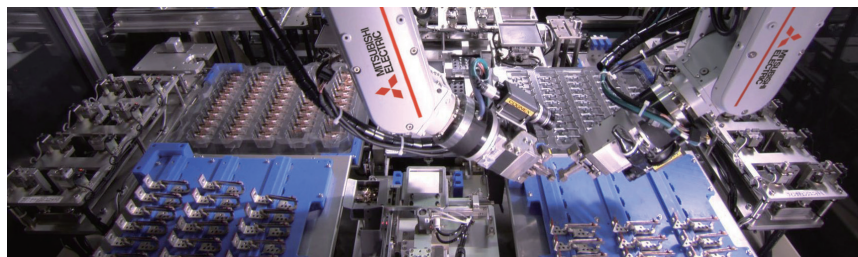
INDUSTRY'S
BEST
INITIAL
WARRANTY

3 YEARS FOR ALL NEW REGISTERED ROBOTS

With consumer needs rapidly evolving towards increased diversification and reduced time to market, today's manufacturers face a time of considerable change. It is no longer enough for industrial robots to simply perform a single task. The RV-FR Series vertical six-axis robot provides new, intelligent solutions, offering a simple approach to advanced and flexible production.

KEY BENEFITS:

- **Robot Diamond Assurance™** – Protect your robot investment with Robot Diamond Assurance, our extended preventive maintenance program. With regular, proper maintenance from Mitsubishi Electric factory trained technicians, obtain increased uptime and fewer repair costs.
- **Internal pneumatic and electrical connections** – Easily connect to a large range of peripheral devices, from 3D vision systems to padding modules.
- **Next generation intelligent functions** – Carry out more complex tasks with intelligent technology, such as enhanced vision and force sensors.
- **Safe, collaborative work applications** – Allow robots and people to work together in a secure environment with safety add-ons such as area scanners and the MELFA Safe Plus module.
- **Open architecture MELFA Basic IV platform** – Use a powerful, accessible robot operative system that does not require costly software adders.
- **Additional axis interface** – Eliminate the need for additional motion controllers by directly controlling up to two external 3-axis coordinated servo systems, with up to 8 total servo axes.
- **Remote access capable** – Conveniently monitor and control robot operation remotely.
- **Convenient ports, features, and add-ons** – USB 2.0 port for quick PC connection, SD memory card slot for data logging, and battery free controller provides a worry-free solution to program storage to eliminate waste.



RV-FR Vertical Six-Axis Product Overview

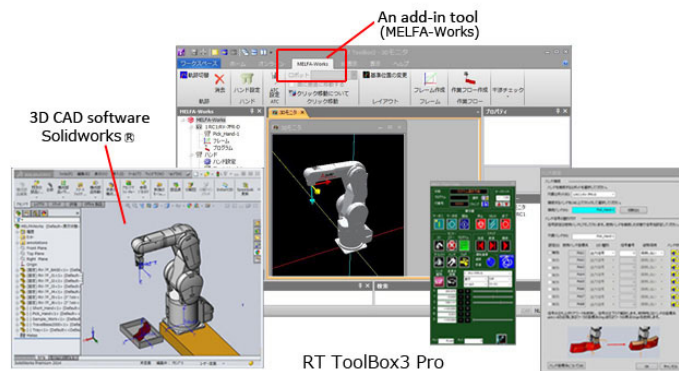
BROAD SIZE LINEUP

RV-FR robots are available in load capacities from 2kg to 20kg, with reach radii ranging from 504mm to 1,094mm.

Type	RV-2FR	RV-2FRL	RV-4FR	RV-4FRL	RV-7FR	RV-7FRL	RV-7FRL	RV-7FRL	RV-13FR	RV-13FRL	RV-20FR
Maximum Load Capacity	3kg		4kg		7kg				13kg		20kg
Maximum Load Radius	504 mm	649 mm	515 mm	649 mm	713 mm	908 mm		1503 mm	1094 mm	1388 mm	1094 mm
Environmental Specifications	Standard(IP30)			Standard (IP30), Oil mist (IP67), Clean (ISO class 3)							
Controller	CR800-R, CR800-D										

RT TOOLBOX3 PRO: ADVANCED 3D ROBOT SIMULATOR

RT ToolBox3 PRO is a 3D robot simulator that provides powerful support for system designs and preliminary layout examinations. It allows robot simulations to be run in SolidWorks® 3D CAD software. Programs can be created to match today's era of high-mix, low-volume production, such as for layout considerations prior to introducing robots, desktop program debugging, and generation of complex motion paths.



SPECIFICATIONS

Vertically Articulated (RV)

Model Number	RV2FR	RV2FL	RV4FR	RV4FRL	RV7FR	RV7FRL	RV7FRL	RV13FR	RV13FRL	RV20FR
Maximum Load Capacity (kg)	2	2	4	4	7	7	7	13	13	20
Maximum Reach Radius (mm)	504	649	515	649	713	908	1,503	1,094	1,388	1,094
Environmental Specifications	Standard	IP30		IP40						
	Oil Mist	-		IP67						
	Cleanroom	-		ISO class3						
Controller	CR800-R, CR800-D									

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