

F Series Robots

SCARA and Vertically
Articulated



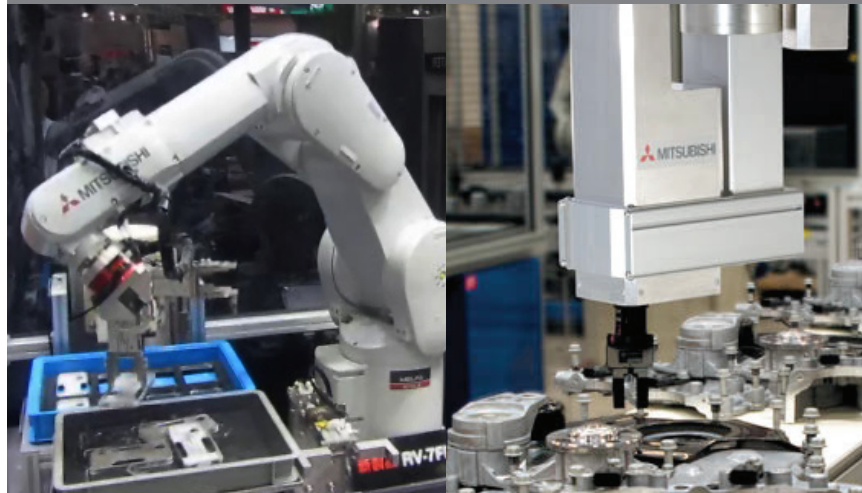
F-Series Robots

The F Series offers class leading speed, precision and ease of integration. All units are built to comply with ANSI/RIA/ISO 10218-1-2007 safety standards and are available in CE models for global acceptance. A long list of standard features makes this series a perfect choice for applications across many industries.

SCARA type robots are available in ISO3 clean room and mist-proof versions. Payloads range from 3Kg to 20Kg with 350mm to 1000mm reaches.

Vertically Articulated type robots are available in ISO3 clean room and mist-proof versions. Payloads range from 2KG to 20KG with 504mm to 1503mm reaches.

All Mitsubishi robots come with a full two year parts and labor warranty.



Key Standard Features

- 64 Bit RISC Processing - faster, more precise moves and execution
- Singularity Avoidance - ease of programming in areas of singularity
- Built-in Collision Detection - safety and cost savings
- Compliance Control - user-defined path forgiveness
- Multi-Task Programming - allows tasks to be easily separated and programmed
- Single programming software package for all robot types - efficient program development
- Plug and play interface to Cognex cameras
- Additional axis interface - plug and play SSCNETIII connection to MR-J4 servos
- Serial encoder interface - 2 channels for conveyor tracking
- Ethernet communication port - easy integration to vision or other accessories
- USB and RS232 - quick connect to PC



Vertically Articulated (RV)

Model Number	RV-2F	RV-4F	RV-4FL	RV-7F	RV-7FL	RV-7FLL	RV-13F	RV-13FL	RV20F
Maximum Load Capacity (kg)	2	4	4	7	7	7	13	13	20
Maximum Reach Radius (mm)	504	515	649	713	908	1,503	1,094	1,388	1,094
Environmental Specifications	Standard	IP30	IP40	IP40	IP40	IP40	IP40	IP40	IP40
	Oil Mist	-	IP67	IP67	IP67	IP67	IP67	IP67	IP67
	Clean	-	ISO class3	ISO class3	ISO class3	ISO class3	ISO class3	ISO class3	ISO class3
Controller	CR750-D/Q; CR750-MB IP54 controller protection box available								



Horizontally Articulated SCARA (RH)

Model Number	RH-3SQHR RH-3SDHR	RH-3FH35	RH-3FH45	RH-3FH55	RH-6FH35	RH-6FH45	RH-6FH55	RH-12FH55	RH-12FH70	RH-12FH85	RH-20FH85	RH-20FH100
Maximum Load Capacity (kg)	3	3	3	3	6	6	6	12	12	12	20	20
Maximum Reach Radius (mm)	350	350	450	550	350	450	550	550	700	850	850	1000
Environmental Specifications	Standard	IP20		IP20								
	Oil Mist	-	-	IP65								
	Clean	-	-	ISO class3								
Controller (*1)	CR2QA-7_ _ _ CR2DA-7_ _ _	CR750-D/Q			CR750-D/Q; CR750-MB IP54 controller protection box available							

Note:

1. 7_ _ _ in controller type names differ according to the robot arm.

