

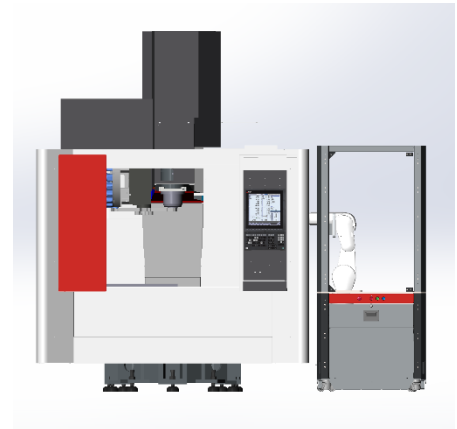


for a greener tomorrow



LoadMate Plus™ Robotic Cell by Mitsubishi Electric

Featuring Mitsubishi Electric's RV-8CRL, RV-7FR, and RV-7FRL Industrial Robot Arms

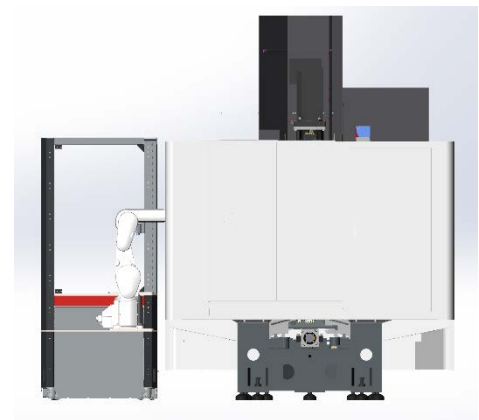


Equipment Description

Introducing the Mitsubishi Electric Machine Tending Robotic Cell for CNC applications. Load, unload, and palletize your parts in any low-to-high volume application.

Uses

This cost-effective robot cell allows for quick & easy setups, high performance & accuracy, safety-first functionality, and maximum portability for job shops and larger scale production environments. Users can also learn the one-step process of integrating the robot cell to a CNC machine using Mitsubishi's Direct Robot Control function – all done with one single Ethernet cable.

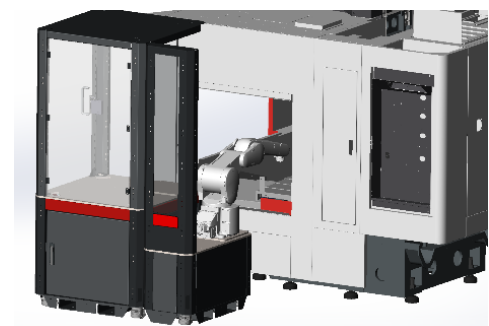


Features

Each configuration includes the robot base, the industrial robot, and a teach pendant (a user will need at least 1 pendant for their facility, but not necessarily 1 per robot).

Benefits

Mitsubishi Electric's Machine Tending Robotic Cell allows you to concentrate on what you do best: produce parts with minimal inefficiency. We take care of the rest: from base design, safety design, and robot mounting to adding custom components. When it arrives, you are ready to start programming and making parts!



Specifications

Robot Specifications

	RV-8CRL	RV-7FR	RV-7FRL
Payload Capacity	8 kg	7 kg	7 kg
Maximum reach	931 mm	713 mm	908 mm
Maximum Composite Speed	10,500 mm/sec	11,604 mm/sec	10,977 mm/sec
Environmental Specifications	Oil mist	Standard/ Oil mist/ Cleanroom	
Protection Level	IP 65	IP40 (standard)/ IP67 (oil mist)/ ISO class3	
Position Repeatability	0.02 mm		
Controller Type	CR800		
Axes	6 (J1-J6)		

Stand Dimensions

	3x3 w/ enclosure	4x4 w/ enclosure	3X3 w/o enclosure	4X4 w/o enclosure
Length	36 in.	48 in.	36 in.	48 in.
Width	36 in.	48 in.	36 in.	48 in.
Height	82 in.	82 in.	33 in.	33 in.
Weight	845 lbs.	1082 lbs.	649 lbs.	831 lbs.

Options

Name	Model	Specification
Solenoid valve set	1F-VD02E-01	2x source type 2/5 pneumatic valves
Teach pendant	R32TB	Standard teach pendant
Digital I/O interface	2D-TZ378	Source type, 32 inputs / 32 outputs
Digital I/O cable	2D-CBL05	16 inputs / 16 outputs, 5m, one end of the cable is loose
CC-Link IE Field	2F-DQ535-CCIEF-SET	Network Interface SET CC-Link IE Field for CR800 Control
EtherCAT interface	2F-DQ535-ECT-SET	Network Interface SET EtherCAT for CR800 Control
EtherNet/IP interface	2D-TZ535-EIP-SET	Network Interface EtherNet/IP
Profinet interface	2D-TZ535-PN-SET	Network Interface Profinet
Force sensor	4F-FS002H-W200	200N force sensor for installation on the robot flange
Standard software	RT TOOLBOX3	Standard programming and simulation software
End-effector/Gripper	Custom options apply	Custom options apply per unit
Safety	Custom options apply	Custom options apply per unit
Setup and Training	Standard fees apply	Setup fees apply/DRC Training (free)
PLC Setup	1DY CUSTOMPLC PR	PLC Setup on Mitsubishi M8 CNC System

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