



LoadMate *Plus*TM

ENGINEERED SOLUTIONS

LoadMate Plus Part Number Nomenclature Guide

LDM (Example: LDM 3 B E M 8 V -R)

Code	Stand Size
2	28" x 28" (Cobot Stand)
3	36" x 36"
4	48" x 48"

Code	Step Extension
A	Standard Mount Side Extension*
B	High Mount Side Extension*
C	Angled Mount Side Extension*
-	No Step Extension

*Size determined by stand size

Code	Safety Package
L	Safety Module w/ Laser Sensor
M	Safety Module only (No Laser Scanner)
-	No Safety Module

Code	Interface
-	DRC + Discrete I/O

Code	Mounting Side
-L	Left Mount
-R	Right Mount
-	N/A

Code	Valve Pack
V	Valve Pack Option Included
-	No Valve Pack Option

Code	Enclosure Package
E	Enclosure Included*
-	No Enclosure

*Size determined by stand size

Code	Robot
5A	ASSISTA Cobot
7	RV-7FRD
7L	RV-7FRLD
7LL	RV-7FRLLD
8	RV-8CRL
13	RV-13FRD
13L	RV-13FRLD
20	RV-20FRD

LoadMate Plus pre-engineered robot stand by Mitsubishi Electric Automation, Inc.

LoadMate Plus Robot Specifications

Model Number	RV-5AS	RV-8CRL	RV-7FR	RV-7FRL	RV-13FR	RV-13FRL	RV-20FR
Stocked Item	-	-	-	-	-	-	-
Payload Capacity	5 kg	8 kg	7 kg	7 kg	13 kg	13 kg	20 kg
Maximum Reach	910 mm	931 mm	713 mm	908 mm	1,094 mm	1,388 mm	1,094 mm
Maximum Composite Speed	1,000 mm/s	10,500 mm/s	11,604 mm/s	10,977 mm/s	10,450 mm/s	9,700 mm/s	4,200 mm/s
Environmental Specifications	N/A	Oil mist	Standard/ oil mist/ cleanroom				
Protection Level	IP54	IP65	IP40 (standard) / IP67 (oil mist) / ISO class3				
Position Repeatability	±0.03 mm	±0.02 mm	±0.05 mm				
Controller Type	CR800						
Axes	6 (J1-J6)						

Stand Dimensions

Model Number	3x3 Without Step Extension	3x3 With Step Extension	4x4 Without Step Extension	4x4 With Step Extension
Stocked Item	-	-	-	-
Length	36 in	36 in	48 in	48 in
Width	36 in	52 in	48 in	52 in
Height	82 in	82 in	82 in	82 in
Weight	845 lbs	1,095 lbs	1,082 lbs	1,367 lbs
Payload Capacity	1,190 lbs	1,190 lbs	1,025 lbs	1,025 lbs

Options Breakdown

Stand Size

Choose the right-size base stand to fit your application, for positioning the robot on the base stand, or for use as a robot work or parts loading/unloading area. Includes wheels with secure locking mechanism for easy movement between machines and stability when in operation.

Symbol	Description
2	28" x 28" (Cobot stand)
3	36" x 36"
4	48" x 48"

Step Extension

Side table attached to the base stand for mounting the robot. Allows for better robot reach on certain applications, or for the base stand to be used as a robot work area or parts loading/unloading area. Robot can be mounted at various heights and angles to match the application. Work with engineering to determine the optimum placement.

Symbol	Description
A	Standard mount side extension (6" high)
B	High mount side extension (even with main stand table)
C	Angled mount side extension
-	No step extension

Enclosure

Safety glass enclosure around the top of the base stand. If configuration includes a step extension, safety glass can also be included on the extension.

Symbol	Description
E	Enclosure included
-	No enclosure

Safety Packages

Choose between a laser safety system that uses a 2D area scanner and includes a safety module that allows the LoadMate Plus to be easily integrated and control a larger cells safety system, or the safety module only.

Symbol	Description
L	Safety module with 2D area laser scanner
NL	Safety module only
-	No safety module

Robot

Works with a variety of robots to match the application. Larger robots available should the application require it.

Symbol	Description
5A	ASSISTA Collaborative Robot
7	RV-7FRD
7L	RV-7FRLD
7LL	RV-7FRLLD
8	RV-8CRL
13	RV-13FRD
13L	RV-13FRLD
20	RV-20FRD

Valve Pack

Robot end-of-arm mounted valve pack for integrating end of arm tooling with the robot.

Symbol	Description
V	Valve pack option included
-	No valve pack included

Interface

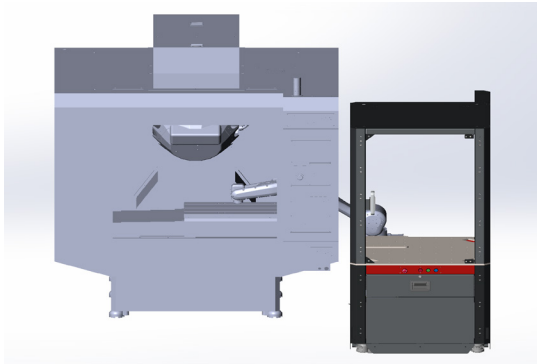
Methods for connecting and interfacing with different CNC. Discrete I/O and Direct Robot Control for Mitsubishi Electric M8 series CNC standard.

Symbol	Description
-	Direct Robot Control and Discrete I/O

Mounting Side

For applications where the LoadMate Plus stand will be side-mounted to the CNC Machine Tool or other equipment. Mounting location on the machine determines certain aspects of the stand configuration. R/L defined based on facing the front of the machine, the side from this view. For reference, the below image is right-mount.

Symbol	Description
-R	Right mount
-L	Left mount
-	N/A



Right mount on CNC Mill

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