

M-410i™

Basic Description

Four-axis, modular construction, electric servo-driven robot with an integrated mechanical and control unit designed for a variety of manufacturing, palletizing and system processes. The FANUC M-410i series of robots is engineered for precision, high-speed operation, user-friendly setup and maximum reliability supported by our extensive service and parts network.

M-410i the Solution for:

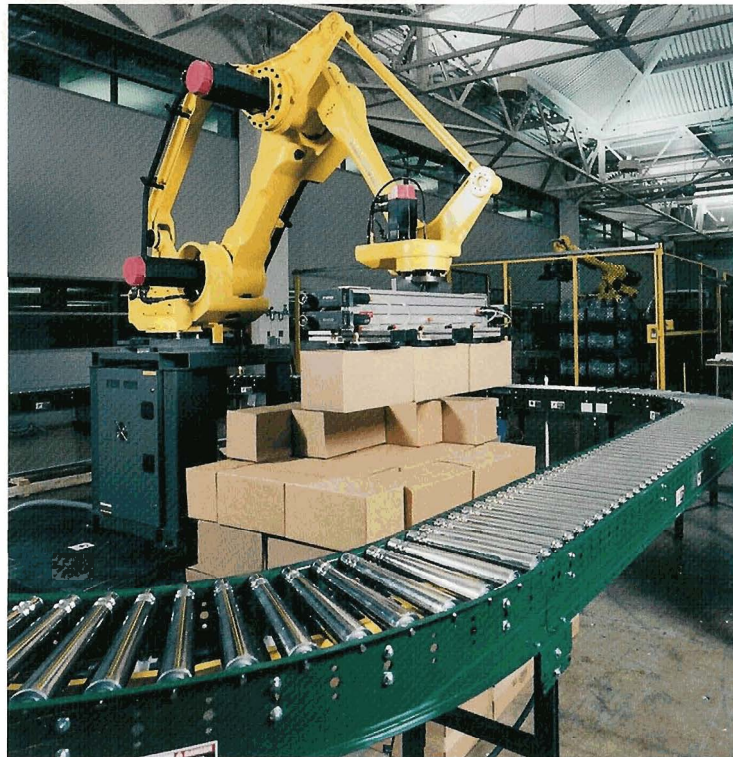
- Palletizing
- Material handling
- Machine load/unload
- Parts transfer
- Glass handling

Benefits

- Fastest cycle times in robot class.
- Integrated mechanical and control unit mounted internal to robot base.
- Large work envelope allows robot operation in a variety of plant installations.
- Small footprint increases installation flexibility.
- Easy program creation and editing.
- Can operate in environments ranging from harsh to traditional factory floor.

Features

- 4 axes of motion
- 3 standard models
- 60kg (132 lbs) to 155kg (341 lbs) load capacity
- $\pm 0.5\text{mm}$ ($\pm 0.020\text{"}$) repeatability
- Axes speed up to 300° per second
- 2,925mm (115") vertical reach



Reliability Features

- Integrated mechanical and control unit design eliminates cabling and connections.
- Brushless AC servo motors minimize motor maintenance.
- Sealed bearings and drives provide protection and improve reliability.
- Directly-coupled drive on all axes results in higher reliability and reduced maintenance costs.
- Absolute serial encoder positioning.
- Vertical articulation eliminates "elbow" collision problems related to SCARA robots.
- User I/O, power wiring and air supply tubing internal to robot arm.

SYSTEM R-J2 *i*-Controller Features

- Provides easy installation, startup, troubleshooting and maintenance.
- Advanced servo control increases speed and smooths motion paths.
- Advanced TurboMove motion control increases throughput.
- RS-232 communication port.

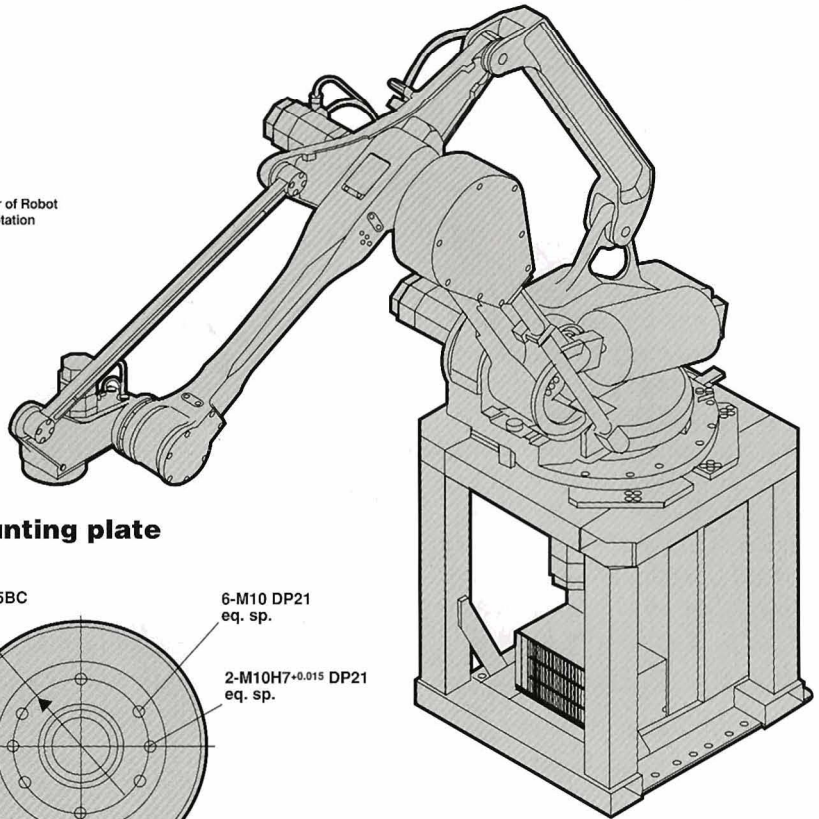
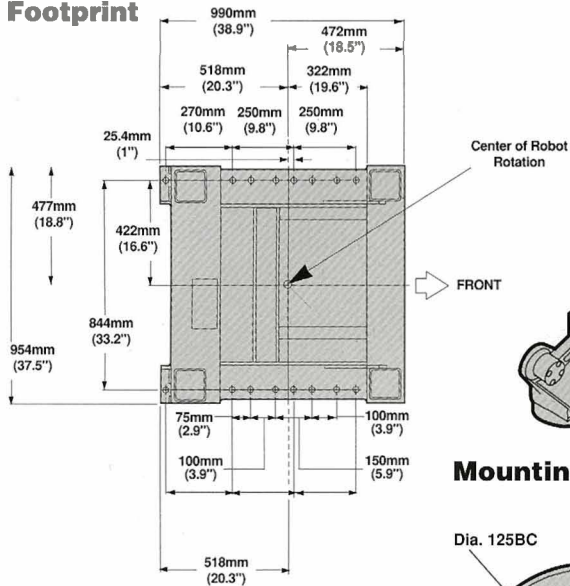
Options

- Built-in PLC and I/O in controller
- 3.5" floppy disk drive for off-line storage
- Remote I/O communications to GE Fanuc or Allen-Bradley

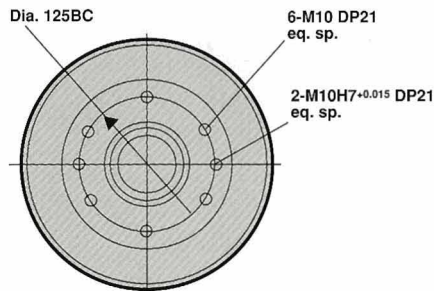
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M-410i Dimensions

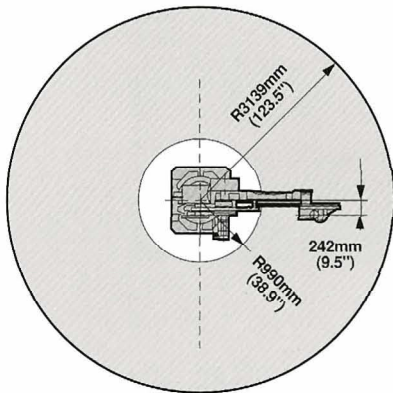
Footprint



Mounting plate



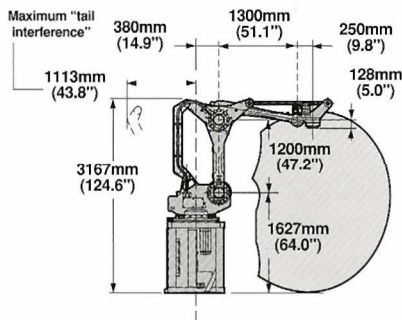
Top



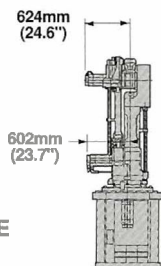
M-410i Specifications

Items	Standard		Heavy Duty		Extra Heavy Duty		
	Range	Speed	Range	Speed	Range	Speed	
Motion range and speed	Axis 1	360°	115°/sec.	360°	105°/sec.	360°	85°/sec.
	Axis 2	145°	120°/sec.	145°	100°/sec.	145°	90°/sec.
	Axis 3	135°	135°/sec.	135°	120°/sec.	135°	100°/sec.
Axis 4	540°	300°/sec.	540°	235°/sec.	540°	190°/sec.	
Load inertia	280kgf · cm · sec ²		390kgf · cm · sec ²		560kgf · cm · sec ²		
Repeatability	±0.5mm (±0.020")		±0.5mm (±0.020")		±0.5mm (±0.020")		
Max. load capacity	60kg (132 lbs)		100kg (220 lbs)		155kg (341 lbs)		
Mounting method	Upright		Upright		Upright		
Mechanical brakes	All axes		All axes		All axes		
Mechanical weight	1500kg (3300 lbs)		1500kg (3300 lbs)		1500kg (3300 lbs)		

Side



Front



SCALE
1/120"

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