



Productivity Inc.



Productivity Pre-Engineered Systems

LOWER initial investment.

SHORTER lead times.

PREDICTABLE results.

System Options



Quick-Change Gripper Mount allows the operator to change gripper head assemblies in seconds.



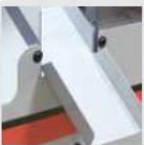
Part Re-Grip Station provides a quick change base that can accommodate a variety of small fixtures a robot may require in dual sided operations.



Door Actuator allows the robot to automatically open and close the machine door. There are several models based upon your configuration.



iRVision Robotic Vision System allows operators to randomly place parts onto the infeed device.



Part Inspection Chute allows the robot to place parts external to the robot. These can be used for mass part collection or to handle in-process inspection.



Workholding options are available. Please discuss your needs with your sales specialist.



Machine Interface provides electrical connection of each machine tool to the robot. Only one is included. Each machine tool needs one.



Gripper Head Assembly can be provided if you want to have your cell be quickly changed over in multi-part operations.

Pre-Engineered CNC Machine Tending Robotic Systems



Pallet Station

Key Features

- Ideal for large/heavy parts
- High-volume part queuing
- Multiple machine layouts possible
- Simple operation

RoboFlex PS Base Package

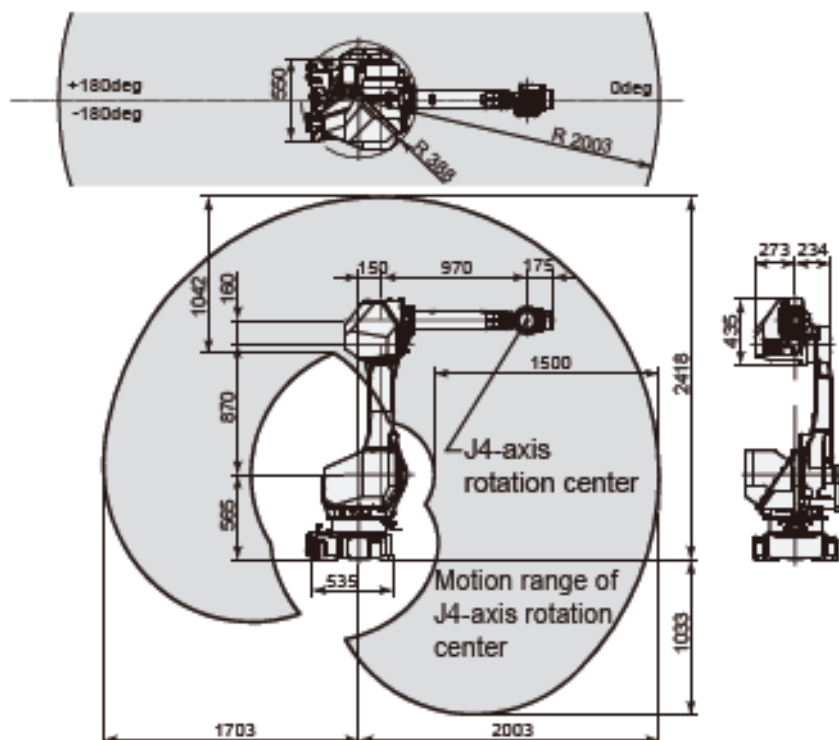
Popular Options (others by consultation)

- FANUC iRVision 2D part locating system
- Re-grip/flip station
- Part inspection/exit chute
- Pneumatic vertical sliding shutter
- Fast servo (2) door shutter
- High-speed servo door actuator
- Upgrade to quick-change tool stem
- Extra quick-change dual gripper assembly
- Additional machine integration
- Vise mount casting for rotary table (8")
- Schunk KSP 160 Plus vise

FANUC Robot M-710iC

Medium Payload Intelligent Robot

Operating space



Specifications

Item		Specification
		M-710iC/50H
Type		Articulated Type
Controlled axes		5 axes (J1, J2, J3, J4, J5)
Reach		2.00m
Installation		Floor, Upside-down
Motion range (Maximum speed) (Note 1)	J1 axis rotation	360°(175°/s) 6.28 rad (3.05 rad/s)
	J2 axis rotation	225°(175°/s) 3.93 rad (3.05 rad/s)
	J3 axis rotation	440°(175°/s) 7.68 rad (3.05 rad/s)
	J4 axis wrist swing	234°(175°/s) 4.08 rad (3.05 rad/s)
	J5 axis wrist rotation	720°(720°/s) 12.57 rad (12.57 rad/s)
Max. load capacity at wrist		50kg
Max. load capacity at J3 arm (Note 2)		15kg
Allowable load moment at wrist	J4 axis	150 N·m 15.3 kgf·m
	J5 axis	68 N·m 6.9 kgf·m
Allowable load inertia at wrist	J4 axis	6.3 kg·m ² 64.3 kgf·cm·s ²
	J5 axis	2.5 kg·m ² 25.5 kgf·cm·s ²
Drive method		Electric servo drive by AC servo motor
Repeatability		± 0.15 mm
Mass (Note 3)		540kg
Installation environment		Ambient temperature : 0~45°C Ambient humidity : Normally 75%RH or less (No dew nor frost allowed) Short term 85%RH or less (within one month) Vibration : 0.5G or less

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.

Note 2) Max. load capacity at J3 casting is limited by payload at wrist.

Note 3) Without controller.