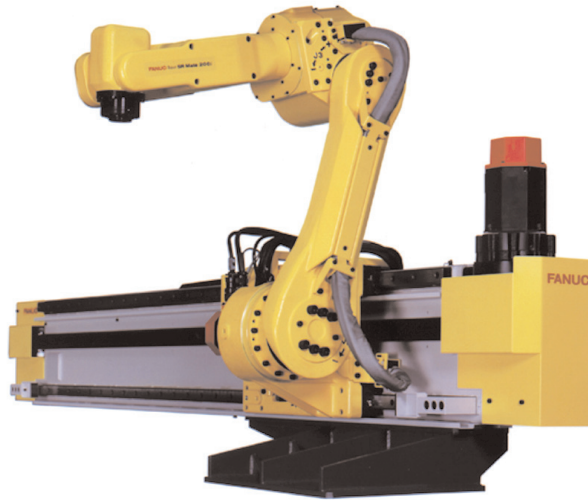


SR Mate 200iA

Basic Description

The SR Mate 200iA is a modular construction, electric servo-driven robot designed for injection molding machine tending and material handling. This rail-mounted robot is engineered for precision, high-speed operation, user-friendly setup and maximum reliability.



The SR Mate 200iA robot is designed for high-speed top-mounted injection molding machine tending and material handling. The SR Mate 200iA also has the ability to perform value-added post-processing.

SR Mate 200iA, the Solution for:

- FANUC Roboshot α -series injection molding machine tending
- Injection molding machine tending
- Machine tool tending (dry, chipless environment)
- Material handling
- Part transfer
- Assembly
- Testing and sampling

Features

- Linear rail speeds of 2000mm/sec
- Linear rail travel of 1500mm
- High strength, toothed belt drive on J1 axis.
- Based on proven, reliable standard FANUC Robotics products.
- Motors and cables are engineered to prevent snagging and damage.
- End effector connector built into the robot shoulder minimizes cable routing.
- Fail-safe brakes on all six axes.

Benefits

- Combines the extended reach of a linear rail with a wide range of motion and dexterity of an articulated robot arm.

- Multi-axis dexterity reduces system content by replacing complex part handling equipment and grippers.
- Increased fault tolerance with quick recovery.
- Multi-axis dexterity allows for post-processing applications such as de-burring, de-flashing, labelling and packing.
- Reduces floor space and ceiling requirements compared to gantry robots.
- Ethernet communications to FANUC α -series Roboshot IMM allows SR Mate robot to be controlled from Roboshot operator panel.
- Adapts easily to other injection molding machine platens.
- Can use FANUC Robotics SPI Interface (hardware and software) to interface with other injection machines.

Roboshot Platen Brackets

- SR Mate 200i platen bracket (included) is designed to attach the robot to a FANUC Roboshot

α -150iA, α -250iA or α -300iA. All SR Mate 200iA robots are shipped with the α -150iA bracket.

- Roboshot platen brackets can be easily adapted to fit other Roboshot or non-Roboshot injection molding machines.

Options

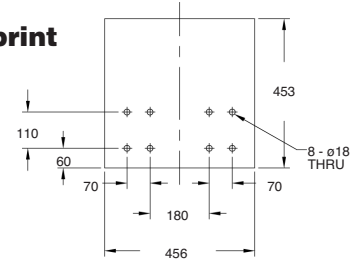
- Roboshot Connection Kit includes all hardware, software and cabling to connect SR Mate Series robot to a FANUC α -series Roboshot injection-molding machine.
- FANUC Robotics SPI Interface package includes all hardware, software and cabling to connect to non-Roboshot injection-molding machines. The SR Mate 200iA robot is designed for high-speed top-mounted injection molding machine tending and material handling. The SR Mate 200iA also has the ability to perform value-added post-processing.

SR Mate 200iA Dimensions



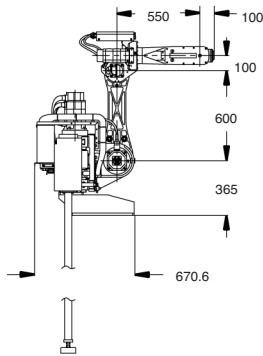
FANUC SR Mate 200iA and FANUC Roboshot α-150iA

Footprint

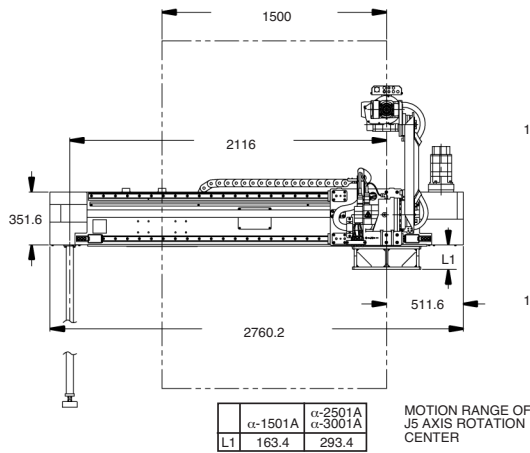
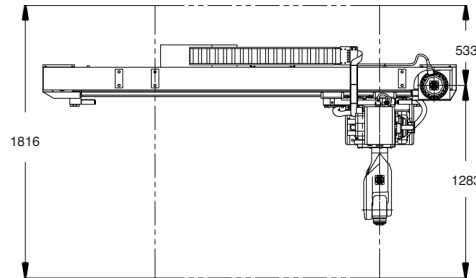


α-150iA/ α-250iA/ α-300iA platen bracket

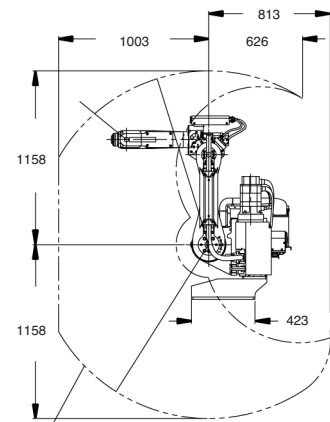
Plan View



Left Elevation



Front Elevation

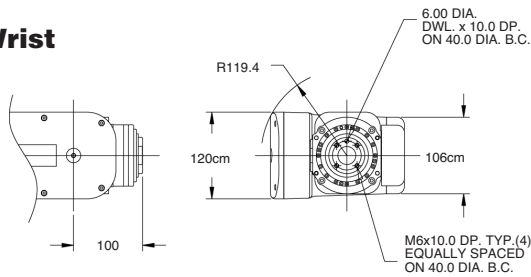


Right Elevation

SR Mate 200iA Specifications

Items		
Axes	6	
Payload (kg)	8	
Reach (mm)	1158	
Repeatability (mm)	±0.1	
Motion range (degrees)	J1	1500mm
	J2	240
	J3	310
	J4	380
	J5	280
	J6	640
Motion speed (degrees/sec.)	J1	2000mm/sec
	J2	240
	J3	240
	J4	360
	J5	360
	J6	450
Wrist moment (kgfcm)	J4	1.6
	J5	1.0
	J6	0.6
Wrist inertia (kgfcm ²)	J4	6.4
	J5	2.0
	J6	0.62
Mechanical brakes	All axes	
Mechanical weight (kg)	400	
Installation environment		
Temperature °C	0 to 45	
Humidity	Normally: 75% or less Short term (within a month): 95% or less No condensation	
Vibration (m/s ²)	4.9 or less	

Wrist



Note: Dimensions are shown in millimeters.

Note: All dimensions in millimeters.

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