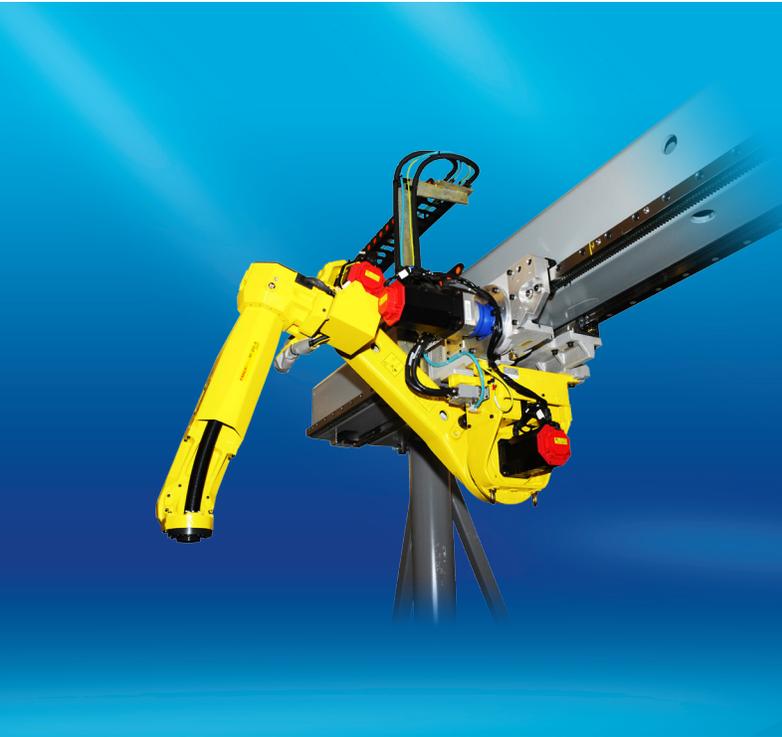


# FANUC Robot M-20iA/20T



FANUC M-20iA/20T

## Features

FANUC Robotics' M-20iA/20T overhead rail-mounted robot is part of the Toploader family of six-axis, modular construction, electric servo-driven articulated gantry robots designed for material handling and machine tending. The M-20iA/20T robot also has the ability to perform value-added post-processing operations. The robot is engineered for precision, high-speed operation, user-friendly setup and maximum reliability, supported by our extensive service and parts network. The M-20iA/20T robot is ideal for light to medium material handling challenges.

- Material handling
- Machine tool tending
- Die spray dispensing
- Post-process operations
- Palletizing/Depalletizing
- Injection mold machine extraction

### FEATURES AND BENEFITS:

- 6 axes of motion
- 20 kg payload
- +/- 0.15 mm rail repeatability - +/- 0.10 mm robot repeatability
- Modular rails can be attached to free-standing support legs with variable height attachment or to the fixed plate of an injection mold or die machine
- Reduces floor space and ceiling height requirements (compared to linear/area gantry robots)
- Built-in Solution Arm, 50mm hollow wrist and upper arm, same as M-20iA
- Uses standard FANUC controller and software
- Improves machine productivity by as much as 30 percent
- Minimizes installation time and startup expense through easy installation alignment
- Maximizes uptime through superior fault tolerance, quick error recovery and proven FANUC reliability
- Services multiple vertical and/or horizontal machines
- Balances asynchronous processes by maintaining in-process part buffers
- Performs value-added processing operations such as gauging, deburring, deflashing and labeling, in addition to basic material handling tasks



M-20iA/20T on track system

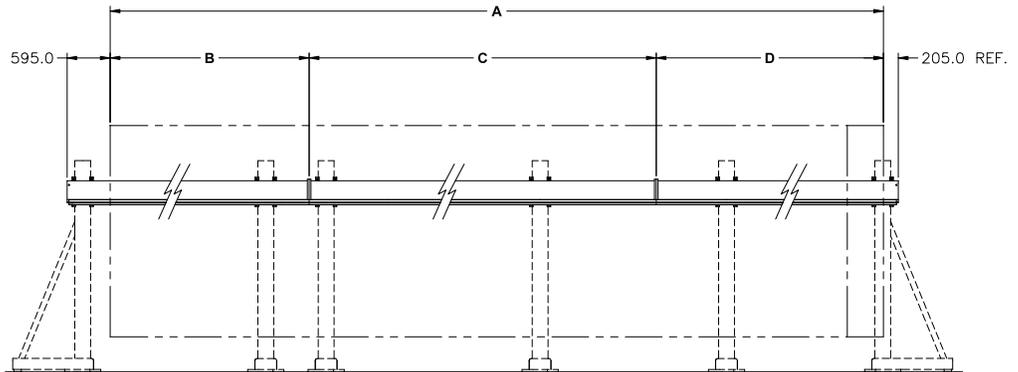
## Rail Travel Options

SELECT ONE RAIL TRAVEL:

- 'A' (SINGLE-SECTION RAIL)
- 'B' + 'D' (TWO-SECTION RAIL)
- 'B' + 'C' + 'D' (THREE-SECTION RAIL)
- 'B' + 'C' + 'C' + 'D' (FOUR-SECTION RAIL)

RAIL TRAVEL DIMS. (mm)		
A	B or D	C
2400		
3660		
5130	5130	
6600	6600	
	7440	7560
8070	8070	
9540	9540	
	10380*	10080
11010*	11010*	

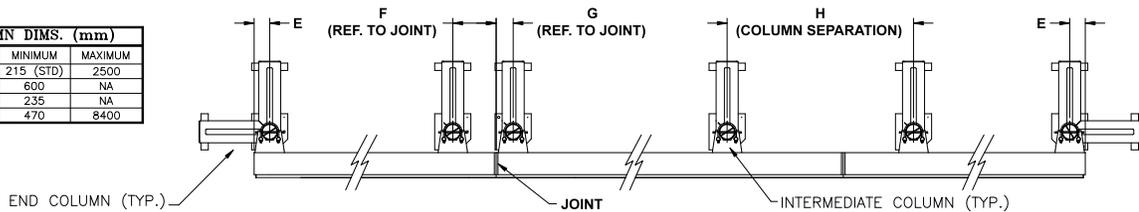
\* CONTACT FANUC ROBOTICS



TO SUPPORT CABLE TRACK INSTALLATION ON 2- AND 3-SECTION RAILS SECTION B MUST BE EQUAL TO OR LONGER THAN SECTION D

## Column Positioning

COLUMN DIMS. (mm)		
DIM.	MINIMUM	MAXIMUM
E	215 (STD)	2500
F	600	NA
G	235	NA
H	470	8400



TWO (2) END COLUMNS STANDARD ON ALL RAIL TRAVELS (SHOWN AT STANDARD "END-OF-RAIL" LOCATIONS)

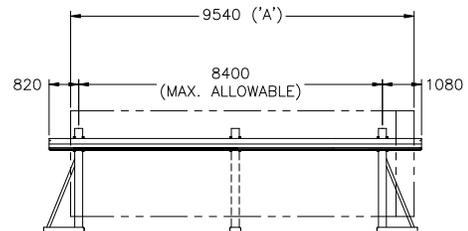
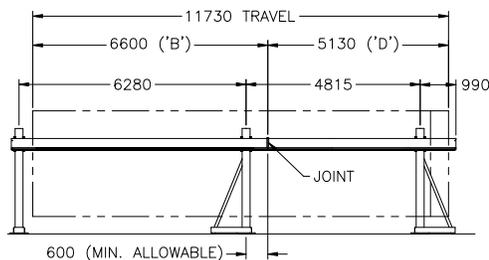
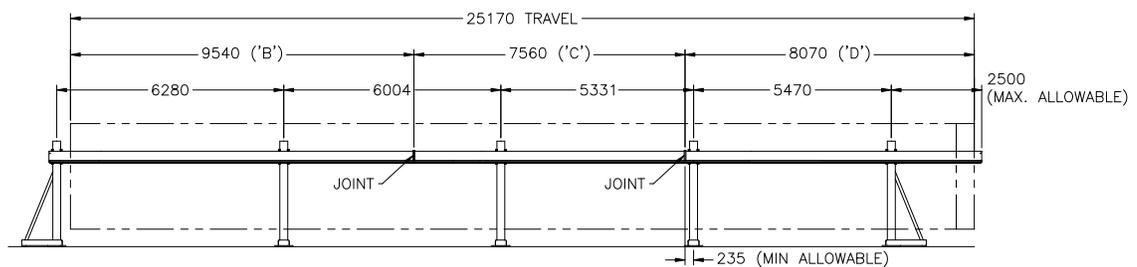
ONE (1) INTERMEDIATE COLUMN STANDARD WHEN RAIL TRAVEL EXCEEDS 8000MM

TWO (2) INTERMEDIATE COLUMNS STANDARD WHEN RAIL TRAVEL EXCEEDS 16000MM (TWO-PIECE RAILS ONLY)

ALL COLUMN LOCATIONS CAN BE SPECIFIED BY CUSTOMER

FANUC ROBOTICS RECOMMENDS TWO COLUMNS PER INDIVIDUAL RAIL SECTION TO ENSURE ADEQUATE SUPPORT AND TO ALLOW THE RAIL TO BE EASILY RE-ASSEMBLED IN THE FIELD.

## Sample Rail and Column Configurations



"STD" INTERMEDIATE COLUMN NOT REQUIRED (END COLUMNS RELOCATED INWARDS TO REDUCE SPAN)

**Note:** Dimensions shown in millimeters

