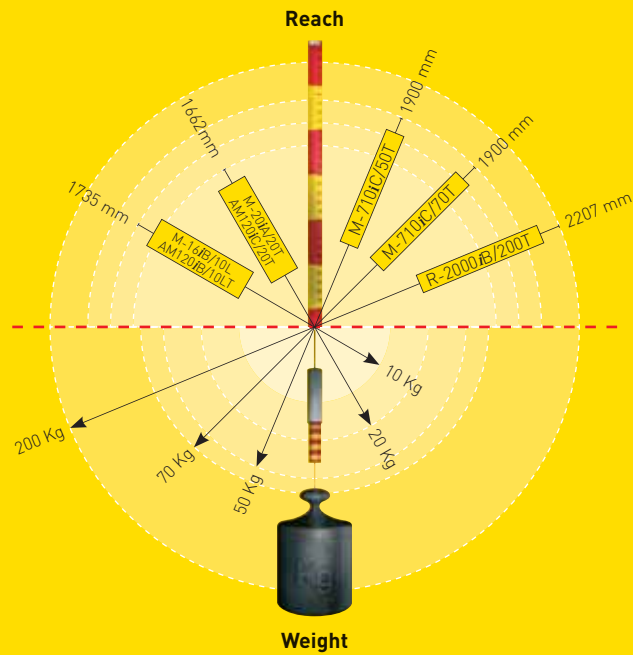


	Robot model	Controller	Controlled axes	Max. load capacity at wrist [kg]	Repeatability [mm]	Mechanical weight [kg]	Reach [mm]	Motion range [°]						Maximum speed [°/s]						J4 Moment [Nm]/ Inertia [kgm ²]	J5 Moment [Nm]/ Inertia [kgm ²]	J6 Moment [Nm]/ Inertia [kgm ²]	IP Rating
								J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6				
Top Mount Robots	M-16iB/10LT Arc Mate 120iB/10LT	R-30iA	6	10	± 0.1 ²⁾	135	1735	depending on rail specification	300	608	400	280	900	depending on rail specification	165	175	350	340	520	22/0.63	22/0.63	9.8/0.15	Body IP54 std. (IP55 optional) wrist & J3 arm IP67
	M-20iA/20T Arc Mate 120iC/20T		6	20	± 0.08 ²⁾	185	1662		300	586	400	360	900		175	180	360	360	550	44/1.04	44/1.04	22/0.28	
	M-710iC/50T		6	50	± 0.07 ²⁾	410	1900		261	491	720	250	720		175	175	250	250	355	206/28	206/28	127/11	Body IP54 std. (IP67 optional) wrist & J3 arm IP67
	M-710iC/70T		6	70	± 0.07 ²⁾	410	1900		261	491	720	250	720		120	120	225	225	225	294/28	294/28	147/11	
	R-2000iB/200T		6	200	± 0.3 ²⁾	1100	2207		245	406	720	250	720		70	90	110	110	155	1274/117.6	1274/117.6	686/58.8	Wrist & J3 arm IP67, rest IP54

2) This value is not available for J1.



- Top mounted robots are available in following versions:**
- M-16iB/10LT: 10 kg
 - M-20iA/20T: 20 kg
 - Arc Mate 120iB/10LT: Arc welding
 - Arc Mate 120iC/20T: Arc welding
 - M-710iC/50T: 50 kg
 - M-710iC/70T: 70 kg
 - R-2000iB/200T: 200 kg

THE TOP MOUNT ROBOT SERIES OFFERS INCREASED WORKING RANGE THANKS TO THE RAIL MOUNTED FIRST AXIS AND PROVIDES ENHANCED FLEXIBILITY FOR MACHINE TENDING, PARTS HANDLING AND ARC WELDING.

» FEATURES AND BENEFITS

Rail mounted robots the solution for:

- Machine tending
- Parts handling
- Welding

RAIL MOUNTED UNITS

- Top mount robots are rail-mounted at 90° or reverse on linear axis 1

CAPABILITY TO SERVICE MULTIPLE MACHINES

- One robot can service multiple vertical and/or horizontal machines reducing investment costs
- The machines can be situated within the working envelope of the robot but without the need to be directly in line, as is the case with normal gantry robots.

REDUCED FLOOR SPACE

- Top mounted robots reduce floor space and ceiling height requirements, compared to linear gantry robots.
- This also allows full access to machines and work piece fixturing.

POSSIBILITY TO MOUNT 2 ROBOTS ON A SINGLE RAIL

- Increased flexibility in cell design

OPTION: FASTER MOTOR FOR RAIL AXIS (M-710iC/50T AND 70T)

- The rail axis is equipped as standard with a FANUC motor α F22/3000
- It is possible to order the FANUC motor α S30/3000 which offers higher torque and better acceleration. This enables faster cycle times.

MOTORS DIRECTLY COUPLED TO THE REDUCER

- Simplified mechanical unit
- Reduced breakdown risk
- Compact and reliable solution
- High accuracy and minimum backlash

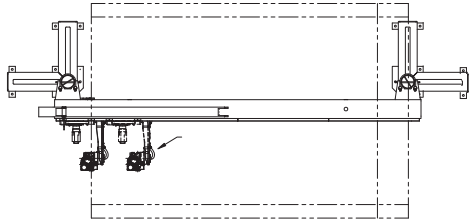
HOLLOW JOINT CONSTRUCTION FOR REDUCERS

- Reduced wear of cable routing as most reducers have hollow construction

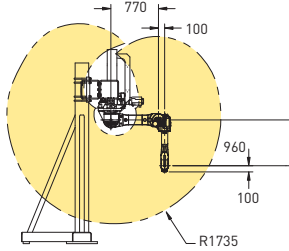


Arc Mate 120iB/10LT · M-16iB/10LT

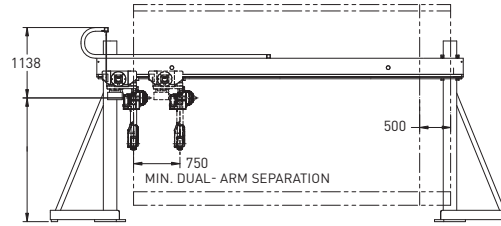
Top (Underslung)



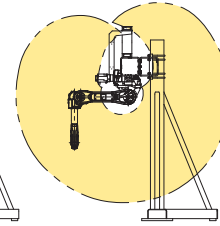
Right (Underslung)



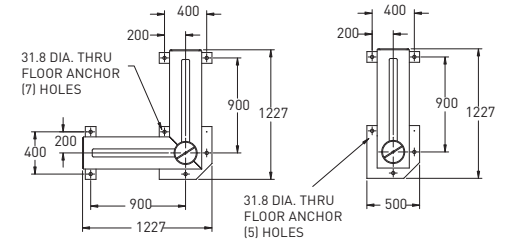
Front (Underslung)



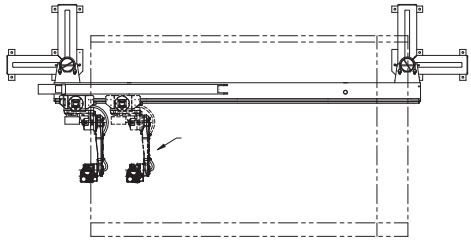
Left (Underslung)



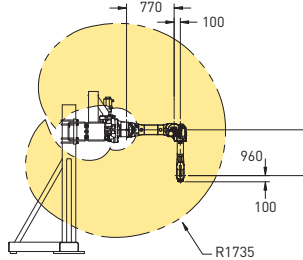
Footprint Arc Mate 120iB/10LT M-16iB/10LT



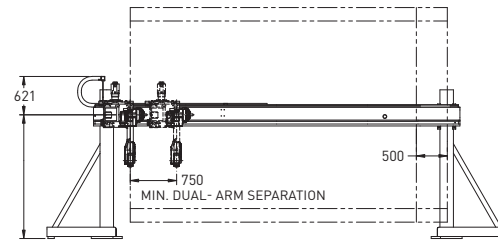
Top (Sideslung)



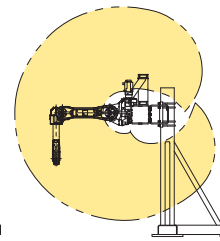
Right (Sideslung)



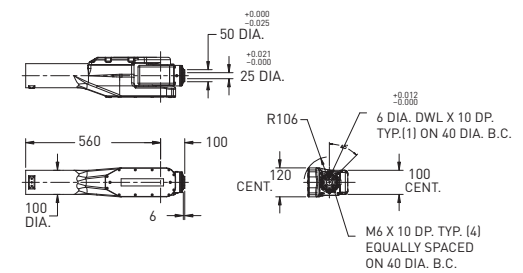
Front (Sideslung)



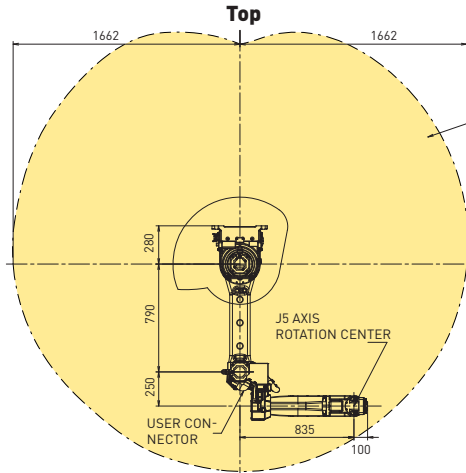
Left (Sideslung)



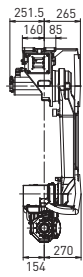
Wrist Arc Mate 120iB/10LT M-16iB/10LT



M-20iA/20T

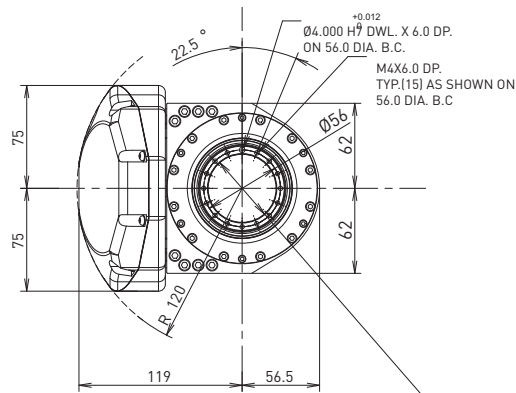


MOTION RANGE OF THE J5 AXIS ROTATION CENTER

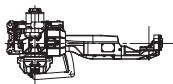
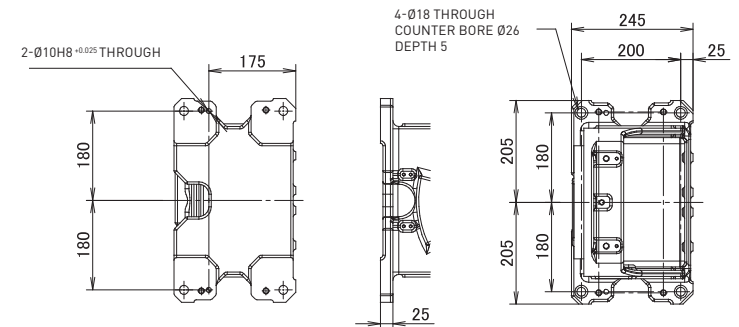


Front

Wrist M-20iA/20T

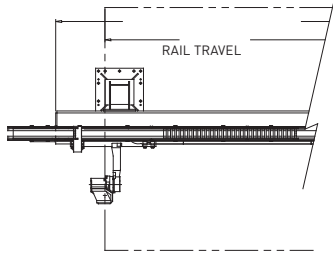


Footprint M-20iA/20T

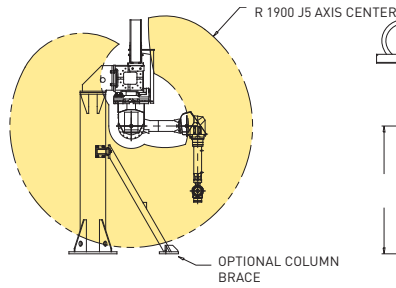


M-710iC/50T/70T

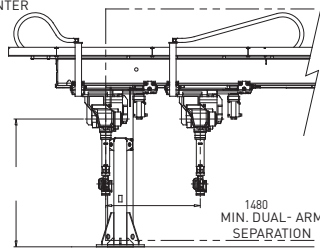
Top (Underslung)



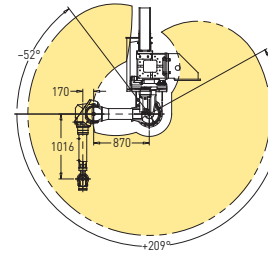
Right (Underslung)



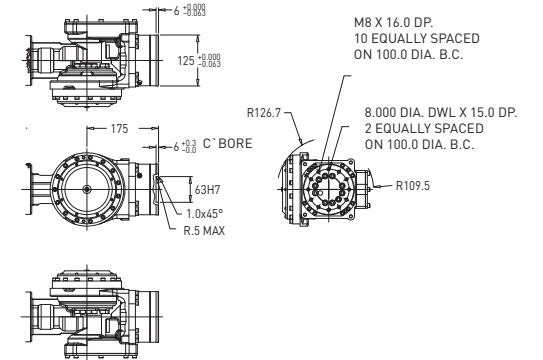
Front (Underslung)



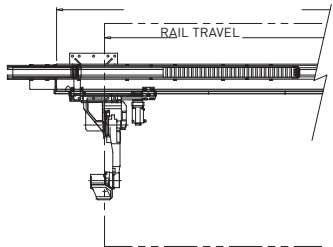
Left (Underslung)



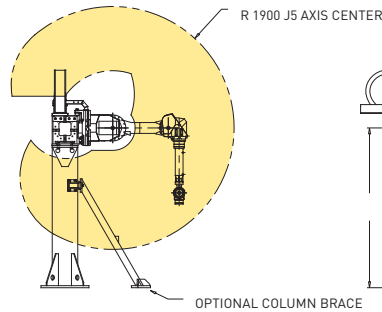
Wrist M-710iC/50T/70T



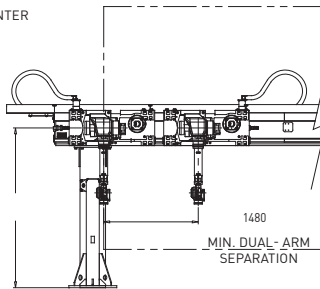
Top (Sideslung)



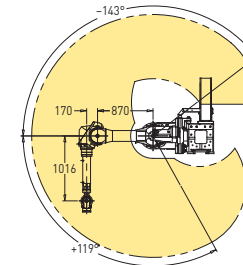
Right (Sideslung)



Front (Sideslung)

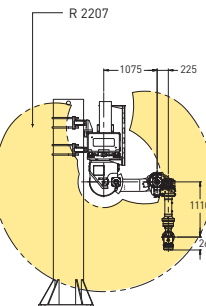
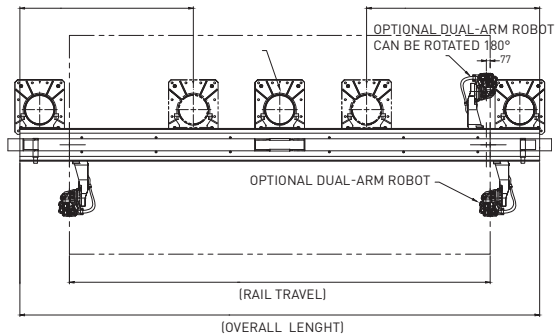


Left (Sideslung)

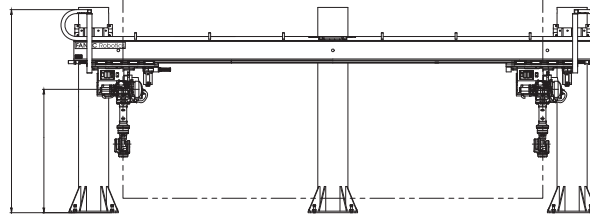


R-2000iB/200T

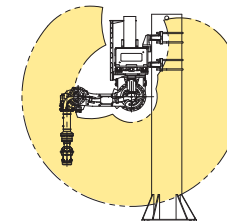
Top (Underslung)



Right (Underslung)



Front (Underslung)



Left (Underslung)

Wrist R-2000iB/200T

