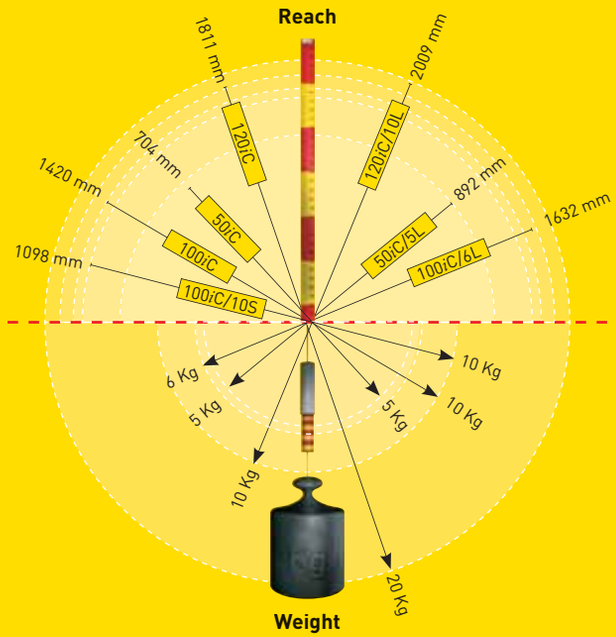
ARC MATE SERIES

	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 [kgm²]	J5 Moment [Nm]/ Inertia [kgm²]	J6 Moment [Nm]/ Inertia [kgm²]	IP Rating
								J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6				
Arc Mate	50*i*C	R-30*i*A Mate	6	5	± 0.02	27	704	340/360	200	388	380	240	720	350	350	400	450	450	720	11.9/0.3	11.9/0.3	6.7/0.1	IP67
	50*i*C/5L		6	5	± 0.03	29	892	340/360	230	373	380	240	720	270	270	270	450	450	720	11.9/0.3	11.9/0.3	6.7/0.1	
	100*i*C	R-30*i*A/ R-30*i*A Mate	6	10	± 0.08	130	1420	340/360	250	445	380	380	720	210	190	210	400	400	600	21.6/0.63	21.6/0.63	9.8/0.15	IP54
	100*i*C/6L		6	6	± 0.1	135	1632	340/360	250	447	380	380	720	210	190	210	400	400	600	15.7/0.63	10.1/0.38	5.9/0.061	
	100*i*C/10S		6	10	± 0.05	130	1098	340/360	250	340	380	380	720	220	230	270	410	410	610/720	22/0.63	22/0.63	9.8/0.15	
	120*i*C		6	20	± 0.08	250	1811	340/370	260	458	400	360	900	195	175	180	360	360	550	44/1.04	44/1.04	22/0.28	
	120*i*C/10L		6	10	± 0.1	250	2009	340/370	260	460	400	360	900	195	175	180	400	400	600	22/0.63	22/0.63	9.8/0.15	



Available in 7 different versions:

- Arc Mate 50*i*C: 5 kg payload
- Arc Mate 50*i*C/5L: 5 kg payload, Long arm
- Arc Mate 100*i*C: 10kg payload, Standard model
- Arc Mate 100*i*C/6L: 6kg payload, Long arm
- Arc Mate 100*i*C/10S: 10kg payload, Short arm
- Arc Mate 120*i*C: 20kg payload, Standard model
- Arc Mate 120*i*C/10L: 10kg payload, Long arm

THE ARC MATE SERIES OFFERS 6-AXES ROBOTS DEDICATED TO WELDING APPLICATIONS WITH PAYLOADS RANGING UP TO 20 KG AND REACHES FROM 704 MM TO 2009 MM.THE ARC MATE ROBOTS ARE SUITABLE FOR TIG, MIG, MAG, WIG AND LASER WELDING APPLICATIONS.

FEATURES AND BENEFITS

Dedicated robot series for demanding arc welding applications

DEDICATED AND POWERFUL APPLICATION SOFTWARE = ARC TOOL FOR ARC MATE 100*i*C R-30*i*A MATE AND ARC MATE 100*i*C/6L R-30*i*A MATE

- Easy connection and communication with most common power sources
- Advanced process functions:
  - · Saving time for path teaching
  - · Increasing arc on time

HIGH SPEED BETWEEN WELDS

The robot coupled with the advanced FANUC controller offers high axes speed which reduces time for movement between welds

FLOOR, CEILING (ANGLE AND WALL) MOUNTING METHOD

Ceiling and angle mounted robots provide:

- Easier access to the machine being serviced
- Easier access to the parts
- Allows maximised use of the robot work envelope
- Some restrictions exist for the angle and wall mounting

OPTION: TORCH MAINTENANCE STATION

The torch maintenance station cleans and dresses arc welding torches automatically.

STANDARD AIR AND ELECTRICAL CONNECTIONS PROVIDED TO AXIS J3

Integrated air and electrical services from J1 to J3

- Short connections to tool
- Increased wiring reliability
- Proven reliability (factory built)

OPTION: TIG (HIGH FREQUENCY) PROTECTION KIT AVAILABLE

Protects the robot to be used for TIG welding and high frequency applications

ADDITIONAL MOUNTING FACILITY ON J3 ARM FOR WIRE FEED UNIT

Reducing weld harness length, providing closer control to the wire feed

SPECIAL FEATURES FOR NEW GENERATION ARC MATE 100*i*C, ARC MATE 100*i*C/6L, ARC MATE 120*i*C, ARC MATE 120*i*C/10L

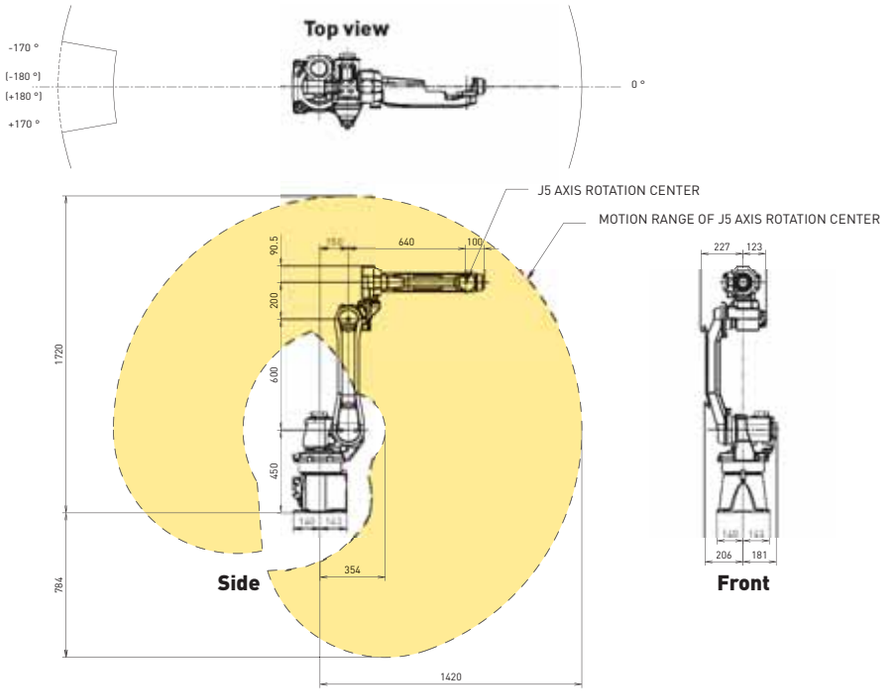
INTEGRATED CABLE AND HOLLOW WRIST

- Hollow Wrist (50mm diameter) and cantilevered J3 Arm for integrated cables and hoses
- Integrated wire feed control cable, with shielding gas hose and welding power cables.
- Internal routing: the dress package follows the motion range of the robot
- Internal dress package for easy programming, operation and maintenance, longer cable life
- Avoid collisions and cable interference with work piece and fixturing and maximize tool rotation range

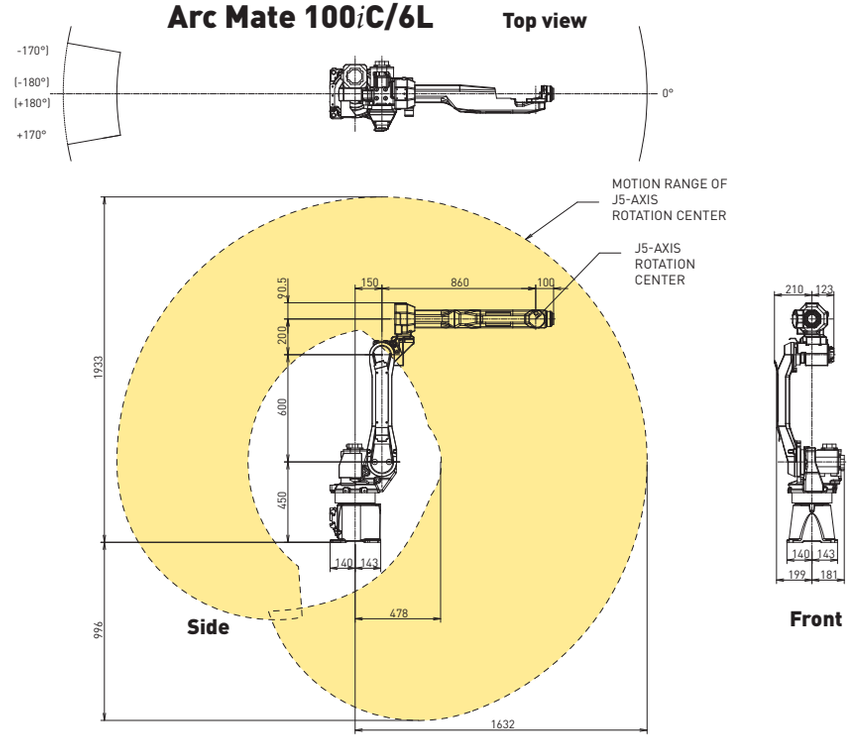



Dimensions

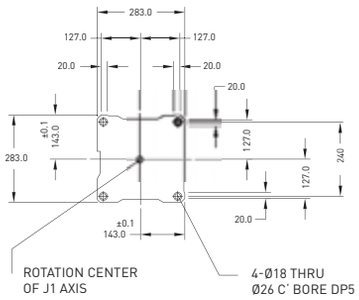
Arc Mate 100*i*C (M-10*i*A)



Arc Mate 100*i*C/6L

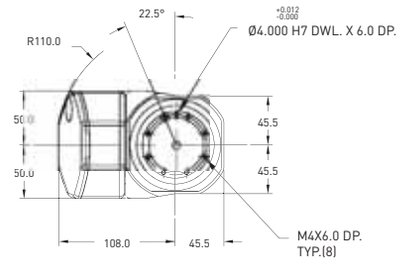


Footprint Arc Mate 100*i*C (M-10*i*A)



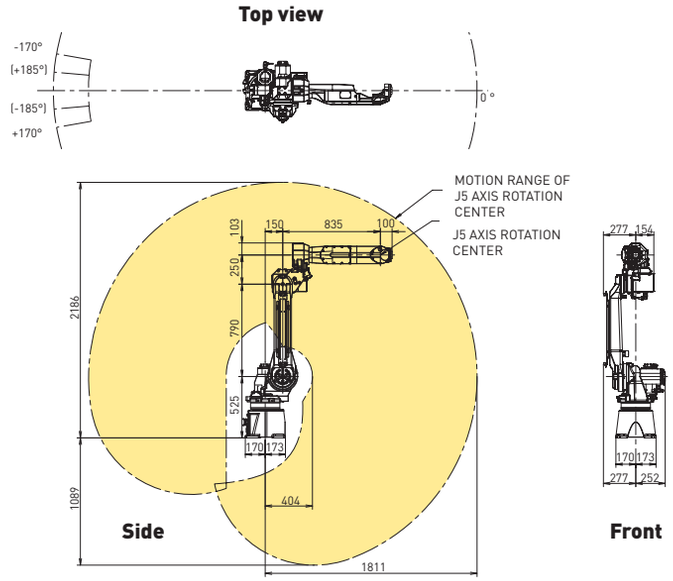
For CAD data of the Arc Mate 50*i*C pls. refer to LR Mate 200*i*C
For CAD data of the Arc Mate 50*i*C/5L pls. refer to LR Mate 200*i*C/5L
For CAD data of the Arc Mate 100*i*C/10S pls. refer to M-10*i*A/10S

Flange Wrist Arc Mate 100*i*C (M-10*i*A Arc Mate 120*i*C/10L)

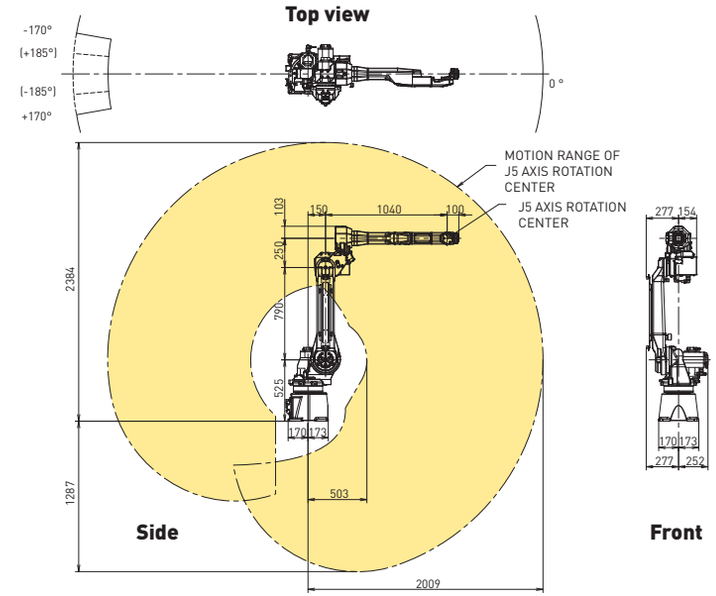


Dimensions

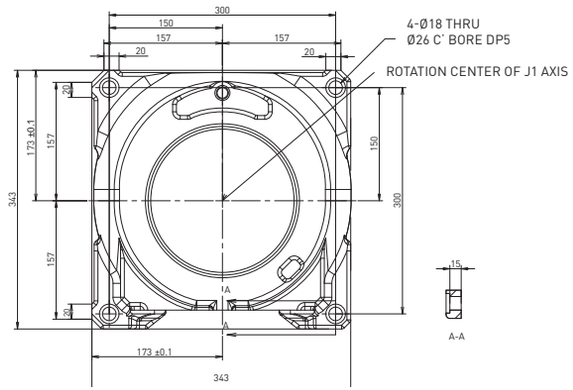
Arc Mate 120*i*C



Arc Mate 120*i*C/10L



Footprint Arc Mate 120*i*C, Arc Mate 120*i*C/10L



Wrist Arc Mate 120*i*C