

FANUC Robot ARC Mate *0iB*

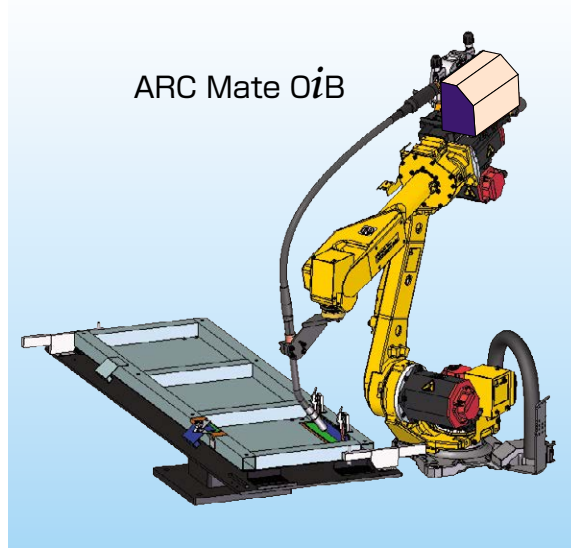


FEATURES

FANUC Robot ARC Mate *0iB* is a low cost arc welding robot, more extremely lightweight and compact, specifically designed for arc welding applications.

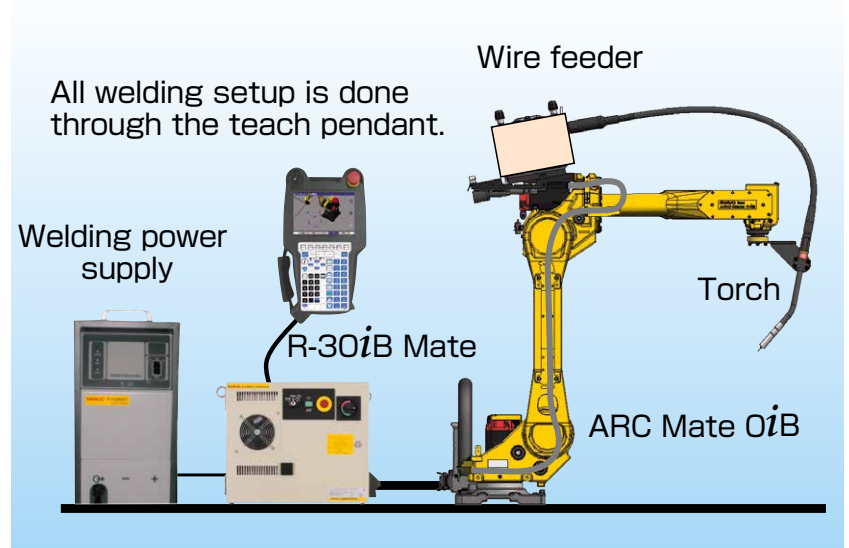
- The lightweight under 100 kg, slim arm and compact base, the form of ARC Mate *0iB* is optimized for arc welding applications that needs delicate motion.
- ARC Mate *0iB* keeps the high reliable performance and the maintenance ability is enhanced by easier replaceable robot cable.
- The latest servo technology of high grade robot controller R-30*0iB* Mate provides high speed and accuracy of the robot motion and minimizes the interaction of the operator to increase the efficiency of the arc welding system.
- R-30*0iB* Mate controller is filled with the newest arc welding robot software. 4D graphic function supports customer' s teaching kindly to reach high quality arc welding easily and quickly.
- Integrated with the latest arc welding power supply, ARC Mate *0iB* provides various welding technique such as thin metal spatter-less welding, high quality controlled pulse welding, that can satisfy customers.

Example system



Smaller part arc welding system by ARC Mate *0iB*

Example of system configuration

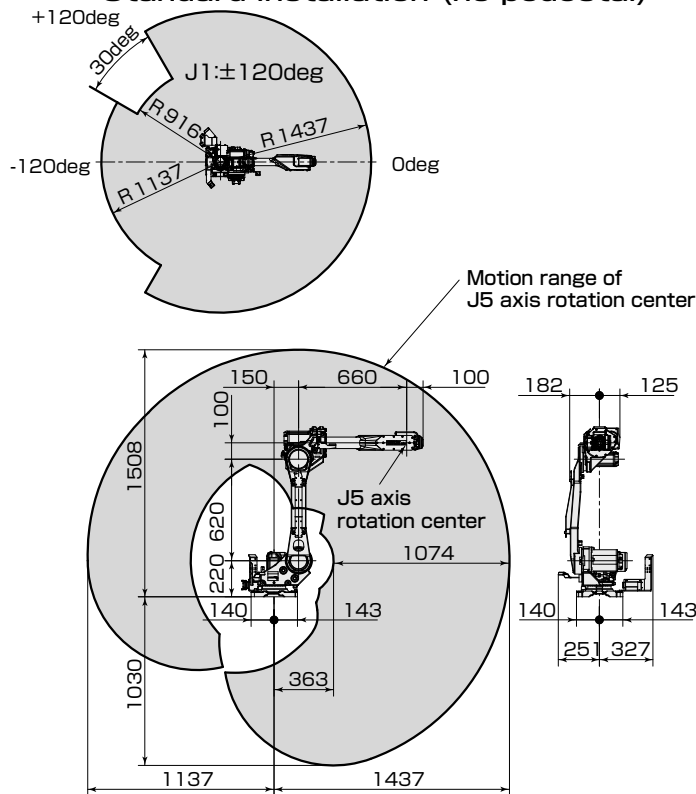


Arc welding robot package with ARC Mate *0iB*

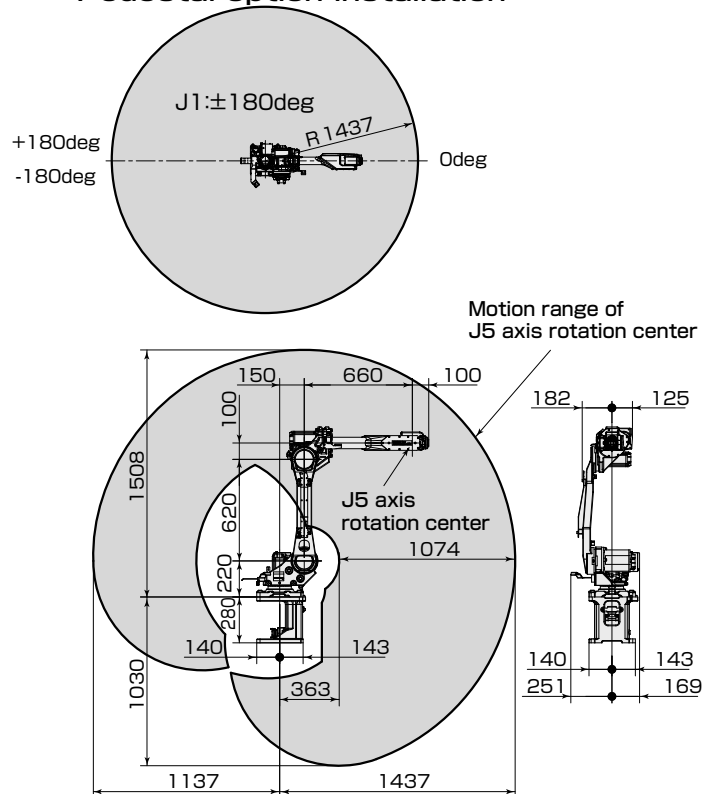
FANUC Robot ARC Mate *0iB*

Operating space

Standard installation (no pedestal)



Pedestal option installation



Robot Specifications

Model	ARC Mate <i>0iB</i>	
Controlled axes (Note 1)	6 axes (J1, J2, J3, J4, J5, J6)	
Reach	1,437 mm	
Installation	Floor, Upside-down, Angle mount	
Motion range (Maximum speed)	J1 axis rotation	240[360]°(225°/s) 4.19[6.28] rad (3.93 rad/s) (Note 4)
	J2 axis rotation	250°(215°/s) 4.36 rad (3.75 rad/s)
	J3 axis rotation	455°(225°/s) 7.94 rad (3.93 rad/s)
	J4 axis wrist rotation	380°(425°/s) 6.63 rad (7.42 rad/s)
	J5 axis wrist swing	280°(425°/s) 4.89 rad (7.42 rad/s)
	J6 axis wrist rotation	720°(625°/s) 12.57 rad (10.91 rad/s)
Maximum load capacity at wrist	3kg	
Allowable load moment at wrist	J4 axis	8.9 N·m
	J5 axis	8.9 N·m
	J6 axis	3.0 N·m
Allowable load inertia at wrist	J4 axis	0.280 kg·m ²
	J5 axis	0.280 kg·m ²
	J6 axis	0.035 kg·m ²
Repeatibility	± 0.08mm	
Robot mass	99[145]kg (Note 4)	
Installation environment	Ambient temperature : 0 ~ 45°C Ambient humidity : Normal 75%RH or less (No dew nor frost allowed) Short term : 95%RH or less (within one month) Vibration acceleration : 4.9m/s ² (0.5G) or less	

Welding Power Supply Specifications (CV type)

Model	FH350 <i>i</i>
Type	CO2/MAG
Rated Input Voltage	AC200V, 3φ
Input Frequency	50 · 60Hz
Rated Input Power	16.0kVA
Output Current	DC40~350A
Output Voltage	DC12~36V
Rated duty	100% at 270A
Welding power supply Mass	60kg
Outer dimensions	W290 x D540 x H630 mm

Welding Power Supply Specifications (STT,PULSED type)

Model	Power Wave R350
Type	CO2/MAG/MIG/Pulsed
Rated Input Voltage	AC208/230/380-415/460/575V, 3φ
Input Frequency	50 · 60Hz
Rated Input Power	17.0kVA
Output Current	DC5~350A
Output Voltage	DC14~38V
Rated duty	100% at 300A
Welding power supply Mass	Main unit: 39kg, STT module: 21kg
Outer dimensions	Main body: W356 x D630 x H518 (mm) STT module: W353 x D645 x H292 (mm)

Note 1) In case of using robot combined with aux. axis, please consult with FANUC.

Note 2) In case of short distance motion, the axis speed may not reach the maximum value stated.

Note 3) Motion range of wrist axis may be restricted by torch to less than the values given.

Note 4) The value in [] shown above need the pedestal option.

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ARCMate*0iB*(E)-02c, 2022.4, Printed in Japan