

FANUC Robot **ARC Mate 100iD**



Features

The FANUC ARC Mate 100iD Robot is a torch cable integrated arc welding robot with an enhanced dress-out ability, specifically designed for arc welding applications.

- The unique gear drive mechanism allows for a slim arm for torch cable integration.
- Welding cable utilities can be integrated into the enlarged J1 hollow tube for easy system setup.
- The torch and sensor cables can be integrated into the J3 arm due to the enlarged J4 and J6 hollow tubes. The wire feeder can be compactly mounted behind the J3 arm.
- Higher rigidity of the arm provides high-speed, accurate robot motion, enhancing the productivity of the system.
- offline programming with ROBOGUIDE (Option) reduces touch-up cost.
- Latest intelligent functions with *i*RVision (integrated vision) and coordinated motion with two-axis positioner are available.



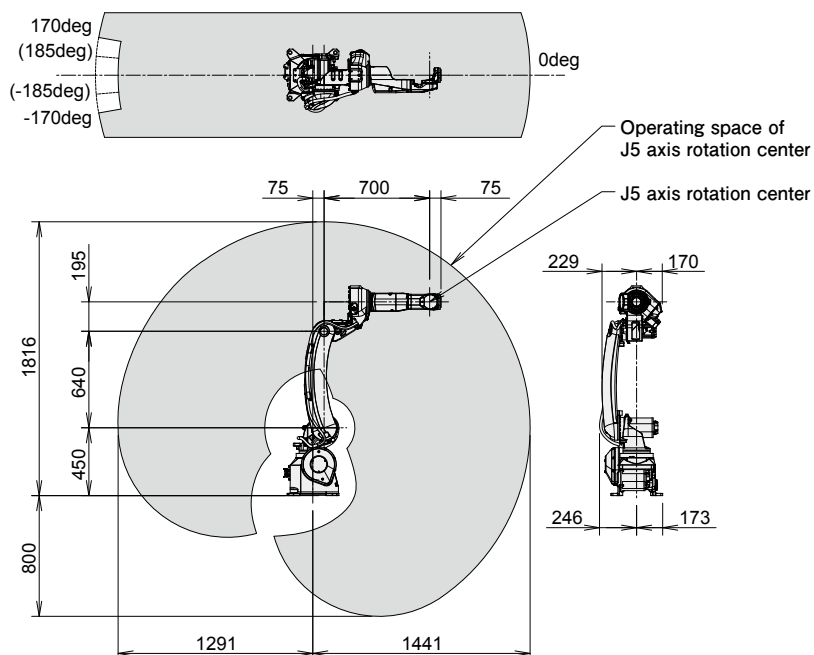
Automotive part welding system



Stainless part welding system

Operating space

ARC Mate 100iD



Specifications

Model		ARC Mate 100iD
Type		6axes (J1, J2, J3, J4, J5, J6)
Reach		1441 mm
Installation		Floor, Upside-down, Angle mount
Motion range (Maximum speed) (Note 1, 2)	J1 axis rotation	340° / 370° (Option) (240°/s) 5.93 rad / 6.46 rad (Option) (4.19 rad/s)
	J2 axis rotation	235° (240°/s) 4.10 rad (4.19 rad/s)
	J3 axis rotation	450° (230°/s) 7.85 rad (4.01 rad/s)
	J4 axis wrist rotation	380° (430°/s) 6.63 rad (7.50 rad/s)
	J5 axis wrist swing	380° (430°/s) 6.63 rad (7.50 rad/s)
	J6 axis wrist rotation	900° (650°/s) 15.71 rad (11.34 rad/s)
Max load capacity at wrist		12 kg
Allowable load moment at wrist	J4 axis	22.0 N·m
	J5 axis	22.0 N·m
	J6 axis	9.8 N·m
Allowable load inertia at wrist	J4 axis	0.65 kg·m ²
	J5 axis	0.65 kg·m ²
	J6 axis	0.17 kg·m ²
Repeatability		± 0.04 mm
Mass (Note 3)		130 kg
Installation environment		Ambient temperature : 0 to 45°C
		Ambient humidity : Normally 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

Note 1) In case of angle mounting, J1 and J2 axis motion range are restricted.

Note 2) During short distance motions, the axis speed may not reach the maximum value stated.

Note 3) Without controller

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