

ARC Mate 100iD

FANUC

INTEGRATED WIRE FEEDER MOUNTING
to minimise backside interference



LARGEST HOLLOW WRIST
and hollow reducer

FULLY INTEGRATED WELDING HOSEPACK
and cable management



12 KG PAYLOAD
perfect for additional toolings

SLIM AND CURVED J2 ARM
to minimise interference



SMOOTH SURFACES
to minimise spatter collection

A NEW GENERATION OF ARC WELDING ROBOTS



NEW arc welding robot ARC Mate 100iD

It's the first of a new generation: with its sophisticated slim, curved design and fully integrated welding hosepack and utility cables, the brand new FANUC ARC Mate 100iD offers new possibilities for improved productivity and faster integration. A larger workspace, reach and stroke, even in the backflip area, allows for a bigger working range. Improved rigidity and repeatability together with faster motion speed, mean increased productivity.

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ARC Mate 100iD

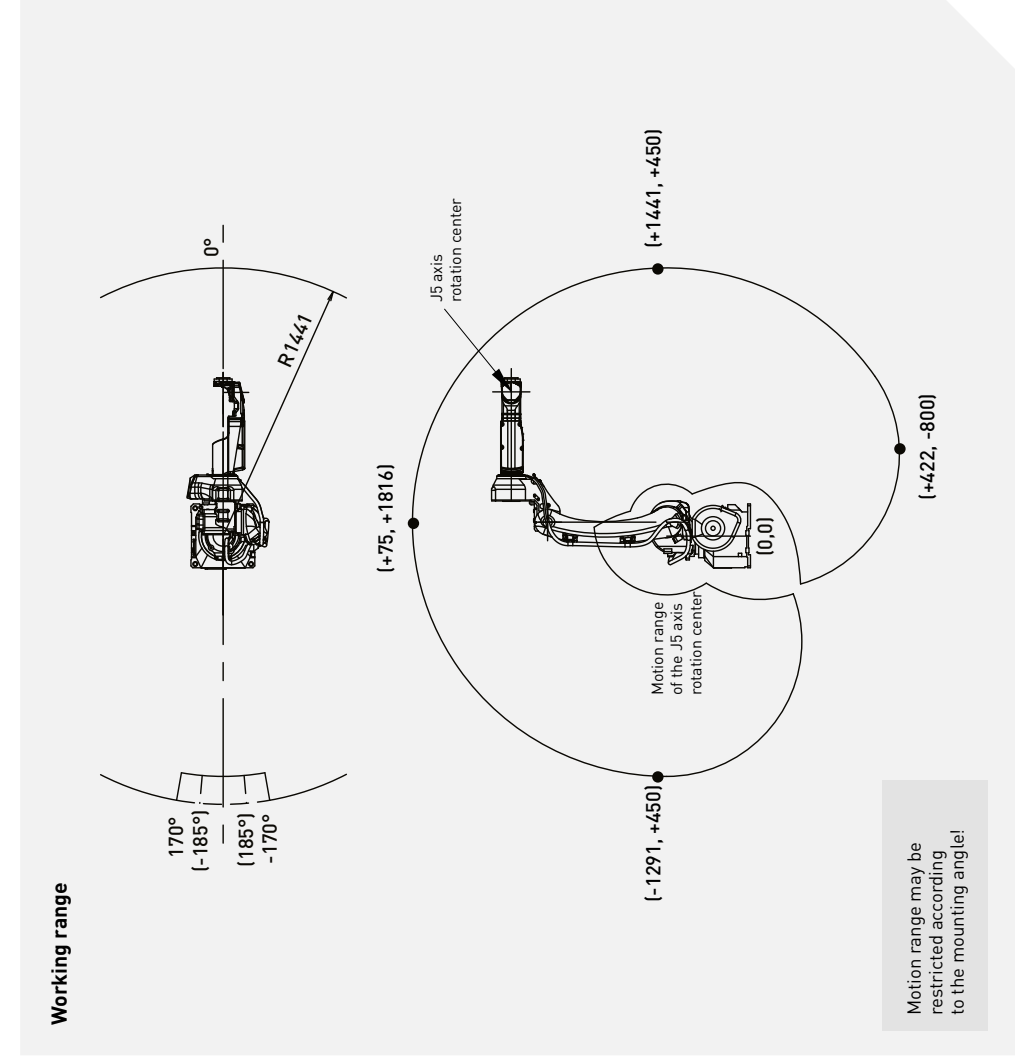
Max. load capacity
at wrist: **12 kg**



Max. reach:
1441 mm



Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [%/s]						J4 Moment/Inertia (Nm/kgm ²)	J5 Moment/Inertia (Nm/kgm ²)	J6 Moment/Inertia (Nm/kgm ²)
			J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6			
6	± 0.02*	14.5	340 [370]	235	450	380	380	900	260	240	430	450	720	26.0/0.90	26.0/0.90	11.0/0.30	



Robot

- Robot footprint [mm] 343 x 343
- Mounting position Floor
- Mounting position Upside down
- Mounting position Angle

Controller

- Open air cabinet
- Mate cabinet
- A-cabinet
- B-cabinet
- iPendant Touch

Electrical connections

- Voltage 50/60Hz 3phase [V] 380-575
- Voltage 50/60Hz 1phase [V] -
- Average power consumption [kW] 1

Integrated services

- Integrated signals on upper arm In/Out 1/1
- Integrated air supply 1

Environment

- Acoustic noise level [dB] < 70
- Ambient temperature [°C] 0-45

Protection

- Body standard/optional IP54
- Wrist & J3 arm standard/optional IP67

ARC Mate 100iD

343 x 343

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• standard ○ on request - not available () with hardware and/or software option

*Based on ISO9283

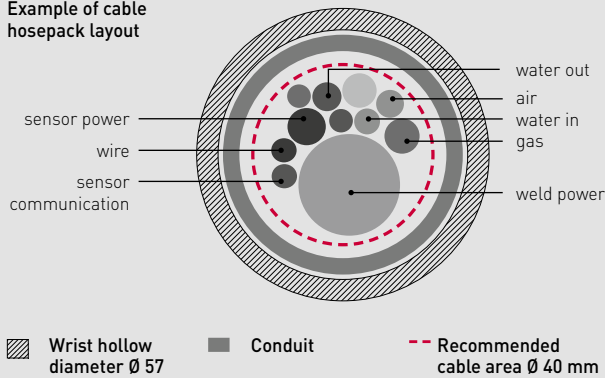
NEW FANUC arc welding robot ARC Mate 100iD



Fully integrated welding hosepack and cable management

- easy routing of the welding dressout and seam tracking sensors cables throughout the robot
- eliminates robot interference with peripherals and work cell equipment
- various dressout configurations suitable for each application
- quickly retrofittable including routing sensor/tooling cables into J3 arm
- improved system reliability and ease of use

Example of cable hosepack layout



Largest hollow wrist in its class (57mm)

- to allow routing torch hosepack as well as additional utilities such as seam tracking sensor cables, vision cables, or air pipes
- compact and fully articulated to reach narrow spaces in jigs and tight fixtures
- shorter J5 offset for high accuracy motion
- smooth appearance with minimum fastener bolts exposed, reducing spatter collection



Largest J1 hollow reducer (108 mm)

- easy routing of welding dressouts, third party supplies and sensor cables from robot flange through axis 1
- allowing the design of more compact welding cells with less interference with peripheral equipment



Easy maintenance

Smooth surfaces keep dirt and spatter build-up to a bare minimum, making it easy to maintain the robot and welding utilities.



Easy to use and quick to install
Seamless integration with welding equipment packages save installation time and cost