

FANUC Robot **CR-4iA, 7iA, 7iA/L**



FEATURES

FANUC Robot CR-4iA, 7iA, 7iA/L are human arm sized mini-collaborative robots.

- CR-4iA (550mm reach), CR-7iA (717mm reach), CR-7iA/L (911mm reach) are available.
- A floor space can be used effectively by up-side down and wall installation.

Collaborative Operation

- This robot and a human operator can work separately in close proximity without safety fences.
- This robot can work in cooperation with a human operator. (examples: parts assembling, workpiece transfer)

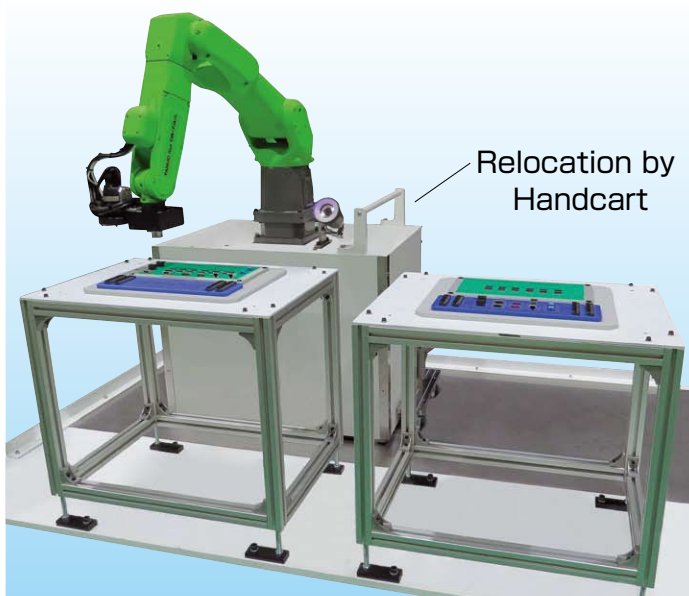
Safety Function

- This robot stops safely when it touches a human operator.
- A human operator can move the robot by pushing it.
- This robot is certified to meet the requirements of international standard ISO 10218-1.

Intelligence and High Reliability

- Latest intelligent functions such as *iR*Vision (Integrated vision) and force sensor are available.
- This robot is designed with high reliability, based on the proven LR Mate models.

Application Examples

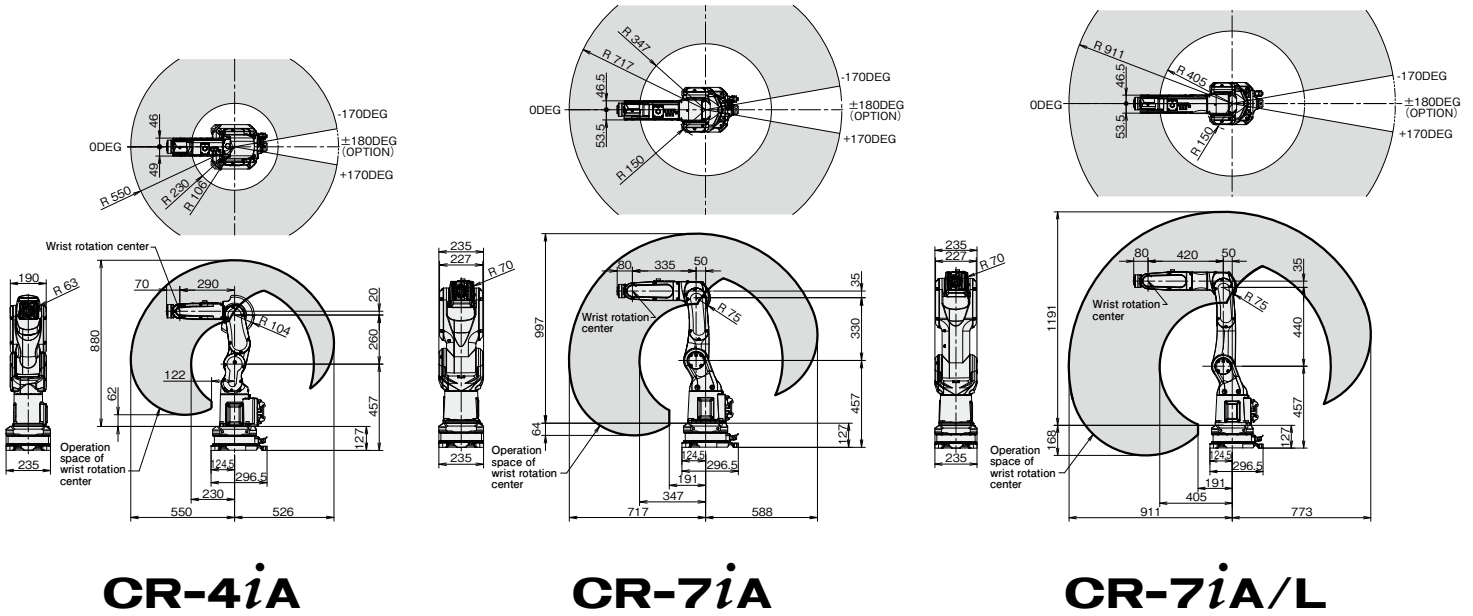


Circuit Board Assembly



Apply Adhesive to Windshield (Up-side Down)

Operating space



CR-4iA

CR-7iA

CR-7iA/L

Specifications

Model	CR-4iA	CR-7iA	CR-7iA/L	
Controlled axes	6 axes (J1, J2, J3, J4, J5, J6)			
Reach	550 mm	717 mm	911 mm	
Installation (Note 1)	Floor, Upside-down, Wall			
Motion range	J1 axis	340° 5.93 rad	340° 5.93 rad	340° 5.93 rad
	J2 axis	150° 2.61 rad	166° 2.89 rad	166° 2.89 rad
	J3 axis	354° 6.17 rad	373° 6.51 rad	383° 6.68 rad
	J4 axis	380° 6.63 rad	380° 6.63 rad	380° 6.63 rad
	J5 axis	200° 3.49 rad	240° 4.18 rad	240° 4.18 rad
	J6 axis	720° 12.57 rad	720° 12.57 rad	720° 12.57 rad
Max. load capacity at wrist (Note 2)	4 kg	7 kg	7 kg	
Maximum speed (Note 3)	500 mm/s (Max 1000 mm/s Note 4)			
Allowable load moment at wrist	J4 axis	8.86 N·m	16.6 N·m	16.6 N·m
	J5 axis	8.86 N·m	16.6 N·m	16.6 N·m
	J6 axis	4.90 N·m	9.4 N·m	9.4 N·m
Allowable load inertia at wrist	J4 axis	0.20 kg·m ²	0.47 kg·m ²	0.47 kg·m ²
	J5 axis	0.20 kg·m ²	0.47 kg·m ²	0.47 kg·m ²
	J6 axis	0.067 kg·m ²	0.15 kg·m ²	0.15 kg·m ²
Repeatability	±0.02 mm			
Mass (Note 5)	48 kg	53 kg	55 kg	
Installation environment	Ambient temperature : 0 to 45°C Ambient humidity : Normally 75 %RH or less (No dew nor frost allowed) Short term Max.95 %RH or less (within one month) Vibration acceleration : 4.9 m/s ² (0.5G) or less			

Note 1) In case of the wall mount, the operation space will be restricted according with the payload.

Note 2) A total weight including the equipment and connection cables and its swing must not exceed this value when you install the equipment.

Note 3) During short distance motions, the speed may not reach the maximum value stated.

Note 4) If the area is monitored by a safety sensor (located separately).

Note 5) Without controller.

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