FANUC Robot CR-4iA, 7iA, 7iA/L FANUC Robot CR-14iA/L



FEATURES

FANUC Robot CR-4iA, 7iA, 7iA/L, and 14iA/L are human arm sized mini-collaborative robots.

- 4 models with different load capacity and reach are available, depending on the application.
- 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)
- With Small Hand Guidance(option), intuitive operation and easy teaching are possible.

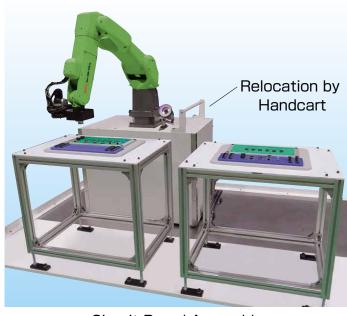
Safety Function

- 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.

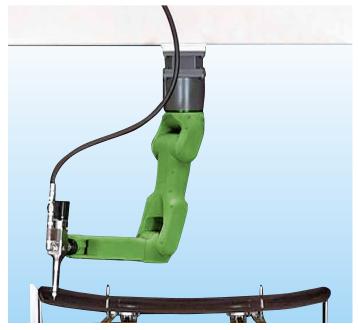
Intelligence and High Reliability

- Latest intelligent functions such as iRVision (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

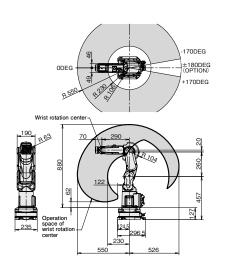


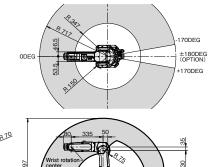
Apply Adhesive to Windshield (Up-side Down)

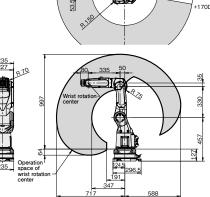
CR-41A

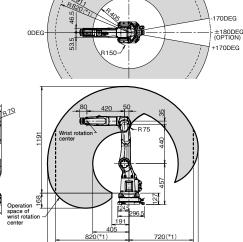
CR-71A

CR-71A/L CR-141A/L









(*1) In case of CR-14iA/L with 12kg load or more

Specifications

Model		$CR ext{-}4iA$	CR-7 <i>i</i> A	CR-7 <i>i</i> A/L	CR-14 <i>i</i> A/L
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)			
Reach		550 mm	717 mm	911 mm	911 mm (load capacity <12kg) 820 mm (load capacity ≧12kg)
Installation (Note 1)		Floor, Upside-down, Angle mount			
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	14 kg
Maximum speed (Note 3, Note 4)		1000 mm/s			500 mm/s
Allowable load moment at wrist	J4 axis	8.86 N·m	16.6 N⋅m	16.6 N·m	31.0 N⋅m
	J5 axis	8.86 N·m	16.6 N⋅m	16.6 N⋅m	31.0 N⋅m
	J6 axis	4.90 N·m	9.4 N·m	9.4 N·m	13.4 N·m
Allowable load inertia at wrist	J4 axis	0.20 kg·m²	0.47 kg·m²	0.47 kg·m²	0.66 kg⋅m²
	J5 axis	0.20 kg·m²	0.47 kg·m²	0.47 kg·m²	0.66 kg⋅m²
	J6 axis	0.067 kg·m²	0.15 kg·m²	0.15 kg·m²	0.30 kg⋅m²
Repeatability (Note 5)		±0.01 mm			
Mass (Note 6)		48 kg	53 kg	55 kg	
Installation environment		Ambient temperature Ambient humidity Vibration acceleration	 0 to 45°C Normally 75 %RH or less (No dew nor frost allowed) Short time (within one month) Max.95%RH 4.9 m/s² (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) It is necessary to set a motion speed according to risk assessment of system.
- Note 5) Compliant with ISO9283.
- Note 6) Without controller.

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