

FANUC Robot CR-35iA



FEATURES

FANUC Robot CR-35iA is a 35 kg payload collaborative robot that can work without safety fences.

Collaborative Operation

- This robot and a human operator can work together within a shared workspace without safety fences.
- This robot can work in cooperation with a human operator. (example: heavy workpiece transfer, parts assembling)
- With Hand Guidance(option), intuitive operation and easy teaching are possible.

Safety Function

- This robot stops safely when it touches a human operator.
- Safe and gentle looking green soft cover reduces an impact force and prevents a human operator from being pinched.
- CR-35iA is certified to meet the requirements of international standard ISO 10218-1.

Intelligence and High Reliability

- Latest intelligent functions such as iRVision (Integrated vision) are available.
- This robot is designed with the same high reliability as conventional robots.

Application Example

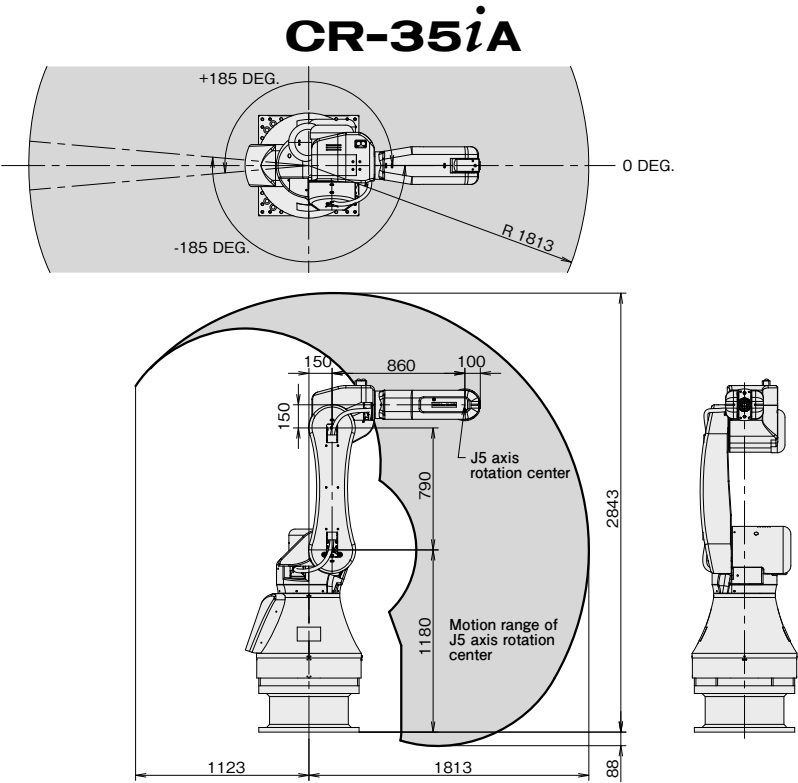


Parts assembly by collaborative operation



Workpiece transfer with Hand Guidance

Operating space



Specifications

Model		CR-35iA	
Type		Articulated Type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		1813 mm	
Installation		Floor	
Motion range	J1 axis rotation	340° / 370°(Option) 5.93 rad / 6.46 rad(Option)	
	J2 axis rotation	165°	2.88 rad
	J3 axis rotation	258°	4.50 rad
	J4 axis wrist rotation	400°	6.98 rad
	J5 axis wrist swing	220°	3.84 rad
	J6 axis wrist rotation	900°	15.71 rad
Max. load capacity at wrist		35 kg	
Max. load capacity on J3 casing		2 kg	
Maximum speed (Note 1, Note 2)		750 mm/s	
Allowable load moment at wrist	J4 axis	110 N·m	
	J5 axis	110 N·m	
	J6 axis	60 N·m	
Allowable load inertia at wrist	J4 axis	4.00 kg·m ²	
	J5 axis	4.00 kg·m ²	
	J6 axis	1.50 kg·m ²	
Drive method		Electric servo drive by AC servo motor	
Repeatability (Note 3)		±0.03 mm	
Mass (Note 4)		990 kg	
Installation environment		Ambient temperature	: 0 to 45°C
		Ambient humidity	: Normally 75 %RH or less (No dew nor frost allowed) Short time (within one month) Max.95%RH
		Vibration acceleration	: 4.9 m/s ² (0.5G) or less

Note 1) In case of short distance motion, the speed may not reach the maximum value stated.
Note 2) It is necessary to set a motion speed according to risk assessment of system.
Note 3) Compliant with ISO9283.
Note 4) Without controller.

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