

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)

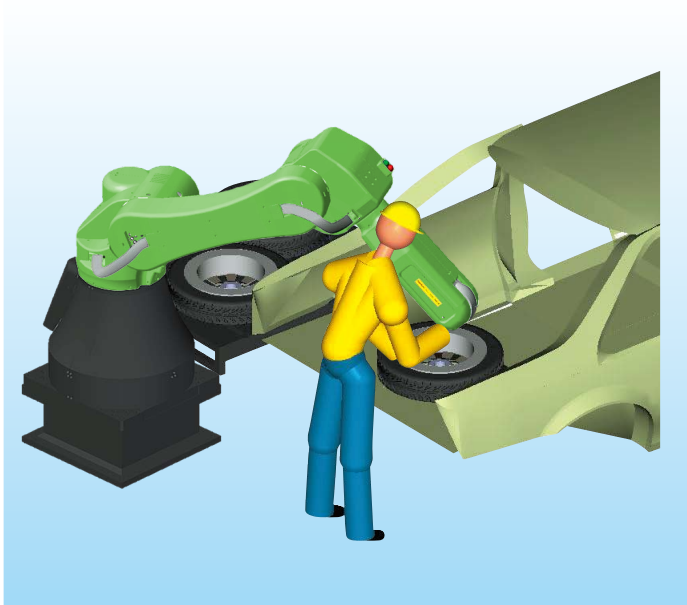
Safety Function

- 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.

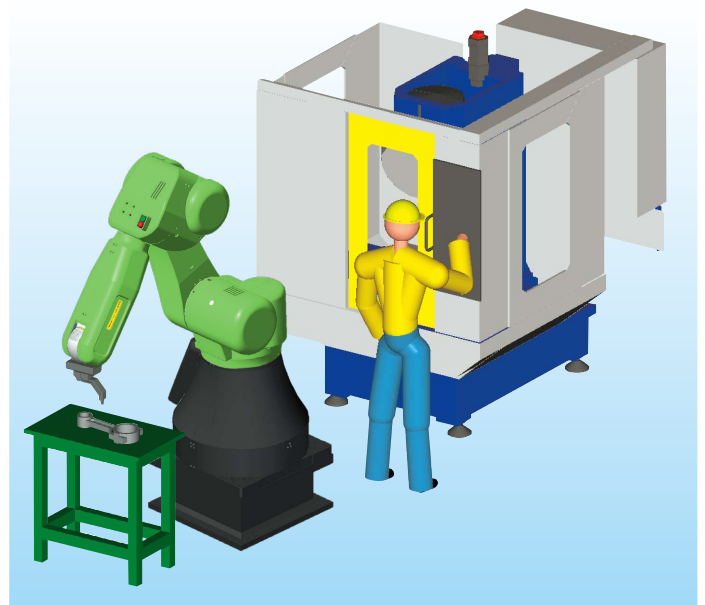
Intelligence and High Reliability

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

Application Example

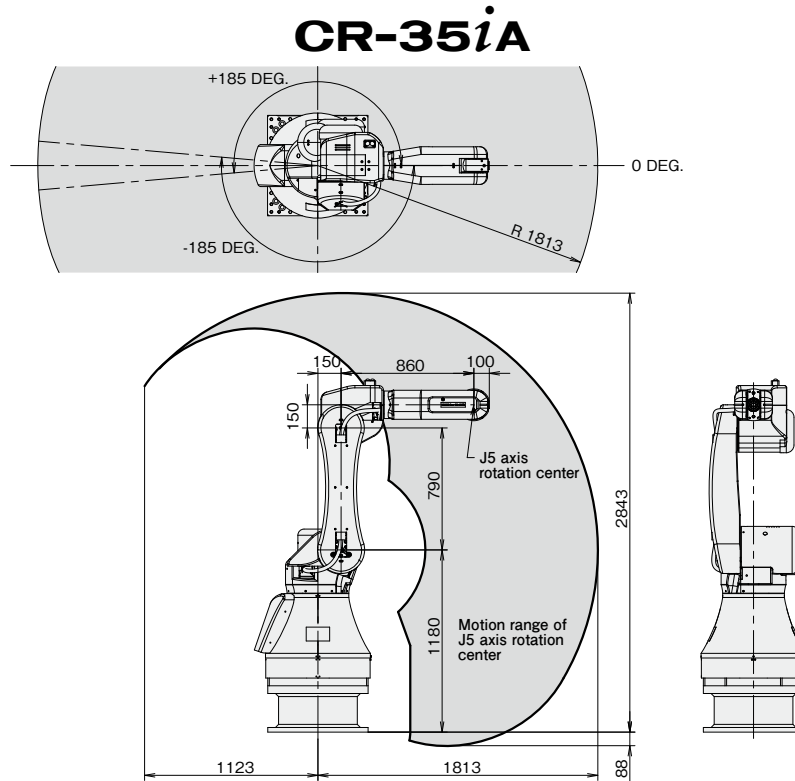


Tire Loading to Automobile



Workpiece Loading to Machine

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	312°	5.45 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)		250 mm/s(Max. 750 mm/s, Note 2)	
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		±0.08 mm	
Mass (Note 3)		990 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 short distance motion, the speed may not reach the maximum value stated.

Note 2) If the area is monitored by a safety sensor (located separately).

Note 3) Without controller.

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