

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 *i*RVision (Integrated vision) are available.
- This robot is designed with the same high reliability as conventional robots.

Application Example

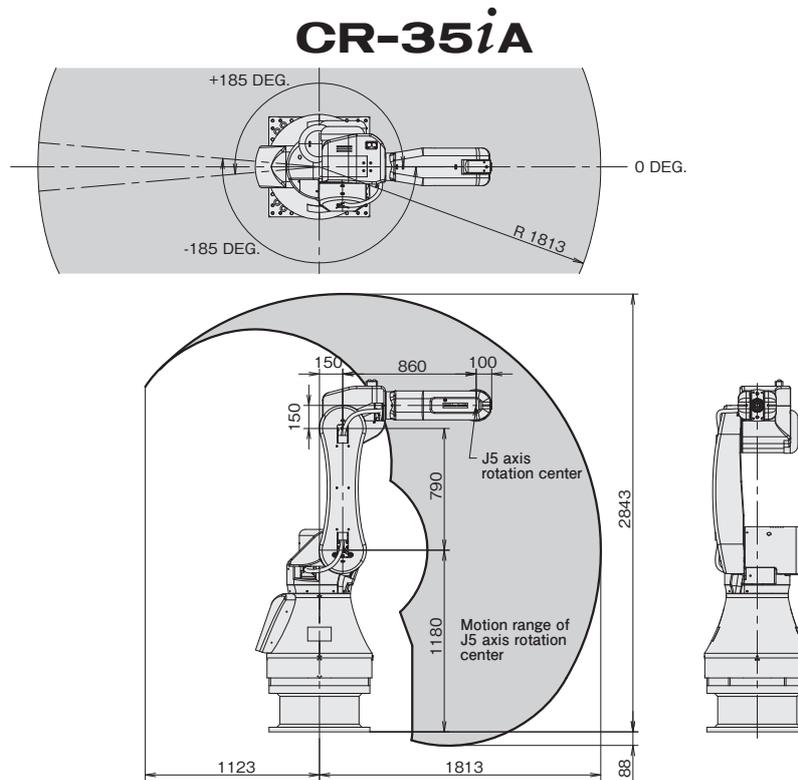


Parts assembly by collaborative operation



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.

FANUC CORPORATION

Headquarters Oshino-mura, Yamanashi 401-0597, Japan

Phone: 81-555-84-5555 Fax: 81-555-84-5512 <https://www.fanuc.co.jp>

●Overseas Affiliated Companies
 FANUC America Corporation
 FANUC Europe Corporation, S.A.
 SHANGHAI-FANUC Robotics CO., LTD.
 KOREA FANUC CORPORATION
 TAIWAN FANUC CORPORATION
 FANUC INDIA PRIVATE LIMITED
 FANUC SINGAPORE PTE. LTD.
 FANUC THAI LIMITED
 FANUC MECHATRONICS (MALAYSIA) SDN. BHD.
 PT. FANUC INDONESIA
 FANUC OCEANIA PTY. LIMITED
 FANUC SOUTH AFRICA (PROPRIETARY) LIMITED

3900 West Hamlin Road, Rochester Hills, MI 48309-3253, U.S.A.
 Zone Industrielle, L-6468 Echternach, Grand-Duché de Luxembourg
 No. 1500 Fulian Road, Baoshan Area, Shanghai, China
 101, Wanam-ro(st), Seongsan-gu, Changwon-si, Gyeongsangnam-do, 642-290 Republic of Korea
 No.10, 16th Road, Taichung Industrial Park, Taichung, Taiwan
 41-A, Electronics City, Bangalore, 560 100, India
 No.1 Teban Gardens Crescent, Singapore 608919, Singapore
 1301 Pattanakarn Road, Kwaeng Suanluang, Khet Suanluang, Bangkok 10250 Thailand
 No.32, Jalan Pengacara U1/48, Temasya Industrial Park, Section U1, Glenmarie,
 40150 Shah Alam, Selangor Darul Ehsan, Malaysia
 JL. Boulevard Bukit Gading Raya Blok R, Jakarta 14240 Indonesia
 10 Healey Circuit, Huntingwood, NSW 2148, Australia
 17 Loper Ave. Aeroport Industrial Ests. Spartan Ext.2 P.O.Box 219, Isando 1600, Republic of South Africa

Phone: 1-248-377-7000 Fax: 1-855-774-7051
 Phone: 352-727777-1 Fax: 352-727777-403
 Phone: 86-21-5032-7700 Fax: 86-21-5032-7711
 Phone: 82-55-278-1200 Fax: 82-55-284-9826
 Phone: 886-4-2359-0522 Fax: 886-4-2359-0771
 Phone: 91-80-2852-0057 Fax: 91-80-2852-0051
 Phone: 65-6567-8566 Fax: 65-6566-5937
 Phone: 66-2-714-6111 Fax: 66-2-714-6120
 Phone: 60-3-7628-0110 Fax: 60-3-7628-0220
 Phone: 62-21-4584-7285 Fax: 62-21-4584-7288
 Phone: 61-2-8822-4600 Fax: 61-2-8822-4666
 Phone: 27-11-392-3610 Fax: 27-11-392-3615

- All specifications are subject to change without notice.
- No part of this catalog may be reproduced in any form.
- The products in this catalog are controlled based on Japan's "Foreign Exchange and Foreign Trade Law". The export from Japan may be subject to an export license by the government of Japan. Further, re-export to another country may be subject to the license of the government of the country from where the product is re-exported. Furthermore, the product may also be controlled by re-export regulations of the United States government. Should you wish to export or re-export these products, please contact FANUC for advice.