FANUC

Considering Automating with Collaborative Robots?

THINK CRX

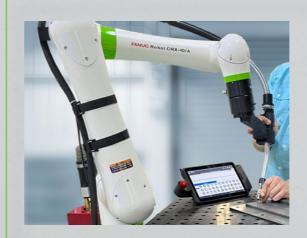


Why settle for less when you can get MORE?

FANUC's series of collaborative robots, also known as cobots, offer more choices, payloads, reach and speeds than any other cobots on the market. Safety-certified, FANUC cobots will add value to your process by working hand-in-hand with your team, whether they are experienced or first-time automation users. More choices for more businesses



Do you run a small- or medium-sized company, and this is the first time you've thought about adding automation? If so, consider a FANUC cobot. Quick to install, easy to use and offering unrivalled reliability, they represent a lasting solution that will boost your productivity and provide new growth opportunities. They also offer a quick return on investment. Let FANUC help you find the right cobot solution to meet your needs!



Easy and Intuitive

Our interactive programming gives you the freedom to teach points using built-in hand guidance function or a tablet interface with drag and drop icons.

The *i*HMI editor provides step-by-step guides to set up your cobot, create programs and has tutorials for new users. In addition, all of our cobots are sensitive enough to stop at a touch and restart at the push of a button.

MORE versatility and MORE precision

Key Features

INTEGRATION

Integration has never been easier thanks to our cobots' lightweight, slim, and compact design

USABILITY

Ready for business in no time: the FANUC CRX series is quick to set up and exceedingly easy to program

SERVICE

Enjoy 8 years of maintenance-free operations







CRX-5iAPayload: 5 kg
Reach: 994 mm

CRX-10*i*A

Payload: 10 kg

Reach: 1,249 mm

CRX-10*i*A/L Payload: 10 kg Reach: 1,418 mm CRX-20iA/L Payload: 20 kg Reach: 1,418 mm CRX-30iA

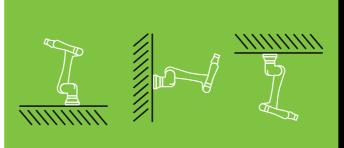
Payload: 30/25 kg Reach: 1,756/1,889* mm *Operating space is expanded when 25kg payload mode is selected CRX-10*i*A/L Paint Payload: 10 kg Reach: 1,418 mm





Dual Check Safety (DCS)

DCS is a safety system that monitors position and speed. It is a proven technology used on many standard FANUC robots.



Flexible mounting options

For more flexible layouts, all models can be mounted upside-down, on a wall, or fixed to a mobile platform or rail.

Drag & Drop Programming

Whether you are a seasoned programmer or a first-time operator – FANUC cobots provide you with user-friendly and intuitive programming. Furthermore, you can also select:

Easy programming with Tablet Teach Pendant

- FANUC's Tablet Teach Pendant is designed for intuitive programming, thanks to a large touch screen
- Additional drag & drop functionality lets you easily program an application within minutes
- Two interfaces are available:
- · New User Interface for beginners
- · iPendant User Interface for experienced operators

Easy programming with iHMI on iPendant Touch

- FANUC's *i*HMI user interface offers ample processing power and clear high-resolution screen displays
- Display setup, programming guides and tutorials are all readily accessible from the main home screen
- 30 minutes that's all it takes to create a program for simple handling tasks, thanks to FANUC's programming guide



EASY teaching without programming



By leading it through paths and points, you can now easily teach your FANUC collaborative robot. Additionally, hand guidance is comfortable and intuitive, thereby eliminating the need for a pendant to teach the device positions.

This will not only save you valuable time, but also money – as training costs can therefore be kept to a minimum.



New user interface

MORE reliability

All of FANUC's CRX series robots use proven FANUC technology and a familiar interface. As a result, the collaborative robots operate like any other FANUC robot with exactly the same high degree of reliability, uptime, dexterity and world class +/- 0.01-0.05 mm repeatability.



More features

With more than 250 software features, FANUC's R-30iB Plus controller guarantees the best processing speed and robot performance for every FANUC cobot. Designed for increased user-friendliness and minimal energy consumption, the R-30iB Plus comes in five different cabinets to help you make the most of your floor space and production cell layouts. With the addition of the CRX line, the R-30iB family expanded to include the R-30iB Mini Plus Controller for even more space savings.

Proven technology

For more reliability, all FANUC cobots are based on proven FANUC technology. They offer exceptional repeatability and come with the standard FANUC interface for easy learning, programming and setup. As a result, no extensive retraining is necessary. Application scenarios can be easily modeled using ROBOGUIDE simulation software. FANUC cobots are customizable and include a large number of options. They are also backed by full spare parts availability, global service and 24/7 support.



MORE possibilities

As with all FANUC robots, FANUC's collaborative robot series can be equipped with any of FANUC's intelligence functions - made by FANUC, developed specifically for FANUC robots, to give you more possibility for automating with cobots. Intelligence-ready functions include FANUC 2D and 3D vision sensors using *i*RVision and much more.



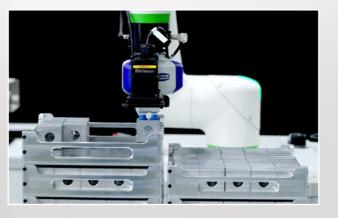
Collaborative arc welding

FANUC's collaborative arc welding robots offer the same high level of performance that FANUC ARC Mate robots are known for including world-renowned technology and proven reliability. FANUC's arc welding cobots are equipped with FANUC ArcTool application software, an easy programming interface that supports both simple and complex applications.



Palletizing for boosting productivity and worker safety

FANUC's CRX-30*i*A cobot has an enhanced 30kg payload capacity and long 1,756 mm reach, making it perfect for palletizing applications. It can also be equipped with 3DV *i*RVision, which enables the cobot to locate and pick products on a pallet and place them onto another pallet or a platform part of an Automated Storage & Retrieval System (ASRS).



Recognition, reading and sorting

For the CRX series, new vision features include simple vision setup for beginners using the Tablet TP and drag & drop icons.

Vision features such as 1-marker and 3-marker offset for locating equipment are available when the robot is on a mobile hand-cart or AGV or AMR.

MORE collaborative opportunities with **FANUC** cobots

Key Industries





AGRICULTURE



AUTOMOTIVE



CONSUMER GOODS



DIE CAST, **FOUNDRY & MOLD**



ELECTRONICS



FABRICATED METALS



F00D & BEVERAGE





LIFE SCIENCES





PLASTICS



WAREHOUSING



WOODWORKING



ASSEMBLING

Cobots are ideally suited to take over repetitive or complex assembly tasks while delivering a precise and consistent output.



GRINDING AND DEBURRING

Tasks which involve removing material can easily be carried out by cobots, adding flexibility, efficiency, and quality to the process.



HANDLING

FANUC Vision and Force accessories can quickly be connected to cobots so as to cover a variety of different handling operations.



MACHINE TENDING

When it comes to repetitive operations such as machine tending, cobots help improve your process speed and quality while at the same time keeping operators safe.



PARTS INSPECTION AND TESTING

Easy to program, FANUC cobots can carry out inspecting operations while assuring accurate production batches and product quality.



PICKING, PACKING, PALLETIZING

The payloads and reaches of FANUC cobots make them suitable to a wide range of handling tasks, relieving operators from heavy



SANDING AND POLISHING

Equipping cobots with FANUC Force Sensor assures the precision and correct force needed for these kinds of operations.



PAINTING

The CRX-10iA/L Paint collaborative robot offers flexible automation to more paint and coating operations, including high-mix, low-volume applications.



SEALING AND

DISPENSING Dispensing tasks like gluing and sealing can be efficiently carried over by cobots.



WELDING

FANUC cobots are capable of offering consistent weld quality, on top of being easy to teach and program.

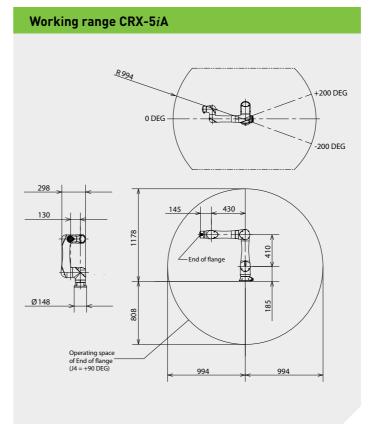


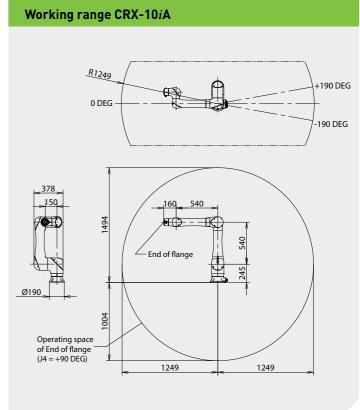
MORE information

Specifications	CRX-5 <i>i</i> A	CRX-10iA	CRX-10iA/L	CRX-20iA/L	CRX-30iA
Туре	5	10	10	20	30
Controlled axes	6	6	6	6	6
Max. load capacity at wrist [kg]	5	10	10	20	30/25
Reach [mm]*1)	994	1,249	1,418	1,418	1,756/1,889*4
Repeatability [mm] *3	±0.03	±0.04	±0.04	±0.04	±0.05
Mass [kg]	25	40	40	41	135
Installation: floor upside down wall	• • •	• • •	• • •	• • •	• • •
Motion range					
J1 axis rotation [°]	400	380	360	360	360
J2 axis rotation [°]	360	360	360	360	360
J3 axis rotation [°]	635	570	540	540	540
J4 axis wrist rotation [°]	380	380	380	380	380
J5 axis wrist swing [°]	360	360	360	360	360
J6 axis wrist rotation [°]	450	450	450	450	450
Max. speed: Collaborative mode [mm / s] *2	1,000	1,000	1,000	1,000	1,000
Max. speed: High speed mode [mm/s] *2	2,000	2,000	2,000	1,000	2,000
Allowable load moment at wrist					
J4 axis [Nm]	19.0	34.8	34.8	70.0	100.0
J5 axis [Nm]	15.4	26.0	26.0	64.0	74.0
J6 axis [Nm]	6.7	11.0	11.0	30.0	32.0
Allowable load inertia at wrist					
J4 axis [kgm²]	0.77	1.28	1.28	4.00	4.70
J5 axis [kgm²]	0.50	0.90	0.90	4.00	4.00
J6 axis [kgm²]	0.10	0.30	0.30	2.00	2.00
Installation environment					
Input power source [VAC]	100-120 200-240	100-120 200-240	100-120 200-240	100-120 200-240	100-120 200-240
Ambient operating temperature [°C]	0-45	0-45	0-45	0-45	0-45
Protection					
Body standard/optional	IP67	IP67	IP67	IP67	IP67
Wrist & J3 arm standard/optional	IP67	IP67	IP67	IP67	IP67

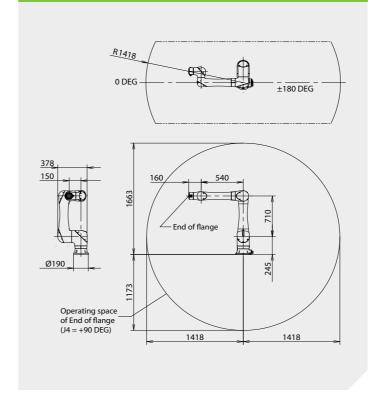
standard

Technical data CRX series

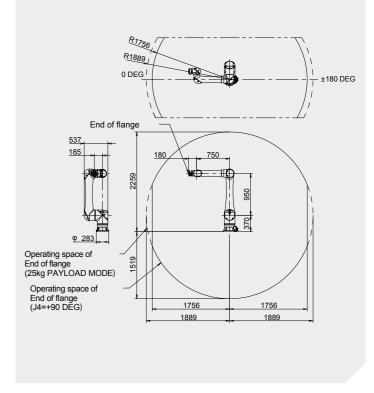




Working range CRX-10iA/L and CRX-20iA/L



Working range CRX-30*i*A



^{*1)} Reach specification from faceplate

^{*2)} It is necessary to set a motion speed according to risk assesment of system.

^{*3)} Compliant with ISO9283.

^{*4)} Operating space is expanded when 25kg payload mode is selected

CRX Food Series

FANUC CRX food-grade collaborative robots (cobots) are specifically designed for use in food and beverage manufacturing environments.

Key Features

Rated IP67, FANUC's CRX food-grade cobots are dust-tight and waterproof and can operate in harsh food production environments without compromising performance.

The wrist features a corrosion-resistant finish.

A smooth surface and fully enclosed design with internal cable routing makes it easy to clean.

Epoxy coating is compliant with USDA Incidental Food Contact Requirements.

Uses NSF H1 food-grade grease which is safe for incidental food contact.

CRX-5*i***A Food Grade** Payload: 5 kg Reach: 994 mm

CRX-10iA Food Grade

Payload: 10 kg Reach: 1,249 mm **CRX-10***i***A/L Food Grade** Payload: 10 kg Reach: 1,418 mm



Is a FANUC CRX Food-Grade Cobot Right for You?

If your production involves food handling, wet environments, or has rigorous hygiene requirements, a FANUC CRX food-grade cobot is a great choice.



CRX-20iA/L Food Grade

Payload: 20 kg Reach: 1,418 mm

CRX-30iA Food Grade

Payload: 30/25 kg Reach:1,756/1,889* mm *Operating space is expanded when 25kg payload mode is selected

MORE information

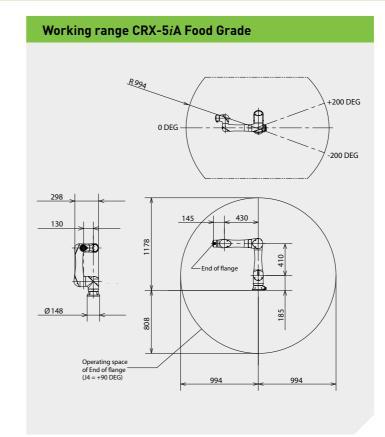
Features:

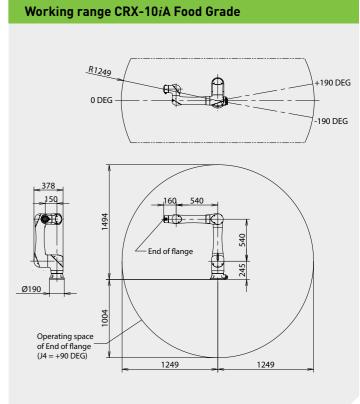
NSF H1 food-grade grease White USDA compliant epoxy coating

Specifications	CRX-5 <i>i</i> A Food Grade	CRX-10 <i>i</i> A Food Grade	CRX-10iA/L Food Grade	CRX-20iA/L Food Grade	CRX-30 <i>i</i> A Food Grade
Туре	5	10	10	20	30
Controlled axes	6	6	6	6	6
Max. load capacity at wrist [kg]	5	10	10	20	30/25
Reach [mm]*1)	994	1,249	1,418	1,418	1,756/1,889*4
Repeatability [mm] *3	±0.03	±0.04	±0.04	±0.04	±0.05
Mass [kg]	25	40	40	41	135
Installation: floor upside down wall	• • •	• • •	• • •	• • •	• • •
Motion range					
J1 axis rotation [°]	400	380	360	360	360
J2 axis rotation [°]	360	360	360	360	360
J3 axis rotation [°]	635	570	540	540	540
J4 axis wrist rotation [°]	380	380	380	380	380
J5 axis wrist swing [°]	360	360	360	360	360
J6 axis wrist rotation [°]	450	450	450	450	450
Max. speed: Collaborative mode [mm / s] *2	1,000	1,000	1,000	1,000	1,000
Max. speed: High speed mode [mm / s] *2	2,000	2,000	2,000	1,000	2,000
Allowable load moment at wrist					
J4 axis [Nm]	19.0	34.8	34.8	70.0	100.0
J5 axis [Nm]	15.4	26.0	26.0	64.0	74.0
J6 axis [Nm]	6.7	11.0	11.0	30.0	32.0
Allowable load inertia at wrist					
J4 axis [kgm²]	0.77	1.28	1.28	4.00	4.70
J5 axis [kgm²]	0.50	0.90	0.90	4.00	4.00
J6 axis [kgm²]	0.10	0.30	0.30	2.00	2.00
Installation environment					
Input power source [VAC]	100-120 200-240	100-120 200-240	100-120 200-240	100-120 200-240	100-120 200-240
Ambient operating temperature [°C]	0-45	0-45	0-45	0-45	0-45
Protection					
Body standard/optional	IP67	IP67	IP67	IP67	IP67
Wrist & J3 arm standard/optional	IP67	IP67	IP67	IP67	IP67

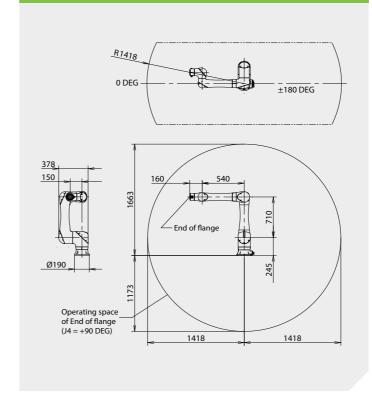
• standard

Technical data CRX food series

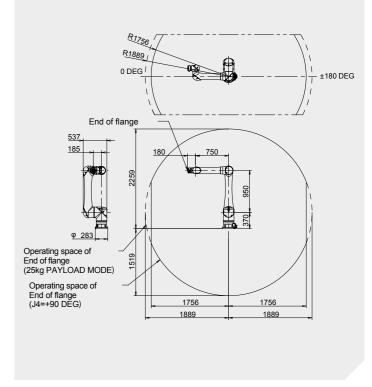




Working range CRX-10iA/L and CRX-20iA/L Food Grade



Working range CRX-30iA Food Grade

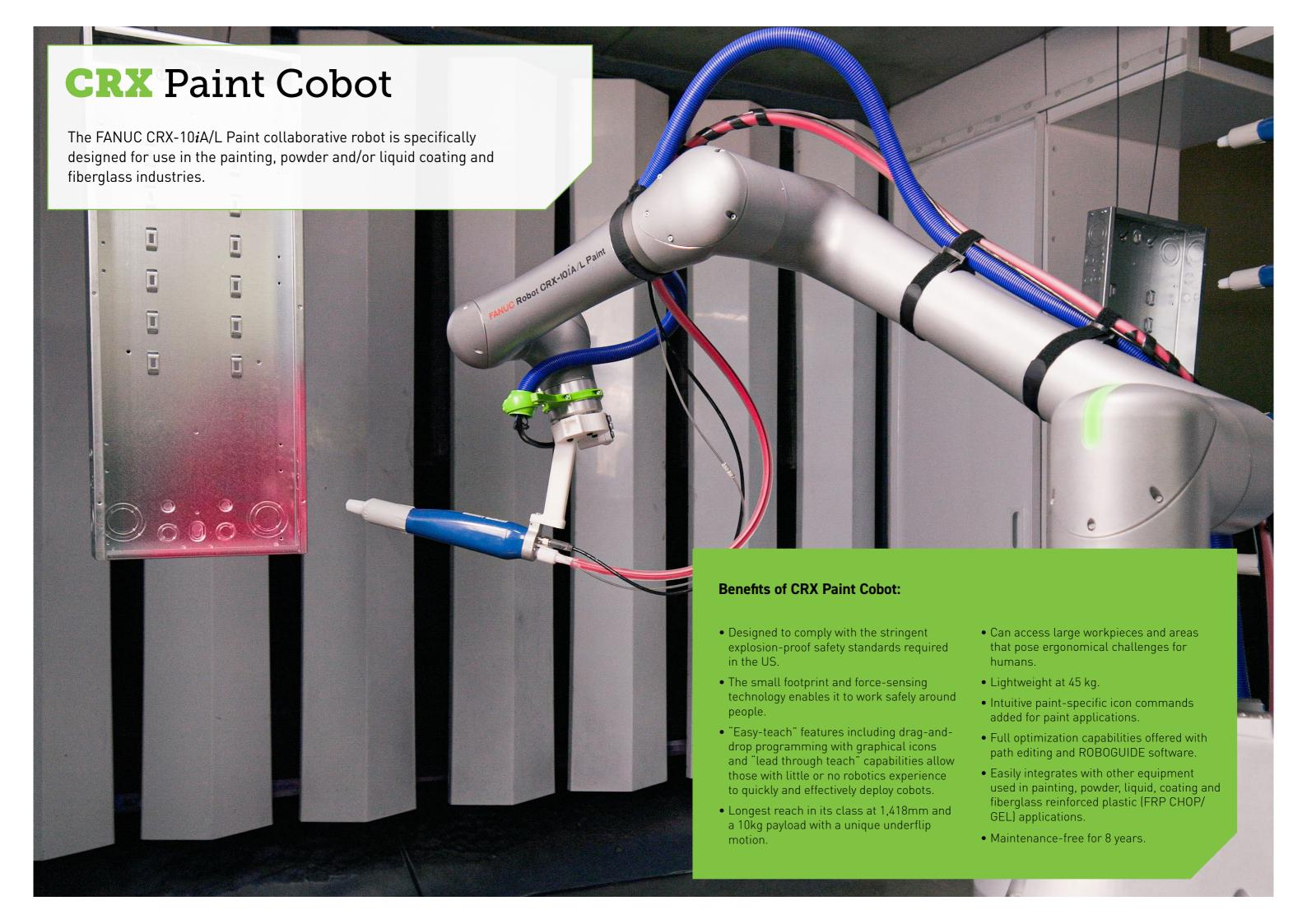


^{*1)} Reach specification from faceplate

^{*2)} It is necessary to set a motion speed according to risk assesment of system.

^{*3)} Compliant with ISO9283.

^{*4)} Operating space is expanded when 25kg payload mode is selected



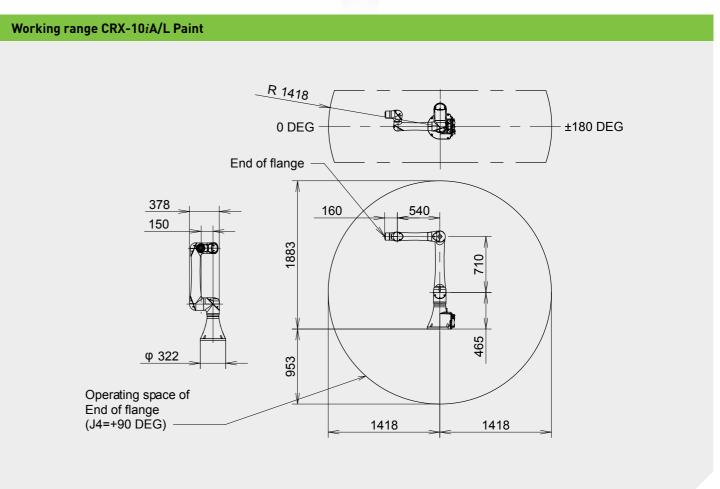
MORE information

Specifications	CRX-10 <i>i</i> A/L Paint		
Туре	10		
Controlled axes	6		
Max. load capacity at wrist [kg]	10		
Reach [mm]*1)	1,418		
Repeatability [mm] *3	±0.04		
Mass [kg]	47		
Installation: floor upside down wall	• • •		
Motion range			
J1 axis rotation [°]	360		
J2 axis rotation [°]	360		
J3 axis rotation [°]	540		
J4 axis wrist rotation [°]	380		
J5 axis wrist swing [°]	360		
J6 axis wrist rotation [°]	450		
Max. speed: Collaborative mode [mm / s] *2	1,000		
Max. speed: High speed mode [mm / s] *2	2,000		
Allowable load moment at wrist			
J4 axis [Nm]	34.8		
J5 axis [Nm]	26.0		
J6 axis [Nm]	11.0		
Allowable load inertia at wrist			
J4 axis [kgm²]	1.28		
J5 axis [kgm²]	0.90		
J6 axis [kgm²]	0.30		
Installation environment			
Input power source [VAC]	100-120 200-240		
Ambient operating temperature [°C]	0–45		
Protection			
Body standard/optional	IP67		
Wrist & J3 arm standard/optional	IP67		

[•] standard

Technical data CRX paint cobot

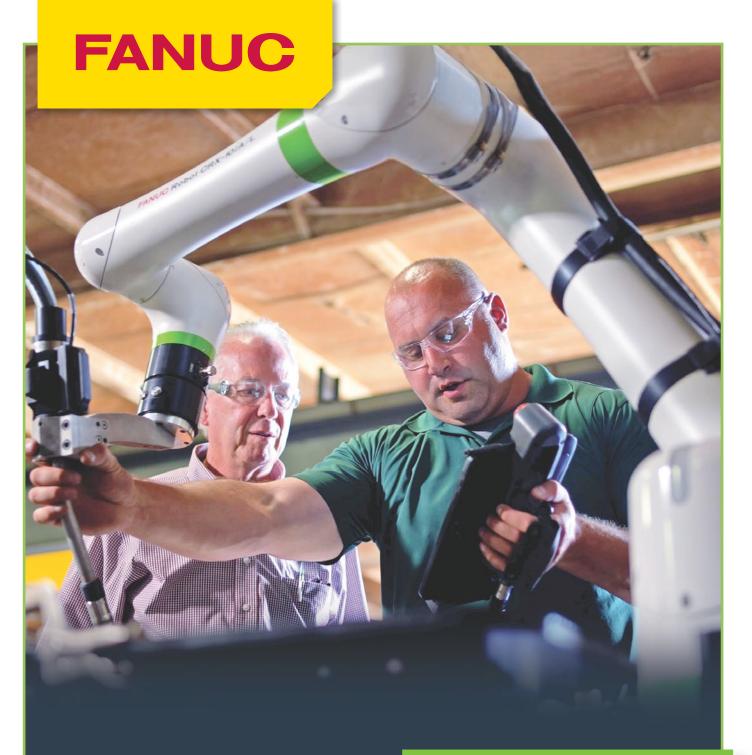




^{*1)} Reach specification from facepla

^{*2)} It is necessary to set a motion speed according to risk assesment of system.

^{*3)} Compliant with ISO9283.



The Most
Extensive
Collaborative
Robot Lineup

...EVER

MORE choices
MORE payload
MORE reach
MORE control