The Most Extensive Collaborative Robot Lineup

...EVER
Why settle for less when you can get MORE?

FANUC’s CR and CRX series of collaborative robots 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
Programming has never been easier - whether you have a CR or CRX cobot, we've made it extremely easy for new users.

CR Cobot – Hand Guidance Option allows you to teach your CR cobot by leading it through paths. You can also use it as a manual assist to lift heavy objects.

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

Whatever FANUC cobot you choose, the iHMI 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.

8 YEARS
ZERO MAINTENANCE
100% PROVEN INDUSTRIAL RELIABILITY

CRX-5iA
Payload: 5 kg
Reach: 996 mm

CRX-10iA
Payload: 10 kg
Reach: 1,249 mm

CRX-10iA/L
Payload: 10 kg
Reach: 1,418 mm

CRX-20iA/L
Payload: 20 kg
Reach: 1,418 mm

CRX-25iA
Payload: 25/30 kg
Reach: 1,899/1,754 mm
*Operating space is restricted when 30 kg payload mode is selected.
MORE capacity MORE collaboration

Key Features

WIDE RANGE
Experience wide-ranging payloads – from 4 up to 50 kg – and reach all CR series offers the right solution for a large variety of applications.

STRONGEST COBOT ON THE MARKET
With a payload up to 50 kg, the FANUC CR-35iA is by far the strongest robot on the market today. Its combination of load capacity, extensive reach, and dependable safety certification make it ideally suited for an extensive spectrum of processes involving heavy lifting and handling.

CR-4iA
Payload: 4 kg
Reach: 550 mm

CR-5iA
Payload: 7 kg
Reach: 717 mm

CR-7iA/L
Payload: 7 kg
Reach: 911 mm

CR-14iA/L
Payload: 14 kg
Reach: 911 mm

CR-15iA
Payload: 15 kg
Reach: 1,641 mm

CR-35iA
Payload: 35/50* kg
Reach: 1,831/1,643** mm

*Option required
**Operating space is restricted when 50 kg mode is selected
MORE freedom and flexibility

The FANUC CR and CRX series can work side by side with people or collaborate with them without the need for external safety devices (in accordance with risk assessment). As a result, you enjoy better versatility and work ergonomics, benefit from flexible mounting options and save valuable production space.

ISO-certified safe to work with people

These collaborative robots are ISO 10218-1 and ISO 13869-1 certified and equipped with ultra-safe FANUC contact stop detection based on proven sensor technology. Highly sensitive contact stop function stop the robot smoothly even with light contact of people and all robots restart easily and quickly after a contact stop. In addition to contact stop, the CR and CRX series robots come with push to escape functions to be able to push the robot out of the way manually for additional safety. In addition, the robot will retract immediately when it contacts hard objects to minimize a pinching force. Speed and safety settings can be customized to help you adapt each collaborative robot to meet your exact specifications.

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. On the CR series, third-party safety equipment can be connected to DCS to provide an additional level of safety and increase productivity.

Flexible mounting options

For more flexible layouts, all models except the CR-35iB can be mounted upside-down, on a wall, or fixed to a mobile platform or rail.
**EASY 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 iHMI 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.

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**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.

While the CRX series was designed with manual guidance in mind, the CR series was built for heavier applications, and therefore requires a separate hand guidance model.
MORE reliability

All of FANUC’s CR and 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 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 iRVision and much more.

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 ROBOTGUIDE 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.

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.

3D bin picking

Opening up a wealth of possibilities, the 3D Vision Sensor even enables robots to detect randomly piled parts including shiny, multi-colored or semi-transparent items. Attached to the robot arm or a gantry, the FANUC 3D Vision Sensor is easy to set up using the iPendant handheld controller or PC.

Recognition, reading and sorting

Using the Vision Sensor, the CR series is capable of locating workpieces, reading bar codes and sorting by color.

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

- AUTOMOTIVE
- LOGISTICS
- PHARMACY
- FOOD
- TIER1

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 safely 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 robots can carry out inspecting operations while ensuring accurate production batch and product quality.

PICKING, PACKING, PALLETISING
The payloads and reach of FANUC robots make them suitable for applications, a world of handling tasks, relieving operators from heavy lifting.

SANDING AND POLISHING
Equipping cobots with FANUC Fevo Sensor assures the precision and correct force needed for these kinds of operations.

SCREWING
FANUC robots can be used in screw driving applications with a tightening torque up to 200Nm (146lbf-ft) – for higher consistency and quality.

SEALING AND DISPENSING
Dispensing tasks like gluing and sealing can be efficiently carried out by cobots.

WELDING
FANUC robots are capable of offering consistent weld quality, on top of being easy to teach and program.
### Specifications

<table>
<thead>
<tr>
<th>Type: articulated</th>
<th>CR-4iA</th>
<th>CR-7iA</th>
<th>CR-7iA/L</th>
<th>CR-14iA/L</th>
<th>CR-15iA</th>
<th>CR-35iB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. load capacity at wrist [kg]</td>
<td>4</td>
<td>7</td>
<td>7</td>
<td>14</td>
<td>15</td>
<td>35/50*</td>
</tr>
<tr>
<td>Reach [mm]**</td>
<td>550</td>
<td>717</td>
<td>911</td>
<td>911**</td>
<td>1,441</td>
<td>1,831/1,643**</td>
</tr>
<tr>
<td>Repeatability (mm)</td>
<td>±0.01</td>
<td>±0.01</td>
<td>±0.01</td>
<td>±0.01</td>
<td>±0.02</td>
<td>±0.03</td>
</tr>
<tr>
<td>Mass (kg)</td>
<td>48</td>
<td>53</td>
<td>55</td>
<td>55</td>
<td>255</td>
<td>375</td>
</tr>
</tbody>
</table>

### Motion range

| J1 axis rotation [*] | 340 | 340 | 340 | 340 | 340 | 370 |
| J2 axis rotation [*] | 150 | 166 | 166 | 166 | 180 | 215 |
| J3 axis rotation [*] | 354 | 373 | 383 | 383 | 312 | 338 |
| J4 axis wrist rotation [*] | 380 | 380 | 380 | 380 | 380 | 400 |
| J5 axis wrist swing [*] | 200 | 240 | 240 | 240 | 280 | 280 |
| J6 axis wrist rotation [*] | 720 | 720 | 720 | 720 | 900 | 900 |
| Max. speed [mm / s] | 1,000 | 1,000 | 1,000 | 500 | 800/1,500* | 750 |

### Allowable load moment at wrist

| J4 axis [Nm] | 8.86 | 16.6 | 16.6 | 31.0 | 26.0 | 110 |
| J5 axis [Nm] | 8.86 | 16.6 | 16.6 | 31.0 | 26.0 | 110 |
| J6 axis [Nm] | 4.9 | 9.4 | 9.4 | 13.4 | 11.0 | 60.0 |

### Allowable load inertia at wrist

| J4 axis [kgm²] | 0.20 | 0.47 | 0.47 | 0.46 | 0.90 | 4.00 |
| J5 axis [kgm²] | 0.20 | 0.47 | 0.47 | 0.46 | 0.90 | 4.00 |
| J6 axis [kgm²] | 0.047 | 0.15 | 0.15 | 0.30 | 0.30 | 1.50 |

### Installation environment

| Ambient operating temperature [°C] | 0–45 | 0–45 | 0–45 | 0–45 | 0–45 | 0–45 |

### Protection

| Body standard/optional | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 |
| Wrist & J3 arm standard/optional | IP67 | IP67 | IP67 | IP67 | IP67 | IP67 |

*standard
**Operating space is restricted when payload capacity is 12 kg
* Reach specification is with respect to J5 axis center
**ISO 9283
*In case of the wall mount, the operation space will be restricted according to the payload
**It is necessary to set a motion speed according to risk assessment of operator considering proximity with the surroundings.
*The device is monitored by a safety sensor (Note: operatively).
**Option required.
* Operating space is restricted when 5kg model is selected
## Specifications CRX-5iA CRX-10iA CRX-10iA/L CRX-20iA/L CRX-25iA

<table>
<thead>
<tr>
<th>Type</th>
<th>5</th>
<th>10</th>
<th>10</th>
<th>20</th>
<th>25</th>
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<tr>
<td>Controlled axes</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Max. load capacity at wrist [kg]</td>
<td>5</td>
<td>10</td>
<td>10</td>
<td>20</td>
<td>25/30</td>
</tr>
<tr>
<td>Reach [mm]<strong>1)</strong></td>
<td>994</td>
<td>1,249</td>
<td>1,418</td>
<td>1,418</td>
<td>1,889/1,756<strong>4)</strong></td>
</tr>
<tr>
<td>Repeatability [mm]<strong>3)</strong></td>
<td>±0.03</td>
<td>±0.04</td>
<td>±0.04</td>
<td>±0.04</td>
<td>±0.05</td>
</tr>
<tr>
<td>Mass [kg]</td>
<td>25</td>
<td>40</td>
<td>40</td>
<td>41</td>
<td>135</td>
</tr>
</tbody>
</table>

### Installation:
- Floor | upside down | wall

### Motion range
- **J1 axis rotation [°]**
  - CRX-5iA: 400
  - CRX-10iA: 380
  - CRX-10iA/L: 360
  - CRX-20iA/L: 360
  - CRX-25iA: 360
- **J2 axis rotation [°]**
  - CRX-5iA: 360
  - CRX-10iA: 360
  - CRX-10iA/L: 360
  - CRX-20iA/L: 360
  - CRX-25iA: 360
- **J3 axis rotation [°]**
  - CRX-5iA: 635
  - CRX-10iA: 570
  - CRX-10iA/L: 540
  - CRX-20iA/L: 540
  - CRX-25iA: 540
- **J4 axis wrist rotation [°]**
  - CRX-5iA: 380
  - CRX-10iA: 380
  - CRX-10iA/L: 380
  - CRX-20iA/L: 380
  - CRX-25iA: 380
- **J5 axis wrist swing [°]**
  - CRX-5iA: 360
  - CRX-10iA: 360
  - CRX-10iA/L: 360
  - CRX-20iA/L: 360
  - CRX-25iA: 360
- **J6 axis wrist rotation [°]**
  - CRX-5iA: 450
  - CRX-10iA: 450
  - CRX-10iA/L: 450
  - CRX-20iA/L: 450
  - CRX-25iA: 450

### Max. speed:
- **Collaborative mode [mm / s]**
  - CRX-5iA: 1,000
  - CRX-10iA: 1,000
  - CRX-10iA/L: 1,000
  - CRX-20iA/L: 1,000
  - CRX-25iA: 1,000
- **High speed mode [mm / s]**
  - CRX-5iA: 2,000
  - CRX-10iA: 2,000
  - CRX-10iA/L: 2,000
  - CRX-20iA/L: 2,000
  - CRX-25iA: 2,000

### Allowable load moment at wrist
- **J4 axis [Nm]**
  - CRX-5iA: 19.0
  - CRX-10iA: 34.8
  - CRX-10iA/L: 34.8
  - CRX-20iA/L: 70.0
  - CRX-25iA: 100.0
- **J5 axis [Nm]**
  - CRX-5iA: 15.4
  - CRX-10iA: 26.0
  - CRX-10iA/L: 26.0
  - CRX-20iA/L: 64.0
  - CRX-25iA: 74.0
- **J6 axis [Nm]**
  - CRX-5iA: 6.7
  - CRX-10iA: 11.0
  - CRX-10iA/L: 11.0
  - CRX-20iA/L: 30.0
  - CRX-25iA: 32.0

### Allowable load inertia at wrist
- **J4 axis [kgm²]**
  - CRX-5iA: 0.77
  - CRX-10iA: 1.28
  - CRX-10iA/L: 1.28
  - CRX-20iA/L: 4.00
  - CRX-25iA: 7.00
- **J5 axis [kgm²]**
  - CRX-5iA: 0.50
  - CRX-10iA: 0.90
  - CRX-10iA/L: 0.90
  - CRX-20iA/L: 4.00
  - CRX-25iA: 4.00
- **J6 axis [kgm²]**
  - CRX-5iA: 0.10
  - CRX-10iA: 0.30
  - CRX-10iA/L: 0.30
  - CRX-20iA/L: 2.00
  - CRX-25iA: 2.00

### Installation environment
- **Input power source [VAC]**
  - CRX-5iA: 100-120
  - CRX-10iA: 200-240
  - CRX-10iA/L: 100-120
  - CRX-20iA/L: 100-120
  - CRX-25iA: 100-120
- **Ambient operating temperature [°C]**
  - CRX-5iA: 0–45
  - CRX-10iA: 0–45
  - CRX-10iA/L: 0–45
  - CRX-20iA/L: 0–45
  - CRX-25iA: 0–45

### Protection
- **Body standard/optional** IP67 IP67 IP67 IP67 IP67
- **Wrist & J3 arm standard/optional** IP67 IP67 IP67 IP67 IP67

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* Standard
**1)** Reach specification from base plane
**2)** It is necessary to set a motion speed according to the users' needs.
**3)** Compliant with ISO21399
**4)** Operating space is restricted when 30kg payload mode is selected
The Most Extensive Collaborative Robot Lineup

MORE choices
MORE payload
MORE reach
MORE control

...EVER...