FANUC CRX-10*i*A Series

The next generation in collaborative

CRX-10*i*A

Easy Gripper Connection

Easy Operation

Manual Guided Teaching

Ergonomic Design

Lightweight at <40KG

Easy to Install

Flexible and Capable

FANUC Robot CRX-10*i*A

1,000mm/sec collaborative speed

Through-arm cabling: I/O + vision or force

IP54 rating for arm & vertical controller

Flexible mounting: floor, angle, invert

Standard and Long Arm Variants

Longer J2 arm

CRX-10*i*A
- 10kg payload
- 1,249mm reach

CRX-10*i*A/L
- 10kg payload
- 1,418mm reach

Specifications

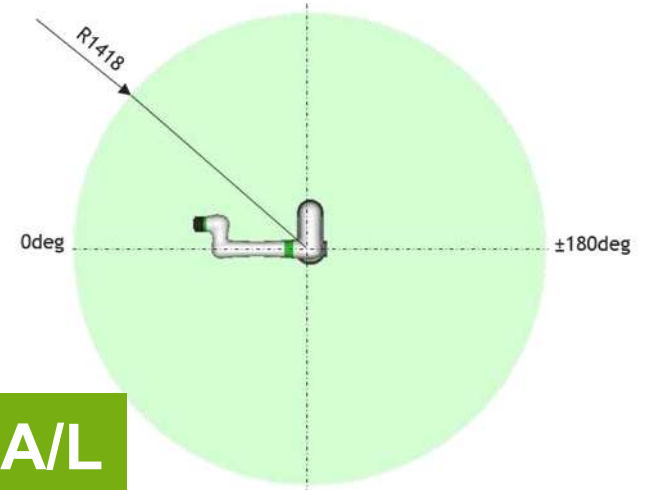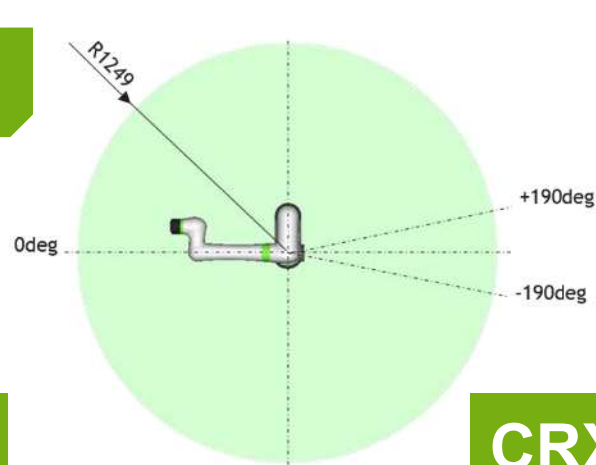| Model		CRX-10*i* A	CRX-10*i* A/L
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		1249 mm	1418 mm
Installation (see Note 2)		Floor, ceiling, angle	
Motion range (Maximum motion speed) (see Note 3)	J1	380° (120° /s) 6.63 rad (2.09 rad/s)	360° (120° /s) 6.28 rad (2.09 rad/s)
	J2	360° (120° /s) 6.28 rad (2.09 rad/s)	
	J3	570° (180° /s) 9.95 rad (3.14 rad/s)	540° (180° /s) 9.42 rad (3.14 rad/s)
	J4	380° (180° /s) 6.63 rad (3.14 rad/s)	
	J5	360° (180° /s) 6.28 rad (3.14 rad/s)	
	J6	380° (180° /s) 6.63 rad (3.14 rad/s)	
Maximum motion speed (see Note 3)		1000 mm/s	
Maximum payload capacity at wrist		10 kg	
Allowable load moment at wrist	J4	34.8 Nm	
	J5	26.0 Nm	
	J6	11.0 Nm	
Allowable load inertia at wrist	J4	1.28 kg·m^2	
	J5	0.90 kg·m^2	
	J6	0.30 kg·m^2	
Repeatability		± 0.05 mm	
Weight (see Note 4)		39 kg or less	
Installation environment		Ambient temperature: 0 to 45℃ Ambient humidity: Normally 75%RH or less. No dew allowed. Short time (within one month) Max 95%RH Vibration acceleration: 4.9m/s^2 (0.5G) or less	
Controller R-30iB Mini Plus	Power source	AC 100～120V, AC200～240V Single-phase +10% -15%, 50/60Hz ± 1Hz	
	Weight	19 kg or less	
	Dimension (W x D x H)	420×290×370 mm	
	IP Rating	IP54	

High Collaborative speed
(High Speed Mode available)

Strong Wrist Performance
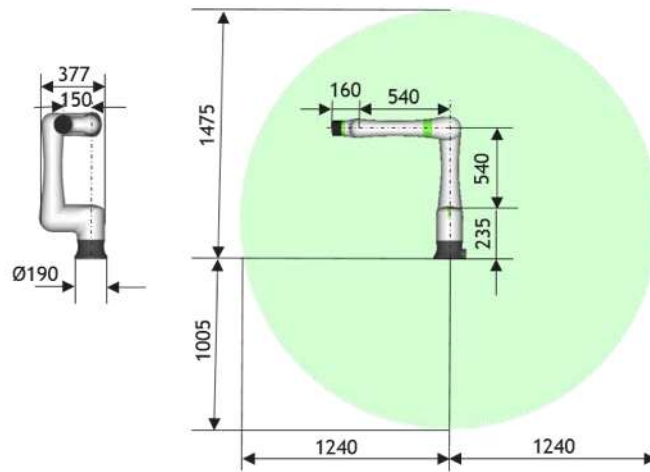
Lightweight and Precise

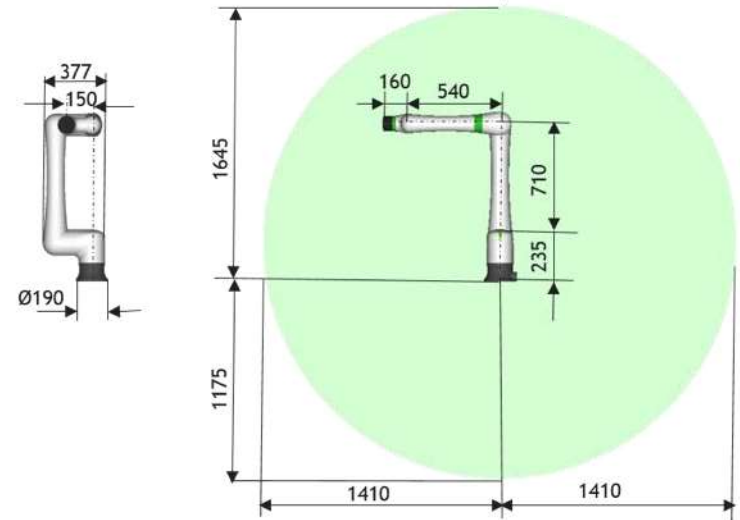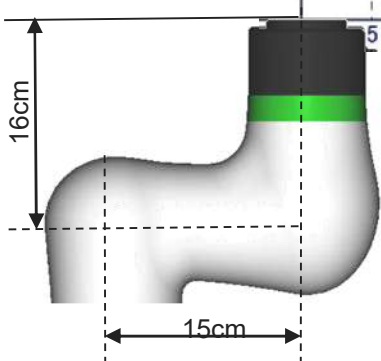Lightweight Industrial Controller
(Supports 100~120VAC)

Note 1: Specifications may be subject to change without notice for improvement.
Note 2: Additional limitations may apply to the motion range by the payload in the angle-mounted installation.
Note 3: It may not reach the maximum speed in short motion.
Note 4: The weight does not include the weight of the controller.
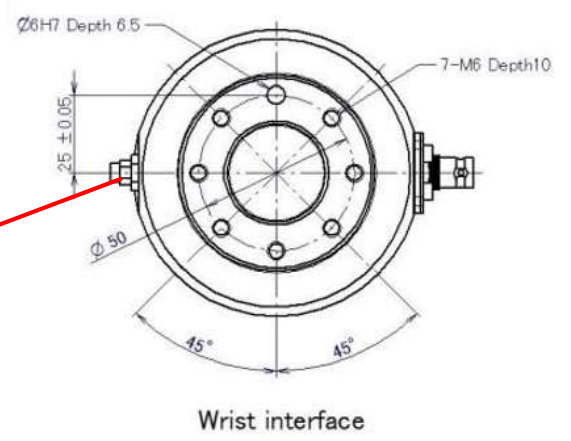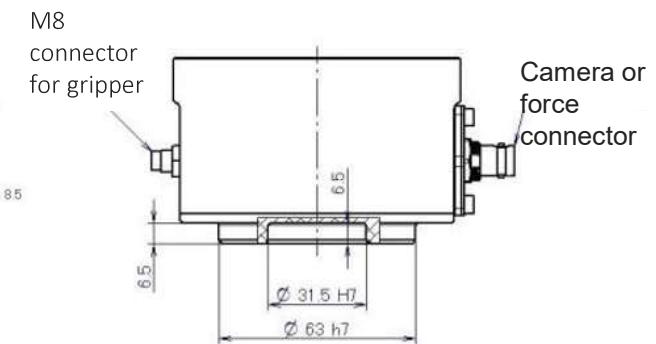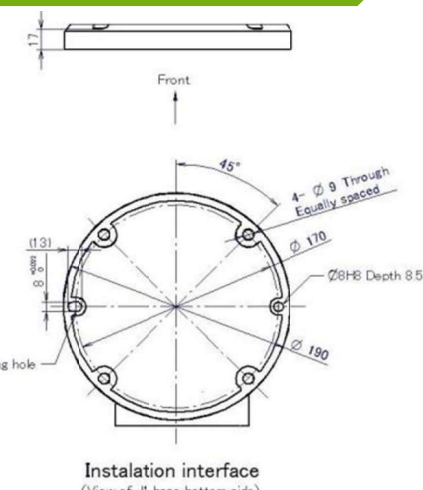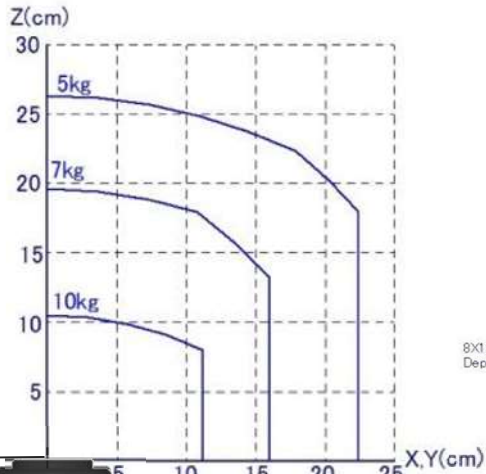
CRX-10*i*A

CRX-10*i*A/L

CRX-10iA/L Flip Under

- Reduced interference area by utilizing under flip motion
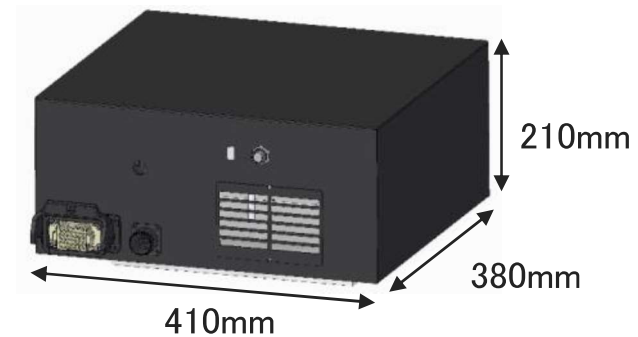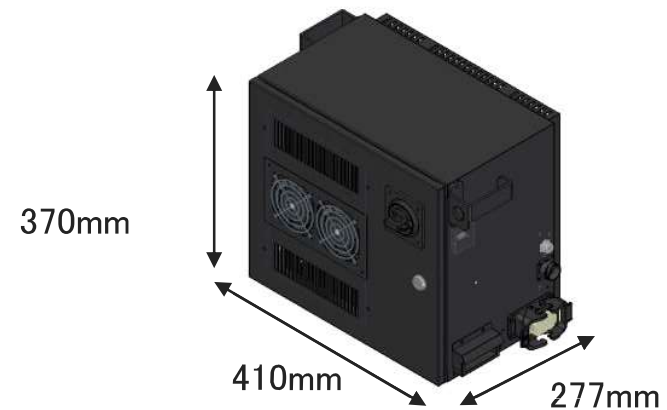
- Higher productivity and improved efficiency

Flip Under Motion

Interface and Wrist Load Diagram

Z(cm)

5kg
7kg
10kg

X,Y(cm)

Front
45°
4- Ø 9 Through
Equally spaced
Ø 170
Ø8H8 Depth 8.5
8X13 oblong hole
Depth 8.5
Ø 190

Instalation interface
(View of J1 base bottom side)

16cm
15cm

M8 connector for gripper

Camera or force connector

Ø 31.5 H7
Ø 63 h7
6.5
6.5

Ø6H7 Depth 6.5
7-M6 Depth10
25 ±0.05
Ø 50
45° 45°

Wrist interface

User-side EOAT connector M8 (female)

Pin	Color	Function
1 =	white	= RS485+
2 =	brown	= RS485-
3 =	green	= DI2 (digital input 2)
4 =	yellow	= DI1 (digital input 1)
5 =	grey	= PWR (24V 1Amax)
6 =	pink	= DO2 (digital output 2)
7 =	blue	= DO1 (digital output 1)
8 =	red	= 0V

New Lightweight Controller: R-30*i*B Mini Plus

- **Compact controller weighs at <20kg**
- **Support two input power:**
  - AC100-120V (single phase)
  - AC200-240V (single phase)

- **Two controller configurations:**
  - Vertical – IP54 rated (standard)
  - Horizontal – IP20 rated

- **Intelligent Features:**
  - *i*Rvision, *i*RPickTool and
  - Force Sensing

370mm

410mm

277mm

210mm

380mm

410mm

New Tablet Teach Pendant

- Combines base, tablet and apps for easy programming and operation

- Tough tablet comes dust/liquid proof and impact resistant

New Intuitive Touch Panel User Interface

Menu and Status Bar

- Dropdown menu
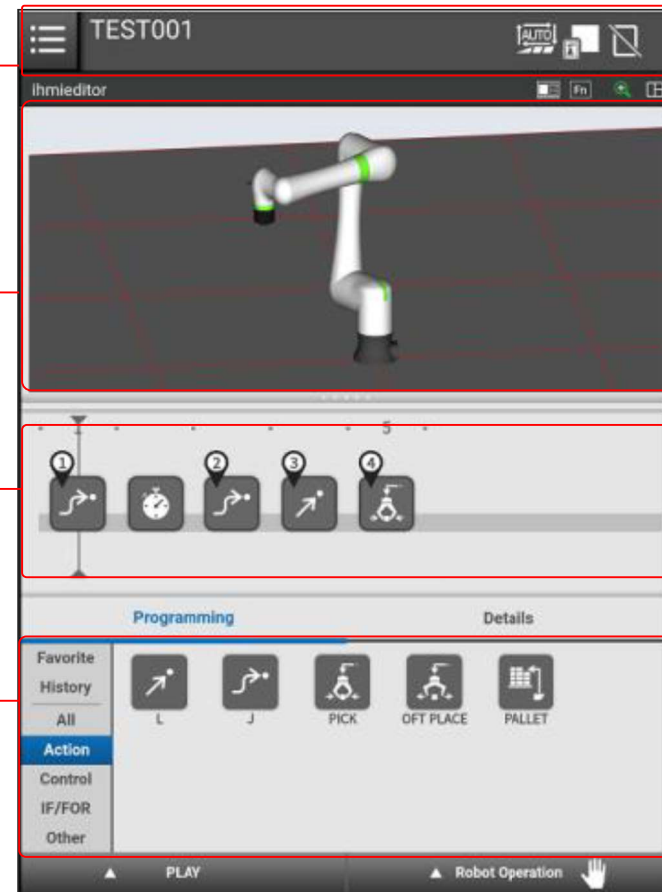- Status icons

3D View Area

- Robot status graphics
- Displays teaching points

Timeline Program View

- Intuitive program representation
- Simple program navigation

Programming

- Drag & drop icons to the timeline
- Parameters adjustable in details

New Peripheral Software Interface

Main menu (example)

Custom command/details screen (example)

- Display custom menus and execute custom commands for peripheral devices by adding plug-ins

- Peripherals plug-ins development tool is available. For more information, contact https://www.fanuc.co.jp/ja/contact/form/index.html to request "CRX Plug-ins Development Tool."

- The list of plug-ins for the CRX-ready peripherals will be made available on the FANUC website along with reference to each company's website.

- Plug-in software will be obtained through the peripheral device company
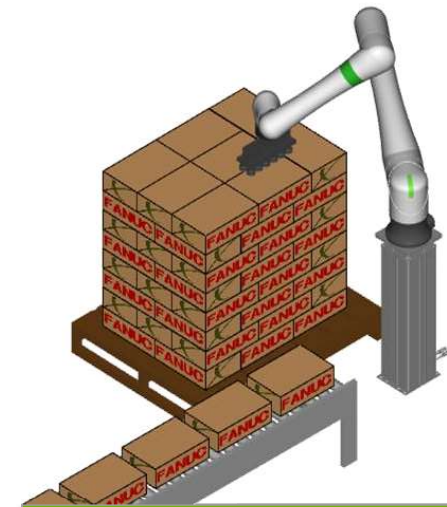
CRX Application Examples

QSSR – Machine Tending

Intelligent – Visual Tracking

Palletizing

AND MANY MORE!!!!!