

A close-up, low-angle shot of a white FANUC collaborative robot arm. The arm is positioned diagonally across the frame, with a bright green stripe running along its length. The text "FANUC Robot CRX-10iA/L" is printed in red and black on the white surface. The background is dark and out of focus, showing industrial structures.

FANUC Robot CRX-10iA/L

FANUC CRX Series

The next generation in collaborative

FANUC CRX Standard Series Line up

NEW



CRX-3iA

3kg payload and
692mm reach



CRX-5iA

5kg payload and
994mm reach



CRX-10iA

10kg payload and
1,249mm reach



CRX-10iA/L

10kg payload and
1,418mm reach



CRX-20iA/L

20kg payload and
1,418mm reach



CRX-30iA

30kg payload and
1,756mm reach
(25kg @ 1,889mm)

NEW CRX/30-18A & CRX/20-14A

Supported on R-50iA

- Mate (Available to Order)
- A-Cabinet (Optional)

CRX/30-18A

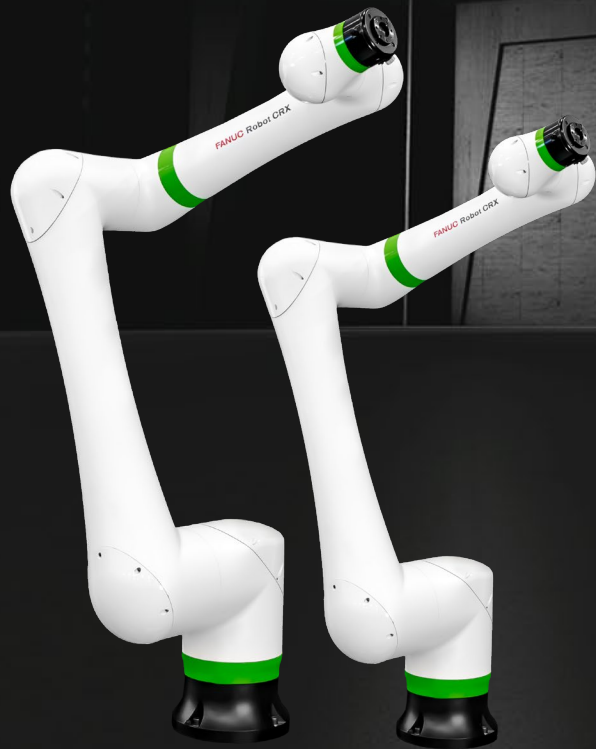
CRX/20-14A expected end of June 2026

Additional models expected September 2026

Same performance as R-30iB Mini Plus

Standard config includes:

- ESx, EE, Air, Wrist Buttons, ASAP (CRX/30-18A)
- ESx, EE, Air, Wrist Buttons (CRX/20-14A)



CRX Series Features



Force Sensor



2D Vision



3D Vision



Latest intelligent functions:

- *i*RVision
- force sensor
- *i*RPickTool
- ***and more***



Manual Guided Teaching: Simple teaching and intuitive operation



Collaborative Mode:
Green LED on



High Speed Mode
(with safety rated device):
Yellow LED on



Robot at Fault
Red LED on



Contact Stop: Conforms to ISO 10218-1 and ISO/TS 15066 for collaborative robot operation

Flexible and Capable



**1000mm/sec
collaborative speed**
(Except CRX-3iA)

**2000mm/sec
high speed mode**
(Except CRX-20iA/L and CRX-3iA)

Through-arm cabling:
Air + I/O + vision or force
*CRX-3iA does not incl. vision or force
*CRX-5iA does not incl. air
*CRX-30iA includes all

IP67 rating for arm
IP54 controller

Flexible mounting:
floor, angle, invert, wall

Key Features

Safety certified to ISO 10218-1
(Conforming to ISO/TS15066)



CONTACT STOP

Robot stops safely at light
contact of human



MANUAL GUIDED TEACHING

Intuitive operation and
simple teaching



HIGH SPEED MODE (NON COLLABORATIVE)

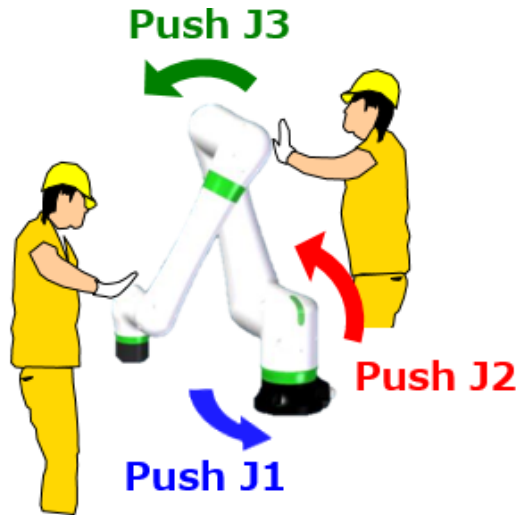
Highest reliability and
best-in-class speeds

Key Features



Contact Stop

Safely stops with light contact



Push to Escape

The robot can be moved away by the operator pushing on Joint 1, 2, or 3



Retract Motion

The robot can retract immediately when it contacts hard objects in order to minimize a pinching force.

Key Features

Collaborative mode
Green Indicator

Max speed of the robot is 1000mm/s in Collaborative mode.
It stops safely upon a light contact with humans.

CRX Flip Under Motion

For CRX-10*iA*/L, 20*iA*/L, 30*iA*



Flip-Under Motion Provides:

- Quick transition from front to back
- Reduced interference area
- High productivity

CRX Flip Under Motion

Specifications



Item		FANUC CRX-3i A	FANUC CRX-5i A	FANUC CRX-10i A	FANUC CRX-10i A/L	FANUC CRX-20i A/L CRX/20-14A	FANUC CRX-30i A CRX/30-18A
Payload (kg)		3	5	10	10	20	30 (25)
Reach (at end of flange, in mm)		692	994	1249	1418	1418	1756 (1889)
Allowable moment at wrist (N-m)	J4	8.5	19	34.8	34.8	70	115 (100 ^{*5})
	J5	6.5	15.4	26	26	64	85
	J6	4	6.7	11	11	30	32
Allowable inertia at wrist (Kg-m ²)	J4	0.32	0.77	1.28	1.28	4	4.7
	J5	0.24	0.5	0.9	0.9	4	4
	J6	0.08	0.1	0.3	0.3	2	2
Max. speed (mm/sec) ^{*1} (collaborative mode/ high speed)		1200/2500	1000 / 2000	1000 / 2000	1000 / 2000	1000 / 1000	1000 / 2000
Protection		IP67	IP67	IP67	IP67	IP67	IP67
Repeatability (mm) ^{*2}		± 0.02	± 0.03	± 0.04	± 0.04	± 0.04	± 0.05
Utilities at wrist		Wrist Button, EE	Wrist Button, EE, Camera or Force	Wrist Button, Air*3, EE, Camera or Force	Wrist Button, Air*3, EE, Camera or Force	Wrist Button, Air, EE, Camera or Force	Wrist Button, EEEx2 ^{*4} , Air x 1, ASAP, Camera
Weight (kg)		11	25	40	40	41	135

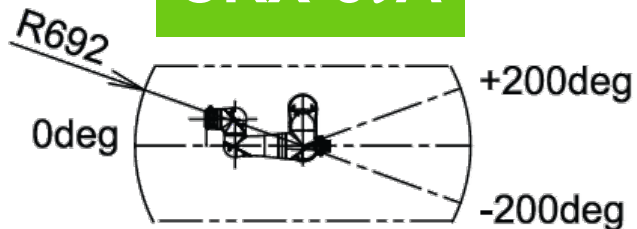
Notes:

- 1) Maximum collaborative speed should be set based on risk assessment of the system.
- 2) Compliant to ISO 9283
- 3) Air available on certain configurations only
- 4) Wrist Button Available on certain configurations only. CRX-30iA supports EEEx1 when wrist button is used.
- 5) J4 load moment @ 25kg payload mode

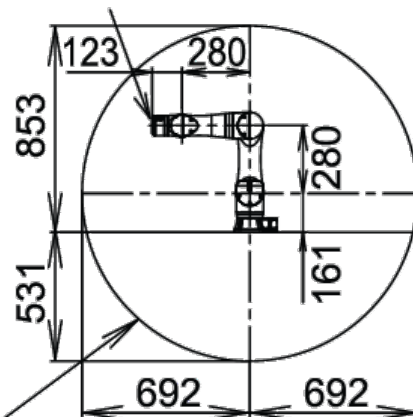
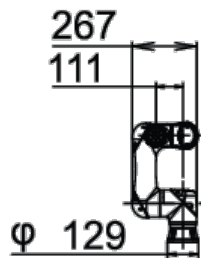
Work Envelope

CRX-3iA

NEW



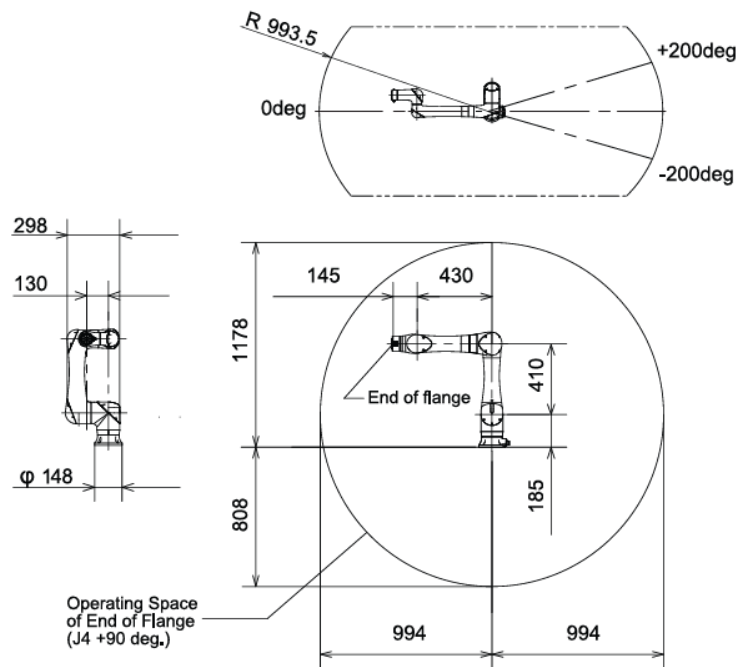
END OF FLANGE



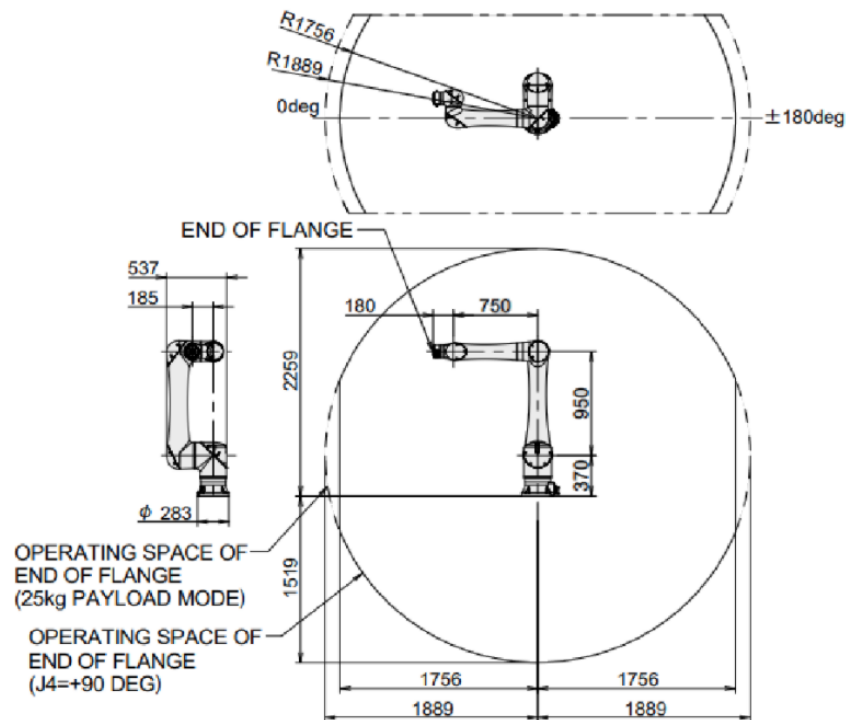
**OPERATING
SPACE OF
END OF FLANGE
(J4=+90 DEG)**

Work Envelope

CRX-5iA

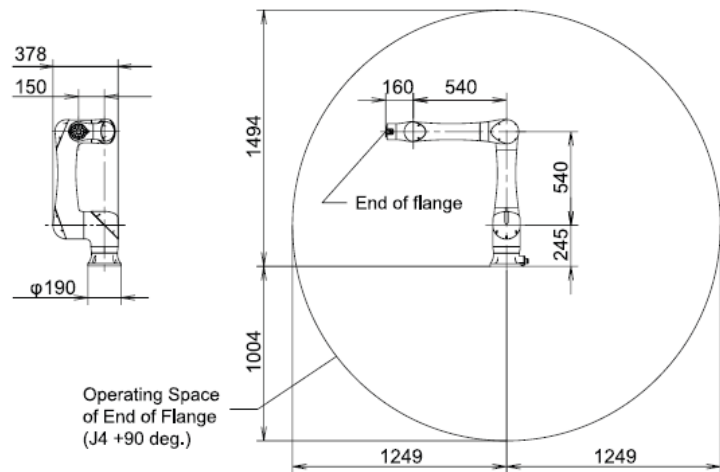
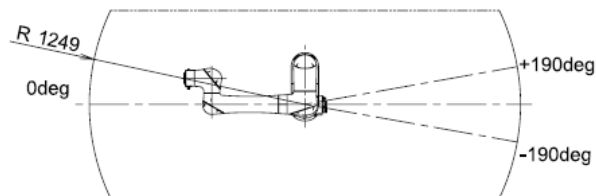


CRX-30iA & CRX30-18A



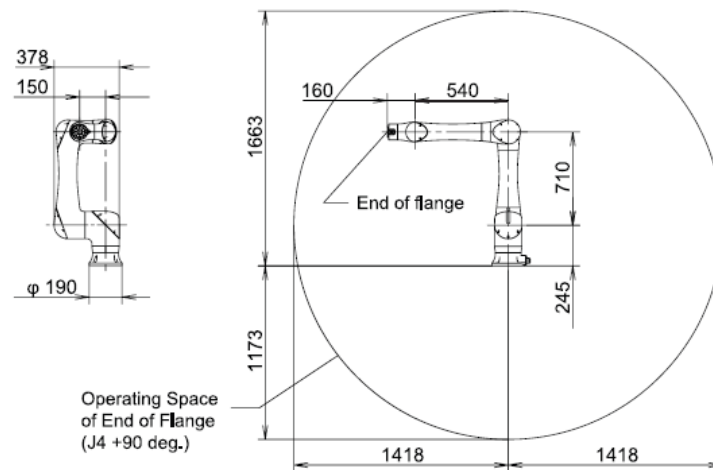
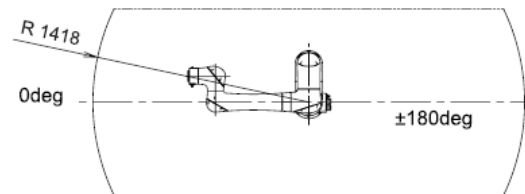
Work Envelope

CRX-10iA



CRX-10iA/L

CRX-20iA/L & CRX/20-14A

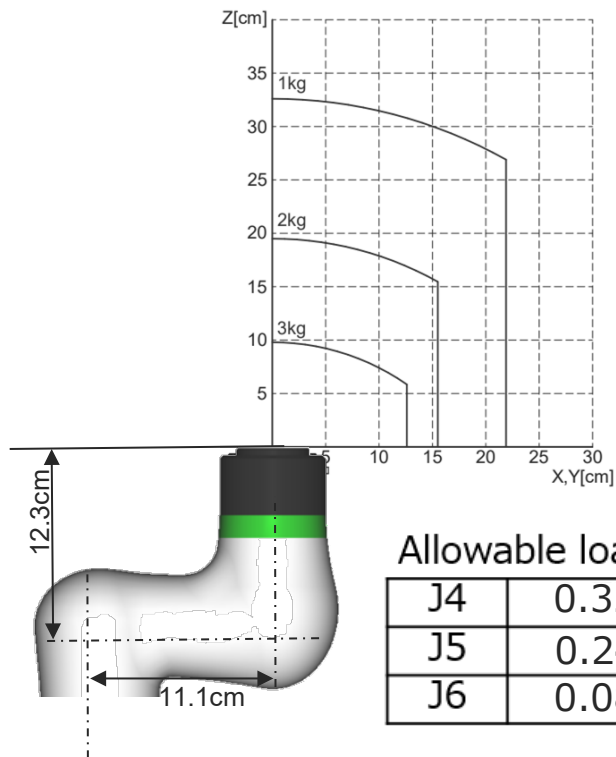


Wrist Load Diagram

For CRX-3iA



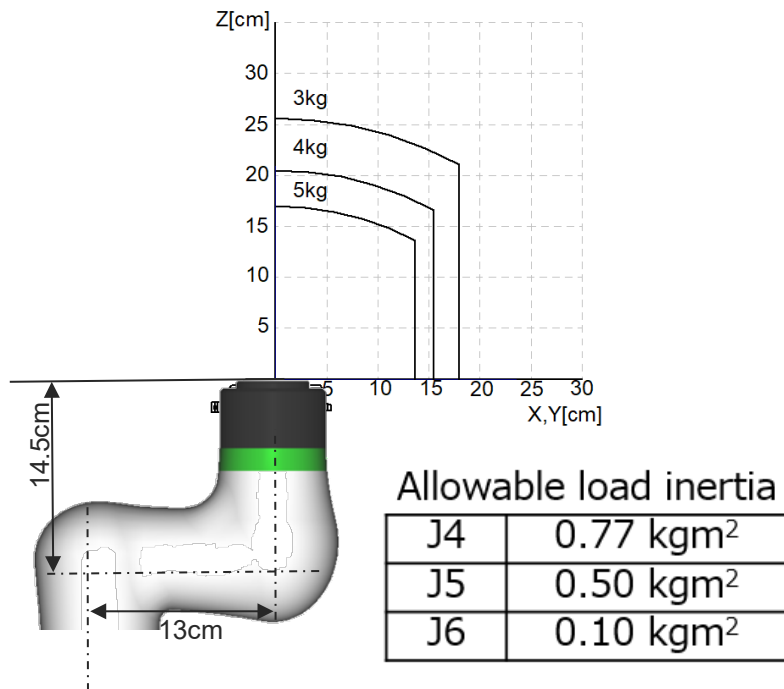
Standard



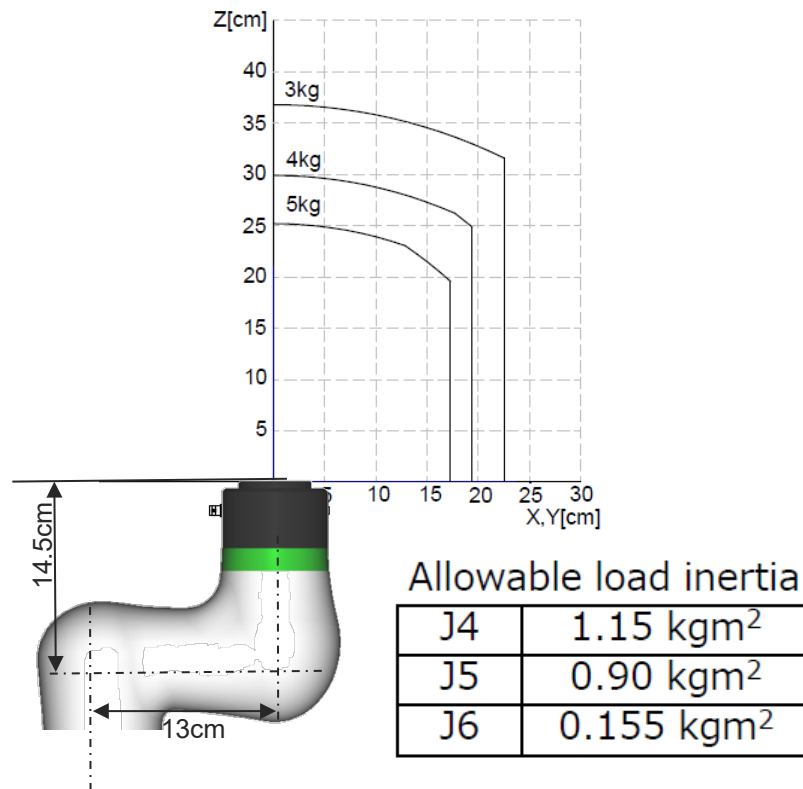
Wrist Load Diagram

For CRX-5iA

Standard



Wrist Downward

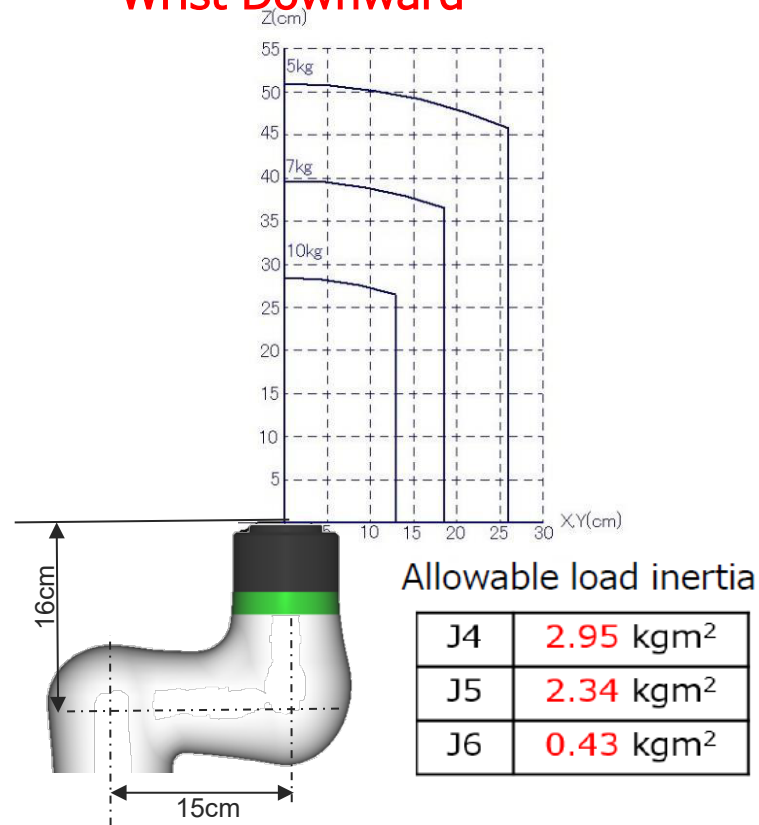
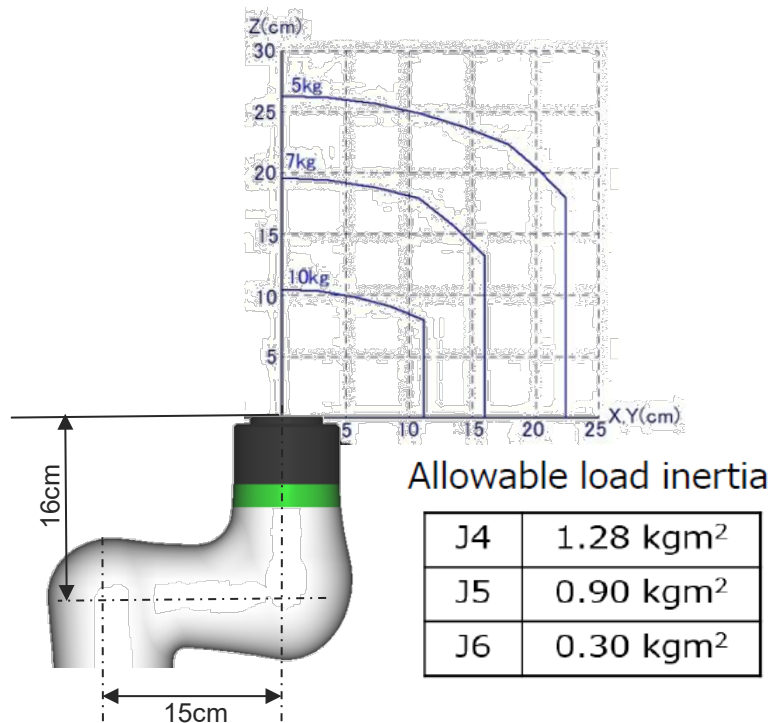


Wrist Load Diagram

For CRX-10iA, 10iA/L

Larger allowable wrist load with the wrist downward is available.
Standard

Wrist Downward

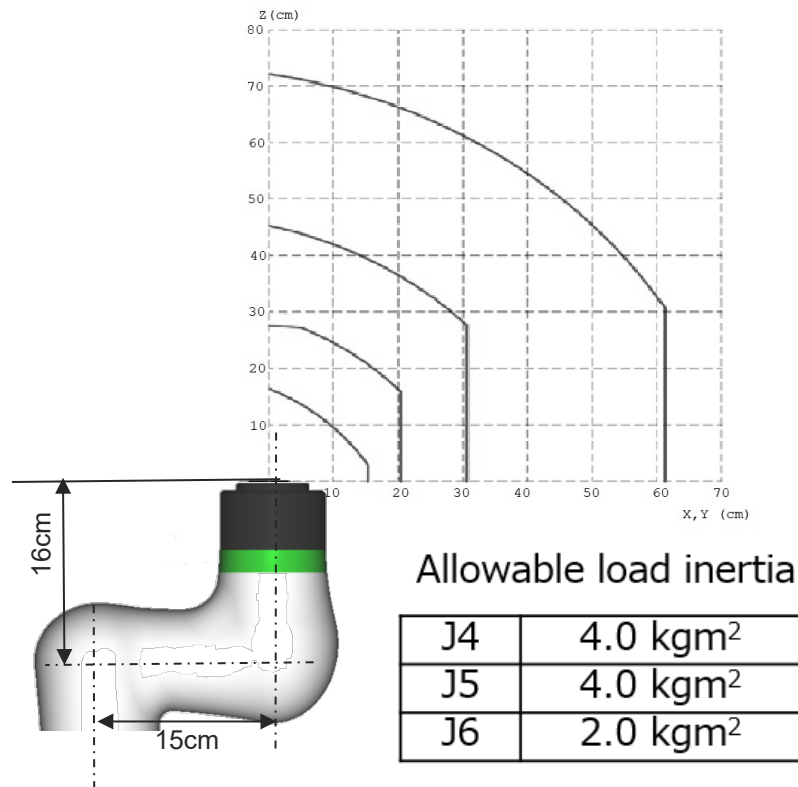


Wrist Load Diagram

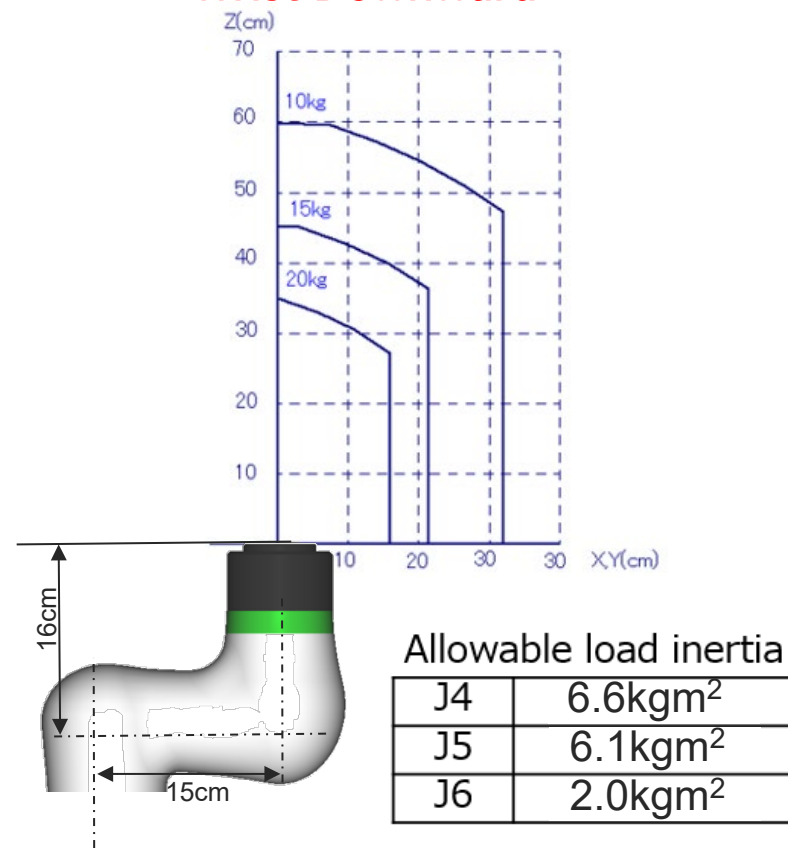
For CRX-20*i*A / CRX/20-14A

NEW

Standard



Wrist Downward

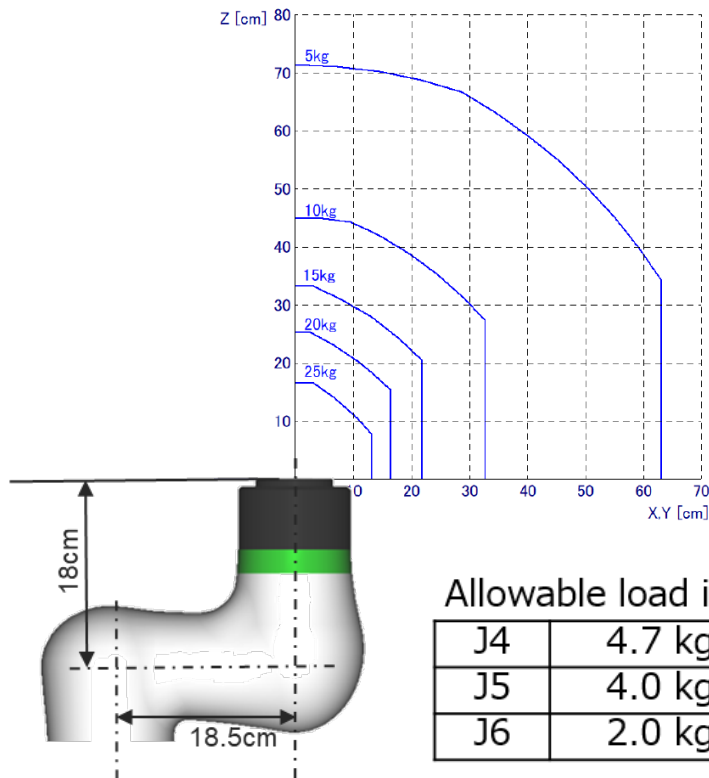


Wrist Load Diagram

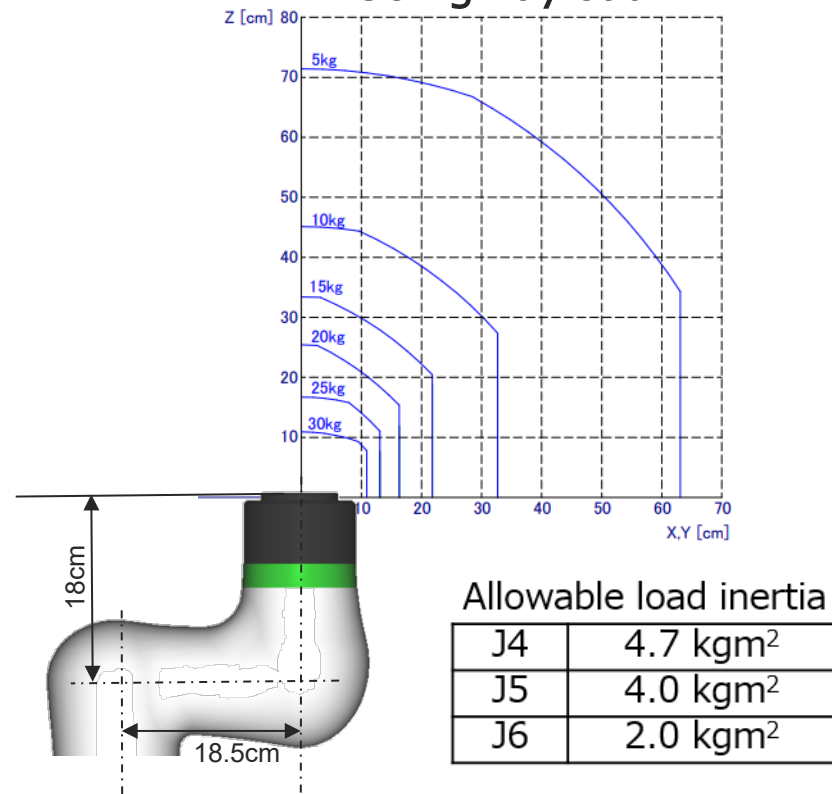
For CRX-30iA, CRX/30-18A

NEW

25 kg Payload



30 kg Payload

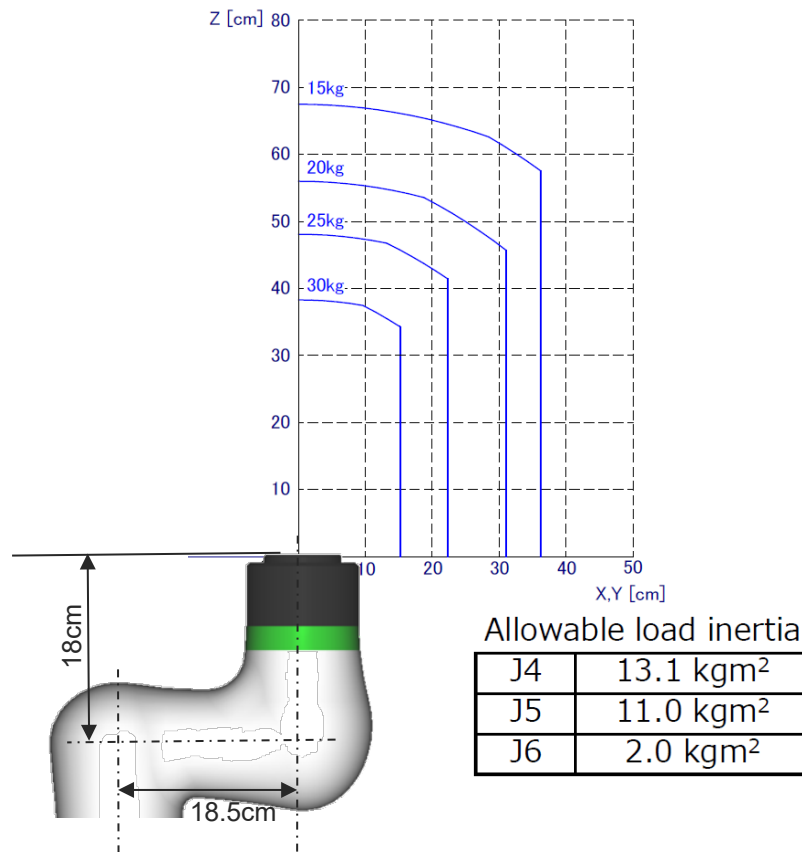


Wrist Load Diagram

NEW

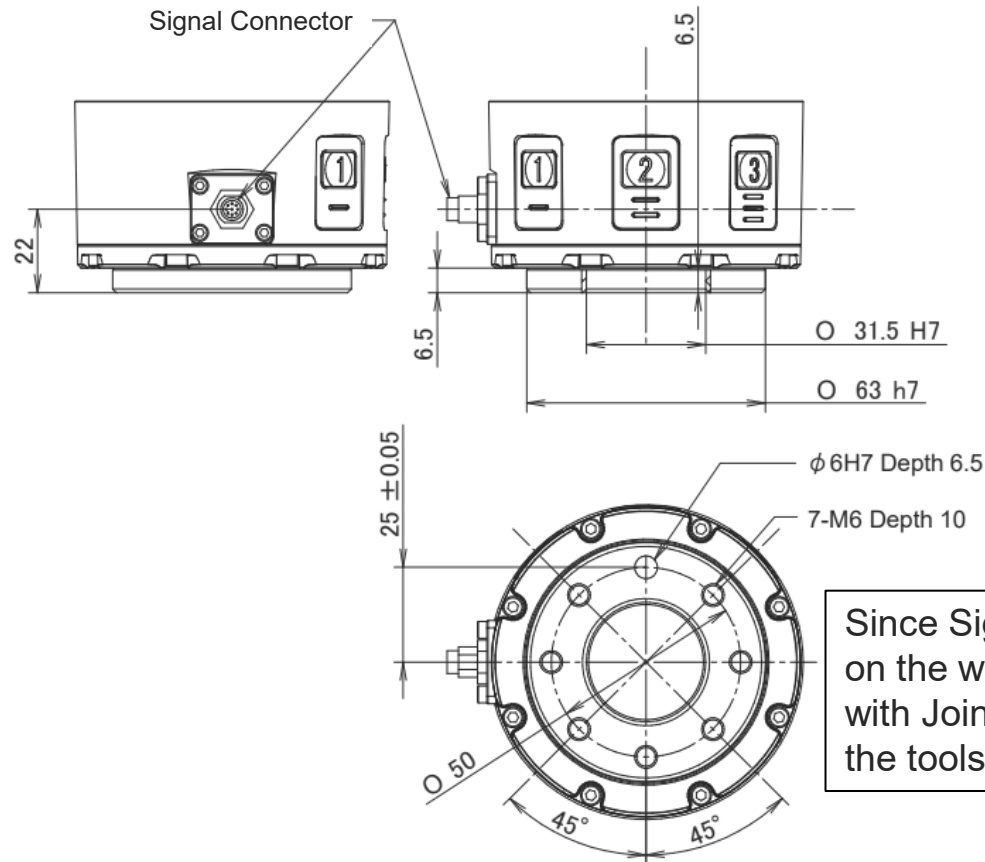
For CRX-30iA, CRX/30-18A

Wrist Downward



EOAT Mechanical Interface

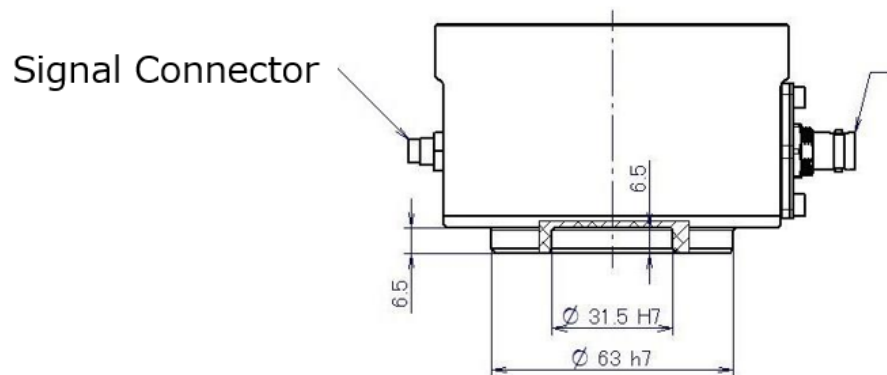
For CRX-3*i*A



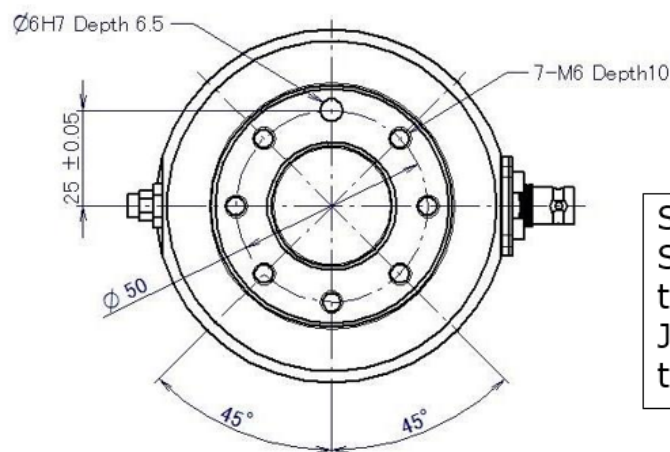
Since Signal connector is located on the wrist flange and rotate with Joint 6, connection cables to the tools will be stationary.

EOAT Mechanical Interface

For CRX-5iA, 10iA, 10iA/L, 20iA/L & CRX/20-14A



CAM or Force Connector (Std. for R-30iB Plus **NOT** available for R-50iA)
Ethernet Connector (ESx) (Std. for R-50iA, Opt. for R-30iB Plus)

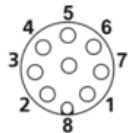


Since Signal and Camera/Force Sensor connector are located on the wrist flange and rotate with Joint 6, connection cables to the tools or sensors will be stationary.

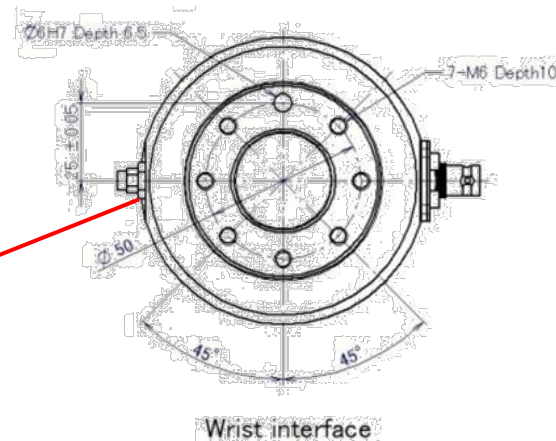
EOAT Control Signal Interface

For all models

User-side EOAT connector M8 (female)



1 =	white	= Analog Input 1 / RS485+
2 =	brown	= Analog Input 2 / RS485-
3 =	green	= Digital Input 2
4 =	yellow	= Digital Input 1
5 =	grey	= Power1 (24V / 12V Power Off)
6 =	pink	= Digital Output 2/Ground2
7 =	blue	= Digital Output 1/Power2
8 =	red	= Ground1

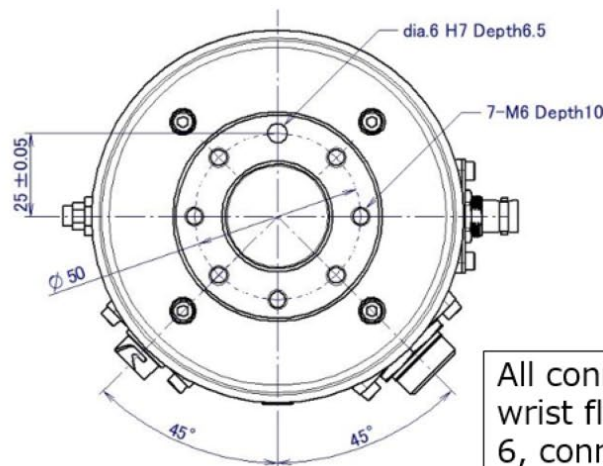


Connector for EOAT
Digital Output
Power1/2 , Ground1/2
Power1 , Ground1
Digital Output1/2

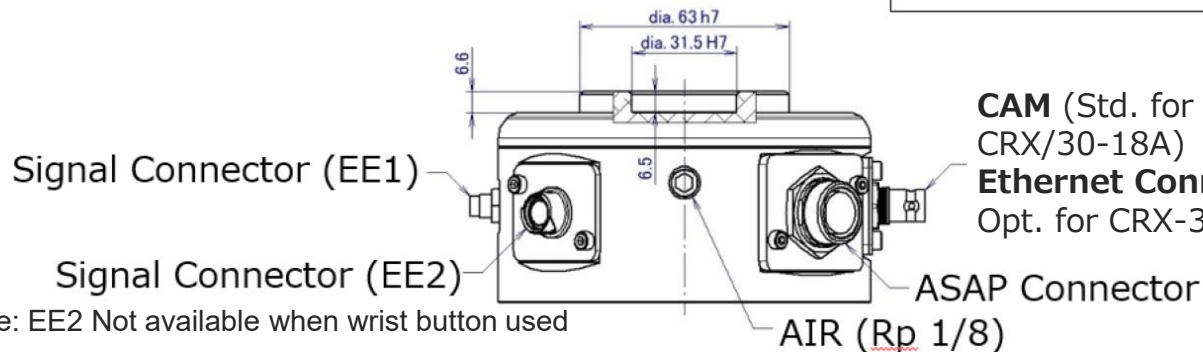
: M8 connector for signal (female)
: default PNP, switchable to NPN
: 1A max each
: 2A max (when 6 and 7 pins are not used)
: 0.5A max each

EOAT Mechanical Interface

For CRX-30iA / CRX/30-18A



All connector are located on the wrist flange and rotate with Joint 6, connection cables to the tools or sensors will be stationary.



Note: EE2 Not available when wrist button used

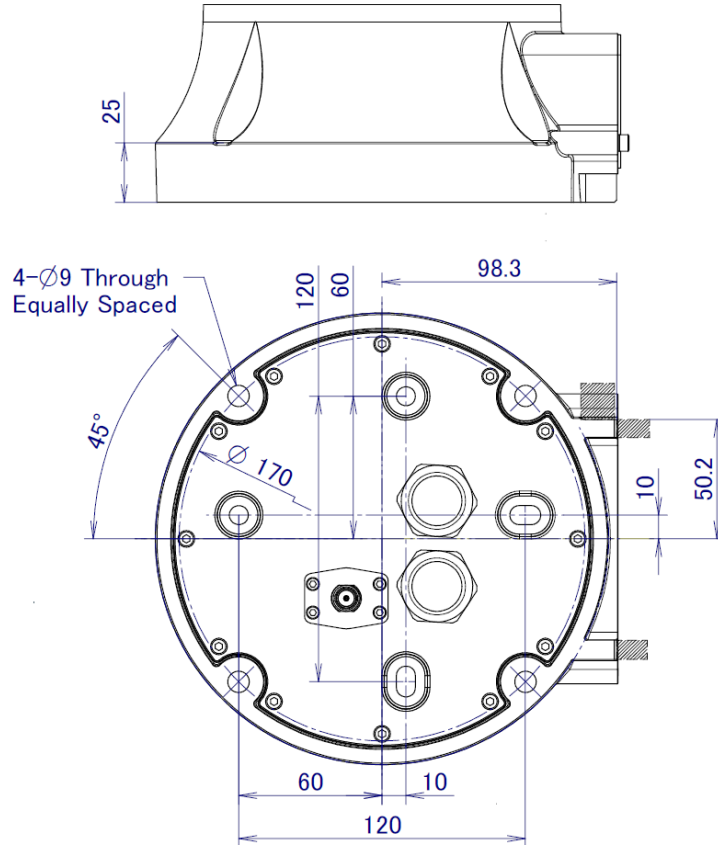
CAM (Std. for CRX-30iA **NOT** available for CRX/30-18A)

Ethernet Connector (ESx) (Std. for CRX/30-18A, Opt. for CRX-30iA)

Bottom Exit Installation Options

NEW

For CRX-5*iA*, 10*iA*, 10*iA*/L, 20*iA*/L & 30*iA*



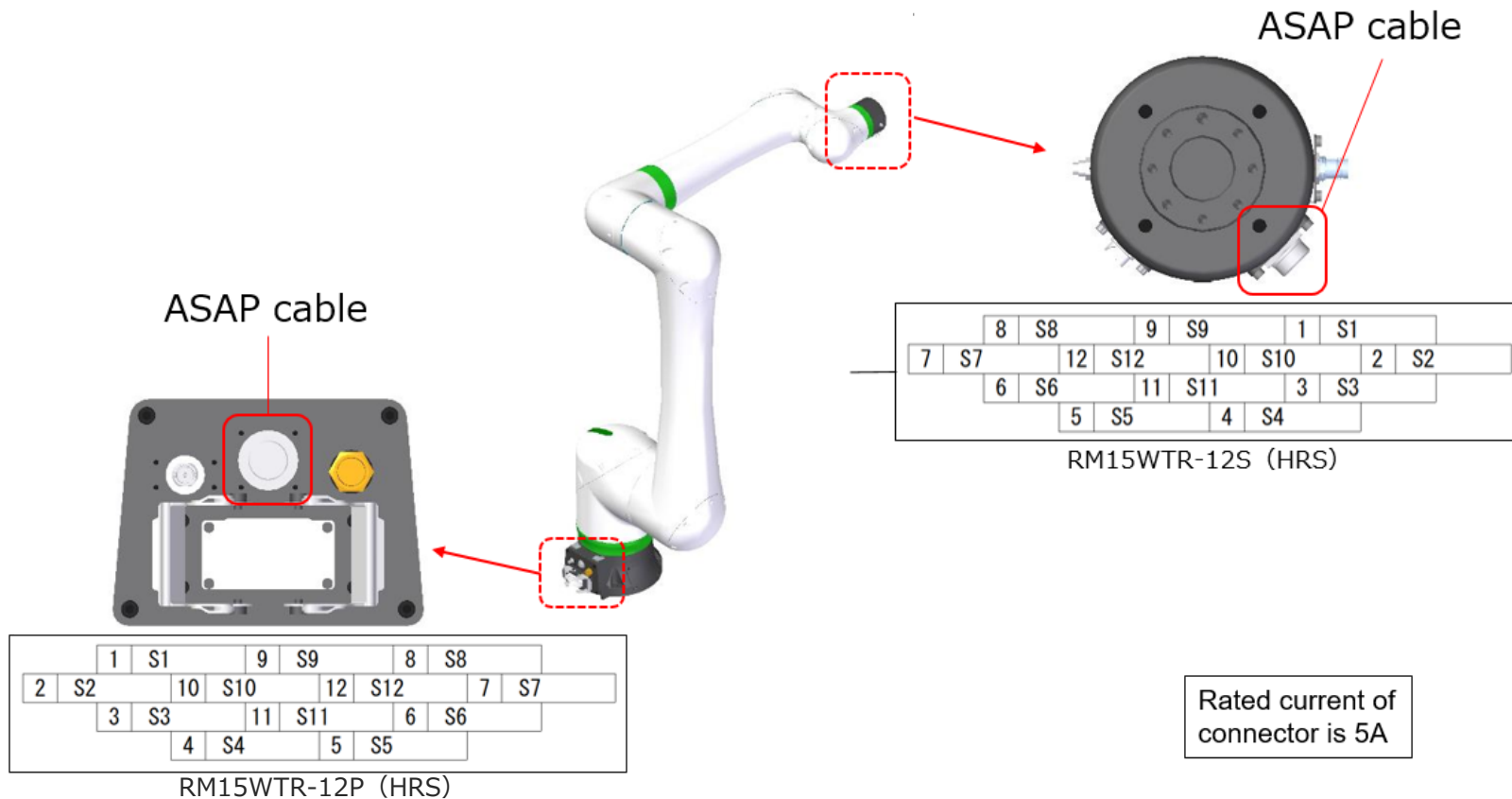
Bottom Cable Exit Available on specific model :

- CRX-10*iA*, 10*iA*/L and 20*iA*/L shown
- Back Cable Exit Std.
- Now available on CRX-30*iA*
- Bottom Exit currently unavailable for R-50*iA* models

NEW

EOAT ASAP Cable

For CRX-30*i*A, CRX/30-18A

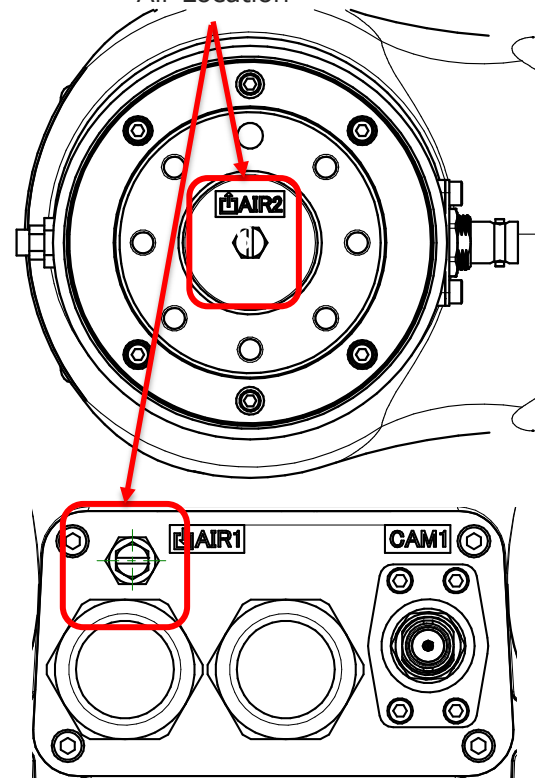


Thru-Arm Air Available

CRX-10*i*A, 10*i*A/L, 20*i*A/L and 30*i*A

- Internal air line on CRX-10*i*A, 10*i*A/L, 20*i*A/L, CRX/20-14A
 - Air line exits at center of faceplate
 - 6mm OD, connections are M5x0.8
- Available now as factory order
 - Config is Airline/EE/CXV
- Standard on CRX-30*i*A / CRX/30-18A
 - 8mm OD, 5mm ID

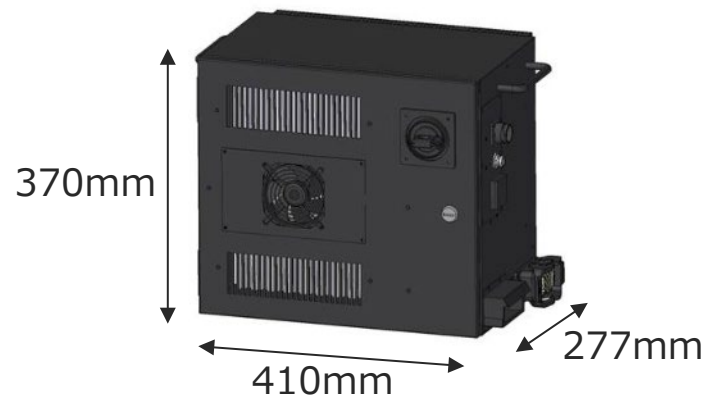
CRX 10*i*A, 10*i*A/L and 20*i*A/L
Air Location



Lightweight Controller: R-30iB Mini Plus

For all models

- Compact controller weighs at <20kg
 - IP54 rated (standard)
- Support two input power:
 - AC100-120V (single phase)
 - AC200-240V (single phase)
- I/O Available:
 - DI/DO: 20/16
 - Safety:
 - Safe input: 2 (Fence and E-stop)
 - Safe Output: 1 (E-stop button)
 - General Purpose Safe Input: 2
- Intelligent Features:
 - *i*Rvision
 - *i*RPickTool and Line Tracking
 - Force Sensing



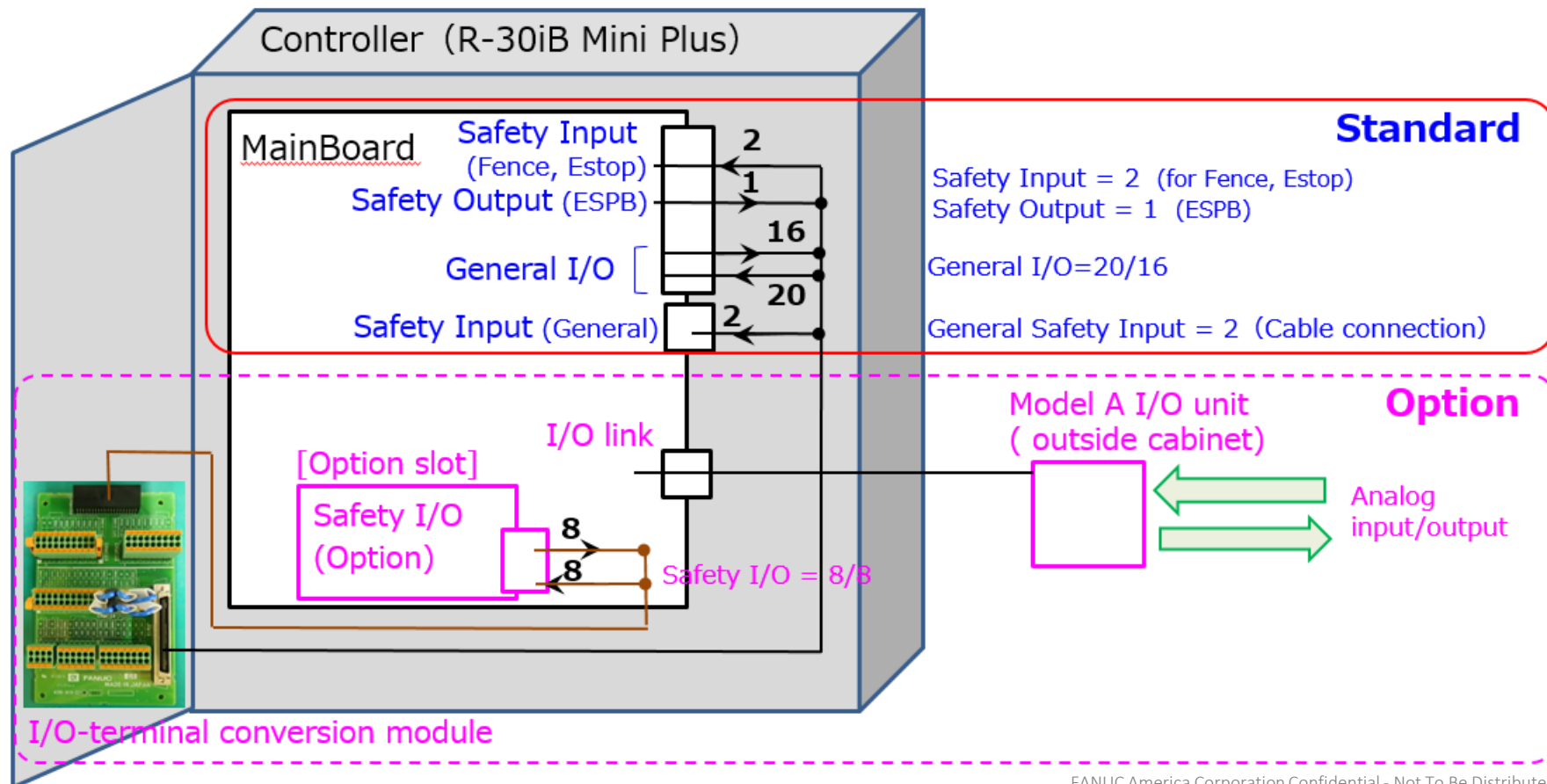
Lightweight Controller: R-30iB Mini Plus

For all models

Function	Specification
USB	USB2.0 x 1ch
Ethernet	100BASE x 2ch
	1000BASE x1ch
RS-232-C	1ch
I/O Link	Master or Slave 1ch
I/O Link i	Master 1ch or Slave 1ch (I/O Link is unusable when I/O Link i Slave is used)
DI/DO	20/16 (Source DO)
Safety DI/DO	2 pair (standard), 8/8 pair (Option)
HDI	2ch
Line Tracking	2ch
Camera I/F	1ch
Safety Signal	Fence input, External E-Stop input, External E-Stop output
Network (Option)	EtherNet/IP, EtherNet/IP safety adapter, PROFINET, PROFINET safety(PROFINET FANUC board), CC-link, FL-net safety, EtherCAT slave, DeviceNet, CC-link IE FIELD, PROFIBUS(master/slave), DeviceNet safety

Lightweight Controller: R-30iB Mini Plus

For all models



CRX Standard Functions

For all models

The following functions are included as standard.

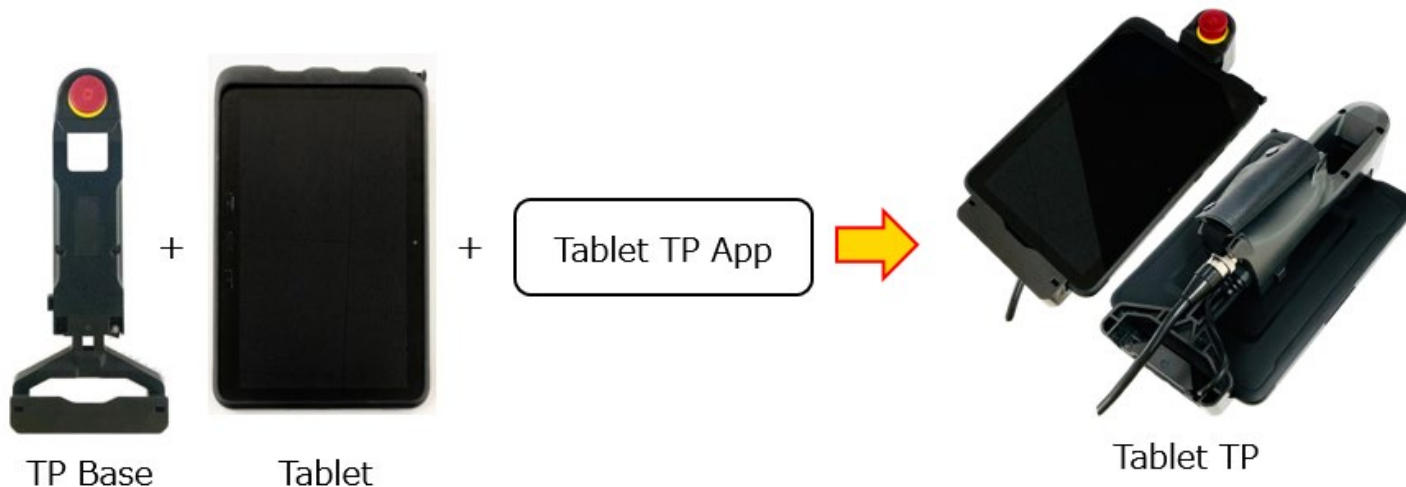
- Payload Identification (A05B-2600-J669)
 - Automatic payload setting using manual guided teach
- DCS Basic Position Check Function (A05B-2600-J556)
DCS Safety I/O Connection Function (A05B-2600-J568)
 - Basic safety functions are available as standard.
- Corner Region (A05B-2600-R654)
 - The speed is maintained constant moving through corners.
- Singularity Avoidance (A05B-2600-R792)
- Simple Force Control with integrated sensor
- Simple Screwdriving Icon Instruction

For CRX-3iA

- Installation Pose Measurement
 - Automatically determines pose of robot based on mounting angle

Tablet Teach Pendant

- Supplied by FANUC, including tablet with 10in. large screen
- Tablet prepared by customers is also possible



Tablet Teach Pendant

- Tough tablet comes dust/liquid proof and impact resistant
 - IP54 for whole Tablet TP
 - IP68 for tablet body
- Industrial safety built into tablet teach pendant

Emergency
Stop Button



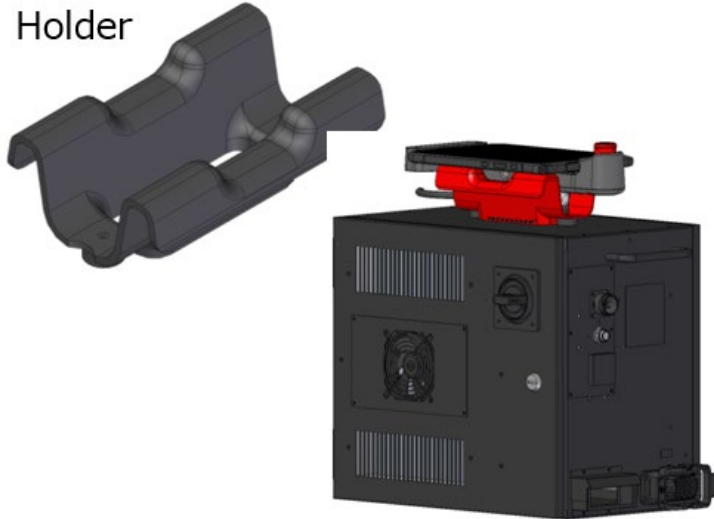
3-position enable
switch (safety switch)



TP Holder and Hook Option

- Optional holder and hook for the Tablet TP
- The holder and hook can be attached on a plate with a magnet

Holder



Hook



Teach Pendant Possibilities

Tablet TP (Standard)

(New UIF)



Intuitive UIF for beginner

Tablet TP (Standard)

(iPendant UIF)



Same screen as
traditional *i*Pendant

*i*Pendant (Optional)



Traditional *i*Pendant

Intuitive Touch Panel User Interface

Menu and Status Bar

- Dropdown menu
- Status icons

3D View Area

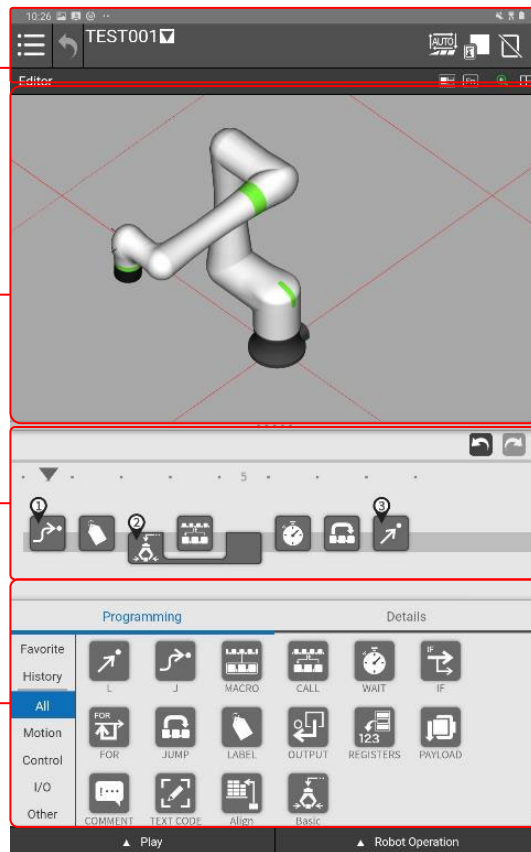
- Robot status graphics
- Displays teaching points

Timeline Program View

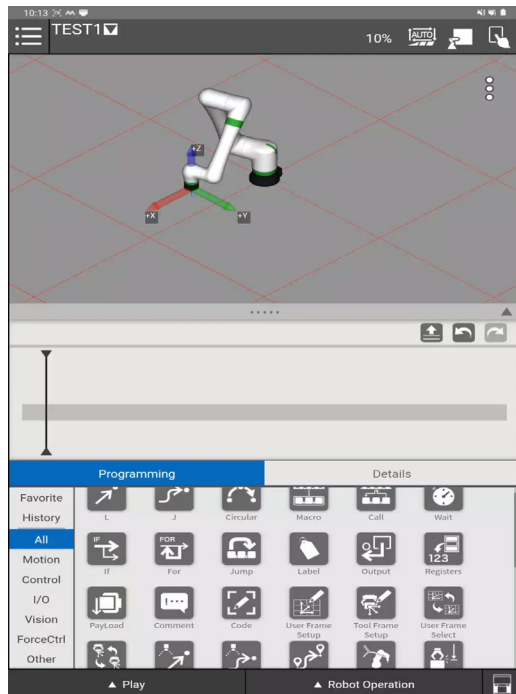
- Intuitive program representation
- Simple program navigation

Programming

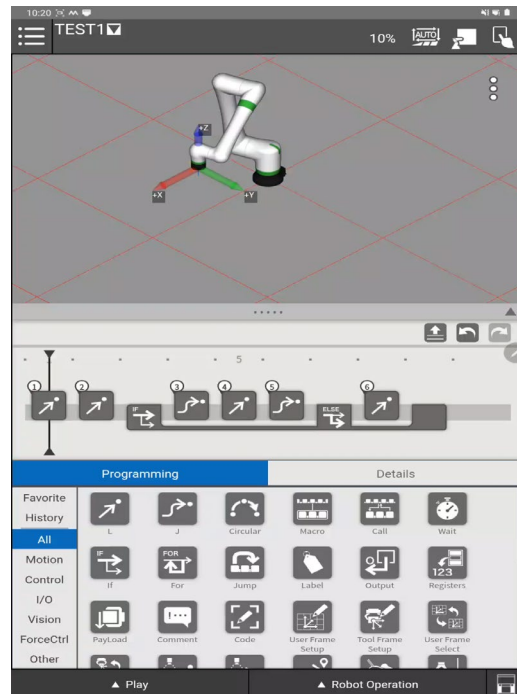
- Drag & drop icons to the timeline
- Parameters adjustable in details



New User Interface - Editor

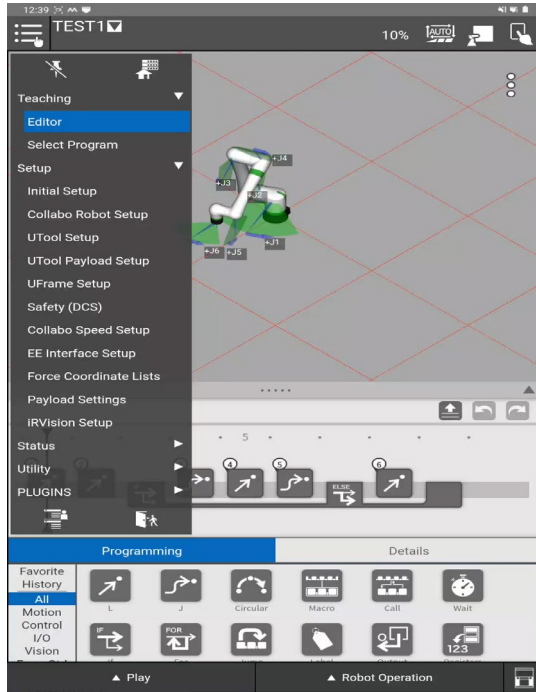


- Intuitive, easy programming even for novice users
- Drag & drop icons to the timeline to teach

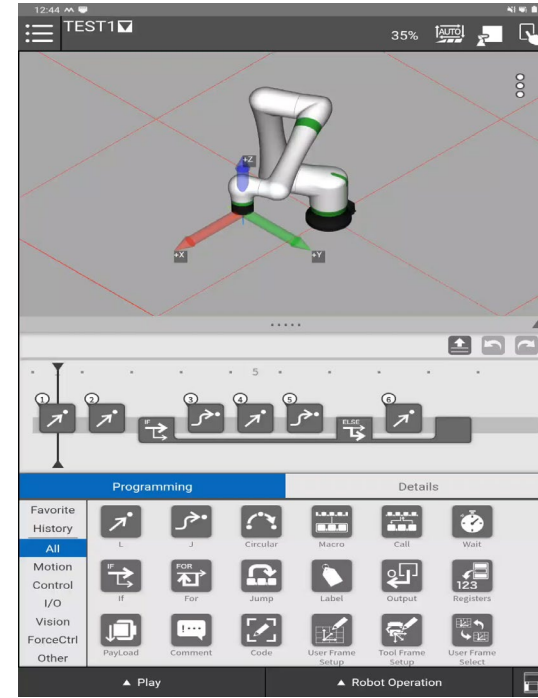


- Intuitive Jogging for fine tuning positions

New User Interface

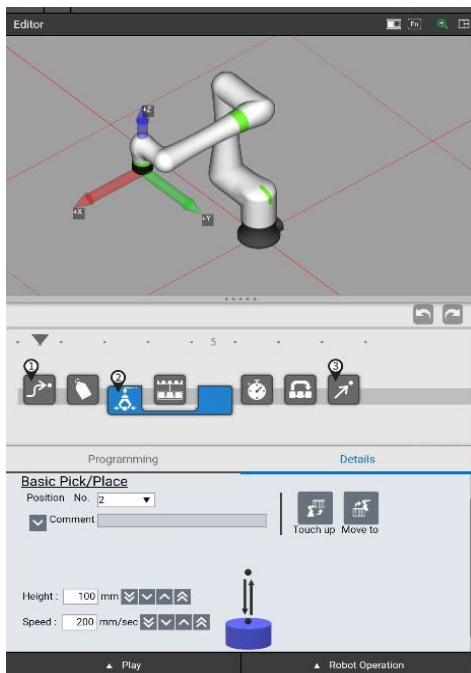


- Updated Screens
- Modern Look
- Easier to Use



Touch icons in the Timeline to show the details and modify parameters

New User Interface



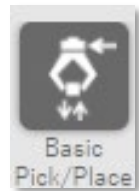
- Built in programming aids and templates



- Create custom icons for specific applications (for motion or I/O command)

Easy Application Setup

- Setup real applications easily with Advanced Icon Instructions!



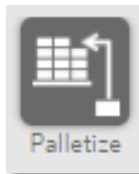
Height : mm

Speed : mm/sec

Navigation buttons: Down, Up, Left, Right (for Height); Down, Up, Left, Right (for Speed)

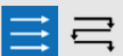
Visual feedback: A blue cylinder with a vertical double-headed arrow indicating height adjustment.

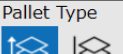
Pick/Place with
single icon



Pallet Data

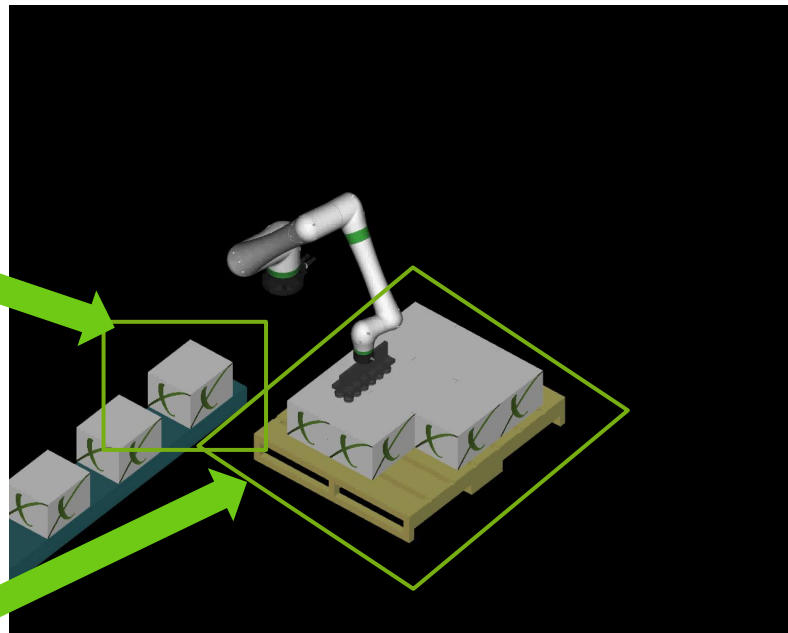
Rows: Columns:

Pallet Pattern: 

Pallet Type: 

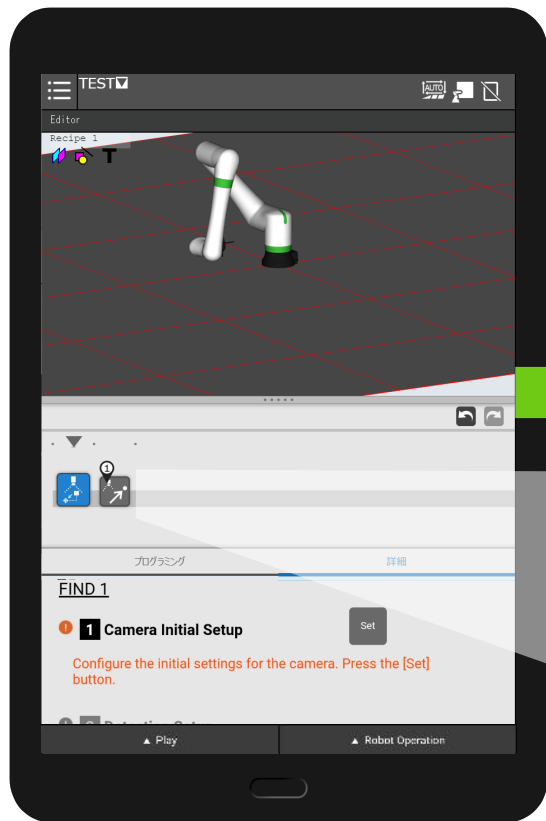
Visual feedback: A 3x3 grid of cylinders with numbered arrows (1, 2, 3) indicating the pick/place sequence.

Easy Pallet
Setup

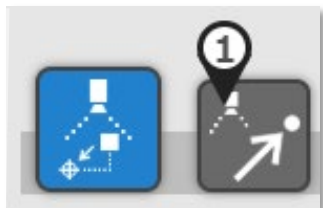


Easy Vision Setup

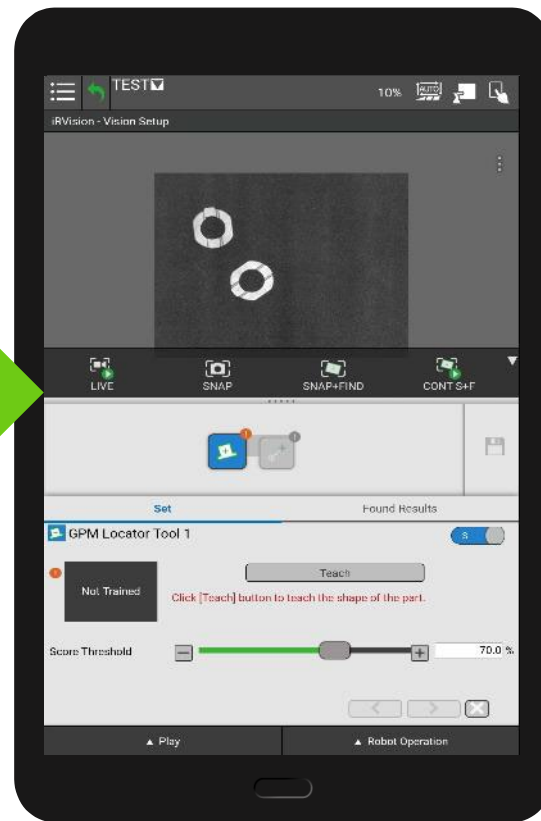
- Easily setup *iR*Vision applications with new Tablet TP UI!



Integrated
Vision Setup



FIND Offset
Motion



Easy
Calibration

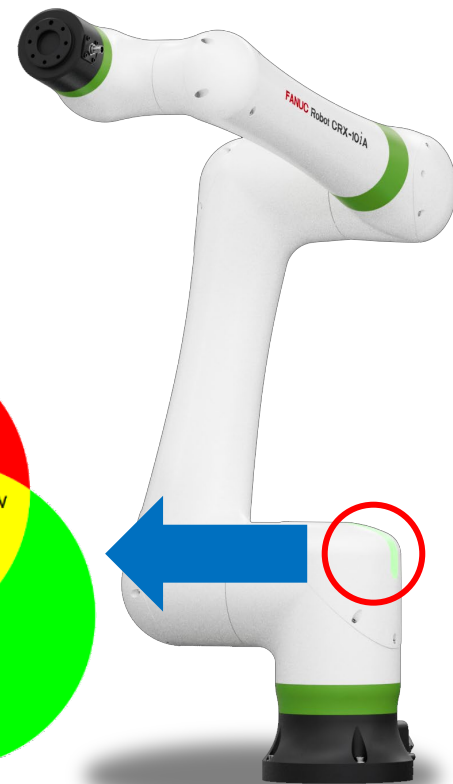
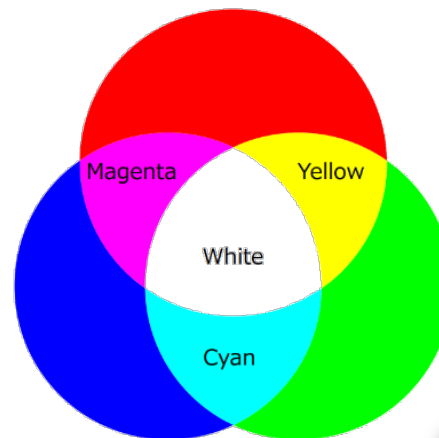
Parameter
Auto-tuning

New CRX LED Control

For all Standard CRX models

- Users can configure the below items to control the LEDs.
 - LED control ENABLE/DISABLE
 - ENABLE: The LEDs can be controlled by external signals.
 - DISABLE (default): The LEDs lights up according to the default pattern in the manual.
 - Red, Green, Blue, Flash, and Flash Interval
- The LED can emit up to 7 different colors using color combinations of Red, Green, and Blue.
- Requires Software Version V9.40P/79 or higher
- Requires Software option (S629).

BCS	
Collaborative robot	
LED control:	ENABLE
Red:	F [1]
Green:	F [2]
Blue:	F [3]
Flash:	F [4]
Flash Interval:	500 [ms]
[TYPE]	



NEW CRX-30iA 40kg Option



- 40kg payload option for Wrist Down Palletizing
- Available on R-30iB Plus and R-50iA platforms @ 220VAC
- Increased Air capacity (Optional)
 - 2x internal Air available to handle additional payload capacity
 - Cable Configuration for 2 internal airlines: EE1, EE2, ASAP, ESx and Air 2x
 - **No Wrist Buttons**
- Available v9.40P87 included in the core software

COMING SOON CRX-30iA High Inertia/Lift Assist



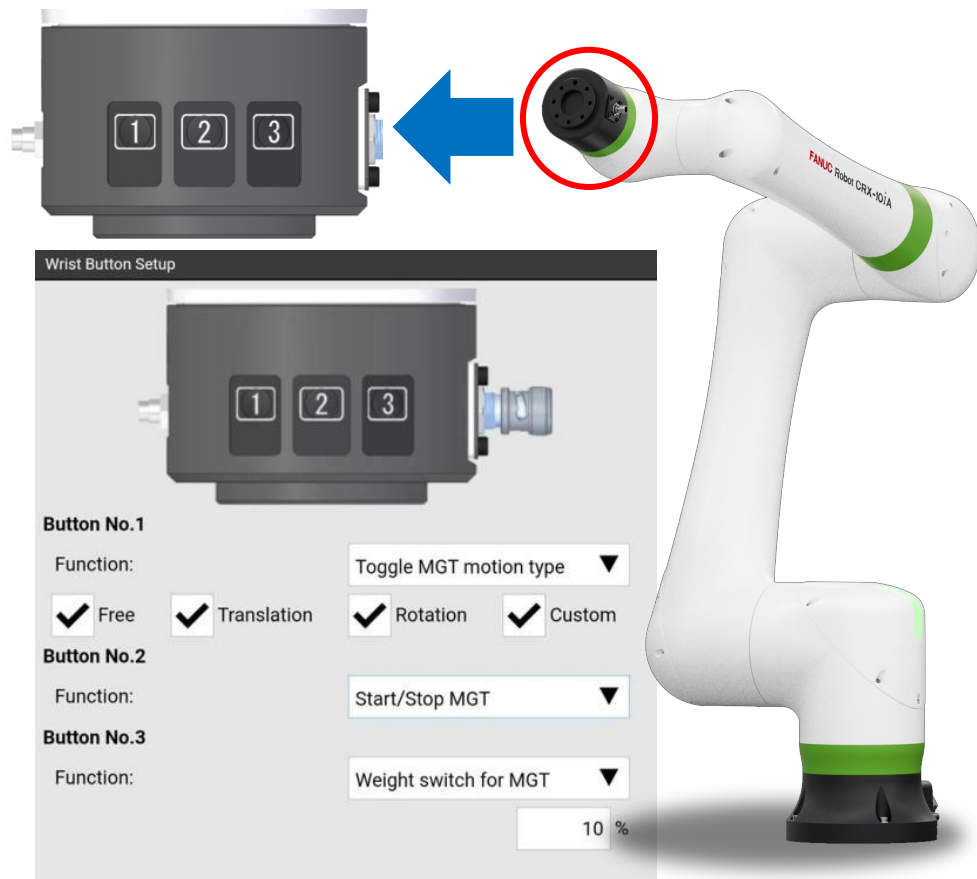
- **High inertia mode**
- Allows CRX to handle heavy loads up to 4x greater than basic mode
- In combination with a lift assist, CRX picks a 220kg steel drum and places it on a conveyor, all while maintaining collaborative operation.
- Expected to be available in End of July 2026 **v9.40P/89** included in the core software

CRX Wrist Button Function

- 3 User Definable buttons to aid in Pendant free programming.
- Requires Wrist Button unit and Software option (S529).
- IP67 is maintained.
- Button Function is defined on the Wrist Button Setup page.

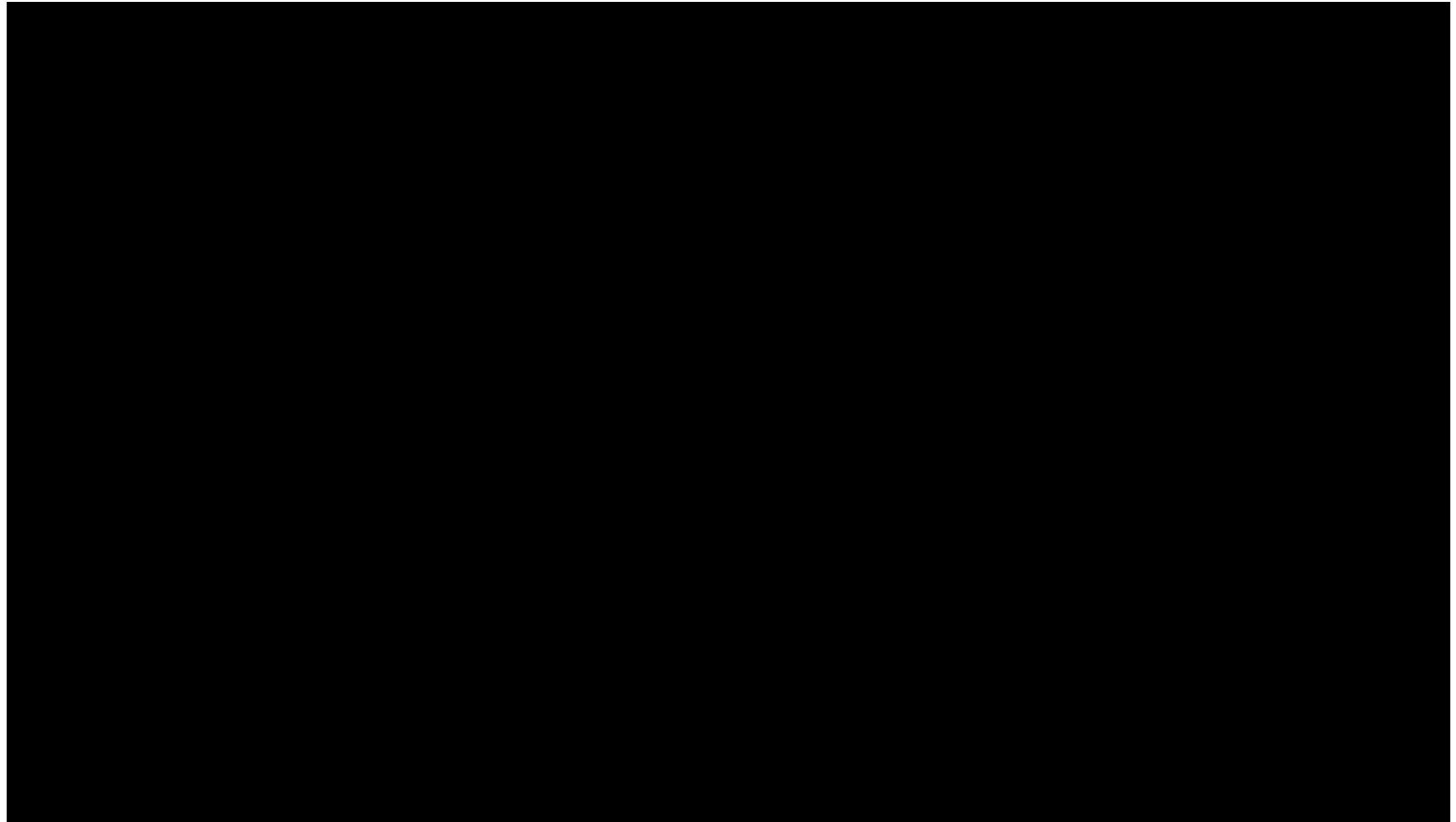
Note: CRX-30*i*A loses EE2 connection with addition of the Wrist Button Unit. All other models unaffected.

For all Standard CRX models
(not available for Food Models)



CRX Wrist Button Function

For all Standard CRX models
(not available for Food Models)



CRX Wrist Button Function

For all Standard CRX models
(not available for Food Models)



Handling Variable and Unknown Payloads

- Adaptive compensation for unknown payloads using internal robot sensor every cycle
- Ability to handle variable payloads during cycle from external system data

Payload Compensation

- Available on CRX-Series, CR-35*i*B, CR-15*i*A
- Included in standard software
 - May require an auto update to latest software



Peripheral Software Interface

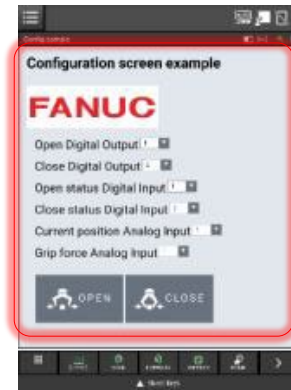
- Dedicated instructions and setup screens for third-party provided devices can be installed as using a plugin software
- Compatible devices for CRX plugin with link to provider's web site are listed on the FANUC web site
- Plugin software development tool is available for provider
- Please access <https://crx.fanucamerica.com/device-supplier-sign-up> and Click “Join Device

Suppliers” and choose FANUC Robot CRX plugin development and

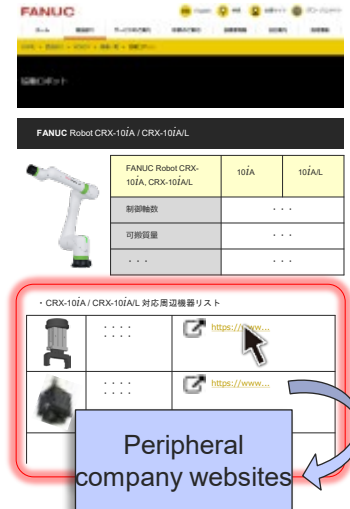
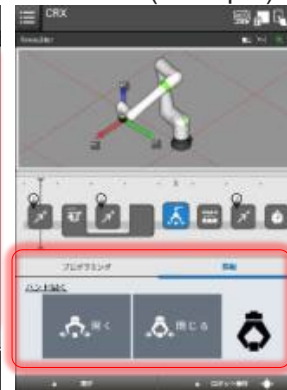
our team will be in touch.



Main menu (example)



Custom command/details screen (example)



FANUC website (example)

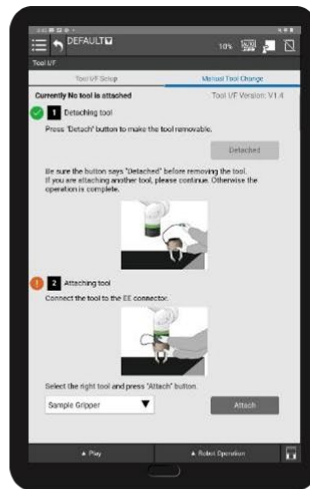
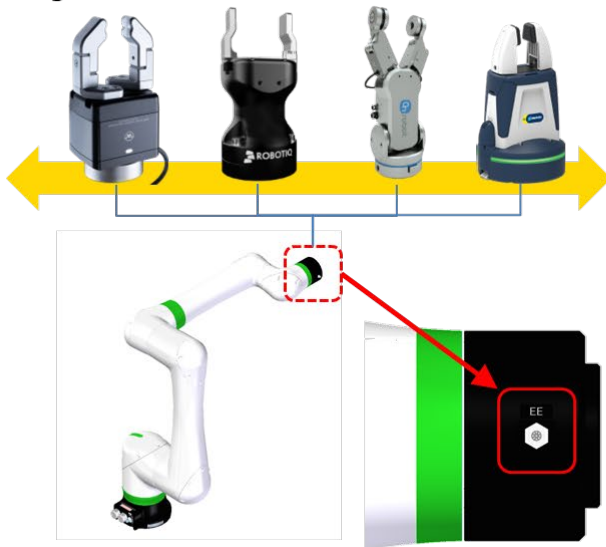
Peripheral Software Interface

Simple, Easy Connection to Peripheral devices

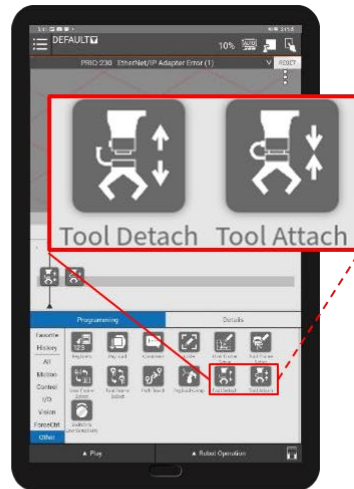
CRX Tool Change Function

- Allows user dynamically swapping the tools connected to the EE connector without turning off the robot controller.
- Supports Tool Detach / Tool Attach icon instruction.
- Supports Manual Tool Change screen to manually attach/detach the tools.

Plug-in tools connected to the EE connector



Manual Tool Change Screen



Tool Detach / Attach icon instruction

FANUC CRX Food Series Line up



CRX-5iA

5kg payload and
994mm reach



CRX-10iA

10kg payload and
1,249mm reach



CRX-10iA/L

10kg payload and
1,418mm reach



CRX-20iA/L

20kg payload and
1,418mm reach



CRX-30iA

30kg payload and
1,756mm reach
(25kg @ 1,889mm)

Available Food Options

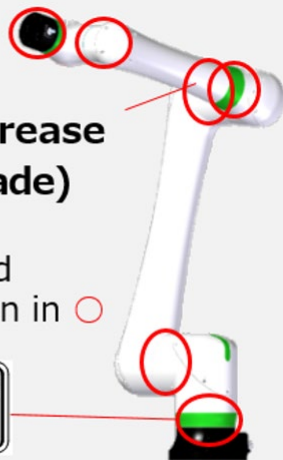
Food grease option

**Food grade grease
(NSF H1 grade)**

For reducers and
gearboxes shown in ○



**Food grade
lubrication label**



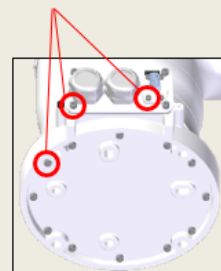
For All CRX Models (excluding CRX-3iA)

Epoxy paint option (Including Food grease option)

White epoxy paint

**rust/chemical
resistant plating**

**Changed bolts
around J1 base
to coated ones**

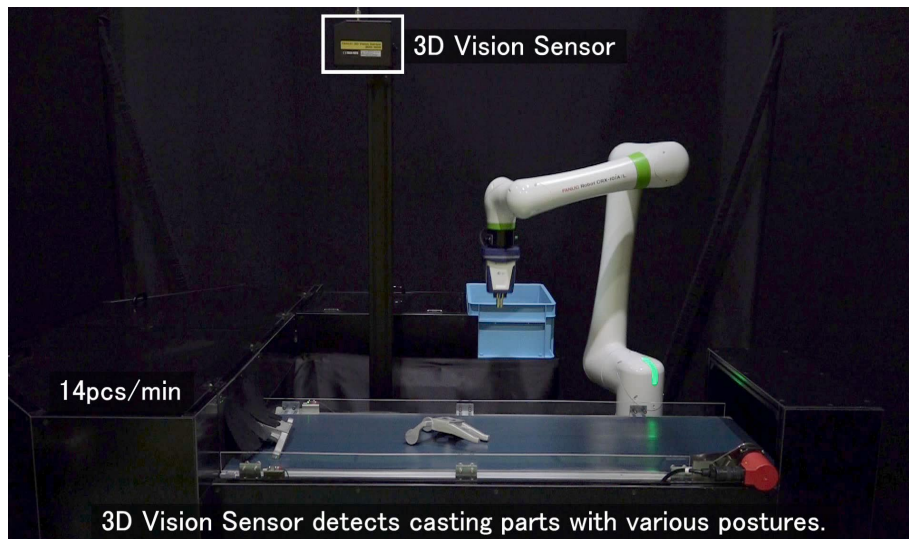


Other bolts are not
changed from standard.

CRX Applications



Machine Tending



Intelligent – Visual Tracking

CRX Applications



Assembly – Nut Running

CRX Applications

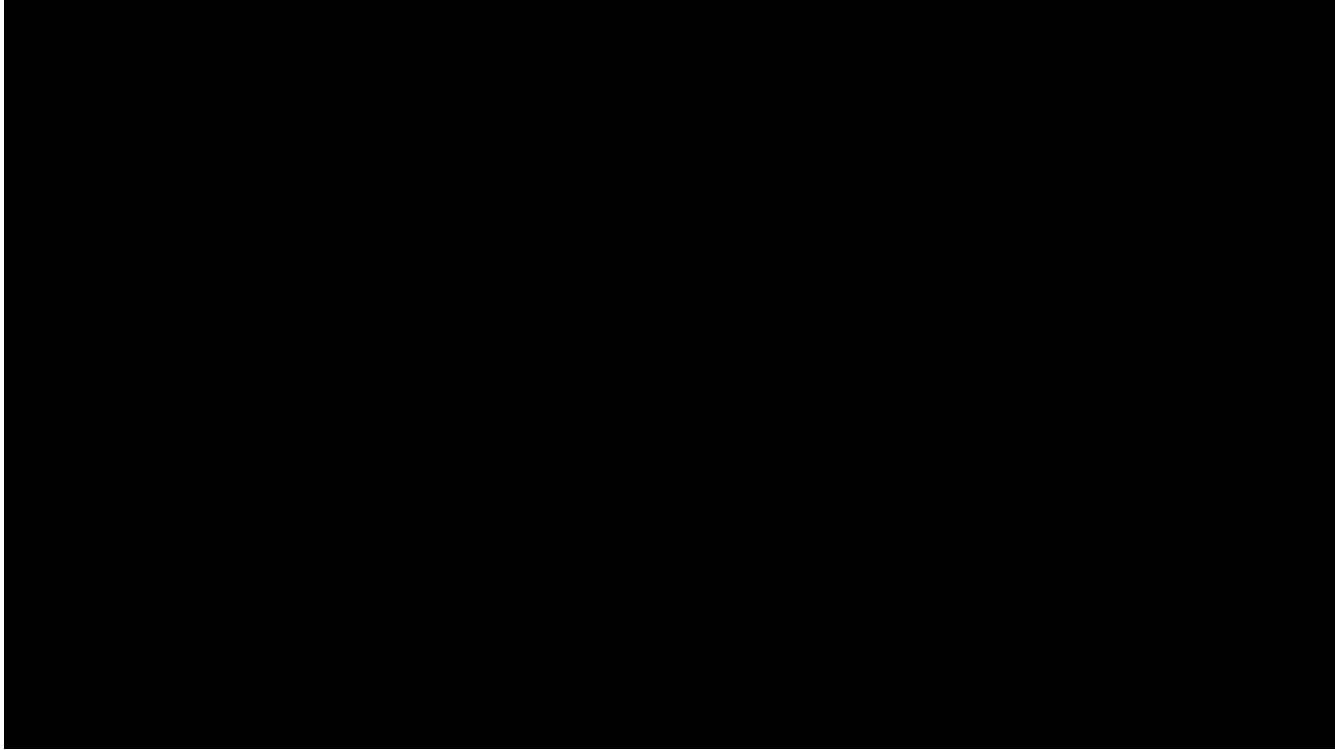


Rack Loading



Arc Welding

CRX Applications



AND MANY MORE!!!!

A close-up photograph of a FANUC industrial robot arm. The arm is white with a prominent green stripe running along its length. The text "FANUC Robot CRX-10iA/L" is printed in red and black on the white section of the arm. The background is a soft, out-of-focus blue and white, suggesting an industrial setting.

FANUC CRX Series Advantages

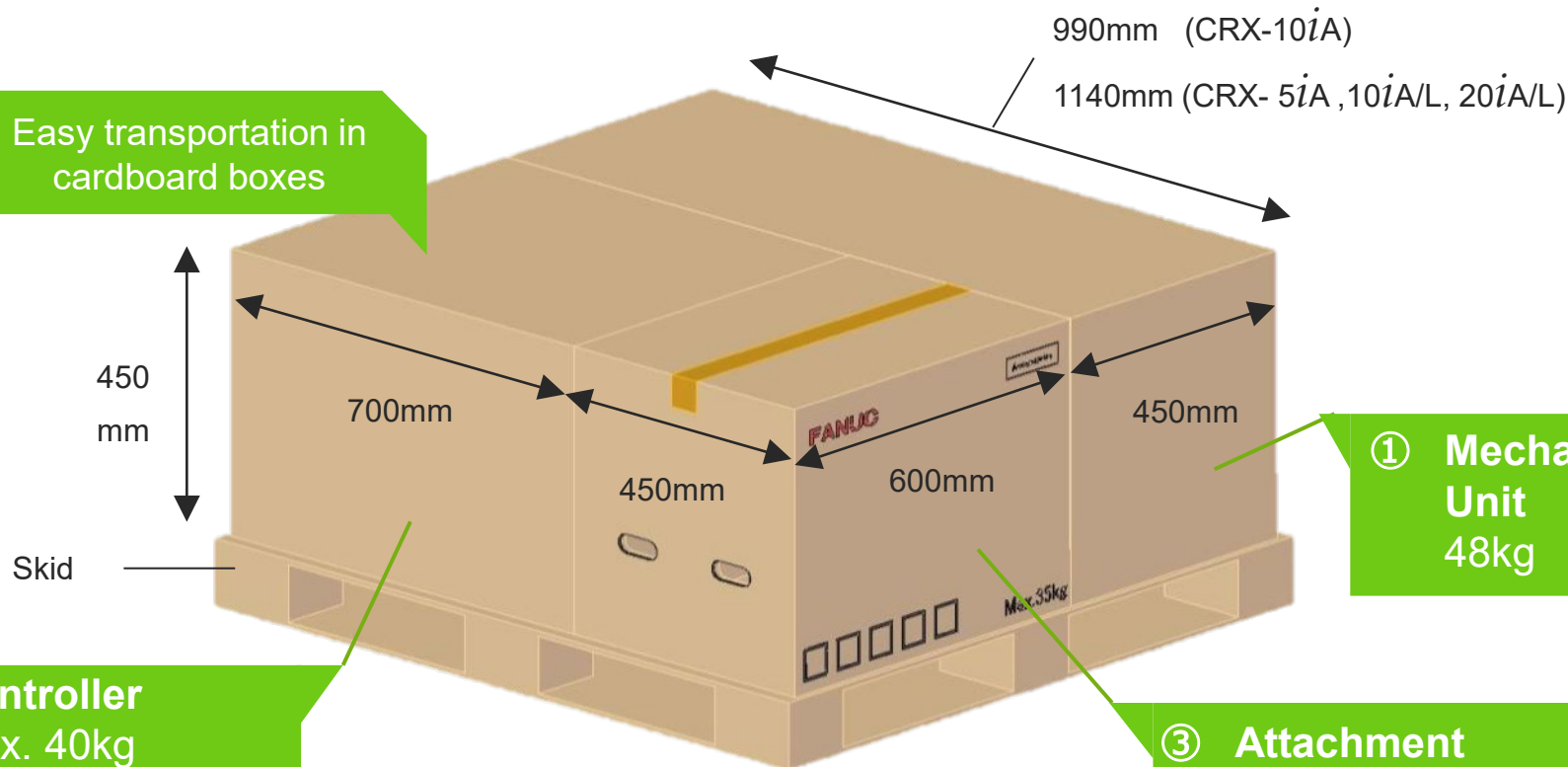
<u>Easy to Ship</u>	✓
<u>Easy to Install</u>	✓
<u>Easy to Teach</u>	✓
<u>Easy to Integrate</u>	✓
<u>Easy to Maintain</u>	✓
<u>Highest Safety</u>	✓
<u>Highest Reliability</u>	✓
<u>Highest Productivity</u>	✓
<u>Best Collaborative</u>	✓



Easy to Ship



Easy transportation in cardboard boxes



Note: CRX-30iA Shipping dimensions
1080mm (L) x 800mm (W) x 1600mm (H)

Easy to Install



Illustration of the procedure on the outer box

Easy and safe installation without a lifting equipment



Packing of mechanical unit



Remove the outer box

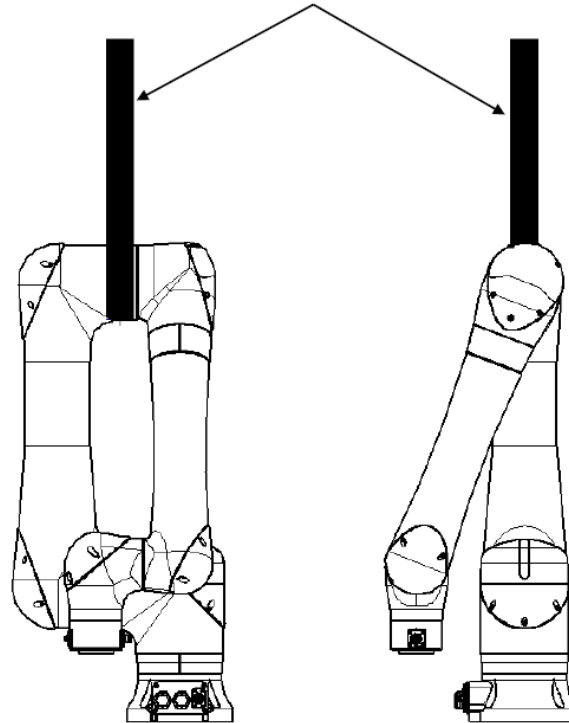


Lifting and installation by two people (all models except CRX-30iA)

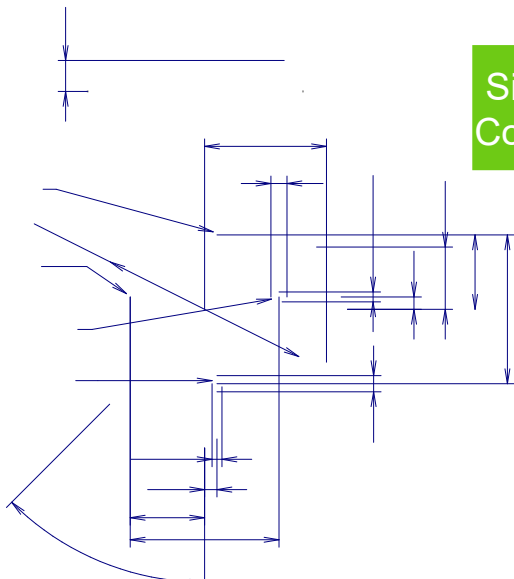
Easy to Install



CRX-30iA Requires a Sling for Installation



Easy to Install



Note: CRX-10iA, 10iA/L shown all others similar

Simple Connection Cables
Controller supports 120VAC

Mechanical weight < 41kg
Controller weight < 20kg

Quick Robot Installation -
four bolts

Lightweight Controller
And Unit



Easy to Teach

Direct Operation via
Manual Guided Teaching



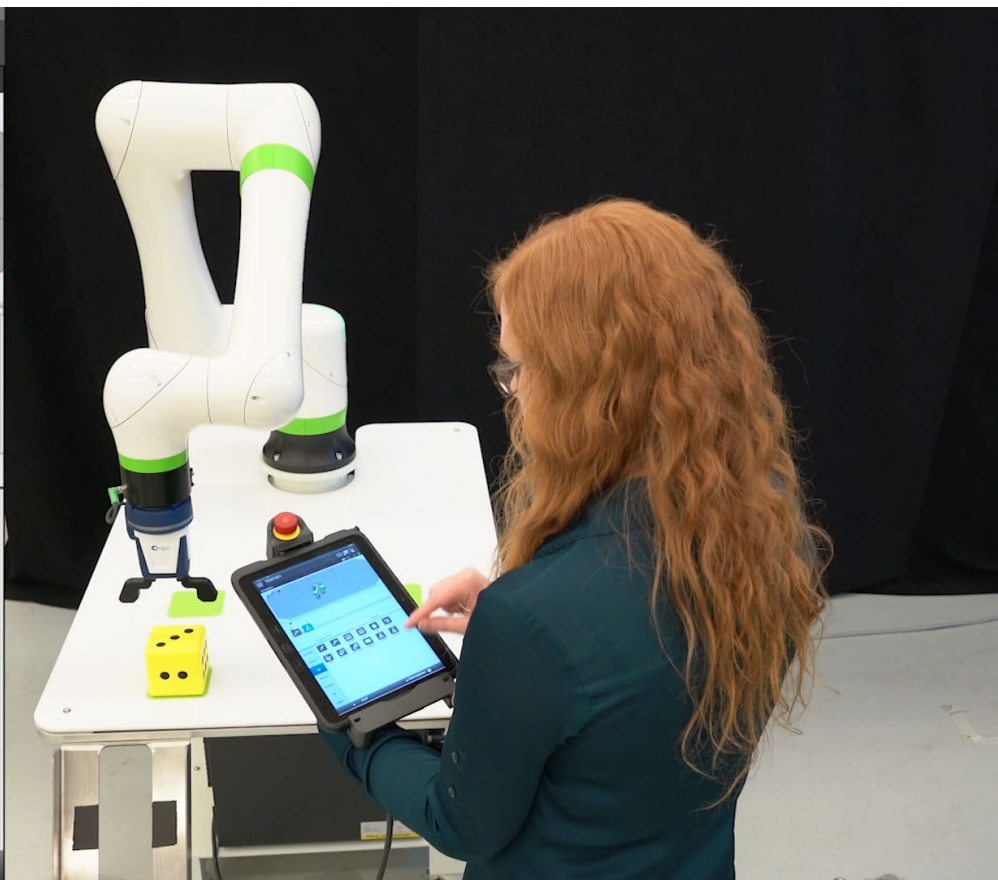
New Tablet Teach Pendant
With Large Touch Screen



CRX User Interface
With Drag and Drop Icons



Easy to Teach



Easy to Integrate



Smart EOAT interface and
cable management

New peripheral plug-in
software interface



Easy to Maintain



Maintenance-Free
(for 8 years)

- Motors
- Reducers
- Cables
- Sensors
- Grease



Simple Cover Removal
For Access

Highest Safety



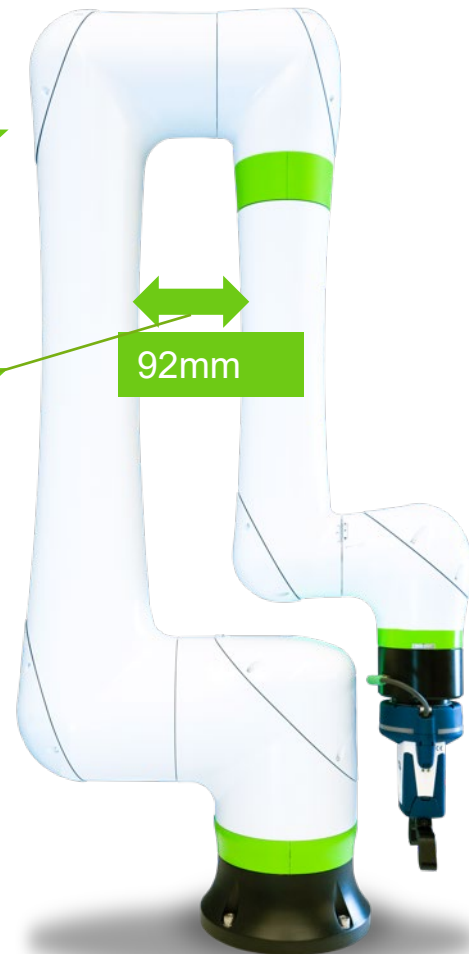
Rounded overall design –
No pinch points

Large J3 arm offset
eliminates pinch points

Safety certified to ISO
10218-1 (Conforming
to ISO/TS15066)

Safely stops with light contact
:About 10-20N(1-2kgf)

92mm



Highest Safety

Contact Stop

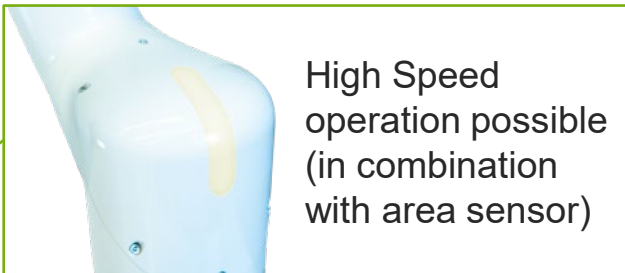
Highest Safety



Check robot status at a glance with base lamp



Collaborative Mode



High Speed operation possible
(in combination with area sensor)

High Speed operation possible



Robot stopped (Alarm)

Emergency Stop Button



Industrial safety built
Into tablet teach pendant



3-position enable
switch (safety switch)

Highest Productivity

Integrated cables for
vision or force sensor

FS-15iA



iRVision 2D

iRVision 3DV



iRVision 3DL

Support of FANUC
Intelligent Options

Enhanced FANUC Vision and Force Sensors
Connect directly to Robot Controller
(No PC is necessary)



Highest Productivity



Conventional motion
With J1 rotation

Flip under motion unique to
CRX-10*i*A/L, 20*i*A/L, 30*i*A

Reduced interference area, Improved productivity and cycle time efficiency
(J1 axis rotation is unnecessary when robot moves from front to back)

Best Collaborative



Experience the New CRX Series
Best Lightweight FANUC Collaborative Robot Ever!!

Best Collaborative Line Up

World's Biggest Line up
of Collaborative Robots
Only From FANUC!



CR-35iB

Payload: 35kg (**50kg**)
Reach: 1831mm

NEW



CRX-3iA

3kg
692mm



CRX-5iA

5kg
994mm



CRX-10iA

10kg
1249mm



CRX-10iA/L

10kg
1418mm



CRX-20iA/L

20kg
1418mm



CRX-30iA

30kg (**25kg**)
1756mm (**1889mm**)

A close-up photograph of a white FANUC collaborative robot arm. The arm is sleek and modern, with a prominent green stripe running along its length. The text "FANUC Robot CRX-10iA/L" is printed in red and black on the white surface. The background is a soft, out-of-focus blue and white, suggesting an industrial or laboratory setting.

FANUC Robot CRX-10iA/L

FANUC CRX Series

The next generation in collaborative