FEATURES

FANUC Robot CR-4iA, 7iA, 7iA/L, and 14iA/L are human arm sized mini-collaborative robots.

- 4 models with different load capacity and reach are available, depending on the application.
- A floor space can be used effectively by up-side down and wall installation.

Collaborative Operation

- This robot and a human operator can work separately in close proximity without safety fences.
- This robot can work in cooperation with a human operator. (examples: parts assembling, workpiece transfer)
- With Small Hand Guidance(option), intuitive operation and easy teaching are possible.

Safety Function

- This robot stops safely when it touches a human operator.
- A human operator can move the robot by pushing it.
- This robot is certified to meet the requirements of international standard ISO 10218-1.

Intelligence and High Reliability

- Latest intelligent functions such as iRVision (Integrated vision) and force sensor are available.
- This robot is designed with high reliability, based on the proven LR Mate models.

Application Examples

- Circuit Board Assembly
- Apply Adhesive to Windshield (Up-side Down)
Specifications

### CR-4iA
- **Model**: CR-4iA
- **Reach**: 550 mm
- **Installation (Note 1)**: Floor, Upside-down, Angle mount
- **Motion range**:
  - J1 axis: 340° ±9.53 rad
  - J2 axis: 150° ±2.61 rad
  - J3 axis: 354° ±6.17 rad
  - J4 axis: 380° ±6.63 rad
  - J5 axis: 200° ±3.49 rad
  - J6 axis: 720° ±12.57 rad
- **Maximum speed (Note 3, Note 4)**: 1000 mm/s
- **Allowable load moment at wrist**:
  - J4 axis: 8.86 N·m
  - J5 axis: 8.86 N·m
  - J6 axis: 4.90 N·m
- **Allowable load inertia at wrist**:
  - J4 axis: 0.20 kg·m²
  - J5 axis: 0.20 kg·m²
  - J6 axis: 0.067 kg·m²
- **Repeatability (Note 5)**: ±0.01 mm
- **Mass (Note 6)**: 48 kg
- **Installation environment**:
  - Ambient temperature: 0 to 45°C
  - Ambient humidity: Normally 75% RH or less (No dew nor frost allowed)
  - Vibration acceleration: 4.9 m/s² (0.5G) or less

### CR-7iA
- **Model**: CR-7iA
- **Reach**: 717 mm
- **Installation (Note 1)**: Floor, Upside-down, Angle mount
- **Motion range**:
  - J1 axis: 340° ±9.53 rad
  - J2 axis: 150° ±2.61 rad
  - J3 axis: 373° ±6.51 rad
  - J4 axis: 380° ±6.63 rad
  - J5 axis: 240° ±4.18 rad
  - J6 axis: 720° ±12.57 rad
- **Maximum speed (Note 3, Note 4)**: 1000 mm/s
- **Allowable load moment at wrist**:
  - J4 axis: 16.6 N·m
  - J5 axis: 16.6 N·m
  - J6 axis: 9.4 N·m
- **Allowable load inertia at wrist**:
  - J4 axis: 0.47 kg·m²
  - J5 axis: 0.47 kg·m²
  - J6 axis: 0.15 kg·m²
- **Repeatability (Note 5)**: ±0.01 mm
- **Mass (Note 6)**: 53 kg
- **Installation environment**:
  - Ambient temperature: 0 to 45°C
  - Ambient humidity: Normally 75% RH or less (No dew nor frost allowed)
  - Vibration acceleration: 4.9 m/s² (0.5G) or less

### CR-7iA/L
- **Model**: CR-7iA/L
- **Reach**: 911 mm
- **Installation (Note 1)**: Floor, Upside-down, Angle mount
- **Motion range**:
  - J1 axis: 340° ±9.53 rad
  - J2 axis: 166° ±2.89 rad
  - J3 axis: 383° ±6.68 rad
  - J4 axis: 380° ±6.63 rad
  - J5 axis: 240° ±4.18 rad
  - J6 axis: 720° ±12.57 rad
- **Maximum speed (Note 3, Note 4)**: 1000 mm/s
- **Allowable load moment at wrist**:
  - J4 axis: 16.6 N·m
  - J5 axis: 16.6 N·m
  - J6 axis: 9.4 N·m
- **Allowable load inertia at wrist**:
  - J4 axis: 0.47 kg·m²
  - J5 axis: 0.47 kg·m²
  - J6 axis: 0.15 kg·m²
- **Repeatability (Note 5)**: ±0.01 mm
- **Mass (Note 6)**: 55 kg
- **Installation environment**:
  - Ambient temperature: 0 to 45°C
  - Ambient humidity: Normally 75% RH or less (No dew nor frost allowed)
  - Vibration acceleration: 4.9 m/s² (0.5G) or less

### CR-14iA/L
- **Model**: CR-14iA/L
- **Reach**: 911 mm (load capacity <12kg)
  - 911 mm (load capacity ≥12kg)
- **Installation (Note 1)**: Floor, Upside-down, Angle mount
- **Motion range**:
  - J1 axis: 340° ±9.53 rad
  - J2 axis: 166° ±2.89 rad
  - J3 axis: 383° ±6.68 rad
  - J4 axis: 380° ±6.63 rad
  - J5 axis: 240° ±4.18 rad
  - J6 axis: 720° ±12.57 rad
- **Maximum speed (Note 3, Note 4)**: 1000 mm/s
- **Allowable load moment at wrist**:
  - J4 axis: 16.6 N·m
  - J5 axis: 16.6 N·m
  - J6 axis: 9.4 N·m
- **Allowable load inertia at wrist**:
  - J4 axis: 0.47 kg·m²
  - J5 axis: 0.47 kg·m²
  - J6 axis: 0.15 kg·m²
- **Repeatability (Note 5)**: ±0.01 mm
- **Mass (Note 6)**: 55 kg
- **Installation environment**:
  - Ambient temperature: 0 to 45°C
  - Ambient humidity: Normally 75% RH or less (No dew nor frost allowed)
  - Vibration acceleration: 4.9 m/s² (0.5G) or less

---

**Note 1**: In case of the wall mount, the operation space will be restricted according to the payload.

**Note 2**: A total weight including the equipment and connection cables and its swing must not exceed this value when you install the equipment.

**Note 3**: During short distance motions, the speed may not reach the maximum value stated.

**Note 4**: It is necessary to set a motion speed according to risk assessment of system.

**Note 5**: Compliant with ISO9283.

**Note 6**: Without controller.