

## Robot *i* series

ROBOT

Cost Savings through Intelligent Robotization for the 21<sup>st</sup> Century

GENERAL CATALOG

**FANUC**

# Advantage of using robots

- FANUC Robots will provide your factories with a wide range of advantages.

## Increased Productivity

- Robots are able to handle products that are too heavy and unsafe for humans to lift.
- Robots are able to operate faster than humans.
- Robots can work nights, weekends, holidays, and in "lights out" facilities without a rest.

## Improved Work Reliability

- Robots are highly durable and can be relied on for a long-term operation.
- Robots are able to perform complex tasks and operations on behalf of humans.
- No sudden surprises such as sick leave or retirement exists.

## Higher Product Quality

- Robots are more accurate than manual labor.
- Robots provide higher product quality more consistently than manual labor.

## Reduced Costs

- Replacing manual operations with robots can reduce personnel costs.
- Easier system or process changeover can be realized.

Collaborative Operation



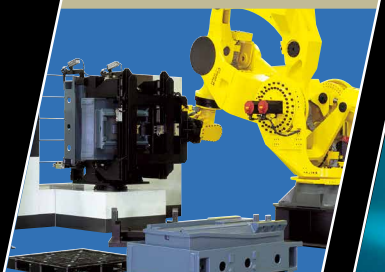
Spot Welding



# Various application of robots

- FANUC has a wide range of robot types and models available for various applications.
- Various features are available for FANUC robots to make a maximum use of robot flexibilities.

Load/unload



Arc Welding



Bin Picking



Logistics/Warehouse



Assembly



Deburring



Pharmaceuticals



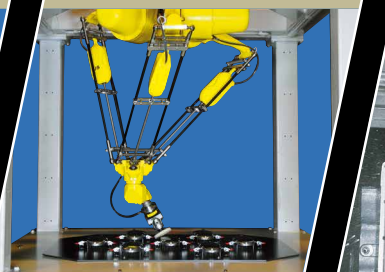
Food Packing



Error Proofing



Polishing



Washing



Painting



# Features of FANUC Robot

High Reliability

High Efficiency

High Flexibility



## High Reliability

### Reliable

FANUC designs and manufactures all robot components with the highest quality and durability, including mechanical arms, servo motors, controllers, software, and sensors.

### Predictable

Diagnostic features can inform you of conditions in which a robot may fail, allowing for preventative maintenance on the robot before a failure.

### Easy to Repair

- Robot mechanical units are designed for easy maintenance.
- Diagnostic features can estimate causes of failure, assisting your quick repair.

## High Efficiency

### Learning Robot

The Learning Robot provides smooth and high-speed motion by suppressing robot vibration. This enhances the robot's productivity and the efficiency of a production line, which contributes to reduced overall system costs. Also the Learning Robot enhances the performance of handling a heavy jig or workpiece, which causes robot vibration.



## High Flexibility

### Collaborative Robot

CR-35iA is a 35kg payload collaborative robot that can work without safety fences. This robot can work in cooperation with a human operator and bring production efficiency and save labor in your factories.



### iRVision - Integrated Robot Vision

Vision hardware is integrated in the robot controller as standard. 2D compensation, 3D compensation, color sorting, error proofing, bar code reading, etc. can be realized just by connecting Camera or 3D area sensor on the controller. Also, vision teaching and camera viewing can be done on the robot teach pendant.



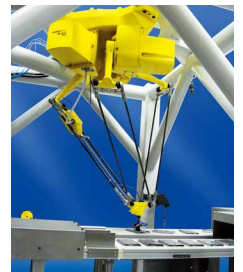
## Zero Down Time

Zero Down Time combines various functions useful for preventive maintenance and helps to improve production efficiency by controlling these functions from a centralized server. This allows failures to be "Predictable".



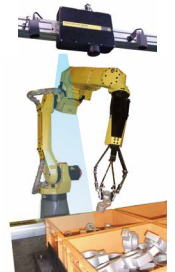
## Visual Tracking

Through Visual Tracking the robot tracks and picks parts moving on a conveyor by utilizing the vision sensor located upstream. Multiple robots connected via a network can automatically divide the workload among the robots, allowing for automation in various picking and packing processes.



## Bin Picking Robot

The Bin Picking Robot equipped with a vision sensor automates the picking process of randomly piled parts in a bin. The parts do not need to be arranged in advance, eliminating the need for positioning fixtures. It also allows for easy part changeover. The Bin Picking Robot enables unmanned part handling in your factories.



## Force Sensor/Deburring-Polishing

The Six-Axis Force Sensor, equipped on the robot's wrist, enables a contouring motion of the robot tool while maintaining a designated pushing force to the part. The force-controlled robot contributes to automating processes such as deburring of machined part edges and polishing of part surfaces.



# FANUC Robot *i* series



CR-35iA



M-1iA



M-2iA



M-3iA



LR Mate 200iD/4S



LR Mate 200iD



LR Mate 200iD/7L

## Collaborative Robot

| FANUC Robot CR-35iA |  |                                   |
|---------------------|--|-----------------------------------|
|                     | Controlled axes                          | 6                                 |
|                     | Max.payload at wrist                     | 35kg                              |
|                     | Motion range(X,Y)                        | 1813mm, 2931mm                    |
|                     | Repeatability                            | ±0.08mm                           |
|                     | Mass                                     | 990kg                             |
|                     | Installation                             | Floor                             |
|                     | Matching controller/Input power capacity | R-30iB controller(A-cabinet)/3kVA |
|                     | Application                              | Handling, Assembling              |

## Genkotsu-robot, Mini Robot

| FANUC Robot M-1iA |  | /0.5A   | /0.5S      | /1H  | /0.5AL            | /0.5SL | /1HL |
|-------------------|--|---|------------|------|-------------------|--------|------|
|                   | Controlled axes                          | 6   | 4          | 3    | 6                 | 4      | 3    |
|                   | Max.payload at wrist                     | 0.5kg(option:1kg)                               | 1kg        | 1kg  | 0.5kg(option:1kg) | 1kg    | 1kg  |
|                   | Motion range(X,Y)                        | φ280mm, 100mm                                   |            |      | φ420mm, 150mm     |        |      |
|                   | Repeatability                            | ±0.02mm   |            |      | ±0.03mm           |        |      |
|                   | Mass(without stand)                      | 17kg  | 14kg       | 12kg | 20kg              | 17kg   | 15kg |
|                   | Installation                             | Floor, Ceiling, Angle                           |            |      |                   |        |      |
|                   | Matching controller/Input power capacity | R-30iB Mate controller(standard, open air)/1kVA |            |      |                   |        |      |
|                   | Application                              | Handling  | Assembling |      |                   |        |      |

| FANUC Robot M-2iA |  | /3A  | /3S        | /6H   | /3AL           | /3SL  | /6HL  |
|-------------------|--|--|------------|-------|----------------|-------|-------|
|                   | Controlled axes                          | 6  | 4          | 3     | 6              | 4     | 3     |
|                   | Max.payload at wrist                     | 3kg  | 6kg        | 6kg   | 3kg            | 6kg   | 6kg   |
|                   | Motion range(X,Y)                        | φ800mm, 300mm  |            |       | φ1130mm, 400mm |       |       |
|                   | Repeatability                            | ±0.1mm   |            |       |                |       |       |
|                   | Mass                                     | 140kg  | 130kg      | 125kg | 140kg          | 130kg | 125kg |
|                   | Installation                             | Ceiling  |            |       |                |       |       |
|                   | Matching controller/Input power capacity | R-30iB controller(A-cabinet), R-30iB Mate controller(standard, open air)/12kVA |            |       |                |       |       |
|                   | Application                              | Handling   | Assembling |       |                |       |       |

| FANUC Robot M-3iA |  | /6A  | /6S             | /12H  |
|-------------------|--|--|-----------------|-------|
|                   | Controlled axes                          | 6  | 4               | 3     |
|                   | Max.payload at wrist                     | 6kg  | 6kg(option:8kg) | 12kg  |
|                   | Motion range(X,Y)                        | φ1350mm, 500mm   |                 |       |
|                   | Repeatability                            | ±0.1mm   |                 |       |
|                   | Mass                                     | 175kg  | 160kg           | 155kg |
|                   | Installation                             | Ceiling  |                 |       |
|                   | Matching controller/Input power capacity | R-30iB controller(A-cabinet), R-30iB Mate controller(standard, open air)/12kVA |                 |       |
|                   | Application                              | Handling   | Assembling      |       |

| FANUC Robot LR Mate 200iD |  | 200iD  | /7L           | /4S          |
|---------------------------|--|--|---------------|--------------|
| FANUC Robot ARC Mate 50iD |  | 50iD   | /7L           |              |
|                           | Controlled axes                          | 6  |               |              |
|                           | Max.payload at wrist                     | 7kg  |               | 4kg          |
|                           | Motion range(X,Y)                        | 717mm, 1274mm                                    | 911mm, 1643mm | 550mm, 970mm |
|                           | Repeatability                            | ±0.02mm  | ±0.03mm       | ±0.02mm      |
|                           | Mass                                     | 25kg   | 27kg          | 20kg         |
|                           | Installation                             | Floor, Upside-down, Angle                        |               |              |
|                           | Matching controller/Input power capacity | R-30iB Matecontroller(standard, open air)/1.2kVA |               |              |
|                           | Application                              | Handling   | Assembling    | Arc welding  |
|                           |  | Sealing  | Others        |              |
|                           |  | Mold release spray, Deburring                    |               |              |

| FANUC Robot LR Mate 200iD |  | /7WP  | /7C           | /7LC         | /4SC          | /7H          | /4SH |
|---------------------------|--|---|---------------|--------------|---------------|--------------|------|
|                           | Controlled axes                          | 6   |               |              | 5             |              |      |
|                           | Max.payload at wrist                     | 7kg   |               | 4kg          | 7kg           | 4kg          |      |
|                           | Motion range(X,Y)                        | 717mm, 1274mm                                     | 911mm, 1643mm | 550mm, 970mm | 717mm, 1274mm | 550mm, 970mm |      |
|                           | Repeatability                            | ±0.02mm   | ±0.03mm       |              | ±0.02mm       |              |      |
|                           | Mass                                     | 25kg  | 27kg          | 20kg         | 24kg          | 19kg         |      |
|                           | Installation                             | Floor, Upside-down, Angle                         |               |              |               |              |      |
|                           | Matching controller/Input power capacity | R-30iB Matecontroller(standard, open air)/ 1.2kVA |               |              |               |              |      |
|                           | Application                              | Handling  | Assembling    | Washing      | Clean room    |              |      |
|                           |  |   |               |              |               |              |      |
|                           |  |   |               |              |               |              |      |



## Arc Welding Robot, Small/Medium Size Robot

| FANUC Robot ARC Mate 0iB |  |  |
|--------------------------|--|--|
|                          | Controlled axes                          | 6  |
|                          | Max.payload at wrist                     | 3kg                                      |
|                          | Motion range(X,Y)                        | 1437mm, 2537mm                           |
|                          | Repeatability                            | ±0.08mm                                  |
|                          | Mass                                     | 99kg (in case of pedestral option:145kg) |
|                          | Installation                             | Floor, Upside-down, Angle                |
|                          | Matching controller/Input power capacity | R-30iB Mate controller(standard) / 2kVA  |
|                          | Application                              | Arc welding                              |

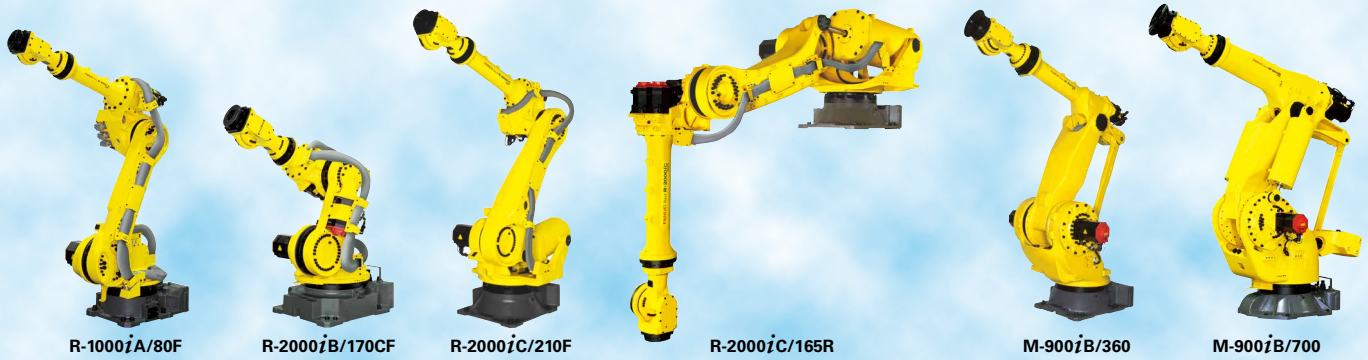
| FANUC Robot M-10iA         |  | /12S  | /12            | /7L            | /8L            | /10MS          | /10M           |
|----------------------------|--|---|----------------|----------------|----------------|----------------|----------------|
| FANUC Robot ARC Mate 100iC |  |   |                |                |                |                |                |
|                            | Controlled axes                          | 6   |                |                |                |                |                |
|                            | Max.payload at wrist                     | 12kg  |                | 7kg            | 8kg            | 10kg           |                |
|                            | Motion range(X,Y)                        | 1098mm, 1872mm  | 1420mm, 2504mm | 1632mm, 2930mm | 2028mm, 3709mm | 1101mm, 1878mm | 1422mm, 2508mm |
|                            | Repeatability                            | ±0.05mm   |                | ±0.08mm        |                |                |                |
|                            | Mass                                     | 130kg   |                | 135kg          | 150kg          | 130kg          |                |
|                            | Installation                             | Floor, Upside-down, Angle   |                |                |                |                |                |
|                            | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet), R-30iB Mate controller(standard)/2kVA |                |                |                |                |                |
|                            | Application                              | Handling  | ●              | ●              | ●              | ●              | ●              |
|                            | Assembling                               | ●   | ●              | ●              | ●              | ●              | ●              |
|                            | Arc welding                              | ●   | ●              | ●              | ●              | ●              | ●              |
|                            | Sealing                                  | ●   | ●              | ●              | ●              | ●              | ●              |
|                            | Others                                   | Mold handling, Deburring  |                |                |                |                |                |

| FANUC Robot M-20iA         |  | M-20iA  | /12L | /20M           | /35M           |      |
|----------------------------|--|---|------|----------------|----------------|------|
| FANUC Robot ARC Mate 120iC |  | ARC Mate 120iC  | /12L |                |                |      |
|                            | Controlled axes                          | 6   |      |                |                |      |
|                            | Max.payload at wrist                     | 20kg  |      | 12kg           | 20kg           | 35kg |
|                            | Motion range(X,Y)                        | 1811mm, 3275mm  |      | 2009mm, 3672mm | 1813mm, 3278mm |      |
|                            | Repeatability                            | ±0.08mm   |      |                |                |      |
|                            | Mass                                     | 250kg   |      |                | 252kg          |      |
|                            | Installation                             | Floor, Upside-down, Angle   |      |                |                |      |
|                            | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet), R-30iB Mate controller(standard)/3kVA |      |                |                |      |
|                            | Application                              | Handling  | ●    | ●              | ●              | ●    |
|                            | Assembling                               | ●   | ●    | ●              | ●              |      |
|                            | Arc welding                              | ●   | ●    | ●              | ●              |      |
|                            | Sealing                                  | ●   | ●    | ●              | ●              |      |
|                            | Others                                   | Mold handling, Deburring  |      |                |                |      |

| FANUC Robot M-20iB |  | M-20iB/25   |
|--------------------|--|---|
|                    | Controlled axes                          | 6   |
|                    | Max.payload at wrist                     | 25kg  |
|                    | Motion range(X,Y)                        | 1853mm, 3345mm  |
|                    | Repeatability                            | ±0.06mm   |
|                    | Mass                                     | 210kg   |
|                    | Installation                             | Floor, Upside-down, Angle   |
|                    | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet), R-30iB Mate controller(standard)/3kVA |
|                    | Application                              | Handling  |
|                    | Assembling                               | ●   |
|                    | Arc welding                              | ●   |
|                    | Sealing                                  | ●   |
|                    | Others                                   | Mold handling, Deburring  |

| FANUC Robot M-710iC |  | /45M   | /50            | /70  | /12L           | /20L           | /50S           | /50H           |
|---------------------|--|--|----------------|------|----------------|----------------|----------------|----------------|
|                     | Controlled axes                          | 6  |                |      |                |                |                | 5              |
|                     | Max.payload at wrist                     | 45kg   | 50kg           | 70kg | 12kg           | 20kg           | 50kg           | 50kg           |
|                     | Motion range(X,Y)                        | 2606mm, 4575mm   | 2050mm, 3545mm |      | 3123mm, 5609mm | 3110mm, 5583mm | 1359mm, 2043mm | 2003mm, 3451mm |
|                     | Repeatability                            | ±0.1mm   | ±0.07mm        |      | ±0.15mm        |                | ±0.07mm        | ±0.15mm        |
|                     | Mass                                     | 570kg  | 560kg          |      | 540kg          |                | 545kg          | 540kg          |
|                     | Installation                             | Floor, Upside-down, Angle  |                |      |                |                |                |                |
|                     | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet), R-30iB Mate controller(standard)(Note)/12kVA |                |      |                |                |                |                |
|                     | Application                              | Handling   | ●              | ●    | ●              | ●              | ●              | ●              |
|                     | Assembling                               | ●  | ●              | ●    | ●              | ●              | ●              | ●              |
|                     | Arc welding                              | ●  | ●              | ●    | ●              | ●              | ●              | ●              |
|                     | Sealing                                  | ●  | ●              | ●    | ●              | ●              | ●              | ●              |
|                     | Spot welding                             | ●  | ●              | ●    | ●              | ●              | ●              | ●              |
|                     | Others                                   | Mold handling, Deburring, Laser cutting                                      |                |      |                |                |                |                |

(Note) R-30iB Mate controller (standard) is not available for /50 H.



R-1000iA/80F

R-2000iB/170CF

R-2000iC/210F

R-2000iC/165R

M-900iB/360

M-900iB/700

## Medium Size Robot

| FANUC Robot R-1000iA |  | /80F   | /100F | /80H           |   |
|----------------------|--|--|-------|----------------|---|
|                      | Controlled axes                          | 6  |       | 5              |   |
|                      | Max.payload at wrist                     | 80kg   | 100kg | 80kg           |   |
|                      | Motion range(X,Y)                        | 2230mm, 3738mm   |       | 2230mm, 3465mm |   |
|                      | Repeatability                            | ±0.2mm   |       |                |   |
|                      | Mass                                     | 620kg  | 665kg | 610kg          |   |
|                      | Installation                             | Floor, Upside-down   |       |                |   |
|                      | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet), R-30iB Mate controller(standard)/12kVA R-30iB controller(A, B-cabinet)/12kVA |       |                |   |
|                      | Application                              | Handling   | ●     | ●              | ● |
|                      |  | Assembling   | ●     | ●              | ● |
|                      |  | Sealing  | ●     | ●              | ● |
| Spot welding         |  | ●  | ●     | ●              |   |

## Large Size Robot

| FANUC Robot R-2000iC |  | /165F  | /210F | /125L          | /165R          | /210R |   |
|----------------------|--|--|-------|----------------|----------------|-------|---|
|                      | Controlled axes                          | 6  |       |                |                |       |   |
|                      | Max.payload at wrist                     | 165kg  | 210kg | 125kg          | 165kg          | 210kg |   |
|                      | Motion range(X,Y)                        | 2655mm, 3414mm   |       | 3100mm, 4304mm | 3095mm, 4733mm |       |   |
|                      | Repeatability                            | ±0.2mm   |       |                |                |       |   |
|                      | Mass                                     | 1090kg   |       | 1115kg         | 1370kg         |       |   |
|                      | Installation                             | Floor  |       |                |                |       |   |
|                      | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet), R-30iB Mate controller(standard)/12kVA |       |                |                |       |   |
|                      | Application                              | Handling   | ●     | ●              | ●              | ●     | ● |
|                      |  | Assembling   | ●     | ●              | ●              | ●     | ● |
|                      |  | Sealing  | ●     | ●              | ●              | ●     | ● |
| Spot welding         |  | ●  | ●     | ●              | ●              | ●     |   |
| Others               | ●  |  |       |                |                |       |   |

| FANUC Robot R-2000iB |  | /250F                                   | /210WE | /175L          | /185L          | /100P          |   |
|----------------------|--|---|--------|----------------|----------------|----------------|---|
|                      | Controlled axes                          | 6                                       |        |                |                |                |   |
|                      | Max.payload at wrist                     | 250kg                                   | 210kg  | 175kg          | 185kg          | 100kg          |   |
|                      | Motion range(X,Y)                        | 2655mm, 3414mm                          |        | 2852mm, 3809mm | 3060mm, 4225mm | 3500mm, 5459mm |   |
|                      | Repeatability                            | ±0.3mm                                  |        |                |                |                |   |
|                      | Mass                                     | 1270kg                                  | 1280kg | 1260kg         | 1290kg         | 1560kg         |   |
|                      | Installation                             | Floor                                   |        |                |                |                |   |
|                      | Matching controller/Input power capacity | R-30iB controller (A,B-cabinet) / 12kVA |        |                |                |                |   |
|                      | Application                              | Handling                                | ●      | ●              | ●              | ●              | ● |
|                      |  | Assembling                              | ●      | ●              | ●              | ●              | ● |
|                      |  | Sealing                                 | ●      | ●              | ●              | ●              | ● |
| Spot welding         |  | ●                                       | ●      | ●              | ●              | ●              |   |
| Washing              | ●  | ●                                       | ●      | ●              | ●              |                |   |
| Others               | ●  |   |        |                |                |                |   |

| FANUC Robot R-2000iB |                      | /170CF                         | /150U          | /220U          | /210FS         | /220US         | /100H          |   |
|----------------------|----------------------|--------------------------------|----------------|----------------|----------------|----------------|----------------|---|
|                      | Controlled axes      | 6                              |                |                |                |                | 5              |   |
|                      | Max.payload at wrist | 170kg                          | 150kg          | 220kg          | 210kg          | 220kg          | 100kg          |   |
|                      | Motion range(X,Y)    | 1520mm, 2279mm                 | 2655mm, 3414mm | 2470mm, 3414mm | 2605mm, 3316mm | 2443mm, 3316mm | 2655mm, 3414mm |   |
|                      | Repeatability        | ±0.15mm                        | ±0.2mm         | ±0.3mm         |                | ±0.2mm         |                |   |
|                      | Mass                 | 800kg                          | 1070kg         | 1150kg         | 1250kg         | 1160kg         | 1150kg         |   |
|                      | Installation         | Floor, Upside-down             | Upside-down    |                | Floor          | Upside-down    | Floor          |   |
|                      | Matching controller  | R-30iB controller(A,B-cabinet) |                |                |                |                |                |   |
|                      | Input power capacity | 12kVA                          |                | 15kVA          | 12kVA          | 15kVA          | 12kVA          |   |
|                      | Application          | Handling                       | ●              | ●              | ●              | ●              | ●              | ● |
|                      |                      | Assembling                     | ●              | ●              | ●              | ●              | ●              | ● |
| Sealing              |                      | ●                              | ●              | ●              | ●              | ●              | ●              |   |
| Spot welding         |                      | ●                              | ●              | ●              | ●              | ●              | ●              |   |
| Others               | ●                    |                                |                |                |                |                |                |   |

| FANUC Robot M-900iB     |                      | /360                           | /280L          | /280           | /150P          | /700                         | /400L          | /200P          |      |
|-------------------------|----------------------|--------------------------------|----------------|----------------|----------------|------------------------------|----------------|----------------|------|
|                         | Controlled axes      | 6                              |                |                |                |                              |                |                |      |
|                         | Max.payload at wrist | 360kg                          | 280kg          | 280kg          | 150kg          | 700kg                        | 400kg          | 200kg          |      |
|                         | Motion range(X,Y)    | 2655mm, 3308mm                 | 3103mm, 4200mm | 2655mm, 3308mm | 3507mm, 3876mm | 2832mm, 3288mm               | 3704mm, 4621mm | 3507mm, 3876mm |      |
|                         | Repeatability        | ±0.3mm                         |                |                |                |                              |                |                |      |
|                         | Mass                 | 1540kg                         | 1600kg         | 1700kg         | 1860kg         | 2800kg                       | 3150kg         | 2670kg         |      |
|                         | Installation         | Floor, Upside-down, Angle      |                |                | Rack           | Floor                        |                |                | Rack |
|                         | Matching controller  | R-30iB controller(A,B-cabinet) |                |                |                | R-30iB controller(B-cabinet) |                |                |      |
|                         | Input power capacity | 15kVA                          |                |                |                | 18kVA                        |                |                |      |
|                         | Application          | Handling                       | ●              | ●              | ●              | ●                            | ●              | ●              | ●    |
|                         |                      | Assembling                     | ●              | ●              | ●              | ●                            | ●              | ●              | ●    |
| Sealing                 |                      | ●                              | ●              | ●              | ●              | ●                            | ●              | ●              |      |
| Spot welding            |                      | ●                              | ●              | ●              | ●              | ●                            | ●              | ●              |      |
| Press to press handling | ●                    |                                |                |                |                |                              |                |                |      |



## Large Size Robot

| FANUC Robot M-2000iA |  | /1200                                | /900L          | /2300          | /1700L         |
|----------------------|--|--------------------------------------|----------------|----------------|----------------|
|                      | Controlled axes                          | 6                                    |                |                |                |
|                      | Max.payload at wrist                     | 1200kg(option:1350kg)                | 900kg          | 2300kg         | 1700kg         |
|                      | Motion range(X,Y)                        | 3734mm, 4683mm                       | 4683mm, 6209mm | 3734mm, 4683mm | 4683mm, 6209mm |
|                      | Repeatability                            | ±0.3mm                               | ±0.5mm         | ±0.3mm         | ±0.5mm         |
|                      | Mass                                     | 8600kg                               | 9600kg         | 11000kg        | 12500kg        |
|                      | Installation                             | Floor                                |                |                |                |
|                      | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet)/30kVA |                |                |                |
| Application          | Handling                                 |                                      |                |                |                |

## Palletizing Robot, Others

| FANUC Robot M-410iC |  | /140H                                | /185   | /315  | /500   | /700           |            |
|---------------------|--|--------------------------------------|--|-------|--|----------------|------------|
|                     | Controlled axes                          | 4                                    |  |       |  |                |            |
|                     | Max.payload at wrist                     | 140kg                                | 185kg  | 315kg | 500kg  | 700kg          |            |
|                     | Motion range(X,Y)                        | 2850mm, 3546mm                       | 3143mm, 2958mm                                     |       |  | 3143mm, 2958mm |            |
|                     | Repeatability                            | ±0.2mm                               | ±0.5mm   |       |  |                |            |
|                     | Mass                                     | 1200kg(*2)                           | Pedestal type 1600kg(*1)<br>No pedestal 1330kg(*2) |       | Pedestal type 2410kg(*1)<br>No pedestal 1910kg(*2) |                | 2700kg(*1) |
|                     | Installation                             | Floor                                |  |       |  |                |            |
|                     | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet)/15kVA |  |       |  |                |            |
| Application         | Handling                                 |                                      |  |       |  |                |            |





\*1:Controller mass(120kg) is included. \*2:Controller mass(120kg) is not included.

| FANUC Robot F-200iB |  |   |  |  |  |
|---------------------|--|---|--|--|--|
|                     | Controlled axes                          | 6   |  |  |  |
|                     | Max.payload at wrist                     | 100kg   |  |  |  |
|                     | Motion range(X,Y)                        | φ500mm, 300mm                                       |  |  |  |
|                     | Repeatability                            | ±0.1mm  |  |  |  |
|                     | Mass                                     | 190kg   |  |  |  |
|                     | Installation                             | Floor, Upside-down                                  |  |  |  |
|                     | Matching controller/Input power capacity | R-30iB controller(A,B-cabinet)/5kVA                 |  |  |  |
| Application         | Handling                                 | ●   |  |  |  |
|                     | Assembling                               | ●   |  |  |  |
|                     | Spot welding                             | ●   |  |  |  |
|                     | Others                                   | Lifter, Locater, Deburring, Inspection, Measurement |  |  |  |

| Top Mount Robot |                      | M-20iA, ARC Mate 120iC         |                |       | M-710iC        |       | R-2000iB       |
|-----------------|----------------------|--------------------------------|----------------|-------|----------------|-------|----------------|
|                 |                      | /20T                           | /20MT          | /35MT | /50T           | /70T  | /200T          |
|                 | Controlled axes      | 6                              |                |       |                |       |                |
|                 | Max.payload at wrist | 3kg(*1), 20kg(*2)              | 20kg           | 35kg  | 50kg           | 70kg  | 200kg          |
|                 | Motion range(X,Y)    | 1662mm, 3217mm                 | 1663mm, 3220mm |       | 1900mm, 3616mm |       | 2208mm, 4031mm |
|                 | Repeatability        | ±0.08mm                        |                |       | ±0.07mm(*3)    |       | ±0.3mm         |
|                 | Mass                 | 185kg                          |                | 187kg | 410kg          |       | 1100kg         |
|                 | Installation         | Floor, Upside-down, Wall       |                |       |                |       |                |
|                 | Matching controller  | R-30iB controller(A,B-cabinet) | ●              |       | ●              |       | ●              |
|                 | controller           | R-30iB Mate controller(std.)   | ●              |       | ●              |       | ●              |
|                 | Input power capacity | 3kVA                           |                | 12kVA |                | 15kVA |                |
|                 | Application          | Handling                       | ●              |       | ●              | ●     | ●              |
|                 | Assembling           | ●                              |                | ●     | ●              | ●     |                |
|                 | Arc welding          | ●                              |                | ●     | ●              | ●     |                |
|                 | Sealing              | ●                              |                | ●     | ●              | ●     |                |
|                 | Spot welding         | ●                              |                | ●     | ●              | ●     |                |

\*1: Standard welding torch mode \*2:High inertia mode \*3:This does not include an influence from a rail transfer unit.

# Controller

|                      | R-30iB Controller   |   | R-30iB Mate Controller   |   |
|----------------------|---|---|--|---|
|                      | A-Cabinet   | B-Cabinet   | Standard Type  | Open Air Type   |
|                      |                  |  |  |  |
| Rated Supply Voltage | AC 200–575V +10% -15%<br>50/60Hz ±1Hz, 3-phase  |   | AC 200–230V +10% -15%<br>50/60Hz ±1Hz, 1-phase/3-phase                             |   |
| Mass of Controller   | 120–140kg   | 180–200kg   | 40kg   | 20kg  |
| Dimensions(W×D×H)    | 600×470×500   | 740×550×1100  | 470×322×400<br>470×402×400 *1  | 370×350×200<br>370×350×356 *1   |
| Protection Class     | IP54  |   | IP20   |   |
| Emergency stop       | Emergency stop function<br>Position/Speed check function  |   | PL=e, Cat4(ISO13849-1) SIL3(IEC61508)<br>PL=d, Cat3(ISO13849-1) SIL2(IEC61508)     |   |
| External Memory      | USB, PCMCIA   |   | USB  |   |
| Fieldbus             | Ethernet, FL-net, DeviceNet, PROFIBUS,<br>PROFINET, CC-Link, CC-Link IE, EtherNet/IP,<br>EtherCAT |   | Ethernet, FL-net, DeviceNet, PROFIBUS,<br>PROFINET, CC-Link, EtherNet/IP, EtherCAT |   |

\*1:Dimension is varied due to robot types

## Safety & Reliability

### Industrial Standards Conformance for Safety and Environment

The FANUC Robot *i* series is manufactured at fully automated and robotized factories under strict quality control, and meets ISO:9001 certifications.

The FANUC Robot *i* series is compliant with the European, American, Korean, etc. safety standards, and has been certified with the CE, NRTL and KC marking (with options for each specification). TÜV marking and TÜV EMC marking are attached when the European specification for the robot is chosen.



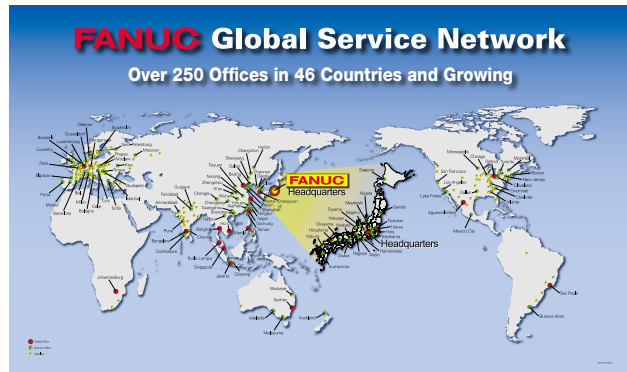
• SAUARY  
• GEPÜFT  
• TYPE  
• APPROVED



## Maintenance & Support

### Worldwide Customer Service

FANUC offers customer service and support anywhere in the world through subsidiaries and affiliates. FANUC prides itself in providing the highest quality service with the quickest response time at the nearest location to you.



### FANUC Training Center

FANUC's training centers offer a variety of intensive robot training courses, from introductory to advanced knowledge and skills for teaching, operation, engineering and maintenance of FANUC robots and their applications. Hands-on training provides your employees with the skills needed to operate and maintain your factory automation.

# FANUC CORPORATION

Headquarters Oshino-mura, Yamanashi 401-0597, Japan  
Phone: 81-555-84-5555 Fax: 81-555-84-5512 <http://www.fanuc.co.jp>

● Overseas Affiliated Companies  
FANUC America Corporation  
FANUC Europe Corporation, S.A.  
SHANGHAI-FANUC Robotics CO., LTD.  
KOREA FANUC CORPORATION  
TAIWAN FANUC CORPORATION  
FANUC INDIA PRIVATE LIMITED  
FANUC SINGAPORE PTE. LTD.  
FANUC THAI LIMITED  
FANUC MECHATRONICS (MALAYSIA) SDN. BHD.  
  
PT. FANUC INDONESIA  
FANUC OCEANIA PTY. LIMITED  
FANUC SOUTH AFRICA (PROPRIETARY) LIMITED

3900 West Hamlin Road, Rochester Hills, MI 48309-3253, U.S.A.  
Zone Industrielle, L-6468 Echternach, Grand-Duché de Luxembourg  
No. 1500 Fulian Road, Baoshan Area, Shanghai, China  
101, Wanam-ro(st), Seongsan-gu, Changwon-si, Gyeongsangnam-do, 642-290 Republic of Korea  
No.10, 16th Road, Taichung Industrial Park, Taichung, Taiwan  
41-A, Electronics City, Bangalore, 560 100, India  
No.1 Teban Gardens Crescent, Singapore 608919, Singapore  
1301 Pattanakarn Road, Kwaeng Suanluang, Khet Suanluang, Bangkok 10250 Thailand  
No.32, Jalan Pengacara U1/48, Temasya Industrial Park, Section U1, Glenmarie, 40150 Shah Alam, Selangor Darul Ehsan, Malaysia  
JL. Boulevard Bukit Gading Raya Blok R, Jakarta 14240 Indonesia  
10 Healey Circuit, Huntingwood, NSW 2148, Australia  
17 Loper Ave. Aeroport Industrial Ests, Spartan Ext.2 P.O.Box 219, Isando 1600, Republic of South Africa

Phone: 1-248-377-7000 Fax: 1-855-774-7051  
Phone: 352-727777-1 Fax: 352-727777-403  
Phone: 86-21-5032-7700 Fax: 86-21-5032-7711  
Phone: 82-55-278-1200 Fax: 82-55-284-9826  
Phone: 886-4-2359-0522 Fax: 886-4-2359-0771  
Phone: 91-80-2852-0057 Fax: 91-80-2852-0051  
Phone: 65-6567-8566 Fax: 65-6566-5937  
Phone: 66-2-714-6111 Fax: 66-2-714-6120  
  
Phone: 60-3-7628-0110 Fax: 60-3-7628-0220  
Phone: 62-21-4584-7285 Fax: 62-21-4584-7288  
Phone: 61-2-8822-4600 Fax: 61-2-8822-4666  
Phone: 27-11-392-3610 Fax: 27-11-392-3615

- All specifications are subject to change without notice.
- No part of this catalog may be reproduced in any form.
- The products in this catalog are controlled based on Japan's "Foreign Exchange and Foreign Trade Law". The export from Japan may be subject to an export license by the government of Japan. Further, re-export to another country may be subject to the license of the government of the country from where the product is re-exported. Furthermore, the product may also be controlled by re-export regulations of the United States government. Should you wish to export or re-export these products, please contact FANUC for advice.