



Robot *i* series

ROBOT

Cost Savings through Intelligent Robotization for the 21st 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



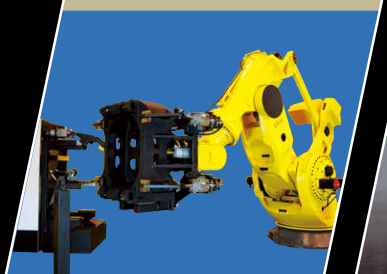
Spot Welding



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.

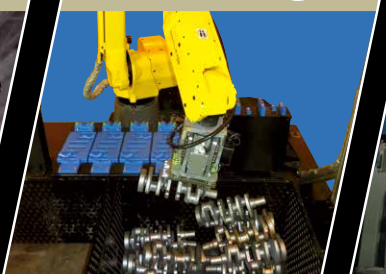
Load/unload



Arc Welding



Bin Picking



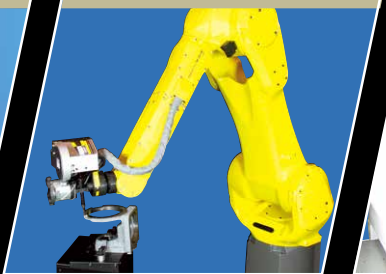
Logistics/Warehouse



Assembly



Deburring



Pharmaceuticals



Food Packing



Error Proofing



Laser Welding



Washing



Painting



FANUC Robot *i* series



Collaborative Robot

| FANUC Robot CR-4iA, 7iA, 14iA | | 4iA | 7iA | 7iA/L | 14iA/L |
|--|---|----------------|---------------|---------------|--|
| | Controlled axes | 6 | | | |
| | Max.payload at wrist | 4kg | 7kg | | 14kg |
| | Motion range(X,Y) | 550mm, 818mm | 717mm, 1061mm | 911mm, 1359mm | 911mm (load capacity<12kg), 1359mm 820mm (load capacity≥12kg), 1359mm |
| | Repeatability | ±0.01mm | | | |
| | Mass | 48kg | 53kg | 55kg | |
| Installation | Floor, Upside-down, Angle | | | | |
| Matching controller/Input power capacity | R-30iB Mate/R-30iB Mate Plus(standard, open air)/1.2kVA | | | | R-30iB Mate Plus(standard)/1.2kVA |
| Application | Handling, Assembling | | | | |
| FANUC Robot CR-15iA | | | | | |
| | Controlled axes | 6 | | | |
| | Max.payload at wrist | 15kg | | | |
| | Motion range(X,Y) | 1441mm, 2413mm | | | |
| | Repeatability | ±0.02mm | | | |
| | Mass | 255kg | | | |
| Installation | Floor, Upside-down, Angle | | | | |
| Matching controller/Input power capacity | R-30iB Plus (A-cabinet), R-30iB Mate Plus (standard)/2kVA | | | | |
| Application | Handling, Assembling | | | | |
| FANUC Robot CR-35iA | | | | | |
| | Controlled axes | 6 | | | |
| | Max.payload at wrist | 35kg | | | |
| | Motion range(X,Y) | 1813mm, 2931mm | | | |
| | Repeatability | ±0.03mm | | | |
| | Mass | 990kg | | | |
| Installation | Floor | | | | |
| Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-cabinet)/3kVA | | | | |
| Application | Handling, Assembling | | | | |

Mini Robot, SCARA Robot, Delta Robot

| FANUC Robot LR Mate 200iD | | 200iD | /7L | | /4S | | |
|--|---|-------------------|-------------------------------|---------|---------------|-------------------|--------------|
| FANUC Robot ARC Mate 50iD | | 50iD | | | | | |
| | Controlled axes | 6 | | | | | |
| | Max.payload at wrist | 7kg | | 4kg | | | |
| | Motion range(X,Y) | 717mm, 1274mm | 911mm, 1643mm | | 550mm, 970mm | | |
| | Repeatability | ±0.01mm | | | | | |
| | Mass | 25kg | 27kg | | 20kg | | |
| Installation | Floor, Upside-down, Angle | | | | | | |
| Matching controller/Input power capacity | R-30iB Mate(standard, open air)/R-30iB Mate Plus(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 | | | | | |
| | Max.payload at wrist | 7kg | | 4kg | | 4kg | |
| | Motion range(X,Y) | 717mm, 1274mm | 911mm, 1643mm | | 550mm, 970mm | 717mm, 1274mm | 550mm, 970mm |
| | Repeatability | ±0.01mm | | | | | |
| | Mass | 25kg | | 27kg | | 20kg | 24kg |
| Installation | Floor, Upside-down, Angle | | | | | | |
| Matching controller/Input power capacity | R-30iB Mate(standard, open air)/R-30iB Mate Plus(standard, open air)/1.2kVA | | | | | | |
| Application | Handling | ● | ● | ● | ● | ● | ● |
| | Assembling | ● | ● | ● | ● | ● | ● |
| | Washing | ● | | | | | |
| | Clean room | ● | | ● | ● | | |
| FANUC Robot SR-3iA,6iA | | SR-3iA | | | SR-6iA | | |
| | Controlled axes | 4 | | | | | |
| | Max.payload at wrist | 3kg | | | 6kg | | |
| | Motion range(X,Y) | 400mm, 800mm | | | 650mm, 1300mm | | |
| | Stroke(Z) | 200mm | | | 210mm | | |
| | Repeatability | J1+J2 axis | ±0.01mm | | | | |
| | J3 stroke | ±0.01mm | | | | | |
| | J4 axis | ±0.004' | | | | | |
| Mass | 19kg | | | 30kg | | | |
| Installation | Floor, Wall | | | | | | |
| Matching controller/Input power capacity | R-30iB Compact Plus/2kVA | | | | | | |
| Application | Handling | ● | ● | ● | ● | ● | ● |
| | Assembling | ● | ● | ● | ● | ● | ● |
| FANUC Robot M-1iA | | /0.5A | /0.5S | /1H | /0.5AL | /0.5SL | /1HL |
| | Controlled axes | 6 | | | | | |
| | Max.payload at wrist | 0.5kg(option:1kg) | | 1kg | | 0.5kg(option:1kg) | |
| | Motion range(X,Y) | φ280mm, 100mm | | ±0.02mm | | φ420mm, 150mm | |
| | Repeatability | ±0.02mm | | | | | |
| | Mass(without stand) | 17kg | 14kg | 12kg | 20kg | 17kg | 15kg |
| Installation | Floor, Ceiling, Angle | | | | | | |
| Matching controller/Input power capacity | R-30iB Mate(Standard, open air)/R-30iB Mate Plus(Standard, open air)/1kVA | | | | | | |
| Application | Handling | ● | ● | ● | ● | ● | ● |
| | Assembling | ● | ● | ● | ● | ● | ● |



Mini Robot, SCARA Robot, Delta Robot

| FANUC Robot M-2iA | | /3A | /3S | /6H | /3AL | /3SL | /6HL |
|-------------------|--|---|---------------|---------|-------|----------------|-------|
| | Controlled axes | 6 | 4 | 3 | 6 | 4 | 3 |
| | Max.payload at wrist | | 3kg | 6kg | | 3kg | 6kg |
| | Motion range(X,Y) | | φ800mm, 300mm | | | φ1130mm, 400mm | |
| | Repeatability | | | ±0.03mm | | | |
| | Mass | 140kg | 130kg | 125kg | 140kg | 130kg | 125kg |
| | Installation | | | Ceiling | | | |
| | Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-cabinet), R-30iB Mate(standard, open air)/R-30iB Mate Plus(standard, open air)/12kVA | | | | | |
| | Application | ● | ● | ● | ● | ● | ● |
| | | ● | ● | ● | ● | ● | ● |

| 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 | | ±0.03mm | |
| | Mass | 175kg | 160kg | 155kg |
| | Installation | | Ceiling | |
| | Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-cabinet), R-30iB Mate(standard, open air)/R-30iB Mate Plus(standard, open air)/12kVA | | |
| | Application | ● | ● | ● |
| | | ● | ● | ● |

| FANUC Robot DR-3iB | | /8L |
|--------------------|--|--|
| | Controlled axes | 4 |
| | Max.payload at wrist | 8kg |
| | Motion range(X,Y) | φ1600mm, 500mm |
| | Repeatability | ±0.03mm |
| | Mass | 170kg |
| | Installation | Ceiling |
| | Matching controller/Input power capacity | R-30iB Plus(A-cabinet), R-30iB Mate Plus(standard, open air)/12kVA |
| | Application | ● |
| | | ● |

Arc Welding Robot, Small/Medium Size Robot

| FANUC Robot ARC Mate 100iD FANUC Robot M-10iD | | ARC Mate 100iD M-10iD/12 | /10L | /8L |
|--|--|---|---------------------------|------------------------------|
| | Controlled axes | | 6 | |
| | Max.payload at wrist | 12kg | 10kg | 8kg |
| | Motion range(X,Y) | 1441mm, 2616mm | 1636mm, 3006mm | 2032mm, 3762mm |
| | Repeatability | ±0.02mm | ±0.03mm | |
| | Mass | 145kg | 150kg | 180kg |
| | Installation | | Floor, Upside-down, Angle | * Floor, Upside-down for 4BK |
| | Matching controller/Input power capacity | R-30iB Plus(A-, B-cabinet), R-30iB Mate Plus(standard)/2kVA | | |
| | Application | ● | ● | ● |
| | | ● | ● | ● |
| | | ● | ● | ● |
| | | ● | ● | ● |
| | | | ● | ● |

| FANUC Robot ARC Mate 100iC FANUC Robot M-10iA | | /12S | /12 | /7L | /8L | /10MS | /10M |
|--|--|--|-----|---------------------------|----------------|---------------------------------|------|
| | 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 | ±0.03mm | | ±0.03mm | ±0.035mm | ±0.03mm | |
| | Mass | 130kg | | 135kg | 150kg | 130kg | |
| | Installation | | | Floor, Upside-down, Angle | | | |
| | Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-, B-cabinet), R-30iB Mate/R-30iB Mate Plus(standard)/2kVA | | | | | |
| | Application | ● | ● | ● | ● | ● | ● |
| | | ● | ● | ● | ● | ● | ● |
| | | ● | ● | ● | ● | ● | ● |
| | | | | ● | ● | ● | ● |

| FANUC Robot ARC Mate 120iD FANUC Robot M-20iD | | ARC Mate 120iD M-20iD/25 |
|--|--|---|
| | Controlled axes | 6 |
| | Max.payload at wrist | 25kg |
| | Motion range(X,Y) | 1831mm, 3461mm |
| | Repeatability | ±0.02mm |
| | Mass | 250kg |
| | Installation | Floor, Upside-down, Angle |
| | Matching controller/Input power capacity | R-30iB Plus(A-, B-cabinet), R-30iB Mate Plus(standard)/3kVA |
| | Application | ● |
| | | ● |
| | | ● |
| | | ● |
| | | ● |

| FANUC Robot ARC Mate 120iC FANUC Robot M-20iA | | ARC Mate 120iC M-20iA | /12L | /20M | /35M |
|--|--|--|---------------------------|----------------|-------|
| | Controlled axes | | 6 | | |
| | Max.payload at wrist | 20kg | 12kg | 20kg | 35kg |
| | Motion range(X,Y) | 1811mm, 3275mm | 2009mm, 3672mm | 1813mm, 3278mm | |
| | Repeatability | | ±0.03mm | | |
| | Mass | | 250kg | | 252kg |
| | Installation | | Floor, Upside-down, Angle | | |
| | Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-, B-cabinet), R-30iB Mate/R-30iB Mate Plus(standard)/3kVA | | | |
| | Application | ● | ● | ● | ● |
| | | ● | ● | ● | ● |
| | | ● | ● | ● | ● |
| | | | ● | ● | ● |



M-710iC/50

M-710iC/20L

R-1000iA/80F

R-2000iB/170CF

R-2000iC/210F

R-2000iC/165R

R-2000iC/270F

Arc Welding Robot, Small/Medium Size Robot

| FANUC Robot M-20iB | | M-20iB/25 | M-20iB/25C | M-20iB/35S |
|--------------------|--|--|---------------------------|---|
| | Controlled axes | | 6 | |
| | Max.payload at wrist | | 25kg | 35kg |
| | Motion range(X,Y) | 1853mm, 3345mm | | 1445mm, 2591mm |
| | Repeatability | | ±0.02mm | |
| | Mass | | 210kg | 205kg |
| | Installation | | Floor, Upside-down, Angle | |
| | Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-, B-cabinet), R-30iB Mate/R-30iB Mate Plus(standard)/3kVA | | R-30iB Plus(A-, B-cabinet), R-30iB Mate Plus(standard)/3kVA |
| Application | Handling | ● | ● | ● |
| | Assembling | ● | ● | ● |
| | Arc welding | ● | ● | ● |
| | Sealing | ● | ● | ● |
| | Clean room | ● | ● | ● |
| | Others | Mold handling, Deburring | | Mold handling, Deburring |

| FANUC Robot M-710iC | | /45M | /50 | /70 | /12L | /20L | /20M | /50S | /50H |
|---------------------|--|--|----------------|----------------|----------------|----------------|----------------|----------------|------|
| | Controlled axes | | | | 6 | | | | 5 |
| | Max.payload at wrist | 45kg | 50kg | 70kg | 12kg | 20kg | 20kg | 50kg | 50kg |
| | Motion range(X,Y) | 2606mm, 4575mm | 2050mm, 3545mm | 3123mm, 5609mm | 3110mm, 5563mm | 2582mm, 4609mm | 1359mm, 2043mm | 2003mm, 3451mm | |
| | Repeatability | ±0.06mm | ±0.03mm | ±0.04mm | ±0.06mm | | | ±0.03mm | |
| | Mass | 570kg | 560kg | | 540kg | 530kg | 545kg | 540kg | |
| | Installation | Floor, Upside-down, Angle | | | | | | | |
| | Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-, B-cabinet), R-30iB Mate/R-30iB Mate Plus(standard)/12kVA* | | | | | | | |
| Application | Handling | ● | ● | ● | ● | ● | ● | ● | ● |
| | Assembling | ● | ● | ● | ● | ● | ● | ● | ● |
| | Arc welding | ● | ● | ● | ● | ● | ● | ● | ● |
| | Sealing | ● | ● | ● | ● | ● | ● | ● | ● |
| | Spot welding | ● | ● | ● | ● | ● | ● | ● | ● |
| | Others | Mold handling, Deburring, Laser cutting | | | | | | | |

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

Medium Size Robot

| FANUC Robot R-1000iA | | /80F | /100F | /130F | /120F-7B | /80H |
|----------------------|----------------------|---|-------|---------|----------------|----------------|
| | Controlled axes | | 6 | | 7 | 5 |
| | Max.payload at wrist | 80kg | 100kg | 130kg | 120kg | 80kg |
| | Motion range(X,Y) | 2230mm, 3738mm | | | 2230mm, 3779mm | 2230mm, 3465mm |
| | Repeatability | | | ±0.03mm | | |
| | Mass | 620kg | 665kg | 675kg | 790kg | 610kg |
| | Installation | Floor, Upside-down | | | | |
| | Matching controller | R-30iB/R-30iB Plus(A-, B-cabinet), R-30iB Mate/R-30iB Mate Plus(standard) | | | | |
| | Input power capacity | 12kVA | | 15kVA | | 12kVA |
| Application | Handling | ● | ● | ● | ● | ● |
| | Assembling | ● | ● | ● | ● | ● |
| | Sealing | ● | ● | ● | ● | ● |
| | Spot welding | ● | ● | ● | ● | ● |
| | Others | | | | | |

Large Size Robot

| FANUC Robot R-2000iC | | /165F | /210F | /125L | /270F | /210L |
|----------------------|----------------------|---|-------|-----------------------------------|----------------|----------------|
| | Controlled axes | | | 6 | | |
| | Max.payload at wrist | 165kg | 210kg | 125kg | 270kg | 210kg |
| | Motion range(X,Y) | 2655mm, 3414mm | | 3100mm, 4304mm | 2655mm, 3414mm | 3100mm, 4304mm |
| | Repeatability | | | ±0.05mm | | |
| | Mass | 1090kg | | 1115kg | 1320kg | 1350kg |
| | Installation | Floor | | | | |
| | Matching controller | R-30iB/R-30iB Plus(A-, B-cabinet), R-30iB Mate/R-30iB Mate Plus(standard) | | R-30iB/R-30iB Plus(A-, B-cabinet) | | |
| | Input power capacity | 12kVA | | 15kVA | | |
| Application | Handling | ● | ● | ● | ● | ● |
| | Assembling | ● | ● | ● | ● | ● |
| | Sealing | ● | ● | ● | ● | ● |
| | Spot welding | ● | ● | ● | ● | ● |
| | Others | Mold handling, Prss to press handling, Deburring | | | | |

| FANUC Robot R-2000iC | | /165R | /210R | /100P | /220U | /190U |
|----------------------|--|---|-------|-----------------------------------|----------------|----------------|
| | Controlled axes | | | 6 | | |
| | Max.payload at wrist | 165kg | 210kg | 100kg | 220kg | 190kg |
| | Motion range(X,Y) | 3095mm, 4733mm | | 3540mm, 5623mm | 2518mm, 3414mm | 3100mm, 4304mm |
| | Repeatability | | | ±0.05mm | | |
| | Mass | 1370kg | | 1470kg | 1020kg | 1400kg |
| | Installation | Rack | | Upside-down | | |
| | Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-, B-cabinet), R-30iB Mate/R-30iB Mate Plus(standard) | | R-30iB/R-30iB Plus(A-, B-cabinet) | | |
| | Input power capacity | 12kVA | | 15kVA | | |
| Application | Handling | ● | ● | ● | ● | ● |
| | Assembling | ● | ● | ● | ● | ● |
| | Sealing | ● | ● | ● | ● | ● |
| | Spot welding | ● | ● | ● | ● | ● |
| | Others | Mold handling, Prss to press handling, Deburring | | | | |



M-900iB/360 M-900iB/700 M-2000iA/2300 M-2000iA/1700L M-410iC/185 F-200iB P-40iA P-350iA/45 P-250iB/15

Large Size Robot

| | | | | | | | | | |
|---|-----------------------------------|----------------|-------|--------------------|-----------------------|----------------|-------|----------------|--|
| FANUC Robot R-2000iC | | /210WE | | | | | | | |
| FANUC Robot R-2000iB | | | | /170CF | | /210FS | | /220US | |
| | Controlled axes | 6 | | | | | | | |
| | Max.payload at wrist | 210kg | | 170kg | | 210kg | | 220kg | |
| | Motion range(X,Y) | 2450mm, 3415mm | | 1520mm, 2279mm | | 2605mm, 3316mm | | 2443mm, 3316mm | |
| | Repeatability | ±0.10mm | | ±0.15mm | | ±0.3mm | | | |
| | Mass | 1180kg | | 800kg | | 1250kg | | 1160kg | |
| | Installation | Floor | | Floor, Upside-down | | Floor | | Upside-down | |
| Matching controller | R-30iB/R-30iB Plus(A-, B-cabinet) | | | | R-30iB(A-, B-cabinet) | | | | |
| Input power capacity | 15kVA | | 12kVA | | 15kVA | | 15kVA | | |
| Application | Handling | ● | | | | | | | |
| | Assembling | ● | | | | | | | |
| | Sealing | ● | | | | | | | |
| | Spot welding | ● | | | | | | | |
| | Washing | ● | | | | | | | |
| | Others | ● | | | | | | | |
| Mold handling, Prsss to press handling, Deburring | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|----------------------------|---|---------------------------|-------|----------------|-------|----------------|---------------------------------------|----------------|-------|----------------|--|----------------|---------------------------|----------------|--|--|
| FANUC Robot M-900iB | | /360 | | /280L | | /280 | | /150P | | /700 | | /400L | | /200P | | |
| FANUC Robot M-900iA | | | | | | | | | | | | | | | | |
| | 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 | ±0.1mm | | ±0.3mm | | ±0.3mm | | ±0.1mm | | ±0.1mm | | ±0.3mm | | ±0.3mm | | |
| | Mass | 1540kg | | 1600kg | | 1700kg | | 1860kg | | 2800kg | | 3150kg | | 2670kg | | |
| | Installation | Floor, Upside-down, Angle | | Rack | | Rack | | Floor | | Floor | | Rack | | Rack | | |
| Matching controller | M-900iB:R-30iB/R-30iB Plus(A-, B-cabinet) | | | | | | M-900iB:R-30iB/R-30iB Plus(B-cabinet) | | | | | | M-900iA:R-30iB(B-cabinet) | | | |
| Input power capacity | 15kVA | | 15kVA | | 15kVA | | 18kVA | | 30kVA | | | | | | | |
| Application | Handling | ● | | ● | | ● | | ● | | ● | | ● | | ● | | |
| | Assembling | ● | | ● | | ● | | ● | | ● | | ● | | ● | | |
| | Sealing | ● | | ● | | ● | | ● | | ● | | ● | | ● | | |
| | Spot welding | ● | | ● | | ● | | ● | | ● | | ● | | ● | | |
| | Press to press handling | ● | | ● | | ● | | ● | | ● | | ● | | ● | | |
| | Mold handling, Prsss to press handling, Deburring | | | | | | | | | | | | | | | |

| | | | | | | | | | |
|--|---|-----------------------|--|----------------|---|----------------|--|----------------|--|
| 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 | ±0.18mm | | ±0.27mm | | ±0.27mm | | ±0.27mm | |
| | Mass | 8600kg | | 9600kg | | 11000kg | | 12500kg | |
| | Installation | Floor | | Floor | | Floor | | Floor | |
| Matching controller/Input power capacity | R-30iB/R-30iB Plus(A-, B-cabinet)/30kVA | | | | R-30iB/R-30iB Plus(A-, B-cabinet)/30kVA | | | | |
| Application | Handling | | | | | | | | |

Palletizing Robot, Others

| | | | | | | | | | | | | | |
|--|----------------------------------|----------------|----------------------------------|----------------|---|--|---|--|---|----------------|---|----------------|--|
| FANUC Robot M-410iC | | /110 | | /140H | | /185 | | /315 | | /500 | | /700 | |
| FANUC Robot M-410iB | | | | | | | | | | | | | |
| | Controlled axes | 4 | | 5 | | 4 | | 4 | | 4 | | 4 | |
| | Max.payload at wrist | 110kg | | 140kg | | 185kg | | 315kg | | 500kg | | 700kg | |
| | Motion range(X,Y) | 2403mm, 2238mm | | 2850mm, 3546mm | | 3143mm, 2958mm | | 3143mm, 2958mm | | 3143mm, 2958mm | | 3143mm, 2958mm | |
| | Repeatability | ±0.05mm | | ±0.05mm | | ±0.05mm | | ±0.05mm | | ±0.05mm | | ±0.05mm | |
| | Mass | 1030kg | | 1200kg | | Pedestal type 1600kg(*1) No pedestal 1330kg(*2) | | Pedestal type 2410kg(*1) No pedestal 1910kg(*2) | | 2700kg(*1) | | 2700kg(*1) | |
| | Installation | Floor | | Floor | | Floor | | Floor | | Floor | | Floor | |
| Matching controller/Input power capacity | R-30iB Plus(A-, B-cabinet)/15kVA | | R-30iB Plus(A-, B-cabinet)/15kVA | | R-30iB/R-30iB Plus(A-, B-cabinet)/15kVA | | R-30iB/R-30iB Plus(A-, B-cabinet)/15kVA | | R-30iB/R-30iB Plus(A-, B-cabinet)/15kVA | | R-30iB/R-30iB Plus(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(A-, B-cabinet)/5kVA | | | | | | | | | | | |
| Application | Handling | ● | | | | | | | | | | |
| | Assembling | ● | | | | | | | | | | |
| | Spot welding | ● | | | | | | | | | | |
| | Others | ● | | | | | | | | | | |
| | Lifter, Locater, Deburring, Inspection, Measurement | | | | | | | | | | | |

Paint Robot

| | | | | | | | | | | | | | | | |
|--|---------------------------|---------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------------|--|--|--|
| FANUC Robot P-40iA | | /110 | | /140H | | /185 | | /315 | | /500 | | /700 | | | |
| FANUC Robot P-350iA/45 | | | | | | | | | | | | | | | |
| FANUC Robot P-250iB/15 | | | | | | | | | | | | | | | |
| | Controlled axes | 6 | | | | | | | | | | | | | |
| | Max.payload at wrist | 5kg | | 45kg | | 15kg | | 15kg | | 15kg | | 15kg | | | |
| | Motion range(X,Y) | 1300mm, 2308mm | | 2606mm, 4575mm | | 2800mm, 5272mm | | 2800mm, 5272mm | | 2800mm, 5272mm | | 2800mm, 5272mm | | | |
| | Repeatability | ±0.2mm | | ±0.06mm | | ±0.2mm | | ±0.2mm | | ±0.2mm | | ±0.2mm | | | |
| | Mass | 110kg | | 570kg | | 530kg | | 530kg | | 530kg | | 530kg | | | |
| | Installation | Floor, Upside-down, Wall, Rack, Angle | | Floor, Upside-down, Wall, Rack, Angle | | Floor, Upside-down, Wall, Rack, Angle | | Floor, Upside-down, Wall, Rack, Angle | | Floor, Upside-down, Wall, Rack, Angle | | Floor, Upside-down, Wall, Rack, Angle | | | |
| Matching controller/Input power capacity | R-30iB Mate Plus / 1.5kVA | | R-30iB Plus (A-cabinet) / 12kVA | | R-30iB Plus (A-cabinet) / 12kVA | | R-30iB Plus (A-cabinet) / 12kVA | | R-30iB Plus (A-cabinet) / 12kVA | | R-30iB Plus (A-cabinet) / 12kVA | | | | |
| Application | 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.

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

Robot iHMI

The robot iHMI provides a graphical and intuitive interface allowing operators at all levels to easily set up and operate a robot, and check its status.



Collaborative Robot

The green collaborative robot immediately and safely stops when it comes in contact with a human operator, allowing for safe operation in the same workspace without safety fences. This provides production efficiency and cost savings on labor at your factory. Additionally, lead through operation and teaching are available through the Hand Guidance feature.



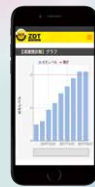
iRVision - Integrated Robot Vision

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 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".

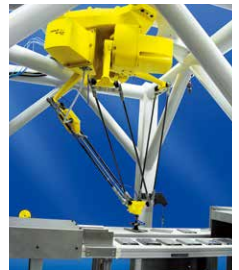


Easy to Repair

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

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

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.








ROBOGUIDE

ROBOGUIDE is a powerful PC simulation software providing system layout, programming and accurate simulation tools for design and evaluation of various robot systems.



Controller

| | R-30iB/R-30iB Plus Controller | | R-30iB Mate/R-30iB Mate Plus Controller | | R-30iB Compact Plus Controller |
|---|--|---|---|---|---|
| | A-Cabinet | B-Cabinet | Standard Type | Open Air Type | |
| |  |  |  |  |  |
| Rated Supply Voltage | AC 200-575V +10% -15% 50/60Hz ±1Hz, 3-phase | | AC 200-230V +10% -15% 50/60Hz ±1Hz, 1-phase/3-phase | | AC 200-240V +10% -15% 50/60Hz ±1Hz, 1-phase |
| Mass of Controller | 120-140kg | 180-200kg | 40kg | 20kg | 9kg |
| Dimensions (WxDxH) | 600x470x500 | 740x550x1100 | 470x322x400 470x402x400 *1 | 370x350x200 370x350x356 *1 | 440x260x85.5 |
| Overvoltage Category / Pollution degree | Overvoltage Category III, Pollution Degree 3, IEC60664-1, IEC/UL61010-1 | | | Overvoltage Category II, Pollution Degree 2, *3 IEC60664-1, IEC/UL61010-1 | Overvoltage Category II, III, *4 Pollution Degree 2, *3 IEC60664-1, IEC/UL61010-1 |
| Protection Class | IP54 | | | IP20 | |
| Emergency stop | Emergency stop function Position/Speed check function | | PL=e, Cat4 (ISO13849-1) PL=d, Cat3 (ISO13849-1) | SIL3 (IEC61508) SIL2 (IEC61508) | |
| External Memory | USB, PCMCIA | | USB | | |
| Fieldbus | Ethernet, FL-net, DeviceNet, PROFIBUS, PROFINET, CC-Link, CC-Link IE, EtherNet/ IP, EtherCAT | | Ethernet, FL-net, DeviceNet, PROFIBUS, PROFINET, CC-Link, EtherNet/IP, EtherCAT Open Air Type also supports CC-Link IE. | | Ethernet, FL-net, DeviceNet, PROFIBUS, PROFINET, CC- Link, EtherNet/IP, EtherCAT |

*1: Dimension is varied due to robot types

*2: Some Robot types do not correspond to R-30iB Plus or R-30iB Mate Plus.

*3: This controller is an open air type, and should be installed in a "Pollution degree 2" environment regulated by IEC 60664-1, IEC/UL61010-1.
"Pollution degree 2" means a clean, office-like environment.

*4: Overvoltage Category II per IEC 60664-1.

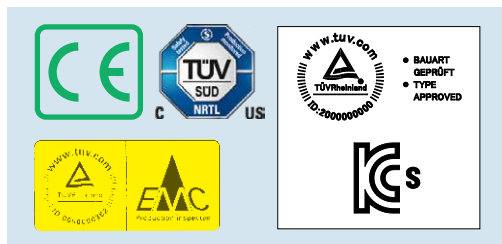
Overvoltage Category III per IEC/UL 61010-1.

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.

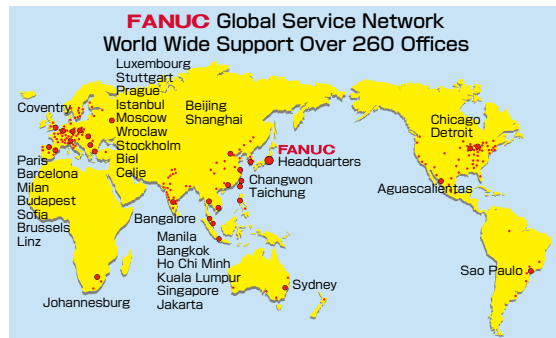
The FANUC Robot *i* series is compliant with the European, American, Korean, etc. safety standards, and has been certified with the CE, NRTL and KCs marking (with options for each specification). TÜV marking and TÜV EMC marking are attached when the European specification for the robot is chosen.



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 ACADEMY

FANUC ACADEMY 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.

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