

Multi-purpose Intelligent Robot

FANUC Robot R-2000iB series



FEATURES

The FANUC robot R-2000iB is the intelligent robot for versatile applications with the up to date expertise at FANUC in last quarter century. The highly reliable robot with intelligence and network collaboration provides the best cost performance and prompts ease of use applications with integrated versatile process solutions such as spot welding, handling, assembling and so on.

Simple and Compact Mechanical Unit

R-2000iB provides the ultimate slim and compact body with the simplified vertical articulated arm, while maintaining the largest motion area and the heaviest payload in the class.

- Compact wrist unit
- Minimum interference at rear side
- Dense installation of multi robots

Intelligence and Networking

Newly developed robot controller R-30iA by enhanced CPU performance includes the latest software function, provides the most up to date intelligent and networking features.

- Higher motion performance
- Integrated vision
- Bin-picking function
- Diagnostics function

Application system



Handling of scattered workpieces

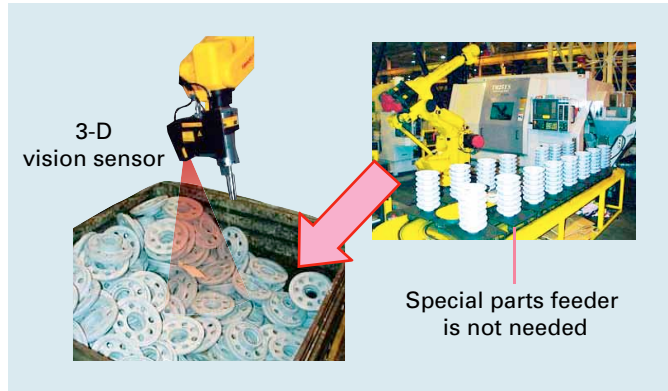


Spot welding by synchronized 2 robots

Intelligence

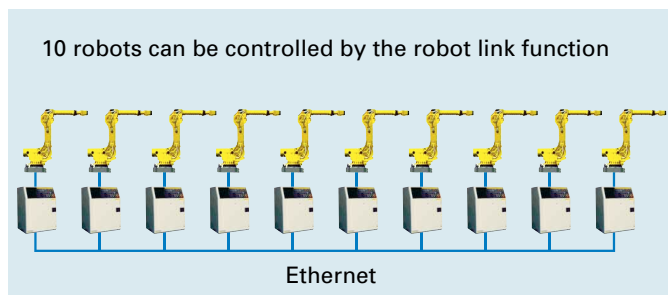
3-D Vision Sensor / Bin-Picking

Robot can handle workpieces randomly piled by using 3-D vision sensor. An automatic system can be constructed at low cost.



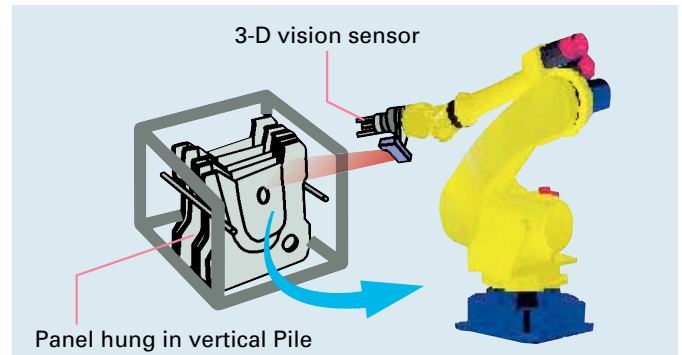
Multi-robot Control

R-30iA can control max 40 axes including 4 robots. Using Robot Link function, up to 10 robots can be controlled simultaneously.



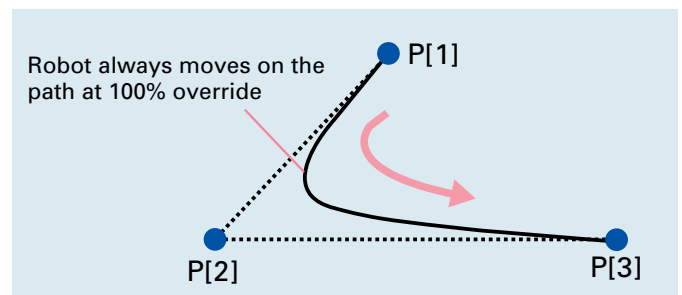
3-D Vision Sensor / Sheet Metal Picking

Sheet metal picking was only available by manual operation, but 3-D vision sensor becomes available to feed the panel by robot.



Constant Path Functions

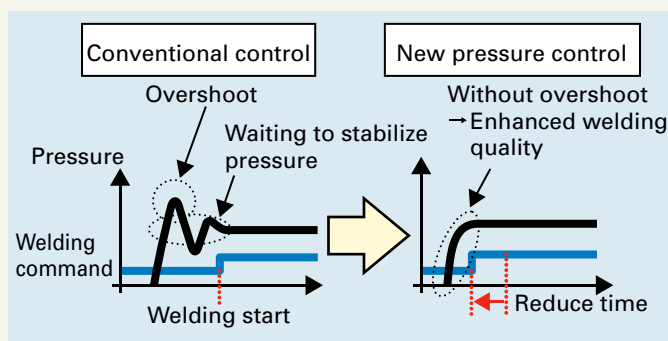
Constant path function keeps the robot path constant even when the override value is changed. Constant path function becomes teaching easy and safe and reduces the program teaching time greatly.



Optimal Solutions for Spot Welding

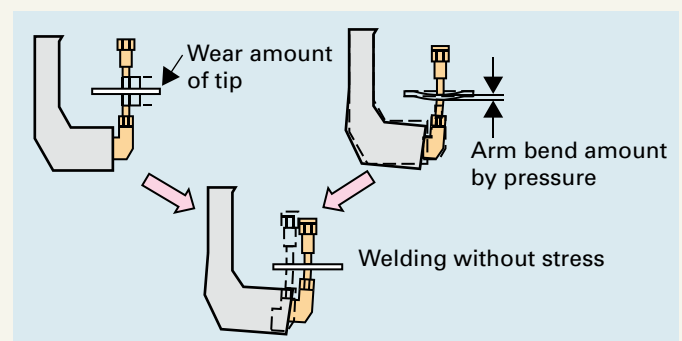
New Pressure Control

Stable pressure control with no overshoot enhances welding quality and reduce cycle time.



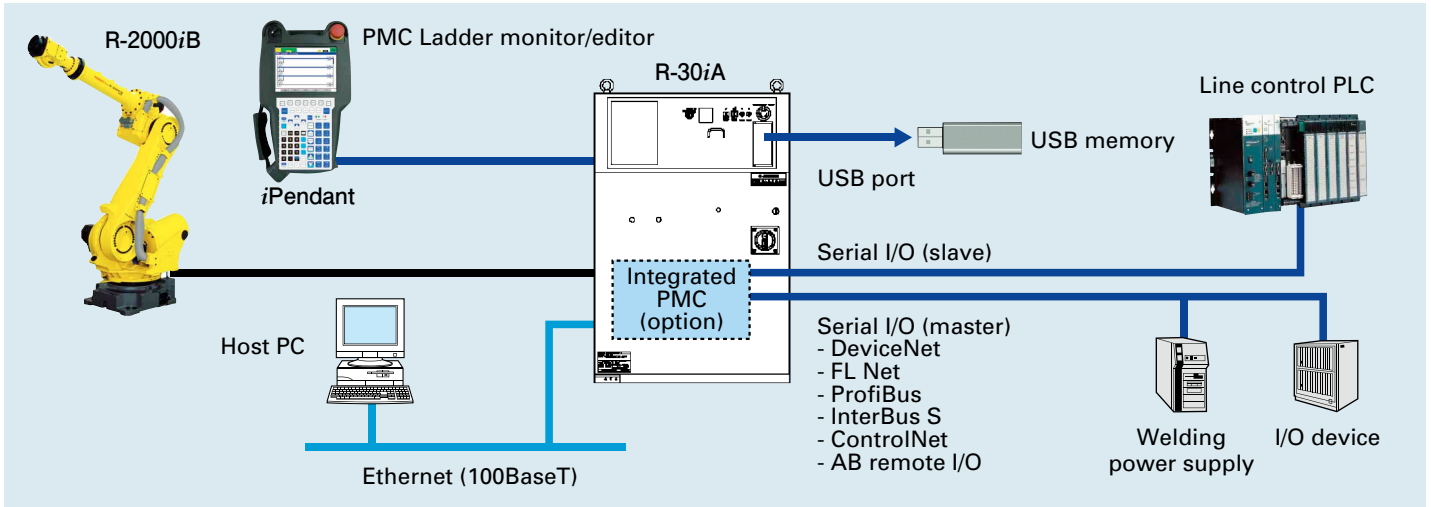
Compensation of Tip Wear / Gun Arm Bend

Automatic compensation of tip wear and arm bend provides stress free welding.



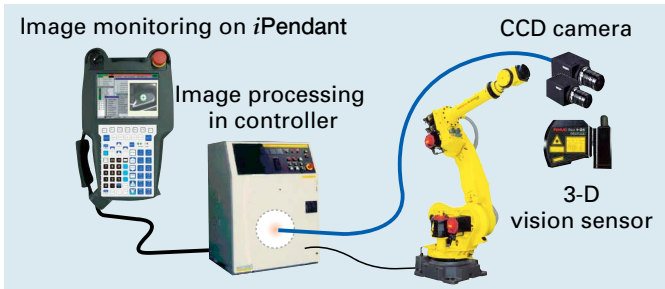
Networking

Versatile network and communication enable to supervise and control multi-robots and peripherals for production. PMC ladder monitor and editor is available on *iPendant*.



Integrated Vision

Integrated hardware without PC provides high reliability. Tight integration between vision and robot functions is realized.



ROBOGUIDE

ROBOGUIDE provides offline programming / teaching / editing, verification of operation with animation, and accurate cycle time simulation promptly in virtual environment.



Spot Point Touchup Function / Spot Program Touchup Function

Automatic touchup in direction of gun axis for welding points. It reduces teaching time and provides consistence of accuracy regardless of operator's skill.

Push key, then automatic teaching

Search

Teaching done automatically

This function can be executed not only by teaching pendant but also by execution of welding program.

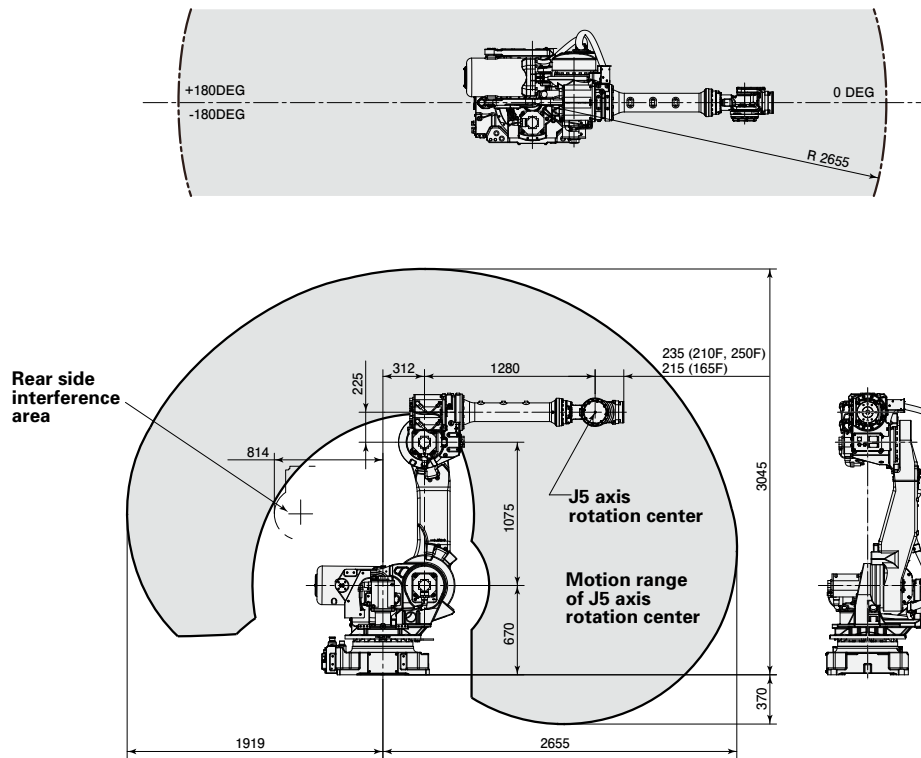
Cable Integrated Arm

As the cables and hoses are all routed in the arm, interference checking by offline simulation can be precisely done - reducing start-up and programming time.

The welding cables and hoses are all integrated in the arm and the wrist.

R-2000iB/165EW, 200EW

Operation Space (R-2000iB/165F, 210F, 250F)



Specification

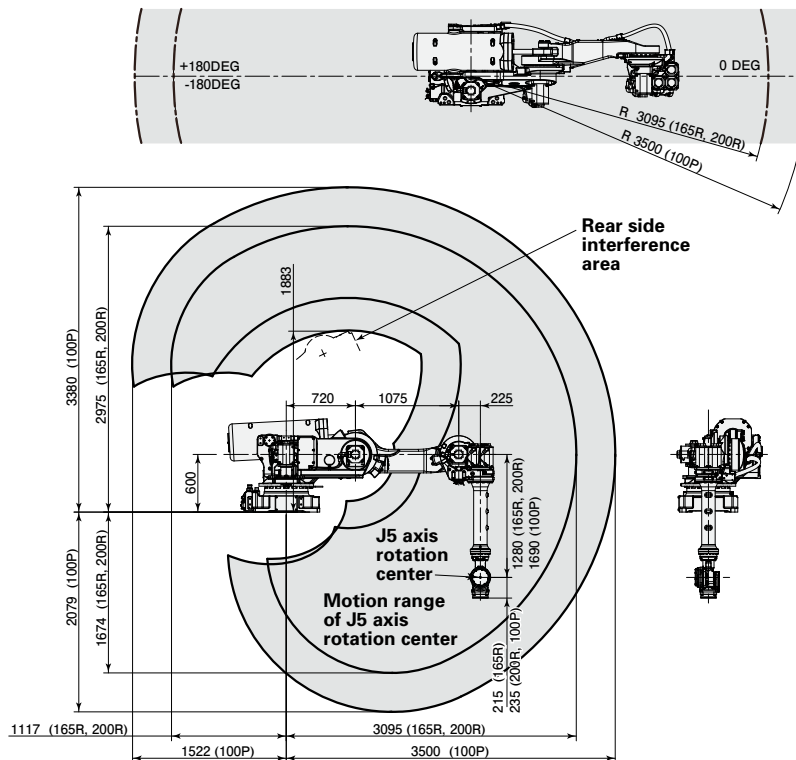
Item	Specifications			
	R-2000iB/165F	R-2000iB/210F	R-2000iB/250F	
Type	Articulated type			
Controlled axes	6 axes (J1, J2, J3, J4, J5, J6)			
Reach	2.66 m	2.66 m	2.66 m	
Installation	Floor mount			
Motion range (Maximum speed) Note 1)	J1 axis rotation	360° (110°/sec) 6.28 rad (1.92 rad/sec)	360° (95°/sec) 6.28 rad (1.66 rad/sec)	360° (95°/sec) 6.28 rad (1.66 rad/sec)
	J2 axis rotation	136° (110°/sec) 2.37 rad (1.92 rad/sec)	136° (90°/sec) 2.37 rad (1.57 rad/sec)	136° (85°/sec) 2.37 rad (1.48 rad/sec)
	J3 axis rotation	362° (110°/sec) 6.32 rad (1.92 rad/sec)	362° (95°/sec) 6.32 rad (1.66 rad/sec)	357° (88°/sec) 6.23 rad (1.54 rad/sec)
	J4 axis wrist rotation	720° (150°/sec) 12.57 rad (2.62 rad/sec)	720° (120°/sec) 12.57 rad (2.09 rad/sec)	720° (120°/sec) 12.57 rad (2.09 rad/sec)
	J5 axis wrist swing	250° (150°/sec) 4.36 rad (2.62 rad/sec)	250° (120°/sec) 4.36 rad (2.09 rad/sec)	250° (120°/sec) 4.36 rad (2.09 rad/sec)
	J6 axis wrist rotation	720° (220°/sec) 12.57 rad (3.84 rad/sec)	720° (190°/sec) 12.57 rad (3.32 rad/sec)	720° (190°/sec) 12.57 rad (3.32 rad/sec)
	Maximum load capacity at wrist	165 kg	210 kg	250 kg
Maximum load capacity at J2 base	550 kg	550 kg	550 kg	
Maximum load capacity at J3 arm	25 kg	25 kg	25 kg	
Allowable load moment at wrist	J4 axis	94 kgf·m 921 N·m	136 kgf·m 1333 N·m	141 kgf·m 1382 N·m
	J5 axis	94 kgf·m 921 N·m	136 kgf·m 1333 N·m	141 kgf·m 1382 N·m
	J6 axis	47 kgf·m 461 N·m	72 kgf·m 706 N·m	73 kgf·m 715 N·m
Allowable load inertia at wrist	J4 axis	800 kgf·cm·s ² 78.4 kg·m ²	1440 kgf·cm·s ² 141.1 kg·m ²	2300 kgf·cm·s ² 225.4 kg·m ²
	J5 axis	800 kgf·cm·s ² 78.4 kg·m ²	1440 kgf·cm·s ² 141.1 kg·m ²	2300 kgf·cm·s ² 225.4 kg·m ²
	J6 axis	410 kgf·cm·s ² 40.2 kg·m ²	800 kgf·cm·s ² 78.4 kg·m ²	2000 kgf·cm·s ² 196 kg·m ²
Drive method	Electric servo drive by AC servo motor			
Repeatability	± 0.2 mm	± 0.3 mm	± 0.3 mm	
Mass Note 2)	1,170 kg	1,240kg	1,270 kg	
Installation environment	Ambient temperature : 0~45°C Ambient humidity : Normally 75%RH or less Short term(within one month)95%RH or less Vibration : 0.5G or less		Note 3)	

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.

Note 2) Without controller.

Note 3) No dew allowed.

Operation Space (R-2000iB/165R, 200R, 100P)



Specification

Item		Specifications					
		R-2000iB/165R		R-2000iB/200R		R-2000iB/100P	
Type		Articulated type					
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)					
Reach		3.10 m		3.10 m		3.50 m	
Installation		Rack mount					
Motion range (Maximum speed) Note 1)	J1 axis rotation	360° (110°/sec) 6.28 rad (1.92 rad/sec)	360° (90°/sec) 6.28 rad (1.57 rad/sec)	360° (110°/sec) 6.28 rad (1.92 rad/sec)			
	J2 axis rotation	185° (100°/sec) 3.23 rad (1.75 rad/sec)	185° (85°/sec) 3.23 rad (1.48 rad/sec)	185° (90°/sec) 3.23 rad (1.57 rad/sec)			
	J3 axis rotation	365° (110°/sec) 6.37 rad (1.92 rad/sec)	365° (95°/sec) 6.37 rad (1.66 rad/sec)	365° (110°/sec) 6.37 rad (1.92 rad/sec)			
	J4 axis wrist rotation	720° (150°/sec) 12.57 rad (2.62 rad/sec)	720° (120°/sec) 12.57 rad (2.09 rad/sec)	720° (120°/sec) 12.57 rad (2.09 rad/sec)			
	J5 axis wrist swing	250° (150°/sec) 4.36 rad (2.62 rad/sec)	250° (120°/sec) 4.36 rad (2.09 rad/sec)	250° (120°/sec) 4.36 rad (2.09 rad/sec)			
	J6 axis wrist rotation	720° (220°/sec) 12.57 rad (3.84 rad/sec)	720° (190°/sec) 12.57 rad (3.32 rad/sec)	720° (190°/sec) 12.57 rad (3.32 rad/sec)			
	Maximum load capacity at wrist	165 kg	200 kg	100 kg			
	Maximum load capacity at J2 base	550 kg	550 kg	550 kg			
Maximum load capacity at J3 casing	25 kg	—	25 kg				
Allowable load moment at wrist	J4 axis	94 kgf·m 921 N·m	136 kgf·m 1333 N·m	100 kgf·m 980 N·m			
	J5 axis	94 kgf·m 921 N·m	136 kgf·m 1333 N·m	100 kgf·m 980 N·m			
	J6 axis	47 kgf·m 461 N·m	72 kgf·m 706 N·m	72 kgf·m 706 N·m			
Allowable load inertia at wrist	J4 axis	800 kgf·cm·s ² 78.4 kg·m ²	1440 kgf·cm·s ² 141.1 kg·m ²	2300 kgf·cm·s ² 225.4 kg·m ²			
	J5 axis	800 kgf·cm·s ² 78.4 kg·m ²	1440 kgf·cm·s ² 141.1 kg·m ²	2300 kgf·cm·s ² 225.4 kg·m ²			
	J6 axis	410 kgf·cm·s ² 40.2 kg·m ²	800 kgf·cm·s ² 78.4 kg·m ²	2000 kgf·cm·s ² 196 kg·m ²			
Drive method	Electric servo drive by AC servo motor						
Repeatability	± 0.3 mm						
Mass	Note 2)	1,480 kg	1,540 kg	1,560 kg			
Installation environment	Ambient temperature : 0~45°C Ambient humidity : Normally 75%Rh or less Short term (within one month) 95%RH or less Vibration : 0.5G or less			Note 3)			

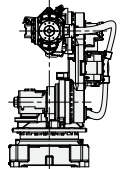
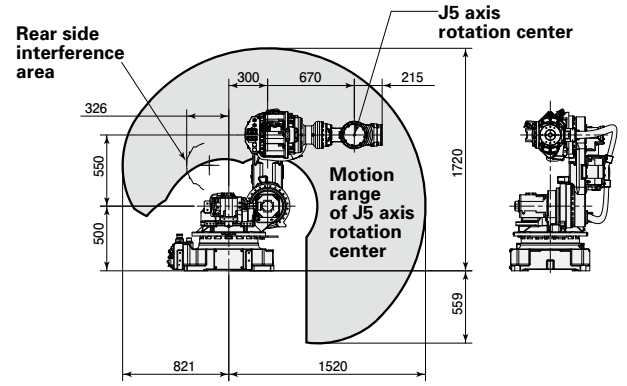
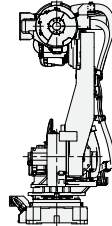
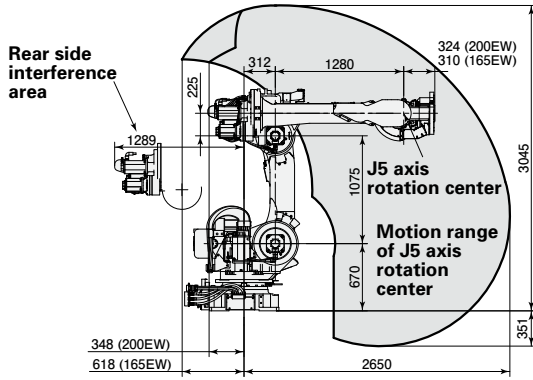
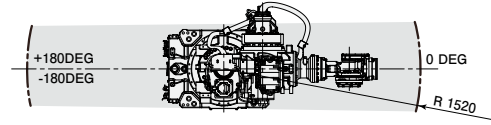
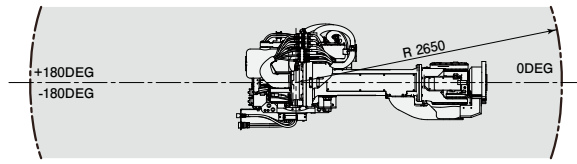
Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.

Note 2) Without controller.

Note 3) No dew allowed.

Operation Space (R-2000iB/165EW, 200EW)

Operation Space (R-2000iB/170CF)



Specification

Item	Specifications		
	R-2000iB/165EW	R-2000iB/200EW	
Type	Articulated type		
Controlled axes	6 axes (J1, J2, J3, J4, J5, J6)		
Reach	2.65 m	2.65 m	
Installation	Floor mount		
Motion range (Maximum speed)	J1 axis rotation	360° (105°/sec) 6.28 rad (1.83 rad/sec)	360° (90°/sec) 6.28 rad (1.57 rad/sec)
	J2 axis rotation	135° (90°/sec) 2.36 rad (1.57 rad/sec)	135° (85°/sec) 2.36 rad (1.48 rad/sec)
	J3 axis rotation	208° (105°/sec) 3.63 rad (1.83 rad/sec)	208° (90°/sec) 3.63 rad (1.57 rad/sec)
	J4 axis rotation	720° (130°/sec) 12.57 rad (2.27 rad/sec)	720° (110°/sec) 12.57 rad (1.92 rad/sec)
	J5 axis rotation	250° (130°/sec) 4.36 rad (2.27 rad/sec)	250° (110°/sec) 4.36 rad (1.92 rad/sec)
	J6 axis rotation	440° (210°/sec) 7.68 rad (3.67 rad/sec)	440° (155°/sec) 7.68 rad (2.71 rad/sec)
	Note 1)	Wrist swing	4.36 rad (2.27 rad/sec)
Maximum load capacity at wrist	165 kg	200 kg	
Maximum load capacity at J2 base	550 kg	550 kg	
Maximum load capacity at J3 casing	25 kg	25 kg	
Allowable load moment at wrist	J4 axis	110 kgf·m 1075 N·m	144 kgf·m 1411 N·m
	J5 axis	110 kgf·m 1075 N·m	144 kgf·m 1411 N·m
	J6 axis	47 kgf·m 461 N·m	70 kgf·m 686 N·m
Allowable load inertia at wrist	J4 axis	998 kgf·cm·s ² 97.8 kg·m ²	1396 kgf·cm·s ² 136.8 kg·m ²
	J5 axis	998 kgf·cm·s ² 97.8 kg·m ²	1396 kgf·cm·s ² 136.8 kg·m ²
	J6 axis	410 kgf·cm·s ² 40.2 kg·m ²	600 kgf·cm·s ² 58.8 kg·m ²
Drive method	Electric servo drive by AC servo motor		
Repeatability	± 0.3 mm		
Mass	1,400 kg	1,510 kg	
Installation environment	Ambient temperature : 0~45°C Ambient humidity : Normally 75%Rh or less Short term (within one month) 95%RH or less Note 3) Vibration : 0.5G or less		

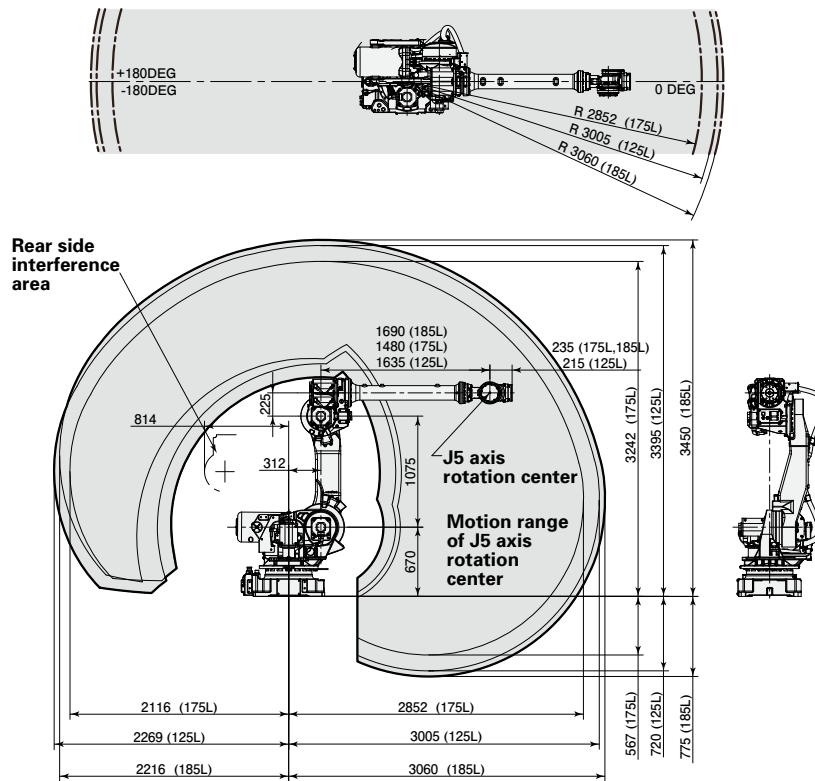
Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.
Note 2) Without controller.
Note 3) No dew allowed.

Specification

Item	Specifications	
	R-2000iB/170CF	
Type	Articulated type	
Controlled axes	6 axes (J1, J2, J3, J4, J5, J6)	
Reach	1.52 m	
Installation	Floor mount, Upside-down	
Motion range (Maximum speed)	J1 axis rotation	360° (110°/sec) 6.28 rad (1.92 rad/sec)
	J2 axis rotation	190° (110°/sec) 3.32 rad (1.92 rad/sec)
	J3 axis rotation	332° (110°/sec) 5.79 rad (1.92 rad/sec)
	J4 axis rotation	720° (150°/sec) 12.57 rad (2.62 rad/sec)
	J5 axis rotation	250° (150°/sec) 4.36 rad (2.62 rad/sec)
	J6 axis rotation	720° (220°/sec) 12.57 rad (3.84 rad/sec)
	Note 1)	Wrist rotation
Maximum load capacity at wrist	170 kg	
Maximum load capacity at J2 base	550 kg	
Maximum load capacity at J3 casing	25 kg	
Allowable load moment at wrist	J4 axis	94 kgf·m 921 N·m
	J5 axis	94 kgf·m 921 N·m
	J6 axis	47 kgf·m 461 N·m
Allowable load inertia at wrist	J4 axis	800 kgf·cm·s ² 78.4 kg·m ²
	J5 axis	800 kgf·cm·s ² 78.4 kg·m ²
	J6 axis	410 kgf·cm·s ² 40.2 kg·m ²
Drive method	Electric servo drive by AC servo motor	
Repeatability	± 0.15 mm	
Mass	800 kg	
Installation environment	Ambient temperature : 0~45°C Ambient humidity : Normally 75%Rh or less Short term (within one month) 95%RH or less Note 3) Vibration : 0.5G or less	

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.
Note 2) Without controller.
Note 3) No dew allowed.

Operation Space (R-2000iB/125L, 175L, 185L)



Specification

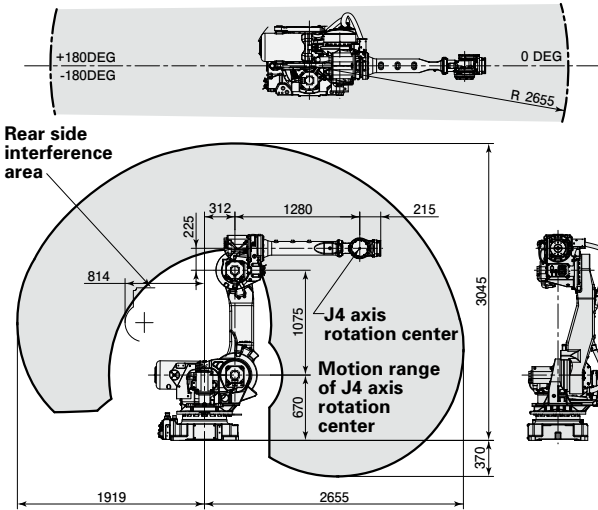
Item	Specifications			
	R-2000iB/125L	R-2000iB/175L	R-2000iB/185L	
Type	Articulated type			
Controlled axes	6 axes (J1, J2, J3, J4, J5, J6)			
Reach	3.01 m	2.85 m	3.06 m	
Installation	Floor mount			
Motion range (Maximum speed)	J1 axis rotation	360° (110°/sec) 6.28 rad (1.92 rad/sec)	360° (95°/sec) 6.28 rad (1.66 rad/sec)	360° (95°/sec) 6.28 rad (1.66 rad/sec)
	J2 axis rotation	136° (110°/sec) 2.37 rad (1.92 rad/sec)	136° (90°/sec) 2.37 rad (1.57 rad/sec)	136° (85°/sec) 2.37 rad (1.48 rad/sec)
	J3 axis rotation	352.6° (110°/sec) 6.15 rad (1.92 rad/sec)	356.1° (95°/sec) 6.21 rad (1.66 rad/sec)	346° (88°/sec) 6.04 rad (1.54 rad/sec)
	J4 axis wrist rotation	720° (170°/sec) 12.57 rad (2.97 rad/sec)	720° (120°/sec) 12.57 rad (2.09 rad/sec)	720° (120°/sec) 12.57 rad (2.09 rad/sec)
	J5 axis wrist swing	250° (170°/sec) 4.36 rad (2.97 rad/sec)	250° (120°/sec) 4.36 rad (2.09 rad/sec)	250° (120°/sec) 4.36 rad (2.09 rad/sec)
	J6 axis wrist rotation	720° (260°/sec) 12.57 rad (4.54 rad/sec)	720° (190°/sec) 12.57 rad (3.32 rad/sec)	720° (190°/sec) 12.57 rad (3.32 rad/sec)
Maximum load capacity at wrist	125 kg	175 kg	185 kg	
Maximum load capacity at J2 base	550 kg	550 kg	550 kg	
Maximum load capacity at J3 arm	20 kg	20 kg	—	
Allowable load moment at wrist	J4 axis	60 kgf·m 588 N·m	125 kgf·m 1225 N·m	125 kgf·m 1225 N·m
	J5 axis	60 kgf·m 588 N·m	125 kgf·m 1225 N·m	125 kgf·m 1225 N·m
	J6 axis	35 kgf·m 343 N·m	72 kgf·m 706 N·m	72 kgf·m 706 N·m
Allowable load inertia at wrist	J4 axis	600 kgf·cm·s ² 58.8 kg·m ²	2300 kgf·cm·s ² 225.4 kg·m ²	2300 kgf·cm·s ² 225.4 kg·m ²
	J5 axis	600 kgf·cm·s ² 58.8 kg·m ²	2300 kgf·cm·s ² 225.4 kg·m ²	2300 kgf·cm·s ² 225.4 kg·m ²
	J6 axis	230 kgf·cm·s ² 22.5 kg·m ²	2000 kgf·cm·s ² 196 kg·m ²	2000 kgf·cm·s ² 196 kg·m ²
Drive method	Electric servo drive by AC servo motor			
Repeatability	± 0.2 mm	± 0.3 mm	± 0.3 mm	
Mass	1,190 kg	1,260 kg	1,290 kg	
Installation environment	Ambient temperature : 0~45°C Ambient humidity : Normally 75%Rh or less Short term (within one month) 95%RH or less Vibration : 0.5G or less			

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.

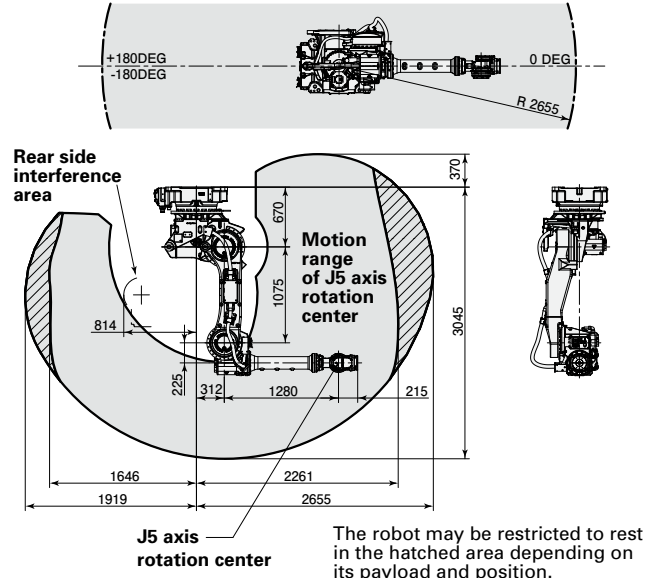
Note 2) Without controller.

Note 3) No dew allowed.

Operation Space (R-2000iB/100H)



Operation Space (R-2000iB/150U)



Specification

Item		Specifications R-2000iB/100H	
Type		Articulated type	
Controlled axes		5 axes (J1, J2, J3, J4, J5)	
Reach		2.66m	
Installation		Floor mount	
Motion range (Maximum speed)	J1 axis rotation	360° (130°/sec)	6.28 rad (2.27 rad/sec)
	J2 axis rotation	136° (130°/sec)	2.37 rad (2.27 rad/sec)
	J3 axis rotation	362° (130°/sec)	6.32 rad (2.27 rad/sec)
	J4 axis wrist swing	250° (170°/sec)	4.36 rad (2.97 rad/sec)
	J5 axis wrist rotation	720° (360°/sec)	12.57 rad (6.28 rad/sec)
	Note1)		
Maximum load capacity at wrist		100 kg	
Maximum load capacity at J2 base		550 kg	
Maximum load capacity at J3 arm		—	
Allowable load moment at wrist	J4 axis	45 kgf·m 441 N·m	
	J5 axis	25 kgf·m 245 N·m	
Allowable load inertia at wrist	J4 axis	400 kgf·cm·s ² 39.2 kg·m ²	
	J5 axis	160 kgf·cm·s ² 15.7 kg·m ²	
Drive method		Electric servo drive by AC servo motor	
Repeatability		± 0.2 mm	
Mass	Note2)	1,150 kg	
Installation environment		Ambient temperature : 0~45°C Ambient humidity : Normally 75%Rh or less Short term (within one month) 95%RH or less Note 3) Vibration : 0.5G or less	

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.

Note 2) Without controller.

Note 3) No dew allowed.

Specification

Item		Specifications R-2000iB/150U	
Type		Articulated type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		2.66m	
Installation		Upside-down	
Motion range (Maximum speed)	J1 axis rotation	360° (110°/sec)	6.28 rad (1.92 rad/sec)
	J2 axis rotation	136° (85°/sec)	2.37 rad (1.48 rad/sec)
	J3 axis rotation	362° (110°/sec)	6.32 rad (1.92 rad/sec)
	J4 axis wrist rotation	720° (150°/sec)	12.57 rad (2.62 rad/sec)
	J5 axis wrist swing	250° (150°/sec)	4.36 rad (2.62 rad/sec)
	J6 axis wrist rotation	720° (220°/sec)	12.57 rad (3.84 rad/sec)
Note1)			
Maximum load capacity at wrist		150 kg	
Maximum load capacity at J2 base		550 kg	
Maximum load capacity at J3 arm		10 kg	
Allowable load moment at wrist	J4 axis	85 kgf·m 833 N·m	
	J5 axis	85 kgf·m 833 N·m	
	J6 axis	43 kgf·m 421 N·m	
Allowable load inertia at wrist	J4 axis	800 kgf·cm·s ² 78.4 kg·m ²	
	J5 axis	800 kgf·cm·s ² 78.4 kg·m ²	
	J6 axis	410 kgf·cm·s ² 40.2 kg·m ²	
Drive method		Electric servo drive by AC servo motor	
Repeatability		± 0.2 mm	
Mass	Note2)	1,070 kg	
Installation environment		Ambient temperature : 0~45°C Ambient humidity : Normally 75%Rh or less Short term (within one month) 95%RH or less Note 3) Vibration : 0.5G or less	

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.

Note 2) Without controller.

Note 3) No dew allowed.

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