PAYLOAD: 80-100KG

R-10001A

THE FANUC R-1000*i*A ROBOT IS A COMPACT, HIGH-SPEED SIX AXIS ROBOT WITH AN 80-100KG PAYLOAD CAPACITY. OUTSTANDING MOTION PERFORMANCE COMBINED WITH A STRONG WRIST MAKE THIS ROBOT SUITABLE FOR A WIDE RANGE OF INDUSTRIAL APPLICATIONS:



FANUC R-1000*i*A/80F

FANUC R-1000*i*A/100F

- High Density Spot Welding
- Compact Spot Welding
- Packing & Palletizing
- Material Removal
- Machine Load/Unload
- Material Handling
- Dispensing
- General Assembly

FEATURES AND BENEFITS:

- Highest speed in its class.
- Slim profile design to minimize interference with system peripherals and allow operation in confined spaces.
- Large operating space (including its rear and downward side) due to a serial link configuration.
- High-speed approach from home to working position and fast positioning in short pitch motion can minimize the required process time.
- Optional Solution Arm dressout packages include welding cables, cooling water hoses and signal wires to support spot
 welding processes.
- "Best in class" wrist moments and inertia meet a variety of handling challenges.
- $\bullet\,$ Proven, reliable FANUC servo drives provide highest uptime and productivity.
- Stationary outer arm simplifies hose and cable dressout and prolongs service life.
- Rugged, IP67 rated wrist design performs reliably even in the harshest manufacturing environments.
- Wrist motors located at the rear of J3 keep them isolated from hot, wet or dirty environments.
- The R-30*i*A robot controller enables intelligent functions including integrated vision and networking options.
- Invert mount installation is possible where space is a concern.



The R-1000 \dot{t} A/80F is equipped with \dot{t} RVision and other intelligent functions



The R-1000iA/100F features factory installed process cable routing

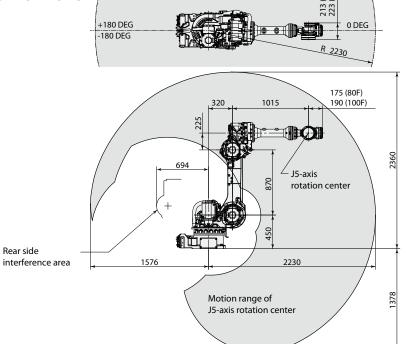


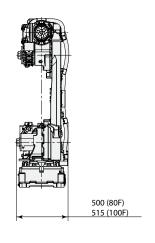
The R-1000 \dot{t} A/80F is ideal for spot welding or material handling



PAYLOAD: 80-100KG

R-1000iA SERIES SPECIFICATIONS:





Item		Specifications			
		R-	1000 <i>i</i> A/80F	R-1	000 <i>i</i> A/100F
Controlled Axes		6 (J1, J2, J3, J4, J5, J6)			
Reach		2230 mm			
Installation		Floor, Inverted			
Motion range (Maximum speed) (Note 1)	J1 axis rotation	360° (170°/sec) 6	.28 rad (2.97 rad/sec)	360° (130°/sec) 6.3	28 rad (2.27 rad/sec)
	J2 axis rotation	245° (140°/sec) 4	.28 rad (2.44 rad/sec)	245° (110°/sec) 4.3	28 rad (1.92 rad/sec)
	J3 axis rotation	360° (160°/sec) 6	.28 rad (2.79 rad/sec)	360° (120°/sec) 6.3	28 rad (2.09 rad/sec)
	J4 axis wrist rotation	720° (230°/sec) 12	.57 rad (4.01 rad/sec)	720° (170°/sec) 12.57 rad (2.97 rad/sec)	
	J5 axis wrist swing	250° (230°/sec) 4	.36 rad (4.01 rad/sec)	250° (170°/sec) 4.36 rad (2.97 rad/sec)	
	J6 axis wrist rotation	720° (350°/sec) 12	.57 rad (6.11 rad/sec)	720° (250°/sec) 12.	57 rad (4.36 rad/sec)
Max load capacity at wrist		80 kg (A)		100 kg	
Max load capacity on J3 arm		-	(A)+(B)<80	20 kg (C)	(C)+(D)<20
Max load capacity on J3 casing		15 kg (B)		20 kg (D)	
Allowable load moment at wrist	J4 axis	380 N	l·m 38.8 kgf·m	690 N·m 70.4 kgf·m	
	J5 axis	380 N·m 38.8 kgf·m 690 N·m 70.4 kgf·m		m 70.4 kgf·m	
	J6 axis	200 N	200 N·m 20.4 kgf·m 260 N·m 26.5 kgf·m		m 26.5 kgf·m
Allowable load inertia at wrist	J4 axis	30 kg·m² 306.1 kgf·cm·s²		57 kg·m² 581.6 kgf·cm·s²	
	J5 axis	30 kg·m² 306.1 kgf·cm·s²		57 kg·m² 581.6 kgf·cm·s²	
	J6 axis	20 kg·m	² 204.1 kgf·cm·s ²	32 kg·m² 326.5 kgf·cm·s²	
Drive Method		Electric servo drive AC servo motor			
Repeatability		± 0.2 mm			
Mass (Note 2)		620 kg		665 kg	
Installation environment		Ambient temperature: Ambient humidity: Vibration:	t humidity: Normally 75%RH or less (No dew nor frost allowed) Short term 95%RH or less (within one month)		

Note 1) In case of short distance motion, the axis does not reach its maximum speed. Note 2) Without controller $\,$



FANUC ROBOTICS AMERICA CORPORATION 3900 WEST HAMLIN ROAD ROCHESTER HILLS MI 48309-3253

