

FANUC

Unique painting robot with seven integrated axes



LARGE MOTION RANGE



BALANCED ARM LENGTH

provides excellent near and far reach



15 KG PAYLOAD
capacity

P-1000iA



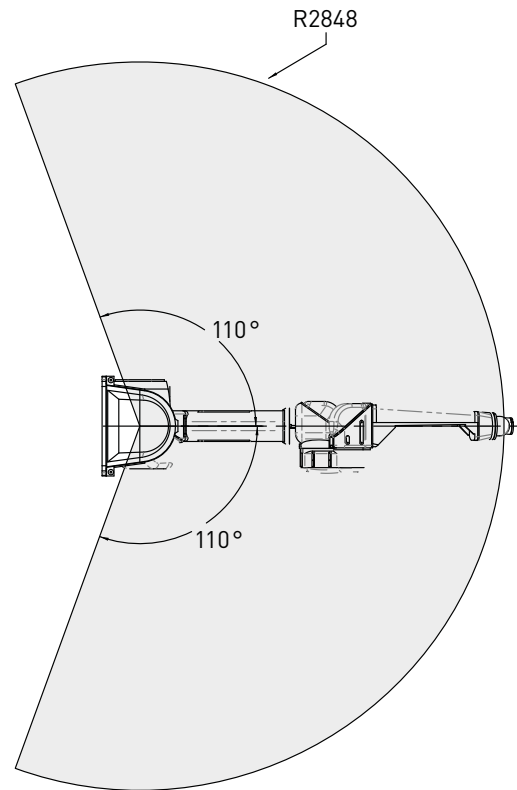
Next level precision and productivity

- optimally position arm in interior and exterior paint programs
- inverted pedestal installation maximising work envelop
- with 7 degrees of freedom, painting work can be done efficiently in a limited space. The paint booth can be drastically reduced with a flexible layout.
- P-1000iA has a hollow wrist structure which is easy with piping. Paint control and colour valves can be installed inside the arm, realising reduced purge time and paint waste.
- it also supports electrostatic painting of waterborne paint, 1K and 2K solvent paints.
- it can be controlled from one controller in combination with the hood opener robot, P-35iA and the door opener robot, P-20iB.
- FANUC's Zero Down Time package, which monitors and protects mechanical parts and painting process equipment is available (option).

P-1000iA SPECIFICATIONS

OPERATING SPACE

Model	P-1000iA	
Type	Articulated Type	
Controlled axes	7 axes (J1, J2, J3, J4, J5, J6, J7)	
Reach	2848 mm	
Installation	Wall mount	
Motion range (Maximum speed) (Note 1)	J1 axis rotation	220° (125°/s) 3.84 rad (2.18 rad/s)
	J2 axis rotation	150° (125°/s) 2.62 rad (2.18 rad/s)
	J3 axis rotation	240° (120°/s) 4.19 rad (2.09 rad/s)
	J4 axis rotation	160° (120°/s) 2.79 rad (2.09 rad/s)
	J5 axis rotation	1440° (200°/s) 25.13 rad (3.49 rad/s)
	J6 axis rotation	1440° (200°/s) 25.13 rad (3.49 rad/s)
	J7 axis rotation	1440° (200°/s) 25.13 rad (3.49 rad/s)
Max. load capacity at wrist	10 kg (1500 mm/s, 15 kg (1200 mm/s)	
Max. load capacity on J2 arm	15 kg	
Max. load capacity on J4 arm	25 kg	
Allowable load moment at wrist	J5 axis	68 N.m 6.9 kgf.m
	J6 axis	57 N.m 5.8 kgf.m
	J7 axis	7.4 N.m 0.76 kgf.m
Allowable load Inertia at wrist	J5 axis	3.2 kg.m ² 32.7 kgf.cm.s ²
	J6 axis	2.2 kg.m ² 22.4 kgf.cm.s ²
	J7 axis	0.07 kg.m ² 0.71 kgf.cm.s ²
Drive method	Electric servo drive by AC servo motor	
Repeatability	± 0.5 mm	
Mass [Note2]	700 kg	
Installation environment	Ambient temperature: 0 - 45°C Ambient humidity: Normally 75% RH or less (No dew nor frost allowed) Short term Max 95% RH or less (within one month) Vibration acceleration: 4.9 m/s ² (0.5G) or less	



Anmerkung 1) Bei kurzen Bahnen kann die programmierte Maximalgeschwindigkeit eventuell nicht erreicht werden.
Anmerkung 2) Ohne Steuerung.

