

FANUC Robot P-1000*i*A



FEATURES

FANUC Robot P-1000*i*A is a paint robot with 15kg payload capacity with a large motion range and 7 axes.

- With 7degrees of freedom, painting work can be done efficiently in a limited space. The paint booth can be drastically reduced with a flexible layout.
- P-1000*i*A has a hollow wrist structure which is easy with piping. Paint control and color valves can be installed inside the arm, realizing 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-35*i*A, and the door opener robot, P-20*i*B.
- FANUC's ZDT(Zero Down Time) package, which monitors and protects mechanical parts and painting process equipment is available. (option)

Application Examples



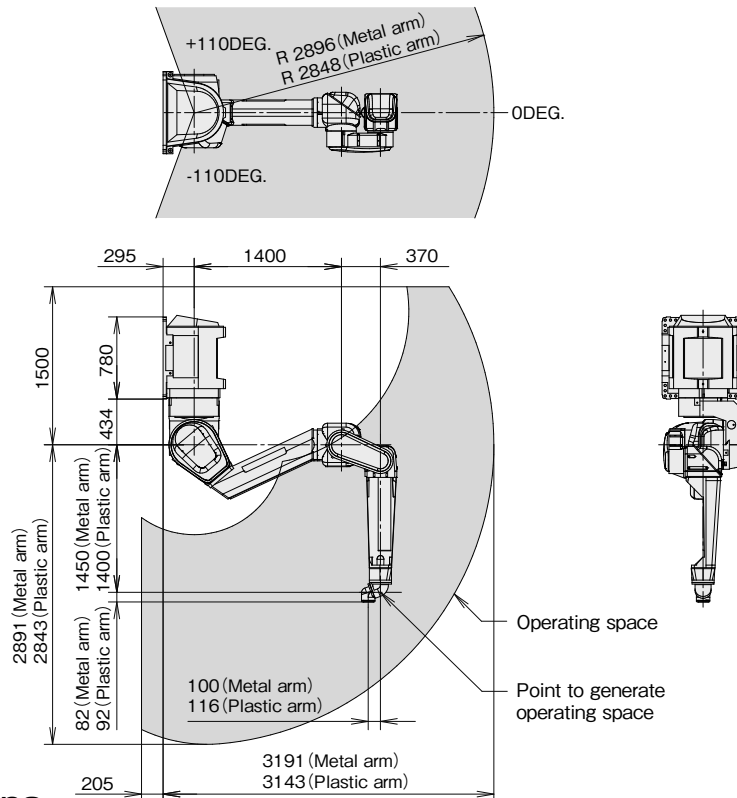
Hood opener P-35*i*A



Body painting by P-1000*i*A and door opener P-20*i*B

Operating space

P-1000iA



Specifications

Model		P-1000iA	
Type		Articulated Type	
Controlled axes		7 axes (J1,J2,J3,J4,J5,J6,J7)	
Reach		2896 mm (Metal arm) 2848 mm (Plastic arm)	
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	145° (120°/s)	2.53 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		15 kg	
Max. load capacity on J2 arm		15 kg	
Max. load capacity on J4 arm		25 kg	
Allowable load moment at wrist	J5 axis	65 N·m 6.6 kgf·m (Metal arm)	68 N·m 6.9 kgf·m (Plastic arm)
	J6 axis	55 N·m 5.6 kgf·m (Metal arm)	57 N·m 5.8 kgf·m (Plastic arm)
	J7 axis	11.5 N·m 1.17 kgf·m	
Allowable load inertia at wrist	J5 axis	3.0 kg·m ² 30.6 kgf·cm·s ² (Metal arm)	3.2 kg·m ² 32.7 kgf·cm·s ² (Plastic arm)
	J6 axis	2.1 kg·m ² 21.4 kgf·cm·s ² (Metal arm)	2.2 kg·m ² 22.4 kgf·cm·s ² (Plastic arm)
	J7 axis	0.35 kg·m ² 3.57 kgf·cm·s ²	
Drive method		Electric servo drive by AC servo motor	
Repeatability		± 0.08 mm	
Mass (Note 2)		700 kg	
Explosion protection rating		pxb iIB T4 Gb (Gas) (Japan) Class I, II, III Div. I Group C, D, E, F, G T4 (Gas, Dust) (US) II 2 G c Ex ib ppx iIB T4 Gb, II 2 D c Ex ib p iIB T135°C Db (Gas, Dust) (EU) Ex c ib ppx iIB T4 Gb, Ex c ib p iIB T135°C Db (Gas, Dust) (China)	
Installation environment		Ambient temperature : 0 - 45°C Ambient humidity : Normally 75%RH or less (No condensation allowed) Short time (within one month) Max 95%RH (No condensation allowed) Vibration acceleration : 4.9 m/s ² (0.5G) or less	

Note 1) During short distance motions, the axis speed may not reach the maximum value stated. Note 2) Without controller.

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