

FANUC Robot CRX-10*i*A/L Paint



FEATURES

FANUC Robot CRX-10*i*A/L Paint is the global Ex-Proof collaborative paint robot based on CRX-10*i*A/L designed for ease of use.

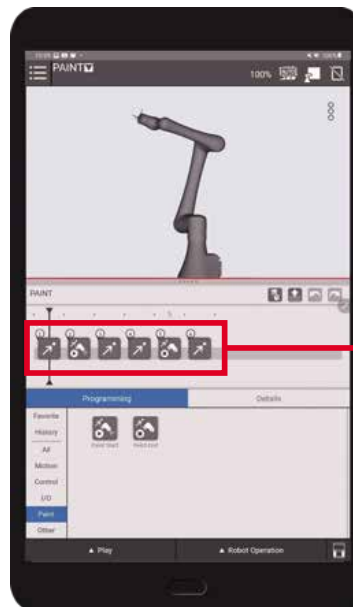
- Approved for use in Zone 1 hazardous areas due to its high Equipment Protection Level Gb rating.
- Human operator and robot can work in the same area without safety fences.
- Operators can easily program paint paths using the manual guide teach functions, even in Ex-Proof paint environments.
- Painting motion programs can be saved and applied to another part.
- Icon programming that enables intuitive operation is now compatible with paint applications.
- Highly sensitive contact-stopping function is the same as other CRX models.
- Control unit for hazardous area controls and R-30*i*B Mini Plus controller have a stacked structure, which contributes to space savings.

Application Example



Gasoline tank painting

Paint Icon Command



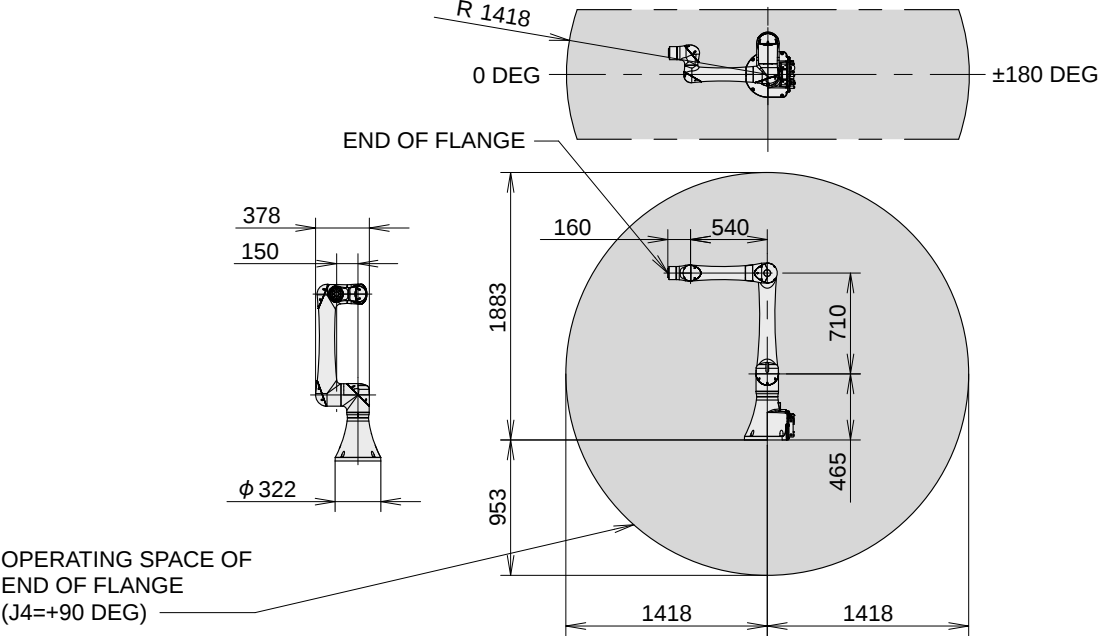
Paint Start
Icon



Paint End
Icon

Operating Space

CRX-10iA/L Paint



Specifications

Model		CRX-10iA/L Paint
Type		6 axes (J1, J2, J3, J4, J5, J6)
Reach		1418 mm
Installation		Floor, Upside-down, Angle mount
Maximum speed (Note 1, Note 2)	Collaborative mode	1000 mm/s
	High speed mode	2000 mm/s
Max. load capacity at wrist		10 kg
Allowable load moment at wrist	J4 axis	34.8 Nm
	J5 axis	26.0 Nm
	J6 axis	11.0 Nm
Allowable load inertia at wrist	J4 axis	1.28 kg·m ²
	J5 axis	0.90 kg·m ²
	J6 axis	0.30 kg·m ²
Repeatability		±0.04 mm
Mass (Note 3)		47 kg
Noise (Note 4)		70 dB or less
Degree of protection		Conform to IP67 (Note 5)
Explosion protection rating		Ex ib pxb IIB T4 Gb, Ex ib pxb IICT135°C Db (Gas, Dust) (Japan) Class 1, Zone 1, AEx ib pxb IIB T4 Gb, Class 2, Zone 21, AEx ib pxb IICT135°C Db (Gas, Dust) (US) II 2 G Ex h ib pxb IIB T4 Gb, II 2 D Ex h ib pxb IICT135°C Db (Gas, Dust) (EU) Ex ib pxb IIB T4 Gb, Ex ib pxb IICT135°C Db (Gas, Dust) (China)
Installation environment		Ambient temperature : 0 to 45°C Ambient humidity : Normally 75%RH or less (No condensation allowed) : Short term (Within one month) 95%RH or less (No condensation allowed) Vibration acceleration : 4.9m/s ² (0.5G) or less
Matching controller R-30iB Mini Plus	Rated Voltage	100 to 120 VAC, 200 to 240 VAC Single phase +10% -15%, 50/60Hz
	Input power source capacity	1.5 kVA
	Mass of controller	44 kg
	Dimensions (WxDxH)	410 x 307 x 740 mm
	Degree of protection	IP54

Note 1) During short distance motions, the axis speed may not reach the maximum value stated.
Note 2) It is necessary to set a motion speed according to risk assesment of system.
Note 3) Without controller.
Note 4) This value is equivalent continuous A-weighted sound pressure level, which applied with ISO11201(EN31201).
This value is measured with the following conditions:
- Maximum load and speed
- Operating mode is AUTO
Note 5) Except for J1 connector panel unit.
Note 6) Controller should be located at Non-Hazardaous area.

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