

FANUC Robot M-710iD



Features

FANUC Robot M-710iD is a middle size handling robot that pursues ease of use and environmental resistance.

- Basic performance such as payload capacity and operating speed are enhanced.
- Curved J2 arm enables avoiding interference with obstacles in front of the robot and accessing to a deep area more easily.
- A full cover can be attached. Furthermore, the reduced surface exposure of the joints enhances the dust and liquid resistance.
- It is reliable in various applications in harsh environment, such as load / unload for machined parts, de-burring and die cast loading.
- The robot arm is stylishly designed and improves its rigidity.
- The mounting and end effector installation dimensions of M-710iC are maintained, allowing a smooth replacement.

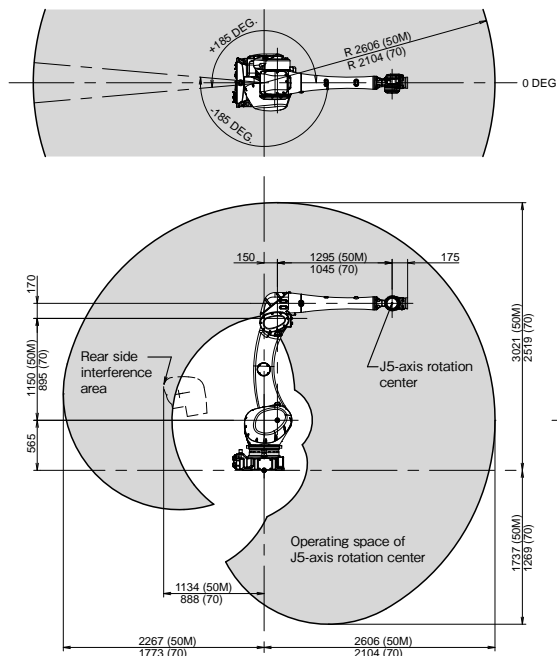
Application Example



Handling Cardboard Boxes to Cargo Pallet

Operating space

M-710iD/50M, /70



Specifications

Model		M-710iD/50M	M-710iD/70
Type		Articulated Type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		2606 mm	2104 mm
Installation Note 1)		Floor, Upside-down, Angle	
Motion range (Maximum speed) Note 2)	J1 axis rotation	370°(180°/s) 6.46 rad (3.14 rad/s)	370°(180°/s) 6.46 rad (3.14 rad/s)
	J2 axis rotation	225°(180°/s) 3.93 rad (3.14 rad/s)	225°(180°/s) 3.93 rad (3.14 rad/s)
	J3 axis rotation	440°(180°/s) 7.68 rad (3.14 rad/s)	440°(180°/s) 7.68 rad (3.14 rad/s)
	J4 axis wrist rotation	800°(260°/s) 13.96 rad (4.54 rad/s)	720°(260°/s) 12.57 rad (4.54 rad/s)
	J5 axis wrist swing	250°(260°/s) 4.36 rad (4.54 rad/s)	250°(260°/s) 4.36 rad (4.54 rad/s)
	J6 axis wrist rotation	800°(370°/s) 13.96 rad (6.46 rad/s)	720°(370°/s) 12.57 rad (6.46 rad/s)
Max load capacity at wrist		50 kg	70 kg
Max load capacity on J3 casing Note 3)		Total 20 kg	
Max load capacity on J3 arm Note 3)		20 kg	
Allowable load moment at wrist	J4 axis	215 N·m 22 kgf·m	300 N·m 31 kgf·m
	J5 axis	215 N·m 22 kgf·m	300 N·m 31 kgf·m
	J6 axis	130 N·m 13 kgf·m	150 N·m 15 kgf·m
Allowable load inertia at wrist	J4 axis	30 kg·m ² 306 kgf·cm·s ²	30 kg·m ² 306 kgf·cm·s ²
	J5 axis	30 kg·m ² 306 kgf·cm·s ²	30 kg·m ² 306 kgf·cm·s ²
	J6 axis	20 kg·m ² 204 kgf·cm·s ²	15 kg·m ² 153 kgf·cm·s ²
Drive method		Electric servo drive by servo motor	
Repeatability Note 4)		± 0.06 mm	± 0.03 mm
Mass Note 5)		600 kg	580 kg
Installation environment		Ambient temperature : 0 to 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 : 4.9m/s ² (0.5G) or less	

Note 1) In case of angle mounting, J1 and J2 axis motion range are restricted.

Note 2) During short distance motions, the axis speed may not reach the maximum value stated.

Note 3) Max. load capacity on J3 arm and J3 casing are limited by payload at wrist.

Note 4) Compliant with ISO 9283.

Note 5) Without controller.

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