

Large-size Intelligent Palletizing Robot

FANUC Robot M-410*i*C



FEATURES

- M-410*i*C is an intelligent palletizing robot which contributes for robotization of palletizing system.
- Suitable robot models can be selected according with the work pieces.
 - M-410*i*C/185 Payload 185kg
 - M-410*i*C/315 Payload 315kg
 - M-410*i*C/500 Payload 500kg
- There are two types of base.
 - Pedestal type base :
The controller can be placed under the pedestal. It eliminates cabling at installation, and saves the installation space.
 - Compact base :
The base minimizes the robot maximum height. It is suitable for low ceiling location, or for integration into a manufacturing system.
- The hollow wrist enables easy wiring to a gripper.
- Advanced intelligent functions are available as an option, such as *i*RVision (integrated vision) .

Application System



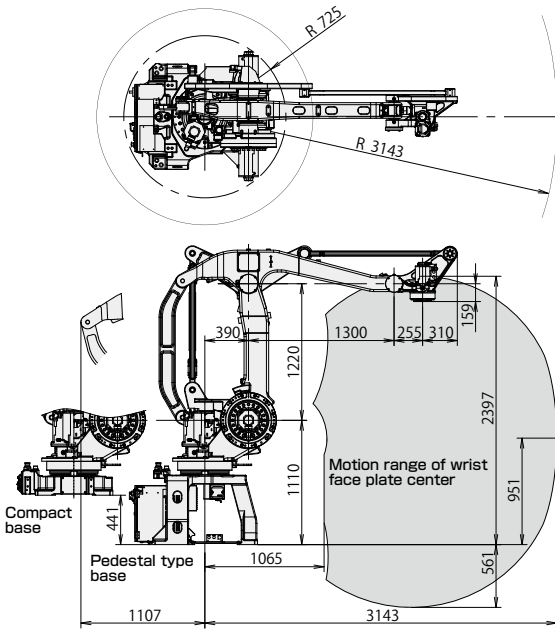
Boxes Palletizing



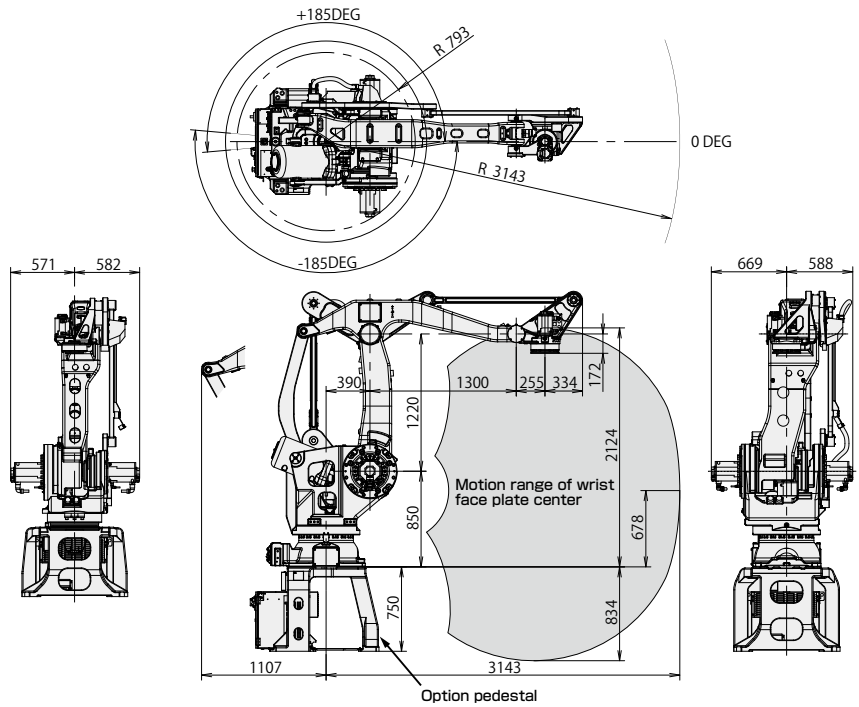
Bags Palletizing

Operating Space

M-410iC/185, /315



M-410iC/500



Specifications

Model		M-410iC/185	M-410iC/315	M-410iC/500
Type		Articulated Type		
Controlled axes		4 axes (J1,J2,J3,J4)		
Reach		3143 mm		
Installation		Floor		
Motion range (Maximum speed) (Note 1)	J1 axis rotation	360° (140°/s) 6.28 rad (2.44 rad/s)	360° (90°/s) 6.28 rad (1.57 rad/s)	370° (85°/s) 6.46 rad (1.48 rad/s)
	J2 axis rotation	144° (140°/s) 2.51 rad (2.44 rad/s)	144° (100°/s) 2.51 rad (1.75 rad/s)	144° (85°/s) 2.51 rad (1.48 rad/s)
	J3 axis rotation	136° (140°/s) 2.37 rad (2.44 rad/s)	136° (110°/s) 2.37 rad (1.92 rad/s)	136° (85°/s) 2.37 rad (1.48 rad/s)
	J4 axis wrist rotation	720° (305°/s) 12.57 rad (5.32 rad/s)	720° (195°/s) 12.57 rad (3.40 rad/s)	720° (200°/s) 12.57 rad (3.49 rad/s)
Max. load capacity at wrist		185 kg	315 kg	500 kg
Max. load capacity at J2 base		550 kg		
Max. load capacity at J3 arm (Note2)		30 kg		
Allowable load inertia at wrist		88 kgm ² 898 kgfoms ²	155 kgm ² 1580 kgfoms ²	250 kgm ² 2550 kgfoms ²
Drive method		Electric servo drive by AC servo motor		
Repeatability		± 0.5 mm		
Mass	Pedestal type	1600 kg (Note3)		2410 kg (Note3)
	No pedestal	1330 kg (Note4)		1910 kg (Note4)
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		

Note 1) In case of short distance motion, the axis speed may not reach the maximum value stated.

Note 2) Max. payload capacity at wrist are changed by wrist load.

Note 3) Controller mass (120kg) is included.

Note 4) Controller mass (120kg) is not included.

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