

FANUC Robot M-410*i*C



Features

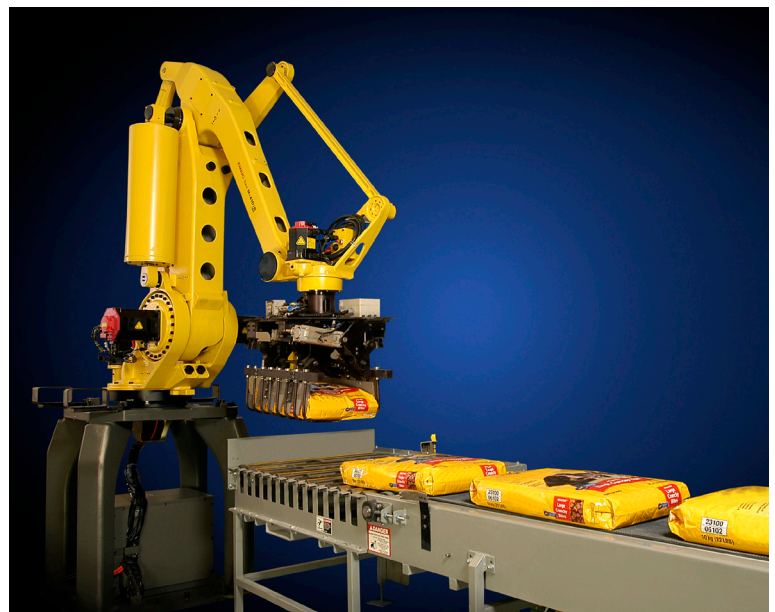
The M-410*i*C is the ideal intelligent solution for automation of palletizing systems.

- Two models are available to meet the needs of speed and payload.
 - M-410*i*C/110 Payload 110kg
 - M-410*i*C/185 Payload 185kg
 - M-410*i*C/315 Payload 315kg
 - M-410*i*C/500 Payload 500kg
- M-410*i*C/110 has a compact body and high throughput.
- M-410*i*C/185, /315 and /500 support two types of bases.
 - Two base variations available for enhanced flexibility.
 - Pedestal base eliminates cabling operation, saves space with R-30*i*B controller underneath robot.
 - Compact base minimizes robot height for low ceiling placement or integration into existing systems.
- Hollow wrist for easy wiring to EOAT.
- Easy integration of advanced features such as *i*RVision and simulated programming with R-30*i*B controller.

Application system



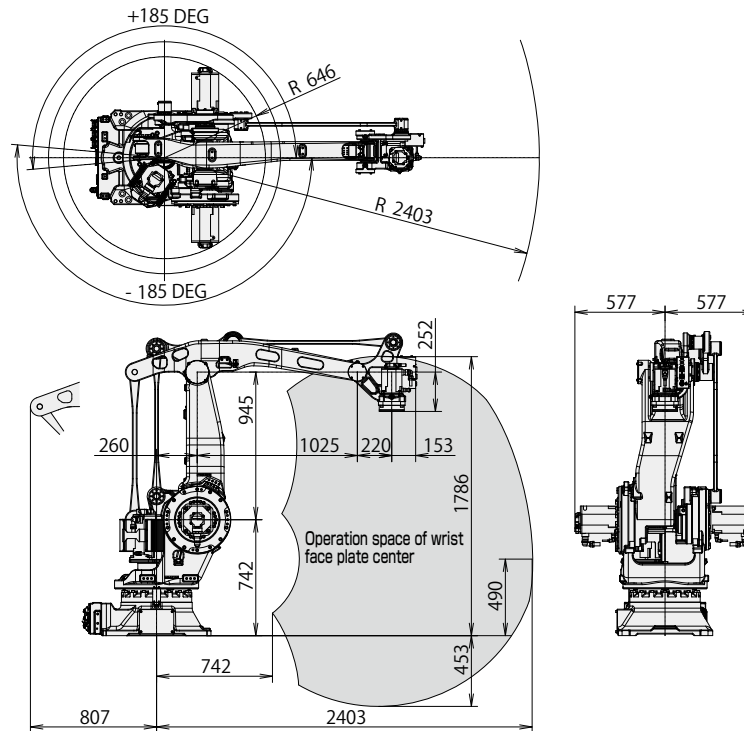
Box Palletizing



Bag Palletizing

Operating Space

M-410iC/110



Specifications

Model		M-410iC/110
Type		Articulated Type
Controlled axes		4 axes (J1, J2, J3, J4)
Reach		2403 mm
Installation		Floor
Motion range (Maximum speed) (Note 1)	J1 axis rotation	370° (145°/s) 6.46 rad (2.53 rad/s)
	J2 axis rotation	125° (130°/s) 2.18 rad (2.27 rad/s)
	J3 axis rotation	140° (140°/s) 2.44 rad (2.44 rad/s)
	J4 axis wrist rotation	720° (420°/s) 12.57 rad (7.33 rad/s)
Max. load capacity at wrist		110 kg
Max. load capacity at J2 base		550 kg
Max. load capacity at J3 arm (Note 2)		30 kg
Allowable load inertia at wrist		53 kg·m ² 540 kgf·cm·s ²
Drive method		Electric servo drive by AC servo motor
Repeatability		± 0.05 mm (Note 3)
Mass		1030 kg (Note 4)
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 : 4.9 m/s ² (0.5G) or less

Note 1) During short distance motions, the axis speed may not reach the maximum value stated.

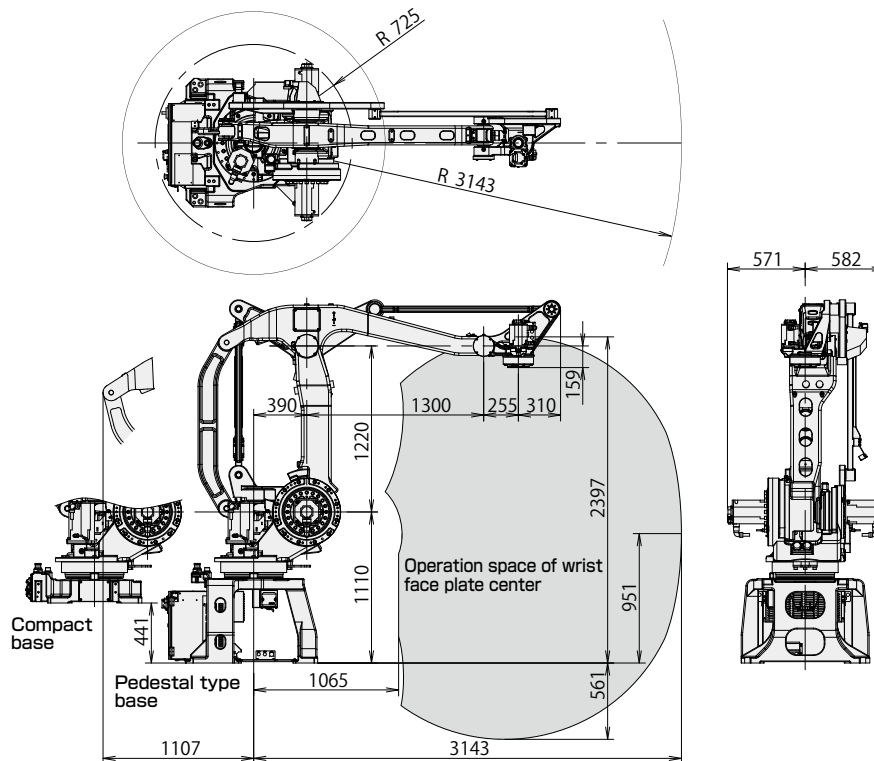
Note 2) Max. payload capacity at wrist are changed by wrist load.

Note 3) Compliant with ISO 9283.

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

Operating Space

M-410iC/185, /315



Specifications

Model		M-410iC/185	M-410iC/315
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)
	J2 axis rotation	144° (140°/s) 2.51 rad (2.44 rad/s)	144° (100°/s) 2.51 rad (1.75 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)
	J4 axis wrist rotation	720° (305°/s) 12.57 rad (5.32 rad/s)	720° (195°/s) 12.57 rad (3.40 rad/s)
Max. load capacity at wrist		185 kg	315 kg
Max. load capacity at J2 base		550 kg	
Max. load capacity at J3 arm (Note 2)		30 kg	
Allowable load inertia at wrist		88 kg·m ² 898 kgf·cm·s ²	155 kg·m ² 1580 kgf·cm·s ²
Drive method		Electric servo drive by AC servo motor	
Repeatability		± 0.5 mm	
Mass	Pedestal type	1600 kg (Note 3)	
	No pedestal	1330 kg (Note 4)	
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 : 4.9 m/s ² (0.5G) or less	

Note 1) During short distance motions, the axis speed may not reach the maximum value stated.

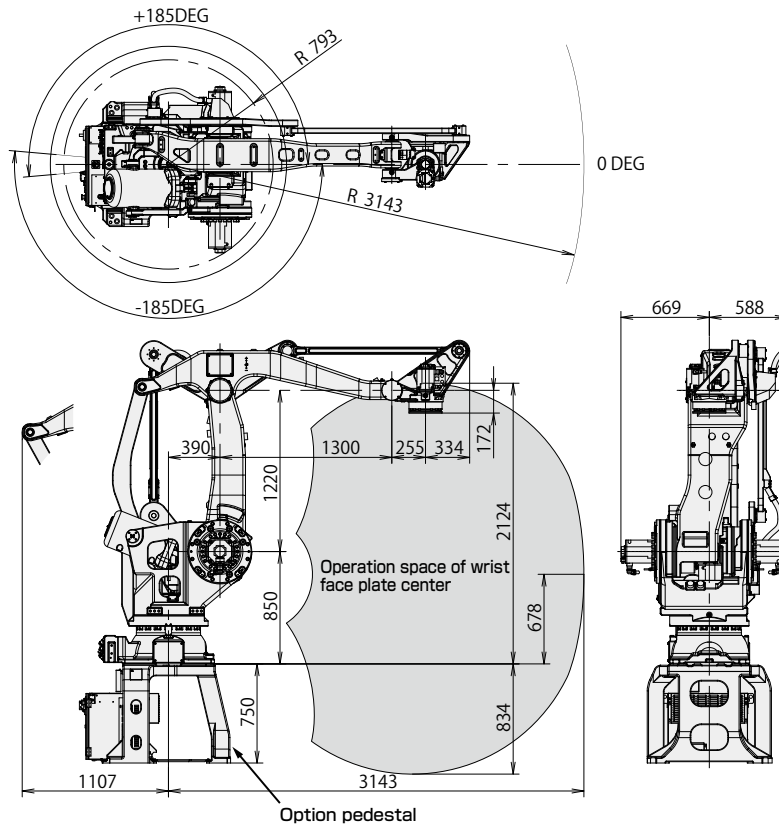
Note 2) Max. payload capacity at wrist are changed by wrist load.

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

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

Operating Space

M-410iC/500



Specifications

Model		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	370° (85°/s) 6.46 rad (1.48 rad/s)
	J2 axis rotation	144° (85°/s) 2.51 rad (1.48 rad/s)
	J3 axis rotation	136° (85°/s) 2.37 rad (1.48 rad/s)
	J4 axis wrist rotation	720° (200°/s) 12.57 rad (3.49 rad/s)
Max. load capacity at wrist		500 kg
Max. load capacity at J2 base		550 kg
Max. load capacity at J3 arm (Note 2)		30 kg
Allowable load inertia at wrist		250 kg·m ² 2550 kgf·cm·s ²
Drive method		Electric servo drive by AC servo motor
Repeatability		± 0.5 mm
Mass	Pedestal type	2410 kg (Note 3)
	No pedestal	1910 kg (Note 4)
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 : 4.9 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) 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.

FANUC

FANUC AMERICA CORPORATION
3900 WEST HAMLIN ROAD
ROCHESTER HILLS MI 48309-3253

