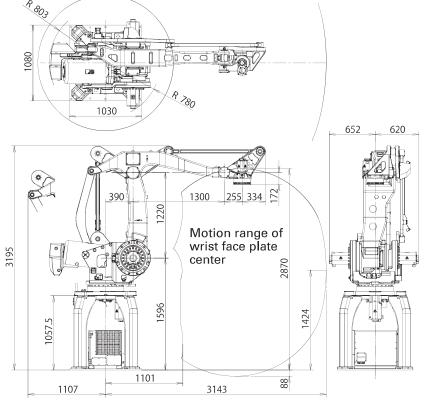
FANUC Robot M-4101B/700

Operating space



Specifications

Item		Specifications	
		M-410 <i>i</i> B/700	
Туре		ArticulatedType	
Controlled axes		4 axes (J1,J2,J3,J4)	
Reach		3.14m	
Installation		Floor	
Martine and a	J1 axis rotation	360° (60°/s) 6.28 rad (1.05 rad/s)	
Motion range	J2 axis rotation	144° (60°/s) 2.51 rad (1.05 rad/s)	
(Maximum speed) (Note1)	J3 axis rotation	136° (60°/s) 2.37 rad (1.05 rad/s)	
(NoteT)	J4 axis rotation	540° (120°/s) 9.42 rad (2.09 rad/s)	
Max. load capacity at wrist		Max.700 kg	
Allowable load inertia at wrist		490 kg • m ² 5000 kgf • cm • s ²	
Throughput (Note2)		700 cycles/hour	
Drive method		Electric servo drive by AC servo motor	
Repeatability		± 0.5 mm	
Mass (Note3)		2700 kg	
		Ambient temperature : 0~45°C	
		Ambient humidity :	
Installation envir	onment	Normally 75%RH or less (No dew, nor frost allowed)	
		Short term Max. 95%RH or less (within one month)	
		Vibration : 0.5G or less	

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one. Note 2) With maximum payload, the horizontal range is 2000mm and vertical one is 400mm. Note 3) Controller mass (120kg) is included.

FANUC

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FANUC LITHO IN U.S.A. FRA - 2/24/2014

FANUC Robot M-4101B



Application Systems



Box Palletizing

Features

- The M-410*t*B series is the ideal intelligent solution for automation of palletizing systems.
- The wide range of M-410 \dot{i} B robot variations make it suitable for any application and payload. FANUC Robot M-410 iB/140H
 - 140kg payload, high speed type

FANUC Robot M-410*i*B/160 160kg payload, high speed type

FANUC Robot M-410*i*B/300 300kg payload, heavy payload type

FANUC Robot M-410*i*B/450 450kg payload, heavy payload type

FANUC Robot M-410*i*B/700 700kg payload, super heavy payload type

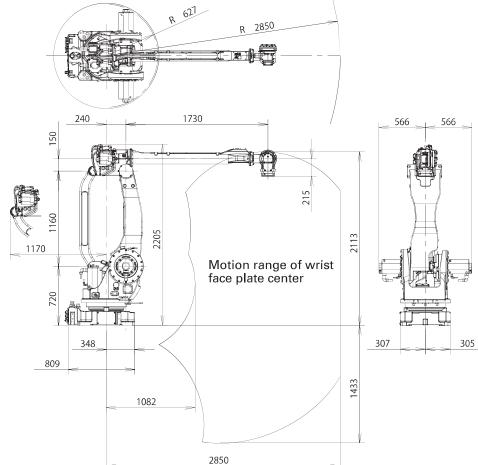
- The M-410iB robot series comes iRVision ready and can be programmed and simulated through ROBOGUIDE.
 - Detection of height of workpieces
 - Discrimination of a part size or type
 - Visual inspection
 - Sorting of workpieces
 - Depalletizing the load on a received pallet
 - Easy to create a palletizing program
 - Motion optimization of a program



Bag Palletizing

FANUC Robot M-4101B/140H, 160, 300, 450

Operating space (M-410*i*B/140H)



Specifications

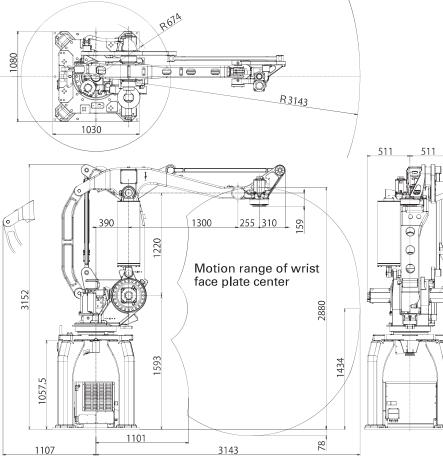
ltem		Specifications	
		M-410 <i>i</i> B/140H	
Туре		ArticulatedType	
Controlled axes		5 axes (J1,J2,J3,J4,J5)	
Reach		2.85 m	
Installation		Floor	
	J1 axis rotation	360° (140°/s)	6.28 rad (2.44 rad/s)
Motion range	J2 axis rotation	155° (115°/s)	2.71 rad (2.01 rad/s)
(Maximum speed)	J3 axis rotation	112° (135°/s)	1.95 rad (2.36 rad/s)
(Note1)	J4 axis wrist swing(Note2)	20° (135°/s)	0.35 rad (2.36 rad/s)
	J5 axis wrist rotation	720° (420°/s)	12.57 rad (7.33 rad/s)
Max. load capacity	at wrist	Max. 140kg	
Max. load capacity at J2 base		550kg	
Max. load capacity at J3 arm (Note3)		140kg	
Allowable load	J4 axis		ո² 1500 kgf • cm • s²
inertia at wrist	J5 axis	53 kg ∙ m	1^2 540 kgf • cm • s ²
Throughput (Note4	1)	1900 cycles/hour	
Drive method		Electric servo drive by AC servo motor	
Repeatability		± 0.2 mm	
Mass (Note5)		1,200 kg	
Installation environment			e : 0~45°C ess (No dew, nor frost allowed) 6RH or less (within one month)
		Vibration : 0.5G or less	

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one.

Note 2) The wrist interface is always toward to downward. The angle is variable up to 20 degrees width. Note 3) Max. payload capacity at wrist are changed by wrist load.

Note 4) With 45kg payload, the horizontal range is 2000mm and vertical one is 400mm. (with fan option) Note 5) Without controller

Operating space (M-410iB/160, M-410iB/300)

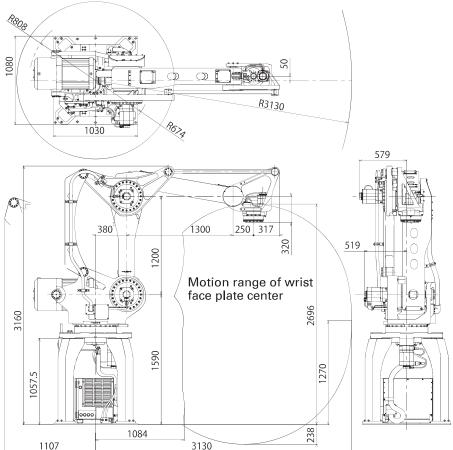


Specifications

ltem		Specifications		
		M-410 <i>i</i> B/160	M-410 <i>i</i> B/300	
Туре		Articulated Type		
Controlled axes		4 axes (J1,J2,J3,J4)		
Reach		3.14m		
Installation		Floor		
Motion range (Maximum speed) (Note1)	J1 axis rotation	360°(130°/s) 6.28 rad (2.27 rad/s)	360°(85°/s) 6.28 rad (1.48 rad/s)	
	J2 axis rotation	144°(130°/s) 2.51 rad (2.27 rad/s)	144°(90°/s) 2.51 rad (1.57 rad/s)	
	J3 axis rotation	136°(135°/s) 2.37 rad (2.36 rad/s)	136°(100°/s) 2.37 rad (1.75 rad/s)	
	J4 axis rotation	540°(300°/s) 9.42 rad (5.24 rad/s)	540°(190°/s) 9.42 rad (3.32 rad/s)	
Max. load capacity at wrist		Max.160 kg	Max.300 kg	
Allowable load in	ertia at wrist	78 kg \cdot m ² 800 kgf \cdot cm \cdot s ²	137 kg \cdot m ² 1400 kgf \cdot cm \cdot s ²	
Throughput (Note2)		1500 cycles/hour	1000 cycles/hour	
Drive method		Electric servo drive by AC servo motor		
Repeatability		± 0.5 mm		
Mass (Note3)		1940 kg		
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 : 0.5G or less		

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one. Note 2) With maximum payload, the horizontal range is 2000mm and vertical one is 400mm. Note 3) Controller mass (120kg) is included.

Operating space ($M-410\dot{1}B/450$)



Specifications

Туре
Controlled axes
Reach
Installation

Motion range (Maximum speed) (Note1)

Max. load capacity Allowable load ine Throughput (Note2 Drive method Repeatability Mass (Note3)

Installatio

Note 1) In case of short distance motion, the axis speed doesn't reach maximum one. Note 2) With maximum payload, the horizontal range is 2000mm and vertical one is 400mm. Note 3) Controller mass (120kg) is included.

Item		Specifications	
		M-410 <i>i</i> B/450	
		Articulated Type	
		4 axes (J1,J2,J3,J4)	
		3.13m	
		Floor	
) -	J1 axis rotation	360°(70°/s) 6.28 rad (1.22 rad/s)	
	J2 axis rotation	145°(70°/s) 2.53 rad (1.22 rad/s)	
	J3 axis rotation	135°(70°/s) 2.36 rad (1.22 rad/s)	
	J4 axis rotation	540°(180°/s) 9.42 rad (3.14 rad/s)	
y at wrist		Max.450 kg	
ertia at wrist		196 kg • m ² 2000 kgf • cm • s ²	
2)		700 cycles/hour	
		Electric servo drive by AC servo motor	
		± 0.5 mm	
		2430 kg	
n 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 : 0.5G or less	