

FANUC Robot M-3iA

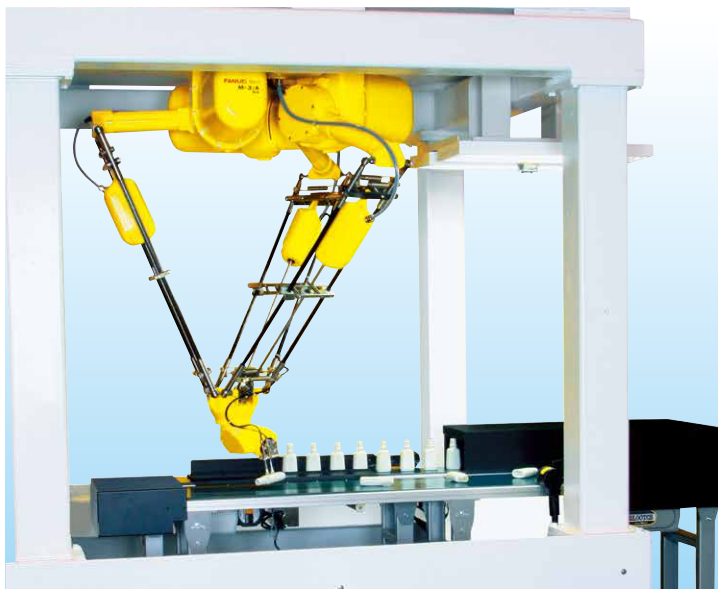


FEATURES

FANUC Robot M-3iA is a large-sized parallel link robot for high speed picking and assembly. The exclusive 6 axes type of parallel link robot expanded robotization of transferring and assembling application.

- Three models are available to meet a variety of applications.
 - FANUC Robot M-3iA/6S
Total 4 axes robot including single axis rotation at wrist. The maximum payload is 8kg (option), suitable for high speed arranging and handling of multi work pieces at the same time on the conveyor.
 - FANUC Robot M-3iA/6A
Total 6 axes robot including three rotation axes at wrist. This model can change wrist direction freely and suitable for assembling application.
 - FANUC Robot M-3iA/12H
Total 3 axes and 12kg payload robot without rotation axes at wrist. This model is suitable for high speed picking of plenty work pieces on the conveyor.
- IP67 of enclosed mechanical unit realized reliable water and dust proof ability.
- Food adaptation option is available that adopts suitable material, high durability surface treatment and food grade lubricant. It will progress robotization of food market.
- Various intelligent functions are available, such as iRVision (integrated vision) and iRPickTool.

Application Examples



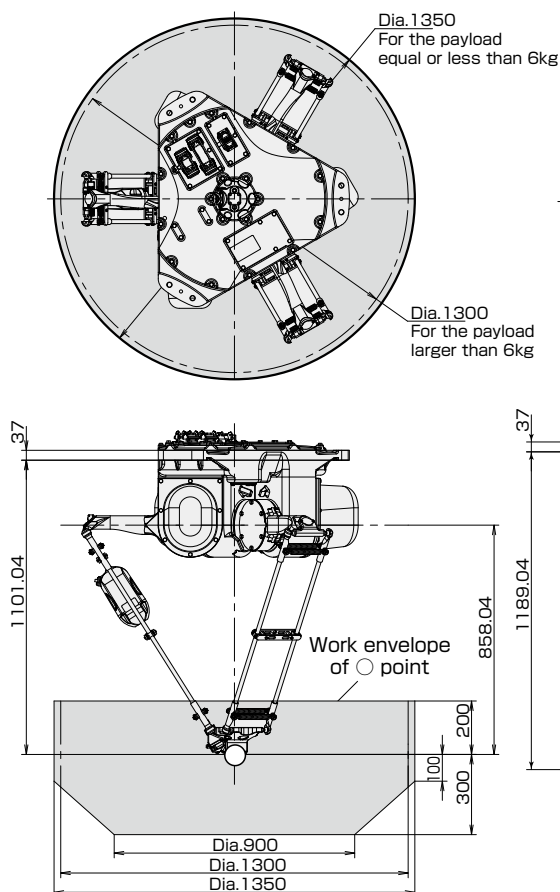
Standing the bottles by M-3iA/6A



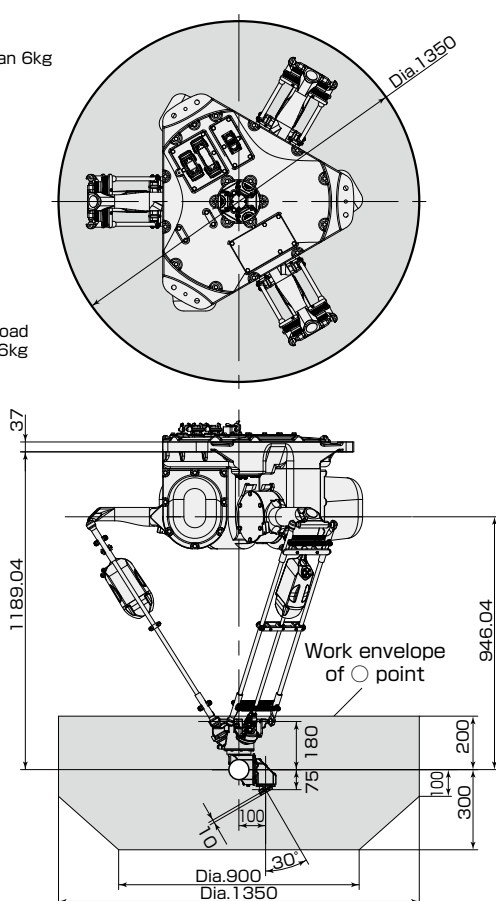
High speed arranging the foods by M-3iA/6S

Operating space

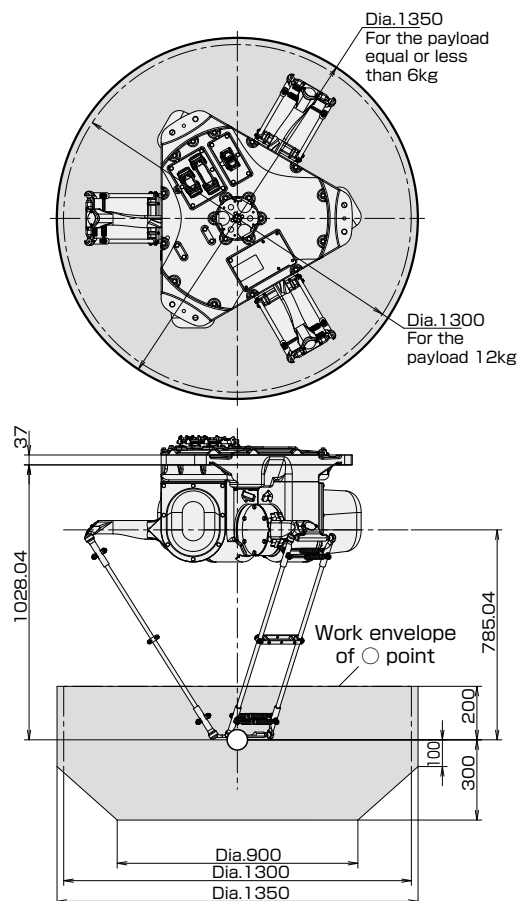
M-3iA/6S



M-3iA/6A



M-3iA/12H



Specifications

Model	M-3iA/6S	M-3iA/6A	M-3iA/12H
Type	Parallel link mechanism		
Controlled axes	4 axes (J1, J2, J3, J4)	6axes (J1, J2, J3, J4, J5, J6)	3axes (J1, J2, J3)
Installation	Ceiling mount		
Motion range	Diameter 1,350 mm, height 500 mm Note 4)		
(Maximum speed) Note 1)	J1-J3	720° (2000°/s) 12.57 rad (34.90 rad/s)	—
	J4	720° (4000°/s) 12.57 rad (69.81 rad/s)	—
	J5	300° (2000°/s) 5.24 rad (34.90 rad/s)	—
	J6	720° (2000°/s) 12.57 rad (34.90 rad/s)	—
Max.payload at wrist	6 kg (8 kg with an option)	6 kg	12 kg
Repeatability Note 2)	±0.03 mm		
Drive method	Electric servo drive by AC servo motor		
Mass Note 3)	160 kg	175 kg	155 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 : 4.9m/s ² (0.5G) or less		

Note 1) During short distance motions, the axis speed doesn't reach maximum one.

Note 2) Compliant with ISO9283.

Note 3) Without controller.

Note 4) For M-3iA/6S and M-3iA/12H, in case the payload is larger than 6 kg, there is a limitation on the work envelope.

FANUC CORPORATION

•Headquarters Oshino-mura, Yamanashi 401-0597, Japan
Phone: 81-555-84-5555 Fax: 81-555-84-5512 <http://www.fanuc.co.jp>

•Overseas Affiliated Companies
FANUC America Corporation
FANUC Europe Corporation, S.A.
SHANGHAI-FANUC Robotics CO., LTD.
KOREA FANUC CORPORATION
TAIWAN FANUC CORPORATION
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PT. FANUC INDONESIA
FANUC OCEANIA PTY. LIMITED
FANUC SOUTH AFRICA (PROPRIETARY) LIMITED

3900 West Hamlin Road, Rochester Hills, MI 48309-3253, U.S.A.
Zone Industrielle, L-6468 Echternach, Grand-Duché de Luxembourg
No. 1500 Fulian Road, Baoshan Area, Shanghai, China
101, Wanam-ro(st), Seongsan-gu, Changwon-si, Gyeongsangnam-do, 642-290 Republic of Korea
No.10, 16th Road, Taichung Industrial Park, Taichung, Taiwan
41-A, Electronics City, Bangalore, 560 100, India
No.1 Teban Gardens Crescent, Singapore 608919, Singapore
1301 Pattanakarn Road, Kwaeng Suanluang, Khet Suanluang, Bangkok 10250 Thailand
No.32, Jalan Pengacara U1/48, Temasya Industrial Park, Section U1, Glenmarie,
40150 Shah Alam, Selangor Darul Ehsan, Malaysia
JL. Boulevard Bukit Gading Raya Blok R, Jakarta 14240 Indonesia
10 Healey Circuit, Huntingwood, NSW 2148, Australia
17 Loper Ave. Aeroport Industrial Ests. Spartan Ext.2 P.O.Box 219, Isando 1600, Republic of South Africa

Phone: 1-248-377-7000 Fax: 1-855-774-7051
Phone: 352-727777-1 Fax: 352-727777-403
Phone: 86-21-5032-7700 Fax: 86-21-5032-7711
Phone: 82-55-278-1200 Fax: 82-55-284-9826
Phone: 886-4-2359-0522 Fax: 886-4-2359-0771
Phone: 91-80-2852-0057 Fax: 91-80-2852-0051
Phone: 65-6567-8566 Fax: 65-6566-5937
Phone: 66-2-714-6111 Fax: 66-2-714-6120

Phone: 60-3-7628-0110 Fax: 60-3-7628-0220
Phone: 62-21-4584-7285 Fax: 62-21-4584-7288
Phone: 61-2-8822-4600 Fax: 61-2-8822-4666
Phone: 27-11-392-3610 Fax: 27-11-392-3615

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