

THE FACTORY AUTOMATION COMPANY

**FANUC**

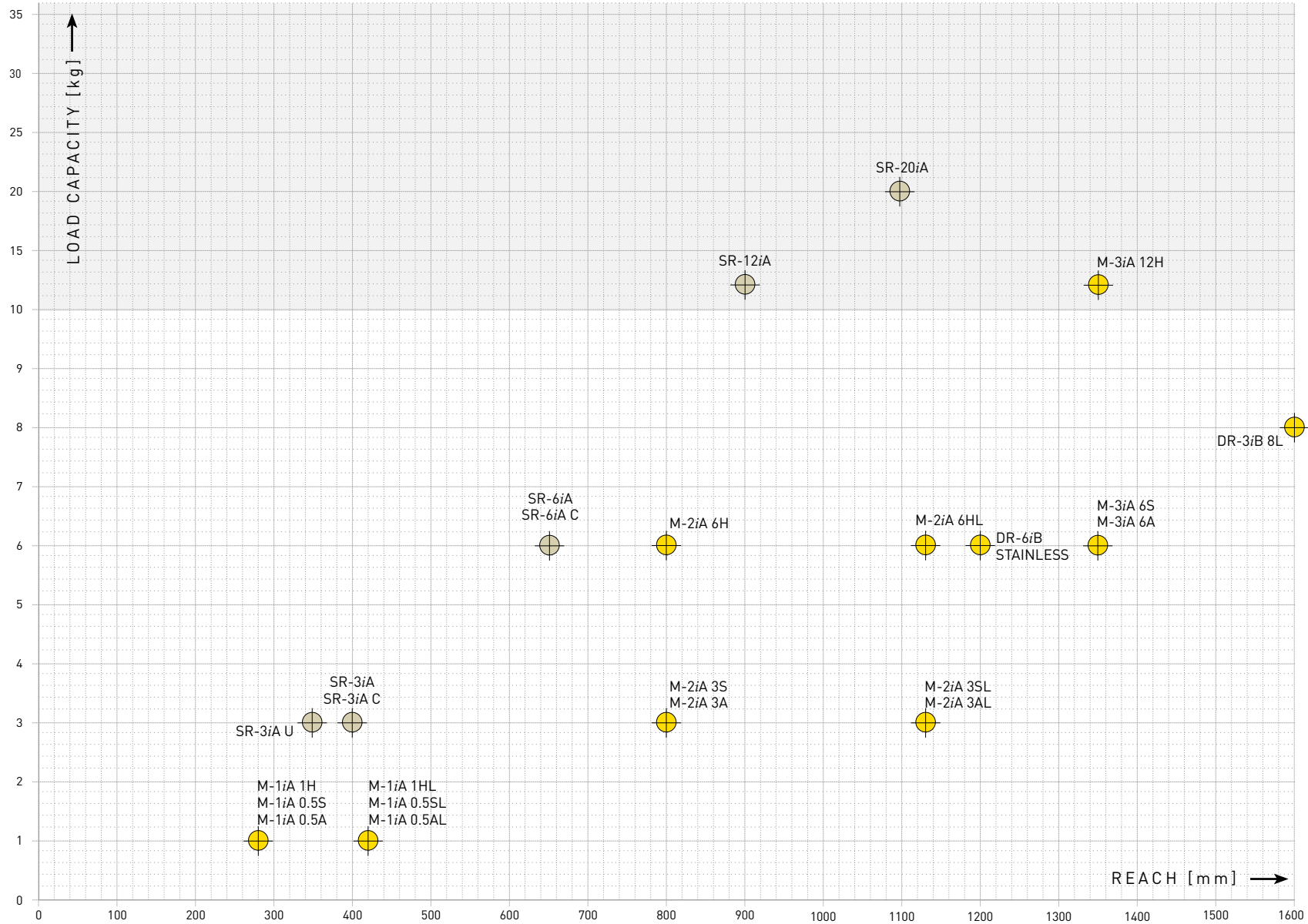
# Robots

Product overview



# FIND YOUR

# DELTA ROBOT AND SCARA ROBOT



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# M-1 Series



Max. load capacity at wrist: **1 kg**



Max. reach: **420 mm**

## Available robot versions:

M-1iA/1H 3-axis

M-1iA/0.5S 4-axis

M-1iA/0.5A 6-axis

M-1iA/1HL 3-axis

M-1iA/0.5SL 4-axis

M-1iA/0.5AL 6-axis



M-1iA/0.5A



Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )	Average Power consumption (kW)	Protection				
Series	Version	Type	Version	Cabinet type										J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					Body standard/ optional	Wrist & J3 arm standard/ optional			
M-1	iA	1H	●	-	●	○	-	-	1	280	3	± 0.02	18 <sup>(*12)</sup>	∅ 280 x 100 <sup>(*13)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	IP20	IP20
M-1	iA	0.5S	●	-	●	○	-	-	0.5 (1)	280	4	± 0.02	20 <sup>(*12)</sup>	∅ 280 x 100 <sup>(*13)</sup>	720	-	-	-	-	-	3000	-	-	-	-	-	-	-	-	-	-	0.2	IP20	IP20
M-1	iA	0.5A	●	-	●	○	-	-	0.5 (1)	280	6	± 0.02	23 <sup>(*12)</sup>	∅ 280 x 100 <sup>(*13)</sup>	720	300	720	-	-	-	1440	1440	1440	-	-	-	-	-	-	-	-	0.2	IP20	IP20
M-1	iA	1HL	●	-	●	○	-	-	1	420	3	± 0.03	21 <sup>(*12)</sup>	∅ 420 x 150 <sup>(*13)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	IP20	IP20
M-1	iA	0.5SL	●	-	●	○	-	-	0.5 (1)	420	4	± 0.03	23 <sup>(*12)</sup>	∅ 420 x 150 <sup>(*13)</sup>	720	-	-	-	-	-	3000	-	-	-	-	-	-	-	-	-	-	0.2	IP20	IP20
M-1	iA	0.5AL	●	-	●	○	-	-	0.5 (1)	420	6	± 0.03	26 <sup>(*12)</sup>	∅ 420 x 150 <sup>(*13)</sup>	720	300	720	-	-	-	1440	1440	1440	-	-	-	-	-	-	-	-	0.2	IP20	IP20

● standard ○ on request - not available ( ) with hardware and/or software option \*12) with stand \*13) ∅ in mm by height in mm \*14) refer to the wrist load diagram

# M-2 Series



Max. load capacity at wrist: **6 kg**



Max. reach: **1130 mm**



M-2iA/3S

## Available robot versions:

M-2iA/3S	4-axis
M-2iA/3SL	4-axis
M-2iA/3A	6-axis
M-2iA/3AL	6-axis
M-2iA/6H	3-axis
M-2iA/6HL	3-axis



Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )	Average Power consumption (kW)	Protection	
Series	Version	Type	Version	Cabinet type										J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					Body standard/ optional	Wrist & J3 arm standard/ optional
				R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet																						
M-2	iA	3S	●	-	●	○	○	-	3	800	4	± 0.1	120	ø 800 x 300 <sup>(*13)</sup>		720	-	-	-	-	-	3500	-	-	*14	2.5	IP67/IP69K	IP69K			
M-2	iA	3A	●	-	●	○	○	-	3	800	6	± 0.1	140	ø 800 x 300 <sup>(*13)</sup>		720	300	720	-	-	-	1700	1700	1700	*14	2.5	IP67/IP69K	IP69K			
M-2	iA	3SL	●	-	●	○	○	-	3	1130	4	± 0.1	120	ø 1130 x 400 <sup>(*13)</sup>		720	-	-	-	-	-	3500	-	-	*14	2.5	IP67/IP69K	IP69K			
M-2	iA	3AL	●	-	●	○	○	-	3	1130	6	± 0.1	140	ø 1130 x 400 <sup>(*13)</sup>		720	300	720	-	-	-	1700	1700	1700	*14	2.5	IP67/IP69K	IP69K			
M-2	iA	6H	●	-	●	○	○	-	6	800	3	± 0.1	115	ø 800 x 300 <sup>(*13)</sup>		-	-	-	-	-	-	-	-	-	*14	2.5	IP67/IP69K	IP69K			
M-2	iA	6HL	●	-	●	○	○	-	6	1130	3	± 0.1	115	ø 1130 x 400 <sup>(*13)</sup>		-	-	-	-	-	-	-	-	-	*14	2.5	IP67/IP69K	IP69K			

● standard ○ on request - not available ( ) with hardware and/or software option \*13) ø in mm by height in mm \*14) refer to the wrist load diagram

# M-3 Series



Max. load capacity at wrist: **12 kg**



Max. reach: **1350 mm**

## Available robot versions:

M-3iA/6S 4-axis

M-3iA/6A 6-axis

M-3iA/12H 3-axis



M-3iA/6S



Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range (°)						Maximum speed (°/s)						J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )	Average Power consumption (kW)	Protection	
Series	Version	Type	Version	Cabinet type										J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					Body standard/ optional	Wrist & J3 arm standard/ optional
				R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet																							
M-3	iA	6S	●	-	●	○	○	-	6 (8)	1350	4	± 0.1	160	ø 1350 x 500 (*13)			720	-	-	-	-	-	4000	-	-	*14)			2.5	IP67	IP67
M-3	iA	6A	●	-	●	○	○	-	6	1350	6	± 0.1	175	ø 1350 x 500 (*13)			720	300	720	-	-	-	4000	2000	2000	*14)			2.5	IP67	IP67
M-3	iA	12H	●	-	●	○	○	-	12	1350	3	± 0.1	155	ø 1350 x 500 (*13)			-	-	-	-	-	-	-	-	-	*14)			2.5	IP67	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*13) ø in mm by height in mm \*14) refer to the wrist load diagramm

# DR-3 Series



Max. load capacity at wrist: **8 kg**



Max. reach: **1600 mm**

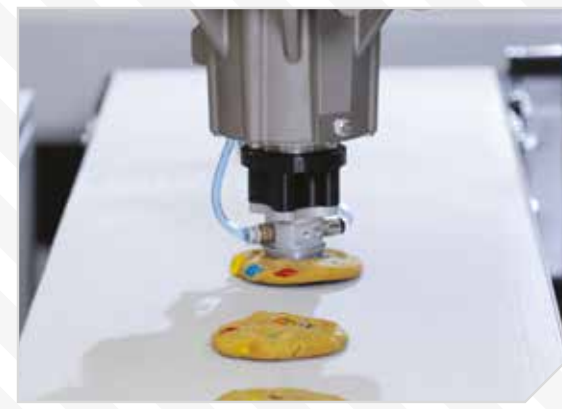
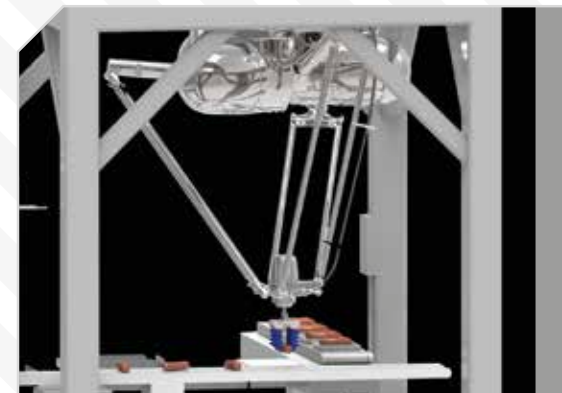
## Available robot versions:

DR-3iB/6 STAINLESS    Stainless

DR-3iB/8L                4-axis



DR-3iB/8L



Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range (°)						Max. linear speed (mm/s)			Maximum speed (°/s)			J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )	Average Power consumption (kW)	Protection	
Series	Version	Type	Version		Cabinet type									J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )
			DR-3	iB	6 (STAINLESS)	●	-	●	-	○	-	6	1200													4	± 0.03**	250	ø 1200 x 450 (*13)		
DR-3	iB	8L	●	-	●	-	○	-	8	1600	4	± 0.03**	170	ø 1600 x 500 (*13)			720	-	-	10000			2000	-	-	-- / 0.2	*14		2.5	IP69K	IP69K

● standard    ○ on request    - not available    ( ) with hardware and/or software option    \*13) ø in mm by height in mm    \*14) refer to the wrist load diagram

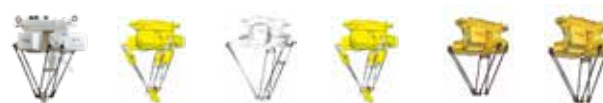


ROBOT SERIES

M-1



M-2



M-3



DR-3



Version			iA						iA						iA			iB	
Type			1H	0.5S	0.5A	1HL	0.5SL	0.5AL	3S	3A	3SL	3AL	6H	6HL	6S	6A	12H	6	8L
CONTROLLER	Controller Version	R-30/iB Plus	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-	•
	Mate Cabinet		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	-	○
	A-Cabinet		-	-	-	-	-	-	○	○	○	○	○	○	○	○	○	•	○
	B-Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max Load Capacity at wrist (kg)			1	0.5 (1)	0.5 (1)	1	0.5 (1)	0.5 (1)	3	3	3	3	6	6	6(8)	6	12	6	8
Reach (mm)			280	280	280	420	420	420	800	800	1130	1130	800	1130	1350	1350	1350	1200	1600
Controlled axes			3	4	6	3	4	6	4	6	4	6	3	3	4	6	3	4	4
Repeatability (mm)			± 0.02	± 0.02	± 0.02	± 0.03	± 0.03	± 0.03	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 0.03**	± 0.03**
Mechanical weight (kg)			18 (*12)	20 (*12)	23 (*12)	21 (*12)	23 (*12)	26 (*12)	120	140	120	140	115	115	160	175	155	250	170
MOTION RANGE (°)	J1																		
	J2		∅ 280x100 (*13)	∅ 280x100 (*13)	∅ 280x100 (*13)	∅ 420x150 (*13)	∅ 420x150 (*13)	∅ 420x150 (*13)	∅ 800x300 (*13)	∅ 800x300 (*13)	∅ 1130x400 (*13)	∅ 1130x400 (*13)	∅ 800x300 (*13)	∅ 1130x400 (*13)	∅ 1350x500 (*13)	∅ 1350x500 (*13)	∅ 1350x500 (*13)	∅ 1200x450 (*13)	∅ 1600x500 (*13)
	J3																		
	J4		-	720	720	-	720	720	720	720	720	720	-	-	720	720	-	720	720
	J5		-	-	300	-	-	300	-	300	-	300	-	-	-	300	-	-	-
	J6		-	-	720	-	-	720	-	720	-	720	-	-	-	720	-	-	-
MAXIMUM SPEED (°/S)	J1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	J2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5500 mm/sec	10000 mm/sec
	J3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	J4		-	3000	1440	-	3000	1440	3500	1700	3500	1700	-	-	4000	4000	-	1714	2000
	J5		-	-	1440	-	-	1440	-	1700	-	1700	-	-	-	2000	-	-	-
	J6		-	-	1440	-	-	1440	-	1700	-	1700	-	-	-	2000	-	-	-
J4 Moment/Inertia (Nm/kgm²)			*14)						*14)						*14)			-- / 0.025 (0.06)	-- / 0.2
J5 Moment/Inertia (Nm/kgm²)			*14)						*14)						*14)			*14)	*14)
J6 Moment/Inertia (Nm/kgm²)			*14)						*14)						*14)			*14)	*14)
Average power consumption [Kw]			0.2	0.2	0.2	0.2	0.2	0.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
PROTECTION	Body Standard/optional		IP20	IP20	IP20	IP20	IP20	IP20	IP67 / IP69K	IP67 / IP69K	IP67 / IP69K	IP67 / IP69K	IP67 / IP69K	IP67 / IP69K	IP67	IP67	IP67	IP69K	IP69K
	Wrist and J3 Arm Standard/optional		IP20	IP20	IP20	IP20	IP20	IP20	IP69K	IP69K	IP69K	IP69K	IP69K	IP69K	IP67	IP67	IP67	IP69K	IP69K

• standard ○ on request - not available ( ) with hardware and/or software option \*12) with stand \*13) ∅ in mm by height in mm \*14) refer to the wrist load diagram \*\* Based on ISO9283