

THE FACTORY AUTOMATION COMPANY

**FANUC**

# Robots

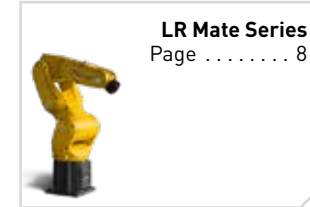
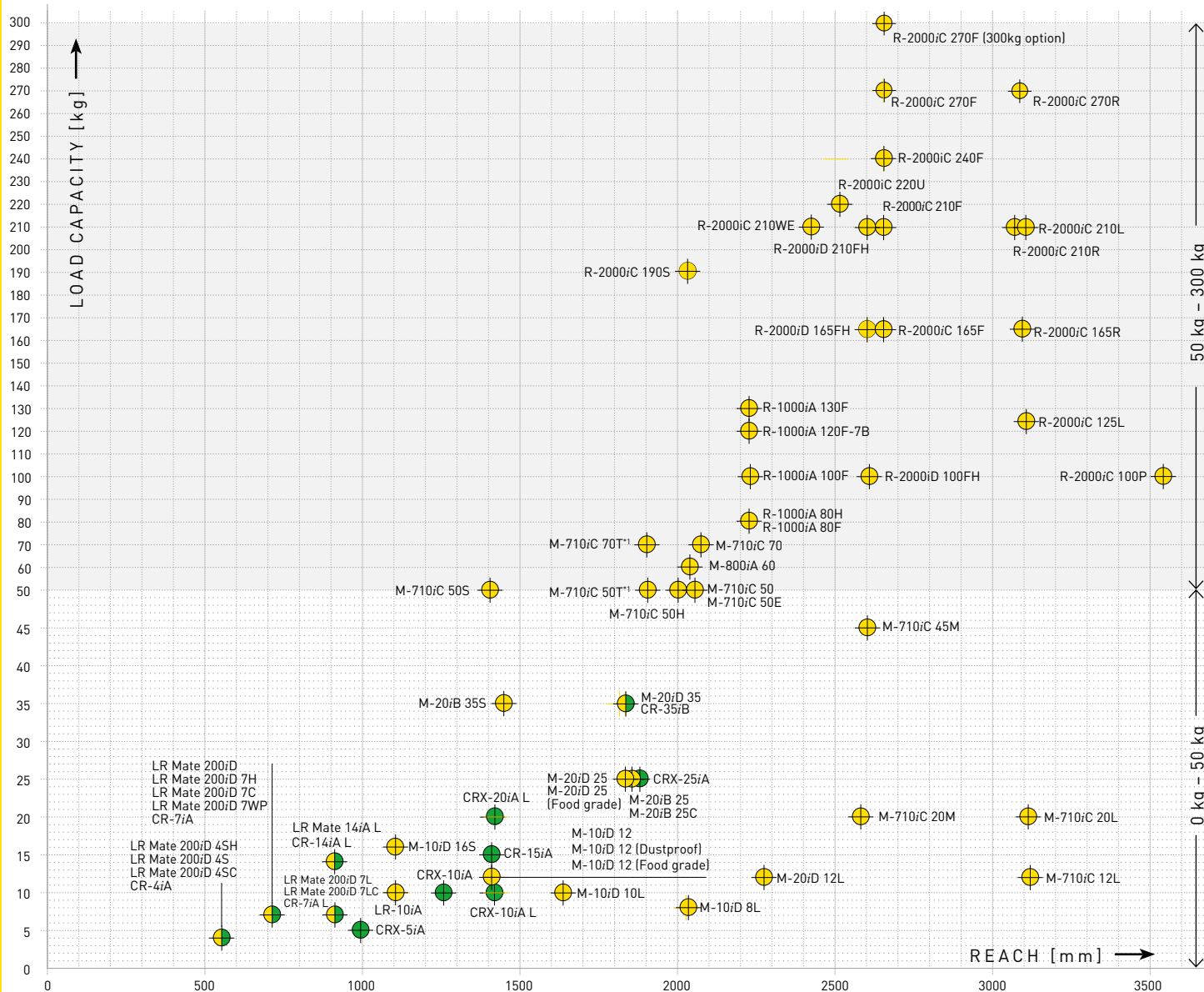
Product overview



# FIND YOUR

# ARTICULATED ROBOT

LR Mate | LR-10 | M-10 | M-20 | M-710 | M-800 | R-1000 | R-2000 | CR | CRX



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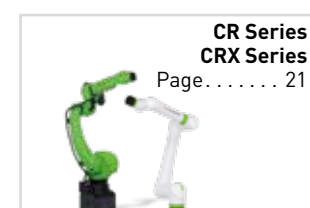
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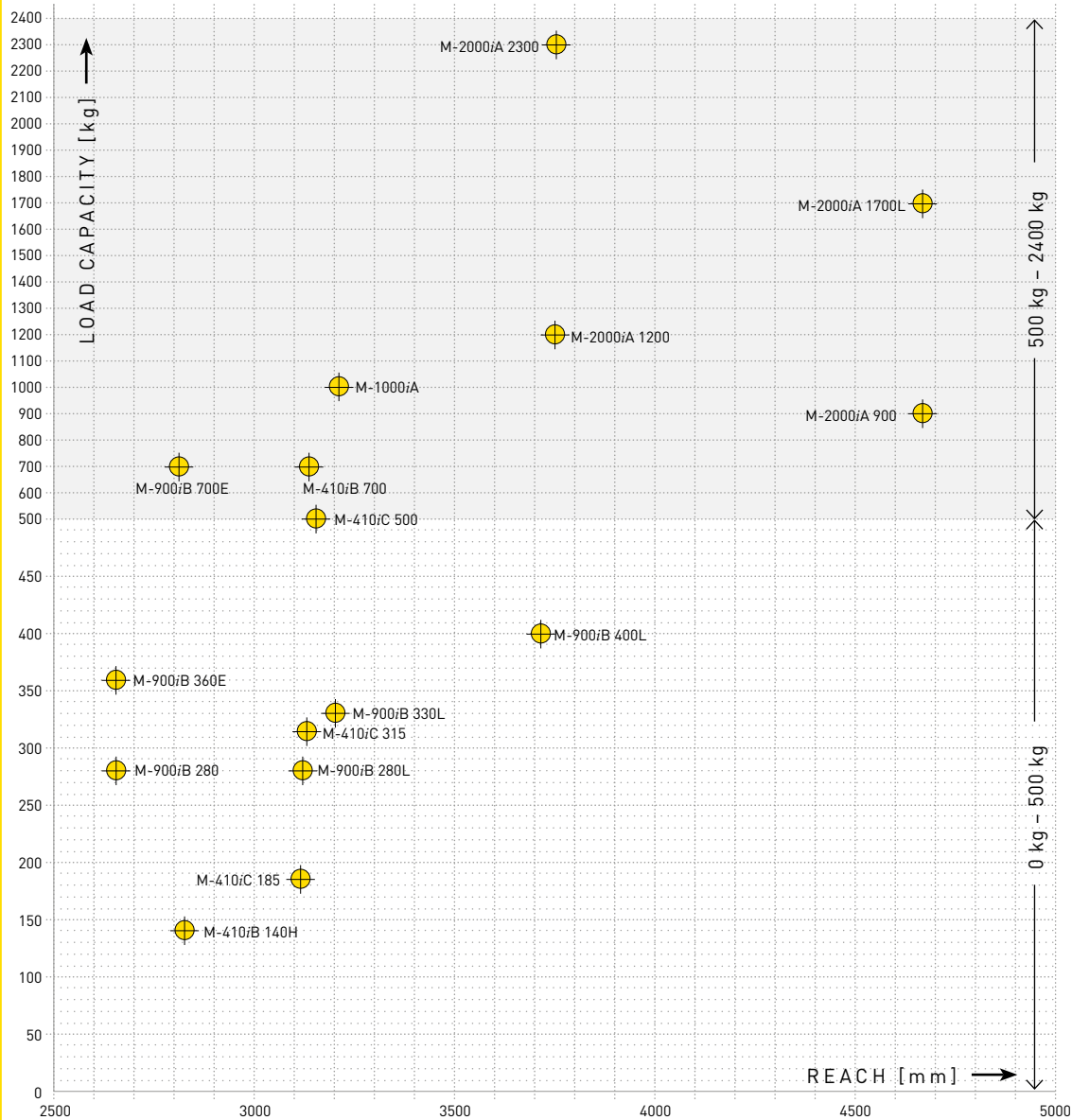
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\*1) depending on rail specification

# FIND YOUR

# ARTICULATED ROBOT

M-410 | M-900 | M-1000 | M-2000



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# LR Mate Series



Max. load capacity at wrist: **14 kg**



Max. reach: **911 mm**



LR Mate 200iD

## Available robot versions:

LR Mate 200iD/4SH	5-axis
LR Mate 200iD/4S	Standard model
LR Mate 200iD/4SC	Clean Room, Food grade lubricant, Dry Room
LR Mate 200iD/7H	5-axis
LR Mate 200iD/7C	Clean Room, Food grade lubricant
LR Mate 200iD/7WP	Washproof
LR Mate 200iD	Standard model
LR Mate 200iD/7L	Standard model
LR Mate 200iD/7LC	Clean Room, Food grade lubricant
LR Mate 200iD/14L	Standard model



Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s] *17						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> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )	Average power consumption (kW)	Body standard/ optional	Wrist & J3 arm standard/ optional
			R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet																											
LR Mate 200	iD	4SH	●	-	○	●	-	-	4	550	5	± 0.013**	19	360	230	402	240	720	-	460	460	520	560	1500	-	8.86/0.2	4.0/0.046 (5.5/0.083)	-	0.5	IP67	IP67				
LR Mate 200	iD	4S	●	-	○	●	-	-	4	550	6	± 0.01**	20	360	230	402	380	240	720	460	460	520	560	900	8.86/0.2	8.86/0.2	4.9/0.067	0.5	IP67	IP67					
LR Mate 200	iD	4SC	●	-	○	●	-	-	4	550	6	± 0.013**	20	360	230	402	380	236	720	460	460	520	560	900	8.86/0.2	8.86/0.2	4.9/0.067	0.5	IP67	IP67					
LR Mate 200	iD	7H	●	-	○	●	-	-	7	717	5	± 0.018**	24	360	245	420	250	720	-	450	380	520	545	1500	-	16.6/0.47	4.0/0.046 (5.5/0.15)	-	0.5	IP67/IP69K	IP67/IP69K				
LR Mate 200	iD	7C	●	-	○	●	-	-	7	717	6	± 0.018**	25	360	245	420	380	250	720	450	380	520	550	1000	16.6/0.47	16.6/0.47	9.4/0.15	0.5	IP67	IP67					
LR Mate 200	iD	7WP	●	-	-	●	-	-	7	717	6	± 0.018**	25	360	245	420	380	250	720	450	380	520	550	1000	16.6/0.47	16.6/0.47	9.4/0.15	0.5	IP67/IP69K	IP67/IP69K					
LR Mate 200	iD		●	-	○	●	-	-	7	717	6	± 0.01**	25	360	245	420	380	250	720	450	380	520	545	1000	16.6/0.47	16.6/0.47	9.4/0.15	0.5	IP67/IP69K	IP67/IP69K					
LR Mate 200	iD	7L	●	-	○	●	-	-	7	911	6	± 0.01**	27	360	245	430	380	250	720	370	310	410	550	1000	16.6/0.47	16.6/0.47	9.4/0.15	0.5	IP67/IP69K	IP67/IP69K					
LR Mate 200	iD	7LC	●	-	○	●	-	-	7	911	6	± 0.018**	27	360	245	430	380	250	720	370	310	410	550	1000	16.6/0.47	16.6/0.47	9.4/0.15	0.5	IP67	IP67					
LR Mate 200	iD	14L	●	-	○	●	-	-	14	911	6	± 0.01**	27	360	245	430	380	250	720	120	61	58	400	400	31.0/0.66	31.0/0.66	13.4/0.30	0.5	IP67/IP69K	IP67/IP69K					

● standard ○ on request - not available [ ] with hardware and/or software option \*17 [only for LR Mate 200iD/14L: Max. lineare speed 500 mm/sec \*\* Based on ISO9283

# LR-10 Series



Max. load capacity at wrist: **10/13 kg** \*3



Max. reach: **1101 mm**

## Available robot versions:

LR-10iA/10

Standard model, Dry Room



LR-10iA/10



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																							
LR-10	iA	10	●	-	-	●	-	-	10/13*3	1101	6	± 0.01 **	46	370	235	421	380	250	720	300	230	340	500	400	800	21.0/0.77	21.0/0.77	10.0/0.28	-	IP67	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*3) optional high payload mode = max 890mm operating space \*\* Based on ISO9283

# M-10 Series



Max. load capacity  
at wrist: **16 kg**



Max. reach:  
**2028 mm**

## Available robot versions:

M-10iD/8L, /10L	Standard model
M-10iD/12	Standard model
M-10iD/12 (Dustproof)	Dustproof
M-10iD/12 (Food grade)	Food grade lubricant
M-10iD/16S	Standard model



M-10iD/12

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-10	iD	8L	●	-	-	○	●	○	8	2032	6	± 0.03**	180	340 (370)	235	455	380	280 (360) <sup>*21</sup>	540 (900) <sup>*21</sup>	210	210	220	430	450	720	16.1/0.63	16.1/0.63	5.9/0.061	1	IP54	IP67
M-10	iD	10L	●	-	-	○	●	○	10	1636	6	± 0.03**	150	340 (370)	235	455	380	280 (360) <sup>*21</sup>	540 (900) <sup>*21</sup>	260	240	260	430	450	720	22.0/0.65	22.0/0.65	9.8/0.17	1	IP54/IP65	IP67
M-10	iD	12	●	-	-	○	●	○	12	1441	6	± 0.02**	145	340 (370)	235	455	380	280 (360) <sup>*21</sup>	540 (900) <sup>*21</sup>	260	240	260	430	450	720	26.0/0.90	26.0/0.90	11.0/0.30	1	IP54/IP65	IP67
M-10	iD	12 <sup>*18)</sup>	●	-	-	○	●	○	12	1441	6	± 0.02**	145	340 (370)	235	455	380	280 (360) <sup>*21</sup>	540 (900) <sup>*21</sup>	260	240	260	430	450	720	26.0/0.90	26.0/0.90	11.0/0.30	1	IP67	IP67
M-10	iD	12 <sup>*19)</sup>	●	-	-	○	●	○	12	1441	6	± 0.02**	145	340 (370)	235	455	380	280 (360) <sup>*21</sup>	540 (900) <sup>*21</sup>	260	240	260	430	450	720	26.0/0.90	26.0/0.90	11.0/0.30	1	IP65	IP67
M-10	iD	16S	●	-	-	○	●	○	16	1103	6	± 0.02**	140	340 (370)	235	340	380	280 (360) <sup>*21</sup>	540 (900) <sup>*21</sup>	290	270	270	430	450	730	26.0/0.90	26.0/0.90	11.0/0.30	1	IP54 /IP65	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*18) Dustproof \*19) Food grade \*21) Extended range for external cable type \*\* Based on ISO9283

# M-20 Series



Max. load capacity  
at wrist: **35 kg**



Max. reach:  
**2272 mm**

## Available robot versions:

M-20iD/12L	Standard model
M-20iB/25	Fully enclosed
M-20iB/25C	Clean Room, Food grade lubricant, Dry room
M-20iB/35S	Fully enclosed
M-20iD/25	Standard model
M-20iD/25 (Food grade)	Food grade lubricant
M-20iD/35	Standard model



M-20iD/12L



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-20	iD	12L	●	-	-	○	●	●	12	2272	6	± 0.03**	250	340 [370]	260	475	400	280 [360] <sup>*21</sup>	540 [900] <sup>*21</sup>	210	210	265	420	450	720	22.0/0.65	22.0/0.65	9.8/0.17	1	IP54/IP65	IP67
M-20	iB	25	●	-	-	○	●	○	25	1853	6	± 0.02**	210	340 [360]	240	303	400	290	540	205	205	260	415	415	880	51/2.2	51/2.2	31/1.2	1	IP67	IP67
M-20	iD	25	●	-	-	○	●	○	25	1831	6	± 0.02**	250	340 [370]	260	458	400	280 [360] <sup>*21</sup>	540 [900] <sup>*21</sup>	210	210	265	420	420	720	52.0/2.4	52.0/2.4	32.0/1.2	1	IP54/IP65	IP67
M-20	iD	25 <sup>*19)</sup>	●	-	-	○	●	○	25	1831	6	± 0.02**	250	340 [370]	260	458	400	280 [360] <sup>*21</sup>	540 [900] <sup>*21</sup>	210	210	265	420	420	720	52.0/2.4	52.0/2.4	32.0/1.2	1	IP65	IP67
M-20	iB	25C	●	-	-	○	●	○	25	1853	6	± 0.023**	210	340 [360]	240	303	400	290	540	205	205	260	415	415	880	51/2.2	51 / 2.2	31 / 1.2	1	IP67	IP67
M-20	iB	35S	●	-	-	-	●	○	35	1445	6	± 0.02**	205	340 [360]	240	301.5	400	260	540	205	205	260	415	415	880	51 / 2.2	51 / 2.2	31 / 1.2	1	IP67	IP67
M-20	iD	35	●	-	-	○	●	○	35	1831	6	± 0.03**	250	340 [370]	260	458	400	280 [360] <sup>*21</sup>	540 [900] <sup>*21</sup>	180	180	200	350	350	400	110.0/4.0	110.0/4.0	60.0/1.5	1	IP54/IP65	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*19) Food grade \*21) Extended range for external cable type \*\* Based on ISO2983

# M-410 Series



Max. load capacity at wrist: **700 kg**



Max. reach: **3143 mm**



M-410iC/185

## Available robot versions:

- M-410iB/140H            5-axis
- M-410iB /700            Standard model
- M-410iC/110            Standard model
- M-410iC/185, /315, /500 Standard model



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-410	iB	140H	●	-	-	-	●	○	140	2850	5	± 0.2	1200	360	155	112	20	720	-	140	115	135	135	420	-	147	53	-	3	IP54	IP54
M-410	iC	110	●	-	-	-	●	○	110	2403	4	± 0.5	1030	370	125	140	720	-	145	130	140	420	-	-	53	-	-	3	IP54	IP54	
M-410	iC	185	●	-	-	-	●	○	185	3143	4	± 0.5	1600 (1330) <sup>*5</sup>	360	144	136	720	-	140	140	140	305	-	-	88	-	-	3	IP54	IP54	
M-410	iC	315	●	-	-	-	●	○	315	3143	4	± 0.5	1600 (1330) <sup>*5</sup>	360	144	136	720	-	90	100	110	195	-	-	155	-	-	3	IP54	IP54	
M-410	iC	500	●	-	-	-	●	○	500	3143	4	± 0.5	2410 (1910) <sup>*5</sup>	370	144	136	720	-	85	85	85	200	-	-	250	-	-	3	IP54	IP54	
M-410	iB	700	●	-	-	-	●	○	700	3143	4	± 0.5	2700	360	144	136	540	-	60	60	60	120	-	-	490	-	-	3	IP54	IP54	

● standard    ○ on request    - not available    [ ] with hardware and/or software option    \*4) Pedestal type (with controller)    \*5) Compact base type (without controller)



# M-710 Series



Max. load capacity  
at wrist: **70 kg**



Max. reach:  
**3123 mm**



M-710iD/50M

## Available robot versions:

M-710iC/12L	Hollow wrist
M-710iC/20L	Standard model
M-710iC/20M, /45M	Standard model
M-710iC/50S	Standard model
M-710iC/50H	5-axis
M-710iC/50, /70	Standard model
M-710iC/50E	Offset wrist
M-710iC/50T, /70T	Top mount
M-710iD/50M	Standard model



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-710	iC	12L	●	-	-	○	●	○	12	3123	6	± 0.09**	540	360	225	434	400	380	720	180	180	180	400	430	630	22.0/0.65	22.0/0.65	9.8/0.17	2.5	IP54/IP67	IP67
M-710	iC	20L	●	-	-	○	●	○	20	3110	6	± 0.06**	540	360	225	432	400	280	900	175	175	180	350	360	600	39.2/0.88	39.2/0.88	19.6/0.25	2.5	IP54/IP67	IP67
M-710	iC	20M	●	-	-	○	●	○	20	2582	6	± 0.06**	530	360	225	435	400	280	900	175	175	180	350	360	600	39.2/0.88	39.2/0.88	19.6/0.25	2.5	IP54/IP67	IP67
M-710	iC	45M	●	-	-	○	●	○	45	2606	6	± 0.06**	570	360	225	440	800	250	800	180	180	250	250	360	600	206/28	206/28	127/20	2.5	IP54/IP67	IP67
M-710	iC	50S	●	-	-	○	●	○	50	1359	6	± 0.04**	545	360	169	376	720	250	720	175	175	175	250	250	355	206/28	206/28	127/11	2.5	IP54/IP67	IP67
M-710	iC	50T	●	-	-	○	●	○	50	1900*1)	6	± 0.07	410	*1)	261	491	720	250	720	*1)	175	175	250	250	355	206/28	206/28	127/11	2.5	IP54/IP67	IP67
M-710	iC	50H	●	-	-	○	●	○	50	2003	5	± 0.15	540	360	225	440	234	720	-	175	175	175	175	720	-	150/6.3	68/2.5	-	2.5	IP54/IP67	IP67
M-710	iC	50	●	-	-	○	●	○	50	2050	6	± 0.03**	560	360	225	440	720	250	720	175	175	175	250	250	355	206/28	206/28	127/11	2.5	IP54/IP67	IP67
M-710	iC	50E	●	-	-	○	●	○	50	2050	6	± 0.07	560	360	225	440	720	380	720	175	175	175	250	240	340	206/28	176/10.8	98/3.3	2.5	IP54	IP67
M-710	iC	70T	●	-	-	○	●	○	70	1900*1)	6	± 0.07	410	*1)	261	491	720	250	720	*1)	120	120	225	225	225	294/28	294/28	147/11	2.5	IP54/IP67	IP67
M-710	iC	70	●	-	-	○	●	○	70	2050	6	± 0.04**	560	360	225	440	720	250	720	160	120	120	225	225	225	294/28	294/28	147/11	2.5	IP54/IP67	IP67
M-710	iD	50M	●	-	-	○	●	○	50	2606	6	± 0.06	600	370	225	440	800	250	800	180	180	180	260	260	370	215/30	215/30	130/20	2.5	IP54/IP67	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*1) depending on rail specification \*\* Based on ISO9283

# M-800 Series



Max. load capacity at wrist: **60 kg**



Max. reach: **2040 mm**

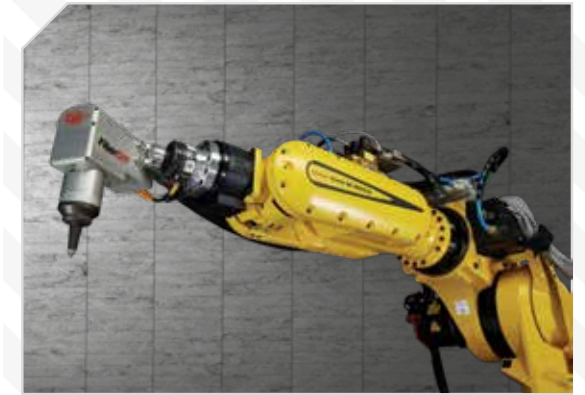
## Available robot versions:

M-800iA/60

Standard model



M-800iA/60



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-800	iA	60	●	-	-	-	●	○	60	2040	6	± 0.03**	820	370	225	340	720	250	720	150	150	150	260	260	400	210/30	210/30	130/20	2,5	-	-

● standard ○ on request - not available [ ] with hardware and/or software option \*\* Based on ISO9283

# M-900 Series



Max. load capacity at wrist: **700 kg**



Max. reach: **3704 mm**

## Available robot versions:

- M-900iB/280 High rigidity model
- M-900iB/360E, /700E Standard model
- M-900iB/280L, /330L, /400L Standard model



M-900iB/700E



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	Matte cabinet	A- cabinet																							
M-900	iB	280	●	-	-	-	●	○	280	2655	6	± 0.1**	1700	370	151	224	720	250	720	110	105	100	110	180	1960/260 (460)	1960/260 (460)	1050/160 (360)	3	IP54 /IP56	IP67	
M-900	iB	280L	●	-	-	-	●	○	280	3103	6	± 0.1**	1600	370	151	224	720	250	720	110	105	100	125	205	1700/215 (340)	1700/215 (340)	950/140 (260)	3	IP54 /IP56	IP67	
M-900	iB	330L	●	-	-	-	●	○	330	3203	6	± 0.1**	1780	370	151	164	720	250	720	100	85	85	90	85	165	2205/340	2205/340	1200/220	3	IP54 /IP56	IP67
M-900	iB	360E	●	-	-	-	●	○	360	2655	6	± 0.1**	1540	370	151	224	720	250	720	100	105	100	110	180	2330/500	2330/500	1280/360	3	IP54 /IP56	IP67	
M-900	iB	400L	●	-	-	-	-	●	400	3704	6	± 0.1**	3150	360	154	160	720	244	720	80	80	80	100	100	160	3400/1098	3400/1098	1725/444	5	IP54 /IP56	IP67
M-900	iB	700E	●	-	-	-	-	●	700	2832	6	± 0.1**	3040	360	154	160	720	244	720	80	80	80	100	100	160	5000/1098	5000/1098	2800/444	5	IP54 /IP56	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*\* Based on ISO9283

# M-1000 Series



Max. load capacity  
at wrist: **1000 kg**



Max. reach:  
**3253 mm**

## Available robot versions:

M-1000iA

Standard model



M-1000iA



Robot			Controller					Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						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> ]	J6 Moment/ Inertia [Nm/kgm <sup>2</sup> ]	Body standard/ optional	Wrist & J3 arm standard/ optional	
				R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet																								A-cabinet
M-1000	iA		●	-	-	-	●	○	1000	3253	6	± 0.1**	5300	330	145	260	720	240	720	60	50	50	70	70	85	8800/1750	8800/1750	5800/840	8	IP54	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*\* Based on ISO9283

# M-2000 Series



Max. load capacity at wrist: **2300 kg**



Max. reach: **4683 mm**

## Available robot versions:

M-2000iA/900L, /1700L Standard model

M-2000iA/1200, /2300 Standard model



M-2000iA/1700L



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-2000	iA	900L	●	-	-	-	●	○	900	4683	6	± 0.18**	9600	330	160	165	720	240	720	45	30	30	50	50	70	14700/2989	14700/2989	4900/2195	8	IP54/IP56	IP67
M-2000	iA	1200	●	-	-	-	●	○	1200 (1350)	3734	6	± 0.18**	8600	330	160	165	720	240	720	45	30 (25)	30	50	50	70	14700/2989	14700/2989	4900/2195	8	IP54/IP56	IP67
M-2000	iA	1700L	●	-	-	-	●	○	1700	4683	6	± 0.27**	12500	330	160	165	720	240	720	20	14	14	18	18	40	29400/7500	29400/7500	8820/5500	8	IP54/IP56	IP67
M-2000	iA	2300	●	-	-	-	●	○	2300	3734	6	± 0.18**	11000	330	160	165	720	240	720	20	14	14	18	18	40	29400/7500	29400/7500	8820/5500	8	IP54/IP56	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*\* Based on ISO9283

# R-1000 Series



Max. load capacity at wrist: **130 kg**



Max. reach: **2230 mm**



R-1000iA

## Available robot versions:

R-1000iA/80H	5-axis
R-1000iA/80F, /100F	Standard model
R-1000iA/120F-7B	7-axis
R-1000iA/130F	Standard model



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	J7	J1	J2	J3	J4	J5	J6	J7	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)	Body standard/ optional	Wrist & J3 arm standard/ optional
				R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet																													
R-1000	iA	80H	●	-	-	○	●	○	80	2230	5	± 0.03**	610	360	245	215	20	720	-	-	185	180	180	180	500	-	-	-/48	-/25	-	2.5	IP54/IP55	IP67			
R-1000	iA	80F	●	-	-	○	●	○	80	2230	6	± 0.03**	620	360	245	360	720	250	720	-	170	140	160	230	230	350	-	380/30	380/30	200/20	2.5	IP54 /IP56	IP67			
R-1000	iA	100F	●	-	-	○	●	○	100	2230	6	± 0.03**	665	360	245	360	720	250	720	-	130	110	120	170	170	250	-	690/57	690/57	260/32	2.5	IP54 /IP56	IP67			
R-1000	iA	120F-7B	●	-	-	○	●	○	120	2230	7	± 0.03**	790	360	200	385	720	250	720	225	130	110	120	170	170	250	130	800/71	800/71	360/38	2.5	IP54 /IP56	IP67			
R-1000	iA	130F	●	-	-	○	●	○	130	2230	6	± 0.03**	675	360	245	360	720	250	720	-	130	110	120	170	170	250	-	800/71	800/71	360/38	3	IP54 /IP56	IP67			

● standard ○ on request - not available [ ] with hardware and/or software option \*\* Based on ISO9283

# R-2000 Series



Max. load capacity at wrist: **270 kg**



Max. reach: **3540 mm**



R-2000iD/210FH

## Available robot versions:

R-2000iC/100P	Pedestal mount
R-2000iC/125L, /210L	Standard model
R-2000iD/100FH, /165FH, /210FH	Hollow wrist
R-2000iC/220U	Upside down mount
R-2000iC/165F, /210F, /240F, /270F	Standard model
R-2000iC/165R, /210R, /270R	Rack mount
R-2000iC/190S	High accuracy model
R-2000iC/210WE	Washproof

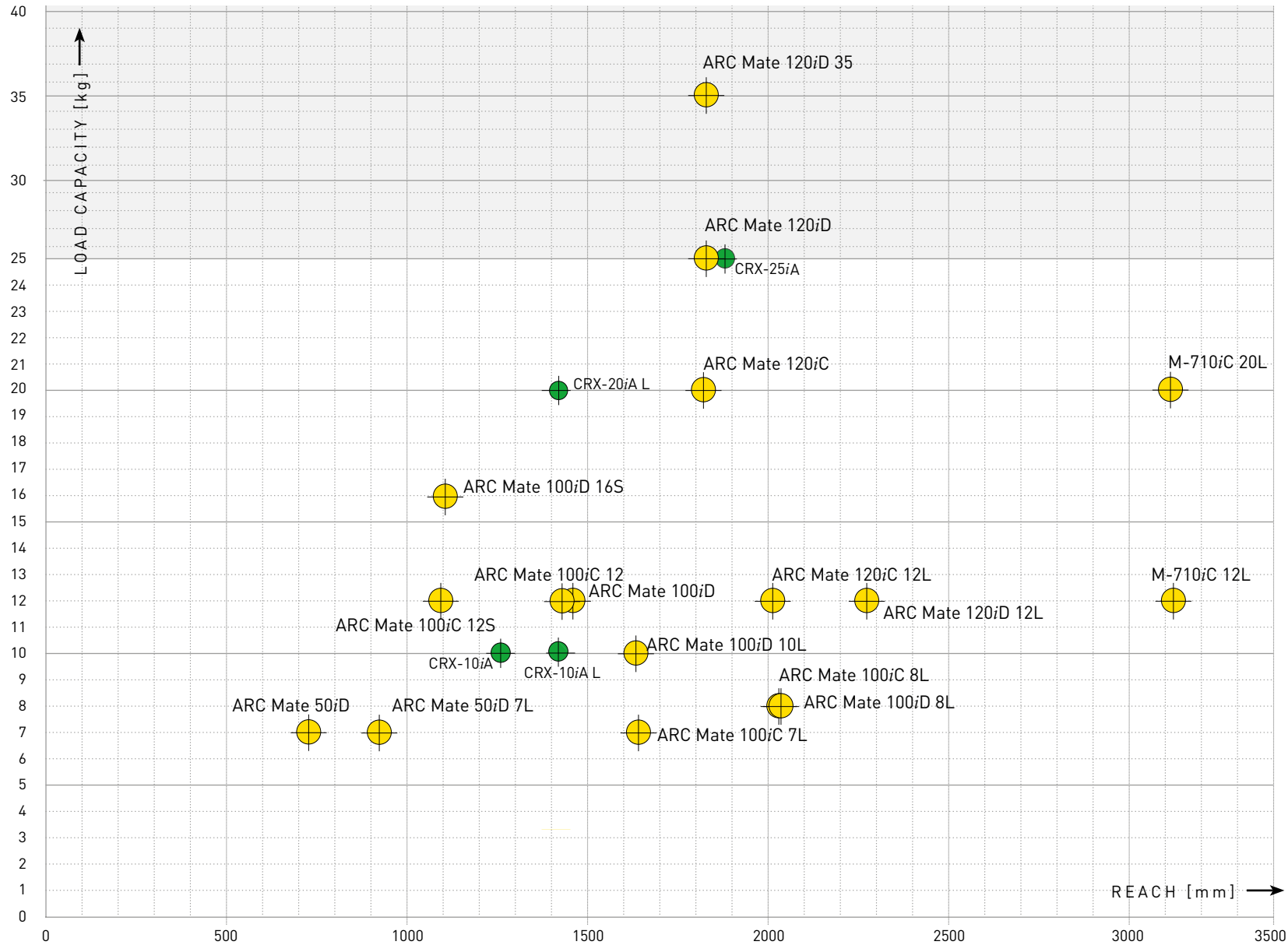


Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )	Average 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-2000	iC	100P	●	-	-	-	●	○	100	3540	6	± 0.05**	1470	370	200	375	720	250	720	120	100	115	140	140	210	1000/227	1000/227	706/196	2.5	IP54	IP67
R-2000	iD	100FH	●	-	-	○	●	○	100	2605	6	± 0.05**	1150	370	140	234	420	250	420	105	130	130	200	160	300	850/90	850/90	450/50	2.5	IP54	IP67
R-2000	iC	125L	●	-	-	○	●	○	125	3100	6	± 0.05**	1115	370	136	301	720	250	720	130	115	125	180	180	260	710/72	710/72	355/40	2.5	IP54 /IP56	IP67
R-2000	iC	165F	●	-	-	○	●	○	165	2655	6	± 0.05**	1090	370	136	312	720	250	720	130	115	125	180	180	260	940/120	940/120	490/100	2.5	IP54 /IP56	IP67
R-2000	iD	165FH	●	-	-	○	●	○	165	2605	6	± 0.05**	1130	370	140	234	420	250	420	130	110	115	175	170	280	1000/122	1000/122	620/100	2.5	IP54	IP67
R-2000	iC	165R	●	-	-	-	●	○	165	3095	6	± 0.05**	1370	370	200	375	720	250	720	115	110	125	180	180	260	940/89	940/89	490/46	2.5	IP54 /IP56	IP67
R-2000	iC	190S	●	-	-	-	●	○	190	2040	6	± 0.03**	1120	370	210	340	720	250	720	105	90	145	120	120	200	1200/200	1200/200	630/180	3	IP54	IP67
R-2000	iC	210F	●	-	-	○	●	○	210	2655	6	± 0.05**	1090	370	136	312	720	250	720	120	105	110	140	140	220	1360/225.4	1360/225.4	735/196	2.5	IP54 /IP56	IP67
R-2000	iD	210FH	●	-	-	○	●	○	210	2605	6	± 0.05**	1130	370	140	234	420	250	420	120	90	100	140	130	220	1380/228	1380/228	735/196	2.5	IP54	IP67
R-2000	iC	210L	●	-	-	-	●	○	210	3100	6	± 0.05**	1350	370	136	301	720	250	720	105	90	85	120	120	200	1700/320	1700/320	900/230	2.5	IP54 /IP56	IP67
R-2000	iC	210WE	●	-	-	-	●	○	210	2450	6	± 0.1**	1180	330	141	318	720	250	720	95	85	95	120	120	190	1333/141.1	1333/141.1	706/78.4	3	IP67	IP67
R-2000	iC	210R	●	-	-	-	●	○	210	3095	6	± 0.05**	1370	370	200	375	720	250	720	105	100	110	140	140	220	1360/147	1360/147	735/82	2.5	IP54 /IP56	IP67
R-2000	iC	220U	●	-	-	-	●	○	220	2518	6	± 0.05**	1020	370	136	312	720	250	720	120	85	110	140	140	220	1360/147	1360/147	735/82	3	IP54	IP67
R-2000	iC	240F	●	-	-	○	●	○	240	2655	6	± 0.05**	1090	370	136	312	720	250	720	115	90	105	130	130	210	1400/250	1400/250	800/200	3		
R-2000	iC	270F	●	-	-	-	●	○	270	2655	6	± 0.05**	1320	370	136	312	720	250	720	105	90	85	120	120	200	1730/320	1730/320	900/230	2.5	IP54 /IP56	IP67
R-2000	iC	270R	●	-	-	-	●	○	270	3095	6	± 0.05**	1590	370	200	375	720	250	720	105	85	85	120	120	200	1730/320	1730/320	900/230	3	IP54	IP67

● standard ○ on request - not available [ ] with hardware and/or software option \*\* Based on ISO9283

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# ARC WELDING ROBOT



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CRX Series . . . . . Page 32





# LR MATE 200

# LR-10



## ROBOT SERIES

Version			iD									iA	
Type			4SH	Type 4S	4SC	7H	7C	7WP	-	7L	7LC	14L *17	10
CONTROLLER	Controller Version	R-30iB Plus	•	•	•	•	•	•	•	•	•	•	•
	Compact		-	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		o	o	o	o	o	-	o	o	o	o	-
	Mate Cabinet		•	•	•	•	•	•	•	•	•	•	•
	A-Cabinet		-	-	-	-	-	-	-	-	-	-	-
	B-Cabinet		-	-	-	-	-	-	-	-	-	-	-
Max Load Capacity at wrist (kg)			4	4	4	7	7	7	7	7	7	14	10/13 *3
Reach (mm)			550	550	550	717	717	717	717	911	911	911	1101
Controlled axes			5	6	6	5	6	6	6	6	6	6	6
Repeatability (mm)			± 0.013**	± 0.01**	± 0.013**	± 0.018**	± 0.018**	± 0.018**	± 0.01**	± 0.01**	± 0.018**	± 0.01**	± 0.01**
Mechanical weight (kg)			19	20	20	24	25	25	25	27	27	27	46
MOTION RANGE (°)	J1		360	360	360	360	360	360	360	360	360	360	370
	J2		230	230	230	245	245	245	245	245	245	245	235
	J3		402	402	402	420	420	420	420	430	430	430	421
	J4		240	380	380	250	380	380	380	380	380	380	380
	J5		720	240	236	720	250	250	250	250	250	250	250
	J6		-	720	720	-	720	720	720	720	720	720	720
MAXIMUM SPEED (°/S)	E1		-	-	-	-	-	-	-	-	-	-	-
	J1		460	460	460	450	450	450	450	370	370	120	300
	J2		460	460	460	380	380	380	380	310	310	61	230
	J3		520	520	520	520	520	520	520	410	410	58	340
	J4		560	560	560	545	550	550	550	550	550	400	500
	J5		1500	560	560	1500	545	545	545	545	545	240	400
	J6		-	900	900	-	1000	1000	1000	1000	1000	400	800
E1		-	-	-	-	-	-	-	-	-	-	-	
J4 Moment/Inertia (Nm/kgm²)			8.86/02	8.86/02	8.86/02	16.6/0.47	16.6/0.47	16.6/0.47	16.6/0.47	16.6/0.47	16.6/0.47	31.0/0.66	21.0/0.77
J5 Moment/Inertia (Nm/kgm²)			4.0/0.046 [5.5/0.083]	8.86/02	8.86/02	4.0/0.046 [5.5/0.15]	16.6/0.47	16.6/0.47	16.6/0.47	16.6/0.47	16.6/0.47	31.0/0.66	21.0/0.77
J6 Moment/Inertia (Nm/kgm²)			-	4.9/0.067	4.9/0.067	-	9.4/0.15	9.4/0.15	9.4/0.15	9.4/0.15	9.4/0.15	13.4/0.30	10.0/0.28
Average power consumption (Kw)			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	-
PROTECTION	Body Standard/optional		IP67	IP67	IP67	IP67/IP69K	IP67	IP67/IP69K	IP67/IP69K	IP67/IP69K	IP67	IP67	IP67
	Wrist and J3 Arm Standard/optional		IP67	IP67	IP67	IP67/IP69K	IP67	IP67/IP69K	IP67/IP69K	IP67/IP69K	IP67	IP67	IP67



# M-10

# M-20



## ROBOT SERIES

Version			iD							iD	iB	iD	iD	iB	iB	iD
Type			8L	10L	12	12 *18)	12 *19)	16S	12L	25	25	25 *19)	25C	35S	35	
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	
	Mate Cabinet		○	○	○	○	○	○	○	○	○	○	○	○	○	
	A-Cabinet		●	●	●	●	●	●	●	●	●	●	●	●	●	
	B-Cabinet		○	○	○	○	○	○	○	○	○	○	○	○	○	
Max Load Capacity at wrist (kg)			8	10	12	12	12	16	12	25	25	25	25	35	35	
Reach (mm)			2032	1636	1441	1441	1441	1103	2272	1853	1831	1831	1853	1445	1831	
Controlled axes			6	6	6	6	6	6	6	6	6	6	6	6	6	
Repeatability (mm)			± 0.03**	± 0.03**	± 0.02 **	± 0.02 **	± 0.02 **	± 0.02 **	± 0.03**	± 0.02**	± 0.02**	± 0.02**	± 0.023**	± 0.02**	± 0.03**	
Mechanical weight (kg)			180	150	145	145	145	140	250	210	250	250	210	205	250	
MOTION RANGE (°)	J1		340 (370)	340 (370)	340 (370)	340 (370)	340 (370)	340 (370)	340 (370)	340 (360)	340 (370)	340 (370)	340 (360)	340 (360)	340 (370)	
	J2		235	235	235	235	235	235	260	240	260	260	240	240	260	
	J3		455	455	455	455	455	340	475	303	458	458	303	301.5	458	
	J4		380	380	380	380	380	380	400	400	400	400	400	400	400	
	J5		280 (360) (*21)	280 (360) (*21)	280 (360) (*21)	240	280 (360) (*21)	280 (360) (*21)	280 (360) (*21)	290	280 (360) (*21)	280 (360) (*21)	290	260	280 (360) (*21)	
	J6		540 (900) (*21)	540 (900) (*21)	540 (900) (*21)	540	540 (900) (*21)	540 (900) (*21)	540 (900) (*21)	540	540 (900) (*21)	540 (900) (*21)	540	540	540 (900) (*21)	
MAXIMUM SPEED (°/S)	E1		-	-	-	-	-	-	-	-	-	-	-	-	-	
	J1		210	260	260	260	260	290	210	205	210	210	205	205	180	
	J2		210	240	240	240	240	270	210	205	210	210	205	205	180	
	J3		220	260	260	260	260	270	265	260	265	265	260	260	200	
	J4		430	430	430	430	430	430	420	415	420	420	415	415	350	
	J5		450	450	450	450	450	450	450	415	420	420	415	415	350	
	J6		720	720	720	720	720	730	720	880	720	720	880	880	400	
E1		-	-	-	-	-	-	-	-	-	-	-	-	-		
J4 Moment/Inertia (Nm/kgm²)			16.1/0.63	22.0/0.65	26.0/0.90	26.0/0.90	26.0/0.90	26.0/0.90	26.0/0.90	22.0/0.65	51/2.2	52.0/2.4	52.0/2.4	51/2.2	51/2.2	110.0/4.0
J5 Moment/Inertia (Nm/kgm²)			16.1/0.63	22.0/0.65	26.0/0.90	26.0/0.90	26.0/0.90	26.0/0.90	26.0/0.90	22.0/0.65	51/2.2	52.0/2.4	52.0/2.4	51/2.2	51/2.2	110.0/4.0
J6 Moment/Inertia (Nm/kgm²)			5.9/0.061	9.8/0.17	11.0/0.30	11.0/0.30	11.0/0.30	11.0/0.30	11.0/0.30	9.8/0.17	31/1.2	32.0/1.2	32.0/1.2	31/1.2	31/1.2	60.0/1.5
Average power consumption (Kw)			1	1	1	1	1	1	1	1	1	1	1	1	1	
PROTECTION	Body Standard/optional		IP54	IP54/IP65	IP54/IP65	IP67	IP65	IP54 /IP65	IP54/IP65	IP67	IP54/IP65	IP65	IP67	IP67	IP54/IP65	
	Wrist and J3 Arm Standard/optional		IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	

● standard ○ on request - not available ( ) with hardware and/or software option \*18) Dustproof \*19) Food grade \*21) Extended range for external cable type \*\* Based on ISO9283



# ROBOT SERIES

## M-410



## M-710



Version			iB	iC				iB	iC										iD	
Type			140H	110	185	315	500	700	12L	20L	20M	45M	50S	50T	50H	50	50E	70T	70	50M
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mate Cabinet		-	-	-	-	-	-	○	○	○	○	○	○	○	○	○	○	○	○
	A-Cabinet		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	B-Cabinet		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Max Load Capacity at wrist (kg)			140	110	185	315	500	700	12	20	20	45	50	50	50	50	50	70	70	50
Reach (mm)			2850	2403	3143	3143	3143	3143	3123	3110	2582	2606	1359	1900 *1)	2003	2050	2050	1900 *1)	2050	2606
Controlled axes			5	4	4	4	4	4	6	6	6	6	6	6	5	6	6	6	6	6
Repeatability (mm)			± 0.2	± 0.05	± 0.5	± 0.5	± 0.5	± 0.5	± 0.09**	± 0.06**	± 0.06**	± 0.06**	± 0.04**	± 0.07	± 0.15	± 0.03**	± 0.07	± 0.07	± 0.04**	± 0.06
Mechanical weight (kg)			1200	1030	1600 (1330) *4,5	1600 (1330) *4,5	2410 (1910) *4,5	2700	540	540	530	570	545	410	540	560	560	410	560	600
MOTION RANGE [°]	J1		360	370	360	360	370	360	360	360	360	360	360	*1)	360	360	360	*1)	360	370
	J2		155	125	144	144	144	144	225	225	225	225	169	261	225	225	225	261	225	225
	J3		112	140	136	136	136	136	434	432	435	440	376	491	440	440	440	491	440	440
	J4		20	720	720	720	720	540	400	400	400	800	720	720	234	720	720	720	720	800
	J5		720	-	-	-	-	-	380	280	280	250	250	250	720	250	380	250	250	250
	J6		-	-	-	-	-	-	720	900	900	800	720	720	-	720	720	720	720	800
MAXIMUM SPEED [°/S]	E1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	J1		140	145	140	90	85	60	180	175	175	180	175	*1)	175	175	175	*1)	160	180
	J2		115	130	140	100	85	60	180	175	175	180	175	175	175	175	175	120	120	180
	J3		135	140	140	110	85	60	180	180	180	180	175	175	175	175	175	120	120	180
	J4		135	420	305	195	200	120	400	350	350	250	250	250	175	250	250	225	225	260
	J5		420	-	-	-	-	-	430	360	360	250	250	250	720	250	240	225	225	260
PROTECTION	J6		-	-	-	-	-	630	600	600	360	355	355	-	355	340	225	225	370	
	E1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	J4 Moment/Inertia (Nm/kgm²)		147	53	88	155	250	490	22.0/0.65	39.2/0.88	39.2/0.88	206/28	206/28	206/28	150/6.3	206/28	206/28	294/28	294/28	215/30
	J5 Moment/Inertia (Nm/kgm²)		53	-	-	-	-	-	22.0/0.65	39.2/0.88	39.2/0.88	206/28	206/28	206/28	68/2.5	206/28	176/10.8	294/28	294/28	215/30
	J6 Moment/Inertia (Nm/kgm²)		-	-	-	-	-	-	9.8/0.17	19.6/0.25	19.6/0.25	127/20	127/11	127/11	-	127/11	98/3.3	147/11	147/11	215/30
	Average power consumption (Kw)			3	3	3	3	3	3	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		IP54	IP54	IP54	IP54	IP54	IP54	IP54/IP67	IP54/IP67	IP54/IP67	IP54/IP67	IP54/IP67	IP54/IP67	IP54/IP67	IP54	IP54/IP67	IP54/IP67	IP54/IP67	
	Wrist and J3 Arm Standard/optional		IP54	IP54	IP54	IP54	IP54	IP54	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	



## M-800

## M-900

## M-1000

### ROBOT SERIES



Version			iA	iB					iA	
Type			60	280	280L	330L	360E	400L	700E	
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●
	Compact		-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-
	Mate Cabinet		-	-	-	-	-	-	-	-
	A-Cabinet		●	●	●	●	●	-	-	●
	B-Cabinet		○	○	○	○	○	●	●	○
Max Load Capacity at wrist (kg)			60	280	280	330	360	400	700	1000
Reach (mm)			2040	2655	3103	3203	2655	3704	2832	3253
Controlled axes			6	6	6	6	6	6	6	6
Repeatability (mm)			± 0.03**	± 0.1**	± 0.1**	± 0.1**	± 0.1**	± 0.1**	± 0.1**	± 0.1**
Mechanical weight (kg)			820	1700	1600	1780	1540	3150	3040	5300
MOTION RANGE [°]	J1		370	370	370	370	370	360	360	330
	J2		225	151	151	151	151	154	154	145
	J3		340	224	224	164	224	160	160	260
	J4		720	720	720	720	720	720	720	720
	J5		250	250	250	250	250	244	244	240
	J6		720	720	720	720	720	720	720	720
MAXIMUM SPEED [°/S]	E1		-	-	-	-	-	-	-	-
	J1		150	110	110	100	100	80	80	60
	J2		150	105	105	85	105	80	80	50
	J3		150	100	100	85	100	80	80	50
	J4		260	110	125	90	110	100	100	70
	J5		260	110	125	85	110	100	100	70
	J6		400	180	205	165	180	160	160	85
E1			-	-	-	-	-	-	-	-
J4 Moment/Inertia (Nm/kgm²)			210/30	1960/ 260(460)	1700/ 215(340)	2205/340	2330/500	3400/1098	5000/1098	8800/1750
J5 Moment/Inertia (Nm/kgm²)			210/30	1960/ 260(460)	1700/ 215(340)	2205/340	2330/500	3400/1098	5000/1098	8800/1750
J6 Moment/Inertia (Nm/kgm²)			130/20	1050/ 160(360)	950/ 140(260)	1200/220	1280/360	1725/444	2800/444	5800/840
Average power consumption (Kw)			2.5	3	3	3	3	5	5	8
PROTECTION	Body Standard/optional		IP54	IP54/IP56	IP54/IP56	IP54 /IP56	IP54 /IP56	IP54/IP56	IP54/IP56	IP54
	Wrist and J3 Arm Standard/optional		IP54	IP67	IP67	IP67	IP67	IP67	IP67	IP67



# M-2000

# R-1000



## ROBOT SERIES

Version			iA				iA				
Type			900L	1200	1700L	2300	80H	80F	100F	120F-7B	130F
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●
	Compact		-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	-
	Mate Cabinet		-	-	-	-	○	○	○	○	○
	A-Cabinet		●	●	●	●	●	●	●	●	●
	B-Cabinet		○	○	○	○	○	○	○	○	○
Max Load Capacity at wrist (kg)			900	1200(1350)	1700	2300	80	80	100	120	130
Reach (mm)			4683	3734	4683	3734	2230	2230	2230	2230	2230
Controlled axes			6	6	6	6	5	6	6	7	6
Repeatability (mm)			± 0.18**	± 0.18**	± 0.27**	± 0.18**	± 0.03**	± 0.03**	± 0.03**	± 0.03**	± 0.03**
Mechanical weight (kg)			9600	8600	12500	11000	610	620	665	790	675
MOTION RANGE [°]	J1		330	330	330	330	360	360	360	360	360
	J2		160	160	160	160	245	245	245	200	245
	J3		165	165	165	165	215	360	360	385	360
	J4		720	720	720	720	20	720	720	720	720
	J5		240	240	240	240	720	250	250	250	250
	J6		720	720	720	720	-	720	720	720	720
MAXIMUM SPEED [°/S]	E1		-	-	-	-	-	-	-	225	-
	J1		45	45	20	20	185	170	130	130	130
	J2		30	30 (25)	14	14	180	140	110	110	110
	J3		30	30	14	14	180	160	120	120	120
	J4		50	50	18	18	180	230	170	170	170
	J5		50	50	18	18	500	230	170	170	170
J6		70	70	40	40	-	350	250	250	250	
E1		-	-	-	-	-	-	-	130	-	
J4 Moment/Inertia (Nm/kgm²)			14700/2989	14700/2989	29400/7500	29400/7500	-/48	380/30	690/57	800/71	800/71
J5 Moment/Inertia (Nm/kgm²)			14700/2989	14700/2989	29400/7500	29400/7500	-/25	380/30	690/57	800/71	800/71
J6 Moment/Inertia (Nm/kgm²)			4900/2195	4900/2195	8820/5500	8820/5500	-	200/20	260/32	360/38	360/38
Average power consumption (Kw)			8	8	8	8	2.5	2.5	2.5	2.5	3
PROTECTION	Body Standard/optional		IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56
	Wrist and J3 Arm Standard/optional		IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67



# R-2000

## ROBOT SERIES



Version		iC	iD	iC	iC	iD	iC	iC	iC	iD	iC						
Type		100P	100FH	125L	165F	165FH	190S	165R	210F	210FH	210L	210WE	210R	220U	240F	270F	270R
CONTROLLER	Controller Version	R-30iB Plus															
	Compact	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mate Cabinet	-	o	o	o	o	-	-	o	o	-	-	-	-	o	-	-
	A-Cabinet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	B-Cabinet	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Max Load Capacity at wrist (kg)		100	100	125	165	165	190	165	210	210	210	210	210	220	240	270	270
Reach (mm)		3540	2605	3100	2655	2605	2040	3095	2655	2605	3100	2450	3095	2518	2655	2655	3095
Controlled axes		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Repeatability (mm)		± 0.05**	± 0.05**	± 0.05**	± 0.05**	± 0.05**	± 0.03**	± 0.05**	± 0.05**	± 0.05**	± 0.05**	± 0.1**	± 0.05**	± 0.05**	± 0.05**	± 0.05**	± 0.05**
Mechanical weight (kg)		1470	1150	1115	1090	1130	1120	1370	1090	1130	1350	1180	1370	1020	1090	1320	1590
MOTION RANGE [°]	J1	370	370	370	370	370	370	370	370	370	370	330	370	370	370	370	370
	J2	200	140	136	136	140	210	200	136	140	136	141	200	136	136	136	200
	J3	375	234	301	312	234	340	375	312	234	301	318	375	312	312	312	375
	J4	720	420	720	720	420	720	720	720	420	720	720	720	720	720	720	720
	J5	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
	J6	720	420	720	720	420	720	720	720	420	720	720	720	720	720	720	720
MAXIMUM SPEED [°/S]	J1	120	105	130	130	130	105	115	120	120	105	95	105	120	115	105	105
	J2	100	130	115	115	110	90	110	105	90	90	85	100	85	90	90	85
	J3	115	130	125	125	115	145	125	110	100	85	95	110	110	105	85	85
	J4	140	200	180	180	175	120	180	140	140	120	120	140	140	130	120	120
	J5	140	160	180	180	170	120	180	140	130	120	120	140	140	130	120	120
	J6	210	300	260	260	280	200	260	220	220	200	190	220	220	210	200	200
J4 Moment/Inertia (Nm/kgm²)		1000/227	850/90	710/72	940/120	1000/122	1200/200	940/89	1360/225.4	1380/228	1700/320	1333/141.1	1360/147	1360/147	1400/250	1730/320	1730/320
J5 Moment/Inertia (Nm/kgm²)		1000/227	850/90	710/72	940/120	1000/122	1200/200	940/89	1360/225.4	1380/228	1700/320	1333/141.1	1360/147	1360/147	1400/250	1730/320	1730/320
J6 Moment/Inertia (Nm/kgm²)		706/196	450/50	355/40	490/100	620/100	630/180	490/46	735/196	735/196	900/230	706/78.4	735/82	735/82	800/200	900/230	900/230
Average power consumption (Kw)		2.5	2.5	2.5	2.5	2.5	3	2.5	2.5	2.5	2.5	3	2.5	3	3	2.5	3
PROTECTION	Body Standard/optional	IP54	IP54	IP54 /IP56	IP54 /IP56	IP54	IP54	IP54 /IP56	IP54/IP56	IP54	IP54/IP56	IP67	IP54/IP56	IP54		IP54/IP56	IP54
	Wrist and J3 Arm Standard/optional	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67		IP67	IP67

• standard    o on request    - not available    ( ) with hardware and/or software option    \*\* Based on ISO9283