

THE FACTORY AUTOMATION COMPANY

FANUC

Robots

Product overview



FROM THE SMALLEST TO THE STRONGEST



100% FANUC

FANUC offers the widest range of robots in the world to cover the needs of diverse applications and industries. They are a key standard component – totally flexible with application-specific options, straightforward integration, and the colour of choice for demanding automation solutions.

FANUC is the leading global manufacturer of factory automation, with 40 years of experience in the development of robot technology and satisfied customers in every corner of the globe.

Your advantages:

- more than 100 different robot models
- load capacity up to 2,300 kg
- reach up to 4,683 mm
- easy operation
- optimised energy consumption
- life time spare parts availability

We make demanding full automation scenarios very simple:

All of FANUC's robots, CNCs and machines share a common control platform. This means that robots used for loading and unloading can be integrated quickly and easily into your machine concepts. A machine and a robot can be connected to each other easily through a FANUC interface. Screens are provided in the CNC to monitor and control the robot and vice-versa.

We also provide powerful networking solutions to allow connectivity of automated production lines and machining systems.

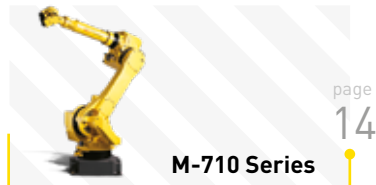
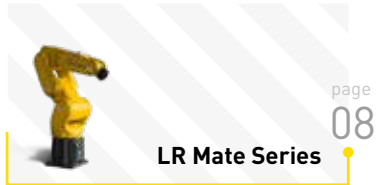


ONE COMMON CONTROL PLATFORM - INFINITE OPPORTUNITIES

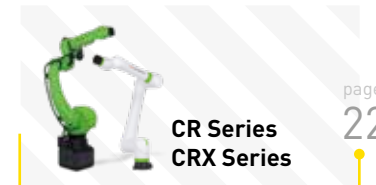


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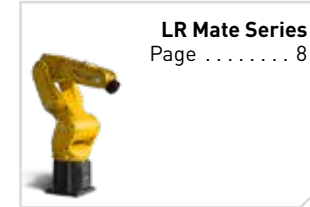
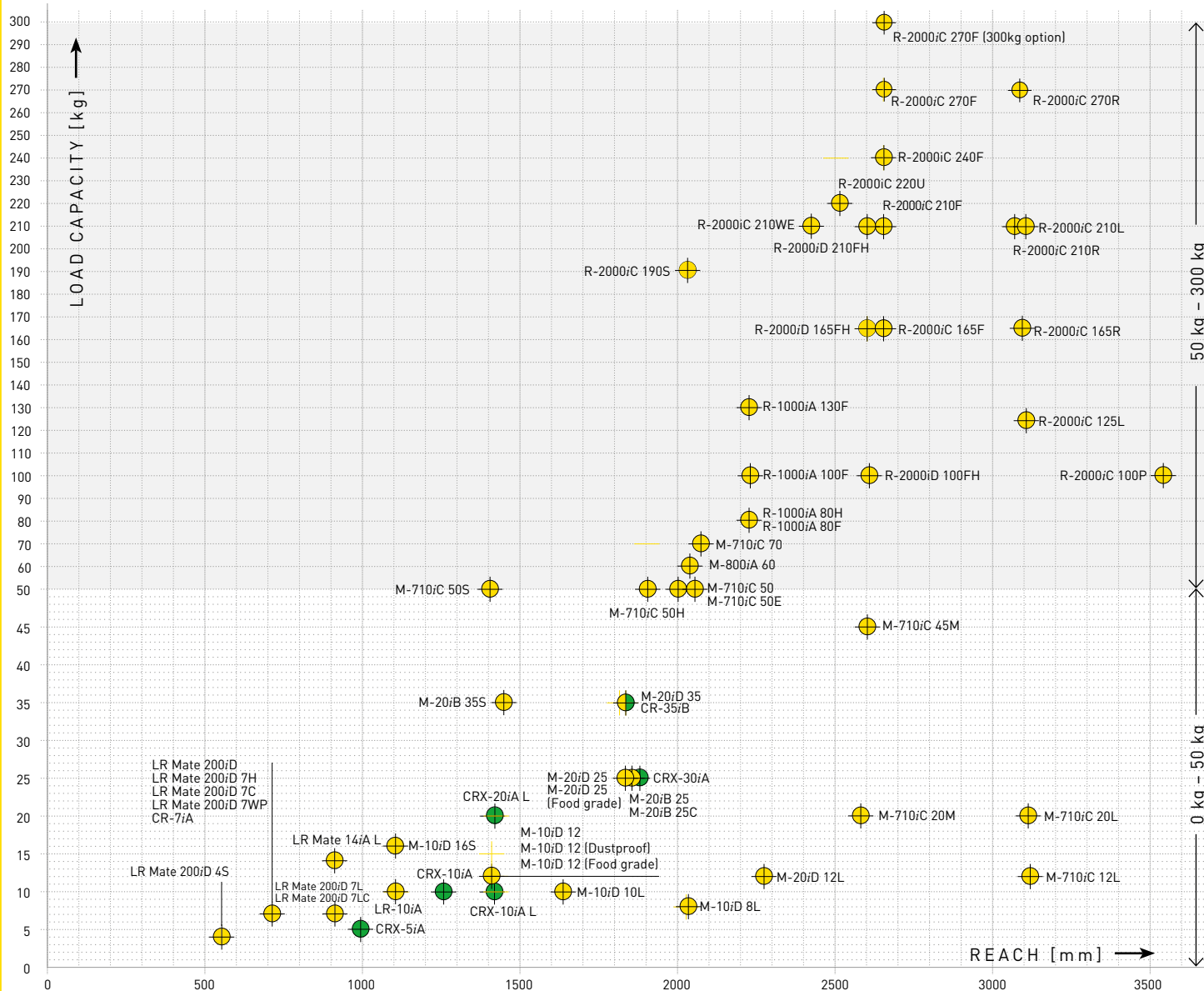
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FIND YOUR

ARTICULATED ROBOT

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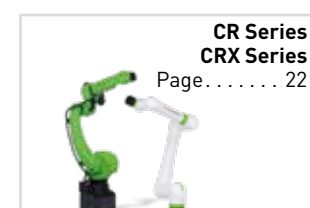
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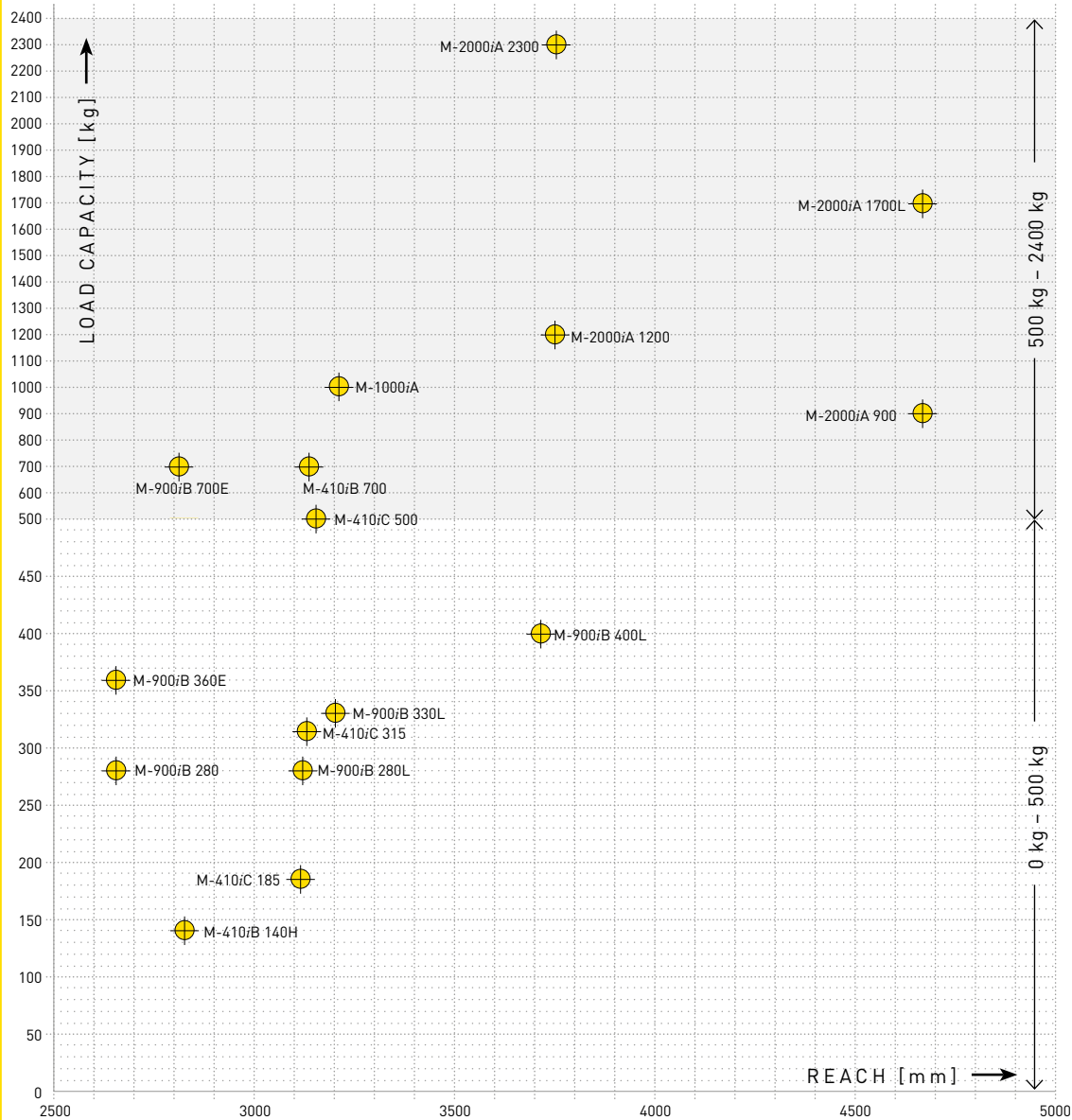
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*1) depending on rail specification

FIND YOUR

ARTICULATED ROBOT

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



LR Mate Series



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



Max. reach: **911 mm**



Available robot versions:

- LR Mate 200iD/4S Standard model
- 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



LR Mate 200iD

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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	Average power consumption (kW)	Protection	
Series	Version	Type	Version	Cabinet type			R-30iB Plus	Compact cabinet						Open air cabinet	Mate cabinet	A-cabinet	B-cabinet	J1	J2	J3	J4	J5	J6	J1	J2					J3	J4
LR Mate 200	iD	4S	●	-	○	●			-	-	4	550	6					± 0.01**	20	360	230	402	380	240	720	460	460	520	560	560	900
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	545	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	545	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	550	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	545	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	545	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	240	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. linear 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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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

Educational Packages



ER-4iA



CRX-5iA / CRX-10iA / CRX-10iA/L

Robotics expertise for schools and universities

All the core skills contained in a dedicated package.

Designed with students in mind, it enables young people to gain first-hand experience of programming and operating cutting-edge industrial robots. Package contents are highly relevant for modern factory applications and contain everything instructors require for teaching purposes.

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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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) ^{*21}	540 (900) ^{*21}	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) ^{*21}	540 (900) ^{*21}	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) ^{*21}	540 (900) ^{*21}	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 ^{*18)}	●	-	-	○	●	○	12	1441	6	± 0.02**	145	340 (370)	235	455	380	280 (360) ^{*21}	540 (900) ^{*21}	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 ^{*19)}	●	-	-	○	●	○	12	1441	6	± 0.02**	145	340 (370)	235	455	380	280 (360) ^{*21}	540 (900) ^{*21}	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) ^{*21}	540 (900) ^{*21}	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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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] ^{*21}	540 [900] ^{*21}	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] ^{*21}	540 [900] ^{*21}	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 ^{*19)}	●	-	-	○	●	○	25	1831	6	± 0.02**	250	340 [370]	260	458	400	280 [360] ^{*21}	540 [900] ^{*21}	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	± 0.02**	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	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] ^{*21}	540 [900] ^{*21}	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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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	± 0.05**	1030	370	125	140	720	-	145	130	140	420	-	-	53	-	-	3	IP54	IP54	
M-410	iC	185	●	-	-	-	●	○	185	3143	4	± 0.05**	1600 (1330) ^{*5}	360	144	136	720	-	140	140	140	305	-	-	88	-	-	3	IP54	IP54	
M-410	iC	315	●	-	-	-	●	○	315	3143	4	± 0.05**	1600 (1330) ^{*5}	360	144	136	720	-	90	100	110	195	-	-	155	-	-	3	IP54	IP54	
M-410	iC	500	●	-	-	-	●	○	500	3143	4	± 0.5	2410 (1910) ^{*5}	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) ** Based on ISO9283

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-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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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	± 0.11**	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	180	250	250	360	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	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	± 0.04**	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	340	206/28	176/10.8	98/3.3	2.5	IP54	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**

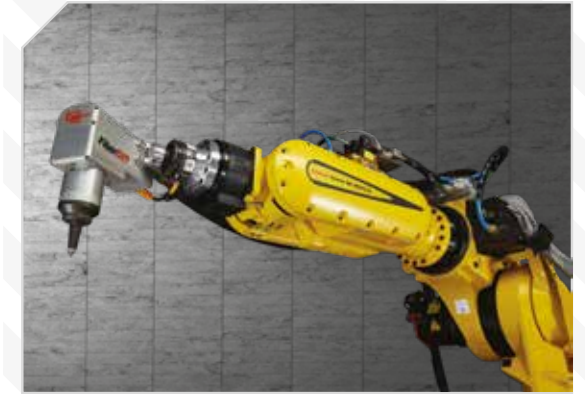
Available robot versions:

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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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-900;B/280 High rigidity model

M-900;B/360E, /700E Standard model

M-900;B/280L, /330L, /400L Standard model



M-900;B/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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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	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



FANUC

Enhance machine performance with FANUC robots

Increase efficiency, achieve consistent output, and reduce labour costs and add substantial value to your entire production process.

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 ²]	J5 Moment/ Inertia [Nm/kgm ²]	J6 Moment/ Inertia [Nm/kgm ²]	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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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/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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	Average Power consumption (kW)	Protection	
Series	Version	Type	Version		Cabinet type									Motion range (°)							Maximum speed (°/s)											Body standard/ optional	Wrist & J3 arm standard/ optional
			R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet						J1	J2	J3	J4	J5	J6	J7	J1	J2	J3	J4	J5	J6	J7						
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	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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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	IP54 /IP56	IP67
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 /IP56	IP67

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

Collaborative Series



Max. load capacity
at wrist:
35 (50) kg (*20)



Max. reach:
1889 mm

Available robot versions:

CRX-5iA	Standard model / Food grade model
CRX-10iA	Standard model / Food grade model
CRX-10iA/L	Standard model / Food grade model
CRX-20iA/L	Standard model / Food grade model
CRX-30iA	Standard model / Food grade model
CRX-35iB	Standard model / Food grade model



CR-35iB

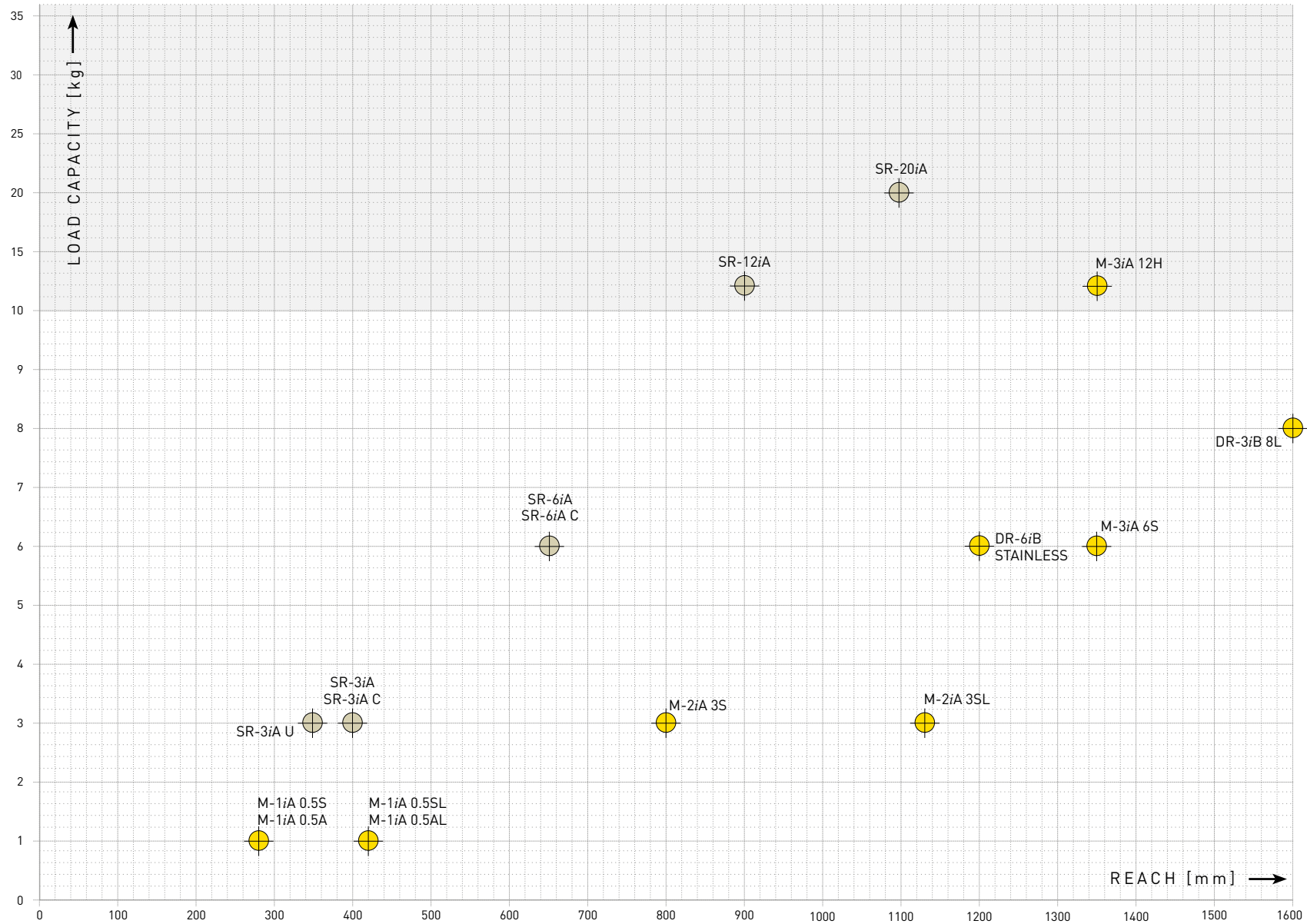
CRX-10iA/L

Robot			Controller							Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range (°)						Maximum speed (°/s)						Maximum linear speed (mm/s) ^{*10}	J4 Moment/ Inertia (Nm/kgm ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	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-30B Plus	Mini Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet																								
CRX-5	iA		●	●	-	-	-	-	-	5	994	6	± 0.03 **	25	400	360	635	380	360	450	150	150	180	225	225	225	1000 ^(*11)	19.0/0.77	15.4/0.50	6.7/0.10	0.3	IP67	IP67
CRX-10	iA		●	●	-	-	-	-	-	10	1249	6	± 0.04**	40	380	360	570	380	360	450	120	120	180	180	180	180	1000 ^(*11)	34.8 / 1.28	26.0 / 0.90	11.0 / 0.30	0.3	IP67	IP67
CRX-10	iA	L	●	●	-	-	-	-	-	10	1418	6	± 0.04**	40	360	360	540	380	360	450	120	120	180	180	180	1000 ^(*11)	34.8 / 1.28	26.0 / 0.90	11.0 / 0.30	0.3	IP67	IP67	
CRX-20	iA	L	●	●	-	-	-	-	-	20	1418	6	± 0.04**	41	360	360	540	380	360	450	80	80	120	112	90	112	1000	70.0/4.00	64.0/4.00	30.0/2.00	0.4	IP67	IP67
CRX-30	iA		●	●	-	-	-	-	-	25/30 ^(*20)	1889	6	± 0.05**	135	360	360	540	380	360	450	80	80	120	180	180	180	1000 ^(*11)	100.0/4.70	74.0/4.00	32.0/2.00	0.4	IP67	IP67

*7) It is necessary to set a motion speed according to risk assessment of system considering pinching with the surroundings. *10) During short distance motions, the speed may not reach the maximum value stated *11) 2000 mm/s in high speed mode *20) Software update ** Based on ISO9283

FIND YOUR

DELTA ROBOT AND SCARA ROBOT



Delta Robots Page 24



SR series Page 25

Delta Robots



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



Max. reach: **1600 mm**

Available robot versions:

M-1iA/0.5S 4-axis

M-1iA/0.5A 6-axis

M-1iA/0.5SL 4-axis

M-1iA/0.5AL 6-axis

M-2iA/3S 4-axis

M-2iA/3SL 4-axis

M-3iA/6S 4-axis

M-3iA/12H 3-axis

DR-3iB/6 STAINLESS Stainless

DR-3iB/8L 4-axis



M-1iA Series



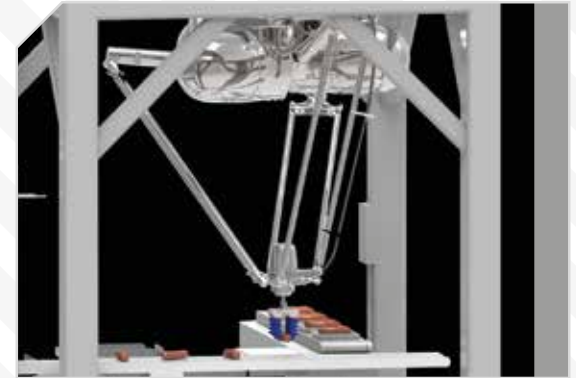
M-2iA Series



M-3iA Series



DR-3iB Series



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/kgm²]	J5 Moment/ Inertia [Nm/kgm²]	J6 Moment/ Inertia [Nm/kgm²]	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-1	iA	0.5S	●	-	●	○	-	-	0.5 (1)	280	4	± 0.02	20 ^(*12)	∅ 280 x 100 ^(*13)	720	-	-	-	-	-	3000	-	-	*14)	0.2	IP20	IP20				
M-1	iA	0.5A	●	-	●	○	-	-	0.5 (1)	280	6	± 0.02	23 ^(*12)	∅ 280 x 100 ^(*13)	720	300	720	-	-	-	1440	1440	1440	*14)	0.2	IP20	IP20				
M-1	iA	0.5SL	●	-	●	○	-	-	0.5 (1)	420	4	± 0.03	23 ^(*12)	∅ 420 x 150 ^(*13)	720	-	-	-	-	-	3000	-	-	*14)	0.2	IP20	IP20				
M-1	iA	0.5AL	●	-	●	○	-	-	0.5 (1)	420	6	± 0.03	26 ^(*12)	∅ 420 x 150 ^(*13)	720	300	720	-	-	-	1440	1440	1440	*14)	0.2	IP20	IP20				
M-2	iA	3S	●	-	●	○	○	-	3	800	4	± 0.03**	120	∅ 800 x 300 ^(*13)	720	-	-	-	-	-	3500	-	-	*14)	2.5	IP67/IP69K	IP69K				
M-2	iA	3SL	●	-	●	○	○	-	3	1130	4	± 0.03**	120	∅ 1130 x 400 ^(*13)	720	-	-	-	-	-	3500	-	-	*14)	2.5	IP67/IP69K	IP69K				
M-3	iA	6S	●	-	●	○	○	-	6 (8)	1350	4	± 0.03**	160	∅ 1350 x 500 ^(*13)	720	-	-	-	-	-	4000	-	-	*14)	2.5	IP67	IP67				
M-3	iA	12H	●	-	●	○	○	-	12	1350	3	± 0.03**	155	∅ 1350 x 500 ^(*13)	-	-	-	-	-	-	-	-	-	*14)	2.5	IP67	IP67				
DR-3	iB	6 (STAINLESS)	●	-	●	-	○	-	6	1200	4	± 0.03**	250	∅ 1200 x 450 ^(*13)	720	-	-	-	-	-	1714	-	-	-- / 0.025 [0.06]	*14)	2.5	IP69K	IP69K			
DR-3	iB	8L	●	-	●	-	○	-	8	1600	4	± 0.03**	170	∅ 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 *12) with stand *13) ∅ in mm by height in mm *14) refer to the wrist load diagram ** Based on ISO9283

SCARA Robots



Max. load capacity
at wrist: **20 kg**



Max. reach:
1100 mm



SR-3iA

Available robot versions:

SR-3iA	Standard model
SR-3iA/C	Clean Room, Food grade lubricant
SR-3iA/U	Upside down
SR-6iA	Standard model
SR-6iA/C	Clean Room, Food grade lubricant
SR-12iA	Standard model, Dry Room
SR-20iA	Standard model, Dry Room

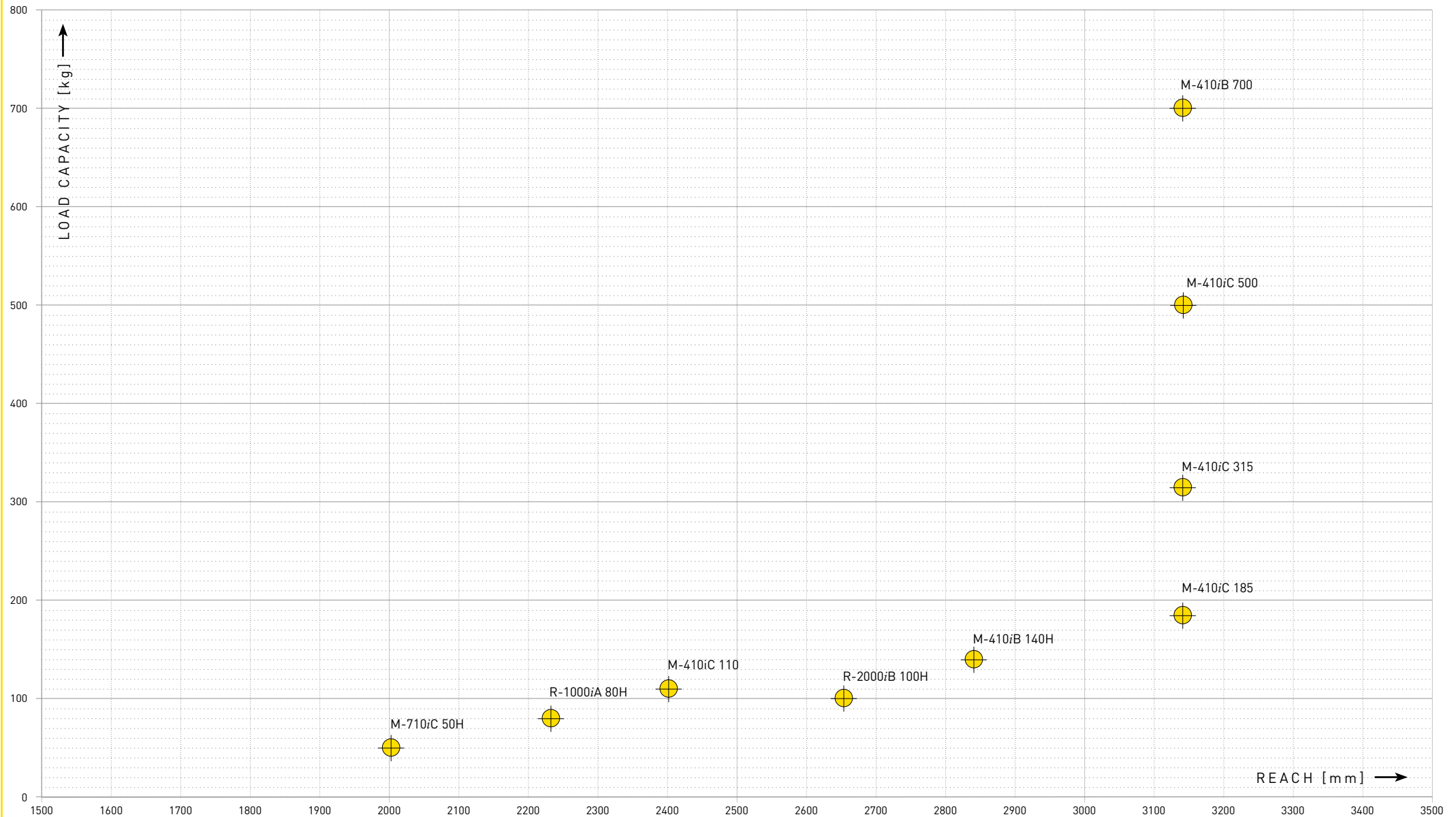


Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm) **				Mechanical weight (kg)	Motion range (°)				Maximum speed (°/s)				J4 Moment/Inertia (Nm/kgm ²)	Maximum pushdown force (N)	Average power consumption (kW)	Protection	
Series	Version	Type	Version		Cabinet type							J1	J2	J3	J4		J1	J2	J3	J4	J1	J2	J3	J4				Body standard/optional	Wrist & J3 arm standard/optional
			R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet	A- cabinet	B- cabinet																					
SR-3	iA		●	●	-	-	-	-	3	400	4	± 0.01	± 0.01	± 0.01	± 0.004°	19	284	290	200 mm ^{*16}	1400	720	780	1800 mm/s	3000	--/0.06	150	0.25	IP20	IP20
SR-3	iA	C	●	●	-	-	-	-	3	400	4	± 0.01	± 0.01	± 0.01	± 0.004°	21	284	290	200 mm ^{*16}	1400	720	780	1800 mm/s	3000	--/0.06	150	0.25	IP54	IP54
SR-3	iA	U	●	●	-	-	-	-	3	350	4	± 0.01	± 0.01	± 0.01	± 0.004°	27	450	450	140	1440	610	840	1500 mm/s	3000	--/0.06	150	0.25	IP20 / IP65	IP20 / IP65
SR-6	iA		●	●	-	-	-	-	6	650	4	± 0.01	± 0.01	± 0.01	± 0.004°	30	296	300	210 mm ^{*16}	1400	440	700	2000 mm/s	2500	--/0.12	200	0.35	IP20	IP20
SR-6	iA	C	●	●	-	-	-	-	6	650	4	± 0.01	± 0.01	± 0.01	± 0.004°	32	296	300	210 mm ^{*16}	1400	440	700	2000 mm/s	2500	--/0.12	200	0.35	IP54	IP54
SR-12	iA		●	●	-	-	-	-	12	900	4	± 0.015	± 0.015	± 0.01	± 0.005°	53	290	290	450 mm optional 300 mm	1400	440	510	2800 mm/s	2500	--/0.30	250	0.45	IP20 / IP65	IP20 / IP65
SR-20	iA		●	●	-	-	-	-	20	1100	4	± 0.02	± 0.02	± 0.01	± 0.005°	64	290	290	450 mm optional 300 mm	1700	400	500	2800 mm/s	1700	--/0.45	250	0.45	IP20 / IP65	IP20 / IP65

● standard ○ on request - not available [] with hardware and/or software option *16) z axis

FIND YOUR

PALLETISING ROBOT



Palletising Robots



M-710iC/50H



M-410iC/110



R-1000iA/80H



M-410 Series

Available robot versions:

M-710iC/50H	5-axis
R-1000iA/80H	5-axis
M-410iC/110	Standard model
M-410iB/140H	5-axis
M-410iB/700	Standard model
M-410iC/185, /315, /500	Standard model

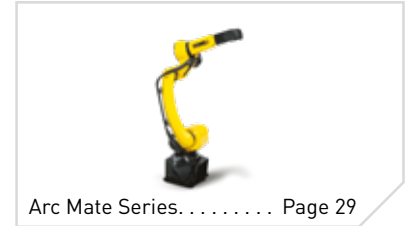
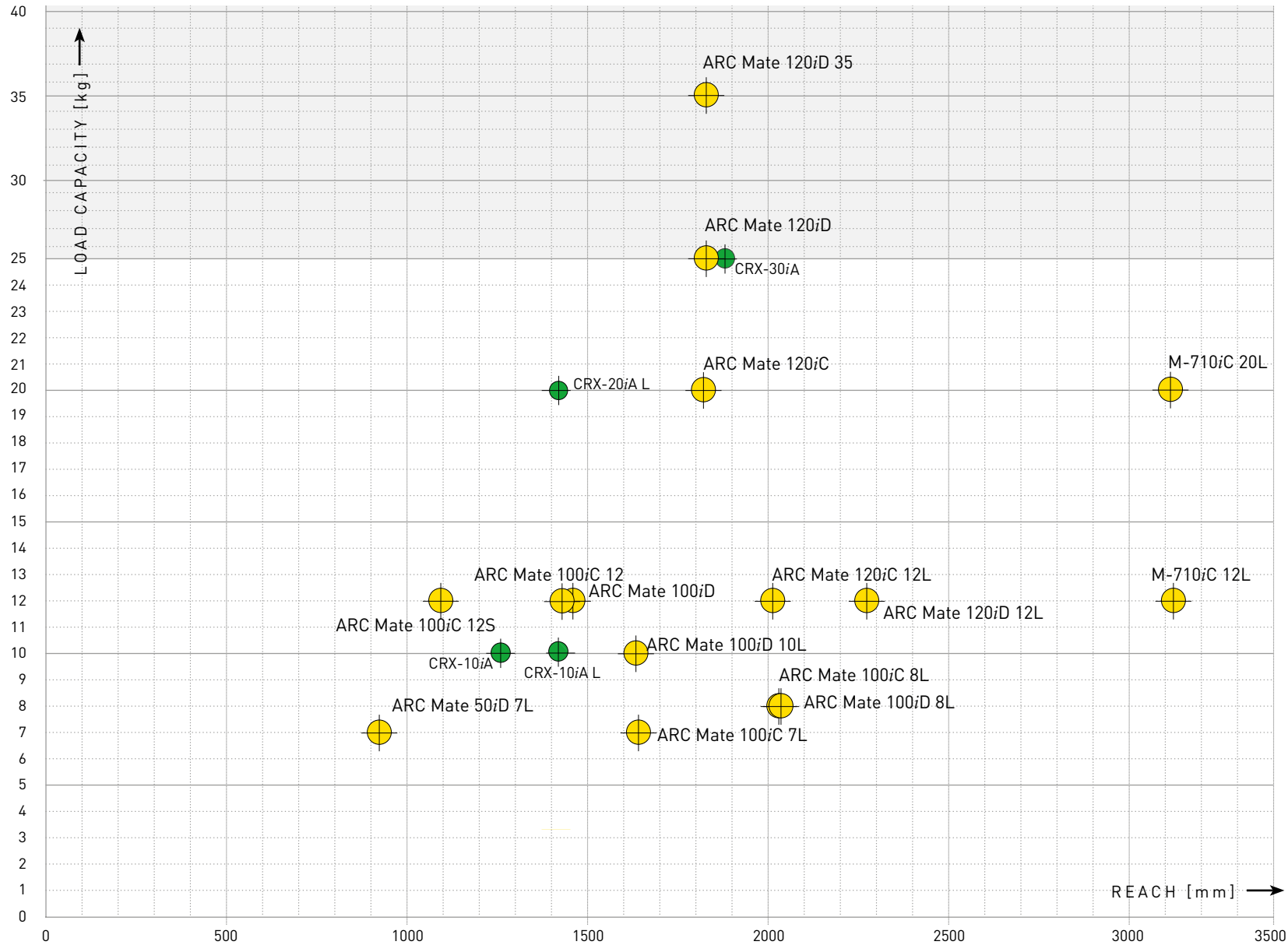


Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	Average Power consumption (kW)	Protection	
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-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
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 /IP56	IP67
M-410	iC	110	●	-	-	○	●	○	110	2403	4	± 0.05**	1030	370	125	140	720	-	145	130	140	420	-	-	-	53	-	-	1	IP54	IP67
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	185	●	-	-	-	●	○	185	3143	4	± 0.05**	1600(1330)	360	144	136	720	-	140	140	140	305	-	-	-	88	-	-	3	IP54	IP54
M-410	iC	315	●	-	-	-	●	○	315	3143	4	± 0.05**	1600(1330)	360	144	136	720	-	90	100	110	195	-	-	-	155	-	-	3	IP54	IP54
M-410	iC	500	●	-	-	-	●	○	500	3143	4	± 0.05	2410(1910)	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 ** Based on ISO9283

FIND YOUR

ARC WELDING ROBOT



Arc Welding Robots



ARC Mate 50 Series



ARC Mate 100 Series



ARC Mate 120 Series

Available robot versions:

ARC Mate 50iD/7L	Standard model
ARC Mate 100iD	Standard model
ARC Mate 100iD/8L, /10L	Standard model
ARC Mate 120iD	Standard model
ARC Mate 120iD/12L	Standard model
ARC Mate 120iD/35	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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	Average Power consumption (kW)	Protection	
Series	Version	Type	Version	Cabinet type			R-30iB Plus	J1						J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6	Body standard/ optional					Wrist & J3 arm standard/ optional	
ARC Mate 50	iD	7L	●	-	-	●	-	-	7	911	6	± 0.018**	27	360	245	430	380	250	720	370	310	410	550	545	1000	16.6/0.47	16.6/0.47	9.4/0.15	0.5	IP67/IP69K	IP67/IP69K
ARC Mate 100	iD	8L	●	-	-	○	●	○	8	2032	6	± 0.01**	180	340 (370)	235	455	380	280 (360) ^{*21}	540 (900) ^{*21}	210	210	220	430	450	720	16.1/0.63	16.1/0.63	5.9/0.061	1	IP54	IP67
ARC Mate 100	iD	10L	●	-	-	○	●	○	10	1636	6	± 0.03**	150	340 (370)	235	455	380	280 (360) ^{*21}	540 (900) ^{*21}	260	240	260	430	450	720	22.0/0.65	22.0/0.65	9.8/0.17	1	IP54	IP67
ARC Mate 100	iD		●	-	-	○	●	○	12	1441	6	± 0.02**	145	340 (370)	235	455	380	280 (360) ^{*21}	540 (900) ^{*21}	260	240	260	430	450	720	26.0/0.90	26.0/0.90	11.0/0.30	1	IP54	IP67
ARC Mate 120	iD	12L	●	-	-	○	●	○	12	2272	6	± 0.03**	250	340 (370)	260	458	400	280 (360) ^{*21}	540 (900) ^{*21}	210	210	265	420	450	720	22.0/0.65	22.0/0.65	9.8/0.17	1	IP54	IP67
ARC Mate 120	iD	35	●	-	-	○	○	○	35	1831	6	± 0.03**	250	340 (370)	260	458	400	280 (360) ^{*21}	540 (900) ^{*21}	180	180	200	350	350	400	110.0/4.0	110.0/4.0	60.0/1.5	1	IP54	IP67
ARC Mate 120	iD		●	-	-	○	●	○	25	1831	6	± 0.02**	250	340 (370)	260	458	400	280 (360) ^{*21}	540 (900) ^{*21}	210	210	265	420	420	720	52.0/2.4	52.0/2.4	32.0/1.2	1	IP54	IP67

● standard ○ on request - not available [] with hardware and/or software option *21 Extended range for external cable type ** Based on ISO9283

Arc Welding Robots

M-710iC/12L



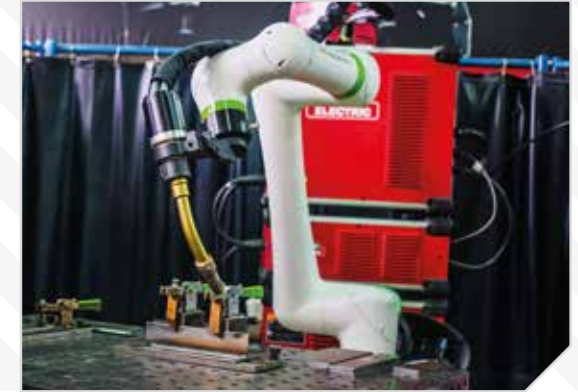
CRX-10iA/L

M-710iC/20L



Available robot versions:

M-710iC/12L	Hollow wrist
M-710iC/20L	Standard model
CRX-10iA	Standard model
CRX-10iA/L	Standard model
CRX-20iA/L	Standard model
CRX-30iA	Standard model

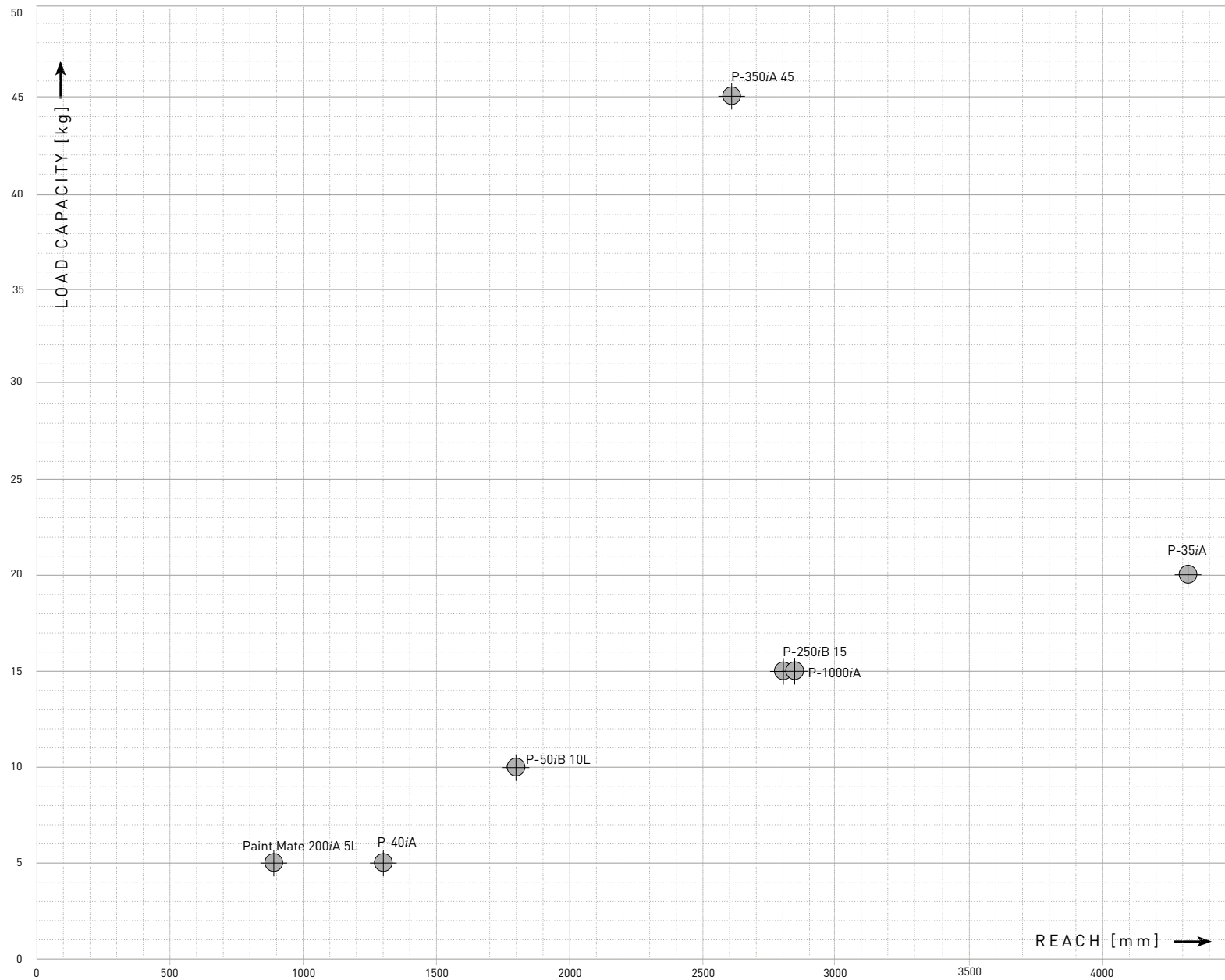


Robot			Controller							Max.load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						Maximum linear speed (mm/s)	J4 Moment/ Inertia (Nm/kgm ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	Average Power 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	Mimi 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	± 0.11**	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
CRX-10	iA		●	●	-	-	-	-	-	10	1249	6	± 0.04**	40	380	360	570	380	360	450	120	120	180	180	180	1000 ^(**11)	34.8 / 1.28	26.0 / 0.90	11.0 / 0.30	0.5	IP67	IP67	
CRX-10	iA	L	●	●	-	-	-	-	-	10	1418	6	± 0.04**	40	360	360	540	380	360	450	120	120	180	180	180	1000 ^(**11)	34.8 / 1.28	26.0 / 0.90	11.0 / 0.30	0.5	IP67	IP67	
CRX-20	iA	L	●	●	-	-	-	-	-	20	1418	6	± 0.04**	41	360	360	540	380	360	450	80	80	120	112	90	112	1000	70.0/4.00	64.0/4.00	30.0/2.00	0.4	IP67	IP67
CRX-30	iA		●	●	-	-	-	-	-	25/30 ^(**20)	1889	6	± 0.05**	135	360	360	540	380	360	450	80	80	120	180	180	1000 ^(**11)	100.0/4.70	74.0/4.00	32.0/2.00		IP67	IP67	

● standard ○ on request - not available [] with hardware and/or software option *20) Software update *11) 2000 mm/s in high speed mode ** Based on ISO9283

FIND YOUR

PAINT ROBOT



Paint Mate 200 Series . . . Page 32



P-40 Series Page 32



P-50 Series Page 32



P-250 Series Page 32



P-350 Series Page 32

Paint Robots



Paint Mate 200 Series



P-40 Series



P-50 Series



P-250 Series



P-350 Series



P-1000 Series

Available robot versions:

Paint Mate 200iA/5L	Standard model
P-20iB	Opener
P-35iA	Opener
P-40iA	Standard model
P-50iB/10L	Standard model
P-250iB/15	Standard model
P-350iA/45	Standard model
P-1000iA	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 ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)	J7 Moment/ Inertia (Nm/kgm ²)	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						Body standard/ optional	Wrist & J3 arm standard/ optional
				R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet																										
Paint Mate 200	iA	5L	●	-	-	●	-	-	5	892	6	± 0.03 **	37	340	230	373	380	240	720	270	270	270	450	450	720	11.9/0.3	11.9/0.3	6.7/0.1	0.5	*15)				
P-40	iA		●	-	-	●	-	-	5	1300	6	± 0.03 **	110	360	255	423	380	240	720	220	190	240	450	450	720	11.9/0.3	11.9/0.3	6.7/0.1	0.8	*15)				
P-50	iB	10L	●	-	-	-	-	-	10	1800	6	± 0.05 **	364	320	240	404	1080	1080	1080	140	140	160	375	430	545	43.35/1.954	36.86/1.413	4.90/0.025	0.8	*15)				
P-250	iB	15	●	-	-	-	●	-	15	2800	6	± 0.07 **	530	320	280	330	1080	1080	1080	160	160	160	375	430	545	65/3	55/2.1	11.5/0.35	3.5	*15)				
P-350	iA	45	●	-	-	-	●	-	45	2606	6	± 0.06 **	590	360	225	440	800	250	800	180	180	180	250	250	300	206/28	206/28	127/20	3.5	*15)				
P-1000	iA		●	-	-	-	●	-	15	2896	7	± 0.08 **	584	220	150	240	145	1440	1440	125	125	120	120	200	200	200	65/3.0	55/2.1	11.5/0.35	3.5	*15)			
Opener																																		
P-35	iA		●	-	-	-	●	-	20	4318	5	± 0.08 **	716	220	370	590	270	360			75	100	100	50	50					3.5	*15)			
P-20	iB	*22	●	-	-	-	●	-	27-36	1125	3		190	350	280	*24														3.5	*15)			
P-20	iB	*23	●	-	-	-	●	-	27-36	1475	3		200	350	300	*24														3.5	*15)			

● standard ○ on request - not available () with hardware and/or software option *15) ATEX certified Cat. II Group 2G and 2D *22) 550 mm inner link arm *23) 900 mm inner link arm *24) Linear axis 385 mm ** Based on ISO9283

Controller R-30*i*B Plus



Mini Plus
410 x 277 x 370 mm

Compact Cabinet
440 x 85 x 260 mm

Mate Open Air Cabinet
370 x 200 x 350 mm

Mate Cabinet
470 x 400 x 322 mm

B-cabinet
740 x 1100 x 550 mm

A-cabinet
600 x 500 x 470 mm

The R-30*i*B Plus controller is the FANUC standard for smarter productivity.

A new generation of advanced technology and enhanced integrated FANUC hard- and more than 250 software functions are key for the robot performance in terms of cycle-time, speed, accuracy and safety. Increased user-friendliness, minimum energy consumption and highest productivity maximises the overall functionality, reliability and operability. Different cabinet variants are available in order to provide a flexible and a cost effective solution.

Your advantages:

- higher performance CPU and main board with increased memory
- compact and stackable design
- easy operation with smart *i*Pendant Touch
- flexible connections by broad range of fieldbus & safety bus
- ready for intelligent functions as *i*Rvision, force, interference check etc.
- easy system diagnosis via included *i*RDiagnosics function
- optimised energy efficiency and energy regeneration
- shortened signal processing cycle
- new camera interface and simplified cable configuration for vision function
- high speed network and USB performance for increased data transmission and faster backups

iPendant Touch

The lightweight and ergonomically designed FANUC *iPendant Touch* with its intuitive *iHMI* interface provides user-friendly programming for both programmers and on-site operators.

Your advantages:

- programming and advanced process capability with one user interface
- improved efficiency by facilitated system setup and maintenance
- customisation of user defined HTML screens
- easy customisation of user defined HTML screens
- make the invisible visible using 4D graphics to visualise tool and frame settings, safety zones and robot path
- more information provided using multi-window display
- setup/modification of *iR*Vision via *iPendant*
- compliant with industrial safety standards
- *iHMI* with similar look and feel across FANUC products



Tablet TP

With a large touch screen, the Tablet Teach Pendant was designed for intuitive programming. The drag & drop functionality allows you to easily program an application in a matter of minutes.

Your advantages:

- compliant with industrial safety standards (emergency stop button, three-position enabling switch, shock resistance, dust and water protected)
- two interfaces available:

New user interface

Intuitive interface for beginners with a focus on simple functions for easy operation

iPendant user interface

Same interface of the iPendant Touch including full specifications and thus ensuring a smooth transition from the traditional iPendant to the Tablet TP

- optional holder and hook available
- create pages and icons to easily setup and use the robot and peripherals thanks to the Plugin Mechanism



New user interface



iPendant user interface



ORIGINAL FANUC SMART ACCESSORIES AND FUNCTIONS

INTELLIGENCE

iRVision

Unique integrated FANUC “plug & play” visual detection system (2D, 2½D, 3D, 3D-Map) – improved flexibility for picking random stationary products. Also support in simulation SW ROBOGUIDE.

Force Sensors

Integrated FANUC force sensor provides „touch sense” for highly sensitive force control to realize assembly, deburring, polishing and many other applications.

iRPickTool (Visual line tracking)

Part queue management, completely integrated in robot controller to support line tracking on moving conveyors. Combination of integrated FANUC iRVision with iRPickTool, for higher flexibility when picking random products on a moving conveyor.

3D Vision Sensor

Different variations of integrated 3D high speed vision detection system for bin picking, depalletising and/or visual line tracking.

iRCalibration suite

iRCalibration provide different service functions, by using of iRVision functionality, to simplify robot mastering, remastering, UFrame and UTool setting, Frame shifting and coordinated pair setting (precise and easy setup of coordinated robots and/or positioners).

Intelligence functions

Dedicated functions with simplified instructions, interfaces, graphical user screens and exclusive features to standardise and ease the programming, setup and operation of your robot.



MOTION

Integrated auxiliary axes

Fully integrated standardized and comprehensive auxiliary axis packages – up to 72 axes, for easy usage in external axis solutions (robot rail unit, custom-made manipulator, ...)

Multi-arm

For complex or coordinated multiple robot movements controlled by a single controller

Positioners

A wide range of FANUC integrated positioners – the ideal solution for coordinated motion and manipulating work pieces.

Learning Vibration Control

Cycle time improvement by the optimisation of path motion using a dedicated accelerometer sensor to suppress tool vibrations during robot motions.

Motion functions

Dedicated instructions and screens with exclusive features to optimise the motion of your robot and simplify the programming and setup.

Hand Guidance

The hand guidance accessory enables the robot to be positioned by pushing the handle mounted on the robot wrist. It can be used to pick up and carry a workpiece and teach robot programs easily.



SAFETY

Motion safety

Dual Check Safety (DCS) for reliable checking of position and robot speed in predefined three-dimensional zones – higher safety for operators, machines and periphery

Collision guard

High Sensitive Collision Detection (HSCD) for minimal damages in the event of a collision and optimised cycle time and energy consumption after using payload identification

Safety functions

dedicated functions with keen instructions, interfaces, screens and exclusive features to simplify and standardise the programming, setup and operation of your robot. Easy to connect via safety bus function (DeviceNet Safety, EtherNet/IP Safety, PROFINET Safety).



INTERFACES

Digital I/O

Easy handshake setup using digital input and output interface communication between robot and other periphery

Field bus

Faster handshake setup using a wide variety of fieldbus standards (Profibus, Modbus, Devicenet, Profinet, Ethernet ...)

Interface functions

dedicated functions with keen instructions, interfaces, screens and exclusive features to simplify and standardise the programming, setup and operation of your robot.



COMFORT

iPendant Touch

A color, internet-ready iPendant Touch with intuitive iHMI interface for even easier and faster programming using pictogram functions plus cost savings by using the touchscreen for custom HMI applications

ROBOGUIDE

Simulation software for offline programming, easy setup of robot cell's and feasibility studies with huge library of simulation tools.

Application functions

dedicated functions with keen instructions, interfaces, screens and exclusive features to simplify and standardise the programming, setup and operation of your robot.



ASK YOUR LOCAL FANUC OFFICE!

iRVision – we empower robots to see

iRVision is FANUC's unique, fully robot integrated visual detection system enabling the robots to see in order to manage production settings in a faster, smarter and more reliable way.



Easy plug and play technology

iRVision is fully robot integrated, not requiring an interface to external devices or any additional hardware (such as PCs, monitors or side cabinets) for the set up and operation.

Efficient ease of use

The solution is setup within a fast matter of time, as it guides you through each step along the way. A powerful vision toolbox, that is integrated in the standard iRVision package, supports any tailor-made application.

Easy simulation

All vision types of iRVision are supported in the simulation software ROBOGUIDE.



2D vision

Detection of objects positioned in one layer (X,Y,R)



2½D vision

Detection of objects positioned in two or more layers (X,Y,Z,R)



3D Vision Sensor

Detection of objects by 3D map (structured light projection) (X,Y,Z,W,P,R)



iRPickTool

Detection of objects on-the-fly in conveyor tracking (X,Y,R). Not only camera but also 3DV sensor can be used for detection



iRCalibration

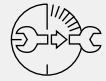
iRCalibration functions simplify the initial setup, speeding up the entire integration



iRVision Weld Tip Inspection / iTorchMate

Supports the optical wear and condition control

ZDT (Zero Down Time)



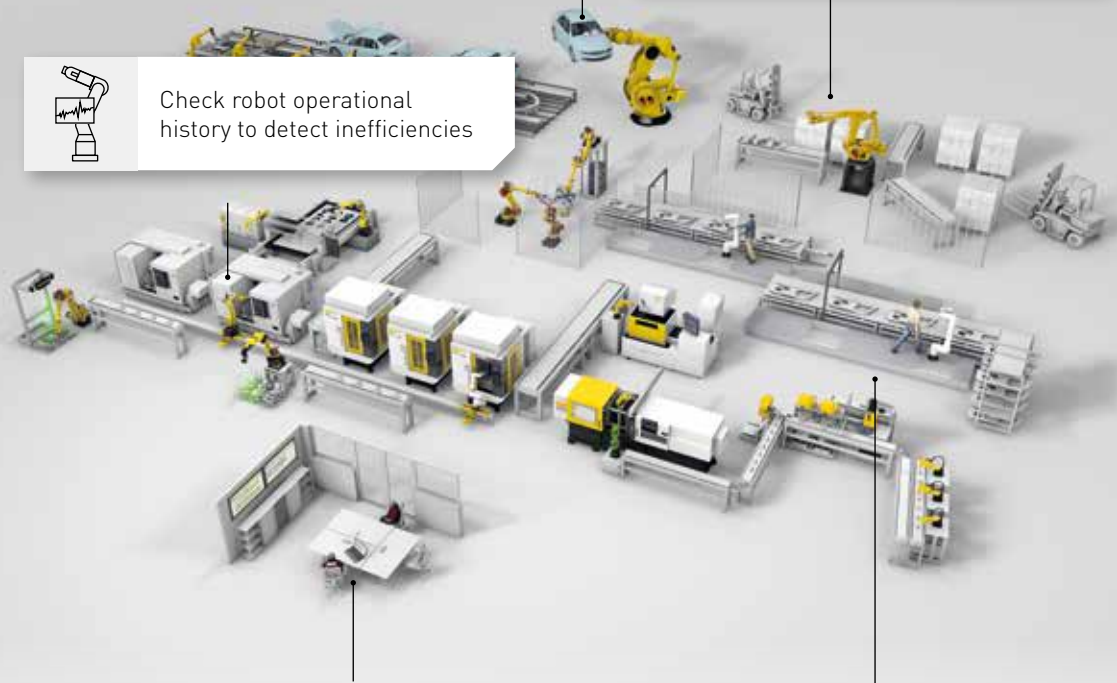
Improve robot life and power consumption



Detect abnormalities to eliminate robot failures



Check robot operational history to detect inefficiencies



Possibility to check robot status and information from local or remote location



Optimise maintenance tasks schedule by condition based approach

Intelligent diagnostics for robots

A robot breakdown can cause significant system production downtime. FANUC Zero Down Time is an IoT solution designed to eliminate unforeseen production stoppage and enhance FANUC robot performance. ZDT collects and analyses data to track each robot's overall health and maintenance requirements while running production. All information can be centrally managed on a Server and can be sent in real-time to remote devices such as smartphones. ZDT provides early notifications if action is required to prevent unexpected downtime.

Delivers real time information about:

- **Mechanical health** reducer diagnosis, motor torque monitoring, servo alarm recording, etc.
- **Process health** traceability for arc welding and spot welding process parameters, recording of failed welds, traceability for *iR*Vision detection results
- **System health** error information, memory usage, CPU and network load, etc.
- **Maintenance health** grease change time, battery replacement time, lubrication of balancer bushings, etc.

Enhances your productivity by:

- **Proactively detecting potential equipment issues** before unexpected downtime occurs
- **Advanced analytics and reporting to help optimise equipment utilisation in areas such as:**
 - smart maintenance notifications to extend equipment life and optimise maintenance costs
 - recommendation of actions to extend robot life, reduce cycle times and energy consumption
- **Offering enhanced technical support services** to increase productivity and overall customer satisfaction

FANUC ROBOGUIDE

INTELLIGENT 3D ROBOT SIMULATION

FANUC ROBOGUIDE is an offline simulation package that simulates both the robot's motion and application commands, significantly reducing the time it takes to create new motion setups.

To ensure minimal impact on production, cells can be designed with imported CAD tested and modified entirely offline. Designed to be intuitive and extremely easy to use ROBOGUIDE requires very little or even no training. Built on Virtual Robot Controllers to give you accurate motion and cycle times.

Evaluate cells and cycle times

To ensure optimal cell design, ROBOGUIDE allows you to model cells and select the most suitable robot for your application and setup. With an internal virtual controller cycle times can be calculated and validated both quickly and accurately.

Pre-programming saves you time

ROBOGUIDE allows you to pre-program robots prior to installation in a cell as well as view and confirm robot trajectories and Dual Check Safety (DCS) parameters before downloading the programmes to the real robot.

Set up and test complex systems

ROBOGUIDE's templates make setting up auxiliary axes, positioners and multigroup machines easy. These can then be tested for functionality to confirm cycle times, duty and power.

ROBOT CELL SIMULATION WITHOUT DOWNTIME

Fast and cost-efficient troubleshooting

Loading an All of Above or image Backup into ROBOGUIDE makes reproducing and solving errors easy.

Full process verification functionality

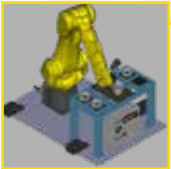
The robot simulator contains a full package of process verification tools including motion, execution and cycle time validation as well as collision detection.

Improvement without downtime

Enhancing and debugging can take place with production running with zero risk of downtime.

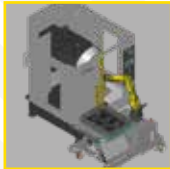
From design to confirmation - Highly accurate interface & specific tools

With the on board CAD library you have complete access to all FANUC Robots, Machines and simple tooling. The robot simulation and profiler function contains a full package of process verification details including motion, cycle time validation as well as collision detection and avoidance. It is also available with dedicated tools for specific applications.



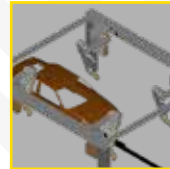
ChamferingPRO

A step-by-step navigator lets you generate and simulate deburring programmes automatically. To generate the deburring paths, just click the lines to be deburred on the 3D CAD data.



HandlingPRO

Simulate and test material handling processes and conduct feasibility studies for robotic applications without the physical need and expense of a prototype work cell setup.



PaintPRO

Graphical offline programming solution that simplifies robotic path teaching and paint process development. It contains special functionality for setting up paint gun displacement, spray size, overlap, paint pattern, paint speed and gun trigger timing.



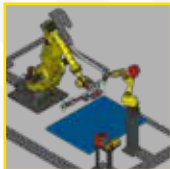
OLPCPRO

Robot program development software that supports the development and maintenance of KAREL and Teach Pendant Programming.



PalletPRO

Can be used to completely build, debug and test a palletising application offline. The data created in PalletPRO can then be downloaded to a real robot controller containing the PalletTool software.



WeldPRO

Simulate a robotic arc welding process in the 3-D world. Driven exclusively by a FANUC Virtual Robot Controller, WeldPRO is empowered with the most accurate program teaching tools and cycle time information available in any simulation package.



iRPickPRO

FANUC's latest plug-in to the ROBOGUIDE off-line programming tool, allows users to simulate high speed pick and place applications. iRPickPRO can then be downloaded to a real robot controller containing the iRPickPRO software.

Test ROBOGUIDE now

Rely on FANUC Know-how and more than 16 years of ROBOGUIDE 3D simulation experience that is continuously improved and updated. Contact your local FANUC office to experience working with ROBOGUIDE yourself!

OUR STRENGTH: SERVICE AND SUPPORT



Parts

The original equipment manufacturer

- Life-time parts coverage
- 24/7 parts dispatch worldwide
- European Repair Centre
- Check and shop online
- Emergency Kit
- Parts Pooling
- Consignment at customer



Service

Tailored to your needs

- 24-hour hotline support
- Service contracts with
 - a. **Predictive services**
"Efficient equipment monitoring"
 - b. **Preventive service**
"Extend the lifetime of your equipment"
 - c. **Corrective Service**
"Emergency Services"
 - d. **Repair Service**
"New life for your parts & machine"
 - e. **Refurbishment service**
"Extend lifetime of your equipment"



**WHEREVER
YOU NEED US:
WE ARE THERE**



FANUC Academy

Let's optimise your productivity

- Product Trainings by FANUC
- On demand or On-Site Trainings
- Dedicated FANUC trainers
- First-hand knowledge
- Fully equipped training centre



- Lifetime maintenance
- Minimise downtime
- Worldwide support

Reliable, Predictable, Easy to repair





LR MATE 200

LR-10



ROBOT SERIES			LR MATE 200							LR-10	
Version										iA	
Type			4S	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	-
	Mate Cabinet		•	•	•	•	•	•	•	•	•
	A-Cabinet		-	-	-	-	-	-	-	-	-
	B-Cabinet		-	-	-	-	-	-	-	-	-
Max Load Capacity at wrist (kg)			4	7	7	7	7	7	7	14	10/13 *3
Reach (mm)			550	717	717	717	717	911	911	911	1101
Controlled axes			6	5	6	6	6	6	6	6	6
Repeatability (mm)			± 0.01**	± 0.018**	± 0.018**	± 0.018**	± 0.01**	± 0.01**	± 0.018**	± 0.01**	± 0.01**
Mechanical weight (kg)			20	24	25	25	25	27	27	27	46
MOTION RANGE (°)	J1		360	360	360	360	360	360	360	360	370
	J2		230	245	245	245	245	245	245	245	235
	J3		402	420	420	420	420	430	430	430	421
	J4		380	250	380	380	380	380	380	380	380
	J5		240	720	250	250	250	250	250	250	250
	J6		720	-	720	720	720	720	720	720	720
MAXIMUM SPEED (°/S)	E1		-	-	-	-	-	-	-	-	-
	J1		460	450	450	450	450	370	370	120	300
	J2		460	380	380	380	380	310	310	61	230
	J3		520	520	520	520	520	410	410	58	340
	J4		560	545	550	550	550	550	550	400	500
	J5		560	1500	545	545	545	545	545	240	400
	J6		900	-	1000	1000	1000	1000	1000	400	800
E1		-	-	-	-	-	-	-	-	-	
J4 Moment/Inertia (Nm/kgm²)			8.86/0.02	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)			8.86/0.02	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	-	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	-
PROTECTION	Body Standard/optional		IP67	IP67	IP67/IP69K	IP67/IP69K	IP67	IP67/IP69K	IP67/IP69K	IP67	IP67
	Wrist and J3 Arm Standard/optional		IP67	IP67	P67/IP69K	IP67/IP69K	IP67	IP67/IP69K	IP67/IP69K	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**	± 0.02**	± 0.02**	± 0.03**	
Mechanical weight (kg)			180	150	145	145	145	140	250	210	250	250	210	205	250	
MOTION RANGE (°)	J1	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	J2	235	235	235	235	235	235	260	240	260	260	240	240	260	
	J3	J3	455	455	455	455	455	340	458	303	458	458	303	301.5	458	
	J4	J4	380	380	380	380	380	380	400	400	400	400	400	400	400	
	J5	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	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	E1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	J1	J1	210	260	260	260	260	290	210	205	210	210	205	205	180	
	J2	J2	210	240	240	240	240	270	210	205	210	210	205	205	180	
	J3	J3	220	260	260	260	260	270	265	260	265	265	260	260	200	
	J4	J4	430	430	430	430	430	430	420	415	420	420	415	415	350	
	J5	J5	450	450	450	450	450	450	450	415	420	420	415	415	350	
	J6	J6	720	720	720	720	720	730	720	880	720	720	880	880	400	
E1	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



M-410

M-710

M-800

ROBOT SERIES



Version			iB	iC				iB	iC								iD	iA	
Type			140H	110	185	315	500	700	12L	20L	20M	45M	50S	50H	50	50E	70	50M	60
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	70	50	60
Reach (mm)			2850	2403	3143	3143	3143	3143	3123	3110	2582	2606	1359	2003	2050	2050	2050	2606	2040
Controlled axes			5	4	4	4	4	4	6	6	6	6	6	5	6	6	6	6	6
Repeatability (mm)			± 0.2	± 0.05	± 0.05	± 0.05	± 0.5	± 0.5	± 0.09**	± 0.11**	± 0.06**	± 0.06**	± 0.04**	± 0.15	± 0.04**	± 0.07	± 0.04**	± 0.06	± 0.015**
Mechanical weight (kg)			1200	1030	1600 (1330)*4,5	1600 (1330)*4,5	2410 (1910)*4,5	2700	540	540	530	570	545	540	560	560	560	600	820
MOTION RANGE [°]	J1		360	370	360	360	370	360	360	360	360	360	360	360	360	360	370	370	
	J2		155	125	144	144	144	144	225	225	225	225	169	225	225	225	225	225	
	J3		112	140	136	136	136	136	434	432	435	440	376	440	440	440	440	440	
	J4		20	720	720	720	720	540	400	400	400	800	720	234	720	720	720	800	
	J5		720	-	-	-	-	-	380	280	280	250	250	720	250	380	250	250	
	J6		-	-	-	-	-	-	720	900	900	800	720	-	720	720	720	800	
	E1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAXIMUM SPEED [°/S]	J1		140	145	140	90	85	60	180	175	175	180	175	175	175	175	160	180	
	J2		115	130	140	100	85	60	180	175	175	180	175	175	175	175	120	180	
	J3		135	140	140	110	85	60	180	180	180	180	175	175	175	175	120	180	
	J4		135	420	305	195	200	120	400	350	350	250	250	175	250	250	225	260	
	J5		420	-	-	-	-	-	430	360	360	250	250	720	250	240	225	260	
	J6		-	-	-	-	-	-	630	600	600	360	355	-	355	340	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	150/6.3	206/28	206/28	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	68/2.5	206/28	176/10.8	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	98/3.3	147/11	130/20	
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	
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	
	Wrist and J3 Arm Standard/optional		IP54	IP54	IP54	IP54	IP54	IP54	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	



ROBOT SERIES

M-900



M-1000 M-2000



R-1000



Version			iB							iA	iA				iA			
Type			280	280L	330L	360E	400L	700E		900L	1200	1700L	2300	80H	80F	100F	130F	
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Mate Cabinet		-	-	-	-	-	-	-	-	-	-	○	○	○	○		
	A-Cabinet		●	●	●	●	-	-	●	●	●	●	●	●	●	●	●	
	B-Cabinet		○	○	○	○	●	●	○	○	○	○	○	○	○	○	○	
Max Load Capacity at wrist (kg)			280	280	330	360	400	700	1000	900	1200(1350)	1700	2300	80	80	100	130	
Reach (mm)			2655	3103	3203	2655	3704	2832	3253	4683	3734	4683	3734	2230	2230	2230	2230	
Controlled axes			6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	
Repeatability (mm)			± 0.1**	± 0.1**	± 0.1**	± 0.1**	± 0.1**	± 0.1**	± 0.1**	± 0.18**	± 0.18**	± 0.27**	± 0.18**	± 0.03**	± 0.03**	± 0.03**	± 0.03**	
Mechanical weight (kg)			1700	1600	1780	1540	3150	3040	5300	9600	8600	12500	11000	610	620	665	675	
MOTION RANGE [°]	J1		370	370	370	370	360	360	330	330	330	330	330	360	360	360	360	
	J2		151	151	151	151	154	154	145	160	160	160	160	245	245	245	245	
	J3		224	224	164	224	160	160	260	165	165	165	165	215	360	360	360	
	J4		720	720	720	720	720	720	720	720	720	720	720	20	720	720	720	
	J5		250	250	250	250	244	244	240	240	240	240	240	720	250	250	250	
	J6		720	720	720	720	720	720	720	720	720	720	720	-	720	720	720	
MAXIMUM SPEED [°/S]	E1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	J1		110	110	100	100	80	80	60	45	45	20	20	185	170	130	130	
	J2		105	105	85	105	80	80	50	30	30 (25)	14	14	180	140	110	110	
	J3		100	100	85	100	80	80	50	30	30	14	14	180	160	120	120	
	J4		110	125	90	110	100	100	70	50	50	18	18	180	230	170	170	
	J5		110	125	85	110	100	100	70	50	50	18	18	500	230	170	170	
	J6		180	205	165	180	160	160	85	70	70	40	40	-	350	250	250	
E1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
J4 Moment/Inertia (Nm/kgm²)			1960/260(460)	1700/215(340)	2205/340	2330/500	3400/1098	5000/1098	8800/1750	14700/2989	14700/2989	29400/7500	29400/7500	-/48	380/30	690/57	800/71	
J5 Moment/Inertia (Nm/kgm²)			1960/260(460)	1700/215(340)	2205/340	2330/500	3400/1098	5000/1098	8800/1750	14700/2989	14700/2989	29400/7500	29400/7500	-/25	380/30	690/57	800/71	
J6 Moment/Inertia (Nm/kgm²)			1050/160(360)	950/140(260)	1200/220	1280/360	1725/444	2800/444	5800/840	4900/2195	4900/2195	8820/5500	8820/5500	-	200/20	260/32	360/38	
Average power consumption (Kw)			3	3	3	3	5	5	8	8	8	8	8	2.5	2.5	2.5	3	
PROTECTION	Body Standard/optional		IP54/IP56	IP54/IP56	IP54 /IP56	IP54 /IP56	IP54/IP56	IP54/IP56	IP54	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	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	-	-	o	-	o	-	-	-
	A-Cabinet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	B-Cabinet	o	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	85	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/IP56	IP54/IP56	
	Wrist and J3 Arm Standard/optional	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	



ROBOT SERIES



Version			iB	iA				iA				iA		iA		iB			
Type			35	5	10	10L	20L	30	0.5S	0.5A	0.5SL	0.5AL	3S	3SL	6S	12H	6	8L	
CONTROLLER	Controller Version	R-30;iB Plus	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Mini Plus		-	•	•	•	•	•	-	-	-	-	-	-	-	-	-	-	
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Open Air Cabinet		-	-	-	-	-	-	•	•	•	•	•	•	•	•	-	-	
	Mate Cabinet		-	-	-	-	-	-	○	○	○	○	○	○	○	○	-	-	
	A-Cabinet		•	-	-	-	-	-	-	-	-	-	○	○	○	○	•	•	
	B-Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Max Load Capacity at wrist (kg)			35 [50] ^[*20]	5	10	10	20	25 [30] ^[*20]	0.5 [1]	0.5 [1]	0.5 [1]	0.5 [1]	3	3	6[8]	12	6	8	
Reach (mm)			1831 [1643]	994	1249	1418	1418	1889	280	280	420	420	800	1130	1350	1350	1200	1600	
Controlled axes			6	6	6	6	6	6	4	6	4	6	4	4	4	3	4	4	
Repeatability (mm)			± 0.03**	± 0.03**	± 0.04**	± 0.04**	± 0.04**	± 0.05**	± 0.02	± 0.02	± 0.03	± 0.03	± 0.03	± 0.03	± 0.03	± 0.03	± 0.03**	± 0.03**	
Mechanical weight (kg)			386	25	40	40	41	135	20 ^[*12]	23 ^[*12]	23 ^[*12]	26 ^[*12]	120	120	160	155	250	170	
MOTION RANGE [°]	J1		370	400	380	360	360	360	∅ 280x100 ^[*13]	∅ 280x100 ^[*13]	∅ 420x150 ^[*13]	∅ 420x150 ^[*13]	∅ 800x300 ^[*13]	∅ 1130x400 ^[*13]	∅ 1350x500 ^[*13]	∅ 1350x500 ^[*13]	∅ 1200x450 ^[*13]	∅ 1600x500 ^[*13]	
	J2		215	360	360	360	360	360											
	J3		338	635	570	540	540	540											
	J4		400	380	380	380	380	380											
	J5		280	360	360	360	360	360											
	J6		900	450	450	450	450	450											
MAXIMUM SPEED [°/S]	J1		750 ^[*7]	150	120	120	80	80	-	-	-	-	-	-	-	-	-	-	-
	J2		750 ^[*7]	150	120	120	80	80	-	-	-	-	-	-	-	-	-	-	-
	J3		750 ^[*7]	180	180	180	120	120	-	-	-	-	-	-	-	-	-	-	-
	J4		750 ^[*7]	225	180	180	112	180	3000	1440	3000	1440	3500	3500	4000	-	1714	2000	
	J5		750 ^[*7]	225	180	180	90	180	-	1440	-	1440	-	-	-	-	-	-	
	J6		750 ^[*7]	225	180	180	112	180	-	1440	-	1440	-	-	-	-	-	-	
Maximum linear speed (mm/sec) ^{**10]}			750	1000 ^[*11]	1000 ^[*11]	1000 ^[*11]	1000	1000 ^[*11]	-	-	-	-	-	-	-	-	-	-	
J4 Moment/Inertia (Nm/kgm ²)			110.0/4.00 - 110.0/10.8	19/0.77	34.8 / 1.28	34.8 / 1.28	70/4	100.0/4.70 - 115.0/4.70	*14)				*14)		*14)		-- / 0.025 (0.06)	-- / 0.2	
J5 Moment/Inertia (Nm/kgm ²)			110.0/4.00 - 110.0/10.8	15.4/0.50	26.0 / 0.90	26.0 / 0.90	64/4	85.0/4.00	*14)				*14)		*14)		*14)	*14)	
J6 Moment/Inertia (Nm/kgm ²)			60.0/1.50 - 60.0/4.4	6.7/0.10	11.0 / 0.30	11.0 / 0.30	30/2	32/2	*14)				*14)		*14)		*14)	*14)	
Average power consumption [Kw]			1	0.3	0.5	0.5	0.4	0.4	0.2	0.2	0.2	0.2	2.5	2.5	2.5	2.5	2.5	2.5	
PROTECTION	Body Standard/optional		IP54	IP67	IP67	IP67	IP67	IP67	IP20	IP20	IP20	IP20	IP67 / IP69K	IP67 / IP69K	IP67	IP67	IP69K	IP69K	
	Wrist and J3 Arm Standard/optional		IP67	IP67	IP67	IP67	IP67	IP67	IP20	IP20	IP20	IP20	IP69K	IP69K	IP67	IP67	IP69K	IP69K	

• standard ○ on request - not available *7) It is necessary to set a motion speed according to risk assessment of system considering pinching with the surroundings. *10) During short distance motions, the speed may not reach the maximum value stated. *11) 2000 mm/s in high speed mode
 *20) Software option *12) with stand *13) ∅ in mm by height in mm *14) refer to the wrist load diagramm ** Based on ISO9283



SR

PALLETISING

M-710

R-1000

M-410

ROBOT SERIES

Version			iA						iC	iA	iC	iB	iC			iB	
Type			3	3C	3U	6	6C	12	20	50H	80H	110	140H	185	315	500	700
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Compact		●	●	●	●	●	●	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mate Cabinet		-	-	-	-	-	-	-	○	○	-	-	-	-	-	-
	A-Cabinet		-	-	-	-	-	-	-	●	●	●	●	●	●	●	●
	B-Cabinet		-	-	-	-	-	-	-	○	○	○	○	○	○	○	○
Max Load Capacity at wrist (kg)			3	3	3	6	6	12	20	50	80	110	140	185	315	500	700
Reach (mm)			400	400	350	650	650	900	1100	2003	2230	2403	2850	3143	3143	3143	3143
Controlled axes			4	4	4	4	4	4	4	5	5	4	5	4	4	4	4
Repeatability (mm)			± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.015 [J1, J2] ± 0.01 [J3] ± 0.005° [J4]**	± 0.02 [J1, J2] ± 0.01 [J3] ± 0.005° [J4]**	± 0.15	± 0.03**	± 0.05	± 0.2	± 0.05	± 0.05	± 0.5	± 0.5
Mechanical weight (kg)			19	21	27	30	32	53	64	540	610	1030	1200	1600 (1330) ^{*4,5}	1600 (1330) ^{*4,5}	2410 (1910) ^{*4,5}	2700
MOTION RANGE (°)	J1		284	284	450	296	296	290	290	360	360	370	360	360	360	370	360
	J2		290	290	450	300	300	290	290	225	245	125	155	144	144	144	144
	J3		200 mm ^{*16}	200 mm ^{*16}	140 mm	210 mm ^{*16}	210 mm ^{*16}	450 mm optional 300 mm	450 mm optional 300 mm	440	215	140	112	136	136	136	136
	J4		1440	1440	1440	1440	1440	1440	1440	234	20	720	20	720	720	720	540
	J5		-	-	-	-	-	-	-	720	720	-	720	-	-	-	-
	J6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAXIMUM SPEED (°/S)	J1		720	720	610	440	440	440	440	175	185	145	140	140	90	85	60
	J2		780	780	840	700	700	510	500	175	180	130	115	140	100	85	60
	J3		1800 mm/sec	1800 mm/sec	1500 mm/sec	2000 mm/sec	2000 mm/sec	2800 mm/sec	2800 mm/sec	175	180	140	135	140	110	85	60
	J4		3000	3000	3000	2500	2500	2500	1700	175	180	420	135	305	195	200	120
	J5		-	-	-	-	-	-	-	720	500	-	420	-	-	-	-
	J6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E1			-	-	-	-	-	-	-	-	-	-	-	-	-	-	
J4 Moment/Inertia (Nm/kgm ²)			--/0.06	--/0.06	--/0.06	--/0.12	--/0.12	--/0.30	--/0.45	150/6.3	-/48	53	147	88	155	250	490
J5 Moment/Inertia (Nm/kgm ²)			-	-	-	-	-	-	-	68/2.5	-/25	-	53	-	-	-	-
J6 Moment/Inertia (Nm/kgm ²)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average power consumption [Kw]			0.25	0.25	0.25	0.35	0.35	0.45	0.45	2.5	2.5	3	3	3	3	3	3
PROTECTION	Body Standard/optional		IP20	IP54	IP20/IP65	IP20	IP54	IP20 / IP65	IP20 / IP65	IP54/IP67	IP54/IP56	IP54	IP54	IP54	IP54	IP54	IP54
	Wrist and J3 Arm Standard/optional		IP20	IP54	IP20/IP65	IP20	IP54	IP20 / IP65	IP20 / IP65	IP67	IP67	IP54	IP54	IP54	IP54	IP54	IP54



ROBOT SERIES

ARC WELDING

ARC MATE 50

ARC MATE 100

ARC MATE 120

PAINT

PAINT MATE 200

P-40

P-50

P-250

P-350

P-1000

P-20

Opener

P-20

P-35



Version			iD							iA	iA	iB	iB	iA	iA	iB	iB	iA
Type			7L	8L	10L	-	12L	35	-	5L		10L	15	45		*22	*23	
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mate Cabinet		●	○	○	○	○	○	○	●	●	●	-	-	-	-	-	-
	A-Cabinet		-	●	●	●	●	○	●	-	-	-	●	●	●	●	●	●
	B-Cabinet		-	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-
Max Load Capacity at wrist (kg)			7	8	10	12	12	35	25	5	5	10	15	45	15	27-36	27-36	20
Reach (mm)			911	2032	1636	1441	2272	1831	1831	892	1300	1800	2800	2606	2896	1125	1475	4318
Controlled axes			6	6	6	6	6	6	6	6	6	6	6	6	7	3	3	5
Repeatability (mm)			± 0.01**	± 0.03**	± 0.03**	± 0.02**	± 0.03**	± 0.03**	± 0.02**	± 0.03	± 0.03	± 0.05	± 0.07	± 0.06	± 0.08**			± 0.08**
Mechanical weight (kg)			27	180	150	145	250	250	250	37	110	364	530	590	584	190	200	584
MOTION RANGE (°)	J1		360	340 (370)	340 (370)	340 (370)	340 (370)	340 (370)	340 (370)	340	360	320	320	360	220	350	350	220
	J2		245	235	235	235	260	260	260	230	255	240	280	225	150	280	300	370
	J3		430	455	455	455	458	458	458	373	423	404	330	440	240	*24	*24	590
	J4		380	380	380	380	400	400	400	380	380	1080	1080	800	145			270
	J5		250	280 (360) ^(*21)	280 (360) ^(*21)	280 (360) ^(*21)	280 (360) ^(*21)	280 (360) ^(*21)	280 (360) ^(*21)	240	240	1080	1080	250	1440			360
	J6		720	540 (900) ^(*21)	540 (900) ^(*21)	540 (900) ^(*21)	540 (900) ^(*21)	540 (900) ^(*21)	540 (900) ^(*21)	720	720	1080	1080	800	1440			-
	J7		-	-	-	-	-	-	-	-	-	-	-	-	1440			-
MAXIMUM SPEED (°/S)	J1		370	210	260	260	210	180	210	270	220	140	160	180	125	50	50	75
	J2		310	210	240	240	210	180	210	270	190	140	160	180	125	50	50	100
	J3		410	220	260	260	265	200	265	270	240	160	160	180	120	300	300	100
	J4		550	430	430	430	420	350	420	450	450	375	375	250	120			50
	J5		545	450	450	450	450	350	420	450	450	430	430	250	200			50
	J6		1000	720	720	720	720	400	720	720	720	720	545	545	300	200		-
	J7		-	-	-	-	-	-	-	-	-	-	-	-	200			-
J4 Moment/Inertia (Nm/kgm²)			16.6/0.47	16.1/0.63	22.0/0.65	26.0/0.90	22.0/0.65	110.0/4.0	52.0/2.4	11.9/0.3	11.9/0.3	43.35/1.954	65/3	206/28				
J5 Moment/Inertia (Nm/kgm²)			16.6/0.47	16.1/0.63	22.0/0.65	26.0/0.90	22.0/0.65	110.0/4.0	52.0/2.4	11.9/0.3	11.9/0.3	36.86/1.413	55/2.1	206/28	65/3.0			
J6 Moment/Inertia (Nm/kgm²)			9.4/0.15	5.9/0.061	9.8/0.17	11.0/0.30	9.8/0.17	60.0/1.5	32.0/1.2	6.7/0.1	6.7/0.1	4.90/0.025	11.5/0.35	127/20	55/2.1			
J7 Moment/Inertia (Nm/kgm²)														11.5/0.35				
Average power consumption [Kw]			0.5	1	1	1	1	1	1	0.5	0.8	0.8	3.5	3.5	3.5	3.5	3.5	3.5
PROTECTION	Body Standard/optional		IP67/IP69K	IP54	IP54	IP54	IP54	IP54	IP54	*15)	*15)	*15)	*15)	*15)	*15)	*15)	*15)	*15)
	Wrist and J3 Arm Standard/optional		IP67/IP69K	IP67	IP67	IP67	IP67	IP67	IP67	*15)	*15)	*15)	*15)	*15)	*15)	*15)	*15)	*15)

● standard ○ on request - not available [] with hardware and/or software option *15) ATEX certified Cat. II Group 2G and 2D *21) Extended range for external cable type *22) 550 mm inner link arm *23) 900 mm inner link arm *24) Linear axis 385 mm ** Based on ISO9283

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