Automation has a name.

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 50 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.

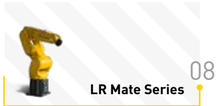


ONE COMMON CONTROL PLATFORM - INFINITE OPPORTUNITIES



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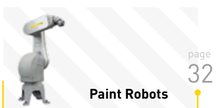
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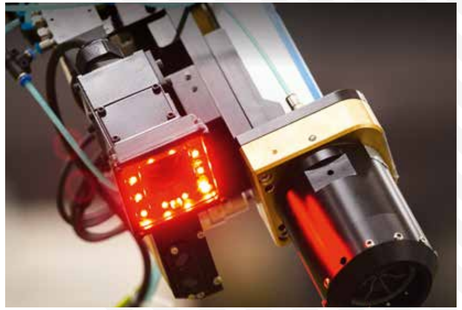
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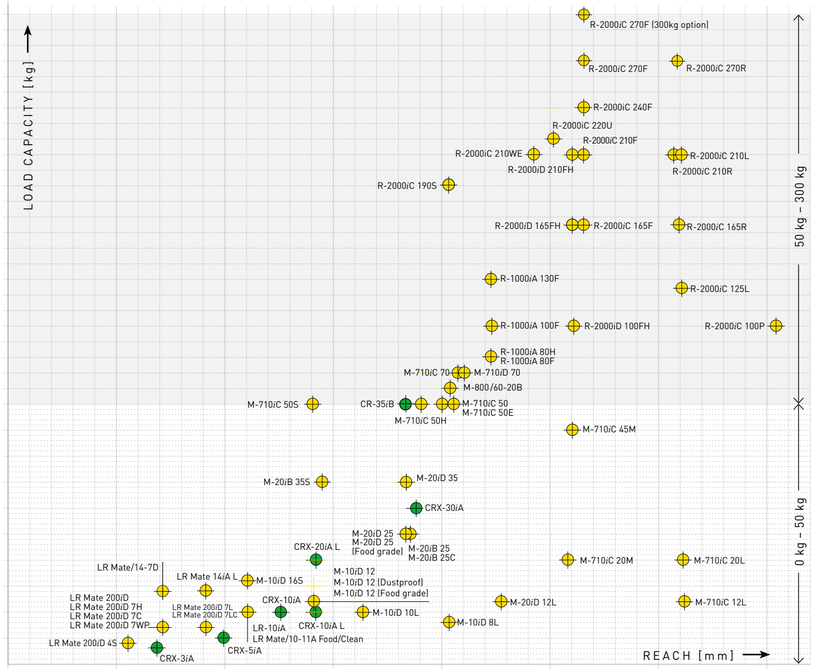
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FIND YOUR ARTICULATED ROBOT

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





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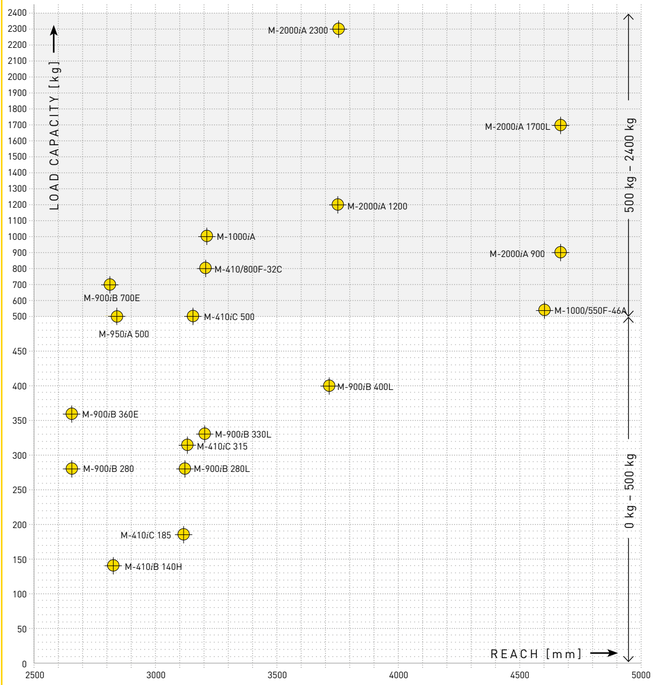


CR Series
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*1) depending on rail specification

FIND YOUR ARTICULATED ROBOT

M-410 | M-900 | M-950 | M-1000 | M-2000





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LR MATE SERIES

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

Max. reach: **1101 mm**

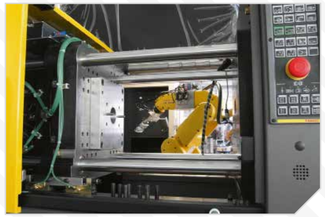


LR Mate 200*i*D

Available robot versions:

LR Mate 200*i*D/4S	Standard model
LR Mate 200*i*D/7H	5-axis
LR Mate 200*i*D/7C	Clean Room, Food grade lubricant
LR Mate 200*i*D/7WP	Washproof
LR Mate 200*i*D	Standard model
LR Mate 200*i*D/7L	Standard model
LR Mate 200*i*D/7LC	Clean Room, Food grade lubricant
LR Mate 200*i*D/14L	Standard model
LR Mate/10-11A Food/Clean	Clean Room, Food grade lubricant
LR Mate/14-7D	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/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
			Version	Cabinet type																									Body	Wrist & J3 arm
Series	Version	Type	R-30iB Plus	R-50iA	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet					J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					standard/ optional	standard/ optional
LR Mate 200	iD	4S	●		-	o	●	-	-	4	550	6	± 0.01**	20	360	230	402	380	240	720	460	460	520	560	560	900	8.86/0.2	8.86/0.2	4.9/0.067	0.5	IP67	IP67
LR Mate 200	iD	7H	●		-	o	●	-	-	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	●		-	o	●	-	-	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		●		-	o	●	-	-	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	●		-	o	●	-	-	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	●		-	o	●	-	-	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	●		-	O	●	-	-	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
LR Mate	10-11A Food/ Clean			●	-	-	●	-	-	10/13*25	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	0.5	IP67	IP67
LR Mate 200	14-7D			●	-	-	●	-	-	14	717	6	± 0.05**	25	360	245	360	245	240	720	450	380	290	230	520	400	31.0/0.66	31.0/0.66	13.4/0.30	0.5	IP67	IP67

● standard　O on request　- not available　[ ] with hardware and/or software option　*17)only for LR Mate 200iD/14L: Max. linear speed 500 mm/sec and only for LR Mate/14-7D: Max. linear speed 1000 mm/sec　*25] optional high payload mode = max. 890 mm operating space　** Based on ISO9283

L-10 SERIES

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

Max. reach: **1101 mm**

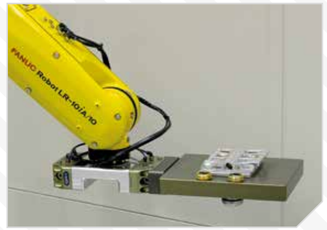


LR-10*i*A/10

Available robot versions:

LR-10*i*A/10	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/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
			Version	Cabinet type																									Body	Wrist & J3 arm
Series	Version	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	J5	J6					standard/ optional	standard/ optional
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　O on request　- not available　[ ] with hardware and/or software option　*3] optional high payload mode = max 890mm operating space　** Based on ISO9283

EDUCATIONAL PACKAGE



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**


M-10*i*D/12

Available robot versions:

M-10*i*D/8L, /10L	Standard model
M-10*i*D/12	Standard model
M-10*i*D/12 (Dustproof)	Dustproof
M-10*i*D/12 (Food grade)	Food grade lubricant
M-10*i*D/16S	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/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
			Version	Cabinet type																									
Series	Version	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	J5	J6					Body standard/ optional	Wrist & J3 arm standard/ optional
M-10	*i*D	8L	●	-	-	o	●	o	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	*i*D	10L	●	-	-	o	●	o	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	*i*D	12	●	-	-	o	●	o	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	*i*D	12 *[18]	●	-	-	o	●	o	12	1441	6	± 0.02**	145	340 [370]	235	455	380	240	540	260	240	260	430	450	720	26.0/0.90	26.0/0.90	11.0/0.30	1	IP67	IP67
M-10	*i*D	12 *[19]	●	-	-	o	●	o	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	*i*D	16S	●	-	-	o	●	o	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 o 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**

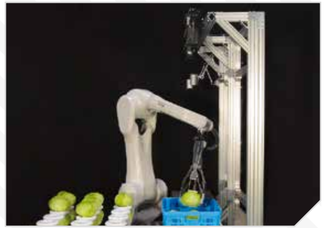


M-20*i*D/12L

Available robot versions:

M-20*i*D/12L	Standard model
M-20*i*B/25	Fully enclosed
M-20*i*B/25C	Clean Room, Food grade lubricant, Dry room
M-20*i*B/35S	Fully enclosed
M-20*i*D/25	Standard model
M-20*i*D/25 (Food grade)	Food grade lubricant
M-20*i*D/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/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	Wrist & J3 arm
			R-30*i*B Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet																							standard/ optional	standard/ optional
M-20	*i*D	12L	●	-	-	o	●	●		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	*i*B	25	●	-	-	o	●	o		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	*i*D	25	●	-	-	o	●	o		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	*i*D	25 *[19]	●	-	-	o	●	o		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	*i*B	25C	●	-	-	o	●	o		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	*i*B	35S	●	-	-	o	●	o		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	*i*D	35	●	-	-	o	●	o		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 ISO9283

M-410 SERIES

Max. load capacity at wrist: **800 kg**

Max. reach: **3203 mm**



M-410*i*C/185

Available robot versions:

M-410*i*B/140H	5-axis
M-410*i*C/110	Standard model
M-410*i*C/185, /315, /500	Standard model
M-410/800F-32C	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/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	Wrist & J3 arm
			R-30*i*B Plus	R-50*i*A	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet																						standard/ optional	standard/ optional
M-410	*i*B	140H	●	-	-	-	-	●	○	140	2850	5	± 0.2	1200	360	155	112	20	720	-	140	115	135	135	420	-	147	53	-	3	IP54	IP54
M-410	*i*C	110	●	-	-	-	-	●	○	110	2403	4	± 0.05**	1030	370	125	140	720	-	-	145	130	140	420	-	-	53	-	-	3	IP54	IP54
M-410	*i*C	185	●	-	-	-	-	●	○	185	3143	4	± 0.05**	1600 [1330][*3]	360	144	136	720	-	-	140	140	140	305	-	-	88	-	-	3	IP54	IP54
M-410	*i*C	315	●	-	-	-	-	●	○	315	3143	4	± 0.05**	1600 [1330][*3]	360	144	136	720	-	-	90	100	110	195	-	-	155	-	-	3	IP54	IP54
M-410	*i*C	500	●	-	-	-	-	●	○	500	3143	4	± 0.05**	2410 [1910][*3]	370	144	136	720	-	-	85	85	85	200	-	-	250	-	-	3	IP54	IP54
M-410	800F-32C		-	●	-	-	-	●	○	800	3203	4	± 0.05**	2500	370	144	136	720	-	-	65	65	65	125	-	-	830	-	-		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-710*i*D/50M

Available robot versions:

M-710*i*C/12L	Hollow wrist
M-710*i*C/20L	Standard model
M-710*i*C/20M, /45M	Standard model
M-710*i*C/50S	Standard model
M-710*i*C/50H	5-axis
M-710*i*C/50, /70	Standard model
M-710*i*C/50E	Offset wrist
M-710*i*D/50M	Standard model
M-710*i*D/70	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/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	Wrist & J3 arm
			R-30*i*B Plus	Compact cabinet	Mini cabinet	Mate cabinet	A-cabinet	B cabinet																					standard/ optional	standard/ optional
M-710	*i*C	12L	●	-	-	o	●	o	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	*i*C	20L	●	-	-	o	●	o	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	*i*C	20M	●	-	-	o	●	o	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	*i*C	45M	●	-	-	o	●	o	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	*i*C	50S	●	-	-	o	●	o	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	*i*C	50H	●	-	-	o	●	o	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	*i*C	50	●	-	-	o	●	o	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	*i*C	50E	●	-	-	o	●	o	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	*i*C	70	●	-	-	o	●	o	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	*i*D	50M	●	-	-	o	●	o	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
M-710	*i*D	70	●	-	-	o	●	o	70	2104	6	± 0.03**	580	370	225	441	720	250	720	180	180	180	260	260	370	300/30	300/30	150/15	2.5	IP54/IP67	IP67

● standard o 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**



M-800/60-20B

Available robot versions:

M-800/60-20B	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/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
Series	Type	Version	Cabinet type										J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					Body	Wrist & J3 arm
		R-50*i*A	Compact Cabinet	Mini Cabinet	Mate cabinet	A-cabinet	B Cabinet																					standard/ optional	standard/ optional
M-800	60-20B	●	-	-	-	●	o	60	2040	6	± 0.015**	820	370	225	340	720	250	720	150	150	150	260	260	400	210/30	210/30	130/20	2,5	IP54	IP67

● standard o 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**



M-900*i*B/700E

Available robot versions:

M-900*i*B/280	High rigidity model
M-900*i*B/360E, /700E	Standard model
M-900*i*B/280L, /330L, /400L	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/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
			Version	Cabinet type																								Body	Wrist & J3 arm
Series	Version	Type	R-30iB Plus	Compact cabinet	Mate cabinet	A-cabinet	B-cabinet							J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					standard/ optional	standard/ optional
M-900	iB	280	●	-	-	●	o		280	2655	6	± 0.1**	1700	370	151	224	720	250	720	110	105	100	110	110	180	1960/260 (460)	1960/260 (460)	1050/160 (360)	3	IP54 /IP56	IP67
M-900	iB	280L	●	-	-	●	o		280	3103	6	± 0.1**	1600	370	151	224	720	250	720	110	105	100	125	125	205	1700/215 (340)	1700/215 (340)	950/140 (260)	3	IP54 /IP56	IP67
M-900	iB	330L	●	-	-	●	o		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	●	-	-	●	o		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 o on request - not available [ ] with hardware and/or software option ** Based on ISO9283

M-950 SERIES

Max. load capacity at wrist: **500 kg**

Max. reach: **2830 mm**



M-950*i*A/500

Available robot versions:

M-950*i*A/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/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
			Version	Cabinet type																								Body	Wrist & J3 arm
Series	Version	Type	R-30iB Plus	Compact cabinet	Mate cabinet	A-cabinet	B-cabinet							J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					standard/ optional	standard/ optional
M-950	iA	500	●	-	-	-	●		500	2830	6	± 0.08**	2500	370	150	395	720	244	720	100	80	80	110	110	170	3420/1100	3420/1100	1850/445	5	IP54	IP67

● standard o 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: **4601 mm**

Available robot versions:

M-1000*i*A	Standard model
M-1000/550F-46A	Standard model



M-1000*i*A





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	Wrist & J3 arm
			R-30*i*B Plus	R-50*i*A	Compact Cabinet	Open air Cabinet	Mate cabinet	A-cabinet	B-cabinet																						standard/ optional	standard/ optional
M-1000	*i*A		●		-	-	-	●	o	1000	3253	6	± 0.1**	5300	360	145	260	720	240	720	60	50	50	70	70	85	8800/1750	8800/1750	5800/840	8	IP54	IP67
M-1000	550F-46A			●	-	-	-	●	o	550	4601	6	± 0.1**	5800	360	145	330	720	240	720	75	60	60	85	85	115	5280/1100	5280/1100	2520/750	8	IP54	IP67

● standard O 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-2000*i*A/900L, /1700L	Standard model
M-2000*i*A/1200, /2300	Standard model



M-2000*i*A/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/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	Wrist & J3 arm
			R-30*i*B Plus		Compact Cabinet	Open air Cabinet	Mate cabinet	A-cabinet	B-cabinet																						standard/ optional	standard/ optional
M-2000	*i*A	900L	●		-	-	-	●	o	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	*i*A	1200	●		-	-	-	●	o	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	*i*A	1700L	●		-	-	-	●	o	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	*i*A	2300	●		-	-	-	●	o	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 O 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-1000*i*A

Available robot versions:

R-1000*i*A/80H	5-axis
R-1000*i*A/80F, /100F	Standard model
R-1000*i*A/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/kgm²]	J5 Moment/ Inertia [Nm/kgm²]	J6 Moment/ Inertia [Nm/kgm²]	Average Power consumption [kW]	Protection	
			Version	Cabinet type																											Body	Wrist & J3 arm
Series	Version	Type	R-30*i*B 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					standard/ optional	standard/ optional
R-1000	*i*A	80H	●	-	-	o	●	o		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	*i*A	80F	●	-	-	o	●	o		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	*i*A	100F	●	-	-	o	●	o		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	*i*A	130F	●	-	-	o	●	o		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 O 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-2000*i*D/210FH

Available robot versions:

R-2000*i*C/100P	Pedestal mount
R-2000*i*C/125L, /210L	Standard model
R-2000*i*D/100FH, /165FH, /210FH	Hollow wrist
R-2000*i*C/220U	Upside down mount
R-2000*i*C/165F, /210F, /240F, /270F	Standard model
R-2000*i*C/165R, /210R, /270R	Rack mount
R-2000*i*C/190S	High accuracy model
R-2000*i*C/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/kgm²]	J5 Moment/ Inertia [Nm/kgm²]	J6 Moment/ Inertia [Nm/kgm²]	Average Power consumption [kW]	Protection	
			Version	Cabinet type																									Body	Wrist & J3 arm
Series	Version	Type	R-30*i*B Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet						J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					standard/ optional	standard/ optional
R-2000	*i*C	100P	●	-	-	-	●	o	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	*i*D	100FH	●	-	-	o	●	o	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	*i*C	125L	●	-	-	o	●	o	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	*i*C	165F	●	-	-	o	●	o	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	*i*D	165FH	●	-	-	o	●	o	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	*i*C	165R	●	-	-	o	●	o	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	*i*C	190S	●	-	-	-	●	o	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	*i*C	210F	●	-	-	o	●	o	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	*i*D	210FH	●	-	-	o	●	o	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	*i*C	210L	●	-	-	-	●	o	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	*i*C	210WE	●	-	-	-	●	o	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	*i*C	210R	●	-	-	o	●	o	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	*i*C	220U	●	-	-	-	●	o	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	*i*C	240F	●	-	-	o	●	o	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	*i*C	270F	●	-	-	-	●	o	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	*i*C	270R	●	-	-	-	●	o	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 O on request - not available [ ] with hardware and/or software option ** Based on ISO9283

COLLABORATIVE SERIES

Max. load capacity at wrist: **35 (50) kg (*21)**

Max. reach: **1889 mm**



CR-35*i*B

CRX-10*i*A/L

Available robot versions:

CRX-3*i*A	Standard model
CRX-5*i*A	Standard model / Food grade model
CRX-10*i*A	Standard model / Food grade model
CRX-10*i*A/L	Standard model / Food grade model
CRX-10*i*A/L Paint	Paint model
CRX-20*i*A/L	Standard model / Food grade model
CRX-30*i*A	Standard model / Food grade model
CR-35*i*B	Standard model

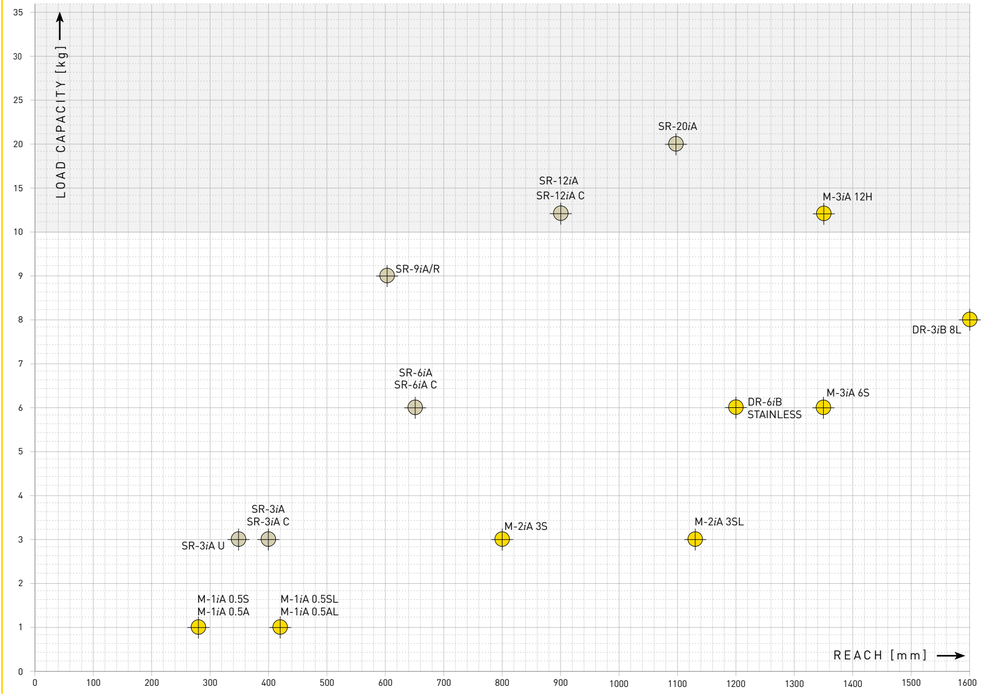




Robot			Controller							Max.load capacity at wrist [kg]	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range (°)						Maximum speed (°/s)						Maximum linear speed (mm/s)*10	J4 Moment/ Inertia (Nm/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
			Version	Cabinet type																									Body	Wrist & J3 arm
Series	Version	Type	R-30*i*B Plus	Mini Plus	Compact cabinet	Open air cabinet	Main cabinet	A-cabinet	B-cabinet						J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6					standard/ optional	standard/ optional
CRX-3	*i*A		●	●	-	-	-	-	-	3	692	6	± 0.02 **	11	400	360	592	380	360	450	130	130	180	225	360	360	1200 [*22]	8.5/0.32	6.5/0.24	4.0/0.08	0.3	IP67	IP67
CRX-5	*i*A		●	●	-	-	-	-	-	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	*i*A		●	●	-	-	-	-	-	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	*i*A	L	●	●	-	-	-	-	-	10	1418	6	± 0.04**	40	360	360	540	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	*i*A	L Paint	●	●	-	-	-	-	-	10	1418	6	± 0.04**	47	360	360	540	380	360	450	120	120	180	180	180	180	1000 [*11]	34.8 / 1.28	26.0 / 0.90	11.0 / 0.30	0.5	IP67	IP67
CRX-20	*i*A	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	*i*A		●	●	-	-	-	-	-	30 (25/40 *20)	1756	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
CR-35	*i*B		●	-	-	-	-	●	o	35 (50 *21)	1831	6	± 0.03**	386	370	215	338	400	280	900							750 [*7]	110/4	110/4	60.0/1.5	1	IP54	IP67

● standard o 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] Max. load capacity when 40 kg payload mode is selected. The wrist flange orientation is limited to downward-facing and operating space is reduced to 1700 mm. The operating space is expanded to 1889 mm when 25 kg payload mode is selected. *21] Software update *22] 2500 mm/s in high speed mode ** Based on ISO9283

FIND YOUR DELTA ROBOT AND SCARA ROBOT





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DELTA ROBOTS

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

Max. reach: **1600 mm**



M-1*i*A Series



M-2*i*A Series



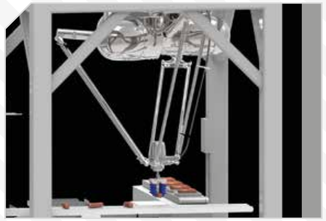
M-3*i*A Series



DR-3*i*B Series

Available robot versions:

M-1*i*A/0.5S	4-axis
M-1*i*A/0.5A	6-axis
M-1*i*A/0.5SL	4-axis
M-1*i*A/0.5AL	6-axis
M-2*i*A/3S	4-axis
M-2*i*A/3SL	4-axis
M-3*i*A/6S	4-axis
M-3*i*A/12H	3-axis
DR-3*i*B/6 STAINLESS	Stainless
DR-3*i*B/8L	4-axis





Robot			Controller							Max.load capacity at wrist [kg]	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
			Version	Cabinet type																									Body	Wrist & J3 arm
Series	Version	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	J5	J6					standard/ optional	standard/ optional
M-1	iA	0.5S	●	-	●	o	-	-		0.5 (1)	280	4	± 0.02	20 [*12]	ø 280 x 100 [*13]	720	-	-	-	-	-	3000	-	-	*14]			0.2	IP20	IP20
M-1	iA	0.5A	●	-	●	o	-	-		0.5 (1)	280	6	± 0.02	23 [*12]	ø 280 x 100 [*13]	720	300	720	-	-	-	1440	1440	1440	*14]			0.2	IP20	IP20
M-1	iA	0.5SL	●	-	●	o	-	-		0.5 (1)	420	4	± 0.03	23 [*12]	ø 420 x 150 [*13]	720	-	-	-	-	-	3000	-	-	*14]			0.2	IP20	IP20
M-1	iA	0.5AL	●	-	●	o	-	-		0.5 (1)	420	6	± 0.03	26 [*12]	ø 420 x 150 [*13]	720	300	720	-	-	-	1440	1440	1440	*14]			0.2	IP20	IP20
M-2	iA	3S	●	-	●	o	o	-		3	800	4	± 0.03**	120	ø 800 x 300 [*13]	720	-	-	-	-	-	3500	-	-	*14]			2.5	IP67 / IP69K	IP69K
M-2	iA	3SL	●	-	●	o	o	-		3	1130	4	± 0.03**	120	ø 1130 x 400 [*13]	720	-	-	-	-	-	3500	-	-	*14]			2.5	IP67 / IP69K	IP69K
M-3	iA	6S	●	-	●	o	o	-		6 (8)	1350	4	± 0.03**	160	ø 1350 x 500 [*13]	720	-	-	-	-	-	4000	-	-	*14]			2.5	IP67	IP67
M-3	iA	12H	●	-	●	o	o	-		12	1350	3	± 0.03**	155	ø 1350 x 500 [*13]	-	-	-	-	-	-	-	-	-	*14]			2.5	IP67	IP67
DR-3	iB	6 (STAIN-LESS)	●	-	●	-	o	-		6	1200	4	± 0.03**	250	ø 1200 x 450 [*13]	720	-	-				1714	-	-	-- / 0.025 (0.06)		*14]	2.5	IP69K	IP69K
DR-3	iB	8L	●	-	●	-	o	-		8	1600	4	± 0.03**	170	ø 1600 x 500 [*13]	720	-	-		10000		2000	-	-	-- / 0.2		*14]	2.5	IP69K	IP69K

● standard O on request - not available [ ] with hardware and/or software option *12] with stand *13] ø in mm by height in mm *14] refer to the wrist load diagramm ** Based on ISO9283

SCARA ROBOT

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

Max. reach: **1100 mm**



SR-3*i*A

Available robot versions:

SR-3*i*A	Standard model
SR-3*i*A/C	Clean Room, Food grade lubricant
SR-3*i*A/U	Upside down
SR-6*i*A	Standard model
SR-6*i*A/C	Clean Room, Food grade lubricant
SR-9*i*A/R	Rack-mount
SR-12*i*A	Standard model, Dry Room
SR-12*i*A/C	Clean Room, Food grade lubricant
SR-20*i*A	Standard model, Dry Room

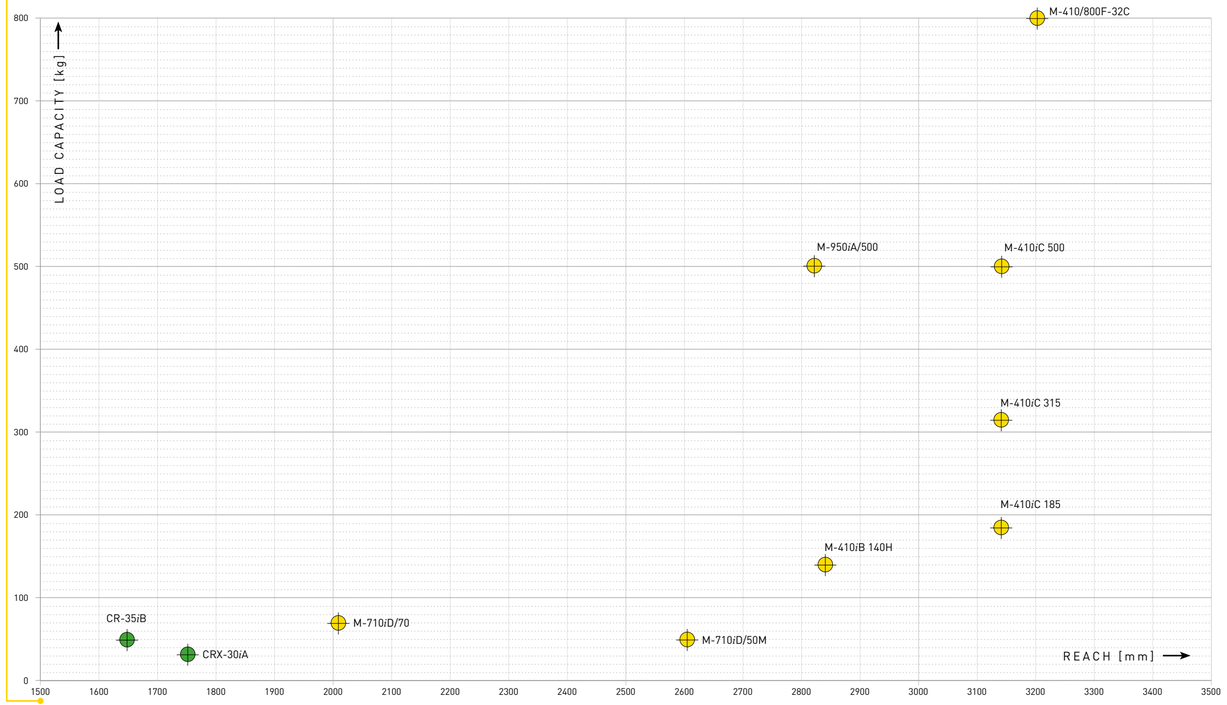




Robot			Controller							Max.load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability [mm] **				Mechanical weight (kg)	Motion range [°]				Maximum speed [°/s]				J4 Moment/ Inertia (Nm/kgm²)	Maximum pushdown force [N]	Average Power consumption (kW)	Protection	
			Version	Cabinet type																								Body	Wrist & J3 arm
Series	Version	Type	R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet					J1	J2	J3	J4		J1	J2	J3	J4	J1	J2	J3	J4				standard/ optional	standard/ optional
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-9	iA	R	●	-	-	●	-	-		9	620	4	± 0.01	± 0.01	± 0.01	± 0.004	76	360	300	200 mm optional 400 mm	1440/ optional endless	560	480	2800 mm/s	2500	--/0.12	-	-	IP20	IP20
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-12	iA	C	●	●	-	-	-	-		12	900	4	± 0.01	± 0.01	± 0.01	± 0.005	56	290	290	450 mm optional 300 mm	1440/ optional endless	440	510	2800 mm/s	2500	--/0.30	250	0.45	IP65	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 O on request - not available [ ] with hardware and/or software option *16] z axis

FIND YOUR PALLETISING ROBOT



PALLETISING ROBOT



Available robot versions:

M-410*i*C/110	Standard model
M-410*i*B/140H	5-axis
M-410*i*C/185, /315, /500	Standard model
M-410/800F-32C	Standard model
M-710*i*D/70	Standard model
M-710*i*D/50M	Standard model
M-950*i*A/500	Standard model
CRX-30*i*A	Standard model
CR-35*i*B	Standard model

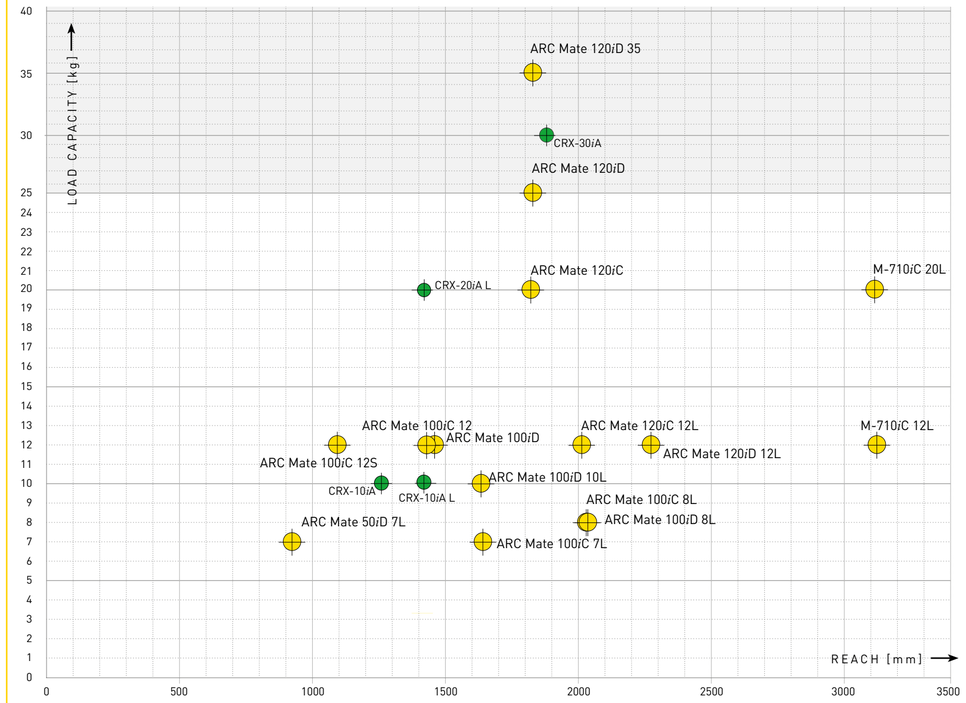




Robot			Controller											Motion range [°]						Maximum speed [°/s]									Protection	
			Version		Cabinet type																									
Series	Version	Type	R-30*i*B Plus	R-50*i*A	Mini Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet	Max.load capacity at wrist [kg]	Reach [mm]	Controlled axes	Repeatability [mm]	Mechanical weight [kg]	J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6	Maximum linear speed [mm/s] *10	J4 Moment/ Inertia [Nm/ kgm²]	J5 Moment/ Inertia [Nm/ kgm²]	J6 Moment/ Inertia [Nm/ kgm²]	Average Power consumption [kW]	Body standard/ optional	Wrist & J3 arm standard/ optional
M-410	*i*C	110	●		-	-	-	-	●	o	110	2403	4	± 0.05**	1030	370	125	140	720	-	-	145	130	140	420	-	-		53	-	-	1	IP54	IP67
M-410	*i*B	140H	●		-	-	-	-	●	o	140	2850	5	± 0.2	1200	360	155	112	20	720	-	140	115	135	135	420	-		147	53	-	3	IP54	IP54
M-410	*i*C	185	●		-	-	-	-	●	o	185	3143	4	± 0.5**	1600[1330]	360	144	136	720	-	-	140	140	140	305	-	-		88	-	-	3	IP54	IP54
M-410	*i*C	315	●		-	-	-	-	●	o	315	3143	4	± 0.05**	1600[1330]	360	144	136	720	-	-	90	100	110	195	-	-		155	-	-	3	IP54	IP54
M-410	*i*C	500	●		-	-	-	-	●	o	500	3143	4	± 0.05	2410[1910]	370	144	136	720	-	-	85	85	85	200	-	-		250	-	-	3	IP54	IP54
M-410		800F-32C		●	-	-	-	-	●	o	800	3203	4	± 0.5	2500	370	144	136	720	-	-	65	65	65	125	-	-		830	-	-		IP54	IP54
M-710	*i*D	50M	●		-	-	-	o	●	o	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
M-710	*i*D	70	●		-	-	-	o	●	o	70	2104	6	± 0.03	580	370	225	441	720	250	720	180	180	180	260	260	370		300/30	300/30	150/15	2.5	IP54/IP67	IP67
M-950	*i*A	500	●		-	-	-	-	-	●	500	2830	6	± 0.08**	2500	370	150	395	720	244	720	100	80	80	110	110	170		3420/1100	3420/1100	1850/445	5	IP54	IP67
CRX-30	*i*A		●		●	-	-	-	-	-	30 (25/40 *20)	1756	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
CR-35	*i*B		●		-	-	-	-	●	o	35/50 *21)	1831	6	± 0.03**	375	370	215	338	400	280	900							750 *7)	110/4	110/4	60.0/1.5	1	IP54	IP67

● standard O 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) Max. load capacity when 40 kg payload mode is selected. The wrist flange orientation is limited to downward-facing and operating space is reduced to 1700 mm. The operating space is expanded to 1889 mm when 25 kg payload mode is selected *21) Software update ** Based on ISO9283

FIND YOUR ARC WELDING ROBOTS





Arc Mate Series. . . . . Page 29



M-710 Series. . . . . Page 30

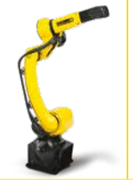


CRX Series . . . . . Page 30

ARC WELDING ROBOTS



ARC Mate 50 Series



ARC Mate 100 Series



ARC Mate 120 Series

Available robot versions:

ARC Mate 50*i*D/7L	Standard model
ARC Mate 100*i*D	Standard model
ARC Mate 100*i*D/8L, /10L	Standard model
ARC Mate 120*i*D	Standard model
ARC Mate 120*i*D/12L	Standard model
ARC Mate 120*i*D/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/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	Wrist & J3 arm
			R-30*i*B Plus	Compact cabinet	Controller cabinet	Mate cabinet	A-cabinet	B-cabinet																					standard/ optional	standard/ optional
ARC Mate 50	*i*D	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	*i*D	8L	●	-	-	o	●	o	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	*i*D	10L	●	-	-	o	●	o	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	*i*D		●	-	-	o	●	o	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	*i*D	12L	●	-	-	o	●	o	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	*i*D	35	●	-	-	o	o	o	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	*i*D		●	-	-	o	●	o	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-710*i*C/12L



CRX-10*i*A/L

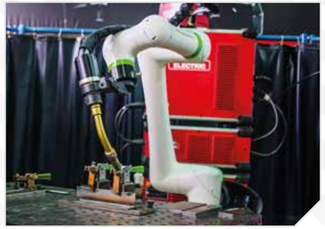


M-710*i*C/20L

Available robot versions:

M-710*i*C/12L	Hollow wrist
M-710*i*C/20L	Standard model
CRX-10*i*A	Standard model
CRX-10*i*A/L	Standard model
CRX-20*i*A/L	Standard model
CRX-30*i*A	Standard model

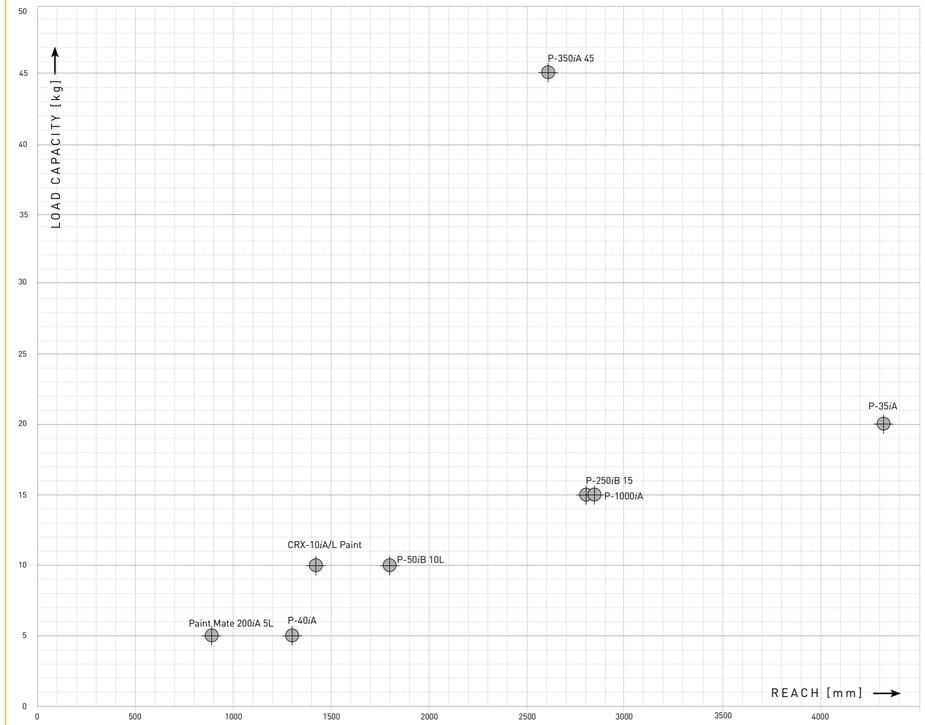




Robot			Controller								Max.load capacity at wrist [kg]	Reach [mm]	Controlled axes	Repeatability [mm]	Mechanical weight [kg]	Motion range [°]						Maximum speed [°/s]						Maximum linear speed [mm/s]	J4 Moment/ Inertia [Nm/kgm²]	J5 Moment/ Inertia [Nm/kgm²]	J6 Moment/ Inertia [Nm/kgm²]	Average Power consumption [kW]	Protection	
			Version	Cabinet type																										Body	Wrist & J3 arm
Series	Version	Type	R-30iB Plus	Mini Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet							J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6						standard/ optional	standard/ optional
M-710	iC	12L	●	-	-	-	o	●	o		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	●	-	-	-	o	●	o		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	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	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		●	●	-	-	-	-	-		30 [25/40 *20]	1756	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		IP67	IP67

● standard O on request - not available [ ] with hardware and/or software option *11] 2000 mm/s in high speed mode *20] Max. load capacity when 40 kg payload mode is selected.
The wrist flange orientation is limited to downward-facing and operating space is reduced to 1700 mm. The operating space is expanded to 1889 mm when 25 kg payload mode is selected. ** 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



P-50 Series



CRX-10*i*A/L Paint



P-1000 Series

Available robot versions:

Paint Mate 200*i*A/5L	Standard model
P-20*i*B	Opener
P-35*i*A	Opener
P-40*i*A	Standard model
P-50*i*B/10L	Standard model
P-250*i*B/15	Standard model
P-350*i*A/45	Standard model
P-1000*i*A	Standard model
CRX-10*i*A/L Paint	Paint 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/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)	Average Power consumption (kW)	Protection	
			Version	Cabinet type																												Body	Wrist & J3 arm
Series	Version	Type	R-30*i*B Plus	Mini 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					standard/ optional	standard/ optional
CRX-10	*i*A	L Paint	●	●	-	-	-	-	-	10	1418	6	± 0.04**	47	360	360	540	380	360	450		120	120	180	180	180	180		1000 [*11]	34.8 / 1.28	26.0 / 0.90	11.0 / 0.30	0.5	IP67	IP67
Paint Mate 200	*i*A	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	*i*A		●	-	-	-	●	-	-	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	*i*B	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	*i*B	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	*i*A	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	*i*A		●	-	-	-	-	●	-	15	2896	7	± 0.08 **	584	220	150	240	145	1440	1440	1440	125	125	120	120	200	200	200				65/3.0	55/2.1	3.5	*15]	
Opener																																		
P-35	*i*A		●	-	-	-	-	●	-	20	4318	5	± 0.08 **	716	220	370	590	270	360			75	100	100	50	50							3.5	*15]	
P-20	*i*B	*22	●	-	-	-	-	●	-	27-36	1125	3		190	350	280	*24																3.5	*15]	
P-20	*i*B	*23	●	-	-	-	-	●	-	27-36	1475	3		200	350	300	*24																3.5	*15]	

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

FANUC

Automation has a name.



Speak automation. Speak partnership. Speak performance.
Speak FANUC and let the global leader
future-proof your entire automation journey.

Discover the world's widest range of products for industrial automation:

WWW.FANUC.EU

CONTROLLER R-30*i*B PLUS



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*RDiagnostics 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

*i*PENDANT TOUCH

The lightweight and ergonomically designed FANUC *i*Pendant Touch with its intuitive *i*HMI 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
- 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 *i*RVision via *i*Pendant
- compliant with industrial safety standards
- *i*HMI with similar look and feel across FANUC products





ENHANCE MACHINE PERFORMANCE WITH FANUC ROBOTS

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

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, threeposition enabling switch, shock resistance, dust and water protected)
- two interfaces available:

New user interface	*i*Pendant user interface
Intuitive interface for beginners with a focus on simple functions for easy operation	Same interface of the *i*Pendant Touch including full specifications and thus ensuring a smooth transition from the traditional *i*Pendant 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



*i*Pendant user interface

CONTROLLER R-50*i*A



A-cabinet
600 x 500 x 470 mm

B-cabinet
600 x 950 x 550 mm

Mate Cabinet
470 x 400 x 322 mm

A new era of powerful performance

Built on 50 years of automation expertise, the R-50*i*A robot controller delivers a powerful upgrade designed to maximise robot performance. New intelligent features, reduced energy consumption and the world's first robot controller to offer cybersecurity make the R-50*i*A the perfect solution for a secure, productive, and sustainable future. Designed for ease of use and minimal energy consumption, the R-50*i*A is available in different enclosures depending on your selected robot model.

Designed to meet your demands of modern manufacturing:

- **Built-in vision enhancements**
  Experience superior image quality with the all-new camera design featuring 5-million-pixel resolution, offering a 4x improvement in 2D camera resolution.
- **Powerful performance**
  Enjoy enhanced signal output and sensor tracking for more accurate and reliable performance.
- **Energy savings**
  Contribute to overall energy conservation and sustainability by utilising the new ECO-MODE.
- **Enhanced cyber security**
  Protect your data exchange with multi-layered defense and new additional security features.
- **Rich development functions**
  Simplify and speed up development with Python, a modern and widely used programming language.
- **Maximise efficiency**
  Leverage Software PLC, eliminating the need for additional hardware and programming with standard tools and modern PLC language support.

LIGHTWEIGHT TEACH PENDANT

The Lightweight Teach Pendant is engineered to support efficient robot programming with minimal strain. Weighing just 750 g, it offers a balanced, ergonomic design that fits comfortably in your hand. Despite its compact form, it features a large, glove-compatible touchscreen that delivers fast, intuitive operation — even in demanding environments.

Designed to support your work:

- **Lightweight and ergonomic**
  At only 750 g, the pendant reduces fatigue and supports extended use without compromising control or precision.
- **Fast, intuitive operation**
  Navigate with ease using familiar pinch and drag gestures. The responsive interface ensures smooth transitions and efficient programming — even in environments with electrical noise, moisture, or cutting fluids.
- **Clear, glove-compatible touchscreen**
  The 6.4" XGA display (1024×768) provides a crisp, easy-to-read interface. The high-sensitivity panel responds accurately, even when operated with protective gloves.



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.

iRPickTool (Visual line tracking)
Part queue management, completely integrated in robot controller to support line tracking on moving conveyors. Combination of integrated FANUC *i*RVision with *i*RPickTool, for higher flexibility when picking random products on a moving conveyor.

iRCalibration suite
*i*RCalibration provide different service functions, by using of *i*RVision 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).

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

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

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

Lightweight Teach Pendant
Weighing just 750 g, this compact, ergonomic pendant offers a large, glove-friendly touchscreen with fast, intuitive operation — making robot programming easy and efficient.

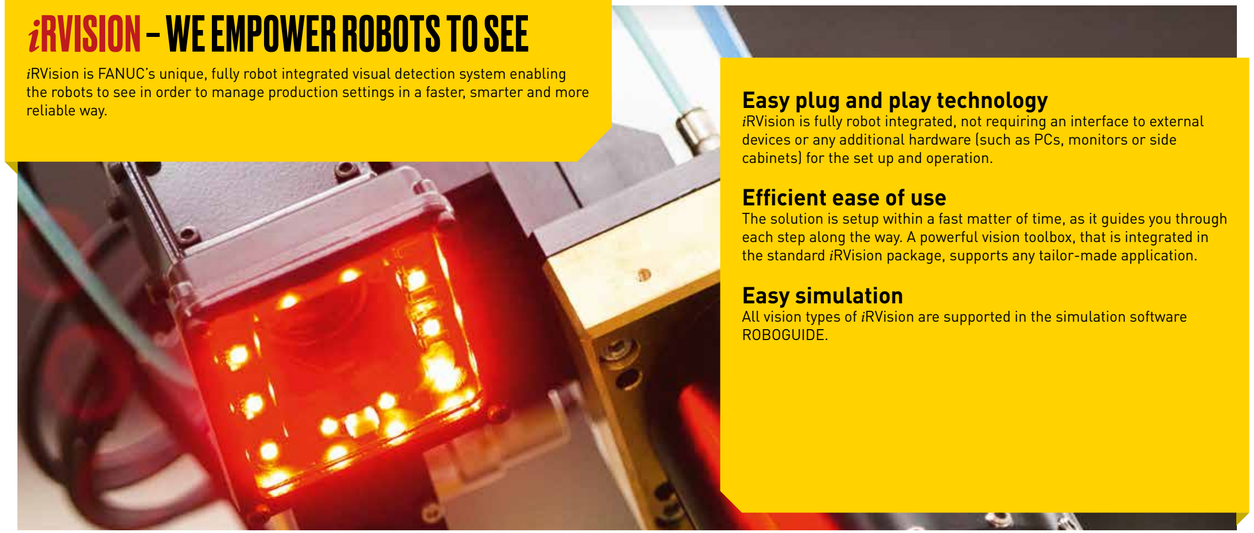
ROBOGUIDE
Simulation software for offline programming, easy setup of robot cell's and feasibility studies with huge library of simulation tools.

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!

*i*RVISION – WE EMPOWER ROBOTS TO SEE

*i*RVision 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

*i*RVision 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 *i*RVision package, supports any tailor-made application.

Easy simulation

All vision types of *i*RVision 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)



***i*RPickTool**

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



***i*RCalibration**

*i*RCalibration functions simplify the initial setup, speeding up the entire integration



***i*RVision Weld Tip Inspection / *i*RTorchMate**

Supports the optical wear and condition control

ZDT (Zero Down Time)



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.

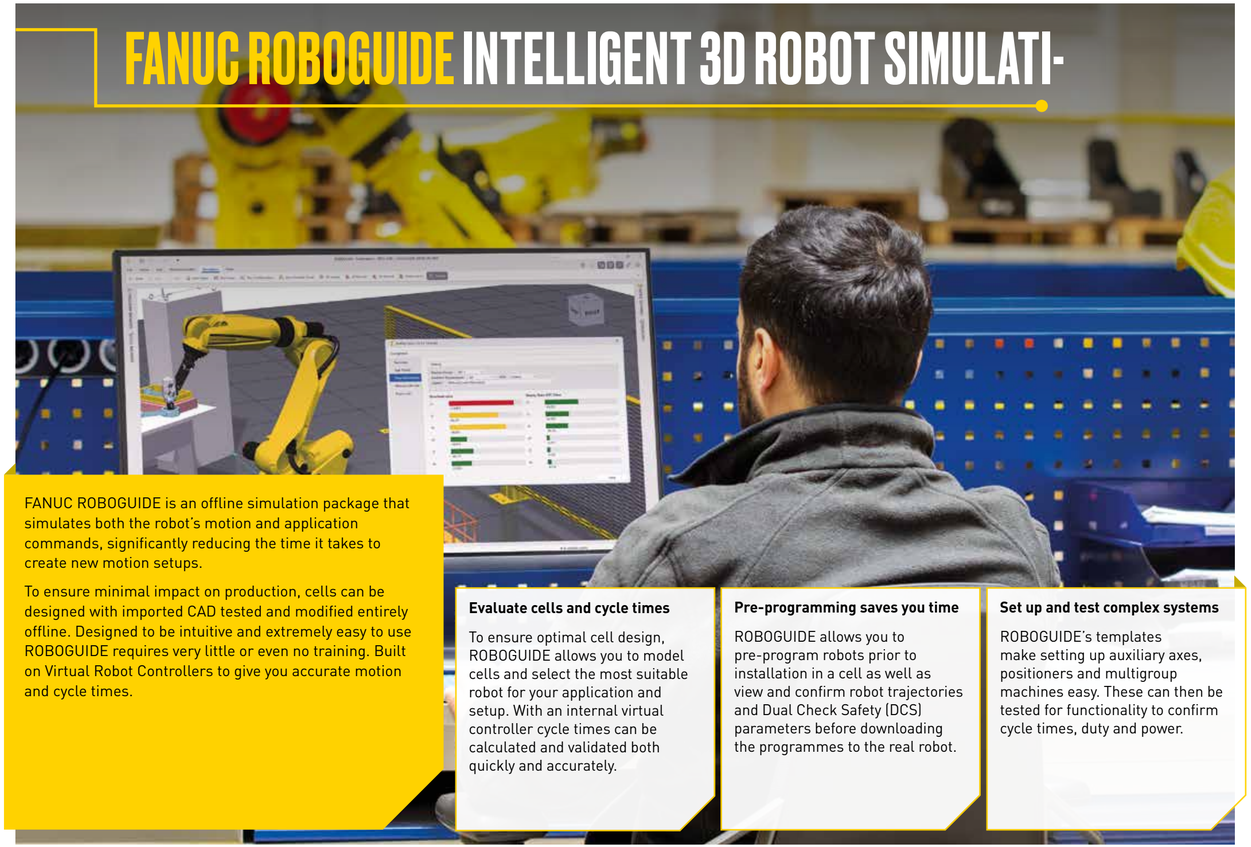
Delivers real time information about:

- **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 *i*RVision 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 SIMULATI-



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

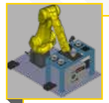
The robot simulator contains a full package of process verification tools including motion, execution and cycle time validation as well as collision detection.

Improvement without downtime

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

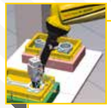
From design to confirmation - Highly accurate interface & specific tools

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.



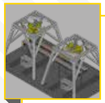
PalletPRO

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.



***i*RPickPRO**

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

Test ROBOGUIDE now

Rely on FANUC Know-how and more than 22 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

Service First

- Lifetime maintenance
- Minimise downtime
- Worldwide support

Reliable, Predictable, Easy to repair



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





LR MATE 200

LR-10













ROBOT SERIES													
Version			iD										iA
Type			4S	7H	7C	7WP	-	7L	7LC	14L *17	10-11A Food/Clean	14-7D	10
CONTROLLER	Controller Version	R-30iB Plus	•	•	•	•	•	•	•	•			•
		R-50iA									•	•	
	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 *25	14	10/13 *3
Reach (mm)			550	717	717	717	717	911	911	911	1101	717	1101
Controlled axes			6	5	6	6	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**	± 0.05 **	± 0.01**
Mechanical weight (kg)			20	24	25	25	25	27	27	27	46	25	46
MOTION RANGE [°]	J1		360	360	360	360	360	360	360	360	370	360	370
	J2		230	245	245	245	245	245	245	245	235	245	235
	J3		402	420	420	420	420	430	430	430	421	360	421
	J4		380	250	380	380	380	380	380	380	380	245	380
	J5		240	720	250	250	250	250	250	250	250	240	250
	J6		720	-	720	720	720	720	720	720	720	720	720
	E1		-	-	-	-	-	-	-	-	-	-	-
MAXIMUM SPEED [°/S]	J1		460	450	450	450	450	370	370	120	300	450	300
	J2		460	380	380	380	380	310	310	61	230	380	230
	J3		520	520	520	520	520	410	410	58	340	290	340
	J4		560	545	550	550	550	550	550	400	500	230	500
	J5		560	1500	545	545	545	545	545	240	400	520	400
	J6		900	-	1000	1000	1000	1000	1000	400	800	400	800
	E1		-	-	-	-	-	-	-	-	-	-	-
J4 Moment/Inertia (Nm/kgm²)			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	31.0/0.66	21.0/0.77
J5 Moment/Inertia (Nm/kgm²)			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	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	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/IP69K	IP67/IP69K	IP67	IP67/IP69K	IP67/IP69K	IP67	IP67	IP67	IP67
	Wirst and J3 Arm Standard/optional		IP67	IP67	IP67/IP69K	IP67/IP69K	IP67	IP67/IP69K	IP67/IP69K	IP67	IP67	IP67	IP67

● standard O on request - not available [ ] with hardware and/or software option *3) optional high payload mode = max. 890 mm operating space *17) only for LR Mate 200iD/14L: Max. linear speed 500 mm/sec and only for LR Mate/14-7D: Max. linear speed 1000 mm/sec *25) optional high payload mode = max. 890 mm operating space ** Based on ISO9283



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		o	o	o	o	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
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		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	458	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]
	E1		-	-	-	-	-	-	-	-	-	-	-	-	-
MAXIMUM SPEED [°/S]	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	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	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	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
	Wirst and J3 Arm Standard/optional		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 *18] Dustproof *19] Food grade *21] Extended range for external cable type ** Based on ISO9283



ROBOT SERIES

			M-410						M-710											M-800
																				
Version			iB	iC					iC										iD	iD	
Type			140H	110	185	315	500	800F-32C	12L	20L	20M	45M	50S	50H	50	50E	70	50M	70	60-20B
CONTROLLER	Controller Version	R-30iB Plus	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	
		R-50iA						•												•
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mate Cabinet		-	-	-	-	-	-	o	o	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	o
Max Load Capacity at wrist (kg)			140	110	185	315	500	800	12	20	20	45	50	50	50	50	70	50	70	60
Reach (mm)			2850	2403	3143	3143	3143	3203	3123	3110	2582	2606	1359	2003	2050	2050	2050	2606	2104	2040
Controlled axes			5	4	4	4	4	4	6	6	6	6	6	5	6	6	6	6	6	6
Repeatability (mm)			± 0.2	± 0.05**	± 0.05**	± 0.05**	± 00.5**	± 0.05**	± 0.09**	± 0.11**	± 0.06**	± 0.06**	± 0.04**	± 0.15	± 0.04**	± 0.07	± 0.04**	± 0.06	± 0.03**	± 0.015**
Mechanical weight (kg)			1200	1030	1600 (1330) *4,5	1600(1330) *4,5	2410 (1910) *4,5	2500	540	540	530	570	545	540	560	560	560	600	580	820
MOTION RANGE [°]	J1		360	370	360	360	370	370	360	360	360	360	360	360	360	360	360	370	370	370
	J2		155	125	144	144	144	144	225	225	225	225	169	225	225	225	225	225	225	225
	J3		112	140	136	136	136	136	434	432	435	440	376	440	440	440	440	440	441	340
	J4		20	720	720	720	720	720	400	400	400	800	720	234	720	720	720	800	720	720
	J5		720	-	-	-	-	-	380	280	280	250	250	720	250	380	250	250	250	250
	J6		-	-	-	-	-	-	720	900	900	800	720	-	720	720	720	800	720	720
	E1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAXIMUM SPEED [°/S]	J1		140	145	140	90	85	65	180	175	175	180	175	175	175	175	160	180	180	150
	J2		115	130	140	100	85	65	180	175	175	180	175	175	175	175	120	180	180	150
	J3		135	140	140	110	85	65	180	180	180	180	175	175	175	175	120	180	180	150
	J4		135	420	305	195	200	125	400	350	350	250	250	175	250	250	225	260	260	260
	J5		420	-	-	-	-	-	430	360	360	250	250	720	250	240	225	260	260	260
	J6		-	-	-	-	-	-	630	600	600	360	355	-	355	340	225	370	370	400
	E1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J4 Moment/Inertia (Nm/kgm²)			147	53	88	155	250	830	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	300/30	210/30
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	300/30	210/30
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	150/15	130/20
Average power consumption (Kw)			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	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	IP54
	Wirst and J3 Arm Standard/optional		IP54	IP54	IP54	IP54	IP54	IP54	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67

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



ROBOT SERIES

			M-900						M-950	M-1000		M-2000				R-1000			
																			
Version			iB						iA	iA		iA				iA			
Type			280	280L	330L	360E	400L	700E	500		550F-46A	900L	1200	1700L	2300	80H	80F	100F	130F
CONTROLLER	Controller Version	R-30iB Plus	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
		R-50iA									•								
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mate Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	o	o	o	o
	A-Cabinet		•	•	•	•	-	-	-	•	•	•	•	•	•	•	•	•	•
	B-Cabinet		o	o	o	o	•	•	•	o	o	o	o	o	o	o	o	o	o
Max Load Capacity at wrist (kg)			280	280	330	360	400	700	500	1000	550	900	1200(1350)	1700	2300	80	80	100	130
Reach (mm)			2655	3103	3203	2655	3704	2832	2830	3253	4601	4683	3734	4683	3734	2230	2230	2230	2230
Controlled axes			6	6	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**	± 0.08**	± 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	2500	5300	5800	9600	8600	12500	11000	610	620	665	675
MOTION RANGE [°]	J1		370	370	370	370	360	360	370	360	360	330	330	330	330	360	360	360	360
	J2		151	151	151	151	154	154	150	145	145	160	160	160	160	245	245	245	245
	J3		224	224	164	224	160	160	395	260	330	165	165	165	165	215	360	360	360
	J4		720	720	720	720	720	720	720	720	720	720	720	720	720	20	720	720	720
	J5		250	250	250	250	244	244	244	240	240	240	240	240	240	720	250	250	250
	J6		720	720	720	720	720	720	720	720	720	720	720	720	720	-	720	720	720
	E1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAXIMUM SPEED [°/S]	J1		110	110	100	100	80	80	100	60	75	45	45	20	20	185	170	130	130
	J2		105	105	85	105	80	80	80	50	60	30	30 [25]	14	14	180	140	110	110
	J3		100	100	85	100	80	80	80	50	60	30	30	14	14	180	160	120	120
	J4		110	125	90	110	100	100	110	70	85	50	50	18	18	180	230	170	170
	J5		110	125	85	110	100	100	110	70	85	50	50	18	18	500	230	170	170
	J6		180	205	165	180	160	160	170	85	115	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	3420/1100	8800/1750	5280/1100	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	3420/1100	8800/1750	5280/1100	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	3420/1100	5800/840	2520/750	4900/2195	4900/2195	8820/5500	8820/5500	-	200/20	260/32	360/38
Average power consumption (Kw)			3	3	3	3	5	5	5	8	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	IP54	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56	IP54 /IP56
	Wirst and J3 Arm Standard/optional		IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67

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



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
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
	Wirst and J3 Arm Standard/optional		IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67

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



CR CRX M-1 M-2 M-3 DR-3



ROBOT SERIES																		
Version			iB	iA										iA		iA		iB
Type			35	3	5	10	10L	10L Paint	20L	30	0.5S	0.5A	0.55L	0.5AL	3S	3SL	6S	12H	6	8L
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Mini Plus		-	-	●	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-
	Compact		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	-	-
	Mate Cabinet		-	-	-	-	-	-	-	-	o	o	o	o	o	o	o	o	-	-
	A-Cabinet		●	●	-	-	-	-	-	-	-	-	-	-	o	o	o	o	●	●
	B-Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max Load Capacity at wrist (kg)			35 [50] [*21]	3	5	10	10	10	20	30 [25/40 *20]	0.5 [1]	0.5 [1]	0.5 [1]	0.5 [1]	3	3	6[8]	12	6	8
Reach (mm)			1831 (1643)	692	994	1249	1418	1418	1418	1756	280	280	420	420	800	1130	1350	1350	1200	1600
Controlled axes			6	6	6	6	6	6	6	6	4	6	4	6	4	4	4	3	4	4
Repeatability (mm)			± 0.03**	± 0.02**	± 0.03**	± 0.04**	± 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	11	25	40	40	47	41	135	20 [*12]	23 [*12]	23 [*12]	26 [*12]	120	120	160	155	250	170
MOTION RANGE [°]	J1		370	400	400	380	360	360	360	360										
	J2		215	360	360	360	360	360	360	360	ø 280x100 [*13]	ø 280x100 [*13]	ø 420x150 [*13]	ø 420x150 [*13]	ø 800x300 [*13]	ø 1130x400 [*13]	ø 1350x500 [*13]	ø 1350x500 [*13]	ø 1200x450 [*13]	ø 1600x500 [*13]
	J3		338	592	635	570	540	540	540	540										
	J4		400	380	380	380	380	380	380	380	720	720	720	720	720	720	720	-	720	720
	J5		280	360	360	360	360	360	360	360	-	300	-	300	-	-	-	-	-	-
	J6		900	450	450	450	450	450	450	450	-	720	-	720	-	-	-	-	-	-
MAXIMUM SPEED [°/S]	J1		750 [*7]	130	150	120	120	120	80	80	-	-	-	-	-	-	-	-	5500 mm/sec	10000 mm/sec
	J2		750 [*7]	130	150	120	120	120	80	80	-	-	-	-	-	-	-	-		
	J3		750 [*7]	180	180	180	180	180	120	120	-	-	-	-	-	-	-	-		
	J4		750 [*7]	225	225	180	180	180	112	180	3000	1440	3000	1440	3500	3500	4000	-	1714	2000
	J5		750 [*7]	360	225	180	180	180	90	180	-	1440	-	1440	-	-	-	-	-	-
	J6		750 [*7]	360	225	180	180	180	112	180	-	1440	-	1440	-	-	-	-	-	-
Maximum linear speed (mm/sec) [*9]			750	1200 [*22]	1000 [*11]	1000 [*11]	1000 [*11]	1000 [*11]	1000	1000 [*11]	-	-	-	-	-	-	-	-	-	-
J4 Moment/Inertia (Nm/kgm²)			110.0/4.00 - 110.0/10.8	8.5/0.32	19/0.77	34.8 / 1.28	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/kgm²)			110.0/4.00 - 110.0/10.8	6.5/0.24	15.4/0.50	26.0 / 0.90	26.0 / 0.90	26.0 / 0.90	64/4	85.0/4.00	*14)				*14)		*14)		*14)	*14)
J6 Moment/Inertia (Nm/kgm²)			60.0/1.50 - 60.0/4.4	4.0/0.08	6.7/0.10	11.0 / 0.30	11.0 / 0.30	11.0 / 0.30	30/2	32/2	*14)				*14)		*14)		*14)	*14)
Average power consumption (Kw)			1	0.3	0.3	0.5	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	IP67	IP67	IP20	IP20	IP20	IP20	IP67 / IP69K	IP67 / IP69K	IP67	IP67	IP69K	IP69K
	Wirst and J3 Arm Standard/optional		IP67	IP67	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 *12) with stand *13) Ø in mm by height in mm
*14) refer to the wrist load diagramm *20) Max. load capacity when 40 kg payload mode is selected. The wrist flange orientation is limited to downward-facing and operating space is reduced to 1700 mm. The operating space is expanded to 1889 mm when 25 kg payload mode is selected. *21) Software update *22) 2500 mm/s in high speed mode ** Based on ISO9283



SR

PALLETISING





















ROBOT SERIES			M-410													M-710	M-950	CRX	CR
Version			iA								iB	iC				iD	iA	iA	iB
Type			3	3C	3U	6	6C	9R	12	12C	20	140H	110	185	315	500	800F-32C	70	500	30	35
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
		R-50iA															●				
	Mini Plus		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
	Compact		●	●	●	●	●	-	●	●	●	-	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mate Cabinet		-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	○	-	-	-
	A-Cabinet		-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	-	-	●
	B-Cabinet		-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	●	-	-
Max Load Capacity at wrist (kg)			3	3	3	6	6	9	12	12	20	140	110	185	315	500	800	70	500	30 (25/40 *29)	35 (50) [*21]
Reach (mm)			400	400	350	650	650	620	900	900	1100	2850	2403	3143	3143	3143	3203	2104	2830	1889	1831 (1643)
Controlled axes			4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	6	6	6	6
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)	± 0.01 (J1,J2 ,J3) ± 0.004* (J4)**	± 0.015(J1,J2) ± 0.01 (J3) ± 0.005* (J4)	± 0.01(J1, J2) ± 0.01 (J3) ± 0.005* (J4)	± 0.02 (J1,J2) ± 0.01 (J3) ± 0.005* (J4)	± 0.2	± 0.05	± 0.05	± 0.05	± 0.5	± 0.05	± 0.03	± 0.08**	± 0.05**	± 0.03**
Mechanical weight (kg)			19	21	27	30	32	76	53	56	64	1200	1030	1600 (1330) [*4,5]	1600 (1330) [*4,5]	2410 (1910) [*4,5]	2500	580	2500	135	386
MOTION RANGE [°]	J1		284	284	450	296	296	360	290	290	290	360	370	360	360	370	370	370	370	360	370
	J2		290	290	450	300	300	308	290	290	290	155	125	144	144	144	144	225	150	360	215
	J3		200 mm*[16]	200 mm*[16]	140 mm	210 mm*[16]	210 mm*[16]	200 mm optional 400 mm	450 mm optional 300 mm	450 mm optional 300 mm	450 mm optional 300 mm	112	140	136	136	136	136	441	395	540	338
	J4		1440	1440	1440	1440	1440	1440	1440	1440 optional endless	1440	20	720	720	720	720	720	720	720	380	400
	J5		-	-	-	-	-	-	-	-	-	720	-	-	-	-	-	250	244	360	280
	J6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	720	720	450	900
MAXIMUM SPEED [°/S]	J1		720	720	610	440	440	560	440	440	440	140	145	140	90	85	65	180	100	80	750 [*7]
	J2		780	780	840	700	700	480	510	510	500	115	130	140	100	85	65	180	80	80	750 [*7]
	J3		1800 mm/sec	1800 mm/sec	1500 mm/sec	2000 mm/sec	2000 mm/sec	2000 mm/sec	2800 mm/sec	2800 mm/sec	2800 mm/sec	135	140	140	110	85	65	180	80	120	750 [*7]
	J4		3000	3000	3000	2500	2500	2500	2500	2500	1700	135	420	305	195	200	125	260	110	180	750 [*7]
	J5		-	-	-	-	-	-	-	-	-	420	-	-	-	-	-	260	110	180	750 [*7]
	J6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	370	170	180	750 [*7]
Maximum linear speed (mm/sec) *[10]																				1000 [*11]	750
J4 Moment/Inertia (Nm/kgm²)			--/0.06	--/0.06	--/0.06	--/0.12	--/0.12	--/0.12	--/0.30	--/0.30	--/0.45	147	53	88	155	250	830	300/30	3420/1100	100.0/4.70 - 115.0/4.70	110.0/4.00 - 110.0/10.8
J5 Moment/Inertia (Nm/kgm²)			-	-	-	-	-	-	-	-	-	53	-	-	-	-	-	300/30	3420/1100	85.0/4.00	110.0/4.00 - 110.0/10.8
J6 Moment/Inertia (Nm/kgm²)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150/15	3420/1100	32/2	60.0/1.50 - 60.0/4.4
Average power consumption (Kw)			0.25	0.25	0.25	0.35	0.35	-	0.45	0.45	0.45	3	3	3	3	3		2.5	5	0.4	1
PROTECTION	Body Standard/optional		IP20	IP54	IP20/IP65	IP20	IP54	IP20	IP20 / IP65	IP65	IP20 / IP65	IP54	IP54	IP54	IP54	IP54	IP54	IP54/IP67	IP54	IP67	IP54
	Wirst and J3 Arm Standard/optional		IP20	IP54	IP20/IP65	IP20	IP54	IP20	IP20 / IP65	IP65	IP20 / IP65	IP54	IP54	IP54	IP54	IP54	IP54	IP67	IP67	IP67	IP67

● standard ○ on request - not available [ ] with hardware and/or software option *4) Pedestal type (with controller) *5] Compact base type (without controller) *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 *16) z axis *21] Software update ** Based on ISO9283



ARC WELDING

PAINT



















ROBOT SERIES			ARC MATE 50	ARC MATE 100			ARC MATE 120			PAINT MATE 200	P-40	P-50	P-250	P-350	P-1000	CRX	Opener P-20		P-35
Version			iD							iA	iA	iB	iB	iA	iA	iA	iB	iB	iA
Type			7L	8L	10L	-	12L	35	-	5L		10L	15	45		10L Paint	*22	*23	
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Mini 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	10	27-36	27-36	20
Reach (mm)			911	2032	1636	1441	2272	1831	1831	892	1300	1800	2800	2606	2896	1418	1125	1475	4318
Controlled axes			6	6	6	6	6	6	6	6	6	6	6	6	7	6	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**	± 0.04**			± 0.08**
Mechanical weight (kg)			27	180	150	145	250	250	250	37	110	364	530	590	584	47	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	360	350	350	220
	J2		245	235	235	235	260	260	260	230	255	240	280	225	150	360	280	300	370
	J3		430	455	455	455	458	458	458	373	423	404	330	440	240	540	*24	*24	590
	J4		380	380	380	380	400	400	400	380	380	1080	1080	800	145	380			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			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	450			-
	J7		-	-	-	-	-	-	-	-	-	-	-	-	1440	-			-
MAXIMUM SPEED [°/S]	J1		370	210	260	260	210	180	210	270	220	140	160	180	125	120	50	50	75
	J2		310	210	240	240	210	180	210	270	190	140	160	180	125	120	50	50	100
	J3		410	220	260	260	265	200	265	270	240	160	160	180	120	180	300	300	100
	J4		550	430	430	430	420	350	420	450	450	375	375	250	120	180			50
	J5		545	450	450	450	450	350	420	450	450	430	430	250	200	180			50
	J6		1000	720	720	720	720	400	720	720	720	545	545	300	200	180			-
	J7		-	-	-	-	-	-	-	-	-	-	-	-	200				-
Maximum linear speed (mm/sec) *[10]			-	-	-	-	-	-	-	-	-	-	-	-	-	1000 [*11]	-	-	-
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		34.8 / 1.28			
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	26.0 / 0.90			
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	11.0 / 0.30			
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	0.5	3.5	3.5	3.5
PROTECTION	Body Standard/optional		IP67/IP69K	IP54	IP54	IP54	IP54	IP54	IP54	*15]	*15]	*15]	*15]	*15]	*15]	IP67	*15]	*15]	*15]
	Wirst and J3 Arm Standard/optional		IP67/IP69K	IP67	IP67	IP67	IP67	IP67	IP67	*15]	*15]	*15]	*15]	*15]	*15]	IP67	*15]	*15]	*15]

● standard ○ on request - not available [ ] with hardware and/or software option *10] During short distance motions, the speed may not reach the maximum value stated. *11] 2000 mm/s in high speed mode *15] ATEX certifi ed 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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