KUKA

Robotics_**Range**



EN

The technical data in the table apply exclusively to standard versions.

1) Refers to intersection of axes 4 and 5
2) Different axis data for ceiling-mounted variants
3) Only available in special versions
4) Complies with IEC 60601-1
5) Also applies to A7
6) Only available in selected countries
7) Provisional values

- A Arctic version down to -30 °C
- CR Suitable for clean rooms
- CR lite Robot with improved ISO class
- CV Covered
- EX For potentially explosive areas
- F Foundry version
- HM Hygienic machine
- HO Food-compatible lubricants
- S Speed
- WP Splash-proof
- HI High Inertia
- EP Electrostatic discharge plus (ESD plus)
- MT Machine tooling

_01

LBR iiwa 14 R820
LBR iiwa 7 R800



_02

LBR Med 14 R820
LBR Med 7 R800



_03

LBR iisy 15 R930
LBR iisy 11 R1300
LBR iisy 8 R930
LBR iisy 6 R1300
LBR iisy 3 R760



_04

KR 3 D1200
KR 3 D1200 HM
KR 3 D1200-2 HM



_05

KR 60 R1200 Z400
KR 20 R1200 Z450
KR 20 R1000 Z450
KR 20 R800 Z450



KR 13 R850 Z340 HO
KR 12 R850 Z400
KR 12 R750 Z400/Z600
KR 12 R650 Z400
KR 6 R700 Z200-2
KR 6 R500 Z200-2

_06

KR 4 R600



_07

KR 10 R1100
KR 10 R900
KR 6 R900
KR 6 R700



_08

KR 10 R1100-2
KR 10 R900-2
KR 6 R900-2
KR 6 R700-2



_09

KR 10 R1440-2
KR 8 R1640-2
KR 6 R1840-2



_10

KR 8 R1440 arc HW-2
KR 8 R1640 arc HW-2
KR 6 R1840 arc HW-2



_11

KR 6 R1440-2 arc HW E
KR 6 R2010-2 arc HW E



_12

KR 22 R1610-2
KR 20 R1810-2
KR 16 R2010-2
KR 16 R1610-2
KR 12 R1810-2
KR 8 R2010-2



_13

KR 20 R1820-2 E



_14

KR 20 R1810-1



_15

KR 8 R2100-2 arc HW



_16

KR 20 R2010 KS-F



_17

KR 70 R2100
KR 50 R2100
KR 50 R2500
KR 30 R2100



_18

KR 20 R3100



_19

KR 120 R2700



_20

KR 300 R2700-2
KR 250 R2700-2
KR 240 R2900-2
KR 210 R3100-2
KR 180 R2900-2
KR 210 R2700-2
KR 150 R3100-2
KR 150 R2700-2
KR 120 R3100-2
KR 120 R2700-2



_21

KR 270 R3100-2 K
KR 210 R3300-2 K
KR 180 R3500-2 K
KR 120 R3900-2 K



_22

KR 160 R1570 nano
KR 120 R1800 nano



_23

KR 500 R2800-2
KR 420 R3100-2
KR 360 R2800-2
KR 340 R3400-2
KR 280 R3100-2
KR 240 R3700-2
KR 240 R3400-2



_24

KR 800 R2800-2
KR 640 R2800-2
KR 560 R3100-2
KR 480 R3700-2
KR 480 R3400-2



_25

KR 1000 titan
KR 1000 L750 titan



_26

KR 40 PA



_27

KR 240 R3200-1 PA
KR 180 R3200-1 PA
KR 120 R3200-1 PA



_28

KR 240 R3200-2 PA
KR 180 R3200-2 PA
KR 140 R3200-2 PA



_29

KR 470 R3200 PA
KR 340 R3200 PA



_30

KR 800 R3200 PA
KR 550 R3200 PA



_31

KR 1000 L950 titan PA
KR 1000 1300 titan PA



_32

KR 120 R3500-2 P



_33

KL 100



_34

KL 250-3



_35

KL 4000



_36

KL 5000





Small Robots

Low Payloads

	_01	_02	_03	_04		_05	_06	_07	_08	_09	_10	_11	_12	_13	_14	_15	_16	
Types	LBR iiwa	LBR Med[4]	LBR iisy	KR DELTA		KR SCARA	KR 4 AGILUS	KR AGILUS-1[3]	KR AGILUS-2	KR CYBERTECH nano	KR CYBERTECH nano ARC	KR CYBERTECH nano ARC E[6]	KR CYBERTECH-2	KR CYBERTECH E	KR CYBERTECH-1	KR CYBERTECH-2 ARC	KR CYBERTECH-1 KS-F	Types
Rated payload	14 kg 7 kg – – – – –	14 kg 7 kg – – – – –	15 kg 11 kg 8 kg 6 kg 3 kg – –	3 kg 3 kg 3 kg – – – –	20 kg 10 kg 10 kg 10 kg – – –	6 kg 6 kg 6 kg 6 kg 3 kg 3 kg –	4 kg – – – – – –	5 kg 5 kg 3 kg 3 kg – – –	10 kg 10 kg 6 kg 6 kg – – –	10 kg 8 kg 6 kg – – – – –	8 kg 8 kg 6 kg – – – – –	6 kg 6 kg – – – – – –	22 kg 20 kg 16 kg 16 kg 12 kg 8 kg –	20 kg – – – – – – –	20 kg – – – – – – –	8 kg – – – – – – –	20 kg – – – – – – –	Rated payload
Maximum payload	– – – – – – –	– – – – – – –	16.41 kg 11.72 kg 8 kg[7] 6 kg[7] 3.34 kg – –	6 kg 6 kg 6 kg – – – –	60 kg 20 kg 20 kg 20 kg – – –	13 kg 12 kg 12 kg 12 kg 6 kg 6 kg –	4.63 kg – – – – – –	10 kg 10 kg 6 kg 6 kg – – –	11.1 kg 11.3 kg 6.7 kg 6.8 kg – – –	14.3 kg 12 kg 9 kg – – – – –	14.5 kg 10.7 kg 12.6 kg – – – – –	9 kg 6.56 kg – – – – – –	27.3 kg 23.9 kg 19.2 kg 20 kg 14.5 kg 9.8 kg –	23.9 kg – – – – – – –	23.9 kg – – – – – – –	9.3 kg – – – – – – –	23.9 kg – – – – – – –	Maximum payload
Rated supplementary load on arm	–	–	–	–	–	–	–	–	–	10 kg	10 kg	10 kg	10 kg	10 kg	10 kg	10 kg	10 kg	Rated supplementary load on arm
Max. reach[1] / Z-stroke	820 mm 800 mm – – – – –	820 mm 800 mm – – – – –	930 mm 1300 mm 930 mm 1300 mm 760 mm – –	600 mm 600 mm 600 mm – – – –	1200 mm 1200 mm 1000 mm 800 mm – – –	850 mm 850 mm 750 mm 650 mm 700 mm 500 mm –	601 mm – – – – – –	1101 mm 901 mm 901 mm 706 mm – – –	1101 mm 901 mm 901 mm 726 mm – – –	1440 mm 1640 mm 1840 mm – – – – –	1450 mm 1441 mm 1641 mm 1843 mm – – – –	1441 mm 2010 mm – – – – – –	1612 mm 1813 mm 2013 mm 1612 mm 1813 mm 2013 mm –	1820 mm – – – – – – –	1813 mm – – – – – – –	2101 mm – – – – – – –	2010 mm – – – – – – –	Max. reach[1] / Z-stroke
Number of axes	7	7	6	4	4	4	6	6	6	6	6	6	6	6	6	6	6	Number of axes
Positioning repeatability	±0.15/0.1 mm	±0.15/0.1 mm	±0.1 mm	±0.05mm	±0.025–0.05 mm	±0.02–0.025 mm	±0.02 mm	±0.03 mm	±0.02 mm	±0.04 mm	±0.04 mm	±0.04 mm	±0.04 mm	±0.04 mm	±0.04 mm	±0.04 mm	±0.04 mm	Positioning repeatability
Weight (robot) approx.	29.9 kg 23.9 kg – – – – –	32.3 kg 25.5 kg – – – – –	43.2 kg 46.3 kg 43.2 kg 46.3 kg 22.8 kg – –	105 kg 95 kg 95 kg – – – –	120 kg 64 kg 64 kg 60 kg – – –	55 kg 51 kg 51 kg 49 kg 22 kg 20 kg –	27 kg – – – – – –	54 kg 52 kg 52 kg 50 kg – – –	55 kg 55 kg 55 kg 53 kg – – –	153 kg 158 kg 162 kg – – – – –	167 kg 172 kg 175 kg – – – – –	195 kg 204 kg – – – – – –	255 kg 255 kg 260 kg 255 kg 255 kg 260 kg –	240 kg – – – – – – –	250 kg – – – – – – –	260 kg – – – – – – –	242 kg – – – – – – –	Weight (robot) approx.
Mounting position	Floor, Ceiling, Wall	Floor, Ceiling, Wall	Floor, Ceiling, Wall, Angle	Ceiling	Floor	Floor	Floor, Ceiling, Wall, Angle	Floor, Ceiling, Wall, Angle	Floor, Ceiling, Wall, Angle	Floor, Ceiling, Wall, Angle	Floor, Ceiling, Wall, Angle	Floor, Ceiling	Floor, Ceiling, Wall, Angle	Floor, Ceiling, Wall, Angle	Floor, Ceiling, Wall, Angle	Floor, Ceiling, Wall, Angle	Floor	Mounting position
Version (optional)	CR	–	–	HM	CR	CR HO	–	CR EX HM WP	HO EP	HO	–	–	–	–	CR F HO	–	F	Version (optional)
Comments	– –	– –	– –	– –	– –	– –	– –	– –	– –	– –	Arc welding –	Arc welding –	– –	– –	– –	Arc welding –	– –	Comments
Axis Data – Range A1	±170°	±170°	±185°	+42°/–109° a)	±140°	±132°/±145° b)	±170°	±170°	±170°	±170°	±170°	±170°	±185°	±185°	±185°	±185°	±125°	Axis Data – Range A1
Range A2	+120°	+120°	+50°/–230°	+42°/–109° a)	±140°	±145°	+40°/–195°	+45°/–190°	+45°/–190°	+65°/–185°	+65°/–185°	+65°/–185°	+65°/–185°	+65°/–185°	+65°/–185°	+65°/–185°	+90°/–120°	A2
Range A3	±170°	±170°	±150°	+42°/–109° a)	–	–	+150°/–115°	+156°/–120°	+156°/–120°	+163°/–137°	+181°/–119°	+178°/–122°	+175°/–138°	+175°/–138°	+175°/–138°	+175°/–138°	+175°/–138°	A3
Range A4	+120°	+120°	+175°	±355° a)	±355°	±355°	±185°	±185°	±185°	±185°	±165°	±165°	±350°	±350°	±350°	±165°	±350°	A4
Range A5	±170°	±170°	±110°	–	–	–	±120°	±120°	±120°	±120°	+140°/–115°	±140°	±130°	±120°	±130°	+140°/–115°	±130°	A5
Range A6	±120°	±120°	±220°	–	–	–	±350°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	A6
Range A7	±175°	±175°	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	A7
Velocity A1	85°/s 98°/s – – – – –	85°/s 98°/s – – – – –	200°/s 200°/s 200°/s[7] 200°/s[7] 200°/s – –	610°/s 168°/s 600°/s – – – –	230°/s 280°/s 350°/s 420°/s – – –	390°/s 400°/s 430°/s 450°/s 420°/s 420°/s –	336°/s – – – – – –	300°/s 300°/s 360°/s 360°/s – – –	300°/s 300°/s 360°/s 360°/s – – –	220°/s 220°/s 220°/s – – – – –	220°/s 220°/s 220°/s – – – – –	230°/s 200°/s – – – – – –	200°/s – – – – – – –	195°/s – – – – – – –	200°/s – – – – – – –	200°/s – – – – – – –	200°/s – – – – – – –	Velocity A1
A2	85°/s 98°/s – – – – –	85°/s 98°/s – – – – –	200°/s 200°/s 200°/s[7] 200°/s[7] 200°/s – –	610°/s 168°/s 600°/s – – – –	260°/s 470°/s 530°/s 590°/s – – –	645°/s 660°/s 660°/s 665°/s 720°/s 720°/s –	336°/s – – – – – –	225°/s 225°/s 300°/s 300°/s – – –	225°/s 225°/s 300°/s 300°/s – – –	210°/s 210°/s 210°/s – – – – –	210°/s 210°/s 210°/s – – – – –	230°/s 165°/s – – – – – –	175°/s – – – – – – –	175°/s – – – – – – –	175°/s – – – – – – –	175°/s – – – – – – –	175°/s – – – – – – –	A2
A3	100°/s 100°/s – – – – –	100°/s 100°/s – – – – –	200°/s 200°/s 200°/s[7] 200°/s[7] 200°/s – –	610°/s 168°/s 600°/s – – – –	– – – – – – –	– – – – – – –	488°/s – – – – – –	225°/s 225°/s 360°/s 360°/s – – –	330°/s 330°/s 360°/s 360°/s – – –	270°/s 270°/s 270°/s – – – – –	270°/s 270°/s 270°/s – – – – –	230°/s 200°/s – – – – – –	190°/s – – – – – – –	180°/s – – – – – – –	190°/s – – – – – – –	190°/s – – – – – – –	190°/s – – – – – – –	A3
A4	75°/s 130°/s – – – – –	75°/s 130°/s – – – – –	230°/s 230°/s 230°/s[7] 230°/s[7] 300°/s – –	840°/s 162°/s 840°/s – – – –	690°/s 1400°/s 1400°/s 1400°/s – – –	2700°/s 2700°/s 2700°/s 2700°/s 2000°/s 2000°/s –	600°/s – – – – – –	381°/s 381°/s 381°/s 381°/s – – –	360°/s 360°/s 450°/s 450°/s – – –	381°/s 381°/s 381°/s – – – – –	430°/s 430°/s 430°/s – – – – –	430°/s 430°/s – – – – – –	430°/s – – – – – – –	360°/s – – – – – – –	430°/s – – – – – – –	430°/s – – – – – – –	430°/s – – – – – – –	A4
A5	130°/s 140°/s – – – – –	130°/s 140°/s – – – – –	260°/s 260°/s 260°/s[7] 260°/s[7] 300°/s – –	– – – – – – –	– – – – – – –	– – – – – – –	529°/s – – – – – –	311°/s 311°/s 388°/s 388°/s – – –	360°/s 360°/s 450°/s 450°/s – – –	311°/s 311°/s 311°/s – – – – –	430°/s 430°/s 430°/s – – – – –	430°/s 430°/s – – – – – –	430°/s – – – – – – –	360°/s – – – – – – –	430°/s – – – – – – –	430°/s – – – – – – –	430°/s – – – – – – –	A5
A6	135°/s 180°/s – – – – –	135°/s 180°/s – – – – –	430°/s 430°/s 430°/s[7] 430°/s[7] 400°/s – –	– – – – – – –	– – – – – – –	– – – – – – –	800°/s – – – – – –	492°/s 492°/s 615°/s 615°/s – – –	433°/s 433°/s 540°/s 540°/s – – –	472°/s 472°/s 472°/s – – – – –	628°/s 628°/s 628°/s – – – – –	630°/s 630°/s – – – – – –	630°/s – – – – – – –	550°/s – – – – – – –	630°/s – – – – – – –	630°/s – – – – – – –	630°/s – – – – – – –	A6

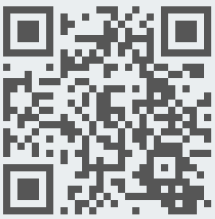
a) not valid for KR 3 D1200 HM b) only KR 13 R850 Z340 HO



	Medium Payloads			High Payloads				Heavy Payloads			
	_17	_18	_19		_20	_21	_22	_23	_24	_25	
Types	KR IONTEC	KR IONTEC	KR IONTEC ultra		KR QUANTEC	KR QUANTEC-K	KR QUANTEC nano	KR FORTEC	KR FORTEC ultra	KR 1000 titan	Types
Rated payload	70 kg	20 kg	120 kg	300 kg	210 kg	270 kg	160 kg	500 kg	800 kg	1000 kg	Rated payload
	50 kg	–	–	250 kg	150 kg	210 kg	120 kg	420 kg	640 kg	750 kg	
	50 kg	–	–	240 kg	150 kg	180 kg	–	360 kg	560 kg	–	
	30 kg	–	–	210 kg	120 kg	120 kg	–	340 kg	480 kg	–	
	–	–	–	180 kg	120 kg	–	–	280 kg	480 kg	–	
	–	–	–	–	–	–	–	240 kg	–	–	
	–	–	–	–	–	–	–	240 kg	–	–	
Maximum payload	85 kg	23.6 kg	153 kg	370 kg	275 kg	344 kg	224 kg	611 kg	972 kg	1000 kg	Maximum payload
	61 kg	–	–	315 kg	220 kg	273 kg	197 kg	527 kg	835 kg	750 kg	
	61 kg	–	–	319 kg	218 kg	228 kg	–	474 kg	681 kg	–	
	36 kg	–	–	281 kg	210 kg	146 kg	–	418 kg	568 kg	–	
	–	–	–	253 kg	167 kg	–	–	358 kg	591 kg	–	
	–	–	–	–	–	–	–	292 kg	–	–	
	–	–	–	–	–	–	–	300 kg	–	–	
Rated supplementary load on arm	20 kg	20 kg	30 kg	50 kg	50 kg	50 kg	50 kg	50 kg	50 kg	50 kg	Rated supplementary load on arm
Max. reach[1] / Z-stroke	2101 mm	3101 mm	2700 mm	2701 mm	2701 mm	3105 mm	1573 mm	2800 mm	2800 mm	3202 mm	Max. reach[1] / Z-stroke
	2101 mm	–	–	2701 mm	3100 mm	3305 mm	1803 mm	3100 mm	2800 mm	3601 mm	
	2501 mm	–	–	2900 mm	2701 mm	3505 mm	–	2800 mm	3100 mm	–	
	2101 mm	–	–	3100 mm	3100 mm	3904 mm	–	3400 mm	3700 mm	–	
	–	–	–	2900 mm	2701 mm	–	–	3100 mm	3400 mm	–	
	–	–	–	–	–	–	–	3750 mm	–	–	
	–	–	–	–	–	–	–	3400 mm	–	–	
Number of axes	6	6	6	6	6	6	6	6	6	6	Number of axes
Positioning repeatability	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.06 mm	±0.08 mm	±0.08 mm	±0.10 mm	Positioning repeatability
Weight (robot) approx.	536 kg	549 kg	773 kg	1101 kg	1077 kg	1260 kg	677 kg	1671 kg	2400 kg	4690 kg	Weight (robot) approx.
	533 kg	–	–	1101 kg	1105 kg	1266 kg	684 kg	1704 kg	2170 kg	4740 kg	
	559 kg	–	–	1120 kg	1072 kg	1256 kg	–	1660 kg	2170 kg	–	
	533 kg	–	–	1134 kg	1105 kg	1280 kg	–	1728 kg	2140 kg	–	
	–	–	–	1105 kg	1069 kg	–	–	1687 kg	2460 kg	–	
	–	–	–	–	–	–	–	1620 kg	–	–	
	–	–	–	–	–	–	–	1597 kg	–	–	
Mounting position	Floor, Ceiling, Wall, Angle	Floor, Ceiling, Wall, Angle	Floor, Ceiling	Floor, Ceiling[2]	Floor	Floor	Floor, Ceiling[2]	Floor	Floor	Floor	Mounting position
Version (optional)	CR lite F HO	CR lite		F HO	F HO	F	–	F HI	MT F HI	F	Version (optional)
Comments	–	–	–	–	–	–	–	–	–	–	Comments
	–	–	–	–	–	–	–	–	–	–	
Axis Data – Range A1	±185°	±185°	±185°	±185°	±185°	±185°	±180°	±185°	±185°	±150°	Axis Data – Range A1
A2	+60°/–175°	+60°/–175°	+60°/–140°	–5°/–140°	–5°/–140°	+70°/–120°	+45°/–145°	+5°/–130°	+20°/–130°	+17.5°/–130°	A2
A3	+165°/–120°	+170°/–120°	+171°/–95°	+168°/–120°	+168°/–120°	+168°/–120°	+150°/–130°	+162°/–110°	+165°/–100°	+145°/–110°	A3
A4	±180°	±350°	±180°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	A4
A5	±125°	±130°	±125°	±122.5°	±125°	±122.5°/±125°	±125°	±120°	±120°	±118°	A5
A6	±350°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	A6
A7	–	–	–	–	–	–	–	–	–	–	A7
Velocity A1	180°/s	180°/s	140°/s	105°/s	120°/s	105°/s	123°/s	100°/s	80°/s	58°/s	Velocity A1
	180°/s	–	–	105°/s	105°/s	105°/s	123°/s	100°/s	90°/s	58°/s	
	175°/s	–	–	103°/s	120°/s	105°/s	–	103°/s	90°/s	–	
	180°/s	–	–	105°/s	120°/s	105°/s	–	100°/s	80°/s	–	
	–	–	–	105°/s	120°/s	–	–	103°/s	90°/s	–	
	–	–	–	–	–	–	–	100°/s	–	–	
	–	–	–	–	–	–	–	103°/s	–	–	
A2	158°/s	165°/s	100°/s	101°/s	115°/s	101°/s	114°/s	80°/s	60°/s	50°/s	A2
	175°/s	–	–	107°/s	107°/s	101°/s	114°/s	80°/s	80°/s	50°/s	
	158°/s	–	–	94°/s	115°/s	101°/s	–	94°/s	80°/s	–	
	165°/s	–	–	94°/s	115°/s	101°/s	–	80°/s	60°/s	–	
	–	–	–	107°/s	115°/s	–	–	97°/s	80°/s	–	
	–	–	–	–	–	–	–	80°/s	–	–	
	–	–	–	–	–	–	–	97°/s	–	–	
A3	160°/s	160°/s	120°/s	107°/s	112°/s	110°/s	86°/s	90°/s	60°/s	50°/s	A3
	175°/s	–	–	107°/s	114°/s	110°/s	86°/s	90°/s	75°/s	50°/s	
	175°/s	–	–	100°/s	120°/s	110°/s	–	100°/s	75°/s	–	
	180°/s	–	–	100°/s	120°/s	110°/s	–	90°/s	60°/s	–	
	–	–	–	114°/s	120°/s	–	–	104°/s	75°/s	–	
	–	–	–	–	–	–	–	90°/s	–	–	
	–	–	–	–	–	–	–	104°/s	–	–	
A4	230°/s	360°/s	210°/s	140°/s	179°/s	140°/s	179°/s	90°/s	90°/s	60°/s	A4
	250°/s	–	–	170°/s	190°/s	140°/s	292°/s	90°/s	90°/s	60°/s	
	250°/s	–	–	170°/s	190°/s	150°/s	–	117°/s	90°/s	–	
	250°/s	–	–	136°/s	190°/s	190°/s	–	90°/s	90°/s	–	
	–	–	–	179°/s	190°/s	–	–	90°/s	90°/s	–	
	–	–	–	–	–	–	–	90°/s	–	–	
	–	–	–	–	–	–	–	120°/s	–	–	
A5	230°/s	360°/s	200°/s	113°/s	172°/s	113°/s	172°/s	100°/s	80°/s	60°/s	A5
	250°/s	–	–	129°/s	180°/s	140°/s	258°/s	100°/s	90°/s	60°/s	
	250°/s	–	–	129°/s	180°/s	180°/s	–	110°/s	90°/s	–	
	250°/s	–	–	129°/s	180°/s	190°/s	–	100°/s	90°/s	–	
	–	–	–	172°/s	180°/s	–	–	100°/s	90°/s	–	
	–	–	–	–	–	–	–	100°/s	–	–	
	–	–	–	–	–	–	–	125°/s	–	–	
A6	320°/s	630°/s	300°/s	180°/s	220°/s	180°/s	220°/s	163°/s	130°/s	72°/s	A6
	360°/s	–	–	206°/s	260°/s	219°/s	284°/s	160°/s	130°/s	72°/s	
	360°/s	–	–	206°/s	260°/s	260°/s	–	163°/s	130°/s	–	
	360°/s	–	–	206°/s	260°/s	260°/s	–	163°/s	140°/s	–	
	–	–	–	219°/s	260°/s	–	–	163°/s	140°/s	–	
	–	–	–	–	–	–	–	163°/s	–	–	
	–	–	–	–	–	–	–	210°/s	–	–	



	Palletizing Robots							Press Linking	Linear Units				
	_26	_27	_28	_29	_30		_31	_32	_33	_34	_35	_36	
Types	KR 40 PA	KR QUANTEC-1 PA[3]	KR QUANTEC-2 PA	KR FORTEC PA	KR FORTEC ultra PA	KR 1000 L950 titan PA	KR 1000 1300 titan PA	KR QUANTEC-2 P	KL 100	KL 250-3	KL 4000	KL 5000	Types
Rated payload	40 kg – – – – – – –	240 kg 180 kg 120 kg – – – – –	240 kg 180 kg 140 kg – – – – –	470 kg 340 kg – – – – – –	800 kg 550 kg – – – – – –	950 kg – – – – – – –	1300 kg – – – – – – –	120 kg – – – – – – –	100 kg – – – – – – –	300 kg – – – – – – –	4000 kg – – – – – – –	5000 kg – – – – – – –	Rated payload
Maximum payload	60 kg – – – – – – –	– – – – – – – –	292 kg 230 kg 180 kg – – – – –	506 kg 413 kg – – – – – –	946 kg 687 kg – – – – – –	950 kg – – – – – – –	1300 kg – – – – – – –	120 kg – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	Maximum payload
Rated supplementary load on arm	20 kg	50 kg	50 kg	50 kg	50 kg	100 kg	100 kg	50 kg	–	–	–	–	Rated supplementary load on arm
Max. reach[1] / Z-stroke	2091 mm – – – – – – –	3195 mm 3195 mm 3195 mm – – – – –	3195 mm 3195 mm 3195 mm – – – – –	3200 mm 3200 mm – – – – – –	3200 mm 3200 mm – – – – – –	3601 mm – – – – – – –	3202 mm – – – – – – –	3505 mm – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	Max. reach[1] / Z-stroke
Number of axes	4	5	5	5	5	4	4	6	1	1	1	1	Number of axes
Positioning repeatability	±0.05 mm	±0.06 mm	±0.07 mm	±0.08 mm	±0.08 mm	±0.10 mm	±0.10 mm	±0.05 mm	±0.02 mm	±0.02 mm	±0.02 mm	±0.02 mm	Positioning repeatability
Weight (robot) approx.	695 kg – – – – – – –	1103 kg 1093 kg 1075 kg – – – – –	1017 kg 1017 kg 1017 kg – – – – –	1590 kg 1590 kg – – – – – –	2320 kg 2050 kg – – – – – –	4740 kg – – – – – – –	4690 kg – – – – – – –	1281 kg – – – – – – –	travel-dependent – – – – – – –	travel-dependent – – – – – – –	travel-dependent – – – – – – –	travel-dependent – – – – – – –	Weight (robot) approx.
Mounting position	Floor	Floor	Floor	Floor	Floor	Floor	Floor	Floor, Ceiling[2]	Floor, Ceiling, Wall	Floor, Ceiling	Floor, Ceiling	Floor	Mounting position
Version (optional)	–	A	HO			F	F	–	–	CV	S	–	Version (optional)
Comments	– –	– –	– –	– –	– –	– –	– –	– –	Axis 7: 0.25–30 m	Axis 7: 1.1–30.1 m	Axis 7: 0.4–30.4 m	Axis 7: 0.3–30.3 m	Comments
Axis Data – Range A1	±155°	±185°	±185°	±185°	±185°	±150°	±150°	±185°	–	–	–	–	A1
Axis Data – Range A2	–15°/–120°	–5°/–140°	–5°/–140°	+5°/–130°	+20°/–130°	+17.5°/–130°	+17.5°/–130°	+70°/–120°	–	–	–	–	A2
Axis Data – Range A3	+145°/+15°	+155°/0°	+165°/0°	+0°/–160°	+160°/–10°	+145°/+62°	+145°/+62°	+168°/–120°	–	–	–	–	A3
Axis Data – Range A4	–	–	–	–	–	–	–	±350°	–	–	–	–	A4
Axis Data – Range A5	–	–	+150°/–55°	±118°	±118°	±118°	±118°	±122.5°	–	–	–	–	A5
Axis Data – Range A6	±350°	±350°	±350°	±350°	±350°	±350°	±350°	±350°	–	–	–	–	A6
Axis Data – Range A7	–	–	–	–	–	–	–	–	–	–	–	–	A7
Axis Data – Velocity A1	183°/s – – – – – – –	105°/s 105°/s 124°/s – – – – –	137°/s 137°/s 137°/s – – – – –	90°/s 100°/s – – – – – –	80°/s 90°/s – – – – – –	58°/s – – – – – – –	58°/s – – – – – – –	112°/s – – – – – – –	Traversing velocity 2.48 m/s – – – – – – –	1.47 m/s – – – – – – –	1.89 m/s – – – – – – –	1.89 m/s – – – – – – –	A1
Axis Data – Velocity A2	153°/s – – – – – – –	101°/s 107°/s 115°/s – – – – –	111°/s 111°/s 111°/s – – – – –	75°/s 90°/s – – – – – –	60°/s 80°/s – – – – – –	50°/s – – – – – – –	50°/s – – – – – – –	107°/s – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	A2
Axis Data – Velocity A3	212°/s – – – – – – –	107°/s 114°/s 112°/s – – – – –	119°/s 119°/s 119°/s – – – – –	75°/s 90°/s – – – – – –	60°/s 75°/s – – – – – –	50°/s – – – – – – –	50°/s – – – – – – –	114°/s – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	A3
Axis Data – Velocity A4	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	150°/s – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	A4
Axis Data – Velocity A5	– – – – – – – –	173°/s 173°/s 217°/s – – – – –	225°/s 225°/s 225°/s – – – – –	90°/s 100°/s – – – – – –	80°/s 90°/s – – – – – –	60°/s – – – – – – –	60°/s – – – – – – –	129°/s – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	A5
Axis Data – Velocity A6	374°/s – – – – – – –	242°/s 242°/s 242°/s – – – – –	321°/s 321°/s 321°/s – – – – –	195°/s 195°/s – – – – – –	195°/s 195°/s – – – – – –	72°/s – – – – – – –	72°/s – – – – – – –	219°/s – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	– – – – – – – –	A6



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