



Robotics\_Range















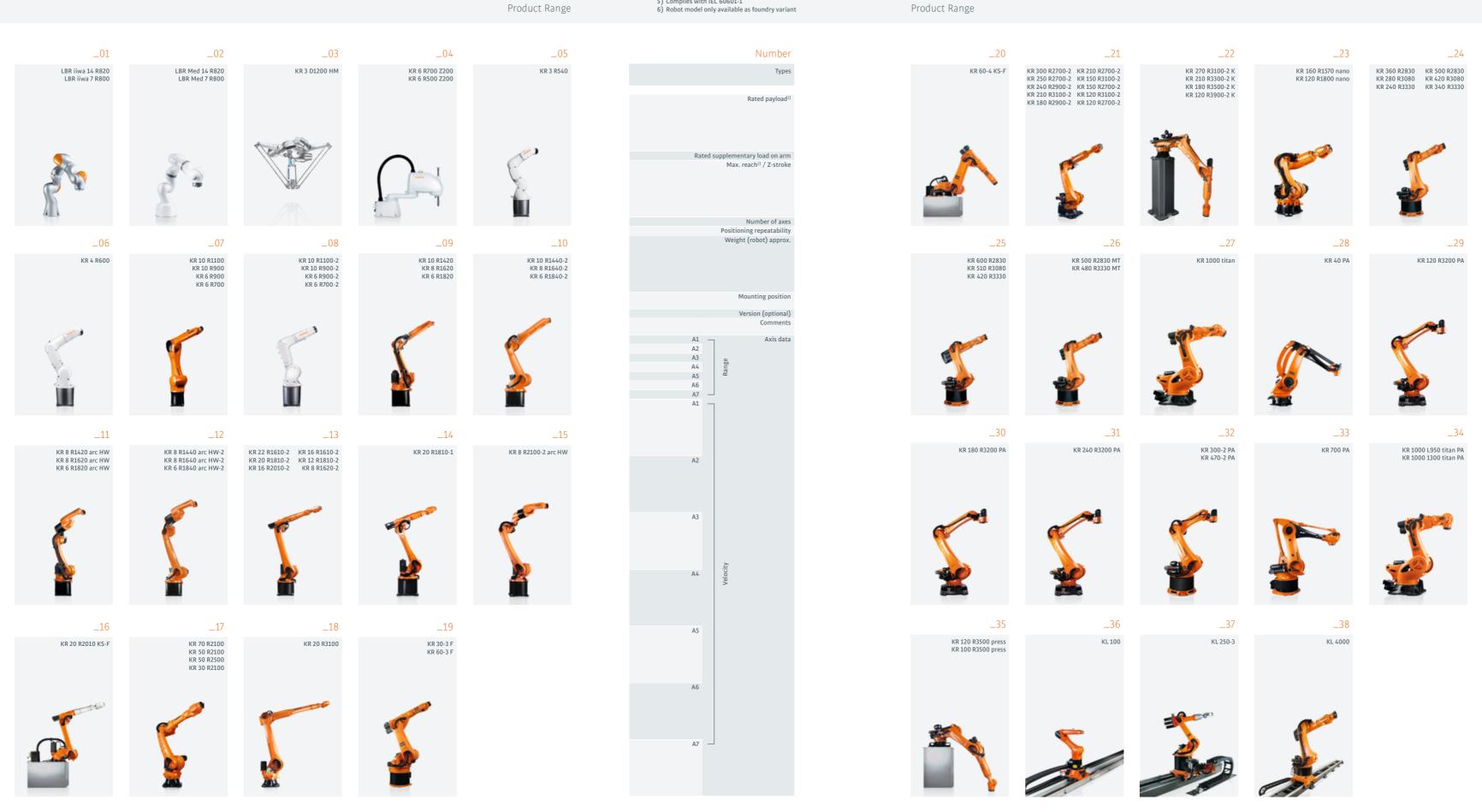






	Small Robots	Low Payloads	Medium Payloads	High Payloads	Heavy Payloads Palletizing Robots	Press Linear Units
Number	_01	_09	_17	_21	_24	_30
Types	LBR iiwa LBR Med <sup>5)</sup> KR DELTA KR SCARA KR 3 AGILUS KR 4 AGILUS KR AGILUS-1 <sup>4)</sup> KR AGILUS-2	KR CYBERTECH KR CYBERTECH KR CYBERTECH KR CYBERTECH KR CYBERTECH-2 KR CYBERTECH-1 KR CYBERTECH-2 KR CYBERTECH-2 KR CYBERTECH-1 KR CYBERTECH-2 KR CYBERTECH-1 KR CYBERTECH-2 KR CYBERTECH-1	KR IONTEC KR 30-3 F KR 60-4 KS-F	KR QUANTEC KR QUANTEC-K KR QUANTEC nano		KR 180 KR 240 KR 300-2 PA KR 470-2 PA KR 700 PA KR 1000 L950 KR 1000 1300 KR QUANTEC KL 100 KL 250-3 KL 4000 R3200 PA R3200 PA titan PA titan PA press
Rated payload <sup>1)</sup>	14 kg     14 kg     3 kg     3 kg     4 kg     10 kg     10 kg       7 kg     7 kg     -     3 kg     -     -     10 kg     10 kg       -     -     -     -     -     6 kg     6 kg       -     -     -     -     -     6 kg     6 kg       -     -     -     -     -     -     -       -     -     -     -     -     -     -       -     -     -     -     -     -     -       -     -     -     -     -     -     -	6 kg 6 kg 6 kg 16 kg 16 kg	70 kg 50 kg 20 kg 30 kg 60 kg <sup>®</sup> 60 kg <sup>®</sup> 50 kg 50 kg 45 kg 45 kg 30 kg 30 kg 30 kg	300 kg 210 kg 270 kg 160 kg 250 kg 150 kg 210 kg 120 kg 240 kg 150 kg 180 kg - 210 kg 120 kg 120 kg - 180 kg 120 kg	240 kg 340 kg 420 kg	180 kg     240 kg     300 kg     470 kg     950 kg     1300 kg     120 kg     100 kg     300 kg     4000 kg       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -     -     -     -       -     <
Rated supplementary load on arm Max. reach <sup>2)</sup> / Z-stroke	820 mm 820 mm 600 mm 700 mm 541 mm 601 mm 1101 mm 901 mm 800 mm - 500 mm - 901 mm 901 mm - 901 mm - 901 mm - 706 mm 726 mm 706 mm 726 mm	1621 mm     1641 mm     1810 mm     -     -     -       1821 mm     1840 mm     1843 mm     2010 mm     -     -     -       -     -     -     1610 mm     -     -     -       -     -     -     1810 mm     -     -     -       -     -     -     2010 mm     -     -     -	20 kg 20 kg 20 kg 35 kg 35 kg 35 kg 2101 mm 2501 mm 3101 mm 2033 mm 2233 mm 2101 mm 2320 mm 2430 mm 2101 mm 2429 mm 2628 mm	50 kg 50 kg 50 kg 50 kg  2701 mm 2701 mm 3105 mm 1573 mm  2701 mm 3300 mm 3305 mm 1803 mm  2900 mm 2701 mm 3505 mm -  3100 mm 3100 mm 3904 mm -  2900 mm 2701 mm -	2826 mm     2826 mm     2826 mm     3202 mm     2091 mm     3195 mm       3076 mm     3076 mm     3326 mm     3601 mm     -     -     -       3326 mm     3326 mm     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -	50 kg         50 kg         50 kg         50 kg         100 kg         100 kg         50 kg         - <t< td=""></t<>
Number of axes Positioning repeatability	7 7 4 4 6 6 6 6 6 6 6 6 6 6 6 6 9.015/±0.1 mm ±0.15/±0.1 mm ±0.1 mm ±0.02 mm ±0.02 mm ±0.02 mm	6 6 6 6 6 6	6 6 6 6 6 6 6 6 6 6 6 ±0.05 mm ±0.05 mm ±0.06 mm ±0.06 mm	6 6 6 6 6 6 6 ±0.05 mm ±0.05 mm ±0.06 mm	6 6 6 6 5	5 5 5 5 4 6 6 6 1 1 1 1 1 ±0.06 mm ±0.08 mm ±0.08 mm ±0.15 mm ±0.10 mm ±0.10 mm ±0.06 mm ±0.02 mm ±0.02 mm
Weight (robot) approx.	29.9 kg 32.3 kg 95 kg 21 kg 26 kg 27 kg 54 kg 55 kg 23.9 kg 25.5 kg - 20 kg 52 kg 54 kg 52 kg 54 kg 50 kg 53 kg	160 kg     153 kg     180 kg     167 kg     263 kg     250 kg     260 kg     242 kg       165 kg     158 kg     172 kg     250 kg     -     -     -       170 kg     162 kg     190 kg     175 kg     270 kg     -     -     -       -     -     -     263 kg     -     -     -       -     -     -     264 kg     -     -     -       -     -     -     270 kg     -     -     -	530 kg     559 kg     549 kg     665 kg     665 kg     600 kg       527 kg     -     -     671 kg     610 kg       527 kg     -     -     679 kg     615 kg       -     -     -     -     -       -     -     -     -     -       -     -     -     -     -       -     -     -     -     -       -     -     -     -     -       -     -     -     -     -	1101 kg 1077 kg 1260 kg 677 kg 1101 kg 1105 kg 1266 kg 684 kg 1120 kg 1072 kg 1256 kg - 1134 kg 1105 kg 1280 kg - 1105 kg 1061 kg - 	2385 kg 2385 kg 2650 kg 2440 kg 4690 kg 695 kg 1075 kg 2415 kg 2415 kg 2680 kg 2475 kg 4740 kg 2421 kg 2421 kg 2686 kg	1093 kg     1103 kg     2150 kg     2850 kg     4740 kg     4690 kg     1240 kg     Travel-     Travel-
Mounting position			Wall, Floor, Wall, Floor, Floor, Ceiling Floor, Ceiling Floor	Floor, Ceiling Floor Floor, Ceiling	Floor, Ceiling Floor Floor Floor Floor Floor	Floor Floor Floor Floor Floor Floor Floor Floor Floor, Ceiling Wall, Floor, Ceiling Cailing
Version (optional) Comments	Ceiling, Angle Ceiling Ceiling, Angle Ceiling, Angle Ceiling Ceiling, Angle  CR - HM EX HM CR WP -	HP CR F HO - F	Ceiling, Angle Ceiling, Angle F F F F F F F F F F F F F F F F F F F			Ceiling  Arctic, HO
Axis data A1	±170° ±170° +40°/-120° ±132° ±170° ±170° ±170° ±170°		±185° ±185° ±185° ±185° ±185° ±150°			0.25-30 m 1.1-30.1 m 0.4-30.4 m ±185° ±185° ±185° ±185° ±185° ±150° ±150° ±185°
A2 20 A3	+120° +120° +40°/-120° ±145° +50°/-170° +40°/-195° +45°/-190° +45°/-190° ±170° ±170° +40°/-120° - +155°/-110° +150°/-115° +156°/-120° +156°/-120°		+60°/-175° +60°/-175° +60°/-175° +35°/-135° +35°/-135° +75°/-105° +165°/-120° +170°/-120° +170°/-120° +158°/-120° +158°/-120° +158°/-120°	-5°/-140° -5°/-140° +70°/-120° +45°/-145° +168°/-120° +168°/-120° +168°/-120° +150°/-130°		-5°/-140° -5°/-140° +20°/-130° +20°/-130° +10°/-120° +17.5°/-130° +17.5°/-130° +70°/-120°
E A4 A5	+120°     +120°     ±255°     ±355°     ±175°     ±185°     ±185°     ±185°       ±170°     ±170°     -     -     ±120°     ±120°     ±120°     ±120°		±180°     ±180°     ±350°     ±350°     ±350°       ±125°     ±125°     ±119°     ±119°     ±119°	±350° ±350° ±350° ±350° ±122.5° ±125° ±122.5°/±125° ±125°		<u>+350°</u>
A6 A7	±120°     ±120°     -     -     ±350°     ±350°     ±350°       ±175°     -     -     -     -     -	±350° ±350° ±350° ±350° ±350° ±350° ±350° ±350° ±350° ± 250° ±350° ±350° ±350° ± 250°	±350° ±350° ±350° ±350° ±350° ±350° ±	±350° ±350° ±350° ±350°		±350°     ±350°     ±350°     ±350°     ±350°     ±350°     ±350°     -
A1	85°/s 85°/s 168°/s 420°/s 530°/s 360°/s 300°/s 300°/s 98°/s 98°/s - 420°/s 300°/s 300°/s		180°/s 175°/s 180°/s 140°/s 128°/s 138°/s 180°/s 128°/s 138°/s	105°/s 120°/s 105°/s 123°/s 105°/s 105°/s 123°/s	100°/s 90°/s 80°/s 45°/s 58°/s – –	105°/s 105°/s 98°/s 84°/s 76°/s 58°/s 58°/s 136°/s Traversing velocity 136°/s 2.5 m/s 1.41 m/s 2.35 m/s
	360°/s 360°/s 360°/s 360°/s 		180°/s 128°/s 138°/s	103°/s 120°/s 105°/s – 105°/s 120°/s 105°/s – 105°/s 120°/s 105°/s –		
				105°/s 120°/s		
A2	85°/s 85°/s 168°/s 720°/s 529°/s 360°/s 255°/s 225°/s 98°/s 98°/s – 720°/s – – 255°/s 225°/s	210°/s 210°/s 210°/s 210°/s 175°/s 175°/s 175°/s 175°/s	158°/s 158°/s 165°/s 126°/s 102°/s 130°/s 175°/s – – 102°/s 130°/s	101°/s 115°/s 101°/s 114°/s 107°/s 107°/s 101°/s 114°/s	90°/s 80°/s 75°/s 45°/s 50°/s 153°/s 115°/s	107°/s 101°/s 91°/s 78°/s 76°/s 50°/s 50°/s 137°/s – – – – 137°/s – – – – – – – – – – – – – – – – – – –
	300°/s 300°/s 300°/s 300°/s	210°/s 210°/s 210°/s	165°/s 102°/s 130°/s	94°/s 115°/s 101°/s – 94°/s 115°/s 101°/s –	90°/s 80°/s 75°/s – – – –	
				107°/s 115°/s		
А3					90°/s 75°/s 70°/s 45°/s 50°/s 212°/s 112°/s	
	100°/s 100°/s 255°/s 330°/s 360°/s 360°/s 360°/s 360°/s	270°/s 270°/s 270°/s	175°/s 128°/s 166°/s 180°/s 128°/s 166°/s	107°/s 114°/s 110°/s 86°/s 100°/s 120°/s 110°/s – 100°/s 120°/s 110°/s –		
				114°/s 120°/s		
A4		381°/s 381°/s 430°/s 430°/s 430°/s 430°/s 430°/s 430°/s	230°/s 250°/s 360°/s 260°/s 260°/s 260°/s			
Λ (e)	130°/s 130°/s - 2000°/s 381°/s 360°/s 381°/s 450°/s 381°/s 450°/s	381°/s 381°/s 430°/s – – – –	250°/s – – 260°/s 260°/s 250°/s – – 260°/s 260°/s	170°/s 190°/s 140°/s 292°/s 170°/s 190°/s 150°/s –	120°/s 90°/s 70°/s – – – –	136º/s
	381º/s 450º/s 			136°/s 190°/s 180°/s – 179°/s 190°/s – –		
AS						
	140°/s 140°/s 311'/s 360°/s 388°/s 450°/s	311°/s 311°/s 430°/s	250°/s	129°/s 180°/s 140°/s 258°/s 129°/s 180°/s 180°/s -	110°/s 83°/s 70°/s 83°/s 60°/s – –	
	388°/s 450°/s 			129°/s 180°/s 180°/s – 172°/s 180°/s – –		
A6	135°/s 135°/s 800°/s 800°/s 492°/s 433°/s 180°/s 180°/s 492°/s 433°/s	492°/s 472°/s 630°/s 628°/s – – – –	320°/s 360°/s 630°/s 322°/s 322°/s 322°/s 360°/s – – 322°/s 322°/s	180°/s 220°/s 180°/s 220°/s 206°/s 260°/s 2199/s 284°/s	160°/s 130°/s 110°/s 130°/s 72°/s	242°/s 242°/s 177°/s 177°/s 168°/s 72°/s 72°/s 206°/s 206°/s
	615°/s 540°/s 615°/s 540°/s 		360°/s 322°/s 322°/s	206°/s 260°/s 260°/s – 206°/s 260°/s – 260°/s – 260°/s – 260°/s – 260°/s		
				219°/s 260°/s		
A7	135°/s 135°/s 180°/s 180°/s					

- Valid for standard version
   Refers to intersection of axes 4 and 5
   Different axis data for ceiling-mounted variants
- 4) Only available in special versions
  5) Complies with IEC 60601-1
- 6) Robot model only available as foundry variant





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## Edition\_January 2021

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