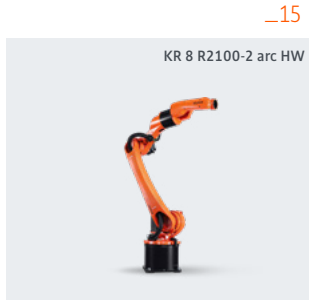
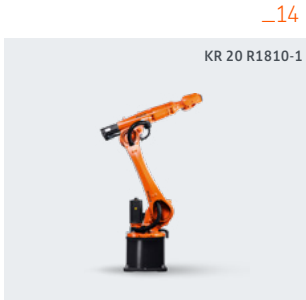
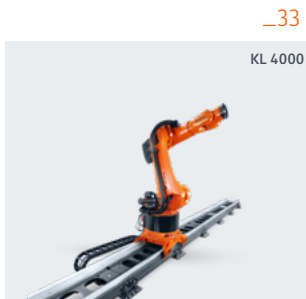
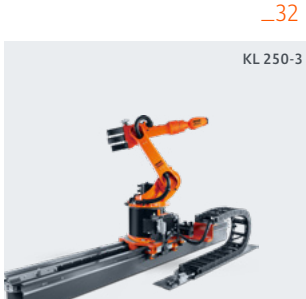
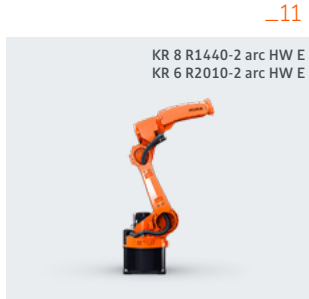
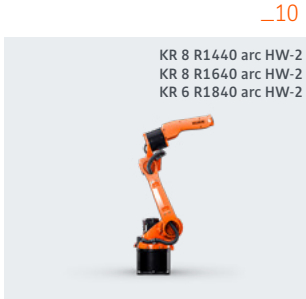
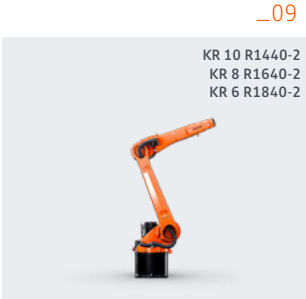
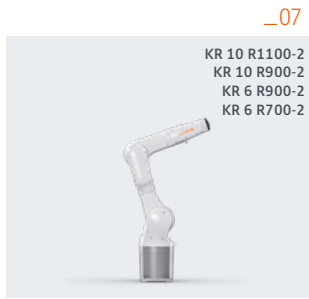
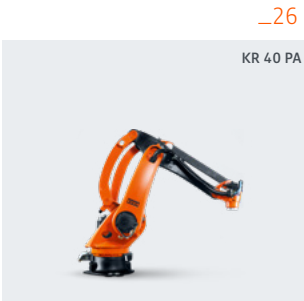
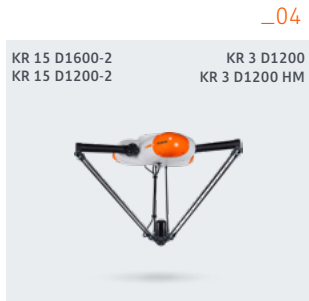
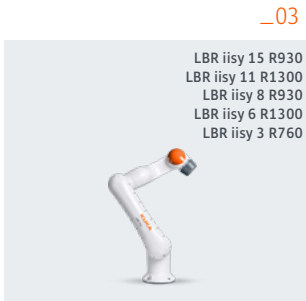
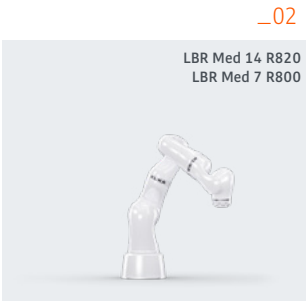
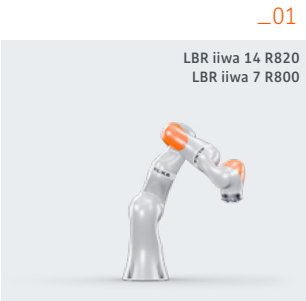


The technical data in the table apply exclusively to standard versions.

- 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



Small Payloads

	–01	–02	–03	–04	–05	–06	–07
Types	LBR iiwa	LBR Med ⁴⁾	LBR iisy	KR DELTA	KR SCARA	KR 4 AGILUS	KR AGILUS-2
Rated payload	14 kg	14 kg	15 kg	8 kg	20 kg	6 kg	10 kg
	7 kg	7 kg	11 kg	8 kg	10 kg	6 kg	10 kg
	–	–	8 kg	3 kg	10 kg	6 kg	6 kg
	–	–	6 kg	3 kg	10 kg	6 kg	6 kg
	–	–	3 kg	–	–	3 kg	–
Maximum payload	–	–	16.41 kg	15 kg	60 kg	13 kg	11.1 kg
	–	–	11.72 kg	15 kg	20 kg	12 kg	11.3 kg
	–	–	8 kg ⁷⁾	6 kg	20 kg	12 kg	6.7 kg
	–	–	6 kg ⁷⁾	6 kg	20 kg	12 kg	6.8 kg
	–	–	3.34 kg	–	–	6 kg	–
Rated supplementary load on arm	–	–	–	–	–	–	–
	820 mm	820 mm	930 mm	1600 mm ⁴⁾	1200 mm / 400 mm	850 mm / 340 mm	1101 mm
	800 mm	800 mm	1300 mm	1200 mm ⁵⁾	1200 mm / 450 mm	850 mm / 400 mm	901 mm
	–	–	930 mm	1200 mm ⁶⁾	1000 mm / 450 mm	750 mm / 600 mm	901 mm
	–	–	1300 mm	1200 mm ⁶⁾	800 mm / 450 mm	650 mm / 400 mm	726 mm
Number of axes	7	7	6	4	4	4	6
	±0.15/0.1 mm	±0.15/0.1 mm	±0.1 mm	±0.05 mm	±0.025–0.05 mm	±0.02–0.025 mm	±0.02 mm
	29.9 kg	32.3 kg	43.2 kg	95 kg	120 kg	55 kg	55 kg
	23.9 kg	25.5 kg	46.3 kg	94.8 kg	64 kg	51 kg	55 kg
	–	–	43.2 kg	105 kg	64 kg	51 kg	55 kg
Mounting position	–	–	46.3 kg	95 kg	60 kg	49 kg	53 kg
	–	–	22.8 kg	–	–	22 kg	–
	–	–	–	–	–	22 kg	–
	–	–	–	–	–	20 kg	–
	–	–	–	–	–	–	–
Version (optional)	CR	–	CR	HM	CR	CR HO	HO EP
Comments	–	–	–	–	–	–	–
Range	A1	±170°	±170°	±185°	±140°	±132°/±145° ⁸⁾	±170°
	A2	±120°	±120°	+50°/–230°	±140°	±145°	+40°/–195°
	A3	±170°	±170°	±150°	–	–	+150°/–115°
	A4	±120°	±120°	±175°	±355° ⁹⁾	±355°	±185°
	A5	±170°	±170°	±110°	–	–	±120°
	A6	±120°	±120°	±220°	–	–	±350°
	A7	±175°	±175°	–	–	–	–
Velocity	A1	85°/s	200°/s	670°/s	230°/s	390°/s	336°/s
	A2	98°/s	200°/s	670°/s	280°/s	400°/s	–
	A3	–	200°/s ⁷⁾	610°/s	350°/s	430°/s	–
	A4	–	200°/s ⁷⁾	168°/s	420°/s	450°/s	–
	A5	–	200°/s	–	–	420°/s	–
	A6	–	–	–	–	420°/s	–
	A7	–	–	–	–	420°/s	–
Velocity	A2	85°/s	200°/s	670°/s	260°/s	645°/s	336°/s
	A3	98°/s	200°/s	670°/s	470°/s	660°/s	–
	A4	–	200°/s ⁷⁾	610°/s	530°/s	660°/s	–
	A5	–	200°/s ⁷⁾	168°/s	590°/s	665°/s	–
	A6	–	200°/s	–	–	720°/s	–
	A7	–	–	–	–	720°/s	–
	A8	–	–	–	–	720°/s	–
Velocity	A3	100°/s	200°/s	670°/s	–	–	488°/s
	A4	100°/s	200°/s	670°/s	–	–	–
	A5	–	200°/s ⁷⁾	610°/s	–	–	–
	A6	–	200°/s ⁷⁾	168°/s	–	–	–
	A7	–	200°/s	–	–	–	–
	A8	–	–	–	–	–	–
	A9	–	–	–	–	–	–
Velocity	A4	75°/s	230°/s	720°/s	690°/s	2700°/s	600°/s
	A5	130°/s	230°/s	720°/s	1400°/s	2700°/s	–
	A6	–	230°/s ⁷⁾	840°/s	1400°/s	2700°/s	–
	A7	–	230°/s ⁷⁾	162°/s	1400°/s	2700°/s	–
	A8	–	300°/s	–	–	2000°/s	–
	A9	–	–	–	–	2000°/s	–
	A10	–	–	–	–	2000°/s	–
Velocity	A5	130°/s	260°/s	–	–	–	529°/s
	A6	140°/s	260°/s	–	–	–	–
	A7	–	260°/s ⁷⁾	–	–	–	–
	A8	–	260°/s ⁷⁾	–	–	–	–
	A9	–	300°/s	–	–	–	–
	A10	–	–	–	–	–	–
	A11	–	–	–	–	–	–
Velocity	A6	135°/s	430°/s	–	–	–	800°/s
	A7	180°/s	430°/s	–	–	–	–
	A8	–	430°/s ⁷⁾	–	–	–	–
	A9	–	430°/s ⁷⁾	–	–	–	–
	A10	–	400°/s	–	–	–	–
	A11	–	–	–	–	–	–
	A12	–	–	–	–	–	–



Medium Payloads

		_17		_18		_19	
Types		KR IONTEC		KR IONTEC		KR IONTEC ultra	
Rated payload		70 kg		20 kg		120 kg	
		50 kg		-		120 kg	
		50 kg		-		90 kg	
		30 kg		-		90 kg	
		-		-		-	
		-		-		-	
Maximum payload		85 kg		23.6 kg		155 kg	
		61 kg		-		162 kg	
		61 kg		-		116 kg	
		36 kg		-		127 kg	
		-		-		-	
		-		-		-	
Rated supplementary load on arm Diameter ¹⁾		20 kg		20 kg		30 kg	
		2101 mm		3101 mm		2702 mm	
		2101 mm		-		2305 mm	
		2501 mm		-		2702 mm	
		2101 mm		-		2305 mm	
		-		-		-	
Number of axes		6		6		6	
		±0.05 mm		±0.05 mm		±0.05 mm	
		536 kg		549 kg		773 kg	
		533 kg		-		751 kg	
		559 kg		-		773 kg	
		533 kg		-		751 kg	
Positioning repeatability Weight (robot) approx.		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
		-		-		-	
Mounting position		Floor, Ceiling, Wall, Angle		Floor, Ceiling, Wall, Angle		Floor, Ceiling	
Version (optional)		CR lite F HO		CR lite		-	
Comment		-		-		-	
Range	A1 A2 A3 A4 A5 A6 A7	±185°		±185°		±185°	
		+60°/-175°		+60°/-175°		+60°/-140°	
		+165°/-120°		+170°/-120°		+171°/-95°	
		±180°		±350°		±180°	
		±125°		±130°		±125°	
		±350°		±350°		±350°	
		-		-		-	
Velocity	A1 A2 A3 A4 A5 A6	180°/s		180°/s		140°/s	
		180°/s		-		-	
		175°/s		-		-	
		180°/s		-		-	
		-		-		-	
		-		-		-	
		158°/s		165°/s		100°/s	
		175°/s		-		-	
		158°/s		-		-	
		165°/s		-		-	
		-		-		-	
		-		-		-	
		160°/s		160°/s		120°/s	
		175°/s		-		-	
		175°/s		-		-	
		180°/s		-		-	
		-		-		-	
		-		-		-	
		230°/s		360°/s		210°/s	
		250°/s		-		-	
		250°/s		-		-	
		250°/s		-		-	
		-		-		-	
		-		-		-	
		230°/s		360°/s		200°/s	
		250°/s		-		-	
		250°/s		-		-	
		250°/s		-		-	
		-		-		-	
		-		-		-	
320°/s		630°/s		300°/s			
360°/s		-		-			
360°/s		-		-			
360°/s		-		-			
-		-		-			
-		-		-			



High Payloads

		–20
		KR QUANTEC
	300 kg	210 kg
	250 kg	150 kg
	240 kg	150 kg
	210 kg	120 kg
	180 kg	–
	–	–
	370 kg	275 kg
	315 kg	220 kg
	319 kg	218 kg
	281 kg	210 kg
	253 kg	–
	–	–
	50 kg	50 kg
	2701 mm	2701 mm
	2701 mm	3100 mm
	2900 mm	2701 mm
	3100 mm	3100 mm
	2900 mm	–
	–	–
	–	–
	6	6
	±0.05 mm	±0.05 mm
	1101 kg	1077 kg
	1101 kg	1105 kg
1120 kg	1072 kg	
1134 kg	1105 kg	
1105 kg	–	
–	–	
–	–	
Floor, Ceiling ²⁾	Floor	
F HO	F HO	
–	–	
±185°	±185°	
–5°/–140°	–5°/–140°	
+168°/–120°	+168°/–120°	
±350°	±350°	
±122.5°	±125°	
±350°	±350°	
–	–	
105°/s	120°/s	
105°/s	105°/s	
103°/s	120°/s	
105°/s	120°/s	
105°/s	–	
–	–	
–	–	
101°/s	115°/s	
107°/s	107°/s	
94°/s	115°/s	
94°/s	115°/s	
107°/s	–	
–	–	
–	–	
107°/s	112°/s	
107°/s	114°/s	
100°/s	120°/s	
100°/s	120°/s	
114°/s	–	
–	–	
–	–	
140°/s	179°/s	
170°/s	190°/s	
170°/s	190°/s	
136°/s	190°/s	
179°/s	–	
–	–	
–	–	
113°/s	172°/s	
129°/s	180°/s	
129°/s	180°/s	
129°/s	180°/s	
172°/s	–	
–	–	
–	–	
180°/s	220°/s	
206°/s	260°/s	
206°/s	260°/s	
206°/s	260°/s	
219°/s	–	
–	–	
–	–	



		_21	
		KR QUANTEC-K	
		270 kg	–
		210 kg	–
		180 kg	–
		120 kg	–
		–	–
		–	–
		344 kg	–
		273 kg	–
		228 kg	–
		146 kg	–
		–	–
		–	–
		50 kg	–
		3105 mm	–
		3305 mm	–
		3505 mm	–
		3904 mm	–
		–	–
		–	–
		6	–
		±0.05 mm	–
		1260 kg	–
		1266 kg	–
		1256 kg	–
		1280 kg	–
		–	–
		–	–
		Floor	–
		F	–
		–	–
		±185°	–
		+70°/–120°	–
		+168°/–120°	–
		±350°	–
		±122.5°/±125°	–
		±350°	–
		105°/s	–
		105°/s	–
		105°/s	–
		–	–
		–	–
		–	–
		101°/s	–
		101°/s	–
		101°/s	–
		–	–
		–	–
		–	–
		110°/s	–
		110°/s	–
		110°/s	–
		–	–
		–	–
		–	–
		140°/s	–
		140°/s	–
		150°/s	–
		190°/s	–
		–	–
		–	–
		113°/s	–
		140°/s	–
		180°/s	–
		190°/s	–
		–	–
		–	–
		180°/s	–
		219°/s	–
		260°/s	–
		260°/s	–
		–	–
		–	–



Palletizing Robots

		_26		_27		_28		_29	
Types		KR 40 PA		KR QUANTEC-2 PA		KR FORTEC PA		KR FORTEC ultra PA	
Rated payload		40 kg		240 kg		470 kg		800 kg	
		-		180 kg		340 kg		550 kg	
		-		140 kg		-		-	
		-		-		-		-	
		-		-		-		-	
Maximum payload		60 kg		292 kg		506 kg		946 kg	
		-		230 kg		413 kg		687 kg	
		-		180 kg		-		-	
		-		-		-		-	
		-		-		-		-	
Rated supplementary load on arm		20 kg		50 kg		50 kg		50 kg	
Diameter ¹⁾		2091 mm		3195 mm		3200 mm		3200 mm	
		-		3195 mm		3200 mm		3200 mm	
		-		3195 mm		-		-	
		-		-		-		-	
		-		-		-		-	
Number of axes		4		5		5		5	
Positioning repeatability		±0.05 mm		±0.07 mm		±0.08 mm		±0.08 mm	
Weight (robot) approx.		695 kg		1017 kg		1590 kg		2320 kg	
		-		1017 kg		1590 kg		2050 kg	
		-		1017 kg		-		-	
		-		-		-		-	
		-		-		-		-	
Mounting position		Floor		Floor		Floor		Floor	
Version (optional)		-		HQ		-		-	
Comments		-		-		-		-	
Axis data	A1	±155°		±185°		±185°		±185°	
	A2	-15°/-120°		-5°/-140°		+5°/-130°		+20°/-130°	
	A3	+145°/+15°		+165°/0°		+160°/0°		+160°/-10°	
	A4	-		-		-		-	
	A5	-		+150°/-55°		+150°/-60°		+120°/-45°	
	A6	±350°		±350°		±350°		±350°	
	A7	-		-		-		-	
Velocity	Range	183°/s		137°/s		90°/s		80°/s	
		-		137°/s		100°/s		90°/s	
		-		137°/s		-		-	
		-		-		-		-	
		-		-		-		-	
	A2	153°/s		111°/s		75°/s		60°/s	
		-		111°/s		90°/s		80°/s	
		-		111°/s		-		-	
		-		-		-		-	
		-		-		-		-	
	A3	212°/s		119°/s		75°/s		60°/s	
		-		119°/s		90°/s		75°/s	
		-		119°/s		-		-	
		-		-		-		-	
		-		-		-		-	
	A4	-		-		-		-	
		-		-		-		-	
		-		-		-		-	
		-		-		-		-	
		-		-		-		-	
	A5	-		225°/s		90°/s		80°/s	
		-		225°/s		100°/s		90°/s	
		-		225°/s		-		-	
		-		-		-		-	
		-		-		-		-	
	A6	374°/s		321°/s		195°/s		195°/s	
		-		321°/s		195°/s		195°/s	
		-		321°/s		-		-	
		-		-		-		-	
		-		-		-		-	



Press Linking

		_30	
KR QUANTEC-2 P			
Rated payload		120 kg	
		-	
		-	
		-	
		-	
Maximum payload		120 kg	
		-	
		-	
		-	
		-	
Rated supplementary load on arm		50 kg	
Diameter ¹⁾		3505 mm	
		-	
		-	
		-	
		-	
Number of axes		6	
Positioning repeatability		±0.05 mm	
Weight (robot) approx.		1281 kg	
		-	
		-	
		-	
		-	
Mounting position		Floor, Ceiling ²⁾	
Version (optional)		-	
Comments		-	
Axis data	A1	±185°	
	A2	+70°/-120°	
	A3	+168°/-120°	
	A4	±350°	
	A5	±122.5°	
	A6	±350°	
	A7	-	
Velocity	Range	112°/s	
		-	
		-	
		-	
		-	
	A2	107°/s	
		-	
		-	
		-	
		-	
	A3	114°/s	
		-	
		-	
		-	
		-	
	A4	150°/s	
		-	
		-	
		-	
		-	
	A5	129°/s	
		-	
		-	
		-	
		-	
	A6	219°/s	
		-	
		-	
		-	
		-	

Linear Units

_31		_32		_33		_34	
KL 100		KL 250-3		KL 4000		KL 5000	
Rated payload	100 kg	300 kg	4000 kg	5000 kg			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
Maximum payload	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
Travel speed	1	1	1	1			
	±0.02 mm	±0.02 mm	±0.02 mm	±0.02 mm			
	travel-dependent	travel-dependent	travel-dependent	travel-dependent			
	-	-	-	-			
	-	-	-	-			
Traveling direction	Floor, Ceiling, Wall	Floor, Ceiling	Floor, Ceiling	Floor			
	-	cv	s	-			
	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			
	-	-	-	-			
	-	-	-	-			
Traveling velocity	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
Traversing velocity	2.48 m/s	1.47 m/s	1.89 m/s	Traversing velocity 1.89 m/s			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
Traversing acceleration	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
Traversing deceleration	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
Traversing jerk	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
Traversing shock	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			
	-	-	-	-			



Mobile platforms

	_35	_36	_37
Types	KMP 250P	KMP 600W	KMP 600P
Rated payload	250 kg	600 kg	600 kg
Dimensions L x W x H	800 x 520 x 300 mm	980 x 686 x 267 mm	980 x 686 x 270 mm
Lift stroke	60 mm (optional)	60 mm	80 mm (optional)
Lift clearance height		25 mm	25 mm
Drive	differential	differential	differential
Navigation	SLAM & QR	QR	SLAM & QR
Laser safety scanners	2 (diagonal)	1 (front, not safe)	2 (diagonal)
Max. speed (w/o load)	2 m/s	2 m/s	2 m/s
Max. speed (w load)	1.5 m/s	1.5 m/s	1.5 m/s
Stopping accuracy	±10 mm, ±1° SLAM ±5 mm, ±0.5° QR	±5 mm, ±0.5°	±10 mm, ±1° SLAM ±5 mm, ±0.5° QR
Battery	LFP	LFP	LFP
Battery endurance	8 h	8 h	8 h
IP protection class	IP24	IP20	IP54
Operating temperature	0–45°C	0–45°C	0–45°C
Certification	CE, NRTL, FCC, CR	CE DOI, NRTL, FCC	CE, NRTL, FCC
Integrated lift	optional	yes	optional
3D cameras	1 front	–	1 front/1 rear
Obstacle avoidance	yes	yes	yes
360° bumper	yes	yes	yes
Display	Virtual display	Touch display	Touch display
Load detection camera	yes	yes	yes
5G	optional	–	optional
Sleepmode module	optional	–	optional
Load detection sensor	yes	–	yes
Compatible robots	–	–	–

Mobile robotics

	_38	_39	_40
	KMP 1500P	KMP 3000P	KMR iiwy
Rated payload	1500 kg	3000 kg	200 kg
Dimensions L x W x H	1300 x 900 x 263 mm	2200 x 1200 x 370 mm	1150 x 695 x 700 mm (without robot)
Lift stroke	60 mm (optional)	100 mm	–
Lift clearance height	25 mm	–	–
Drive	differential	omnidirectional	differential
Navigation	SLAM & QR	SLAM & QR	SLAM & QR
Laser safety scanners	2 (diagonal)	2 (diagonal)	2 (diagonal)
Max. speed (w/o load)	1.8 m/s	1.2 m/s	1.5 m/s
Max. speed (w load)	1.5 m/s	1 m/s	up to 1.5 m/s
Stopping accuracy	±10 mm, ±1° SLAM ±5 mm, ±0.5° QR	±15 mm, ±1° SLAM ±5 mm, ±0.5° QR	±15 mm, ±1°
Battery	LFP	LFP	Li-ion
Battery endurance	10 h	6–8 h	8 h
IP protection class	IP54	IP54	IP54
Operating temperature	0–45°C	5–45°C	10–40°C
Certification	CE, NRTL, FCC	CE, NRTL, FCC	CE DOI, NRTL, FCC, CR
Integrated lift	optional	yes	–
3D cameras	2 front/1 rear	4 (1 in each direction)	4 (optional)
Obstacle avoidance	yes	yes	yes
360° bumper	yes	yes	–
Display	Touch display	Touch display	smartPAD or smartPLUG
Load detection camera	yes	yes	–
5G	optional	optional	–
Sleepmode module	optional	optional	–
Load detection sensor	yes	yes	–
Compatible robots	–	–	LBR iiwy 15 R930 LBR iiwy 11 R1300





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