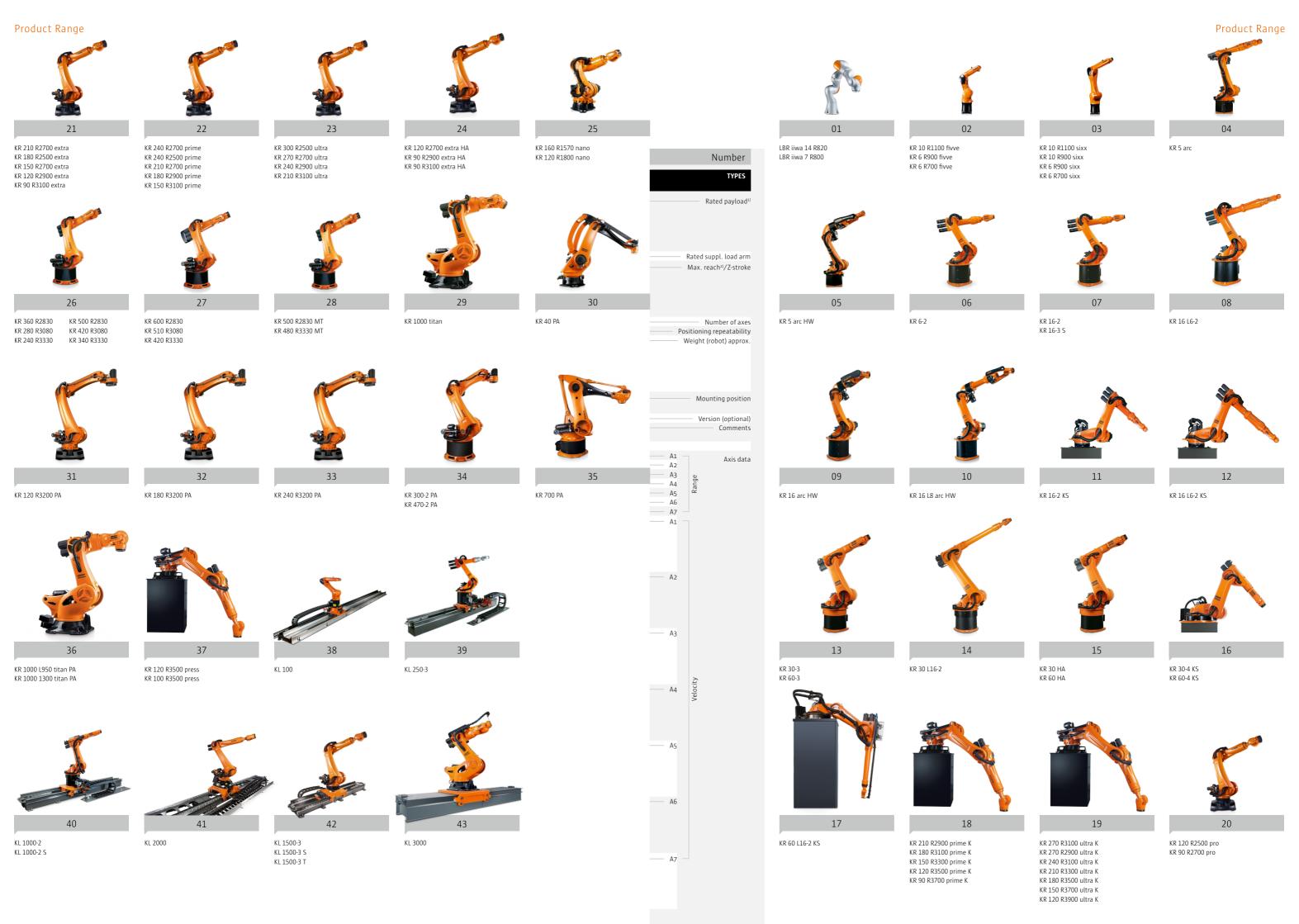
KUKA



KUKA Robotics Robot Range

Edition 1 | 2015



| S suitable for cleanrooms | SMALL ROBOTS | LOW PAYLOADS | MEDIUM PAYLOADS | HIGH PAYLOADS | HEAVY PAYLOADS | PALLETIZING ROBOTS | PRESS | LINEAR UNITS |
|---|--|--|--|--|--|---|-------------------------------|---|
| foundry version splash-proof covered Speed Torque Food-compatible lubricants hygienic machine 1) Valid for standard version 2) Refers to intersection of axes 4 and 5 3) Different axis data for ceiling variants | | | | | | | | |
| Number | 01 02 03 | 04 05 06 07 08 09 10 11 12 KR5 arc KR 5-2 arc KR 6-2 KR 16-2 KR 16-16 KR 16-2 KS KR 16- | 13 14 15 16 17 KR 30-3 KR 60-3 KR 30 16-2 KR 30 HA KR 60 HA KR 30-4 KS KR 60-4 KS KR 60 | 18 19 20 21 22 23 24 25 KR QUANTEC | 26 27 28 29 KR 360 KR 500 KR 500 KR 1000 | 30 31 32 33 34 35 36 KR 40 PA KR 120 KR 180 KR 240 KR 300-2 PA KR 470-2 PA KR 700 PA KR 1000 1950 KR 1000 1300 | 37 | 38 39 40 41 42 43 KI 1000-2 KI 1500-3 KI 3000 |
| Rated payload ¹⁾ | five sixx | HW HW HW 5 kg 5 kg 6 kg 16 kg 6 kg 16 kg 8 kg 16 kg 6 kg | 116-2 KS 30 kg 60 kg 16 kg 30 kg 60 kg 16 kg 16 kg 45 kg 45 kg 30 kg 30 kg 30 kg 30 kg | prime K ultra K pro extra prime ultra extra HA nano - 210 kg 270 kg 120 kg 210 kg 240 kg 300 kg 120 kg 160 kg - 180 kg 270 kg 90 kg 180 kg 240 kg 270 kg 90 kg 120 kg - 150 kg 240 kg 150 kg 210 kg 240 kg 90 kg 90 kg - 120 kg 210 kg 120 kg 210 kg 210 kg 90 kg | FORTEC FORTEC FORTEC FORTEC MT titan 360 kg 500 kg 600 kg 500 kg 1000 kg 280 kg 420 kg 510 kg 480 kg 750 kg 240 kg 340 kg 420 kg 420 kg | R3200 PA R3200 PA R3200 PA R3200 PA titan PA titan PA 40 kg 120 kg 180 kg 240 kg 300 kg 470 kg 700 kg 950 kg 1300 kg | 120 kg 100 kg | 100 kg 300 kg 1000 kg 3800 kg 6500 kg |
| Rated suppl. load arm ——————————————————————————————————— | 800 mm — 1101 mm — 1101 mm 820 mm — 901 mm — 901 mm 706 mm — 706 mm | 12 kg 12 kg 10 kg 10 kg 10 kg 10 kg 12 kg 12 kg 12 kg 10 kg 10 kg 10 kg 1412 mm 1423 mm 1611 mm 1611 mm 1611 mm 1911 mm 2016 mm 1801 mm 2101 mm | | 120 kg 50 kg | | | | |
| Number of axes Positioning repeatability Weight (robot) approx. | 7 5 6 <\pmodestyle="text-align: left;">5 6 <\pmodestyle="text-align: left;">6 <\pmodes | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 3901 mm | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 4 5 5 5 5 5 5 5 6 6 6 - <±0.05 mm - <±0.06 mm - <±0.06 mm - <±0.06 mm - <±0.08 mm - <±0.08 mm - <±0.15 mm - <±0.10 mm - <±0.10 mm 695 kg 1075 kg 1093 kg 1103 kg 2150 kg 2150 kg 2850 kg 4740 kg 4690 kg | | |
| Mounting position Version (optional) Comments | any Floor Wall, Floor, Ceiling ³⁾ Ceiling Gelling Gelling | - Floor, Ceiling - Floor, Ceiling - Wall, Floor, - Wall, Floor, - Floor, Ceiling - Wall, Floor, - Floor, Ceiling - Floor, Ceiling - Floor, Ceiling - Floor - F | Floor, Ceiling — Floor — F | 1221 kg ——Floor ——Floor – Floor, Ceiling ——Floor – Floor | - Floor, Ceiling - Floor, Ceiling - Floor - Floor - Floor - Floor | Floor | — Floor, Ceiling | - Floor, Ceiling - Floor, Ceiling - Floor, Ceiling - Floor - Floor - Floor, Ceiling - Floor - |
| Axis data A1 A2 A3 A4 A5 A6 A7 A1 A2 A3 A4 A5 A6 A7 | ±175° | #155° #155° #185° #185° #185° #185° #185° #185° #185° #185° #1185° #114° #114° #114° #114° #155° | ±350° ±350° ±350° ±350° ±350° ±350° 140°/s 128°/s 140°/s 128°/s 140°/s 138°/s 103°/s 128°/s 128°/s 128°/s 138°/s 138°/s 128°/s 128°/s 138°/s 138°/s | ±350° ±350° <td< td=""><td>±350° ±350° ±350° ±350° 100°/s 90°/s 80°/s 45°/s 58°/s 100°/s 90°/s 80°/s 45°/s 58°/s 100°/s 90°/s 80°/s 45°/s 58°/s</td><td> 183°/s 124°/s 105°/s 98°/s 84°/s 76°/s 58°/s 58°/s</td><td>±350° — 136°/s — 136°/s</td><td> 2.5 m/s 1.41 m/s 2.35 m/s 1.96m/s 2.35 m/s 1.45 m/s</td></td<> | ±350° ±350° ±350° ±350° 100°/s 90°/s 80°/s 45°/s 58°/s 100°/s 90°/s 80°/s 45°/s 58°/s 100°/s 90°/s 80°/s 45°/s 58°/s | 183°/s 124°/s 105°/s 98°/s 84°/s 76°/s 58°/s 58°/s | ±350° — 136°/s — 136°/s | 2.5 m/s 1.41 m/s 2.35 m/s 1.96m/s 2.35 m/s 1.45 m/s |
| A3 | 85°/s 98°/s | | 126°/s 102°/s 80°/s 126°/s 102°/s 137°/s 130°/s 888°/s 102°/s 102°/s 130°/s 130°/s 102°/s 130°/s 130°/s | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 90°/s 80°/s 75°/s 45°/s 50°/s 90°/s 80°/s 75°/s 45°/s 50°/s 90°/s 80°/s 75°/s | | 137°/s 137°/s | |
| ti. | 100%s | | 128°/s | | 90°/s 75°/s 70°/s 45°/s 50°/s 50°/s 90°/s 75°/s 70°/s 50°/s | 212/5 112/5 114/5 10//5 65/5 /3/5 0//5 50/5 50/5 | 114°/s | |
| A4 ———————————————————————————————————— | 75°/s ———————————————————————————————————— | | 260°/s 260°/s 260°/s 260°/s 260°/s 260°/s 260°/s 260°/s 260°/s | | 120°/s | 60°/s 60°/s | 136% | |
| A5 ———— | 130°/s 140°/s | 384°/s 390°/s 362°/s 330°/s 332°/s 355°/s 310°/s 320°/s 320°/s 332°/s 355°/s | | 129°/s | 110°/s 83°/s 70°/s 83°/s 60°/s 110°/s 83°/s 70°/s 83°/s 60°/s 110°/s 70°/s 83°/s 70°/s | | 129°/s 129°/s | |
| A6 ———————————————————————————————————— | 135°/s 180°/s 135°/s 180°/s | 721°/s 858°/s 659°/s 615°/s 789°/s 647°/s 610°/s 680°/s 616°/s 648°/s | 322°/s 322°/s 249°/s 322°/s | 258°/s | 160°/s — 130°/s — 110°/s — 130°/s — 72°/s — 160°/s — 130°/s — 110°/s — 130°/s — 72°/s — 160°/s — 130°/s — 110°/s — 130°/s — 10°/s — 10°/s — 10°/s — 110°/s — | 374°/s 242°/s 242°/s 242°/s 177°/s 168°/s 72°/s 72°/s 72°/s | 206°/s 206°/s | |
| | | | | | | | | |

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