

KUKA




KR QUANTEC.

Robot family for efficiency and multiple applications.



_High payloads



KR QUANTEC. The smart robot family for efficiency and a wide range of applications.

The future of your production. The KR QUANTEC robots have the largest payload/reach portfolio on the market in the high payload category. The all-rounder from KUKA is designed for applications in virtually all market segments – from the automotive industry to the foundry and medical sectors.

Optimal portfolio for maximum flexibility and low total cost of ownership (TCO). The KR QUANTEC series was developed on the basis of KUKA's experience in the dynamic world of automation. The result: a reliable, versatile and efficient high-quality solution for your production environment. Customers benefit from the uniquely wide range of applications of the KR QUANTEC robots, which stand out for their performance, cost-effectiveness and flexibility.

An intelligent modular system ensures perfectly coordinated and flexible robots, and low TCO – due, for example, to minimized maintenance requirements and a reduced number of spare parts. The capability of upgrading payload capacity in the field and the Motion Modes for ideal process quality within production make the KR QUANTEC a secure investment in the future of your production operations.



Best in class. With the KR QUANTEC series, KUKA presents a robot generation whose innovative features taken together set new standards – for both conventional and digitalized production worlds. The result goes way beyond technical details, also encompassing long-term aspects such as simplification of commissioning, maintenance requirements and process optimization of the system.

Sustainably low TCO. The KR QUANTEC will impress you not only with its outstanding production efficiency, but also with its economical start-up and maintenance concept. With energy efficiency, top values for the mean time between failures (MTBF) and a reduced number of components in the complete modular system, the series sets new market standards for TCO. Features contributing to a minimization of downtimes and maintenance requirements include the innovative cabling and energy supply concept. As a result, the KR QUANTEC series excels with a significant reduction in running costs. The energy supply concept is set apart by its durability and optimal availability.

Process-optimized motion sequences. The KR QUANTEC series were the world's first industrial robots to have digital plug-in Motion Modes. These are digitized motion modes that optimize the robot motion for specific application scenarios. "Path Mode", for example, enables high-precision continuous-path motion. "Dynamic Mode" allows a higher velocity in order to minimize cycle times.

Maximum flexibility. The KR QUANTEC series is distinguished by the optimal portfolio with its maximized performance and advanced design. Streamlined disruptive contours, extended permissible ambient conditions and an extremely small footprint ensure utmost flexibility in operation, as well as in cell and system planning. The perfected workspace in front of, over and behind the machine offers improved accessibility in a wide range of different applications.



KR QUANTEC	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
Controller	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6	6	6	6	6	6
Rated payload	300 kg	250 kg	240 kg	210 kg	180 kg	210 kg	150 kg
Reach	2,701 mm	2,701 mm	2,900 mm	3,100 mm	2,900 mm	2,701 mm	3,100 mm
Pose repeatability	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm
Weight	1,101 kg	1,101 kg	1,120 kg	1,134 kg	1,105 kg	1,077 kg	1,105 kg
Variants	F	F	F, HO	F	F	F	F, HO
Installation position	Floor, ceiling	Floor, ceiling	Floor, ceiling	Floor, ceiling	Floor	Floor	Floor

KR QUANTEC	KR 150 R2700-2	KR 120 R3100-2	KR 120 R2700-2	KR 270 R3100-2 K	KR 210 R3300-2 K	KR 180 R3500-2 K	KR 120 R3900-2 K
Controller	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4	KR C5, KR C4
Number of axes	6	6	6	6	6	6	6
Rated payload	150 kg	120 kg	120 kg	270 kg	210 kg	180 kg	120 kg
Reach	2,701 mm	3,100 mm	2,701 mm	3,105 mm	3,305 mm	3,505 mm	3,904 mm
Pose repeatability	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm	±0.05 mm
Weight	1,072 kg	1,105 kg	1,069 kg	1,260 kg	1,266 kg	1,256 kg	1,280 kg
Variants	F	F	F, HO	F	F	F	–
Installation position	Floor	Floor	Floor	Floor (shelf)	Floor (shelf)	Floor (shelf)	Floor (shelf)

KR QUANTEC nano	KR 160 R1570 nano	KR 120 R1800 nano
Controller	KR C4	KR C4
Number of axes	6	6
Rated payload	160 kg	120 kg
Reach	1,573 mm	1,803 mm
Pose repeatability	±0.06 mm	±0.06 mm
Weight	677 kg	684 kg
Variants	–	–
Installation position	Floor, ceiling	Floor, ceiling

F Foundry variant HO Food compatible lubricants
The technical data in the tables applies exclusively to standard versions.



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01.05.2024

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