»THE KUKA ROBOT GROUP: YOUR STRONG PARTNER

Quality made in Germany, creativity and the utmost commitment to customers and business partners: these form the basis on which KUKA develops the best possible technologies and thus the optimal automation concepts. The result is that you receive custom-tailored solutions and benefit from decisive process optimization.

Genuine passion for the fascination of robotics is reflected in our slogan “KUKA YOUR IDEAS”, which is also our promise to you: Whatever you want to do, and however unusual your idea may be, with us you can implement anything – irrespective of the specific branch of industry and irrespective of whether or not a similar application has existed before.

Whatever task you give us, KUKA has the required specialists. In close cooperation with experienced system partners with competence in their respective industries, we do everything in our power to implement your ideas. Let us work on them together.

»KUKA SERVICES: ALWAYS THERE FOR YOU

You can rely on us to stand by you in every phase of a project: from planning and commissioning to maintenance and conversion. 24 hours a day. 365 days a year. The high-density KUKA service network ensures that we are always in your vicinity and can start your production in record time.

KUKA YOUR IDEAS

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KR QUANTEC ultra K: The shelf-mounted robots for high payloads

KR QUANTEC ultra K

»KR QUANTEC ULTRA K: THE OPTIMAL ROBOTS FOR LARGE COMPONENTS OR TOOLS

Time to make tough tasks easy: the new KR QUANTEC ultra K product line is the result of systematic refinement of service-proven KUKA quality. The stiff structure and powerful drives based on state-of-the-art technology make it possible to reduce cycle times by up to 25 percent while maintaining utmost accuracy. Furthermore, reaches of 3.9 m and payloads up to 270 kg are no problem. This makes the product line – which is also available in the Foundry version – ideal for large components or tools. Further features are an intelligent choice of materials, cutting the unladen weight to approx. 1,285 kg, together with a simplified design of the robot base plate, a minimized applied load on the injection molding machine and wear-free machine beams.

All robots of the KUKA QUANTEC series have the same connection dimensions for tools and the same footprint as their predecessors in the 2000 Series. **The advantages: maximum flexibility and versatility.**

»EXTREMELY DYNAMIC – EXTREMELY STRONG

For large payloads: thanks to their compact design and extremely long reach, the KR QUANTEC ultra K robots are ideally suited to shelf-mounting, with a large work envelope extending far down and even further forward. With a maximum reach of 3.9 m, the KR QUANTEC ultra K can handle the full payload of 120 kg. **The advantages: extreme reach and high power.**

»EXTREMELY VERSATILE – EXTREMELY FUTURE-PROOF

Limitless variety: the intelligent payload and reach intervals of the KR QUANTEC prime K line mean that you always get the optimal robot for the required application. For you, this means: significantly reduced procurement costs. As a result, you benefit from increased planning and investment security. **The advantages: countless opportunities and profitable systems.**

EXTREMELY POWERFUL – EXTREMELY ACCURATE

Numerous improvements for optimal process results: the stiffer mechanical system, improved motion characteristics, short cycle times and increased path accuracy ensure that KR QUANTEC ultra K robots deliver consistent top performance. **The advantages: enormous power and precise results.**

»EXTREMELY STREAMLINED – EXTREMELY OPTIMIZED

Small but strong: with 25 percent less robot volume, the KR QUANTEC ultra K robots take up considerably less space. This results in significantly improved reachability – even in tight corners. Moreover, this is combined with denser installations and improved mounting options. **The advantages: minimum space requirements and maximum productivity.**

Extremely long-range.

Extremely powerful.

Extremely compact.

Extremely streamlined.

»TECHNICAL DETAILS

Type	KR 270 R2900 ultra K	KR 240 R3100 ultra K	KR 210 R3300 ultra K	KR 180 R3500 ultra K	KR 150 R3700 ultra K	KR 120 R3900 ultra K
Maximum reach	2,900 mm	3,100 mm	3,300 mm	3,500 mm	3,700 mm	3,900 mm
Rated payload	270 kg	240 kg	210 kg	180 kg	150 kg	120 kg
Supplementary load, arm	50 kg					
In-line wrist type	IW 290	IW 240	IW 210	IW 180	IW 150	IW 120
Maximum total load	320 kg	290 kg	260 kg	230 kg	200 kg	170 kg
Number of axes	6					
Mounting position	Floor					
Variant	Foundry					
Pose repeatability	±0.06 mm					
Path repeatability						
Controller	KR C4					
Weight (excluding controller), approx.	1,189 kg	1,189 kg	1,214 kg	1,201 kg	1,215 kg	1,221 kg
Temperature during operation	+10 °C to +55 °C					
Protection classification	IP 65 (Foundry-variant wrist IP 67)					
Robot footprint	830 mm x 830 mm					
Connection	7.3 kVA					
Noise level	< 75 dB					

Type		KR 270 R2900 ultra K	KR 240 R3100 ultra K	KR 210 R3300 ultra K	KR 180 R3500 ultra K	KR 150 R3700 ultra K	KR 120 R3900 ultra K
Axis data	Motion range	Speed with rated payload					
		270 kg	240 kg	210 kg	180 kg	150 kg	120 kg
Axis 1 (A1)	370°	105°/s	105°/s	105°/s	105°/s	105°/s	105°/s
Axis 2 (A2)	190°	101°/s	101°/s	101°/s	101°/s	101°/s	101°/s
Axis 3 (A3)	275°	107°/s	107°/s	107°/s	107°/s	107°/s	107°/s
Axis 4 (A4)	700°	122°/s	136°/s	136°/s	179°/s	179°/s	292°/s
Axis 5 (A5)	245°/±250°	113°/s	129°/s	129°/s	172°/s	172°/s	258°/s
Axis 6 (A6)	700°	175°/s	206°/s	206°/s	219°/s	219°/s	284°/s

The KUKA QUANTEC series comprises:

KR 120 R2500 pro
KR 90 R2700 pro
KR 210 R2700 extra
KR 180 R2500 extra
KR 150 R2700 extra
KR 120 R2900 extra
KR 90 R3100 extra
KR 240 R2500 prime
KR 210 R2700 prime
KR 180 R2900 prime
KR 150 R3100 prime
KR 300 R2500 ultra
KR 270 R2700 ultra
KR 240 R2900 ultra
KR 210 R3100 ultra
KR 210 R2900 prime K
KR 180 R3100 prime K
KR 150 R3300 prime K
KR 120 R3500 prime K
KR 90 R3700 prime K
KR 270 R2900 ultra K
KR 240 R3100 ultra K
KR 210 R3300 ultra K
KR 180 R3500 ultra K
KR 150 R3700 ultra K
KR 120 R3900 ultra K

Details provided about the properties and usability of the products are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.