

KUKA Robots for High Payloads



KUKA - YOUR STRONG PARTNER.

Quality made German robots built with the utmost commitment to our customer's needs. KUKA has been the basis for decades of exceptional technology helping companies to achieve process optimization. We were the pioneers in the world of robotics, and now are global leader in innovation. Our passion is finding future-oriented solutions to make even complex automation tasks simple. Whatever your application no matter the difficulty you can implement it with KUKA. Thanks to experienced KUKA system partners we are able to provide robotic solutions industrywide. We strive to turn your ideas into reality. Use our experience to drive your success.

Handling the next big thing for your business. KUKA robots for high payloads from 90 kg to 300 kg.

The KR QUANTEC series offers you a comprehensive range of models with 29 robot types and various mounting options. For the first time, a single robot family covers the entire high payload range from 90 to 300 kg, with reaches from 1,570 to 3,900 mm. It is more versatile and powerful than any previous robot family in this class.

KR QUANTEC robots are all-rounders for a wide variety of customized applications. They also have the most compact dimensions in their class – and the greatest power density. The KR QUANTEC series sets new standards in the technically and economically decisive points: precision, performance, energy efficiency and availability.











To find out more about KUKA robots for high payloads, scan this QR code with your smartphone.



Product overview

Robot	 KR QUANTEC pro 	KR 90 R2700 pro	KR 120 R2500 pro				
	KR QUANTEC extra	KR 90 R3100 extra	KR 120 R2900 extra	KR 150 R2700 extra	KR 180 R2500 extra	KR 210 R2700 extra —	
	KR QUANTEC prime	KR 150 R3100 prime	KR 180 R2900 prime	KR 210 R2700 prime	KR 240 R2700 prime	KR 240 R2500 prime —	
	KR QUANTEC ultra	KR 210 R3100 ultra	KR 240 R2900 ultra	KR 270 R2700 ultra	KR 300 R2500 ultra		
	KR QUANTEC nano	KR 120 R1800 nano	KR 160 R1570 nano				
Controller		KR C4					
Teach pendant ————		KUKA smartPAD —					







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1 KR QUANTEC: unbeatable power density, long reach and high payload

2 Reduced interference contour thanks to the hollow shaft in axis 1 for routing all cables

3 Extremely compact hydropneumatic counterbalancing system*

Features and advantages

COMPACT. The KR QUANTEC series robots are the most compact in their class with unrivaled power density, reach and payload.

STREAMLINED. The KR QUANTEC series robots have fewer interference contours and are equipped with a thin wrist for improved accessibility, especially for work in confined spaces.

VERSATILE. KR QUANTEC robots are multi-talented. No other robot family is suitable for so many different applications, from jobs like material handling and spot welding to machining small parts.

SMALL FOOTPRINT. To simplify planning, all models are installed on a compact base frame, with a nearly identical hole pattern for fastening to the mounting base.

LOW MAINTENANCE. These dependable KUKA robots boast the longest maintenance intervals on the market, at around 20,000 operating hours thus ensuring maximum productivity.

PRECISE. Thanks to their robust design KR QUANTEC robots operate with constant precision throughout the work envelope and offer excellent dynamic performance and unmatched repeatability.

KR QUANTEC pro

Work envelope ¹⁾	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Volume
KR 120 R2500 pro	— 2,826 mm	— 3,051 mm	— 2,496 mm	— 1,699 mm	—— 797 mm	— 1,532 mm	— 1,000 mm	— 1,150 mm	41 m ³
KR 90 R2700 pro –	— 3,026 mm	— 3,451 mm	— 2,696 mm	— 1,874 mm	—— 822 mm	— 1,732 mm	— 1,200 mm	— 1,150 mm	55 m ³



The world's largest range of models in its class





KR 90 R27	R 120 R2500 pro	К	
2,7	— 2,500 mm —		Max. reach ——
	—— 120 kg —		Rated payload —
50	– 50 kg/–/– —	arm/link arm/rot. co	Rated suppl. load,
	170 kg		Rated total load -
±0.	— ±0.06 mm —		Pose repeatability
	6		Number of axes –
	——— Floor —		Nounting position
			/ariant
—— 830 mm x 8	0 mm x 830 mm 🛛 —	83	Robot footprint –
830 mm x 8	0 mm x 830 mm 1,049 kg	controller), approx.	Robot footprint – Weight (excluding
830 mm x 8 830 mm x 8 1 Speed wit	0 mm x 830 mm 1,049 kg peed with rated	controller), approx.	Robot footprint — Weight (excluding Axis data/
830 mm x 8 1 Speed wit payloa	0 mm x 830 mm 1,049 kg peed with rated payload 120 kg	szantroller), approx.	Robot footprint – Neight (excluding Axis data/ Range of motion
930 mm x 8 Speed wit payloa	0 mm x 830 mm — 1,049 kg — beed with rated payload 120 kg 136°/s —	83 controller), approx. 	Avenue of the second se
—— 830 mm x 8 —— 1 Speed wit payloa	0 mm x 830 mm — 1,049 kg — beed with rated payload 120 kg 136°/s — 130°/s —	83 controller), approx. 	Ave tootprint – Weight (excluding Axis data/ Range of motion Axis 1 (A1) – Axis 2 (A2) –
930 mm x 8 Speed wit payloa	0 mm x 830 mm	83 controller), approx. 	Avis data/ Axis data/ Range of motion Axis 1 (A1) Axis 2 (A2) Axis 3 (A3)
930 mm x 8 Speed wit payloa	0 mm x 830 mm	83 controller), approx. 	Avis data/ Axis data/ Range of motion Axis 1 (A1) Axis 2 (A2) Axis 3 (A3) Axis 4 (A4)
830 mm x 8 1 Speed wit payloa	0 mm x 830 mm	83 controller), approx. 	Avis data/ Axis data/ Range of motion Axis 1 (A1) Axis 2 (A2) Axis 3 (A3) Axis 4 (A4) Axis 5 (A5)

Operating conditions

Ambient temperature	+10 °C to +55 °C
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Protection rating

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Protection rating, robot	IP 65
Protection rating, in-line wrist	IP 65

Controller

KR C4

Teach pendant

KUKA smartPAD

KR QUANTEC extra

Work envelope 1)	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Volume
KR 210 R2700 extra	- 3,026 mm	— 3,451 mm	— 2,696 mm	— 1,874 mm	—— 822 mm	— 1,732 mm	— 1,200 mm	— 1,150 mm	55 m ³
KR 180 R2500 extra	- 2,826 mm	— 3,051 mm	— 2,496 mm	— 1,699 mm	—— 797 mm	— 1,532 mm	— 1,000 mm	— 1,150 mm	41 m ³
KR 150 R2700 extra	- 3,026 mm	— 3,451 mm	— 2,696 mm	— 1,874 mm	—— 822 mm	— 1,732 mm	— 1,200 mm	— 1,150 mm	55 m ³
KR 120 R2900 extra	- 3,226 mm	— 3,634 mm	— 2,896 mm	— 2,016 mm	—— 880 mm	— 1,885 mm	— 1,200 mm	— 1,350 mm	——— 66 m ³
KR 90 R3100 extra	— 3,426 mm	— 4,034 mm	— 3,095 mm	— 2,187 mm	908 mm	— 2,085 mm	— 1,400 mm	— 1,350 mm	84 m ³







The world's largest range of models in its class



KR 210 R2700 extra	KR 180 R2500 extra	KR 150 R2700 extra	KR 120 R2900 extra	KR 90 R3100 extra
Max. reach 2,696 mm	2,496 mm	2,696 mm	2,896 mm	3,095 mm
Rated payload 210 kg	180 kg	150 kg	120 kg	90 kg
Rated suppl. load, arm/link arm/rot. col 50 kg/-/-	50 kg/-/-	50 kg/-/-	50 kg/-/-	50 kg/-/-
Rated total load 260 kg	230 kg	200 kg	170 kg	140 kg
Pose repeatability ±0.06 mm	±0.06 mm	±0.06 mm	±0.06 mm	±0.06 mm
Number of axes 6	6	6	6	6
Mounting position Floor	———— Floor, ceiling	— Floor, ceiling	— Floor, ceiling	— Floor, ceiling
Variant	[[3	[]
Robot footprint 830 mm x 830 mm	—— 830 mm x 830 mm	—— 830 mm x 830 mm	—— 830 mm x 830 mm	—— 830 mm x 830 mm
Weight (excluding controller), approx 1,068 kg	———— 1,059 kg	1,068 kg	1,084 kg	1,092 kg
Axis data/ Speed with rated	Speed with rated	Speed with rated	Speed with rated	Speed with rated
Range of motion payload 210 kg	payload 180 kg	payload 150 kg	payload 120 kg	payload 90 kg
Axis 1 (A1) +/-185° 123°/s	123°/s	123°/s	123°/s	123°/s
Axis 2 (A2)5°/-140° 115°/s	115°/s	115°/s	115°/s	115°/s
Axis 3 (A3) +155°/-120° 112°/s	120°/s	120°/s	120°/s	120°/s
Axis 4 (A4)	179°/s	179°/s	292°/s	292°/s
Axis 5 (A5) +/-125° 172°/s	172°/s	172°/s	258°/s	258°/s
Axis 6 (A6) +/-350° 219°/s	219°/s	219°/s	284°/s	284°/s

Operating conditions

Ambient temperature	 +10 °C to	+55 °C
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Protection rating

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Protection rating, robot	 IP 65
Protection rating, inline wrist	 IP 65
Protection rating, foundry in-line wrist	 IP 65

		Controller

— KR C4

Teach pendant

KR QUANTEC prime

Work envelope ¹⁾	Dimensions A	Dimensions	B Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Volume
KR 240 R2500 prime	- 2,826 mm	— 3,051 m	m — 2,496 mm	— 1,699 mm	— 797 mm	1,532 mm	1,000 mm	— 1,150 mm	— 41 m ³
KR 240 R2700 prime	— 3,026 mm	— 3,451 m	m — 2,696 mm	1,874 mm	—— 822 mm	— 1,732 mm	— 1,200 mm	— 1,150 mm	— 55 m ³
KR 210 R2700 prime	— 3,026 mm	— 3,451 m	m — 2,696 mm	1,874 mm	—— 822 mm	— 1,732 mm	— 1,200 mm	— 1,150 mm	— 55 m ³
KR 180 R2900 prime	- 3,226 mm	— 3,634 m	m — 2,896 mm	2,016 mm	—— 880 mm	— 1,885 mm	— 1,200 mm	— 1,350 mm	66 m ³
KR 150 R3100 prime	- 3,426 mm	— 4,034 m	m — 3.095 mm	2,187 mm	— 908 mm	— 2,085 mm	— 1,400 mm	— 1,350 mm	84 m ³





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.

¹⁾ Relative to intersection of axes 4/5.



The world's largest range of models in its class



2	KR 240 R2500 prime	KR 240 R2700 prime	KR 210 R2700 prime	KR 180 R2900 prime	KR 150 R3100 prime
Max. reach	2,496 mm —	2,696 mm —	2,696 mm —	2,896 mm —	3,095 mm
Rated payload	240 kg —	240 kg —	210 kg —	180 kg —	150 kg
Rated suppl. load, arm/link arm/r	ot.col 50 kg/-/- —	50 kg/-/	50 kg/-/- —	50 kg/-/- —	50 kg/-/-
Rated total load	290 kg —	290 kg —	260 kg —	230 kg —	200 kg
Pose repeatability	±0.06 mm —	±0.06 mm —	±0.06 mm —	±0.06 mm —	±0.06 mm
Number of axes	6	6	6	6 —	6
Mounting position	— Floor —	———— Floor —	— Floor, ceiling —	———— Floor —	
Variant	=	=	🛛 🕞 🚽		
Robot footprint	– 830 mm x 830 mm –	—— 830 mm x 830 mm —	—— 830 mm x 830 mm —	—— 830 mm x 830 mm —	—— 830 mm x 830 mm
Weight (excluding controller), app	rox. —— 1,102 kg —	1,111 kg —	1,111 kg —	1,106 kg —	1,114 kg
Axis data/	Speed with rated	Speed with rated	Speed with rated	Speed with rated	Speed with rated
Range of motion	payload 240 kg	payload 240 kg	payload 210 kg	payload 180 kg	payload 150 kg
Axis 1 (A1) +/-185° -	105°/s —	105°/s —	105°/s —	105°/s —	105°/s
Axis 2 (A2) -5°/-140° -	107°/s —	107°/s —	107°/s —	107°/s —	107°/s
Axis 3 (A3) +155°/-120° -	114°/s —	114°/s —	114°/s —	114°/s —	114°/s
Axis 4 (A4)	136°/s —	179°/s —	136°/s —	179°/s —	179°/s
Axis 5 (A5) - +125°/-122,5° -	129°/s —	172°/s —	129°/s —	172°/s —	172°/s
Axis 6 (A6)	206°/s —	219°/s —	206°/s —	219°/s —	219°/s

Operating conditions

Ambient temperature		+10 '	°C to	+55	°(
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Protection rating

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Protection rating, robot	IP 65
Protection rating, inline wrist	IP 65
Protection rating, foundry in-line wrist	IP 67

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~ ~	ontroller

— KR C4

KR QUANTEC ultra

Work envelope ¹⁾	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Volume
KR 300 R2500 ultra	— 2,826 mm	— 3,051 mm	— 2,496 mm	— 1,699 mm	—— 797 mm	— 1,532 mm	— 1,000 mm	— 1,150 mm	41 m ³
KR 270 R2700 ultra	— 3,026 mm	— 3,451 mm	— 2,696 mm	— 1,874 mm	—— 822 mm	— 1,732 mm	— 1,200 mm	— 1,150 mm	55 m ³
KR 240 R2900 ultra	— 3,226 mm	— 3,634 mm	— 2,896 mm	— 2,016 mm	—— 880 mm	— 1,885 mm	— 1,200 mm	— 1,350 mm	66 m ³
KR 210 R3100 ultra	— 3,426 mm	— 4,034 mm	— 3,095 mm	— 2,187 mm	—— 908 mm	— 2,085 mm	— 1,400 mm	— 1,350 mm	84 m ³



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¹⁾ Relative to intersection of axes 4/5.



The world's largest range of models in its class



2	KR 300 R2500 ultra	KR 270 R2700 ultra	KR 240 R2900 ultra	KR 210 R3100 ultra
Max. reach	2,496 mm —	2,696 mm —	2,896 mm —	3,095 mm
Rated payload	300 kg —	270 kg —	240 kg —	210 kg
Rated suppl. load, arm/link arm	/rot.col 50 kg/-/- —	50 kg/-/- —	50 kg/-/- —	50 kg/-/-
Rated total load	350 kg —	320 kg —	290 kg —	260 kg
Pose repeatability	±0.06 mm —	±0.06 mm —	±0.06 mm —	±0.06 mm
Number of axes	6	6	6	6
Mounting position	— Floor, ceiling —	— Floor, ceiling —	— Floor, ceiling —	——— Floor, ceiling
Variant	(()	🔒	
Robot footprint	— 830 mm x 830 mm —	— 830 mm x 830 mm —	— 830 mm x 830 mm —	— 830 mm x 830 mm
Weight (excluding controller), a	pprox. —— 1,120 kg —	1,129 kg —	1,145 kg —	1,154 kg
Axis data/	Speed with rated	Speed with rated	Speed with rated	Speed with rated
Range of motion	payload 300 kg	payload 270 kg	payload 240 kg	payload 210 kg
Axis 1 (A1) +/-185°	105°/s	105°/s —	105°/s —	105°/s
Axis 2 (A2) -5°/-140°	101°/s	101°/s —	101°/s —	101°/s
Axis 3 (A3) +155°/-120°	107°/s	107°/s —	107°/s —	107°/s
Axis 4 (A4) +/-350°	122°/s	122°/s —	136°/s —	136°/s
Axis 5 (A5) - +125°/-122,5°	113°/s —	113°/s —	129°/s —	129°/s
Axis 6 (A6) +/-350°	175°/s —	175°/s —	206°/s —	206°/s

Operating conditions

Ambient temperature		+10	°C to	+55	, °(
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Protection rating

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Protection rating, robot	IP 65
Protection rating, inline wrist	IP 65
Protection rating, foundry in-line wrist	IP 67

			Controller

— KR C4

KR QUANTEC nano

Work envelope ¹⁾	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Volume
KR 120 R1800 nano	– 2,053 mm	— 2,881 mm	— 1,803 mm	—— 585 mm	— 1,164 mm	—— 780 mm	—— 770 mm	20.6 m ³
KR 160 R1570 nano	— 1,823 mm	— 2,468 mm	— 1,573 mm	—— 600 mm	—— 963 mm	—— 710 mm	—— 610 mm	13.5 m ³





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¹⁾ Relative to intersection of axes 4/5.



KR 120 R1800 nano

KR 160 R1570 nano

Max. reach -– 1,803 mm – – 1,573 mm Rated payload -— 120 kg – — 160 kg Rated suppl. load, arm/link arm/rot. col. – — 50 kg/—/— -— 50 kg/-/-— 170 kg — 210 kg Rated total load -Pose repeatability -— ±0.06 mm -— ±0.06 mm _____ 6 ------ 6 Number of axes — —— Floor, ceiling Mounting position – – Floor, ceiling -Variant — _ _ _____ Robot footprint — — 901 mm x 610 mm -— 901 mm x 610 mm Weight (excluding controller), approx. — ——— 684 kg — ———— 677 kg

Axis data	Range of motion	Speed with rated payload 120 kg	Range of motion	Speed with rated payload 160 kg
Axis 1 (A1)		123°/s		123°/s
Axis 2 (A2)		114°/s		114°/
Axis 3 (A3)	+150°/-130°	86°/s		86°/9
Axis 4 (A4)		179°/s		179°/s
Axis 5 (A5)	+/-125°	172°/s		172°/
Axis 6 (A6) ———		220°/s		220°/

Operating conditions

Ambient temperature	+10 °C his +55 °C
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Protection rating

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Protection rating, robot	IP 65
Protection rating, inline wrist	IP 65

Controller	
KR C4	
Teach pendant	

_____ KUKA smartPAD



Product overview

Robot	KR QUANTEC prime K	KR 90 R3700 prime K	KR 120 R3500 prime K	KR 150 R3300 prime K	
	KR QUANTEC prime K	KR 180 R3100 prime K	KR 210 R2900 prime K		
	KR QUANTEC ultra K	KR 120 R3900 ultra K	KR 150 R3700 ultra K	KR 180 R3500 ultra K	
	KR QUANTEC ultra K	KR 210 R3300 ultra K	KR 240 R3100 ultra K	KR 270 R2900 ultra K	
Controller —		KR C4			
Teach pendant		KUKA smartPAD ——			







1 Robot knee positioned lower and further forward for greater downward reach

2 Extremely compact: the robot wrist of the new KR QUANTEC series

Features and advantages

VERSATILE. The intelligent payload and reach intervals allow simple and reliable planning. KUKA also offers shelf-mounted robots covering a payload range from 16 kg to 270 kg.

LIGHT. KUKA shelf-mounted robots stand out for their low weight. They can be installed directly on machines with minimum effort, thereby saving space.

DEEP REACH. KUKA shelf-mounted robots are designed for an especially large downward reach. Thanks to their low height, they require little space above the robot base.

FAST. Thanks to their low weight KUKA shelf-mounted robots achieve high dynamic performance and very short cycle times. This enables higher productivity and cost-effectiveness with rapid payback.

RELIABLE PLANNING. Each KUKA robot family shares an identical mounting base hole pattern. This allows different shelf-mounted robots to be used on machines of different sizes without any additional planning measures.

KR QUANTEC prime K

Work envelope ¹⁾	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Volume
KR 210 R2900 prime K	— 2,741 mm	— 4,232 mm	— 2,901 mm	— 1,704 mm	— 1,197 mm	—— 826 mm	— 1,000 mm	— 1,150 mm -	— 77.90 m ³
KR 180 R3100 prime K	— 2,941 mm	— 4,632 mm	— 3,101 mm	— 1,879 mm	— 1,222 mm	— 1,027 mm	— 1,200 mm	— 1,150 mm -	— 97.80 m ³
KR 150 R3300 prime K	— 3,141 mm	— 5,020 mm	— 3,301 mm	— 2,021 mm	— 1,280 mm	— 1,126 mm	— 1,200 mm	— 1,350 mm -	— 120.62 m ³
KR 120 R3500 prime K	— 3,341 mm	— 5,420 mm	— 3,501 mm	— 2,193 mm	— 1,308 mm	— 1,326 mm	— 1,400 mm	— 1,350 mm -	— 146.73 m ³
KR 90 R3700 prime K -	— 3 5/11 mm	— 5 820 mm	— 3 701 mm	— 2 301 mm	— 1 400 mm	— 1 526 mm	— 1 600 mm	— 1 350 mm —	- 175.26 m ³







e K KR 180 R3100 prime K	KR 150 R3300 prime K	KR 120 R3500 prime K	KR 90 R3700 prime K
nm 3,101 mm	3,301 mm	3,501 mm -	3,701 mm
kg 180 kg	150 kg	120 kg -	90 kg
-/ 50 kg/-/-	50 kg/-/-	50 kg/-/	50 kg/-/-
kg 230 kg	200 kg	170 kg -	140 kg
nm ±0.06 mm	±0.06 mm	±0.06 mm -	±0.06 mm
6 6	6	6 -	6
oor — Floor	Floor		
	=	= -	=
nm —— 830 mm x 830 mm	—— 830 mm x 830 mm	830 mm x 830 mm -	—— 830 mm x 830 mm
kg 1,168 kg	1,184 kg	1,192 kg -	1,204 kg
ted Speed with rated	Speed with rated	Speed with rated	Speed with rated
kg payload 180 kg	payload 150 kg	payload 120 kg	payload 90 kg
°/s 105°/s	105°/s	105°/s -	105°/s
°/s 107°/s	107°/s	107°/s -	107°/s
°/s 114°/s	114°/s	114°/s -	114°/s
°/s 179°/s	179°/s	292°/s -	292°/s
°/s 172°/s	172°/s	258°/s -	258°/s
°/s 219°/s	219°/s	284°/s -	284°/s
	e K KR 180 R3100 prime K nm 3,101 mm 0 kg 180 kg -/- 50 kg/-/- 0 kg 230 kg mm ±0.06 mm 6 6 0 oor Floor - 830 mm x 830 mm 0 kg 1,168 kg ted Speed with rated payload 180 kg °/s 105°/s °/s 107°/s °/s 114°/s °/s 179°/s °/s 172°/s	KR 180 R3100 prime K KR 150 R3300 prime K nm 3,101 mm 3,301 mm 0 kg 180 kg 150 kg -/- 50 kg/-/- 50 kg/-/- 0 kg 230 kg 200 kg mm ±0.06 mm ±0.06 mm 6 6 6 oor Floor Floor mm 830 mm x 830 mm 830 mm x 830 mm 0 kg 1,168 kg 1,184 kg ted Speed with rated payload 180 kg Speed with rated payload 150 kg °/s 105°/s 107°/s 107°/s °/s 114°/s 114°/s 114°/s °/s 172°/s 172°/s 172°/s	KR 180 R3100 prime K KR 150 R3300 prime K KR 120 R3500 prime K nm 3,101 mm 3,301 mm 3,501 mm 0 kg 180 kg 150 kg 120 kg -/- 50 kg/-/- 50 kg/-/- 50 kg/-/- 0 kg 230 kg 200 kg 170 kg mm ±0.06 mm ±0.06 mm ±0.06 mm 6 6 6 6 oor Floor Floor Floor mm 830 mm x 830 mm 830 mm x 830 mm 830 mm x 830 mm 0 kg 1,168 kg 1,184 kg 1,192 kg */s 105°/s 105°/s 105°/s */s 107°/s 107°/s 107°/s */s 107°/s 107°/s 292°/s */s 114°/s 114°/s 114°/s */s 172°/s 2292°/s 288°/s

Operating conditions

Ambiant tomporature	110 °C to 155 °C
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Protection rating

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Protection rating, robot	 IP 65
Protection rating, in-line wrist	 IP 65

Controller

— KR C4

Teach pendant

KR QUANTEC ultra K

Work envelope ¹⁾	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Volume
KR 270 R2900 ultra K	— 2,741 mm	— 4,232 mm	— 2,901 mm	— 1,704 mm	— 1,197 mm	—— 826 mm	— 1,000 mm	— 1,150 mm	—— 77.90 m ³
KR 240 R3100 ultra K	— 2,941 mm	— 4,632 mm	— 3,101 mm	— 1,879 mm	— 1,222 mm	— 1,026 mm	— 1,200 mm	— 1,150 mm	97.80 m ³
KR 210 R3300 ultra K	— 3,141 mm	— 5,020 mm	— 3,301 mm	— 2,021 mm	— 1,280 mm	— 1,126 mm	— 1,200 mm	— 1,350 mm	— 120.62 m ³
KR 180 R3500 ultra K	— 3,341 mm	— 5,420 mm	— 3,501 mm	— 2,192 mm	— 1,380 mm	— 1,326 mm	— 1,400 mm	— 1,350 mm	— 146.73 m ³
KR 150 R3700 ultra K	— 3,541 mm	— 5,820 mm	— 3,701 mm	— 2,301 mm	— 1,400 mm	— 1,526 mm	— 1,600 mm	— 1,350 mm	175.26 m ³
KR 120 R3900 ultra K	— 3,740 mm	— 6,220 mm	— 3,901 mm	— 2,368 mm	— 1,533 mm	— 1,725 mm	— 1,800 mm	— 1,350 mm	— 206.72 m ³







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

Max. reach	2,901 mm	3,301 mm	3,301 mm —	3,501 mm —	3,701 mm -	3,901 mm
Rated payload	270 kg	240 kg	210 kg —	180 kg —	150 kg -	120 kg
Rated suppl. load, arm/link arm/r	ot. col. 50 kg/-/	—— 50 kg/—/— —	—— 50 kg/-/- —	——— 50 kg/—/— —	50 kg/-/	50 kg/—/—
Rated total load	320 kg	290 kg	260 kg —	230 kg —	200 kg -	170 kg
Pose repeatability	±0.06 mm	±0.06 mm	±0.06 mm —	±0.06 mm —	±0.06 mm -	±0.06 mm
Number of axes	6	6	6	6	6 -	6
Mounting position	Floor	— Floor —	— Floor —	— Floor —		
Variant	()	🔒	[]	[]	[] -	6
Robot footprint	830 mm x 830 mm — 8	330 mm x 830 mm —	830 mm x 830 mm —	830 mm x 830 mm —	830 mm x 830 mm -	830 mm x 830 mm
Weight (excluding controller), app	rox. — 1,189 kg —	——— 1,198 kg ——	——— 1,214 kg —	——— 1,201 kg —	1,215 kg -	1,221 kg

Axis data/ Range of motion		Speed with rated payload 270 kg	Speed with rated payload 240 kg	Speed with rated payload 210 kg	Speed with rated payload 180 kg	Speed with rated payload 150 kg	Speed with rated payload 120 kgt
Axis 1 (A1)	+/-185° -	105°/s —	105°/s —	105°/s —	105°/s —	105°/s -	105°/s
Axis 2 (A2)		101°/s —	101°/s —	101°/s —	101°/s -	101°/s -	101°/s
Axis 3 (A3)	— +155°/-120° ·	107°/s —	107°/s —	107°/s —	107°/s –	107°/s -	107°/s
Axis 4 (A4)		122°/s —	136°/s —	136°/s —	179°/s —	179°/s -	292°/s
Axis 5 (A5)	+125°/-122,5°	113°/s —	129°/s —	129°/s —	172°/s –	172°/s -	258°/s
Axis 6 (A6)		175°/s —	206°/s —	206°/s —	219°/s —	219°/s -	284°/s

Operating conditions

Amhient temperature	 +10 °C to +55 °C
Amplent temperature	+10 C LO +55 C

Protection rating

Ø

Protection rating, robot	IP 65
Protection rating, inline wrist	IP 65
Protection rating, foundry in-line wrist	IP 65 / IP 67

tection rating, foundry in-line wrist	 IP 65 / IP 67

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- KR C4

Teach pendant

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.

Variant for environments with a high degree of fouling and high temperatures

The high-accuracy robots.

Product overview

Robot	KR 120 R2700 extra HA
	KR 90 R2900 extra HA, KR 90 R3100 extra HA
Controller	KR C4
Teach pendant	KUKA smartPAD ————————————————————————————————————





robots

Features and advantages

PATH ACCURACY. KUKA robots set standards with their unparalleled precision – in robot-based welding, for example – while attaining utmost repeatability and unbeatable cycle times.

PATH REPEATABILITY. Highly accurate robot arm with long reach enables linear path repeatability. Optimal for laser applications and other tasks in which utmost precision is required.

POSE REPEATABILITY. Special gear units ensure ideal process results and pose repeatability of ±0.05 mm.

LOW MAINTENANCE. KUKA robots offer the longest maintenance intervals on the market, at around 20,000 operating hours, thus ensuring virtually uninterrupted productivity.

ROBUST. Systematically optimized for durability, the design provides for consistently reliable operation even under extreme conditions.

99.9% AVAILABILITY. KUKA robots for medium payloads allow reliable long-term planning and cost estimation.

KR QUANTEC extra HA

Work envelope ¹⁾	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Volumen
KR 120 R2700 extra H	A - 3,026 mm	— 3,451 mm	— 2,696 mm	— 1,874 mm	— 822 mm	— 1,732 mm	— 1,200 mm	— 1,150 mm	55 m ³
KR 90 R2900 extra HA	— 3,226 mm	— 3,634 mm	— 2,896 mm	— 2,016 mm	— 880 mm	— 1,885 mm	— 1,200 mm	— 1,350 mm	66 m ³
KR 90 R3100 extra HA	— 3,426 mm	— 4.034 mm	— 3,095 mm	— 2,187 mm	— 908 mm	— 2,085 mm	— 1,400 mm	— 1,350 mm	84 m ³



Features and advantages

HIGHLY ACCURATE. Special gear units with utmost precision and very high correction velocities ensure ideal process results and very high pose and path repeatability on linear paths.

EFFICIENT. High absolute accuracy and minimal disruptive contours allow optimal offline programming.

SPACE-SAVING. Compact dimensions reduce the footprint and allow space-saving cell layouts.

OPTIMIZED FOR PROCESS FORCES. High stiffness resulting from FEM-optimized structure compensates for process forces generated.



2	KR 120 R2700 extra HA	KR 90 R2900 extra HA	KR 90 R3100 extra HA
Max. reach	2,696 mm -	2,896 mm -	3,095 mm
Rated payload	120 kg –	90 kg -	90 kg
Rated suppl. load, arm/link ar	rm/rot. col. – 50 kg/–/– –	50 kg/-/	50 kg/-/-
Rated total load	170 kg –	140 kg -	140 kg
Pose repeatability ———	±0.05 mm -	±0.05 mm -	±0.05 mm
Number of axes	6	6 -	6
Mounting position			
Variant			
Robot footprint	—— 830 mm x 830 mm –	—— 830 mm x 830 mm –	—— 830 mm x 830 mm
Weight (excluding controller),	approx. — 1,104 kg –	1,121 kg –	1,129 kg
Axis data/	Speed with rated	Speed with rated	Speed with rated
Range of motion	payload 120 kg	payload 90 kg	payload 90 kg
Achse 1 (A1) +/-18	5° 105°/s -	105°/s -	105°/s
Achse 2 (A2)	5° 101°/s -	101°/s -	101°/s
Achse 3 (A3)	5° 107°/s -	107°/s -	107°/s
	۲° ۲۹۲°/s _	292°/s -	292°/s
Achse 4 (A4) +/-350	2 2 2 7 5	3,7	
Achse 4 (A4) +/-350 Achse 5 (A5) +/-125	5° — 258°/s –	258°/s -	258°/s

Operating conditions

Ambient temperature	 +10 °C to +55 °(2

Protection rating

Protection rating, robot ——	 IP 65
Protection rating, inline wrist	 IP 65

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— KR C4

Teach pendant

KUKA smartPAD

KR QUANTEC press

Work envelope 1)	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Dimensions E	Dimensions F	Dimensions G	Dimensions H	Volume
KR 120 R3500 press	- 3,341 mm	— 5,420 mm	— 3,501 mm	— 2,192 mm	— 1,308 mm	— 1,326 mm	— 1,400 mm	— 1,350 mm -	— 146.73 m ³
KR 100 R3500 press	- 3,341 mm	— 5,420 mm	— 3,501 mm	— 2,192 mm	— 1,308 mm	— 1,326 mm	— 1,400 mm	1,350 mm -	— 146.73 m ³





Features and advantages

SPECIALIZED. Due to their enormous reach and broad payload spectrum KR QUANTEC press robots are ideally suited to the loading and unloading of even the largest of components in press shops.

ROBUST. The robust design with reinforced axes and highly resistant gear units ensure reliable performance and availability even under constant high stress.

FLEXIBLE. A wide range of applications can be implemented, from press linking across narrow or wide press distances to the transfer of large and medium-sized blanks.

FAST. Thanks to a specially adapted drive train and machine data, the KR QUANTEC press robots shorten processing times and achieve extremely high throughput.

PRECISE. Their precise control and mechanical design give KR QUANTEC press robots a repeatability of ± 0.06 mm, with increased output and higher quality.



	KR 120 R3500 press	KR 100 R3500 press
Max. reach —	3,501 mm –	3,501 mm
Rated payload ———	120 kg –	100 kg
Rated suppl. load, arm/lin	k arm/rot. col. – 50 kg/–/– –	50 kg/-/-
Rated total load	170 kg –	150 kg
Pose repeatability ——	±0.06 mm -	±0.06 mm
Number of axes —	6	
Mounting position ——— Variant ———	———— Floor, ceiling — ———————————————————————————————————	– Floor, ceiling
Robot footprint	830 mm x 830 mm _	
Weight (excluding controll	er), approx. — 1,240 kg —	1,240 kg
Axis data/	Speed with rated	Speed with rated
Range of motion	payload 120 kg	payload 100 kg
Asse 1 (A1) +/	-185° — 136°/s -	136°/
Asse 2 (A2) +70°/	-120° 137°/s -	137°/s
Asse 3 (A3)	-120° 114°/s -	114°/9
Asse 4 (A4) +/	-350° — 136°/s –	136°/9
Asse 5 (A5) +/-1	22,5° — 129°/s -	129°/
Asse 6 (A6) +/	-350° — 206°/s –	206°/9
Operating conditions		
Ambient temperature —		+10 °C to +55 °C
Protection rating		
Standard variant		IP 6
		Controlle
		KR C2
4		
		Teach pendant

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KUKA smartPAD



Product overview

Linear unit	KL 1500-3, KL 1500-3 S, KL 1500-3 T
Designed for robot categories	high payloads, heavy payloads
Controller	KR C4
Teach pendant ————————————————————————————————————	KUKA smartPAD ————————————————————————————————————

Dimensions of the product



Features and advantages

FLEXIBLE. Long travel of up to 30 m extends the work envelope by several times the reach of the robot. Ideal for linking production lines.

HIGH PERFORMANCE. Additional version with high torque (e.g. for milling applications) and a high-speed variant for tasks requiring extreme speed and short cycle times.

VERSATILE. Floor-mounted and ceiling-mounted variants are available, as is a protective cover for keeping out dirt during tasks in harsh environments.

POSITIONALLY ACCURATE. Up to four robots can be operated on a linear axis. Multiple robot positions on the linear axis allow optimal adaptation to existing requirements and workspaces.



2	KL 1500-3 T	KL 1500-3 S	KL 1500-3
Number of carriages	4	4	4
Maximum rated travel	30,000 mm	30,000 mm	30,000 mm
Maximum velocity ————	1.89 m/s	2.35 m/s	1.45 m/s
Pose repeatability			< ±0.02 mm
Number of axes	1	1	1
Variant	C, 🛛	C _, C	C), CV
Mounting position	——— Floor, ceiling ———	—— Floor, ceiling ——	—— Floor, ceiling
Mass of carriage ————	440 kg	440 kg	440 kg
Mass of rated payload ————	3,800 kg	3,800 kg	2,000 kg
Mass of beam per meter ———	345 kg	345 kg	345 kg
Minimum rated travel ————	1,000 mm	1,000 mm	1,000 mm
Gradation of rated travel ———	500 mm	500 mm	500 mm
Transmission of force	Rack	Rack	Rack

Operating conditions

	KUKA smartPAD
<u> </u>	Teach pendant
	KR C4
E	Controller
Ambient temperature	+10 °C to +55 °C



Product overview

Linear unit	KL 2000
Designed for robot categories	high payloads, heavy payloads
Controller	KR C4
Teach pendant	KUKA smartPAD

Dimensions of the product





Features and advantages

FLEXIBLE. Long travel of up to 30 m extends the work envelope by several times the reach of the robot. Ideal for linking production lines.

POWERFUL. Higher performance and energy efficiency due to the reduced mass of the beam and the carriage.

MODULAR. Thanks to the modular design of the linear unit, the length can be altered as desired using standard components.

POSITIONALLY ACCURATE. Up to four robots can be operated on a linear axis. Multiple robot positions on the linear axis allow optimal adaptation to existing requirements and workspaces.



2

KL 2000

Number of carriages ———————————	4
Maximum rated travel —————————	29,900 mm
Maximum velocity	1.96 m/s
Pose repeatability	<±0.02 mm
Number of axes	1
Variant	
Mounting position	
Mass of carriage	350 kg
Mass of rated payload	2,000 kg
Mass of beam per meter	240 kg
Minimum rated travel	400 mm
Gradation of rated travel —————	500 mm
Transmission of force	Rack

Operating conditions

Ambient temperature	+10 °C to +55 °C
E	Controller
	KR C4
đ	Teach pendant
	KUKA smartPAD

32 \ KUKA Robots for High Payloads \ KUKA System Components

An unbeatable team.

Product overview



NO MATTER WHICH ROBOT YOU OPT FOR KUKA OFFERS YOU THE MATCHING SYSTEM COMPONENTS. KUKA robots embody all the essential characteristics of future-oriented robot technology. KUKA robots are more reliable and more flexible than ever with the ability to master heavy loads and long reaches with extreme precision. Thanks to an outstanding availability of nearly 100 %, KUKA robots make the automation processes easier than ever before.

KR C4 – THE CONTROL SYSTEM OF THE FUTURE. More

powerful and safer, with more flexibility. Its open architecture can manage all kinematic systems and even complete production lines. The KR C4 provides a firm foundation for the automation of tomorrow. This significantly reduces your costs in automation for integration and maintenance. At the same time the long-term efficiency and flexibility of the systems are increased. The KR C4 gives you the necessary openness to meet the requirements of tomorrow's markets.

99.99%

AVAILABILITY. ROBUST AND LOW ON MAINTENANCE, THIS UNBEATABLE TEAM WORKS NON-STOP ON YOUR SUCCESS.

[+] SIMPLER AS A TEAM

[+] MORE VERSATILE AS A TEAM



THE SIMPLEST WAY OF OPERATING ROBOTS. Touch screen. Graphics support. Flexible interaction. The large touch screen of the KUKA smartPAD allows operation of both robots and entire systems, all visually represented on the screen. The display adapts to show the user only those operator control elements that are needed at any given moment. Attention is always focused on what is important, allowing users to work more intuitively, quickly, easily and efficiently.

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N OPTIMALLY PREPARED, EFFICIENT SOFTWARE SOLUTION

FOR EVERY TASK. KUKA function and technology packages breathe life into the KUKA robots. They enable them to carry out particular industry-specific functions within an automation solution. Gluing, moving, machining, measuring, handling or working together with humans or other synchronized robots: KUKA function and technology packages make automation easy.

33



The control system of the future

MORE POWERFUL, SAFER, MORE FLEXIBLE, AND MORE INTELLIGENT. The KR C4 has been created for the automation of today and tomorrow. Thanks to its open architecture it is a master of simple integration. It can communicate in a wide range of programming languages and is ideally suited to the control of KUKA manipulators. It can carry out a vast range of tasks, be used for robots of all payload categories, and control entire production lines. With the KR C4 all integrated controllers, SafetyControl, RobotControl, MotionControl, and LogicControl have a joint database and infrastructure for maximum performance, scalability, and flexibility.









2

1 Increased system availability through systematic reduction of hardware, cables and connectors

2 The passive heat exchange system, with separate air circulation in the inner and outer zones of the controller, allows low-maintenance operation even in dusty environments. Entirely without filter mats

3 Dimensions of the KR C4

KR C4 controller

Features and advantages

1

ALL-ROUNDER. Safety, Robot, Logic and MotionControl – the KR C4 combines everything in a single controller allowing effortless control of the entire system.

3

UNIVERSAL APPLICATION. The open architecture of the KR C4 can control not only KUKA robots but also external axes – for maximum flexibility, scalability, performance and openness, in minimum space.

FOR ALL PAYLOADS. The KR C4 is the uniform controller for all KUKA robots, ranging from the low to high payload range categories.

COMMUNICATION TALENT. In addition to its own robot language KRL, the KR C4 understands the language of the CNC machining world (G-code) and the language of PLCs, enabling it to communicate directly with your Siemens[®] or Rockwell[®] controller.

ROBUSTNESS. The consistent choice of durable components and well-designed cabinet ensure long-term, reliable operation, even in extreme conditions.

±0.002 SEC I/O RESPONSE TIME. Secure data exchange measured in milliseconds forms the basis for new safety concepts in human-machine cooperation.

ENERGY-EFFICIENT. The new energy management system allows the energy consumption of the controller to be reduced by up to 95 % in standby mode. The improved cooling concept, combined with a temperature-controlled fan, further reduces the power dissipation of the controller, while making operation considerably quieter.

Туре	KR C4
Processor	— Multi-core technology
Hard drive ————	———— HDD, SSD optional
Interface ————	USB, EtherNet
Field buses — PROFINET, EtherNet/IP,	PROFIBUS, DeviceNet, EtherCAT, Interbus
Max. number of axes	8
Protection rating	IP 54
Dimensions (D x W x H)	596 mm x 792 mm x 960 mm
Weight	150 kg

Power supply connection

Rated supply volta	16	- 3 x 400-480 V AC
Permissible tolerar	ce of rated voltage	-10 to +10 %
Mains frequency		49 to 61 Hz
Mains-side fusing	min. 3 x 25 A slow-blowing, max. 3 x	32 A slow-blowing

Operating conditions

Ambient temperature	+5 °C to +45 °C
Ambient temperature with cooling unit	 optionally up to +50 °C

KUKA smartPAD

KUKA smartPAD – Making robot operation really easy

TOUCH SCREEN. GRAPHICS SUPPORT. FLEXIBLE INTERACTION. The more diverse the robots' abilities become, the greater the importance of intuitive user interfaces for their operation. The new KUKA smartPAD brilliantly demonstrates on a large antireflection touch screen just how simple it can be. Intelligent, interactive dialogs provide the user with those operator control elements that are currently required. This makes work easier, faster, more efficient, and simply smarter all-round.







1 Simple, intuitive operator control via touch screen

2

2 Ergonomic 6D mouse

Features and advantages

UNIVERSAL APPLICATION. Operate all KUKA robots and KR C4 controllers with the KUKA smartPAD.

ANTIREFLECTION TOUCH DISPLAY. Simple operation via the well-lit 8.4" screen with an intuitive user interface.

ERGONOMICALLY OPTIMIZED. Designed to be user-friendly. Built for mobility and its lightweight, just 1,100 grams.

HOT-PLUGGABLE. If the KUKA smartPAD is not being used it can be simply unplugged during ongoing operation and used with any other KR C4 controller.

INTEGRATED USB CONNECTION. Direct saving and loading of configurations now possible via USB port on the KUKA smartPAD.

HAPTIC JOG KEYS. The combination of haptic jog keys and a haptically controlled mouse enables intuitive maneuvering with constant visual contact with the robot.

Teach pendant: KUKA smartPAD

KUKA function and technology packages

Function and technology packages for the KR C4

KUKA function and technology packages help you to solve specific automation tasks efficiently with minimum programming. KUKA's portfolio of software solutions cover nearly all common areas of application. Using these packages our KUKA system partners implement tailored solutions to meet every customer requirement.

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KUKA function and technology packages

KUKA.WorkVisual	Engineering environment for all KUKA robots for system configuration, programming, data backup, diagnosis, and more.
KUKA.Load	Supports the evaluation of the load on a KUKA robot or the selection of a suitable robot for a given load.
KUKA.UserTech	Fast programming of motion and program sequences using freely definable buttons, input masks and parameter lists
KUKA.ExpertTech ———	Faster, simpler programming even for non-experts in KRL code via menu-guided command selection.
KUKA.HMI Zenon	Creation of customized, application-specific user interfaces for visualization and operator control without
KUKA.RemoteView ———	Allows remote access to the robot via a secure Internet connection, thereby offering the possibility of remote
KUKA.VirtualRemotePendant	Allows the use of EtherNet communication to run the user interface of the KUKA smartPAD on an external PC and to operate the robot.
KUKA.RobotSensorInterface	Supports simple and flexible interfacing with sensors in the KR C4. It is also possible to integrate a number of chappels with bard real-time requirements
KUKA.VisionTech	"onBoard" vision system including image processing, camera and sensors. Extensive configuration options
KUKA.ConveyorTech	Organizes the cooperation of robots and conveyors. Allows efficient, dynamic handling of parts, even for complex applications
KUKA.ForceTorqueControl –	Takes account of process forces and torques exerted on the workpiece during machining, and controls and adjusts these as specified in the program sequence. In applications such as grinding, polishing, bending or even assembly, this technology package is an indispensable help.
KUKA.SafeOperation	Flexible programming of safe cooperation between humans and machines. Definition of safe workspaces, velo-
KUKA.SafeRangeMonitoring	Beginners' tool for limiting and monitoring the safety and work areas of the robot. The monitoring and limitati- on of statically defined axis ranges creates an adequate degree of work safety for many applications.



<u> </u>	KUKA function and technology packages
KUKA.Gripper & SpotTech	 Programming of grippers and weld guns via easy-to-use inline forms for many industrial applications.
KUKA.ArcTech	 For rapid start-up and simple programming of arc welding applications. The complete portfolio of option packages, in combination with sensors and sequence control, enables arc welding at the highest level.
KUKA.LaserTech	 A modular, time-saving and easy-to-operate programming support package for laser cutting and laser welding. Both applications can be executed using the same robot – giving maximum flexibility as the
KUKA.ServoGun	 Workpiece needs to be clamped only once. Enables the operation of electric motor-driven spot weld guns with the KUKA robot controller. Various additional software options allow e.g. the elimination of mechanical gun compensation and other functions.
KUKA.GlueTech	 Functions. Enables user-friendly programming of dispensing applications such as bonding, seam sealing or application of support seams using inline forms on the KUKA robot controller.
KUKA.RoboTeam	 Coordinates and enables the high-precision interaction of a team of robots for handling a shared load or for working together on a moving workpiece.
KUKA.EtherNet KRL	 Makes it possible to exchange data with external computers via the EtherNet interface. The robot can
KUKA.OPC-Server	 — TUNCTION NERE DOTH AS A CLIENT AND AS A SERVER. Basic technology for standardized data exchange between robots and external controllers for non-real-time information streams, Ideal for interfacing with external visualization and MES systems,
KUKA.PLC Multiprog	 Programming environment for an extremely fast Soft PLC conforming to the IEC61131 standard. Expands the – functionality of the KR C4 and offers virtually unlimited openness in the programming of automation cells and
KUKA.PLC ProConOS —	 Applications. Runtime system of the KUKA.PLC Multiprog Soft PLC. PLC programs created with KUKA.Multiprog are run directly on the KR C4, with full access to the entire I/O system of the robot. Reading and processing of variables
KUKA.PLC mxA	 such as axis positions and velocity via function blocks. Allows direct commanding and positioning of the robot by external controllers (Siemens[®], Rockwell[®], etc.). The user thus requires no knowledge of robot programming in the KUKA-specific robot language
KUKA.CNC	 KRL. Complete software-based CNC implementation for execution of machine tool code (G-code) directly on the robot controller. This turns the robot, with its accuracy and stiffness, into a machining center for path-supported processes.
KUKA.Sim	 — — — — — — — — — — — — — — — — — — —

Contact KUKA at:



You

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