

KUKA



**The specialists
for high-accuracy
continuous-path
processes**

**KR 30 HA,
KR 60 HA**

»KR 30 HA AND KR 60 HA: FOR OPTIMAL PROCESS RESULTS

Whenever maximum precision is required, you'll be on the safe side with the robots of the HA series. There are three models available: with maximum payloads of 30, 60 or 100 kg, and with maximum reaches of 2,033, 2,429 or 3,000 mm. Thanks to their impressive repeatability rates, they are the ideal specialists for high-accuracy processes such as laser applications or measuring components.

With their modular design and simple control, the KUKA HA robots are both profitable and variable, as well as highly future-proof: this ensures not only simple offline programming but also rapid exchange and conversion – so the robot can be quickly adapted to new requirements and tasks. **The advantages: a high degree of planning reliability and security of investment.**

»EXTREMELY PRECISE – EXTREMELY OPTIMIZED

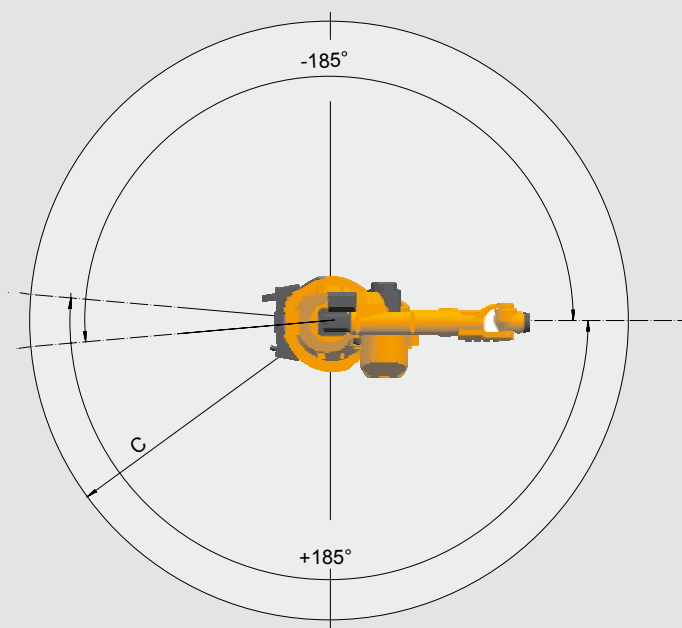
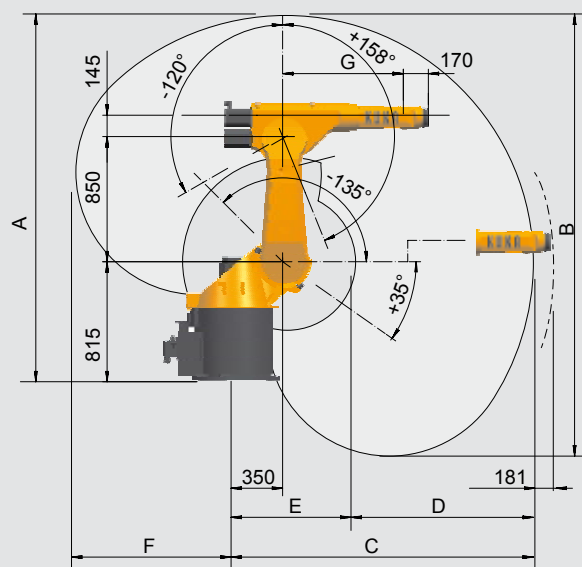
Utmost precision ensures maximum process quality: with special gear units, absolutely accurate calibration and high mechanical stiffness, the KR 30 HA and KR 60 HA offer impressively high positioning accuracy. The result is a point repeatability of less than ± 0.05 mm and a linear path repeatability of ± 0.16 mm – combined with very high correction velocities. **The advantages: optimum process results and fewer rejects.**

»EXTREMELY RELIABLE – EXTREMELY DYNAMIC

Increase your output: for high torsional and flexural rigidity, the KR 30 HA and KR 60 HA have a CAD- and FEM-optimized structure. This results in high mechanical stiffness, which ensures maximum process accuracy, also during contact. **The advantages: shorter cycle times and greater productivity.**

»TECHNICAL DETAILS KR 30 HA AND KR 60 HA

Dimensions: mm



Work envelope	Dimensions ¹⁾							Volume
	A	B	C	D	E	F	G	
KR 30 HA	2,498 mm	3,003 mm	2,033 mm	1,218 mm	815 mm	1,084 mm	820 mm	27.2 m³
KR 60 HA	2,498 mm	3,003 mm	2,033 mm	1,218 mm	815 mm	1,084 mm	820 mm	27.2 m³
KR 60 L45 HA	2,695 mm	3,398 mm	2,230 mm	1,362 mm	868 mm	1,283 mm	1,020 mm	36.9 m³
KR 60 L30 HA	2,894 mm	3,795 mm	2,429 mm	1,445 mm	983 mm	1,480 mm	1,220 mm	47.8 m³

¹⁾ Relative to intersection of axes 4/5

»EXTREMELY SPACE-SAVING – EXTREMELY LONG-RANGE

Open up your options: depending on your requirements, the KR 30 HA and KR 60 HA can be installed on a pedestal, on the ceiling or directly on the floor. Compact dimensions reduce the footprint and allow space-saving cell layouts. Furthermore, the KR 60 HA is optionally available with two different arm extensions, which significantly increase your radius of action. **The advantages: utmost flexibility and maximum scope.**

»EXTREMELY SIMPLE – EXTREMELY VERSATILE

KUKA has the right software package for your applications: for example, KUKA.SeamTech for automatic seam tracking, or KUKA.LaserTech for the integration of laser welding or laser cutting systems into the robot controller. Programming is also made easy by the intuitive user interface and clear visualization. **The advantages: maximum ease of operation and rapid commissioning.**

Type	KR 30 HA	KR 60 HA	KR 60 L45 HA	KR 60 L30 HA
Maximum reach	2,033 mm	2,033 mm	2,230 mm	2,429 mm
Rated payload	30 kg	60 kg	45 kg	30 kg
Suppl. load, arm/link arm/rotating col.	35/-/- kg			
Suppl. load, arm + link arm, max.	35 kg			
Maximum total load	65 kg	95 kg	80 kg	65 kg
Number of axes	6			
Mounting position	Floor, ceiling			
Variant				
Positioning repeatability*	±0.05 mm			
Path repeatability*	±0.16 mm			
Controller	KR C2 edition2005			
Weight (excluding controller), approx.	665 kg	665 kg	671 kg	679 kg
Temperature during operation	+10 °C to +55 °C			
Protection classification	IP 64, IP 65 (In-line wrist)			
Robot footprint	850 mm x 950 mm			
Connection	7.3 kVA			
Noise level	< 75 dB			

Axis data	Range (software)	Speed with rated payload			
		30 kg	60 kg	45 kg	30 kg
Axis 1 (A1)	±185°	140°/s	128°/s	128°/s	128°/s
Axis 2 (A2)	+35°/-135°	126°/s	102°/s	102°/s	102°/s
Axis 3 (A3)	+158°/-120°	140°/s	128°/s	128°/s	128°/s
Axis 4 (A4)	±350°	260°/s	260°/s	260°/s	260°/s
Axis 5 (A5)	±119°	245°/s	245°/s	245°/s	245°/s
Axis 6 (A6)	±350°	322°/s	322°/s	322°/s	322°/s

Drive system, electromechanical with brushless AC servomotors

*to ISO 9283

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.



»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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