

KUKA



**Series 2000:
The palletizer for the
high payload category**

**Series 2000
KR 240 270-2 PA**

»KR 240 270-2 PA: TOP DYNAMIC PERFORMANCE FOR PALLETIZING TASKS

Higher, faster, further: KUKA makes things easy for you – with the most extensive range of palletizing robots in the world. A total of eleven models are available for your palletizing, order picking and handling tasks: with payloads from 40 to 1,300 kg and reaches from 1,991 to 3,600 mm. This unique comprehensiveness gives you the flexibility to use the robot that is perfectly dimensioned for your requirements.

For individual models, various options are available: different arm extensions and the use of H1 oil approved for applications in the food industry. You can also decisively expand the work envelope of any model by mounting it on a KUKA linear unit. A further decisive factor: you benefit from top quality and shorter cycle times. **The advantages: a high degree of planning reliability and security of investment.**

»EXTREMELY SUCCESSFUL – EXTREMELY RELIABLE

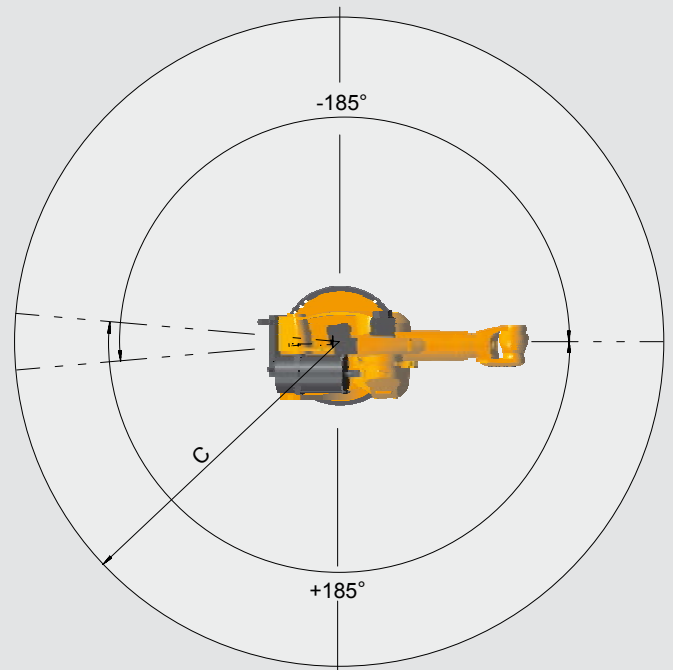
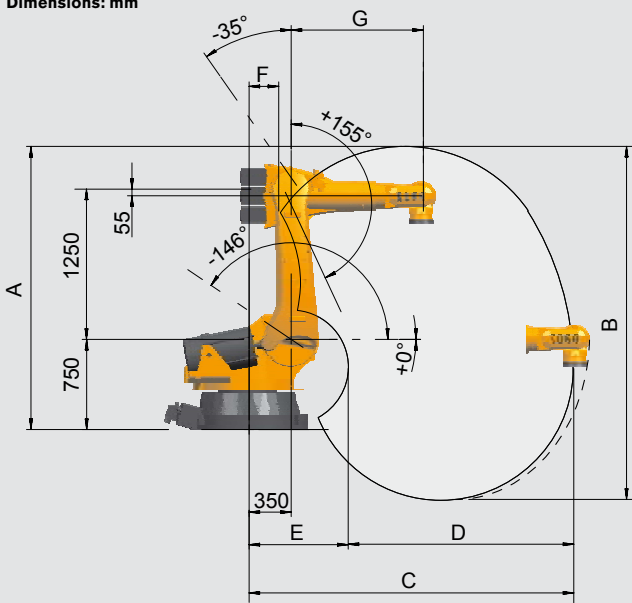
Tailored to your requirements: the optimized and service-proven 6-axis kinematic system of the KR 240 270-2 PA offers flexible motion for all kinds of palletizing task. Thanks to the special palletizing mode, this robot can lift particularly heavy payloads. And the service-proven standard KUKA controller and software ensure reliable production results. **The advantages: variable use and constant high performance.**

»EXTREMELY ADAPTABLE – EXTREMELY OPTIMIZED

Extend your range: the KR 240 270-2 PA is optionally available with arm extensions of up to 400 mm. This allows the robot's reach to be perfectly tailored to the specific application and flexibly adapted to new tasks. And thanks to the optimized design, this stacking specialist is also able to stack multiple pallets up to great heights with ease. **The advantages: utmost flexibility and maximum scope.**

»TECHNICAL DETAILS KR 240 270-2 PA

Dimensions: mm



Work envelope	Dimensions ¹⁾							Volume
	A	B	C	D	E	F	G	
KR 240 270-2 PA	2,356 mm	2,937 mm	2,700 mm	1,876 mm	824 mm	246 mm	1,100 mm	55.0 m ³
KR 240 L235-2 PA	2,471 mm	3,252 mm	2,900 mm	2,048 mm	852 mm	410 mm	1,300 mm	72.9 m ³
KR 240 L200-2 PA	2,585 mm	3,566 mm	3,100 mm	2,151 mm	949 mm	574 mm	1,500 mm	93.0 m ³

¹⁾ Relative to intersection of axes 4/5

»EXTREMELY STRONG – EXTREMELY FAST

Increase your output: the KR 240 270-2 PA belongs to the 2000 Series and therefore has particularly powerful motors, high-performance gear units and servo drive – specially designed for palletizing and depalletizing tasks. In conjunction with its low weight, this robot achieves a very high dynamic performance, resulting in significantly increased output. **The advantages: shorter cycle times and greater productivity.**

»EXTREMELY SIMPLE – EXTREMELY VERSATILE

KUKA has the right software package for your palletizing tasks: for example, KUKA.Pallet Pro for planning and controlling cells, or KUKA.GripperTech for simple gripper programming. For offline simulations and cycle time optimization we offer the program KUKA.Sim. Programming is also made easy by the intuitive user interface and clear visualization. **The advantages: maximum ease of operation and rapid commissioning.**

Type	KR 240 270-2 PA	KR 240 L235-2 PA	KR 240 L200-2 PA
Maximum reach	2,700 mm	2,900 mm	3,100 mm
Rated payload	270 kg	235 kg	200 kg
Suppl. load, arm/link arm/rotating col.	50/100/300 kg		
Suppl. load, arm + link arm, max.	100 kg		
Maximum total load	370 kg	335 kg	300 kg
Number of axes	6		
Mounting position	Floor		
Variant	-		
Positioning repeatability*	±0.12 mm		
Path repeatability*			
Controller	KR C2 edition2005		
Weight (excluding controller), approx.	1,267 kg	1,277 kg	1,285 kg
Temperature during operation	+10 °C to +55 °C		
Protection classification	IP 65		
Robot footprint	1,006 mm x 1,006 mm		
Connection	13.5 kVA		
Noise level	< 75 dB		

Axis data	Range (software)	Speed with rated payload		
		270 kg	235 kg	200 kg
Axis 1 (A1)	±185°	86°/s	82°/s	82°/s
Axis 2 (A2)	0°–146°	80°/s	78°/s	78°/s
Axis 3 (A3)	+155°/–35°	79°/s	74°/s	76°/s
Axis 4 (A4)	0°	100°/s	100°/s	100°/s
Axis 5 (A5)	±125°	110°/s	110°/s	110°/s
Axis 6 (A6)	±350°	184°/s	184°/s	184°/s

Drive system, electromechanical with brushless AC servomotors

Cycle: 400/2,000/400 mm

*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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