

**KUKA**



**The palletizers in  
the heavyweight class**

**KR 360 450-2 PA,  
KR 500 570-2 PA**

## »KR 360 450-2 PA AND KR 500 570-2 PA: SERVICE-PROVEN A THOUSAND TIMES OVER

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 POWERFUL – EXTREMELY RELIABLE

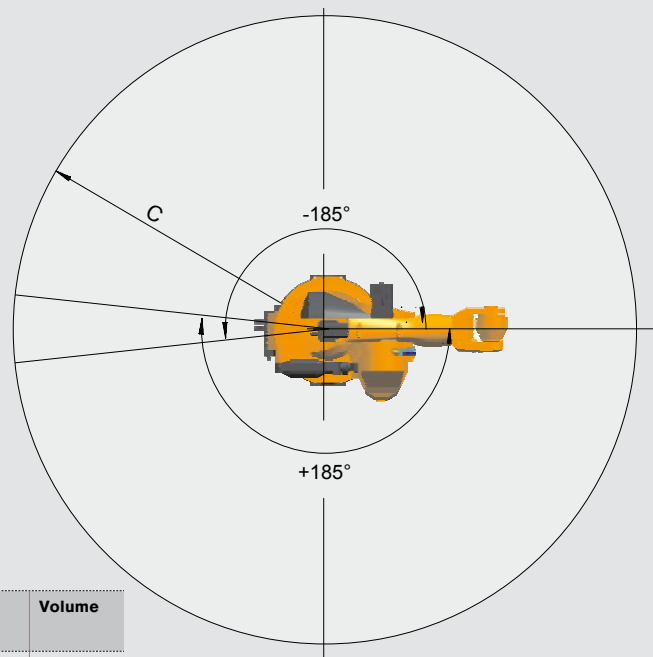
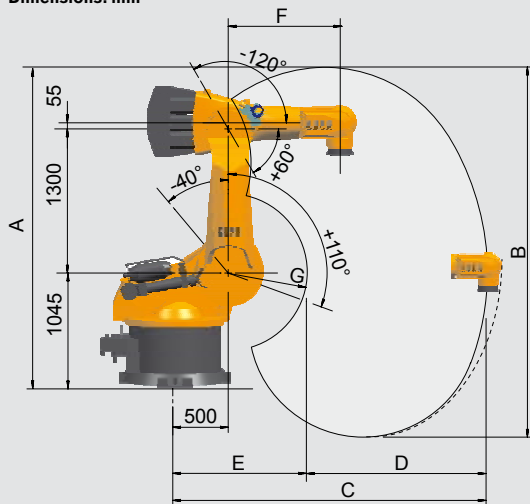
Tailored to your requirements: the optimized and service-proven 6-axis kinematic system of the models KR 360 450-2 PA and KR 500 570-2 PA offers flexible motion for all kinds of palletizing task. Thanks to the special palletizing mode, these robots can lift particularly heavy payloads. And the service-proven standard KUKA controller and software ensure reliable production results. **The advantages: shorter cycle times and greater productivity.**

### »EXTREMELY ADAPTABLE – EXTREMELY OPTIMIZED

Extend your range: the KR 360 450-2 PA and KR 500 570-2 PA are optionally available with arm extensions of up to 500 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, these heavy-duty specialists are able to stack multiple pallets up to great heights with ease. **The advantages: utmost flexibility and maximum scope.**

## »TECHNICAL DETAILS KR 360 450-2 PA AND KR 500 570-2 PA

Dimensions: mm



Work envelope	Dimensions <sup>1)</sup>							Volume
	A	B	C	D	E	F	G	
KR 360 450-2 PA	3,150 mm	3,339 mm	2,826 mm	1,621 mm	1,205 mm	1,025 mm	712 mm	68.0 m³
KR 360 L340-2 PA	3,028 mm	3,713 mm	3,076 mm	1,862 mm	1,214 mm	1,275 mm	722 mm	91.0 m³
KR 360 L280-2 PA	2,904 mm	4,085 mm	3,326 mm	2,018 mm	1,308 mm	1,525 mm	813 mm	118.0 m³
KR 500 570-2 PA	3,150 mm	3,339 mm	2,826 mm	1,621 mm	1,205 mm	1,025 mm	712 mm	68.0 m³
KR 500 L480-2 PA	3,028 mm	3,713 mm	3,076 mm	1,862 mm	1,214 mm	1,275 mm	722 mm	91.0 m³
KR 500 L420-2 PA	2,904 mm	4,085 mm	3,326 mm	2,018 mm	1,308 mm	1,525 mm	813 mm	118.0 m³

<sup>1)</sup> Relative to intersection of axes 4/5

## »EXTREMELY ROBUST – EXTREMELY RESISTANT

Specially engineered for extreme conditions: the KR 500 570-2 PA is also available in the special Foundry variant (F) with a protection rating of IP 67 for environments with a high degree of fouling and high temperatures. The main features of this robot model include the heat-resistant in-line wrist and the special heat-reflecting triple-coat paint. **The advantages: constant performance and maximum safety.**

## »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 360 450-2 PA	KR 360 L340-2 PA	KR 360 L280-2 PA	KR 500 570-2 PA	KR 500 L480-2 PA	KR 500 L420-2 PA
Maximum reach	3,339 mm	3,713 mm	4,085 mm	3,339 mm	3,713 mm	4,085 mm
Rated payload	450 kg	340 kg	280 kg	570 kg	480 kg	420 kg
Suppl. load, arm/link arm/rotating col.	50/100/400 kg					
Suppl. load, arm + link arm, max.	100 kg					
Maximum total load	950 kg	840 kg	780 kg	1.070 kg	980 kg	920 kg
Number of axes	6					
Mounting position	Floor					
Variant	-					
Positioning repeatability*	±0,15 mm					
Path repeatability*						
Controller	KR C2 edition2005					
Weight (excluding controller), approx.	2,350 kg	2,375 kg	2,385 kg	2,350 kg	2,375 kg	2,385 kg
Temperature during operation	+10 °C to +55 °C					
Protection classification	IP 65					
Robot footprint	1.240 mm x 1.240 mm					
Connection	13,5 kVA					
Noise level	< 75 dB					

Drive system, electromechanical with brushless AC servomotors

Cycle: 400/2,000/400 mm

\*to ISO 9283

Axis data	Range (software)	Speed with rated payload					
		450 kg	340 kg	280 kg	570 kg	480 kg	420 kg
Axis 1 (A1)	±185°	89°/s	89°/s	89°/s	69°/s	69°/s	71°/s
Axis 2 (A2)	+110°/-40°	89°/s	89°/s	89°/s	69°/s	69°/s	71°/s
Axis 3 (A3)	+60°/-120°	93°/s	93°/s	93°/s	69°/s	69°/s	71°/s
Axis 4 (A4)	±350°	157°/s	157°/s	157°/s	120°/s	120°/s	157°/s

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## »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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