

KUKA

**The world's strongest
palletizer**

KR 1000 1300 titan PA



»KR 1000 1300 TITAN PA: FOR THE HEAVIEST COMPONENTS

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 STRONG – EXTREMELY COMPACT

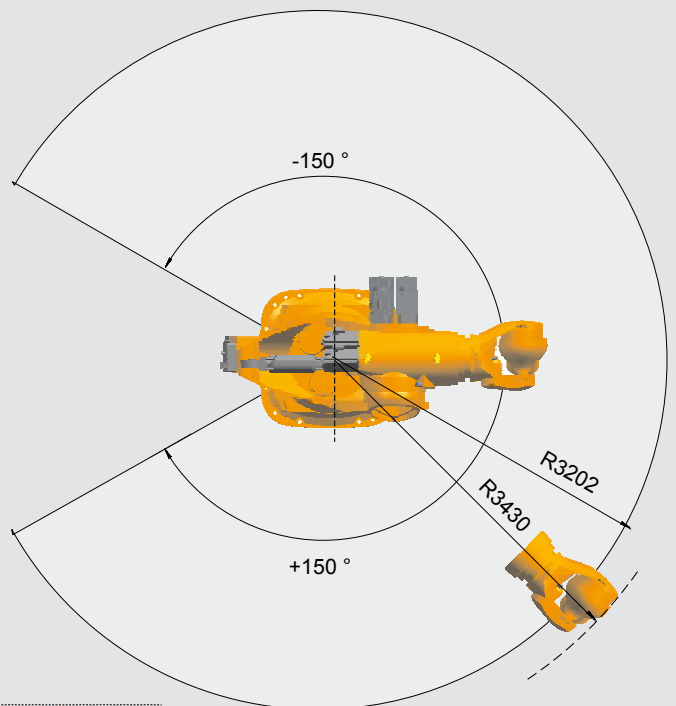
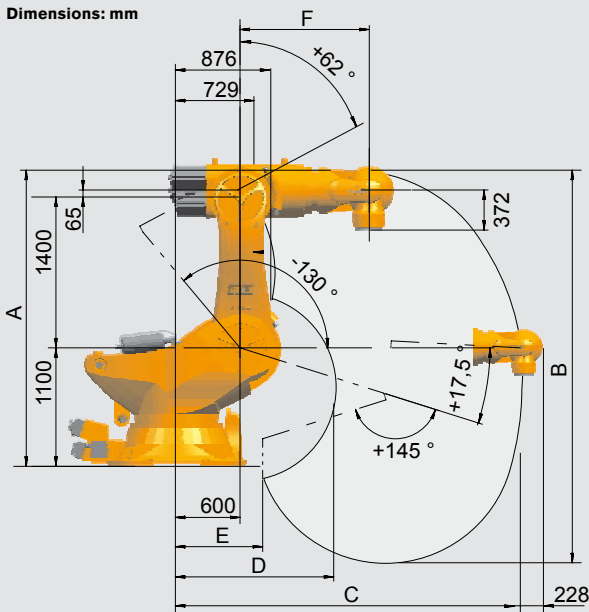
Whether it's engine blocks, stones or steel sections: as the world's strongest palletizing robot, the KR 1000 1300 titan PA effortlessly handles payloads weighing up to 1,300 kg – with high dynamic characteristics and short cycle times. Furthermore, with its compact design, relatively low weight, and installation components and fastening elements integrated as standard, this heavyweight champion is quickly and easily integrated into a system. **The advantages: shorter cycle times and greater productivity.**

»EXTREMELY LONG-RANGE – EXTREMELY OPTIMIZED

Extend your radius of action: with the optional arm extension, you can increase the reach of this palletizing robot to as much as 3,600 mm. This allows the robot to be perfectly tailored to the specific application and flexibly adapted to new tasks. What's more: its small interference contour results in a significant expansion of the effectively usable work envelope. **The advantages: utmost flexibility and maximum scope.**

»TECHNICAL DETAILS KR 1000 1300 titan PA

Dimensions: mm



Work envelope	Dimensions ¹⁾						Volume
	A	B	C	D	E	F	
KR 1000 1300 titan PA	2,749 mm	3,644 mm	3,202 mm	1,470 mm	810 mm	1,200 mm	69.5 m ³
KR 1000 L950 titan PA	2,937 mm	4,231 mm	3,601 mm	1,579 mm	1,301 mm	1,600 mm	102.5 m ³

¹⁾ Relative to intersection of axes 4/5

» **EXTREMELY ROBUST - EXTREMELY RESISTANT**

Specially engineered for extreme conditions: the KR 1000 1300 titan PA is available with or without an arm extension 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.**



Mounted on a linear unit: the KR 1000 1300 titan handles wooden boards at Anthon.

» **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.**



The KR 1000 1300 titan effortlessly handles glass panels at Grenzbach.

Type	KR 1000 1300 titan PA	KR 1000 L950 titan PA
Maximum reach	3,202 mm	3,601 mm
Rated payload	1,300 kg	950 kg
Suppl. load, arm/link arm/rotating col.	50/-/- kg	
Suppl. load, arm + link arm, max.	50 kg	
Maximum total load	1,350 kg	1,000 kg
Number of axes	5	
Mounting position	Floor	
Variant		
Positioning repeatability*	±0.20 mm	
Path repeatability*		
Controller	KR C2 edition2005	
Weight (excluding controller), approx.	4,690 kg	4,740 kg
Temperature during operation	+10 °C to +55 °C	
Protection classification	IP 65	
Robot footprint	2,000 mm x 2,000 mm	
Connection	13.5 kVA	
Noise level	< 75 dB	

Axis data	Range (software)	Speed with rated payload	
		1,300 kg	950 kg
Axis 1 (A1)	±150°	58°/s	58°/s
Axis 2 (A2)	+17.5°/-130°	50°/s	50°/s
Axis 3 (A3)	+62°/+145°	50°/s	50°/s
Axis 4 (A4)	0°	60°/s	60°/s
Axis 5 (A5)	±118°	60°/s	60°/s
Axis 6 (A6)	±350°	72°/s	72°/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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