

KUKA



**The fastest palletizer
in its class**

KR 40 PA

»KR 40 PA: LONG REACH AND HIGH STACKING CAPABILITY

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 FAST – EXTREMELY LONG-RANGE

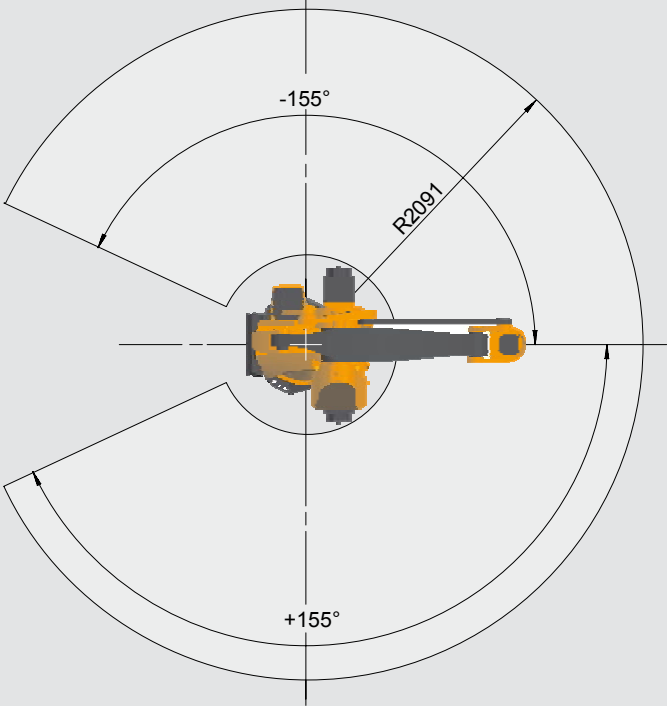
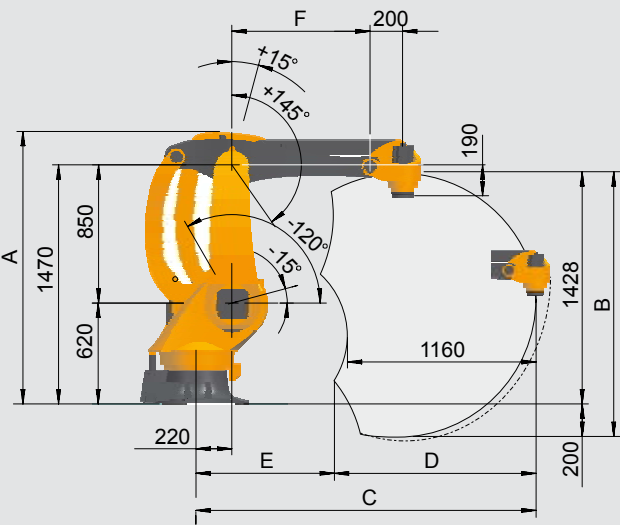
Increase your palletizing output: with an impressive working speed of 56 cycles per minute, the KR 40 PA is the fastest robot in its class. And as if that were not enough, its optimized 4-axis kinematic system also gives it the largest work envelope that's available on the market: with a reach of up to 2,091 mm and a stacking height of up to 1.8 m. **The advantages: shorter cycle times and greater productivity.**

»EXTREMELY LIGHT – EXTREMELY RELIABLE

Thanks to the use of carbon-fiber-reinforced components, the KR 40 PA scores in more ways than one: firstly, this reduces the mass that has to be moved, thereby significantly increasing performance and reducing energy consumption. Secondly, the usual high stiffness is maintained, guaranteeing reliable operation for every requirement. **The advantages: greater performance and lower energy consumption.**

»TECHNICAL DETAILS KR 40 PA

Dimensions: mm



Work envelope	Dimensions ¹⁾						Volume
	A	B	C	D	E	F	
KR 40 PA	1,675 mm	1,628 mm	2,091 mm	1,240 mm	851 mm	850 mm	12.6 m³

¹⁾ Relative to intersection of axes 4/5

»EXTREMELY CLEVER – EXTREMELY WELL-DESIGNED

Save on costs, not on quality: the KR 40 PA offers an integrated energy supply system for air and control lines, together with a Multibus line for various bus systems. For most applications, this means that a cost-intensive additional dress package is not even necessary. And you also benefit from maximum availability and operation without interference contours. **The advantages: optimal availability and effective cost savings.**

»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 40 PA
Maximum reach	2,091 mm
Rated payload	40 kg
Suppl. load, arm/link arm/rotating col.	20/-/50 kg
Suppl. load, arm + link arm, max.	20 kg
Maximum total load	110 kg
Number of axes	4
Mounting position	Floor
Variant	
Positioning repeatability*	±0.25 mm
Path repeatability*	
Controller	KR C2 edition2005
Weight (excluding controller), approx.	700 kg
Temperature during operation	+5 °C bis +55 °C
Protection classification	IP 65
Robot footprint	850 mm x 950 mm
Connection	13.5 kVA
Noise level	< 75 dB

Drive system, electromechanical with brushless AC servomotors

Cycle: 125/500/600 mm

*to ISO 9283

Axis data	Range (software)	Speed with rated payload
		100 kg
Axis 1 (A1)	±155°	183°/s
Axis 2 (A2)	-15°/-120°	153°/s
Axis 3 (A3)	+15°/+145°	212°/s
Axis 4 (A4)	±350°	374°/s

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

KUKA ROBOTER GMBH

Global Sales Center
Hery-Park 3000
86368 Gersthofen
Germany
Tel. +49 821 4533-0
Fax +49 821 4533-1616
info@kuka-roboter.de

Additional contact addresses:
www.kuka-robotics.com