

»KR 30 JET AND KR 60 JET: THE RAPID WORKSPACE EXTENDERS

Open up more space for more productivity: the KUKA JET gantry robots are the ideal combination of linear unit and jointed-arm robot. This synthesis gives you two decisive advantages: firstly, you benefit from maximum reach and an enormous work envelope. Secondly, you have an extremely fast robot system with a traversing velocity of up to 3.2 meters per second.

The JET robots can be installed in both the inverted and side-mounted positions. A wide range of gantry variants and linear units that are specially tailored to your requirements ensure that the best automation concept is employed for every production process. **The advantages: high planning reliability and security of investment.**

»EXTREMELY FAST – EXTREMELY FLEXIBLE

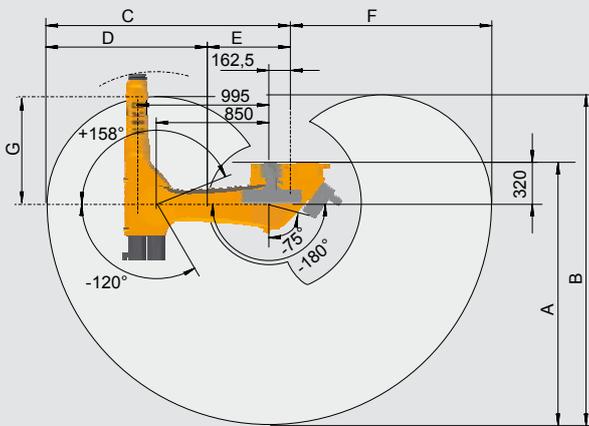
Boost your production output: by eliminating axis 1 and thereby reducing the overall weight, the JET robots achieve optimal accelerations and maximum working velocities – making them ideal e.g. for rapid removal of parts from above the machine. Two robots can even be operated on a single JET axis, allowing several production processes to be performed at the same time. **The advantages: shorter cycle times and greater productivity.**

»EXTREMELY SPACE-SAVING – EXTREMELY LONG-RANGE

Maximize your potential: the gantry design saves valuable shop space, allowing several machines to be tended simultaneously from above. An additional plus point: the length of the linear axis is tailored to your individual requirements in steps of 0.4 m. In this way, even large distances of up to 20 m can be bridged without difficulty. **The advantages: high adaptability and simple integration.**

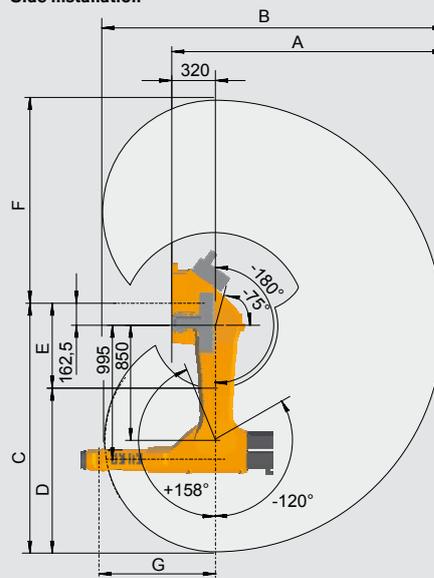
»TECHNICAL DETAILS KR 30 JET AND KR 60 JET

Inverted installation



Dimensions: mm

Side installation



Work envelope	Dimensions ¹⁾							Volume
	A	B	C	D	E	F	G	
KR 30 JET	2,002 mm	2,516 mm	1,845 mm	1,218 mm	627 mm	1,520 mm	820 mm	5.7 m ³
KR 60 JET	2,002 mm	2,516 mm	1,845 mm	1,218 mm	627 mm	1,520 mm	820 mm	5.7 m ³
KR 60 L45 JET	2,202 mm	2,916 mm	2,045 mm	1,363 mm	682 mm	1,720 mm	1,020 mm	7.3 m ³
KR 60 L30 JET	2,402 mm	3,316 mm	2,245 mm	1,446 mm	799 mm	1,920 mm	1,020 mm	9.0 m ³

¹⁾ Relative to intersection of axes 4/5

»EXTREMELY VARIABLE - EXTREMELY OPTIMIZED

Bank on diversity: in addition to the KR 30 JET, the KR 60 JET is available with two different arm extensions, further increasing the reach and radius of action. For use in environments with a high degree of fouling, the special Foundry (F) variant is also available for every JET robot – perfectly equipping it for removing parts from die casting and injection molding machines.

The advantages: greater flexibility and greater planning security.

»EXTREMELY VERSATILE - EXTREMELY SAFE

KUKA offers you a comprehensive range of software. In addition to system software and simulation programs for system design, we also provide you with specific application software, such as KUKA.PlastTech: the software coordinates and optimizes the work process of robots and injection molding machines – thereby reducing the cycle time for production of the parts.

The advantages: maximum ease of operation and major time savings.



The safely routed cable carrier on the upper side of the KUKA JET, here side-mounted, allows unimpeded motion.



Two robots can be operated on a single JET axis, thus ensuring maximum flexibility.

Type	KR 30 JET	KR 60 JET	KR 60 L45 JET	KR 60 L30 JET
Maximum reach	2,002 mm	2,002 mm	2,202 mm	2,402 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	Inverted, side-mounted			
Variant	Foundry			
Positioning repeatability*	±0.10 mm	±0.15 mm	±0.15 mm	±0.15 mm
Path repeatability*				
Controller	KR C2 edition2005			
Weight (excluding controller), approx.	435 kg	435 kg	471 kg	479 kg
Temperature during operation	+10 °C to +55 °C			
Protection classification	IP 64 (robot), IP 65 (linear unit, in-line wrist)			
Robot footprint				
Connection	7.3 kVA			
Noise level	< 75 dB			

Drive system, electromechanical with brushless AC servomotors

*to ISO 9283

²⁾ Gradation 400 mm

Axis data	Range (software)	Speed with rated payload			
		30 kg	60 kg	45 kg	30 kg
Axis 1 (A1)	Length-dependent ²⁾	3.2 m/s	3.2 m/s	3.2 m/s	3.2 m/s
Axis 2 (A2)	0°/-180°	126°/s	120°/s	120°/s	120°/s
Axis 3 (A3)	+158°/-120°	166°/s	166°/s	166°/s	166°/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

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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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