



- KUKA KR 1000 TITAN

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POWER MEETS PERFECTION



KUKA KR 1000 TITAN ○ THE TITAN OF PRODUCTION AUTOMATION

KUKA is reinforcing its claim as the highly dynamic innovator of industrial robotics. With the new champion in the class of heavy-duty robots – the KUKA KR 1000. Powerful and dynamic, the KUKA KR 1000 masters the safe and precise handling of the heaviest components. Its payload capacity of 1,000 kg – the highest of any industrial robot with an open kinematic chain – is coupled with an enormous horizontal reach of 3,200 mm and a huge vertical reach of 5,000 mm. It eliminates the need for lift stations or other lifting equipment. Its completely new design allows speed and dynamics production planners could previously only dream of: minimum cycle times and maximum payload and flexibility.

UNIQUE



KUKA KR 1000 TITAN – ENDLESS ADVANTAGES

MORE POWERFUL: At 1,000 kg, the highest payload capacity of all 6-axis robots with an open kinematic chain.

FASTER: High working velocities due to FEM- and CAD-optimized dead weight, dynamic AC motors and fast-reacting controller.

LONGER REACH: A horizontal reach of 3,200 mm and a vertical reach of 5,000 mm open up new applications in flexible production.

SAFER: Safe Option for software-based machine protection and operator safety.

MORE PRECISE: Maximized repeatability due to optimized robot design.

MORE ROOM TO MANEUVER: No restriction of axis motion ranges due to integrated energy and fluid supply systems.

LOWER MAINTENANCE: Overload-protected, pluggable brushless AC servomotors and lifetime-lubricated main axes.

MORE ROBUST: Foundry version with heat- and corrosion-protected paintwork and a special Foundry wrist with high impact strength and resistance to both acids and alkalis.



1 ROBOT FLANGE

Payloads of 1.000 kg can be moved

2 MATERIAL

Ductile cast iron guarantees maximum stability

3 MOTORS

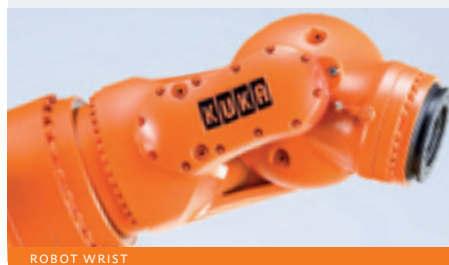
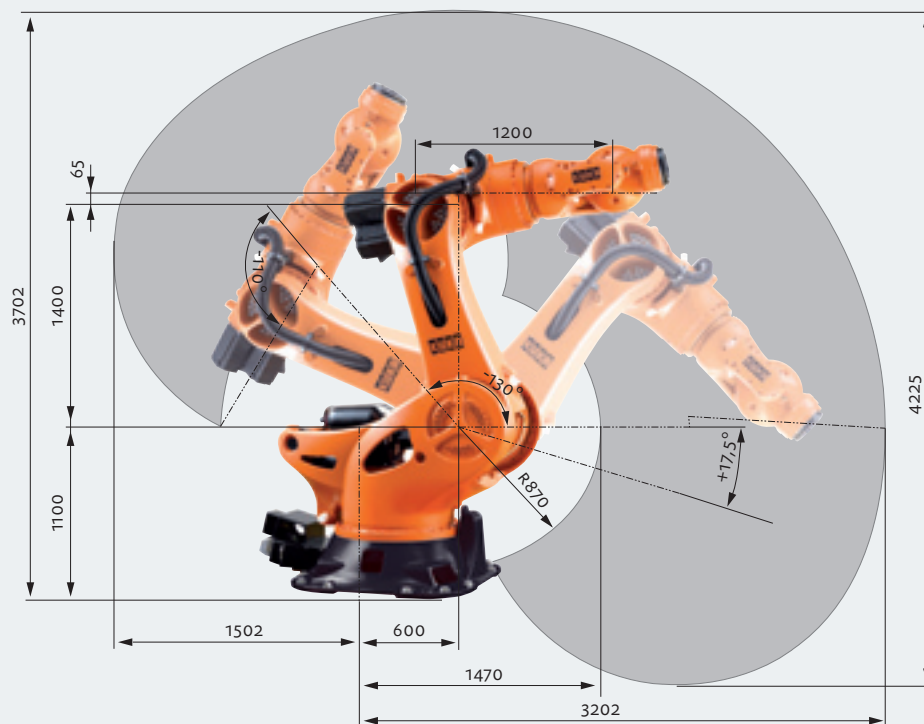
Twin drives in main axes 1,2 and 3 ensure maximum dynamics

4 KINEMATICS

The open 6-axis kinematic chain allows a large work envelope and maximum flexibility

5 REACH

A vertical reach of up to 5 m is possible



ROBOT WRIST



KUKA CONTROL PANEL (KCP)



DOUBLE SERVMOTOR

ROBOTICS PIONEER

When you opt for KUKA robots, you can be sure you're making the right choice. Whatever field of application you choose, KUKA has the optimal robot. Thanks to our core competencies in development and production and our expertise in controllers and software, KUKA gives you solutions today that will still be demonstrating their efficiency in the world of tomorrow.

MORE DYNAMIC THROUGH INNOVATION

CAD- and FEM-optimized assemblies, made predominantly from robust ductile cast iron, give the robot high torsional and flexural strength. The innovative drive concept with nine integrated motors allows dynamics and velocities that were hitherto considered unattainable for this payload category.

SERVICE-PROVEN CONTROLLER

With the Windows-based KUKA controller KR C2, you benefit from technology that has been service-proven thousands of times, and which will simplify the installation, commissioning and programming of your robot. The new drive concept of the KUKA KR 1000 with its nine integrated motors also uses the KR C2 for its control and power supply.

TOP PRECISION IN PRODUCTION

Innovative mechatronics and finely tuned control loops in the kinematic system achieve repeatabilities that are proof of KUKA quality.

FIRST-CLASS SERVICE

The KUKA team advises and supports you to develop the optimal solution. Our close-knit service network and extremely fast response

times guarantee maximum availability throughout the entire service life. Your employees are trained for success in KUKA College courses.

WHERE OTHERS CAN'T TAKE THE HEAT, THE KR 1000 FOUNDRY KEEPS ITS COOL

Heavy loads, complex work processes and high temperatures: the Foundry version of the KR 1000 TITAN is designed for use in foundries, steel works and rolling mills. It gives full service even when handling the heaviest components, even when your production really heats up. The KUKA Foundry version withstands high temperatures in foundries and similar environments reliably and safely. This is guaranteed by abrasion- and heat-resistant paintwork, special seals, and the Foundry wrist with a protection rating of IP 67.

KR 1000 TITAN

Payload	
Number of axes	
Mounting position	
Repeatability (ISO 9283)	
Weight (excl. controller) approx.	

	1,000 kg
	6
	Floor
	± 0.2 mm
	4,700 kg

KUKA KR 1000 TITAN ○ 1000 KG — SHIFTED WITHIN SECONDS

The KUKA KR 1000 is the right choice when it comes to bridging distances of up to 6.5 m and ensuring precise handling of engine blocks, stone, glass, steel sections, components for ships and aircraft, marble blocks, precast concrete parts and much more.

PAYLOAD RECORD

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