Entertainment robots
KR700 R2510 passenger
The robot that moves people. The 4-axis kinematic system of the KR700 R2510 passenger performs versatile and sophisticated circular motions while ensuring safe operation, irrespective of whether it forms part of a stationary, robot-based simulator or is mounted on a carriage in a dark amusement ride.

- Payload up to 800 kg *
- Maximum flexibility
- Can be deployed in stationary applications or on carriages in amusement rides

KR700 R2510 passenger  +  KR C4 passenger  +  Passenger gondola **  =  your solution

* with reduced payload distance
** available from KUKA system partners
One robot, endless possibilities.

Thanks to our freely programmable drive, the KR 700 R2510 passenger simulates each motion sequence with the utmost precision. Another plus point: up to four people can experience the hair-raising ride at the same time thanks to its multi-flexible motion sequences. The robot delivers a breathtaking, thrilling experience in an amusement ride at the push of a button.

A control system for the future. There would be no thrill of the ride without a suitable controller. The KR C4 passenger is a customer-specific 4-axis controller with a stable installation frame and therefore ideally suited to mounting on a mobile carriage. This system controller has been geared specifically towards the motion sequences of 4-axis robots. The KR-C4 passenger controller is operated using the KUKA smartPAD touch display with a hot-pluggable connecting cable to the KUKA smartPAD touch display with the motion sequences of 4-axis robots.

Every single robot is ISO certified. Safety at all points of operation is assured at KUKA, especially when it comes to transporting people. This is evident in the fact that the KR-C4 passenger is certified to carry passengers, being certified by the German technical inspectorate TÜV in conformity to EN 13814 and the GB Code) for operations using VR glasses or a projection dome. These are individual, virtual simulations using 1 to 4 passengers as well as on a carriage as part of an attraction. Absolutely safe and thrilling ride thanks to KUKA SafeOperation. The safety configuration of the robot can be secured by way of a password-based authorization system. It is possible to monitor up to 16 individual cells and fixed cell areas (PLd). The axis acceleration and velocity, the Cartesian velocity (PLd) and the dynamic activation of the monitoring functions via the inputs (PLd) can be permanently monitored. Up to 16 outputs (PLd) can be checked by a signal function, and the KR-C4 passenger features a safe operational stop for the individual axes and axis groups as well as an automatic brake test (PLd). Moreover, there is an in-built fault interface and an additional encoder interface in each of the individual axes (optional).

The technology integrated into each axis is outstanding. AC servo drives, built-in is coordinate converters with electronic brake drives and fixed stops to AK. Each axis also has an additional brake module on the drive side as well as an optional supplementary encoder on the same side.

The 30-metre-long flange with its 2m narrow axle ensures ideal energy supply a 3-axis-spined carrier system as package only to be installed. Also included is a dress package on this robot for the remote supply of energy to customer applications.

Every single axis is ISO certified. Safety at all points of operation is assured at KUKA; especially when it comes to transporting people. This is evident in the fact that the KR-C4 passenger is certified to carry passengers, being certified by the German technical inspectorate TÜV in conformity to EN 13814 and the GB Code) for operations using VR glasses or a projection dome. These are individual, virtual simulations using 1 to 4 passengers as well as on a carriage as part of an attraction.

Absolutely safe and thrilling ride thanks to KUKA SafeOperation. The safety configuration of the robot can be secured by way of a password-based authorization system. It is possible to monitor up to 16 individual cells and fixed cell areas (PLd). The axis acceleration and velocity, the Cartesian velocity (PLd) and the dynamic activation of the monitoring functions via the inputs (PLd) can be permanently monitored. Up to 16 outputs (PLd) can be checked by a signal function, and the KR-C4 passenger features a safe operational stop for the individual axes and axis groups as well as an automatic brake test (PLd). Moreover, there is an in-built fault interface and an additional encoder interface in each of the individual axes (optional).

The technology integrated into each axis is outstanding. AC servo drives, built-in is coordinate converters with electronic brake drives and fixed stops to AK. Each axis also has an additional brake module on the drive side as well as an optional supplementary encoder on the same side.

The 30-metre-long flange with its 2m narrow axle ensures ideal energy supply a 3-axis-spined carrier system as package only to be installed. Also included is a dress package on this robot for the remote supply of energy to customer applications.
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 is determined by the subject matter of the specific contract. No liability accepted for errors or omissions. Subject to technical alterations.

© 2017 KUKA Roboter GmbH