The robot that moves people. The 4-axis kinematic system of the KR 700 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 ride vehicle in dark rides.

- Maximum flexibility
- Payload up to 800 kg
- Can be integrated into stationary applications or ride vehicle in amusement rides

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1. with reduced payload distance
2. available from KUKA system partners

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Energy supply to customer applications.

The KR 700 R2510 passenger and its KR C4 passenger controller impress with their extremely high precision that turns every simulation into a headline-grabbing attraction. No matter where it is in action – in theme parks, family entertainment centers (FECs) or large amusement parks – the KR 700 R2510 passenger uses multi-flexible motion sequences to deliver a breathtaking and thrilling ride experience at the push of a button.

One-robot, endless application possibilities

Thanks to four freely programmable axes, the KR 700 R2510 passenger simulates each motion sequence with absolute precision. Another plus point is that four people can experience the thrilling ride at the same time (thanks to the control-payload capacity of 800 kg).

The technology integrated into each axis is outstanding: 42,000 motors (built in coordinates converters with electromechanical brakes and fixed stops) at A1 to A3. Each axis also has an additional brake module on the rotating side as well as an optional supplementary encoder on the drive side.

The 5m-long 3D-measuring range with its 20 mm hollow shaft for internal energy supply (open – close-2 modules) in various passenger cars can be installed. Also available: a dress-up option for the robot.

A control system for the future

There would be no thrill of the ride without a suitable controller. The KR C4 passenger is a custom-specific system controller with a stable modular frame and therefore ideally suited to mounting on a mobile carriage. This system controller has been geared specifically towards the motion sequences of our robots. The KR C4 passenger is operating using the KUKA smartHMI touch display with a ten-pluggable connecting cable together with a tablet/iPad (communication via integrated WLAN, animation interface).

Every single system is TÜV certified. Safety is of paramount importance at KUKA – especially when it comes to entertaining people. This is evident in the fact that the KUKA passenger is licensed to carry passengers, being certified by the German technical inspectorate TÜV as conforming to EN 13814. Each and every robot system leaves our factory with TÜV-certified EN 13814. Each and every robot system is licensed to carry passengers, being certified by the German technical inspectorate TÜV.

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Absolutely safe and thrilling ride

Thanks to KUKA’s smartHMI touch display with a ten-pluggable connecting cable together with a tablet/iPad (communication via integrated WLAN, animation interface).

Flexibility. Intelligence. Precision.