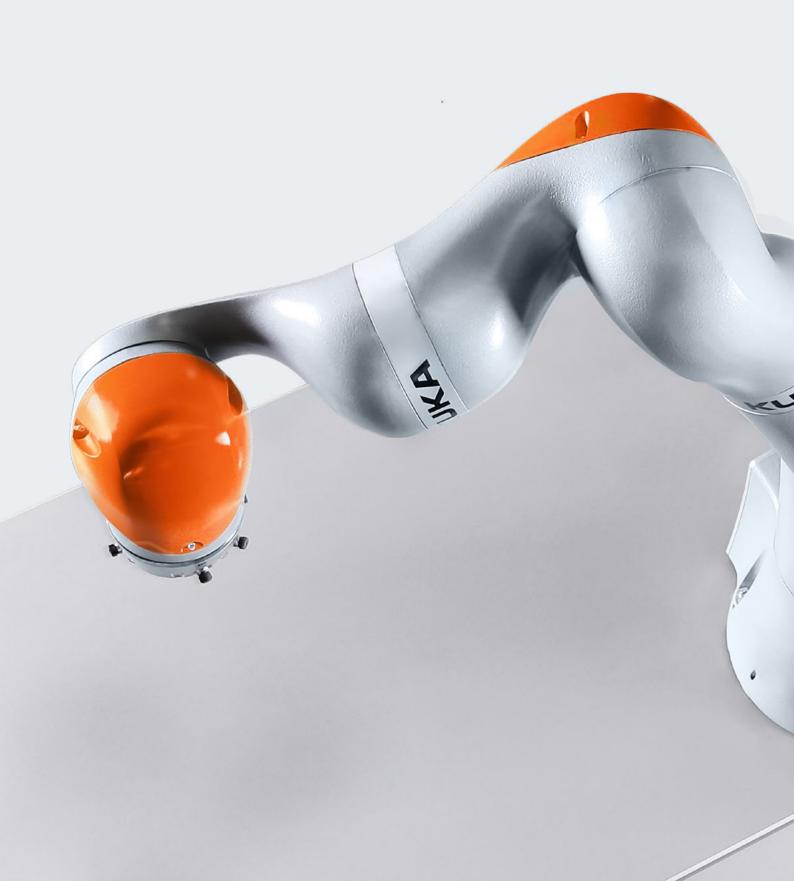
KUKA



KMR iiwa.

Always spot-on safely.



_Mobile platforms and mobile robotics

KMR iiwa. Always spot-on safely.

Significantly optimizes your production.

The KMR iiwa is a combination of the sensitive LBR iiwa lightweight robot and a mobile, flexible platform. As the name and the individual components already suggest, the KMR iiwa stands out with its high degree of mobility and flexibility.

Manufacturing processes are changing constantly. This is why mobile robot systems must be very adaptable. Maximum mobility and autonomous working methods significantly optimize your production.



Combinable. Design your individual turnkey system solution. The modular KMR iiwa system offers numerous combinations of robot technology, mobile platforms and industrial components.

Sensitive. Seven special joint torque sensors on each axis of the LBR iiwa lightweight robot make it highly sensitive to its environment. It navigates safely and without protective fencing – external contact will cause it to stop immediately.

Autonomous. Thanks to the laser scanners, the mobile platform can navigate fully autonomously. It monitors its environment. And it reacts immediately if a person or object is in the way.

Agile. Specially developed Mecanum wheels allow the mobile platform to move omnidirectionally and execute 360° rotations. A wheel consists of several rollers that are each aligned at an angle of 45° relative to the axle. This top-notch maneuverability shortens throughput times and reduces idle times in the manufacturing process.

Precise. The KMR iiwa achieves a positioning accuracy of up to ±0.1 millimeters, even in the tightest spaces.

Intelligent. With KUKA.NavigationSolution, the KMR iiwa can reliably move around obstacles and find a new route.

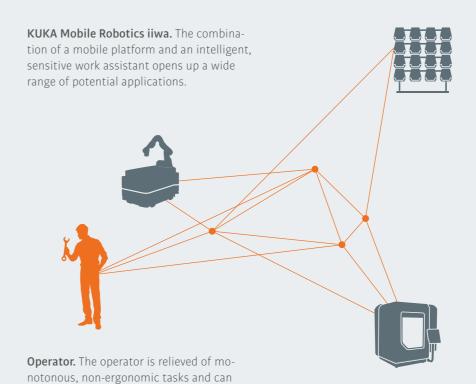
Independent. The vehicle and robot are supplied directly with power from Li-ion batteries.

User-friendly. KUKA Sunrise Cabinet and KUKA Sunrise.OS for vehicles and robots simplify the operation and use of the KMR iiwa.



Intelligent system.

concentrate on important processing steps.



High-bay racking. Thanks to its innovative navigation system, the KMR iiwa operates autonomously and is able, for example, to set down machined workpieces or independently fetch -required components.

Machine tool. The KMR iiwa takes over the tending of machine tools and relieves the human operator of strenuous and tiring tasks.



| LBR iiwa | LBR iiwa 14 R820 | LBR iiwa 7 R800 |
|-------------------------------|----------------------|----------------------|
| Rated payload | 14 kg | 7 kg |
| Number of axes | 7 | 7 |
| Reach | 820 mm | 800 mm |
| Wrist variant | In-line wrist | In-line wrist |
| Mounting flange on axis 7 | DIN ISO 9409-1-A50 | DIN ISO 9409-1-A50 |
| Pose repeatability | ±0.15 mm | ±0.1 mm |
| Axis-specific torque accuracy | ±2% | ±2% |
| Weight | 29.9 kg | 23.9 kg |
| Protection rating | IP54 | IP54 |
| Variants | CR | CR |
| Installation position | Floor, ceiling, wall | Floor, ceiling, wall |
| | | |

| Mobile platforms | | |
|------------------------------------|--|--|
| Dimensions (H×W×B) | $700\times1,080\times630\text{mm}$ (with scanners and protected areas) | |
| Weight | 390 mm | |
| Maximum payload | 170 kg / 200 kg without LBR iiwa | |
| Velocity in longitudinal direction | max. 3.6 km/h | |
| Velocity in lateral direction | max. 2.0 km/h | |
| Wheel diameter | 250 mm | |
| Cleanroom class | ISO 5 | |

CR Suitable for cleanrooms

The technical data in the tables apply exclusively to standard versions.



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