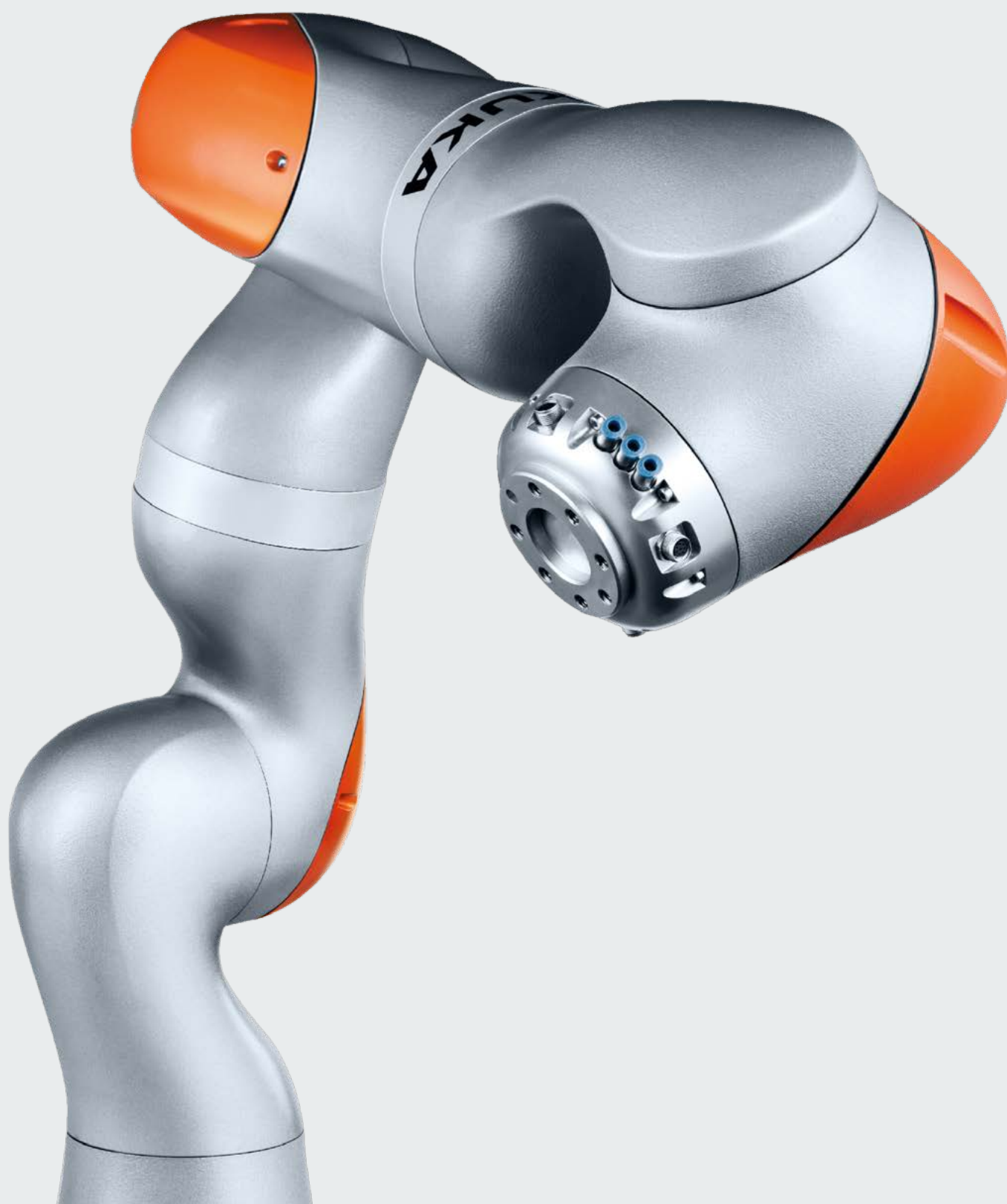


KUKA



KUKA Cobots

The intelligent robot as a colleague.





LBR iiwa. A feel for the production world of tomorrow.



With the arrival of the LBR iiwa – one of KUKA's lightweight cobots specializing in sensitive assembly work – safety fences make way for human-robot collaboration in the workspace.

Quick reactions. Thanks to its joint torque sensors, the LBR iiwa detects contact immediately and reduces its level of force and speed instantly. Its position and compliance control enables it to handle delicate components without creating crushing and shearing hazards.

Able to learn. Choose from three operating modes and program the LBR iiwa by means of simulation: show it the desired position – it remembers the coordinates of the point on the path. Stop for breaks and control it with simple touch commands.

Sensitive. The lightweight LBR iiwa with its high-performance servo control is able to detect contours quickly under force control. It establishes the correct installation position and mounts components quickly and with the utmost precision with an axis-specific torque accuracy of ± 2 percent of the maximum torque. The LBR iiwa can also find small, delicate components in next to no time without your assistance.

Independent. The LBR iiwa's controller, KUKA Sunrise Cabinet, simplifies the quick start-up of even complex applications. Give your operator a third hand – and have the LBR iiwa take care of unergonomic, monotonous tasks reliably and independently.

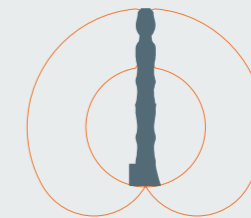
click for more



Industrial change is in full swing. IoT and Industrie 4.0 are replacing established structures with a cyber-physical production environment. The active agents in this process of change are intelligent machines with completely new capabilities: robots equipped with sensitivity and superior intelligence. Working side-by-side with humans, they operate more independently and with more sensitivity than ever before. They

are mobile, highly flexible and extremely versatile. At the same time, they provide you with seamless digital networking and autonomous adjustment to the rapidly changing production requirements. KUKA is making the vision of a production environment free from rigid structures into reality. As part of this, lightweight robots (LBR) play a key role as "intelligent industrial work assistants" (iiwa). In short: LBR iiwa.

Greater freedom.
The LBR iiwa does not require a safety fence.



Reach
800 – 820 mm

Payload
7 – 14 kg

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	IP 54	IP 54
Variants	CR	CR
Installation position	Floor, ceiling, wall	Floor, ceiling, wall

CR Suitable for clean rooms

_Cobots



LBR iisy. The cobot for a new era.



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Based on KUKA's next generation operating system, iiQKA.OS, the LBR iisy cobot experience is user-friendly, well-thought-out and straightforward for a wide range of industries with applications that require precise, fast and sensitive activities.

With its new, user-friendly software, the LBR iisy can be operated immediately by anyone, from automation experts to

Cobot newcomers. This makes the robot equally at home in complex automation environments as it is in unstructured environments where it interacts with workers. And the best part: LBR iisy is ready for use in a matter of minutes, from unpacking to productive work.

LBR iisy can also work without safety fences directly with human operators and can be handguided smoothly with

the commander input device on the end of the robot arm to help simplify setup and programming.

As the first robot running on iiQKA.OS, LBR iisy sets new standards for easy, straightforward and intuitive integration into production landscapes.



Flexible. Flexible robot system due to easy operation and programming, as well as low weight and many pre-configured elements



Suitable for industry. Fully industrial cobot through the use of proven technologies



Fast time to production. Ready to use from unboxing within a matter of minutes – and just as quickly re-used for new applications

Flexible, intuitive to use, fast to implement and safe in direct contact with human colleagues – the LBR iisy is an all-around cobot for automated production. It combines the know-how, precision and reliability of industrial automation with the intuitive flexibility of a smart device.

In order for robots to be more usable in more applications than ever before, automating tasks should be one thing above all else: simple. This is the mantra of KUKA's new cobot running on iiQKA.OS and supported by the iiQKA Ecosystem.

Intuitive. Simple programming with smooth handguiding

Collaborative. Enables direct, fence-free collaboration with humans

Sensitive. Detects collisions and measures process forces

Flexible. Simple installation of components, fast re-use in new applications



Reach
760 mm

Payload
3 kg

LBR iisy	LBR iisy 3 R760
Rated payload	3 kg
Number of axes	6
Reach to end of flange on axis 6	760 mm
Safety for HRC	PL d / Kat 3
Temperature range	+5°C to +45°C
Pose repeatability	±0.1 mm
Protection rating	IP 30
Weight	22.8 kg
Integrated energy supply system	Gbit Ethernet and 8 individual cables
Operator panel	KUKA smartPAD pro
Controller	KR C5 micro
Software	KUKA iiQKA.OS
Installation position	Floor, ceiling, wall, angle



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