KUKA

KUKA iiQKA

KUKA iiQKA.OS. Robots for the People.
A new era of KUKA robotics.

KUKA has written robotics history. As a trailblazer and pioneer trailblazer for new technologies and smart solutions. For example, KUKA has broken down the boundaries in safe cooperation between humans, and the boundaries of safe cooperation between humans and machines.

With iiQKA, KUKA is now taking it a decisive step further: iiQKA is an intuitive operational and digital ecosystem that makes automation easier for everyone – whether you are an expert in robotics or want to create your first application with a robot. The Cobot LBR iisy is the first KUKA robot to run on the new iiQKA.OS operating system.
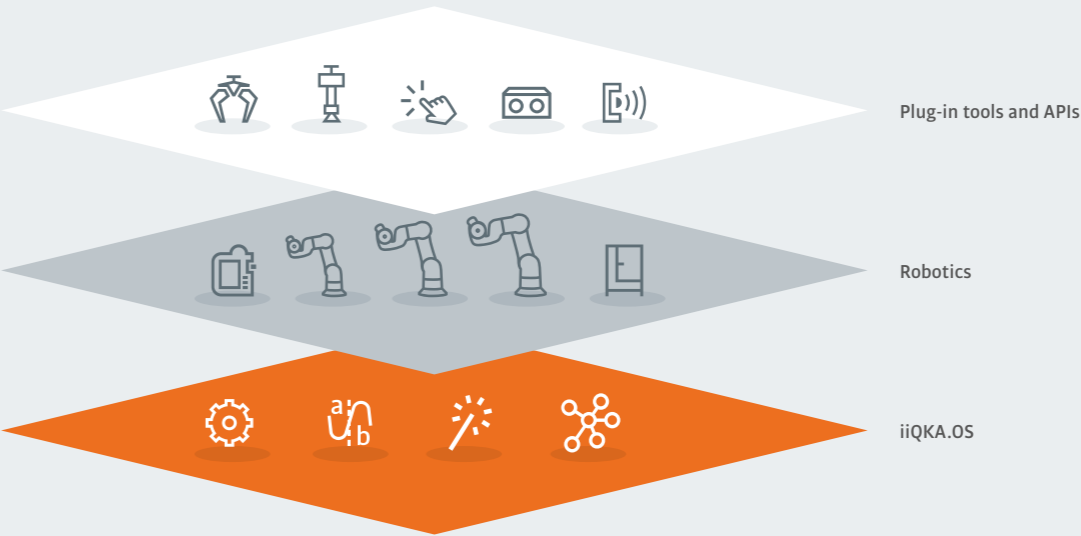
In just a few clicks to a fully-functional robot application. iiQKA creates a robotics world in which everything fits together at the touch of a button, works quickly and can be controlled intuitively. Get everything you need to easily install and operate your robot. Unlock the benefits of robotic automation, with or without prior knowledge of robot programming.

The keys to simple industrial automation for everyone. With the perfect interplay of the iiQKA.OS operating system and the open ecosystem Robotic Republic, the world of KUKA Automation is sustainably simplified. Closely interlocked, both building blocks ensure that the simple automation of production processes becomes possible for everyone. **Robotics for everyone – newcomers and experts alike.**

Configure your robot application in under 90 minutes. This is how robotics works for everyone: in the automation world of iiQKA, all available building blocks of a robot application fit together seamlessly. The iiQKA.OS operating system and the available hardware and software components from the Robotic Republic, KUKA's ecosystem, make the path to your own robotic automation intuitive and easy. From planning and purchasing to installation, commissioning, and efficient use. Ideal for companies planning to enter automation and for industry experts to solve their tasks faster with maximum performance and more efficiently.

Plug-in tools and APIs

Robotics

iiQKA.OS

The graphic user enterface of iiQKA.OS is self-explanatory and makes all functions of a robot application intuitively operable.

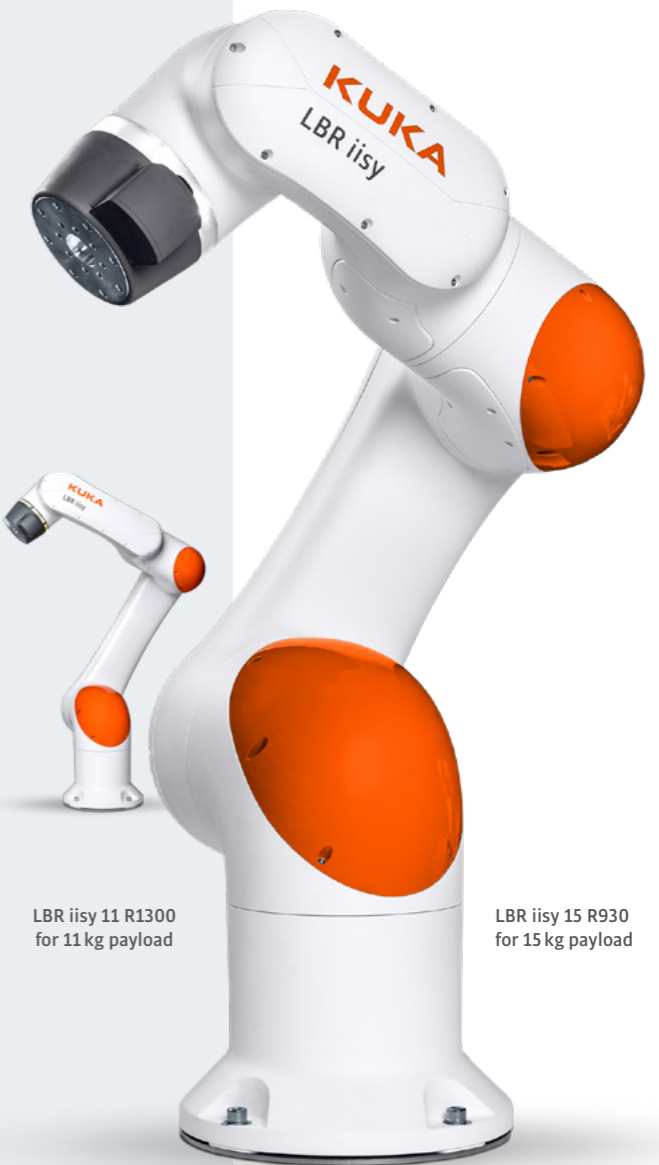## The iiQKA basic components.

LBR iisy 3 R760
for 3 kg payload

LBR iisy 6 R1300
for 6 kg payload

LBR iisy 8 R930
for 8 kg Traglast

LBR iisy 11 R1300
for 11 kg payload

LBR iisy 15 R930
for 15 kg payload

Automation as easy to use as your smartphone. Complex made simple. iiQKA was developed to make the creation of KUKA robot applications as easy as possible. The biggest advantage of iiQKA.OS is its ease of use, which is based on a powerful software architecture: easy to understand, reliable in performance and intuitive operation – throughout the entire customer journey.

The self-explanatory, graphic user interface of iiQKA.OS is easy to understand for newcomers and fast and efficient for experts. Step by step iiQKA.OS supports the user with integrated help functions.

Even beginners without expert knowledge can easily start up and program robots. Ideal for small and medium-sized companies to get started with automation. And for experts from industry to make their processes much easier.

Linux at its core

- Open-source
- Well-supported
- Large range of hardware compatibility
- IT and industry standard
- Flexible and robust
- Security as a design principle

Modular and containerized

- Architectural elements separated with clear communications interfaces
- Easy and fast development of new functionality
- Allows for major changes while performance of the entire system remains stable
- A key foundation for the future-proof platform

Open interfaces

- Application programming interfaces (APIs) allow standardized system interaction
- Foundation for offering extended value in an ecosystem
- Stable and consistent access to subsystem

Web-based user interface

- Responsive design that works in many formats
- Easy and fast development of custom user interfaces and elements
- Accelerates scaling and addition of new features and components

KR C5 micro. Small footprint with big-time performance. Smaller, more flexible, smarter. Developed as an open and flexible platform with no compromises, the KR C5 micro represents the next quantum leap in robot control. It offers maximum performance, connectivity and flexibility in the smallest of space. The KR C5 micro unites robot, PLC, motion and safety control in an ultra-compact housing with a volume of just 16 liters.

KUKA smartPAD pro. The intuitive iiQKA-Interface. The future is in your hands. Combined with the new iiQKA.OS operating system, the next-generation teach pendant delivers precise results and virtually unlimited application possibilities. Thanks to its intuitive handling, even complex tasks can be implemented quickly – without any programming knowledge.

The LBR iisy is flexible, intuitive operable and quickly ready for use. It works safely together with human colleagues – even hand in hand. This makes it an all-round cobot for automated production.

Intuitive. The programming is simple. The cobot can easily learn positions and movements by hand.

Collaborative. It can directly work with humans – without safety fences.

Sensitive. It detects collisions and measures process forces.

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

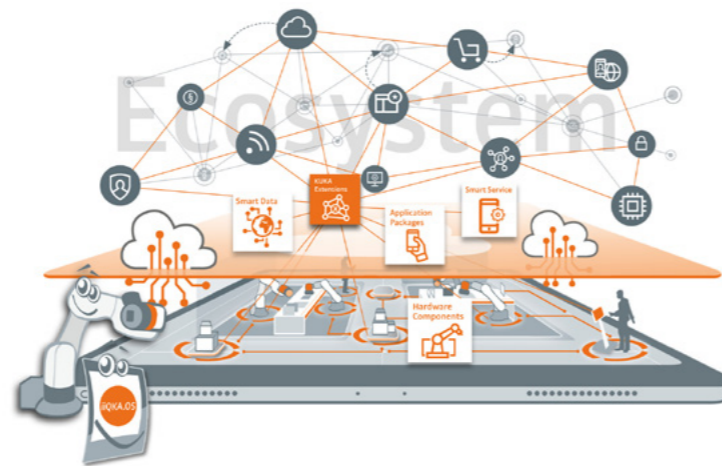# Robotic Republic.
The KUKA ecosystem.

The Robotic Republic is a multi-vendor ecosystem that offers all the components of high-performance robot applications on an open platform. KUKA's ecosystem is characterized by a rapidly growing range of hardware and software components. This allows you to put together individual automation packages that are safe, compatible, and ready for use.

An ecosystem that makes automation flexible and easy for everyone.

In the Robotic Republic, KUKA joins forces with third-party providers to jointly enable all users to automate manufacturing easily and independently. KUKA's ecosystem continuously offers new applications, advanced functionalities, and digital services that are easy to use and implement.

All components are compatible with each other, making it quick and easy to get ready for use. It has never been easier to create a KUKA robot application, operate it and adapt it to your own needs.

The Robotic Republic offers a smart way to efficiently automate your processes. Today and in the future.

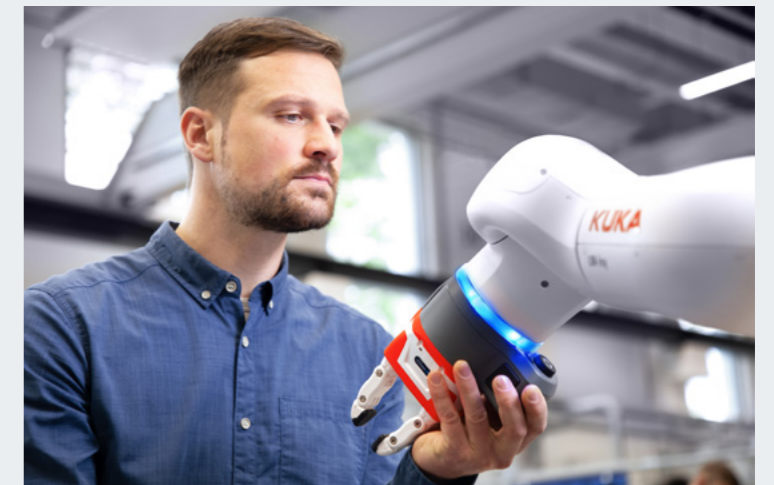**Certified components from the Robotic Republic, KUKA's ecosystem.**

Hardware components such as grippers for handling systems and more. Certified, fully integrated tools make the application simple and flexible, according to your requirements. In the automation world of iiQKA, all available hardware and software components of an application fit together seamlessly. iiQKA makes automation with KUKA robots incredibly easy.

Safety sensors and vision system. Be it the vision system or the safety sensor technology, you can expand the automation system with a variety of functions depending on your needs. iiQKA is a paradigm shift in automation. Even demanding handling, testing and production processes can be effortlessly automated by anyone. With iiQKA, companies can automate production, handling or testing processes in the simplest way possible.

KUKA and third-party software solutions. iiQKA.OS is a powerful and scalable robot operating system with open APIs (Application Programming Interfaces). Ordered software components or solutions are pre-installed by KUKA at the factory and are fully functional upon delivery.

Become part of Robotic Republic as an **iiQKA Creator,** the ecosystem of KUKA.

Listen, learn and cooperate with partners worldwide. That is the successful model behind iiQKA. With the goal of dramatically lowering the barriers for newcomers to robot-based automation – and enabling experts to achieve automation goals faster and more efficiently.

Your benefits as an iiQKA Creatorr:
• Reach new target groups
• Let KUKA do your selling for you
• Work with KUKA, a trusted brand
• Benefit from know-how exchange

In the Robotic Republic, KUKA joins forces with third-party suppliers to provide users with simple, useful automation tools. Become part of this KUKA ecosystem now. Become an iiQKA Creator.
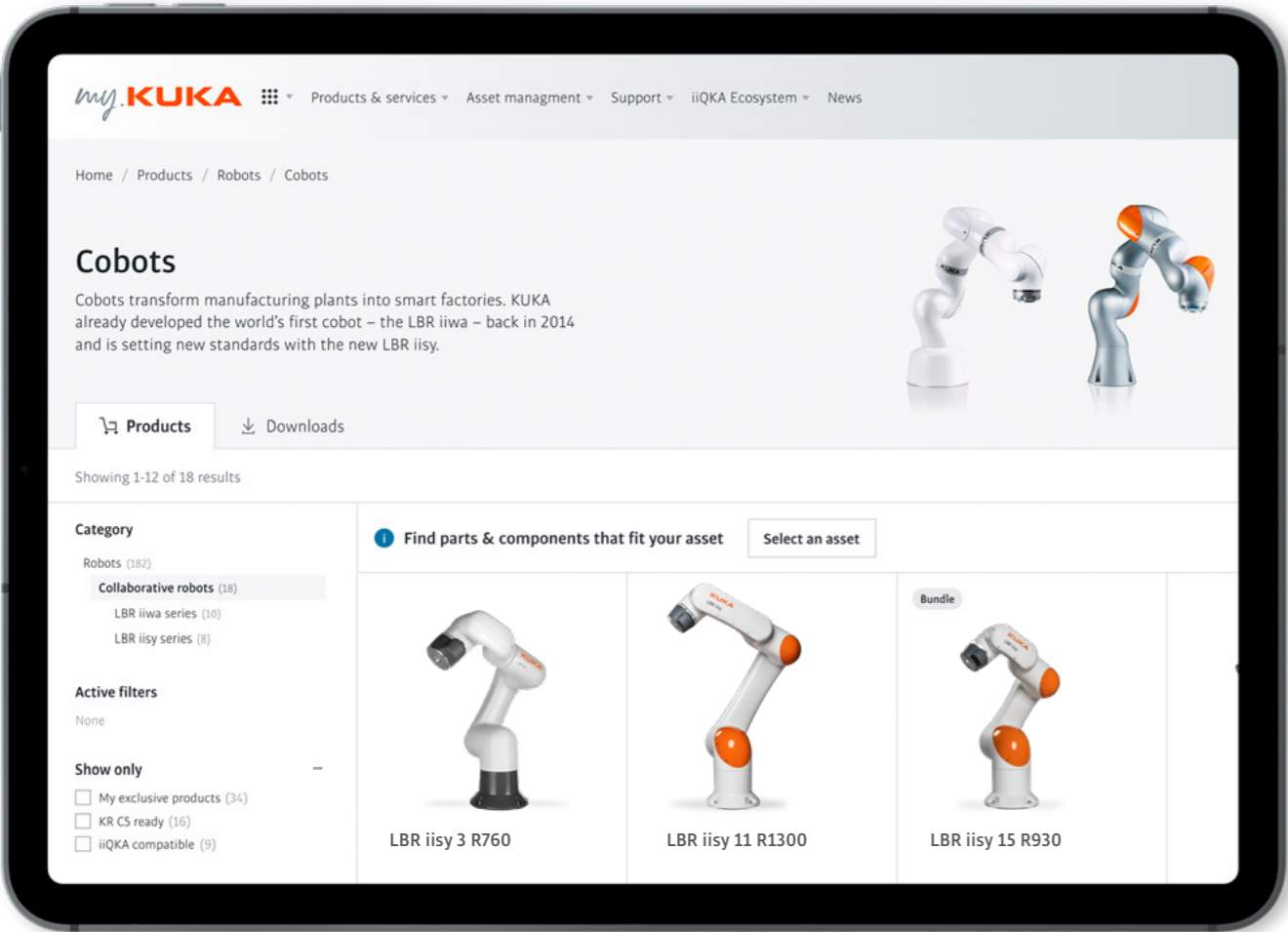
Find out now about the iiQKA Creator Program for manufacturers and solution providers.

Learn more at: **kuka.com/iiQKA-Creator**

Quickly configured online. Just a few clicks to the complete application in the my.KUKA customer portal.

With iiQKA, you can configure and order your individual robot application with just a few clicks in the my.KUKA customer portal and selected partner sites. On site, the individually equipped applications with all ordered extensions are unpacked, set up and ready for use within a few minutes.

Easy registration in the my.KUKA customer portal. Here you can find all iiQKA compatible products, view your order history and check availability or delivery times of components.

my.KUKA.com

Developed for practice. Together with customers and partners.

iiQKA's functionalities and usability are continuously being developed. Fast, regular feature updates are designed and implemented in ongoing dialogue with users and partners. KUKA has implemented the KUKA User Forum, among other things, to closely involve users in the development process. Users can participate in discussions there, post suggestions, and receive direct support from KUKA experts and other users in the implementation of their robotics applications.

Equipped with cameras, an LBR iisy cobot in conjunction with the iiQKA.OS operating system, checks quality in the plastics industry.

The handling of flexible, easily deformable, flexible textiles and cut parts, is possible with an LBR iisy robot.

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