

KUKA



Flexible automation of production processes
with ready2_use





_industry-specific

_ready to use

_field-proven

We are ready. How about you? Contact us to start the journey.

Powerful automation begins with “ready2_”.

ready2_use offers the sum of KUKA’s deep experience and knowhow from across the industrial landscape. Every ready2_use package can be easily integrated into shop floors with the assurance of that knowhow behind them.

Thanks to its inherent versatility, they adapt easily to changing demands and future Smart Factory concepts.

The benefits for our Customers

Reduce complexity.

Dedicated to customer needs.

Faster time to market.

Global impact.

The benefits for our System Partners

Help integrators scale with minimum risk.

Faster time to market.

Faster on site, ramp up and cash flow.

Entering new markets.

ready2_use packages:

ready2_educate_KORE Cart

Supports the increased education programs incorporating robotic based training into existing programs

ready2_pilot

Package for the easy control of a robot with no training requirements

ready2_fasten_micro

Complete automation package for the fastening of micro screws

ready2_grip

Preconfigured gripper package based on the KR AGILUS

ready2_spot

Preconfigured spot welding automation package

ready2_powerlink

Package for integrating KUKA robots into third-party controller systems

ready2_spray

Preconfigured automation package for painting tasks

ready2_arc

Preconfigured arc welding automation for the metal industry

Further ready2_use packages are in development.

ready2_educate_KORE Cart

The KUKA Robotics KORE program offers high schools, technical centers, community colleges and universities the opportunity to incorporate certificate based robot education on KUKA products into their STEM, advanced manufacturing and mechatronics programs. With the KUKA KORE packages, students will learn basic robot programming and operation skills on exercise hardware this is similar to what is used in the KUKA College. Through the KORE program, students will learn fundamental robot basics on the same robots and control technology that is utilized in a variety of industries.

Adding robotic. Learning to career technical education programs.

Project-centered activities. Prepare students working with real world industrial robots presenting Manufacturer Certified Training.

Combine. Innovative robotic curriculum certification with career cluster credential.

Support community. Workforce retraining initiatives.

Certificate. To KUKA end user customers and system integrators.



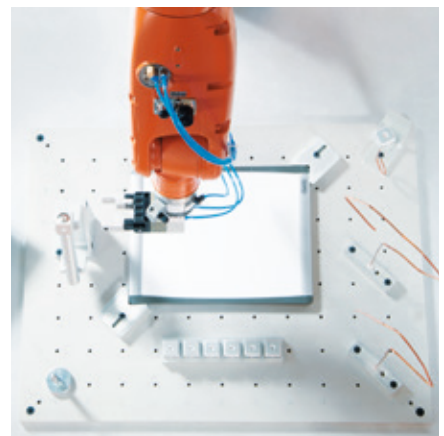
ready2_educate_KORE Cart Package at a glance:

- 12 module KORE Program Curriculum including course labs, tests and student manuals
- Portable KORE Cart constructed of welded steel frame
- KR 6 R700 sixx robot with KR C4 compact controller and KUKA smartPAD teach pendant
- Portable KORE Cart
- Retractable workspace
- Retractable stabilization outriggers
- Quiet air compressor included
- 110 V transformer
- Rugged industrial lockable casters
- Safety interlocked access doors
- Schunk gripper module with overload protection device
- Size: collapsed: 31.75" wide x 54" long, expanded: 81.5" wide x 54" long



ready2_educate_KORE Cart Curriculum Package at a glance:

- Course curriculum manuals
- 15-seat server license of KUKA.SimPro & KUKA.OfficeLite simulation & programming software
- KORE Reference Exercise Hardware Mounting Sub Plate
- KORE Wave Plate with replaceable surface
- Aluminum handling blocks & receiver tray
- Tool Center Point (TCP) Teaching Tool
- Aluminum dry erase pointer / marker tool and stand
- Dry erase drawing board
- Wire ring tracing loop tool and stand
- Wire trace teaching tools and stand
- Instructor presentation



ready2_pilot

Unique, wireless robot control package. Today's Automotive, Consumer Goods and Plastics markets show a great demand for easy-to-use robots. Developed over years and based on the experience in different markets and industries, KUKA provides a very user-friendly hand-guiding device that offers the ability to teach a robot what to do rather than program it. And beyond this, by being the world's first wireless solution of its kind, ready2_pilot offers unsurpassed connectivity and flexibility.

Easy to use. Simple control, no training requirements.

Wireless tool. Unlimited flexibility and high versatility.

Intuitive robot piloting. Like using a 6D mouse with a computer.

No reorientation. Mouse can be mounted right on the robot.

Usable with any kind of standard robot. Disregarding the payload, no additional Safety needed. Disconnect the 6D mouse before production.



ready2_pilot at a glance:

- Available in two variants
 - ready2_pilot smartPAD
 - ready2_pilot SW Option

ready2_fasten_micro

Maximum performance in minimal space. Electronic products are getting smaller and smaller – a very short delivery time and quick ROI are key for the players in this market. KUKA provides an easily integratable ready2_fasten_micro package for manufacturers of small parts and products. The package offers a unique and flexible application to easily tighten micro screws (M0.8 – M2) with a 6-axis robot ready for Industrie 4.0. Unlike manual workers, gantry or SCARA robots, this ready2_use package combines higher flexibility, stable quality and high accuracy with an attractive ROI.

Higher flexibility. Multi-purpose 6-axis kinematics, ceiling mount option.

Standardization. Robot can be used for other process steps in the production line.

One-stop-shopping. For the entire screw fastening solution.

Industrie 4.0 ready. With app for KUKA Connect.

Ease of use. By application software on powerful KUKA controller system.

Best in Class Robot. KR 3 AGILUS tailor-made for the electronics industry.



ready2_fasten_micro at a glance:

- KR 3 AGILUS
- KR C4 compact controller
- Application controller incl. screw driving controller
- Pneumatic unit
- Connection cables
- KUKA smartPAD with application software screw fastening
- Screw spindle with vacuum ejector stationary torque sensor (optional)

ready2_grip

Unique preconfigured and reliable application package.

The market offers no compact and pre-configured and standardized solution, especially for small and midsize manufacturers, although there is the need for it. A lack of on-site support and service are often the main hurdle.

Every handling automation company is making its own gripper solution since there is, or now we have to say was, no standard solution available on the market. Supporting and servicing these customized solutions worldwide has always been a headache.

With ready2_grip KUKA now provides a reliable, preconfigured, standardized and tested solution that convinces with its simplicity and ease of use.

Flexibility. Making it easy to scale up and scale down production.

Global support. Through worldwide KUKA service experts.

Quality-tested. Reliable application, optimized for practical use.

Fully integrated. Gripper seamlessly integrated in KUKA HMI.



ready2_grip at a glance:

- KR AGILUS robot completely equipped with a state of the art gripper
- Mounted, wired and fitted with a dress package; configured in KUKA.WorkVisual
- Endurance-tested energy supply

ready2_spot

Preconfigured high quality spot welding performance. In target markets (such as the automotive market), one of the most relevant applications is the spot welding of high strength steel and aluminum. With its ready2_spot application, KUKA is the only robot supplier offering an economical automation solution with KUKA.ServoGun SW for high quality results.

Ease of use. Commissioning wizard for faster start-up.

Automatic force calibration. Speeds up the start-up process and makes this task easy on the user.

Maximum force accuracy. For high process quality.

Scalable package. Varying number and types of components incl. software.

Industrie 4.0 application elements. Production efficiency and process / interlocking analysis (in development).

Local support. KUKA subsidiaries and global process equipment suppliers (such as Bosch).

Package customization. Through the TechCenter according to customers' specifications.



ready2_spot at a glance:

- Robot
- KUKA.ServoGun SW
- Dress package
- Weld timer
- Media installation plate
- Commissioning wizard
- Automatic gun force calibration with KUKA sensor
- Process cabinet, 7th axis control in robot control
- Optional: tip dresser, TCP measuring device, linear track KL 4000

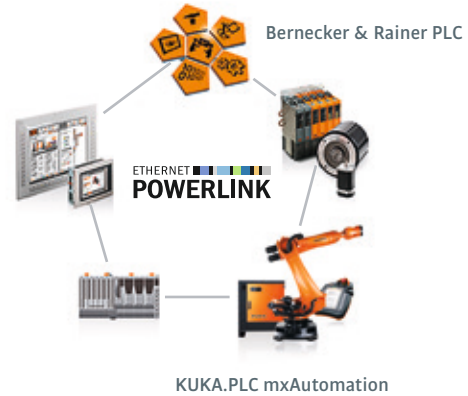
ready2_powerlink

Evolutionary robot control package. Based on the mxAutomation portfolio, KUKA has a vast experience in integrating KUKA robots and controllers into third-party controller systems. The ready2_powerlink package is a further evolution, offering the use of KUKA robots with PLC via POWERLINK standard – meeting Consumer Goods market demand for an interface to the EtherNet POWERLINK real-time standard. (Bernecker & Rainer, including mxAutomation).

Preconfiguration. Minimum installation and integration efforts.

Programming standard. KUKA.PLC mxAutomation.

Easy robot control. Use Bernecker & Rainer PLC via POWERLINK.



ready2_powerlink at a glance:

- KUKA.PLC mxAutomation 2.1
- POWERLINK
- EtherCAT-POWERLINK Gateway

ready2_spray

Best-in-breed spray application by KUKA and Dürr. A worldwide premiere in its payload and reach class. This best-in-breed spray application is a unique combination of the best-in-class robot manufacturer KUKA and the expertise of Dürr. KUKA, one of the leading robotics companies, joins strengths with one of the global painting application leaders. The collaboration of KUKA and Dürr reflects the demand for high quality and affordable packages available on a global scale.

Ease of use. Fast installation and integration minimize time to production.

Global support. Powerful assistance for all components involved.

Best price-to-performance ratio. Designed for sustainably cost-efficient production.

One-stop shopping. For high technology from two market leaders.



ready2_spray at a glance:

- KR AGILUS KR 10 R1100 EX 2G
- 1K/2K paint application from Dürr
- KUKA controller KR C4 combined with the Dürr EcoAUC control unit

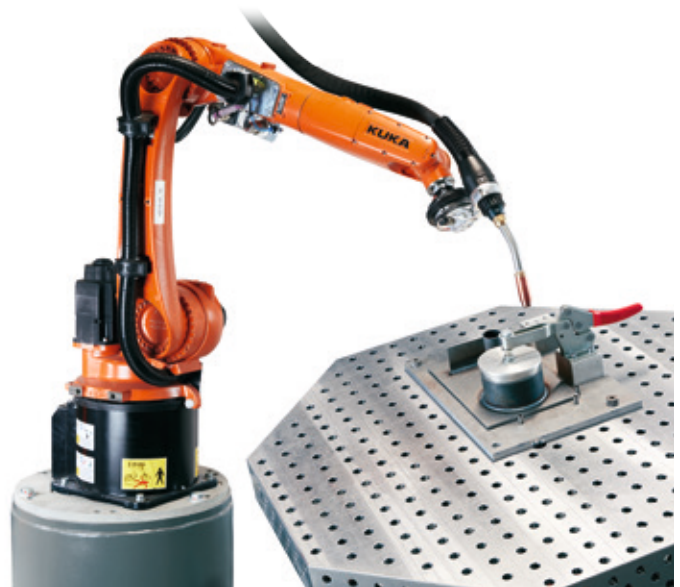
ready2_arc

Flexible arc welding packages, suitable for all major power supplies. With ready2_arc, KUKA offers fully dressed and tested ready2_arc weld packages by leveraging its long experience in welding and automated welding packages. Furthermore, the in-depth cooperation between KUKA and leading power source suppliers meets the increasing complexity and customer demands in a wide variety of industries (such as Tier 1, Automotive and General Industry).

Ease of use. Tested setup to enable efficient welding machine performance.

Individual packages. Matching specific requirements of different welding machine suppliers in local markets.

One-stop-shopping. Reduced complexity, enabling fast integration.



ready2_arc at a glance:

- Welding machine
- Wire feeder
- Torch
- Cables and all necessary adapters
- Cleaning station (optional)
- And further options available for the entire KR CYBERTECH family as well as KR 30 L16 and KR AGILUS



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