

# KUKA



The advantage for your business  
\_Application Consulting & Customizing





# Achieving more together

## KUKA Application Consulting & Customizing

**Special technologies. Specific industry knowledge. Manufacturer competence.** With KUKA Application Consulting & Customizing, you are in position to add valuable competencies to your company's portfolio. Your immediate added value: costs that can be planned based on a flexible offering of service packages.

With these needs-based consulting and customizing services, KUKA experts can be seamlessly inserted into your team and your project. From conception through to implementation. With KUKA Application Consulting & Customizing, you can immediately gain the advantage of specific expertise and specialist knowledge. At the highest level in every project phase. Whether it is to meet specific requirements in a project, open up new markets, or drive innovation.

+ Software development

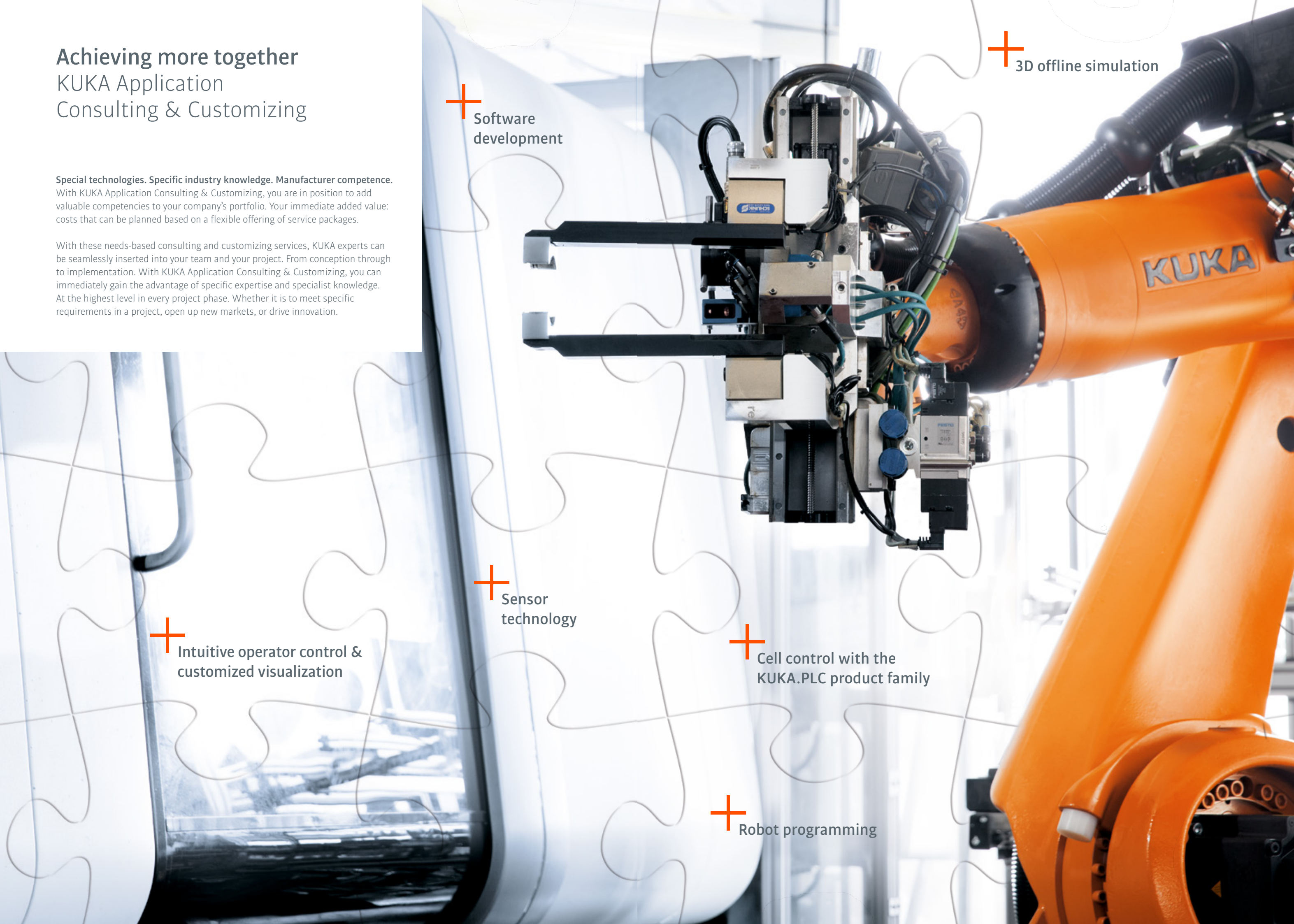
+ 3D offline simulation

+ Intuitive operator control & customized visualization

+ Sensor technology

+ Cell control with the KUKA.PLC product family

+ Robot programming





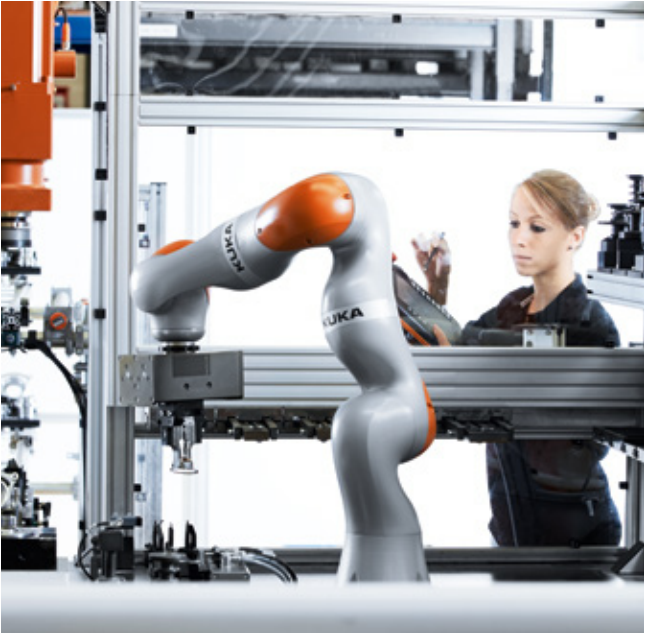
# KUKA Application Consulting & Customizing

Perfect modules for optimal automation solutions

KUKA Application Consulting & Customizing is on your side with an optimal automation solution – with an extensive service portfolio that you can access at any time. KUKA takes over complete tasks on requests and supports you through service packages that can be tailored to your individual needs. Open and direct lines of communication also ensure rapid processing – from initial contact to project completion. KUKA supports you in all phases of your project.

## Top performance – greatest expertise

- + Comprehensive consulting services for the selection of components and software packages
- + Performance of feasibility studies including result documentation
- + Assistance with the implementation of test devices and pilot systems
- + Start-up, programming, and individual software development
- + User training by qualified application engineers
- + Cycle time and process optimization
- + Assistance with the modernization of existing systems



## 3D offline simulation

**See what will happen later – in advance.** The sooner you have a visual concept model with meaningful data, the greater your security planning is. This requires precise data on the type, size, reach, and installation position of the robot – supplemented by reliable statements concerning cycle times. This enables you to perform reachability analyses during the planning phase, eliminate the possibility of collisions, and carry out practical design planning – thus allowing for fast commissioning.

With 3D configuration and virtual simulation of the robot cell, KUKA offers professional services for planning and optimizing your system concept. Whether a new system or a system conversion, our spectrum of products and services ranges from accessibility and collision checks through, verification of the cell layout, and the offline creation of robot programs.

### The benefits to you

- + Convincing visualization of the system design
- + Assurance when selecting the suitable type of robot
- + Reliable statements concerning cycle times during the planning phase
- + Reduction in commissioning times

## Robot programming

**So that your robot does what it should.** Are you looking to use robot programs with efficient and scalable programming standards in the future? With intuitively and logically structured libraries as well as optimized motion control, we increase the profitability of your applications.

With KUKA expert programming, you can realize both complex individual tasks as well as the complete programming of entire systems. Furthermore, with an in-depth knowledge in developing customer specific programming standards, our programmers are on hand to boost the profitability of your projects for the long run. Our aim to help you achieve optimal cycle times and maximum efficiency.

### The benefits to you

- + Plausible and easy-to-understand programming
- + Acquisition of skills for your employees and customers
- + Platform for efficient application development
- + Optimal utilization of robot performance
- + 100% expertise – direct from the manufacturer

## Software development

**Beyond the standard limits.** Is the scope of standard software insufficient for the implementation of your idea? Do you need expanded functions in KUKA software and customized software applications that can be seamlessly integrated into the robot controller?

Our application engineers adapt KUKA standard software to specific industry requirements and tailor the development of new software functions to your needs. With the KUKA programming languages KRL, Java, as well as the KUKA.UserTech software option – or as a specific in-house development in the form of add-on software modules for the customized operator control and configuration of your robot. This provides you with a unique position relative to the competition.

### The benefits to you

- + Functional expansion of the KUKA robot controller according to your wishes
- + High user-friendliness of your system
- + Individualization of your KUKA robot

## Cell control with the KUKA.PLC product family

**All in one and one for all.** In modern systems, various control systems and peripheral devices are used. As a result, operation and management requires the mastery of a number of different programming systems. How nice would it be if your system could stand out from the competition through a uniform control concept?

With the KUKA.PLC product family, our experts expand the KR C robot controller with command ranges for PLC and drive technology. The KR C thus becomes a common automation center for robot and system technology. Furthermore, additional software options enable robot programming and operator control via a PLC or machine tool.

### The benefits to you

- + Cost savings and simplified maintenance through reduced hardware
- + Networking of all system components with uniform configuration and programming standards
- + Easy implementation of your system concept
- + Central system diagnosis
- + Implementation of unusual drive concepts

## Intuitive operator control & customized visualization

**Recognition and intuition are everything.** Is a uniform appearance important to you? Would you like to see your own system visualization as the standard one on the KUKA robot or simply adapt the KUKA user interface to your needs? Shouldn't it also be possible to operate your KUKA robot intuitively?

Our specialists adapt the KUKA software to your standards – according to your individual operator control and visualization philosophy. Your special requests can also be implemented with standard software solutions. The KUKA.UserTech and KUKA.HMI software options are used for this. We can integrate plug-ins you develop into the KUKA controller on the basis of the open KUKA system architecture.

### The benefits to you

- + Corporate identity – even in production
- + Protection against undesired intervention through user-defined access control
- + Reduction of time for user familiarization
- + Cost savings through the use of existing operator panels

## Sensor technology

**Teach your robot to see and feel.** Do you need your KUKA robot to flexibly react towards changing process conditions? Do you want to tackle new tasks in the field of sensitive automation and develop highly flexible automation concepts based on innovative technologies that are a step ahead of the competition?

With KUKA.VisionTech as a fully integrated image processing system, our experts for vision technologies solve your 2D or 3D position detection and inspection tasks. Our expertise to integrate force-torque sensors with the KUKA.ForceTorqueControl software option, allowing your KUKA robot to react sensitively to external process forces. Our team provides target-oriented and customized support in the implementation of your sensor-based application.

### The benefits to you

- + New fields of application through sensitive robots
- + Expansion of your application spectrum
- + Improved process reliability
- + Improved product quality

KUKA Application Consulting & Customizing –  
as unique as your company.  
We're at your service!



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