We talk YOUR language.

Your language.

Our solution.
KUKA TALKS YOUR LANGUAGE. For compact and cost-effective configuration of the control system, the user can remain entirely in the KUKA world of the multi-functional KR C4 and its development environment KUKA.WorkVisual. Sophisticated, dovetailed control options such as RobotControl, SoftPLC, MotionControl, etc. are available here – together with the relevant programming language. With the new KUKA.CNC control option, on the other hand, robots can be programmed in G-code either directly or indirectly via upstream CAD/CAM process chains. This turns the KUKA robot into a machine tool.

Besides its core language KUKA.KRL, KUKA currently supports the programming systems of:

- KUKA.CNC
- KUKA.PLC ProConOS
- SIMULINK
- SIMATIC S7
- Rockwell Control Systems

Robot tasks with KUKA Robot Language (KRL)

Robot as a machine tool – KUKA.CNC

Communication talents: function and technology packages from KUKA Roboter

KUKA.KRL The service-proven programming language of the KUKA robot controller. It is also used to realize all control expansions, such as cooperating robots, the integration of external axes and the programming of all KUKA technology packages.

KUKA.CNC is a complete software-based CNC implementation for execution of machine tool code (G-code) directly on the KR C4 robot controller. This turns the robot, with its accuracy and stiffness, into a machining center for path-supported processes.

KUKA.PLC ProConOS is the Soft PLC of the KUKA KR C4 controller. ProConOS programs have full access to the entire I/O system. Function blocks enable variables such as axis positions and velocity to be read and processed.

KUKA.PLC mxA. The KUKA mxAutomation interface KUKA.PLC mxA allows the KUKA robot to be directly commanded by function blocks in external controllers (e.g. Siemens®, Rockwell®), but also by the internal Soft PLC. The user thus requires no knowledge of robot programming with the KUKA robot language KUKA.KRL.