KUKA.CNC for maximum robot performance in machining processes.

[+] FULLY INTEGRATED CNC CONTROLLER
[+] EXECUTION OF CNC PROGRAMS COMPLIANT WITH DIN 66025 (G-CODE)
[+] ROBOT AS A FLEXIBLE MACHINING CENTER
[+] UTMOST ACCURACY DUE TO CNC PATH PLANNING
[+] OPERATOR CONTROL OF THE ROBOT FROM A TYPICAL CNC ENVIRONMENT
ROBOTS AS MACHINE TOOLS – FLEXIBILITY WITH 6 AXES. The KUKA.CNC control option enables KUKA robots to be programmed and operated directly by means of G-code. KUKA.CNC can process even the most complex programs from CAD/CAM systems. This hugely simplifies the integration of robots into an existing CNC environment.

Supported by the increasing number of robot-specific functions in upstream CAD/CAM systems, the robot can play a direct role in the machining process. The robot and the machine tool speak the same language. This combination of robot and machining center reduces the load on the machine tools and ensures optimal capacity utilization.

Features and advantages

FULLY INTEGRATED CNC CONTROLLER. The direct integration of CAD/CAM systems and the direct processing of G-code with defined CNC functions guarantee a uniform process chain.

EXECUTION OF CNC PROGRAMS COMPLIANT WITH DIN 66025 (G-CODE). KUKA.CNC can be used to execute G-code from upstream, DIN 66025-compliant CAD/CAM programs directly with the robot controller.

ROBOT AS A FLEXIBLE MACHINING CENTER. The direct execution of all standard G and M commands for tool handling and high-speed cutting turns the robot into a highly flexible machining center – especially for large, complex components that have to be machined on all sides.

UTMOST ACCURACY DUE TO CNC PATH PLANNING. Supplemented with various tool compensation functions, the CNC path planning ensures high surface precision.

OPERATOR CONTROL OF THE ROBOT FROM A TYPICAL CNC ENVIRONMENT. Upstream CAD/CAM software enables the robot to be used directly for programming and machining workpieces. And this can be done in the familiar language of your machine tool.