KUKA

KR C5 micro
Small footprint with big-time performance.

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Maximum performance, connectivity and flexibility in the smallest of spaces. This is the new KR C5 micro robot controller for small robots. The KR C5 controller generation from KUKA is programmed for the future. For instance, the KR C5 micro unites robot, PLC, motion and safety control in an ultra-compact housing with a volume of just 16 liters.

Ready for digital
- Seamless integration into OT, IT and cloud environments
- Ethernet and digital IO interfaces, supports various cloud systems

Compatibility
- Simple integration into existing infrastructures
- Seamless integration into the KUKA robot portfolio
- Easy and intuitive to operate via KUKA smartPAD (KSS) and KUKA smartPAD pro (iiQKA.OS)

Low TCO
- Reduced energy consumption
- Minimized complexity
- Increased reliability

Ready for use worldwide
- Meets globally relevant ISO standards
- 25 languages available, including the most important Asian languages

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. The controller can not only be seamlessly integrated into existing automation landscapes, for example, but can also easily take on KR C4 applications as a "functional twin".

The wide range of technology products enables the quick and easy implementation of robot applications. The controller meets current field bus standards for cell and line integration via software options. At the same time, the KR C5 micro is equipped with the necessary hardware resources and flexible I/O ports in order to adapt quickly to future tasks and standards as well.

Features	Supplied accessories	Supported robot series
Drive axes (6 axes)	KUKA smartPAD	KR CYBERTECH nano
Embedded computer with safety controller	External battery box	KR AGILUS
Ethernet interfaces	Plug pack	KR DELTA
Digital I/O interfaces	Mounting brackets	KR SCARA
Discrete safety signals	Power supply lead	LBR iisy
Active cooling		

Technische Daten

Infeed	200 V – 240 V AC, 1-phase 50 Hz – 60 Hz, 2-phase
Axes	6 axes / 3×12 A + 3×5 A
CPU architecture	Intel X86 (main CPU) + ARM (for safety functions)
Internal memory	60 GB (SSD M.2)
Dimensions (L × W × H)	392×300×134 mm (without attachments and without bases)
Weight	9.8 kg
Protection rating	IP 20
Wide range of line integration options	Digital I/O: 16 inputs / 16 outputs (pnp or npn) EtherCAT (KUKA Extension Bus) PROFINET + PROFIsafe EthernetIP +CIP Safety EtherCAT slave + FSoE (via external gateway)
Ambient temperature during operation	0 °C to +45 °C
Safety	ISO 10218-1 Robots and robotic devices, ISO 13849-1 Cat. 3 / Performance Level d
Certification	UL / CSA

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