Maximum performance, connectivity and flexibility in the smallest of spaces: that is the new KR C5 micro 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.
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 current KR C4 applications as a “functional twin”. Furthermore, applications can be implemented quickly because the supported KUKA software products are functionally identical to the KR C4 controller series. Even today, the KR C5 micro already supports a large number of current field bus standards for cell and line integration on a PROFINET and EtherCAT basis. 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.

## KR C5 micro
_The heartbeat of future production_

### Technical data

**Power supply**
- AC 200 V–240 V
- 50 Hz–60 Hz
- 1-phase
- 2-phase
- 6 axes / 3 x 12 A + 3 x 5 A

**Axes**
- 2 axes
- 1 x 20 A

**CPU architecture**
- Intel X86 (Main CPU)

**Storage internal**
- 60 Gbyte (SSD M.2)

**Dimensions (w x h x d)**
- 300 mm x 134 mm x 392 mm
- (without attachments and without bases)

**Weight**
- 9.8 kg

**Protection class**
- IP 20

**Multiple line integration options**
- Digital IO: 16-In / 16-Out (pnp or npn)
- EtherCAT (KUKA Extension Bus)
- PROFINET + PROFIsafe
- EthernetIP + CIP Safety

**Ambient temperature during operation**
- 0 °C–45 °C

**Safety**
- ISO 10218-1
- ISO 13849-1

**Certification**
- Industrial robots
- Cat. 3 / Performance Level d
- UL / CSA

### Interfaces / front

**Ethernet & EtherCAT ports**
- KSI / KEI / 2 x KSB / 3 x KLI / KONI

**24 V power in (external supply for IOs)**

**24 V power out (from external supply)**

**16 digital inputs (npn / pnp)**

**16 digital outputs (npn / pnp)**

**3 fast measurement inputs**

**1 UL lamp**

**Data & 24 V to robot**

**4 safe inputs: external E-STOP operator safety, operator safety ack., 1 reserved**

**1 safe output: local E-STOP**

**Axis motors and brakes**

**2 USB ports**

**SSD slot**

**Display port**

**SD card future use**

### Features

- Drive units (6 axes)
- Embedded computer with safety controller
- Ethernet interfaces
- Digital IO interfaces
- Discrete safety signals
- Active cooling

### Including accessories

- KUKA smartPAD
- External battery box
- Plug package
- Mounting brackets
- Power cable

### Optional accessories

- SSD card 60 GB
- Mounting frame 19”
- KUKA smartPAD cable reel
- KUKA:EtherNetSwitch dual port
- KUKA:EtherNetSwitch quad port

### Supported robot series

- KR AGILUS
- KR DELTA
- KR SCARA

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**New System Software KSS 8.7 – fully compatible with KSS 8.6**

The new System Software KSS 8.7 is functionally identical to KSS 8.6 and features identical software applications and technologies.

**Intuitive KUKA smartPAD control**

The KR C5 micro can be easily and intuitively operated using the pluggable KUKA smartPAD.

**Ready for use worldwide**

The KR C5 micro meets all globally relevant ISO standards and speaks 25 languages – including the major Asian ones.

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www.kuka.com/contacts

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