

# KUKA



**KR C5.**

The heartbeat of intelligent automation.



# KR C5 controller.

## The heartbeat of intelligent automation.

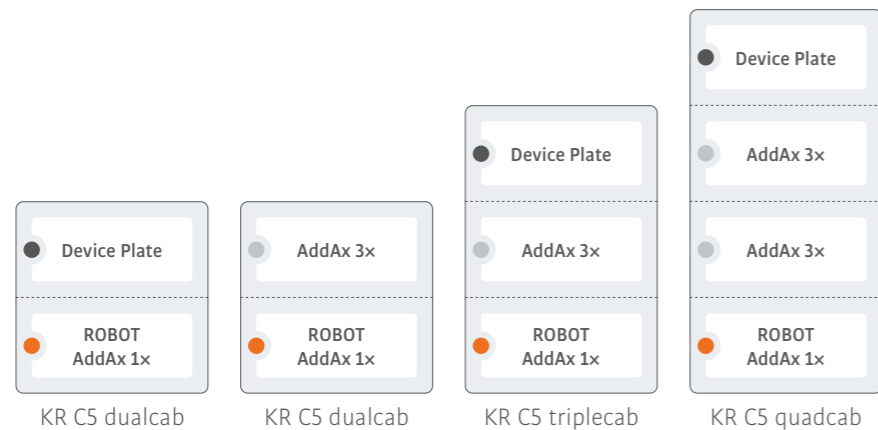
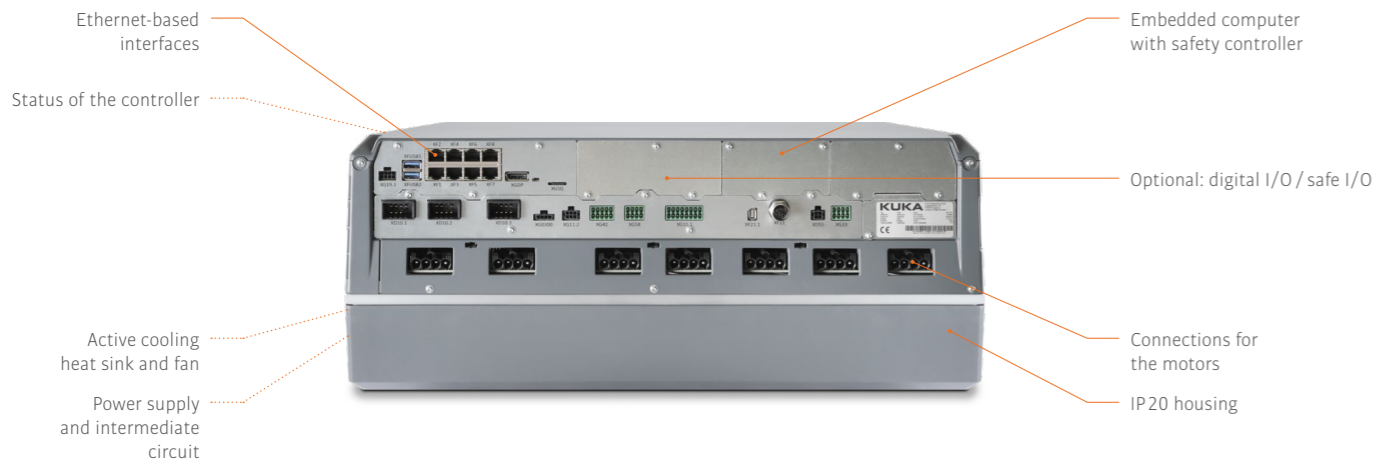
**The production of the future is smart and operates on a whole new level with the KR C5.** KUKA's latest platform for robot controllers enables space-saving solutions, delivers supremely efficient performance and conserves resources. It can thus also be seamlessly integrated into heterogeneous automation landscapes, enabling a wide variety of robot applications.

The reduced hardware and lower energy requirements offer more application options with maximum cost-effectiveness. And thanks to the interconnectivity of the open platform design, mere data is transformed into valuable information.

**Compatibility.** The current system software is functionally compatible with the KR C4 and has identical software applications and software technologies.

**Low training requirements.** The easy integration into control cabinets and the availability of service-proven system software enable a fast start-up.

**Many control options.** Diverse options and hardware expansion possibilities, e.g. various IO and communication options for a wide variety of system concepts.



The cabinets of the KR C5 are available in different sizes and can be equipped in a modular fashion.

### Interfaces for input / output signals

- 16 input / output signals 24 V
- Safe signals for cell safety
- Safe signals for SafeOperation technologies
- PROFINet / PROFIsafe
- EthernetIP / CIP Safety
- Expansion module EtherCAT Slave / FSoE
- Expansion module PROFIBus Master / Slave
- Expansion module DeviceNet Master / Slave
- Integrated Ethernet switch

### Supplied accessories

- KUKA smartPAD
- Plug pack

### Controller options

- Reserved installation space and device plate
- US1 / US2 peripheral power supply
- Various IO and communication options
- Front panel interfaces
- Various cabinet locks
- Set of rollers
- Cable holder
- Fork slots
- Exchangeable SSD mass storage medium
- KUKA smartPAD cable reel
- Transformer

### Supported robot series

- KR CYBERTECH nano
- KR CYBERTECH nano ARC
- KR CYBERTECH
- KR CYBERTECH ARC
- KR IONTEC
- KR QUANTEC
- KR FORTEC
- KR 1000 titan
- Palletizing robots

### Technical data

Infeed	380 – 480 V AC 3-phase (without transformer), 380 – 575 V AC 3-phase (with transformer)
Axes	6 robot axes, up to 6 additional external axes
CPU ARCHitecture	Intel X86 (main CPU) + ARM (for safety functions)
Internal memory	60 GB (SSD M.2)
Dimensions (H x W x D)	dualcab 720 x 720 x 600 mm triplecab 960 x 720 x 600 mm quadcab 1,210 x 720 x 600 mm Controller 207 x 392 x 500 mm
Weight	dualcab approx. 83 kg triplecab approx. 107 kg quadcab approx. 131 kg Controller approx. 22 kg
Protection rating	IP54 (for the cabinet)
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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