KUKA

KR C5

The heartbeat of intelligent automation.

KR C5 controller. The heartbeat of intelligent automation.

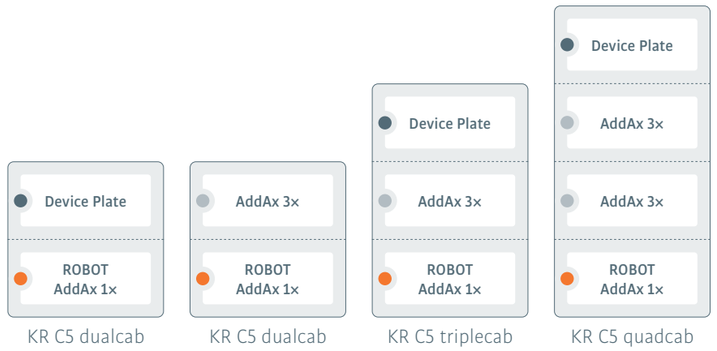
The production of the future is smart and operates on a whole new level with the KR C5. KUKA's latest platform for robot controllers enables space-saving solutions, delivers supremely efficient performance and conserves resources. It can thus also be seamlessly integrated into heterogeneous automation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



KR C5 dualcab KR C5 dualcab KR C5 triplecab KR C5 quadcab

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

click for more

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 × W × D)	dualcab 720 × 720 × 600 mm triplecab 960 × 720 × 600 mm quadcab 1,210 × 720 × 600 mm Controller 207 × 392 × 500 mm
Weight	dualcab approx. 83 kg triplecab approx. 107 kg quadcab approx. 131 kg Controller approx. 22 kg
Protection rating	IP 54 (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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