



Robot controller
_KR C5



KR C5 _the heartbeat of future production

Maximum performance, connectivity and flexibility – with the trend-setting latest generation of robot controllers from KUKA, the pulse of automated production is rising rapidly. The KR C5 integrates seamlessly into existing infrastructures and immediately delivers added value through more efficient performance in all application areas.

Highlights of the KR C5

- Durable and future-proof hardware with modular cabinet system
- Ethernet and digital IO interfaces, supports various cloud systems
- Easy installation, low total cost of ownership
- Wide range of options and hardware expansion possibilities
- Future-proof control platform for software products and digital services

KR C5

_the heartbeat of future production

The production of the future is smart, and with the KR C5 it is moving to a completely new level. The latest platform for robot controllers from KUKA offers possibilities for saving space, delivering highly efficient performance and at the same time conserving resources. This means that it can be seamlessly integrated into heterogeneous automation landscapes, and almost all KR C4 applications are still supported. Reduced hardware and energy requirements offer greater application potential with maximum efficiency. And thanks to the interconnectivity of the open platform design, mere data becomes valuable information.



Designed for highest connectivity

Seamless integration into OT, IT and cloud environments: together with various cloud systems, the KR C5 turns data into valuable information.

Designed for maximum scalability

The central power supply, a scalable modular cabinet system for robot controllers, additional axis modules and peripheral installations, and plug-independent cable feed-through ensure flexible application possibilities.

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.

Interface for input/output signals

XG12 16 input/output signals 24 V	Extension module EtherCAT Slave (M / M bridge)
Extension module digital IO extensions	Extension module PROFibus Master / Slave
XG11.1 / 2 basic cell safety IO signals	Extension module DeviceNet Master / Slave
XG11.3 additional cell safety IO signals (upcoming later)	PROFINet/PROFIsafe
XG13 extended discrete safety IO signals (upcoming later)	EthernetIP/CIP Safety (upcoming later)
	Extension module EtherCAT Slave/ FSoE (upcoming later)

Including accessories

KUKA smartPAD
Plug package

Technical data

Power supply	AC 380–480 V 3-phase (without transformer) 50 Hz–60 Hz	
Axes	6 robot axes up to 6 additional axes	
CPU architecture	Intel X86 (main CPU) + ARM (auxiliary CPU)	
Internal storage	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
	controller	207 x 392 x 500 mm
Weight approx.	dualcab	70 kg
	triplecab	90 kg
	controller	22 kg
Protection class	IP 54	
Ambient temperature during operation	0 °C–45 °C	
Safety	ISO 10218-1	Industrial robots
	ISO 13849-1	Cat. 3 / Performance Level d
Certification	UL / CSA (upcoming later)	

Controller options

Empty installation space and device plate
US1 / US2 peripheral power supply
Multiple IO and communication options
Front panel interfaces
Multiple cabinet lock options
Set of rollers
Cable holder
Fork slots
Removeable SSD card

www.kuka.com/contacts

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