

KUKA



KR FORTEC ultra.

Full control even with large loads.



_Heavy payloads



KR FORTEC ultra.

Full control even with large loads.



The heavy-duty robots with payloads of up to 800 kilograms offer maximum performance in the smallest space and feature fast and precise handling of large components with high moments of inertia.

Designed for high moments of inertia when handling heavy and large workpieces. From battery handling to gigacasting. In production, the requirements for payload and reach are increasing sharply with ever higher moments of inertia of the workpieces. The KR FORTEC ultra robots have been designed to meet these requirements with maximum efficiency in the smallest possible space. As an intelligent modular and common parts concept, it is possible to select the optimum robot for an application and to adapt it in the field. Leading the way in performance, cost-effectiveness and flexibility. Today and in the future.

click for more



Unbeatable power in a compact design.

- Most powerful in its class: up to 800 kg payload
- Small footprint: 950 x 970 mm footprint
- Lightweight in the heavy-duty class: only 2.2 t
- High dynamics with low cycle times

Low TCO.

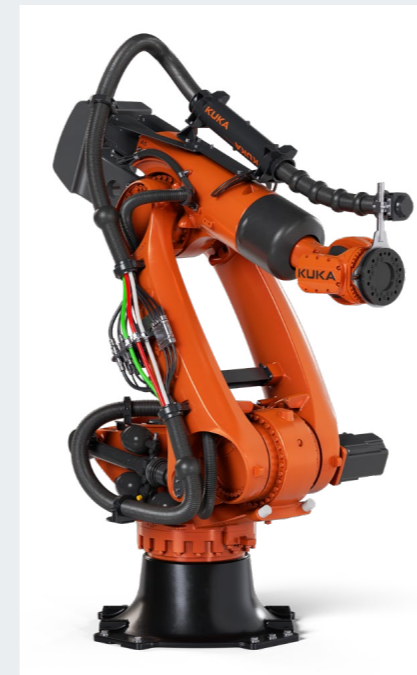
- Low energy consumption
- Highest availability: 99.998 %
- MTBF: up to 400,000 h
- Short maintenance time (MTTM)
- Fast repair time (MTTR)
- Low spare parts requirement

Highest performance and maximum flexibility.

- Compatible with tools of different sizes by selecting a HI (High Inertia) version
- Upgrade to HI version or higher/lower payload versions

Reduced maintenance costs.

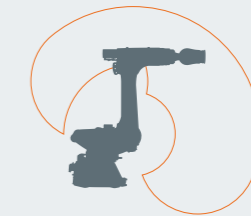
- Components with low maintenance requirements
- Very good accessibility of the robot
- Low maintenance requirements with only 3 actions: Visual inspection, lubrication, oil change every 20,000 h.



Sophisticated energy supply system. Our complete solution for easy installation, low maintenance costs and long service life. From configurator-supported energy supply systems to energy supply systems with flexible K-pipe for more precise movements, we offer you individual solutions tailored to your needs. With equipment perfectly matched to the robot, you can get started immediately and save time and considerable costs during integration.

The advantages of the energy supply system on the KR FORTEC ultra.

- Saves on spare parts thanks to standardized components and lengths
- Optimized for minimum wear and increased service life
- Improved pinch protection
- Identical parts concept with energy supply systems of other robot series



Reach
2.800 – 3.700 mm

Payload
530 – 850 kg

KR FORTEC-2 ultra	KR 480 R3400-2	KR 480 R3700-2	KR 560 R3100-2	KR 640 R2800-2	KR 800 R2800-2
Controller	KR C5	KR C5	KR C5	KR C5	KR C5
Number of axes	6	6	6	6	6
Rated payload	480 kg	480 kg	560 kg	640 kg	800 kg
Reach	3,400 mm	3,700 mm	3,100 mm	2,800 mm	2,800 mm
Pose repeatability	±0.08 mm	±0.08 mm	±0.08 mm	±0.08 mm	±0.08 mm
Weight	2,140 kg	2,460 kg	2,170 kg	2,170 kg	2,400 kg
Variants	-	-	HI	HI	-
Installation position	Floor	Floor	Floor	Floor	Floor

HI High Inertia (optimized for highest mass inertias)

The technical data in the table applies exclusively to standard versions.



-  kuka.com/contacts
-  facebook.com/kukaglobal
-  youtube.com/kukarobotgroup
-  twitter.com/kukaglobal
-  linkedin.com/company/kukaglobal
-  instagram.com/kukaglobal

01.05.2024

Details provided about the properties and usability of the products are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered is determined by the subject matter of the specific contract. No liability accepted for errors or omissions. Subject to alterations. © 2024 KUKA