


# KUKA



**KR CYBERTECH nano.**

Every variant: a master of speed.





\_Low payloads

# KR CYBERTECH nano.

Every variant:  
a master of speed.

**Surpasses limits to master every task.** Regardless of the application for which you use the KR CYBERTECH nano robots, both the in-line wrist and hollow-wrist variants achieve optimal results from the outset. For reducing the maintenance costs in small, compact cells, for complex tasks or in demanding, high-density production chains. Their deployment quickly pays off. Because the new KR CYBERTECH nano series combines maximized performance with minimized investment, integration and maintenance costs.

**Ready for the dynamic markets of the future.** The robots of the KR CYBERTECH nano series set new standards in terms of performance and flexibility. Developed to achieve optimal results in any conceivable application. Unrivaled spectrum of capabilities: outstandingly agile, extremely fast and yet uncompromisingly precise in continuous-path motion – all combined in a single machine. With their sleek and streamlined design, the robots look good even in harsh surroundings.



**Utmost precision.** The industrial robots of the KR CYBERTECH nano family offer a repeatability of 0.04 millimeters. They therefore take full advantage of their strengths even at high speed.

**Streamlined and compact.** Maximum performance with minimal disruptive contours: the new robots are extremely compact, light and streamlined – for a wide range of applications in industrial manufacturing.

**Maximum freedom.** The robots open up previously inaccessible workspaces: they can cover long distances, with an extremely large workspace to the rear and a long downward reach.

**ESD protection.** As standard, the robot is protected against uncontrolled electrostatic charging or discharging and is thus equipped for the safe handling of sensitive electronic components.

**Process-optimized motion sequences.** The KR CYBERTECH nano family has optional digital plug-in Motion Modes. These are digitized motion modes that optimize the robot sequence for specific application scenarios. “Path Mode”, for example, enables high-precision continuous-path motion. “Dynamic Mode” allows a higher acceleration and velocity in order to minimize cycle times still further.

**Any installation position.** Install the KR CYBERTECH nano industrial robots on the floor, wall or ceiling, or at any other angle – for a wide range of different requirement profiles in any desired installation position.

**Most streamlined in-line wrist.** With a minimal interference radius, the KR CYBERTECH nano handling robots have one of the smallest in-line wrists in their class – worldwide. It enables work to be carried out in positions that are inaccessible for other robots.

**Maximum flexibility.** Simply integrate external axes via the robot controller and benefit from the innovative K-PIPE-ES energy supply concept.



The KR CYBERTECH nano in a welding application






**Reach**  
1,440 – 1,840 mm

**Payload**  
6 – 10 kg

KR CYBERTECH nano	KR 10 R1440-2	KR 8 R1640-2	KR 6 R1840-2
Controller	KR C5, KR C5 micro	KR C5, KR C5 micro	KR C5, KR C5 micro
Number of axes	6	6	6
Rated payload	10 kg	8 kg	6 kg
Reach	1,440 mm	1,640 mm	1,840 mm
Pose repeatability	±0.04 mm	±0.04 mm	±0.04 mm
Weight	153 kg	158 kg	162 kg
Variants	HO	–	–
Installation position	Floor, ceiling, wall, angle	Floor, ceiling, wall, angle	Floor, ceiling, wall, angle

**HO** Food compatible lubricants  
The technical data in the table applies exclusively to standard versions.



-  [kuka.com/contacts](https://kuka.com/contacts)
-  [facebook.com/kukaglobal](https://facebook.com/kukaglobal)
-  [youtube.com/kukarobotgroup](https://youtube.com/kukarobotgroup)
-  [twitter.com/kukaglobal](https://twitter.com/kukaglobal)
-  [linkedin.com/company/kukaglobal](https://linkedin.com/company/kukaglobal)
-  [instagram.com/kukaglobal](https://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