

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. Unrivalled 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.



click for more

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.

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.

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.



The KR CYBERTECH nano in a welding application in our standard KUKA cell4_arc compact cell.



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



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