

# KUKA



## KR DELTA.

A big performer for small spaces.





Small robots

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With the new KR C5 micro robot controller for small robots, KUKA is taking automated production to a new level: durable and future-proof.

The KR DELTA delivers with speed, precision, range, reliability, versatility – all with its small footprint. This parallel arm robot was created for pick-and-place tasks focusing on short cycle times and the rapid recognition and handling of objects. With a payload capacity of three kilograms, it is ideal for the automation of order – picking and packing tasks – for example in the electronics industry. One particular strength of all robots in the KR DELTA family is their low maintenance requirements. The ball joints are self-lubricating so that replacement of the lubricant in the reduction gears is never required.

In addition to the cost-effective standard version, the KR DELTA is also available in the Hygienic Machine variant. In this hygiene robot version, the KR DELTA HM can also be used in demanding food or medical applications. Here, the entire body of the robot is made of stainless steel. Due to its IP 67 protection rating, it can be cleaned and sterilized with high-pressure cleaners as well as with various industrial chemicals. Both the materials used for the robot body and those used for lubrication comply with the regulations for food contact materials published by the FDA and in the LFGB.

**High speed.** The KR DELTA enables extremely short cycle times as fast as 0.32 seconds.

**Flexible flange.** The flange of the KR DELTA is suitable for easy mounting of a wide variety of tools.

**Large workspace.** The industrial robot operates reliably in a cylindrical workspace with a height of 350 millimeters and a diameter of 1,200 millimeters.

**Small footprint.** The ceiling-mounted robot has an installation area with a diameter of 350 millimeters.

High cost-effectiveness, low maintenance

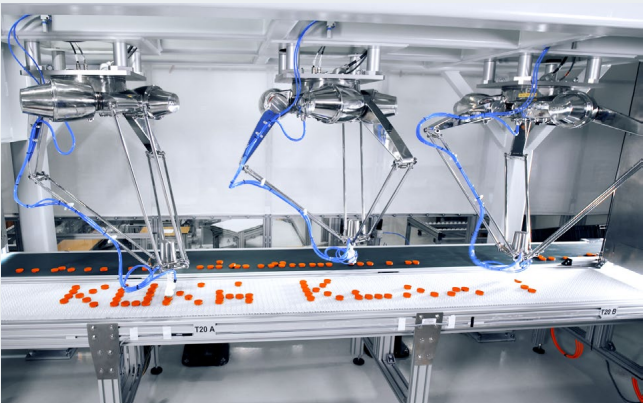
- No replacement of the lubricant in the reduction gears is ever required.
- With an encapsulated gear unit and self-lubricating ball joints, the maintenance requirements of the KR DELTA are particularly low.
- The KR C5 micro, the latest generation of KUKA controllers, is included in the scope of supply. This requires less space and consumes little energy at only 230 volts.
- Direct cleaning with high-pressure cleaners is possible, greatly reducing cleaning-related downtime.

Powerful and easily accessible application system

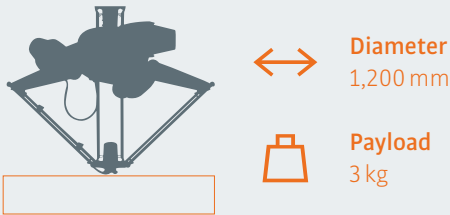
- With the visualization application KUKA.VisionTech and the dedicated KUKA.PickControl software package, the seamless integration of up to ten robots and conveyor systems can be implemented with ease.
- The wide range of applications includes processing, order picking, sorting, packaging, stacking and many other applications in the electronics, food, medical, household chemical and other industries.

The HM version meets the hygiene standards according to the regulations for contact with foodstuffs

- The entire body is made of stainless steel, and is smooth, dirt-repellent and corrosion-resistant, making it easy to clean and disinfect.
- The protection rating for the robot body is IP 67, while the fourth axis meets the high protection rating IP 69K.
- The materials used for the robot body and for lubrication comply with the regulations for food contact materials published by the FDA and in the LFGB.
- Direct contact of the robot body with food and medicines is permissible. This robot variant is particularly suitable for food processing, primary packaging and similar applications.



With flexible DELTA robots – shown here in the HM variant – and matching hardware and software, KUKA offers cost-effective solutions for automated order picking and packing.



KR DELTA	KR 3 D1200	KR 3 D1200 HM	KR 3 D1200-2 HM
Controller	KR C5 micro	KR C5 micro	KR C5 micro
Number of axes	4	4	4
Rated payload	3 kg	3 kg	3 kg
Reach	600 mm	600 mm	600 mm
Diameter	1,200 mm	1,200 mm	1,200 mm
Pose repeatability	±0.05 mm	±0.1 mm	±0.05 mm
Weight	105 kg	95 kg	95 kg
Variants	–	HM	HM
Installation position	Ceiling	Ceiling	Ceiling

HM Hygienic Design



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