

 \bigcirc

Delta and Scara





_Small robots

Little helpers – a big help. The versatile world of KUKA small robots.



KR DELTA







_Small robots

Ĩ **KR DELTA.** A big performer for small spaces.



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.

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

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.

KR DELTA

Controller		
Number of axes		
Rated payload		
Reach		
Diameter		
Pose repeatability		
Weight		
Variants		
Installation position		
HM Hygienic Design		

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 IP69K.
- 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.







Payload 3 kg



KR C5 micro KR C5 micro KR C5 micro 4 4 4 3 kg 3 kg 3 kg 600 mm 600 mm 600 mm 1,200 mm 1,200 mm 1,200 mm	KR 3 D1200	KR 3 D1200 HM	KR 3 D1200-2 HM
3 kg 3 kg 3 kg 600 mm 600 mm 600 mm 1,200 mm 1,200 mm 1,200 mm	KR C5 micro	KR C5 micro	KR C5 micro
600 mm 600 mm 600 mm 1,200 mm 1,200 mm 1,200 mm	4	4	4
1,200 mm 1,200 mm 1,200 mm	3 kg	3 kg	3 kg
	600 mm	600 mm	600 mm
10.0Emm 10.1mm 10.0Emm	1,200 mm	1,200 mm	1,200 mm
±0.0511111 ±0.0511111	±0.05 mm	±0.1mm	±0.05 mm
105 kg 95 kg 95 kg	105 kg	95 kg	95 kg
– HM HM	-	HM	HM
Ceiling Ceiling Ceiling	Ceiling	Ceiling	Ceiling

_Small robots

Ì

KR SCARA. Extremely fast, extremely precise.

Strong, fast, highly efficient. From the assembly of small parts to material handling or inspection – the ultra-compact KR SCARA robots immediately deliver maximum efficiency and cost-effectiveness. With integrated media supply systems, they can master almost any application straight out of the box.

The KR SCARA robots have an internally-routed media supply for air, power and data – a complete package for smart integration of peripheral devices and quick adaptation of the KR SCARA robot to almost any desired application. From the assembly of small parts to material handling or inspection – the 4-axis KR SCARA robots are characterized by flexible installation, highly precise motion and low maintenance requirements.





Unbeatable price/performance ratio.

6 or 12-kilogram payload, utmost precision, extremely short cycle times, high speed, low weight – and all at an affordable price.

Optimally adaptable to almost any

task. Media supply in the complete package to enable fast adaptation of the robot to virtually any desired application.

Robust in many working environments. Operational in the entire temperature range from 5° to 40° Celsius, protection rating IP20.

Fast integration of peripheral equipment. Factory-prepared for the safe, quick and simple integration of peripheral equipment.

Certified quality. The KR SCARA robot is internationally certified according to the applicable EU standard.



Thanks to the cleanroom variant,

KR SCARA	KR 6 R500 Z200-2	KR 6 R700 Z200-2	KR 1
Controller	KR C5 micro	KR C5 micro	
Number of axes	4	4	
Payload (maximum/rated)	6 kg / 3 kg	6 kg / 3 kg	
Reach	500 mm	700 mm	
Pose repeatability	±0.02 mm	±0.02 mm	
Weight	20 kg	22 kg	
Variants	-	-	
Installation position	Floor	Floor	

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



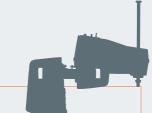




companies with ultraclean production environments – such as those in the semiconductor industry - can also benefit from the strengths of the KR SCARA.



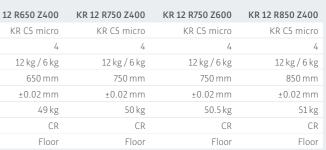
As a robot of the latest generation, the KR SCARA has an internally-routed media supply for air, power and data. A coordinated complete package for the simple integration of peripheral devices and fast adaptation of the robot to virtually any desired application.







Payload 6 – 12 kg





kuka.com/contacts

- facebook.com/kukaglobal
- youtube.com/kukarobotgroup

🔰 twitter.com/kukaglobal

in linkedin.com/company/kukaglobal

instagram.com/kukaglobal

07.06.2023

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. © 2023 KUKA