



Industrial robotics
_KR SCARA



KR SCARA

_tailored to maximize
production performance

Powerful, fast and highly reliable. From assembling small parts to material handling or inspection – the new, ultra-compact KR SCARA robots provide cost-effective performance. They impress with extremely short cycle times, utmost precision, a payload capacity of up to 6 kg and a reach of 500 mm or 700 mm. With a wide range of integrated media supply systems, they can master virtually any task without any modification.

Highlights of the KR SCARA

- **Powerful:** maximum payload capacity of up to 6 kg
- **Extremely short cycle times:** as fast as 0.36 s*
- **500 mm or 700 mm reach:** optimal for all applications in the standard workspaces of electronic manufacturing lines
- **Maximum availability** with reduced service requirements
- **Quick to integrate,** reliable in operation with a wide range of integrated media supply systems
- **Ultra-compact:** minimal footprint, streamlined design and internally-routed media supply for minimized disruptive contours allow for easy integration into small cells

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KUKA has developed all robot parameters for utmost flexibility in production. The two new KR SCARA robots make automation simpler and ensure flexibility, even in extremely cost-sensitive markets. Equipped with the latest state-of-the-art controller technology by KUKA, both robot types from KUKA offer you an attractive overall package with intelligent features that are unique in its class: light and streamlined, with a maximum payload capacity of 6 kg, and yet extremely fast and powerful. The KR SCARA with a 500 mm reach has an extremely short top cycle time of as little as 0.36 s. The KR SCARA with a 700 mm reach has an impressive cycle time of 0.38 s in the “Small Adept Cycle”^{*}.

As a latest-generation robot, the KR SCARA features an internally-routed media supply for air, power and data. This is a complete package for the smart integration of peripheral devices and fast adaptation of the robot to virtually any desired application. Paired with the KR C5 micro, virtually any production challenges can be solved and controlled even more intuitively and cost-effectively. The KR C5 micro provides top performance and connectivity in an ultra-compact package. It unites robot PLC, motion and safety control in a housing with a volume of just 16 l.

Greater performance at an attractive price

6 kg payload capacity, utmost precision of 0.02 mm, short cycle times and light weight at a favorable price

Optimally adaptable to any task

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

Certified quality

Internationally certified to EU standard CE

Robust in its work environment

Operational in the entire temperature range from 5 °C to 40 °C, IP protection class 20



KR SCARA	KR 6 R500 Z200	KR 6 R700 Z200
Number of axes	4	4
Payload (maximum / rated)	6 kg / 3 kg	6 kg / 3 kg
Reach	500 mm	700 mm
A3 stroke	200 mm	200 mm
Cycle time*	0.36 s	0.38 s
Repeatability	0.02 mm	0.02 mm
Installation	Floor	Floor
Footprint / drilling pattern	262 mm x 190 mm / 150 mm x 150 mm	262 mm x 190 mm / 150 mm x 150 mm
Temperature range	5 °C – 40 °C	5 °C – 40 °C
Protection class	IP 20	IP 20
Integrated energy supply	Electronic (15 pin and 9 pin: D-Sub), Air Ø6x2, Ø4x2	Electronic (15 pin and 9 pin: D-Sub), Air Ø6x2, Ø4x2
Control panel	KUKA smartPAD	KUKA smartPAD
Controller	KR C5 micro	KR C5 micro
Certification	CE	CE

*Cycle time according to the “Small Adept Cycle” reference standard with 1 kg payload

www.kuka.com/contacts

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