

	SR3-3/0.7	SR4-4/0.9	SR4-5/0.9
Specifications			
Payload	3 kg	4 kg	5 kg
Reach	705 mm	919 mm	919 mm
Weight	About 13.8 kg	About 16.5 kg	About 16.5 kg
Degrees of freedom	6	6	6
MTBF	> 80,000 h	> 80,000 h	> 80,000 h
Power supply	48VDC	48VDC	48VDC
Programming	Direct teaching control and graphical interface	Direct teaching control and graphical interface	Direct teaching control and graphical interface

Performance						
Typical Power	160w		225w		225w	
Safety	Over 21 adjustable safety features including collision detection,virtual walls, and collaboration mode.					
Certification	EN ISO 13849-1, EN ISO 10218-1/ PL d, Cat. 3; ISO 15066, and EU CE marking requirements, KCs marking requirements,EAC marking requirements					
Force sensing (tool flange)	Force, x-y-z	Torque, x-y-z	Force, x-y-z	Torque, x-y-z	Force, x-y-z	Torque, x-y-z
Torque sensor resolution	0.1 N	0.02 Nm	0.1 N	0.02 Nm	0.1 N	0.02 Nm
Adjustable range of Cartesian stiffness	0~3000N/m, 0~300Nm/rad		0~3000N/m, 0~300Nm/rad		0~3000N/m, 0~300Nm/rad	

Motion						
Repeatability	±0.03 mm		±0.03 mm		±0.03 mm	
Motion joint	Working range	Maximum speed	Working range	Maximum speed	Working range	Maximum speed
Axis 1	±360°	180°/s	±360°	180°/s	±360°	180°/s
Axis 2	-155°~+140°	180°/s	-160°~+150°	180°/s	-160°~+150°	180°/s
Axis 3	-175°~+135°	180°/s	-170°~+140°	180°/s	-170°~+140°	180°/s
Axis 4	±360°	180°/s	±360°	180°/s	±360°	180°/s
Axis 5	±360°	180°/s	±360°	180°/s	±360°	180°/s
Axis 6	±360°	180°/s	±360°	180°/s	±360°	180°/s
Maximum speed at tool end	≤ 1.5 m/s		≤ 2.0m/s		≤ 2.0m/s	

Considering the upgrade of the product, the actual parameters of the product shall be subject to the corresponding hardware installation manual

Physical properties	
IP rating	IP54
ISO cleanroom class	5
Noise	≤ 70 dB(A)
Operating ambient temperature	0°C~50°C
Humidity	≤ 93% RH (non-condensing)
Robot installation	At any angle
Tool I/O ports	2 Digital outputs, 2 Digital inputs, 2 Analog inputs
Tool communication interface	One 100-megabit Ethernet port with RJ45 interface on the connection base
Tool I/O power supply	(1) 12V/24V 1A (2) 5V 1.5A

Controller	
Name	LightCab
IP rating	IP20
Operating ambient temperature	0°C~50°C
Humidity	≤93% RH (Non-condensing)
Input power	48VDC
Dimensions	228.5 mm x 180 mm x 88 mm
Weight*	About 2.4 kg
General digital IO	4 Digital outputs, 4 Digital inputs
Safety IO	2 safety inputs,1 safety outputs
Communication	2 channels Ethernet,Ethercet
Optional extension	General Digital I/O module; Analog I/O module; Incremental encoder signal acquisition module, etc.



ROKAE Robotics

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ROKAE

SR Series

Flexible Cobots

Lightweight & Flexible,
Extreme Safety



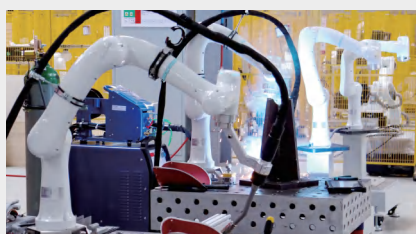
SR Series

Flexible Cobots



xMate SR, ROKAE's next-generation flexible cobot series that is lightweight, flexible, and great in cost performance, is a good helper for people's work and life. Independent controller cabinet caters to more confined base installation environments.

Applications



- Unmanned retail
- Automated catering
- Robotic coffee
- Robotic ice cream
- Robotic popcorn
- Robot moxibustion
- Robot massage
- Loading and unloading
- Assembly
- Inspection
- Welding



SR3-3/0.7

KG 3 kg
↔ 705 mm



SR4-4/0.9

KG 4 kg
↔ 919 mm



SR4-5/0.9

KG 5 kg
↔ 919 mm

Features

Extreme Safety, Comprehensive Guarantee

High-precision torque sensors in all joints enable ultra-sensitive force sensing, thus effectively avoiding accidental collisions and injuries and ensuring safe operation.

- Collision sensitivity improved by 5 times
- More than 21 TÜV functional safety features
- Independent RSC design, dual-channel redundant monitoring
- Suction band-type brake for reliable and safe shielding
- Human-machine collaboration for the perfect guarantee of production efficiency
- Compliance with international safety standards for worry-free certification and approval



Lightweight & Flexible Fashionable & Friendly

The innovative design brings superb lightweight flexibility as well as user-friendly human-machine interaction, shattering stereotypes about robots.

- Streamlined shape
- Delicate and delightful color scheme
- Simple and fashionable design



Excellent Reliability Solid Partner

Industry-leading 80,000 hours of MTBF makes it an economical and solid partner

- 100+ design verification experiments, 120-hour 20+ ex-factory tests
- Component-level quality control based on a mature and reliable supply chain
- 30% longer gear reducer life thanks to advanced robot algorithms
- Dynamic modeling based on over 2000 parameters, effectively preventing overload



Excellent Accessibility, Easy to Use

Extremely easy to use and deploy, allowing quick installation and commissioning by beginners

- Only 1N for dragging and direct teaching programming, enabling easy handling of complex paths
- Graphical user interface that can be mastered within one hour
- Extensive SDK interfaces for rapid development of specialized applications



Sound Ecosystem, Full Empowerment

ROKAE versatile one-stop solutions for human-machine collaboration empower partners and fulfill customer goals

- Millisecond-level real-time secondary development interfaces that help customize high-end functions, making it a reliable partner for equipment manufacturers and integrators
- 6 categories of ecosystem extensions and 100+ ecosystem partners that fully empower industrial applications
- Various communication protocols such as Modbus, PROFINET and CC-Link are supported, enabling it to be quickly integrated into the application environment
- The powerful offline simulation software, RokaeStudio, supports users in quickly creating solutions

