	SR3-C		SR4-C		SR5-C	
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 revolute joints		6 revolute joints		6 revolute joints	
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
Force measurement resolution	0.1 N	0.02 Nm	0.1 N	0.02 Nm	0.1 N	0.02 Nm
Relative accuracy of force control	0.5 N	0.1 Nm	0.5 N	0.1 Nm	0.5 N	0.1 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)
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) 24V/12V, 1A (2) 5V, 1.5A
Operating ambient temperature	0°C~50°C
Humidity	⩽ 95% RH (non-condensing)

Control cabinet

Name	LightCab
IP rating	IP20
Operating ambient temperature	0°C~50°C
Humidity	⩽93% RH (Non-condensing)
Dimensions	228.5mm x 180mm x 88mm
Weight	About 2.4 kg
User IO	4 Digital outputs, 4 Digital inputs
Communication	2 channels Ethernet
Power output	24V, 1.5A

ROKAE Robotics

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ROKAE

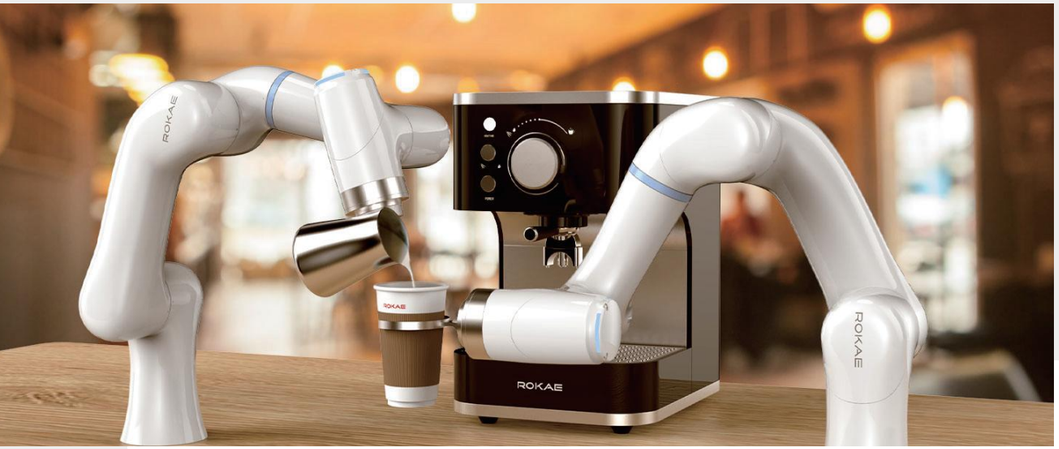
SR-C Series

Flexible Cobots

Lightweight & Flexible, Extreme Safety

SR-C Series

Flexible Cobots



Expanding upon the distinctive features and core advantages of the xMate SR flexible cobot, the **xMate SR-C** takes it a step further by relocating the controller to create an independent controller cabinet. This design caters to more confined base installation environments. Furthermore, the xMate SR-C undergoes a comprehensive upgrade, now supporting a 5 kg payload capacity.

Applications

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

SR3-C

KG 3 kg

⟷ 705 mm

SR4-C

KG 4 kg

⟷ 919 mm

SR5-C

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