

SR Series Specifications

Specifications	SR3-3/0.7C	SR5-5/0.9C
Payload	3 kg	5 kg
Reach	705 mm	919 mm
Weight	About 13.8 kg	About 16.5 kg
Degrees of freedom	6	6
MTBF	> 80,000 h	> 80,000 h
Power supply	48VDC	48VDC
Programming	Direct teaching control and graphical interface	Direct teaching control and graphical interface

Performance

Typical Power	160 w	225 w
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
Torque sensor resolution	0.1 N	0.02 Nm
Adjustable range of Cartesian stiffness	0~3,000 N/m, 0~300 Nm/rad	0~3,000 N/m, 0~300 Nm/rad

Motion

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



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.



Lightweight & Flexible, Fashionable & Friendly

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



Excellent Reliability, Solid Partner

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



Higher ROI

Flexible and easy to deploy, enabling rapid task switching, which shortens the payback period.



SR3-3/0.7C



SR5-5/0.9C