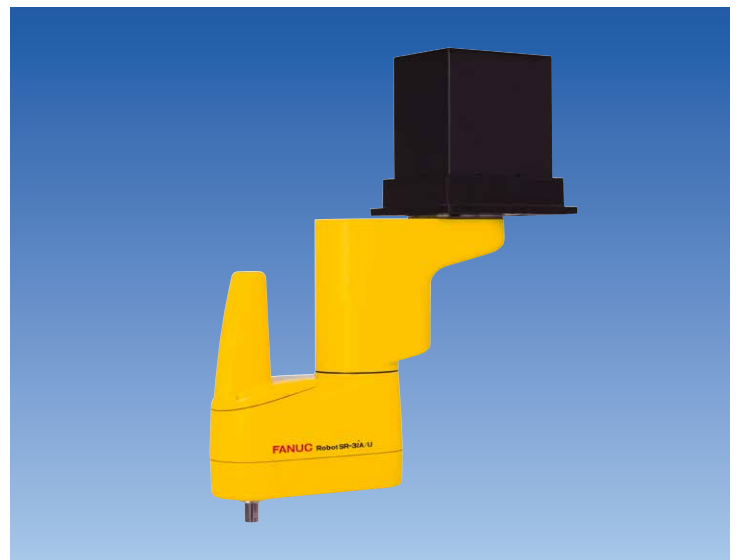


FANUC Robot SR series

FEATURES

FANUC Robot SR-3*i*A, 6*i*A, 12*i*A, 20*i*A is SCARA robot whose payload is 3 to 20kg.

- Nine models are available to meet a variety of payload, motion range and installation requirements.
- A lightweight arm and the most advanced servo technology enables superior accuracy and high duty performance, which improves productivity.
- The SR-3*i*A and 6*i*A offer food grade options. The SR-12*i*A and 20*i*A offer environmental options including white epoxy coating, bellow covers, anti-rust bolts and seals, and IP65 rating to withstand dust and liquids.
- Internal cable routing in the J2 arm eliminates interference, and the hollow arm on the J4 rotation axis allows easy gripper installation.
- SR-3*i*A/U is a ceiling mount type robot. It can use its full 360° envelope to maximize work space, even in limited areas.
- The R-30*i*B Compact Plus controller is significantly smaller than previous controllers with the same functionality and power.
- Easy to use and intuitive robot setup and programming on a PC or Tablet
- Latest intelligent functions are available, such as *i*RVision (integrated vision) and *i*RPickTool.

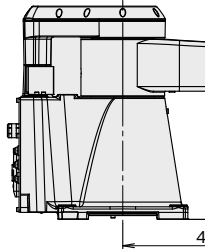
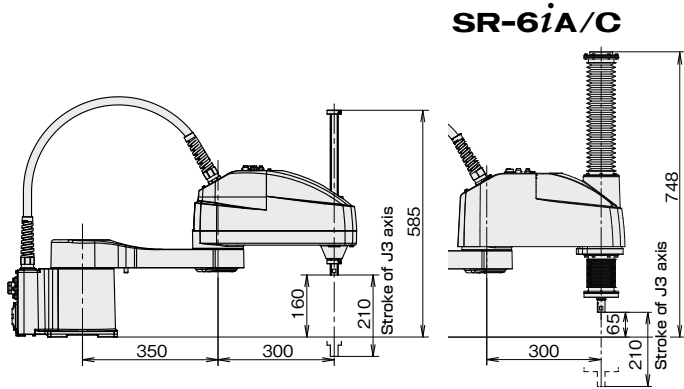
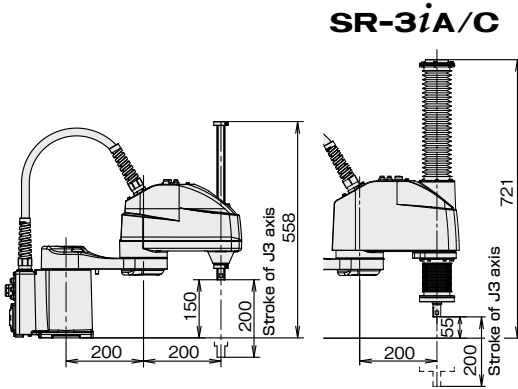
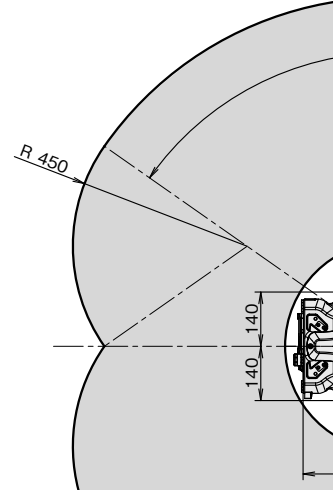
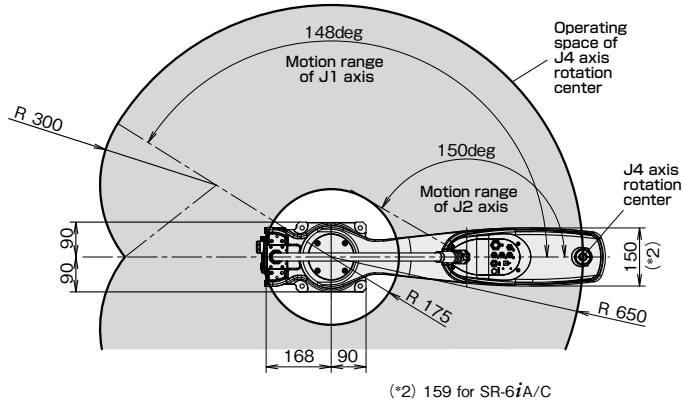
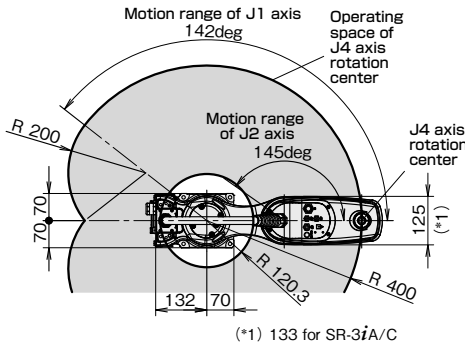


SR-3*i*A/U

Operating Space

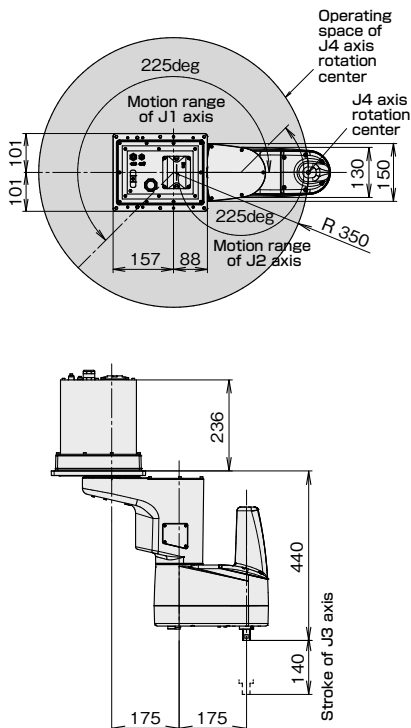
SR-3iA
SR-3iA/C
SR-3iA/H

SR-6iA
SR-6iA/C
SR-6iA/H



SR-3iA/U

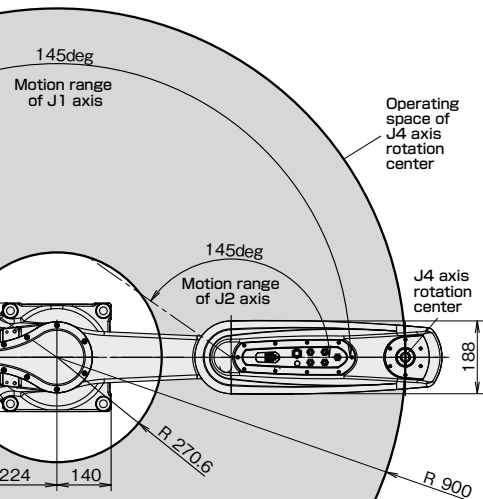
Specifications



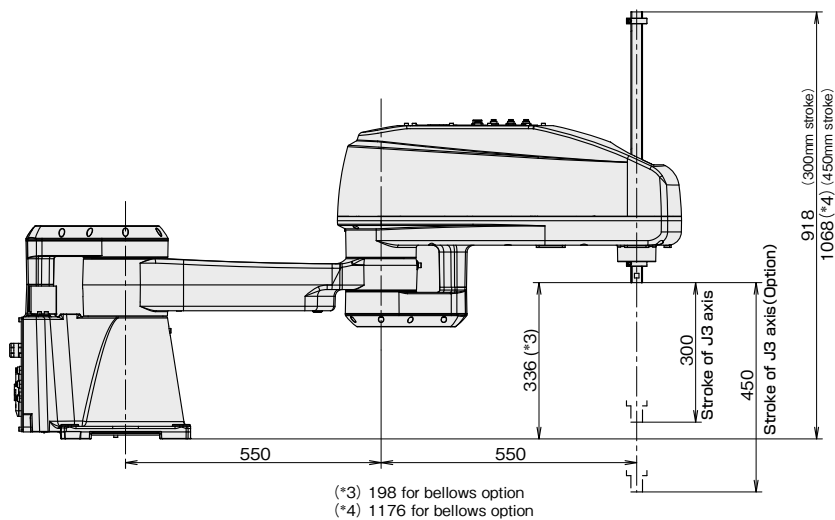
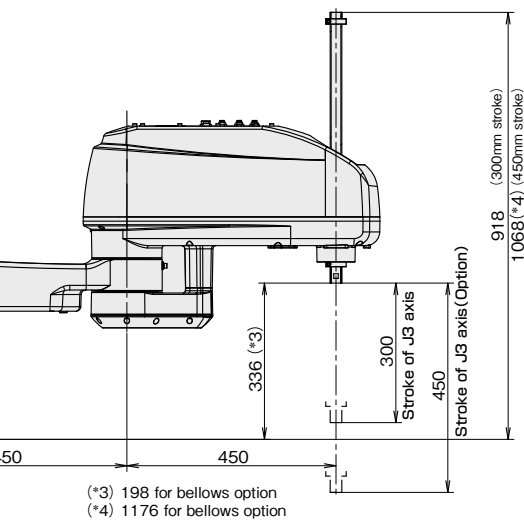
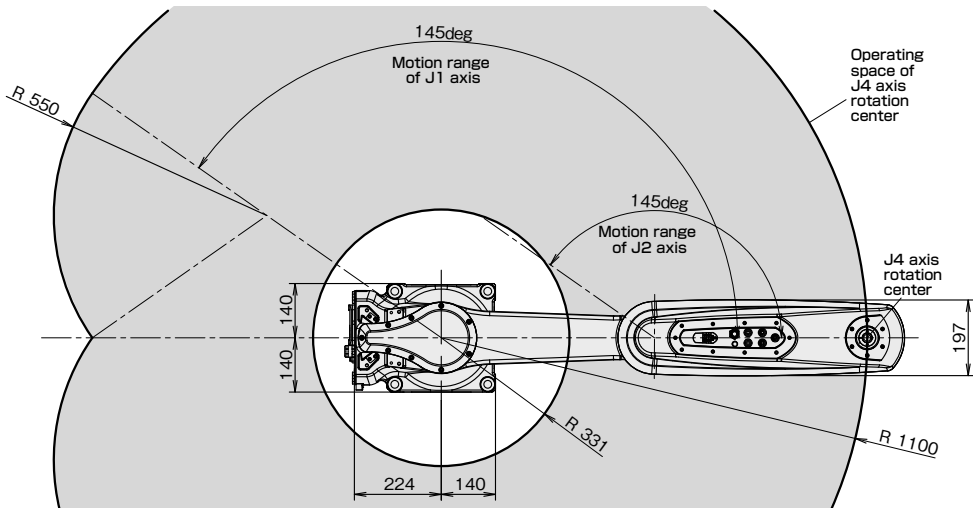
Model		SR-3iA/U	SR-3iA	SR-3iA/H
Type				
Controlled axes		4 axes (J1, J2, J3, J4)		
Reach		350 mm		400
Installation		Ceiling		
Motion range (Maximum speed) (Note 1)	J1 axis	± 225deg (610deg/s) ± 3.93 rad (10.65 rad/s)		± 142deg (400deg/s) ± 2.48 rad (7.14 rad/s)
	J2 axis	± 225deg (840deg/s) ± 3.93 rad (14.66 rad/s)		± 145deg (400deg/s) ± 2.53 rad (7.14 rad/s)
	J3 stroke	140 mm (1500 mm/s)		200 mm (1800 mm/s)
	J4 axis		± 720deg (3000deg/s) ± 12.57 rad (52.36 rad/s)	3 kg
Max. load capacity at wrist				
Allowable load inertia at wrist		J4 axis	0.06 kg·m ²	
Repeatability	J1 + J2 axis			
	J3 axis			
	J4 axis	± 0.004deg		
J3 axis maximum push down force (Note 2)		150 N		
Cables and air for user		Standard Option		
Mass (Note 3)		27 kg	19 kg	21 kg
Installation environment		Ambient temperature: 0 to 40°C Ambient humidity: 20 to 80% Vibration: 0.1 to 0.5 mm/s		
Matching controller R-30iB Compact Plus	Rated Voltage			
	Mass of controller			
	Dimensions (W×D×H)			
	Degree of protection			

Note 1) In case of short distance motion, the axis speed may not reach the maximum value stated.
 Note 2) Alarms may be occurred if push down for a long time.
 Note 3) Without controller.

SR-12iA

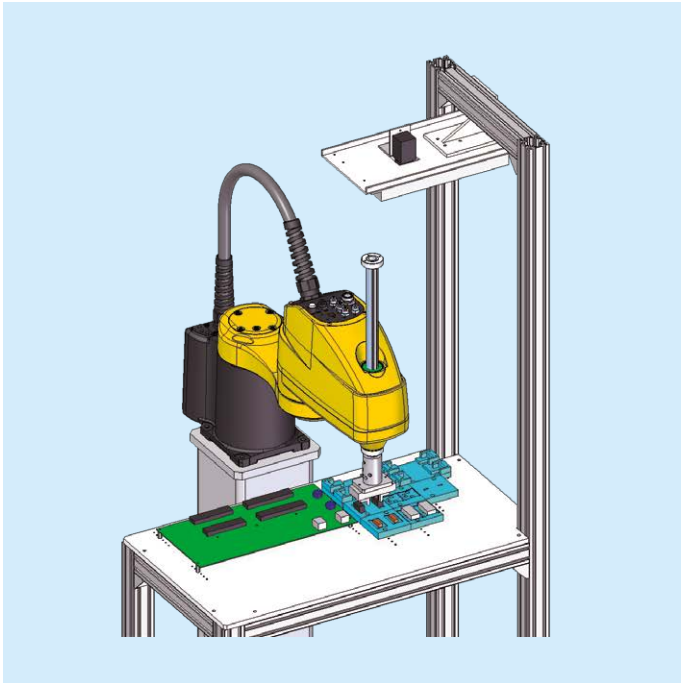


SR-20iA

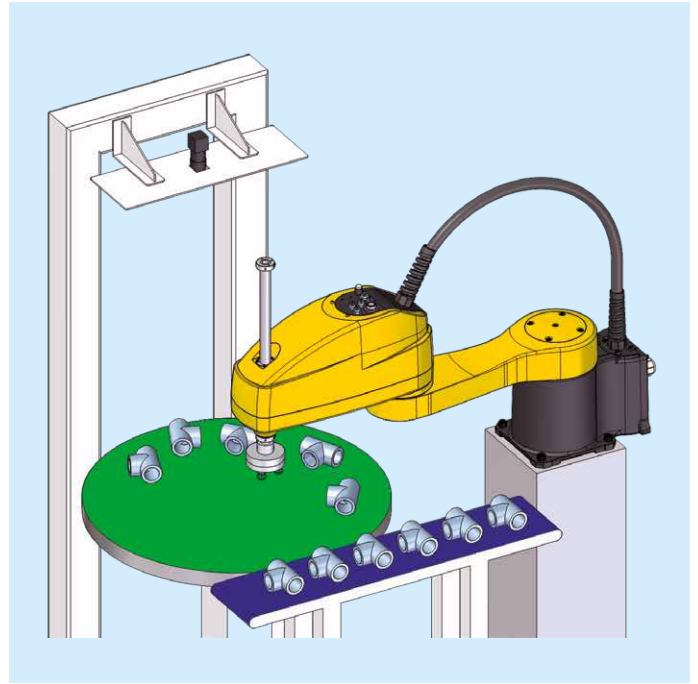


Model	SR-3iA/H	SR-6iA	SR-6iA/C	SR-6iA/H	SR-12iA	SR-20iA
Type	SCARA Type					
Axes	3 axes (J1, J2, J3)	4 axes (J1, J2, J3, J4)		3 axes (J1, J2, J3)	4 axes (J1, J2, J3, J4)	
Width		650 mm			900 mm	1100 mm
Speed		± 148deg (440deg/s) ± 2.58 rad (7.68 rad/s)			± 145deg (440deg/s) ± 2.53 rad (7.68 rad/s)	
Speed		± 150deg (700deg/s) ± 2.62 rad (12.22 rad/s)			± 145deg (510deg/s) ± 2.53 rad (8.90 rad/s)	± 145deg (500deg/s) ± 2.53 rad (8.73 rad/s)
Stroke		210 mm (2000 mm/s)			300 mm (2800 mm/s) 450 mm (Option) (2800 mm/s)	
Speed		± 720deg (2500deg/s) ± 12.57 rad (43.63 rad/s)			± 720deg (2500deg/s) ± 12.57 rad (43.63 rad/s)	± 720deg (1700deg/s) ± 12.57 rad (29.67 rad/s)
Weight		6 kg			12 kg	20 kg
Weight		0.12 kg·m ²			0.30 kg·m ²	0.45 kg·m ²
Positioning Accuracy	± 0.01 mm				± 0.02 mm	
Repeatability	± 0.01 mm				± 0.005deg	
Force		± 0.004deg			250 N	
Force		200 N			250 N	
Ports	RI × 4 / RO × 4, Φ6 mm × 1, Φ4 mm × 2				RI × 4 / RO × 4, Φ6 mm × 3	
Ports	RI × 4, Φ6 mm × 1, Solenoid valve × 2					
Weight	17 kg	30 kg	32 kg	28 kg	53 kg	64 kg
Operating temperature	0 to 45°C					
Operating humidity	Normally 75%RH or less (No dew nor frost allowed) Short term (within one month) 95%RH or less (No dew nor frost allowed)					
Acceleration	4.9m/s ² (0.5G) or less					
Power	AC 200-240V Single phase +10% - 15%, 50/60Hz ± 1Hz					
Weight	9 kg					
Dimensions	440 × 260 × 85.5 mm					
Protection	Conforming to IP20					

Application Examples



Circuit board assembly by SR-3iA

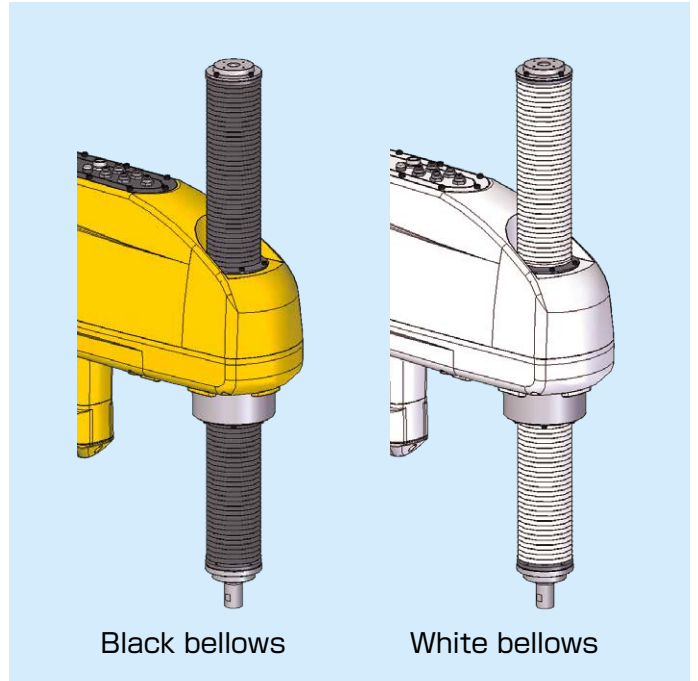


Visual circular tracking by SR-6iA

Option



SR-12iA water proof



Black bellows

White bellows

Example of bellows option

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- FANUC Europe Corporation, S.A.
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- KOREA FANUC CORPORATION
- TAIWAN FANUC CORPORATION
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- FANUC SINGAPORE PTE. LTD.
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