

# Strong, compact and versatile

## SCARA ROBOT

### SR-12iA



**SMART AND CLEAN DESIGN**  
internal cable/pipe routing  
minimize interference area

**BRAKE RELEASE SWITCH**  
allows easy error recovery



**ULTRACOMPACT FOOTPRINT AND ROBOT DESIGN**  
simplifies the integration



**INTEGRATED SERVICES**  
I/O, 24VDC, solenoid  
valves and air lines  
standard on board



**STRONG ARM**  
12 kg max payload



### Next level FANUC Scara robot line-up

- high payload capacity of 12 kg - horizontal reach: 900 mm - vertical reach: 450 mm
- ultra-compact footprint and clean robot design minimizes interference with peripheral devices
- wrist inertia of 0.30 kgm<sup>2</sup> and pushdown force of 250N support assembly, packaging and material handling operations, also with larger grippers
- R-30iB Compact Plus controller with minimum space requirements
- integrated services e.g. I/O, 24VDC, solenoid valves and air lines in the arm reduce costs and simplify integration
- epoxy white IP65 version optional available
- bottom cable exit and wall mounting equipment optional available
- web browser independent user interface iRProgrammer for intuitive programming and ease-of-use via tablet or PC (safari, chrome, IE, etc.)
- iPendant Touch optional supported

# SR-12iA



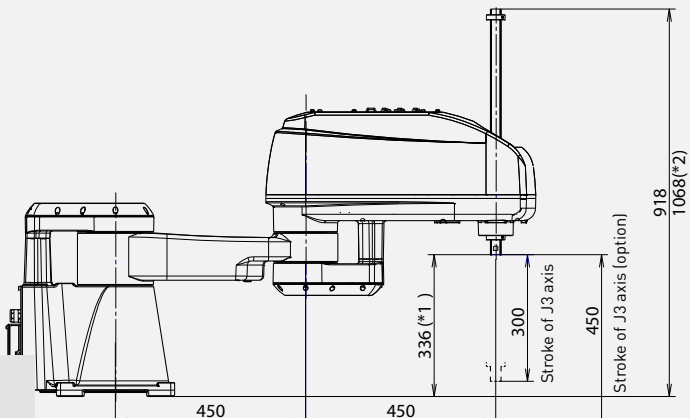
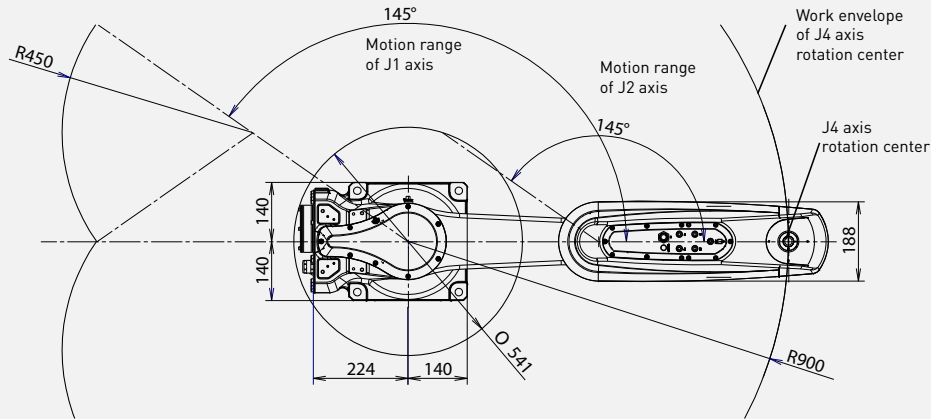
Max. load capacity  
at wrist: **12 kg**



Max. reach:  
**900 mm**

Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range (°)						Maximum speed (°/s)						J4 Inertia (kgm <sup>2</sup> )	J5 Inertia (kgm <sup>2</sup> )	J6 Inertia (kgm <sup>2</sup> )
			J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6			
4	±0.015 (J1,J2), ±0.01 (J3), ±0.005° (J4)	53	290	290	450/ 300mm*	1440	-	-	440	510	2800 mm/sec	2500	-	-	0.30	-	-

## Working range



Motion range may be restricted according to the mounting angle!

(\*1) 198 for bellows option  
(\*2) 1175 for bellows option



### Robot

	SR-12iA
Robot footprint [mm]	280 x 360 (497)
Mounting position Floor	●
Mounting position Ceiling	-
Mounting position Angle	-
Mounting position Wall	○



### Controller

	R-30iB Plus
Compact Plus	●
Open air cabinet	-
Mate cabinet	-
A-cabinet	-
B-cabinet	-
iPendant Touch	-

### Electrical connections

Voltage 50/60Hz 3phase [V]	-
Voltage 50/60Hz 1phase [V]	200-230
Average power consumption [kW]	0.5

### Integrated services

Integrated signals on upper arm In/Out	4 RI
Integrated air supply	1 x 6mm
Integrated solenoid valve	2 valves (4 R0)

### Environment

Acoustic noise level [dB]	<70
Ambient temperature [°C]	0-45

### Protection

Body standard/optional	IP20 \ IP65 *
Wrist & J3 arm standard/optional	IP20 \ IP65 *

### Auxiliary

Max. push-down force [Newton]	250
Max. linear speed at TCP [mm/sec]	3000
Cleanliness class	[tbd]

● standard ○ on request - not available [ ] with hardware and/or software option \* optional