

# Strong, compact and versatile

FANUC

## NEW SCARA ROBOT

SR-20iA



**STRONG ARM**  
20 kg max payload



### BRAKE RELEASE SWITCH

allows easy error recovery



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



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



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



### Next level FANUC SCARA robot line-up

- high payload capacity of 20 kg - horizontal reach: 1100 mm - vertical reach: 450 mm
- ultra-compact footprint and clean robot design minimises interference with peripheral devices
- wrist inertia of 0.45 kgm<sup>2</sup> and pushdown force of 250N support assembly, packaging and material handling operations, also with larger grippers
- CE/NRTL compliant R-30iB Compact Plus controller (world-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
- optional epoxy white IP65 version (Cleanliness class ISO coming soon)
- 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

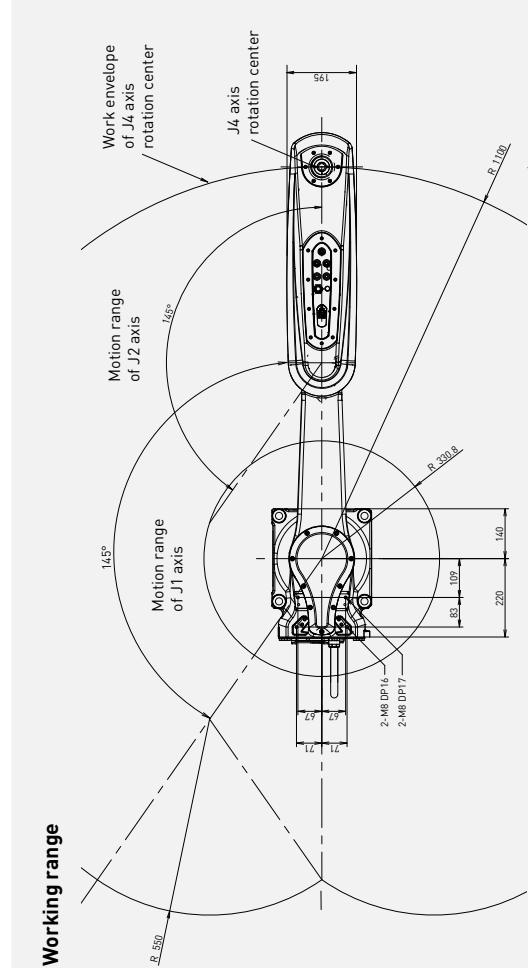
# SR-20iA

Max. load capacity  
at wrist: **20 kg**

Max. reach:  
**1100 mm**

Controlled axes	Repeatability [mm]	Mechanical weight [kg]	Motion range [°]						Maximum speed [°/s]						$J_6$ Inertia [kgm <sup>2</sup> ]	
			J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6		
4	$\pm 0.02 [J1\text{--}J2], \pm 0.008^\circ [J4]$	64	290	290	450/ 300mm*	1440	-	-	440	500	2800 mm/sec	1700	-	-	0.45	-

## Working range



## Robot

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

## Controller

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]	-
Average power consumption [kW]	0.45
Integrated services	●

## Integrated services

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

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

Motion range may be restricted according to the mounting angle!