

Spot welding robot with built-in cables SRA100HS/SRA100HB

Cable built into the hollow arm

Welding cables and hoses packed tightly inside arms with hollow construction

- Avoids interference with surrounding equipment through the displacement of cables
- Improved reliability and safety of cable performance through wrist operations
- The embedded welding cables in the arm make the off-line programming easier

Compact body

Minimized robot height so it can be used in multilevel arrangements

Robot specifications

Item		Specifications	
Robot model		SRA100HS-01	SRA100HB-01
Structure		Articulated	
Number of axes		6	
Drive system		AC servo system	
Max. operating envelope	J1	±3.14rad(±180°)	
	J2	-2.09~+1.05rad(-120~+60°)	
	J3	-2.18~+1.57rad(-125~+90°)	
	J4	±3.66rad(±210°)	
	J5	±2.18rad(±125°)	
	J6	±3.66rad(±210°)	
Max. velocity	J1	2.37rad/s(136°/s)	
	J2	2.00rad/s(115°/s)	
	J3	2.79rad/s(160°/s)	
	J4	3.66rad/s(210°/s)	3.93rad/s(225°/s)
	J5	3.05rad/s(175°/s)	
	J6	5.41rad/s(310°/s)	5.50rad/s(315°/s)
Payload	Wrist	100kg	
	Forearm*1	20kg	
Allowable static load torque for wrist	J4	830N∙m	650N·m
	J5	830N∙m	650N·m
	J6	441N∙m	315N·m
Allowable moment of inertia for wrist* ²	J4	85kg·m²	
	J5	85kg·m²	
	J6	45kg·m²	
Position repeatability*3		±0.1mm	
Installation		Floor	
Ambient conditions		Ambient temperature: 0~45°C*4 Ambient humidity: 20~85%RH (without condensation) Vibration: Not more than 0.5G (4.9m/s ²)	
Noise level*5		79.6dB	
Robot mass		690kg	750kg



*1: This value changes by placement and load conditions of a wrist. *2:The Allowable moment of inertia of a wrist changes with load conditions of a wrist.

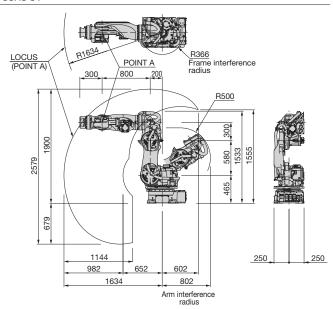
*3:This value conforms to "JIS B 8432"

*4:Permitted height is not higher than 1,000m above sea level. If used in higher place, permitted temperature is affected by height.

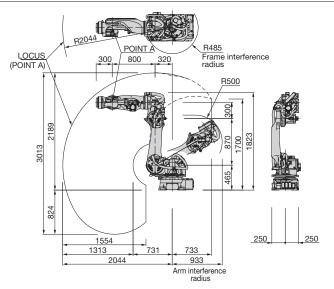
*5:A-weighted equivalent sound level measured according to JIS Z 8737-1 (ISO 11201). (while operating at maximum speed with rated load)

Exterior dimensions and operating envelope

SRA100HS-01



SRA100HB-01



The specifications are subject to changes without notice.
In case that an end user uses this product for military purpose or production of weapon, this product may be liable for the subject of export restriction stipulated in the Foreign Exchange and Foreign Trade Act. Please go through careful investigation and necessary formalities for export.

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