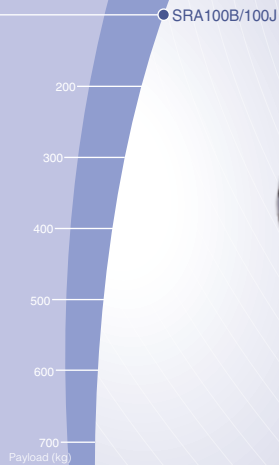


Compact × High Performance

SRA100B/100J



Compact

- Compact arm construction allows installation in small places
Robot base: 500 mm wide
Interference radius of frame: 366 mm

High performance

- High-speed control of SRA series ultra-fast robots
Provides world-class production efficiency
- Plenty of lifting power
Payload capacity: 100 kg
Wrist torque: 580 N·m (J4 and J5 axes)

SRA100B/100J

◆ Robot specifications

| Item | | Specifications | |
|------------------------------------|--|--|--------------------|
| Robot model | | SRA100B-01 | SRA100J-01 |
| Structure | | Articulated construction | |
| No. of axes | | 6 | |
| Drive system | | AC servo system | |
| Max. working envelope | J1 Swivel | $\pm 3.14\text{rad} (\pm 180^\circ)$ | |
| | J2 Horizontal | $-2.09 \sim +1.05\text{rad} (-120^\circ \sim +60^\circ)$ | |
| | J3 Vertical | $-2.62 \sim +3.14\text{rad} (-150^\circ \sim +180^\circ) \quad -2.18 \sim +1.57\text{rad} (-125^\circ \sim +90^\circ)$ | |
| | J4 Rotation 2 | $\pm 6.28\text{rad} (\pm 360^\circ)$ | |
| | J5 Bend | $\pm 2.36\text{rad} (\pm 135^\circ)$ | |
| | J6 Rotation 1 | $\pm 6.28\text{rad} (\pm 360^\circ)$ | |
| Max. speed | J1 Swivel | 2.37rad/s (136°/s) | |
| | J2 Horizontal | 1.92rad/s (110°/s) | 2.01rad/s (115°/s) |
| | J3 Vertical | 2.27rad/s (130°/s) | 2.79rad/s (160°/s) |
| | J4 Rotation 2 | 4.19rad/s (240°/s) | |
| | J5 Bend | 4.07rad/s (233°/s) | |
| | J6 Rotation 1 | 6.13rad/s (351°/s) | |
| Payload | Wrist | 100kg | |
| | Forearm*1 | 25 kg (maximum 45 kg) | |
| Allowable static load torque | J4 Rotation 2 | 580N·m | |
| | J5 Bend | 580N·m | |
| | J6 Rotation 1 | 290N·m | |
| Max. allowable moment of inertia*2 | J4 Rotation 2 | 45kg·m ² | |
| | J5 Bend | 45kg·m ² | |
| | J6 Rotation 1 | 22.7kg·m ² | |
| Max. reach | 2,071mm | 1,634mm | |
| Position repeatability*3 | $\pm 0.06\text{mm}$ | | |
| Installation | Floor mount | | |
| Ambient conditions*4 | Temperature: 0 to 45°C Humidity: 20 to 85% RH (without condensation) Vibration at the installation surface: Not more than 0.5G (4.9 m/s ²) | | |
| Weight | 690kg | 670kg | |

1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

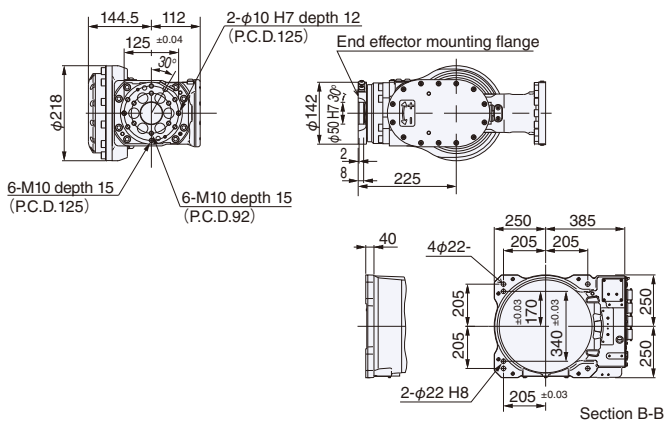
*1 : Load specification of number 1 arm varies according to wrist load conditions and installation position.

*2 : Note that the allowable moment of inertia of wrist varies with the wrist load conditions.

*3 : JIS B 8432 compliant.

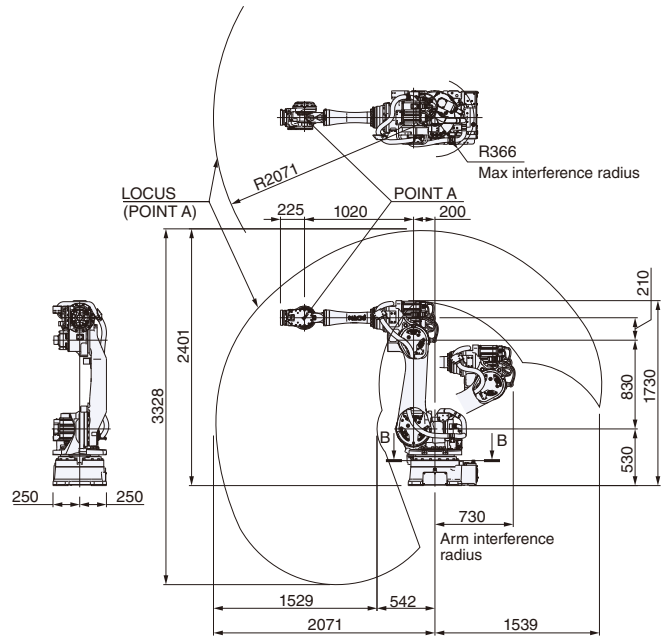
*4 : Permitted height is not higher than 1,000m above sea level. If used in higher place, permitted temperature is affected by height.

Details of wrist attachment (same for SRA100B and SRA100J)

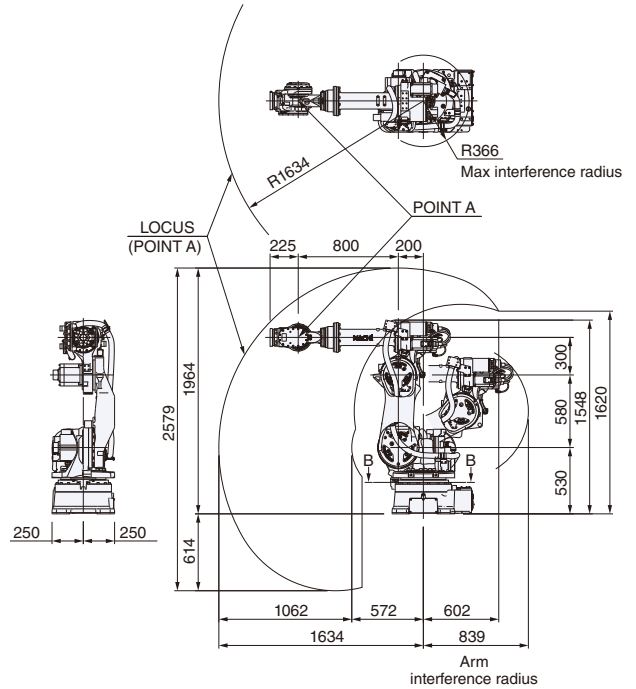


◆ Exterior dimensions and working envelope

SRA100B-01



SRA100J-01



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●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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