



NACHI SC700DL

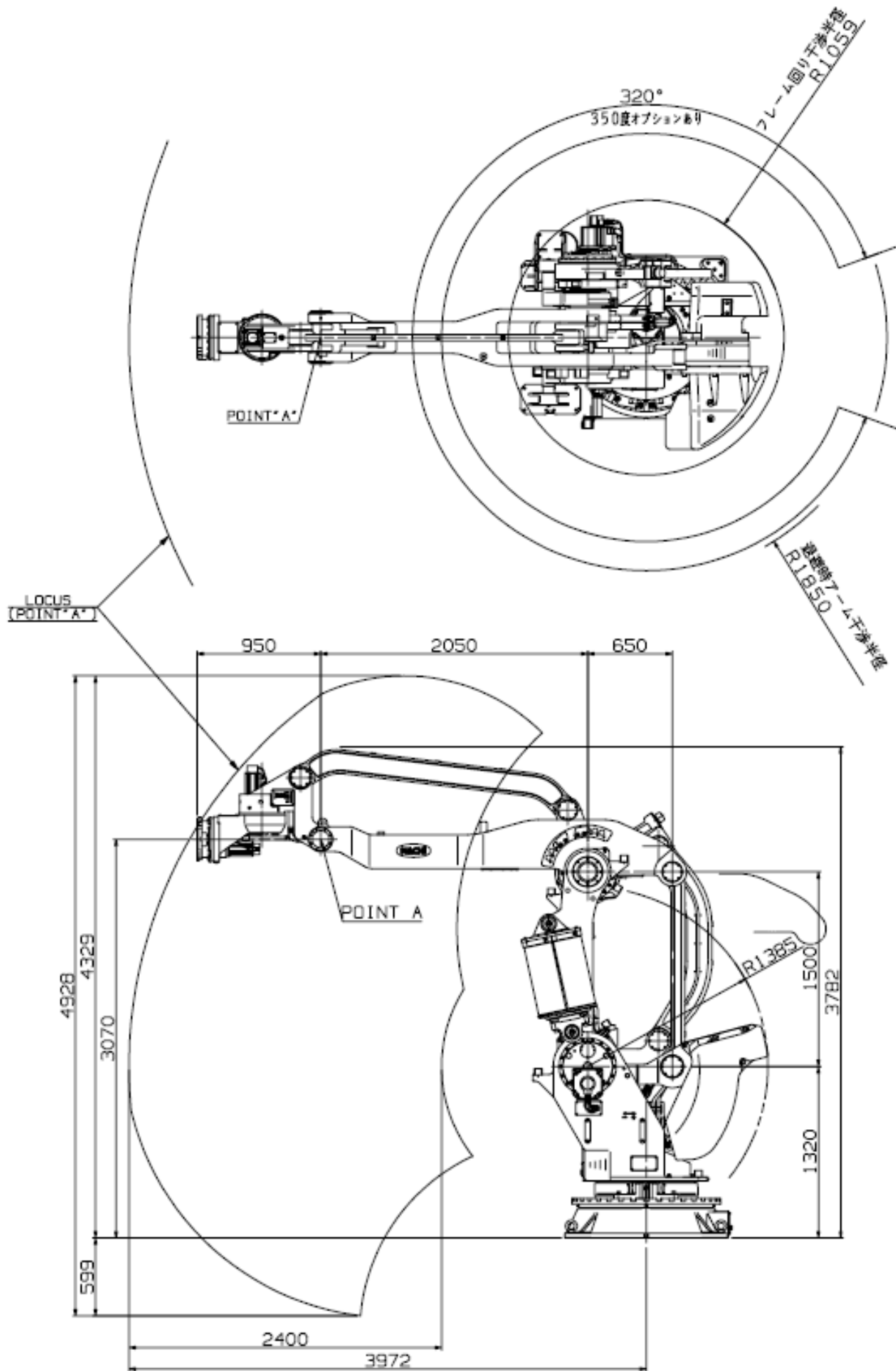
Specification Table

| Specifications | | | SC700DL |
|---------------------|-------|-------------|-----------------------------------|
| Construction | | | Articulated |
| Degrees of Freedom | | | 6 |
| Payload | | | 700 Kgs |
| Drive | | | AC Servo Motor |
| Maximum Stroke | Arm | J1 | $\pm 2.79 \text{ rad}^{\ddagger}$ |
| | | J2 | +1.48 ~ -0.79 rad |
| | | J3 | + .70 ~ -1.57 rad |
| | Wrist | J4 | +1.57 ~ -0.17 rad |
| | | J5 | $\pm 2.18 \text{ rad}$ |
| | | J6 | $\pm 0.17 \text{ rad}$ |
| Maximum Velocity | Arm | J1 | 0.79 rad/s |
| | | J2 | 0.52 rad/s |
| | | J3 | 0.52 rad/s |
| | Wrist | J4 | 0.52 rad/s |
| | | J5 | 0.87 rad/s |
| | | J6 | 0.52 rad /s |
| Wrist Torque | J4 | 13800 N · m | |
| | J5 | 3920 N · m | |
| | J6 | 2940 N · m | |
| Repeatability | | | $\pm 0.5 \text{ mm}$ |
| Ambient Temperature | | | 0~45°C(32~113°F) |
| Vibration Value | | | Below 0.5G |
| Robot Type | | | Floor mount |
| Robot Body Weight | | | 7000 Kg |

Features

- Payload of 700kgs is the largest in the world
- Huge envelope - 4.8 m vertical stroke and 7.0 m horizontal stroke
- Unique link mechanism at 4th axis of the robot to mechanically limit the handled parts inclination.
- Can transfer entire car bodies or engine assemblies between production lines.
- Adjustable mechanical hard stops for all the three wrist axes to ensure safety during handling
- Control software continuously monitors the inclination of the part to provide extra measure of safety during handling.
- Controlled by Nachi's latest AX controller series.
- Can support more than one teach pendant for safety during teaching process.

Robot Dimensions and Working Envelope



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