

**SR12A-12/1.46**

**Max.load capacity at wrist 12kg, Max.reach1465mm**

**Flexible Deployment:** The hollow arch arm design effectively reduces interference with workpieces, enhancing operational flexibility in complex environments. It ensures the robot achieves optimal working postures in confined spaces.

**Precision and Efficiency:** Exceptional power performance meets the demands of high precision, speed, and stability required under fast-paced production cycles, adapting to various rigorous manufacturing conditions.

**Lightweight Design:** Utilizing specialized casting techniques for automotive engine-grade aluminum alloys, the lightweight body, in conjunction with robust driving power, achieves unparalleled velocity and precision.

**Intelligent Excellence:** An advanced smart control system facilitates easy maintenance and management.

Arc Welding, Fastening and Locking, Handling, Assembly, Loading and Unloading, etc.

## Floor, Ceiling, Wall



Axes	Motion range	Maximum speed	Moment	Inertia	Payload	12kg
J1	±180°	200°/s	-	-	Repeatability	±0.03mm
J2	+90°, - 170°	200°/s	-	-	Max.reach	1465mm
J3	+150°, - 90°	220°/s	-	-	Body Weight	130kg
J4	±180°	400°/s	23N·m	0.40kg·m²	Protection (wrist)	IP65
J5	+145°, - 160°	430°/s	20N·m	0.38kg·m²	Input Power	1.2kW
J6	±360°	720°/s	9N·m	0.10kg·m²	Pre-installed Singal Cables	16cores, 0.2mm² per conductor

[illegible]

Technical drawing of a robot flange (Figure 1-10). The main view shows a circular flange with a central hole. Dimensions include: outer diameter 300 ± 0.1, inner diameter 240 ± 0.05, total width 391, and mounting hole diameter 26 ± 0.1. The flange has 4 × Ø 17.5 mounting holes and 2 × Ø 12 H8 (+0.027 / 0) positioning holes. A detail view (A-A) shows the mounting holes with dimensions: 1:5 magnification, 13.5 mm distance from the center, and 10.5 mm distance from the edge.