

AR1440E

7-AXIS ARC WELDING ROBOT

KEY BENEFITS

7-axis design provides expanded effective motion range

Single robot-to-controller cable connection enables fast setup

High-speed robot motion reduces air-cut time

SPECIFICATIONS

6 kg payload

1,440 mm horizontal reach

2,487 mm vertical reach

0.06 mm repeatability

APPLICATION

Arc Welding

CONTROLLER

YRC1000



- Powerful and efficient seven-axis AR1440E welding robot features highly flexible range of motion.
- Seven axes provide greater end-of-arm motion range and additional flexibility for complex tooling and obstacle avoidance in tight work areas.
- Distance between the L-axis and U-axis can be changed by adjusting the angle of the E-axis, effectively creating a variable length L arm.
- 6 kg payload supports a wide variety of motorized torches and sensors.
- Slim profile design allows reaching into confined spaces and close proximity placement of robots for high-density layout flexibility.
- Contoured arm allows easy access to parts in tight spots and avoids potential interference with fixtures.
- Wide wrist motion range also reduces interference and improves application flexibility.
- High allowable moment and inertia ratings provide wrist rigidity and consistent weld quality.
- 50 mm thru-hole for torch cabling, hoses and sensor wires reduces cable interference and wear.
- Minimal U-axis cable protrusion and S-axis internal cable management prolongs cable life and maximizes part access.
- Optimized feeder mounting area on arm reduces equipment interference.
- Modular robot harness design for improved diagnostics and maintenance.
- Single pendant provides control of up to eight robots and multiple positioners.
- Precise coordinated motion with other Yaskawa robots and servo positioners.
- Variety of advanced, exclusive programming functions maximize weld quality and speed.
- The AR1440E has an IP67-rated wrist and an IP54 body standard.
- Floor-mounted with brakes on all axes.
- Compact YRC controller utilizes the lightweight standard teach pendant with intuitive programming.

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