YASKAWA

HIGH-SPEED, THRU-ARM DESIGN

MA1440

ARC WELDING

KEY BENEFITS

NEW! Large 50 mm thru-hole for process utilities

NEW! 6 kg payload for welding applications; 12 kg payload for handling applications

NEW! Contoured arm design improves torch access

Proven torch cable reliability; backed by industry's first two-year torch cable warranty

SPECIFICATIONS

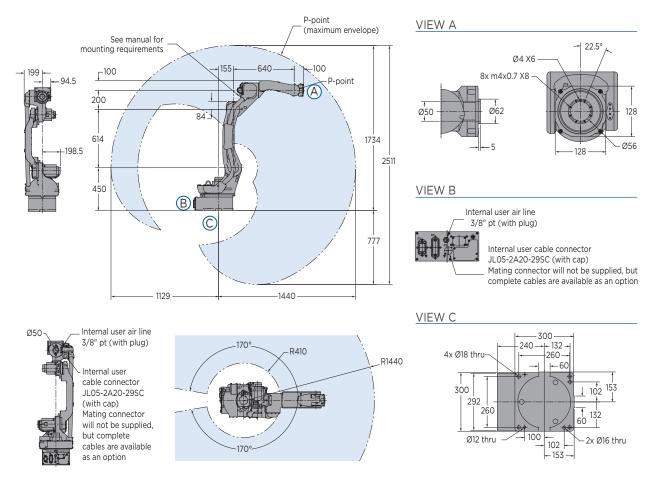
6 kg payload 1,440 mm horizontal reach 2,511 mm vertical reach ±0.08 mm repeatability



- Slim, fast six-axis MA1440 welding robot increases productivity and achieves highest welding performance.
- Large, 50 mm thru-hole for torch cabling, sensor wires and water cooling. Eliminates cable interference, simplifies programming and reduces cable wear.
- 6 kg payload supports motorized torches and sensors.
- Hollow upper arm maintains optimum bend radius of welding torch cable, maximizing weld performance.
 T-axis can rotate torch ±210 degrees without cable interference.
- New, contoured arm design reduces interference with jigs and large parts.

- Optimized mounting area for feeder reduces interference.
- Minimal U-axis cable protrusion eliminates peripheral equipment interference.
- Symmetric wrist profile provides equal torch access to both sides of part.
- Ideally suited for use in high-density workcells with multiple robots working in close proximity.
- Slim arm allows easy access to parts in tight spots and avoids potential interference with fixtures.
- Floor-mounted model is standard. Wall- or ceiling-mounted versions are available.
- Also available with increased 12 kg payload capacity (MH12) for material handling applications.

MA1440 ROBOT



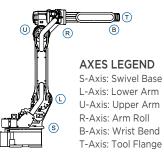
All dimensions are metric (mm) and for reference only. Request detailed drawings for all design/engineering requirements.

SPECIFICATIONS

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [N•m]	Allowable moment of inertia [kg•m²]	Controlled axes Maximum payload [kg] Repeatability [mm]	6 6 ±0.08
S	±170	230	-	-	Horizontal reach [mm]	1,440
L	+155/-90	200	-	-	Vertical reach [mm]	2,511
U	+240/-175	230	-	-	Temperature [°C] Humidity [%]	0 to +45 20 - 80
R	±150	430	10.5	0.28	Weight [kg]	130
В	+90/-135	430	10.5	0.28	Power rating [kVA] Internal I/O cable (feeder control)	1.5 18 conductors
Т	±210	630	3.2	0.06	Internal gas line	(1) 3/8" connection

OPTIONS

Extended length manipulator cables Robot risers and base plates Wide variety of fieldbus cards Vision systems Seam tracking and seam finding packages Variety of weld packages



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