

"VERSATILE ARC" WELDING ROBOT IDEAL FOR HIGH-DENSITY LAYOUTS



KEY BENEFITS

7-axis robot can reduce floorspace by providing high-density robot spacing

Versatile robot can improve joint access when mounted in wall- or ceiling-orientation

Streamlined design with seventh axis ("elbow") improves torch access into tight spaces or reaches around both sides of part

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

SPECIFICATIONS

3 kg maximum payload Vertical reach 2,475 mm Horizontal reach 1,434 mm ±0.08 mm repeatability

CONTROLLERS



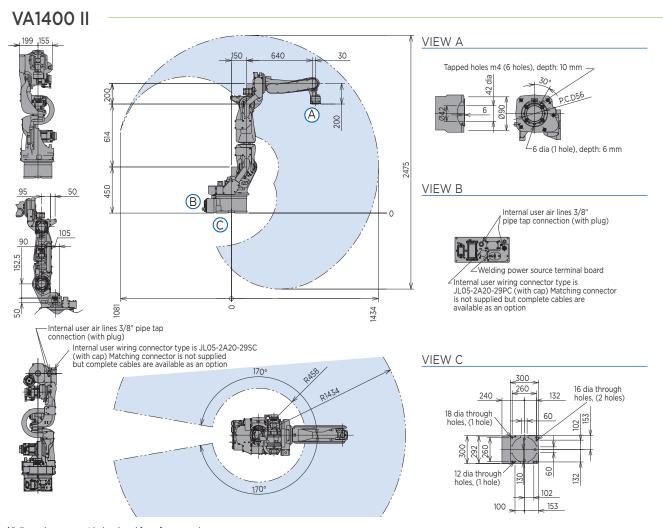




DX200 FS100 MLX200

- Innovative 7-axis design dramatically increases freedom of movement and maintains proper welding posture at all times.
- Located in lower arm, seventh axis (E-axis) acts as elbow, providing tremendous additional flexibility.
- Integrated through-the-arm torch cabling eliminates cable interference, simplifies programming and reduces cable wear.
- Power cable and welding utilities (gas and air hoses) are routed through robot base.
- Hollow upper arm maintains optimum bend radius of welding torch cable, maximizing weld performance. T-axis can rotate torch ±200 degrees without cable interference.

- Symmetric wrist profile provides equal torch access to both sides of part.
- Space-saving design is ideally suited for use in high-density workcells with multiple robots working in close proximity.
- Ideally suited for applications that require access to parts in tight spots or those with potential interference from fixtures.
- Superior welding access provided by seventh axis often makes it possible to consolidate cells and simplify equipment, by eliminating need for part positioner.

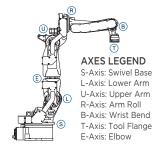


All dimensions are metric (mm) and for reference only. Request detailed drawings for all design/engineering requirements.

SPECIFICATIONS						
Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia	Controlled axes	7
AXCS	[°]	[°/sec.]	[N•m]	[kg•m²]	Maximum payload [kg]	3
S	±170	220	-	-	Repeatability [mm]	±0.08
	+148/-70	200			Horizontal reach [mm]	1,434
L	+148/-/0	200	-	-	Vertical reach [mm]	2,475
U	+150/-175	220	-	-	Temperature [°C]	0 to +45
R	±150	410	8.8	0.27	Humidity [%]	20 - 80
В	+180/-45	410	8.8	0.27	Weight [kg]	150
	,				Power rating [kVA]	1.5
T	±200	610	2.9	0.03	Internal I/O cable (feeder control) [conductors]	16
Е	±90	220	-	-	Internal gas line [connection]	(1) 3/8"

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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