YASKAWA

MOTOMAN AR1440

Arc Welding with the AR-series



The six-axis MOTOMAN AR1440 robot provides fast and accurate performance to achieve optimal results in extremely difficult conditions and especially for the high demands of arc welding applications.

With a payload of up to 12 kg, it's wire feed system, the maximum working range of 1440 mm and integrated media hose package, this robot enables simple machining of bulky and hard-to-access workpieces with high quality results. Furthermore, the slim design allows high-density robot placement in confined spaces.

The fast motion sequences of the MOTOMAN AR1440 robot reduce welding cycle times and the hollow wrist of 50 mm allow integrated torch cabling in the robot arm in order to avoid collisions with the workpiece or other robots.

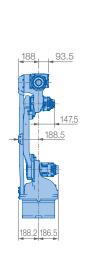
The integration of the power cable and the air connections in the base enable an enlarged turning range of more than 340°.

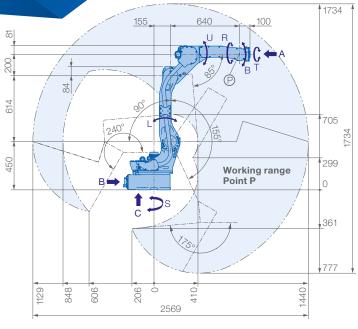
KEY BENEFITS

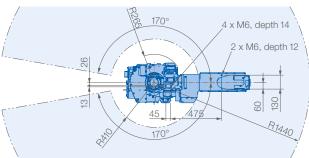
- Fast motion sequences
- Wide motion range
- High path accuracy
- High density placement due to slim design
- Integrated cabling avoids interferences



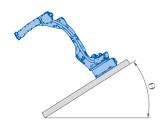
MOTOMAN AR1440

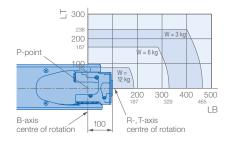




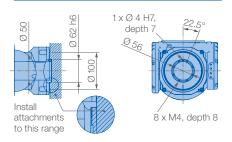


Allowable wrist load





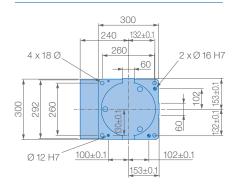
View A



View B



View C



Mounting options: Floor, ceiling, wall, tilt* Protection class: Main axes (S, L, U) IP54, wrist IP67

 $^{^{\}star}\, \text{tilt}$ with condition of angle – see table below

Robot installation angle ⊖ [deg.]	S-axis operating range [deg.]	
$0 \le \Theta \le 30$	±170 degrees or less (no limit)	
$30 < \Theta \le 35$	±60 degrees or less	
$35 < \Theta \leq 45$	±45 degrees or less	
45 < ⊖	±30 degrees or less	

Specifications AR1440							
Axes	motion range spec	Maximum	eed moment	Allowable moment of inertia [kg · m²]	Controlled axes	6	
		[°/sec.]			Max. payload [kg]	12	
s	±170	260	-	-	Repeatability [mm]	±0.02*	
L	+155/-90	230	-	-	Max. working range R [mm]	1440	
U	+155/-85	260	-	-	Temperature [°C]	0 to +45	
R	±200	470	22	0.65	Humidity [%]	20 - 80	
В	±150	470	22	0.65	Weight [kg]	150	
T	±455	700	9.8	0.17	Power supply, average [KVA]	1.5**	

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