YASKAWA

MOTOMAN AR900

Arc Welding with the AR-series

The MOTOMAN AR900 is a compact high-speed 6-axis robot which provides accurate performance to achieve optimal results in extremely difficult conditions and especially for the high demands of arc welding applications.

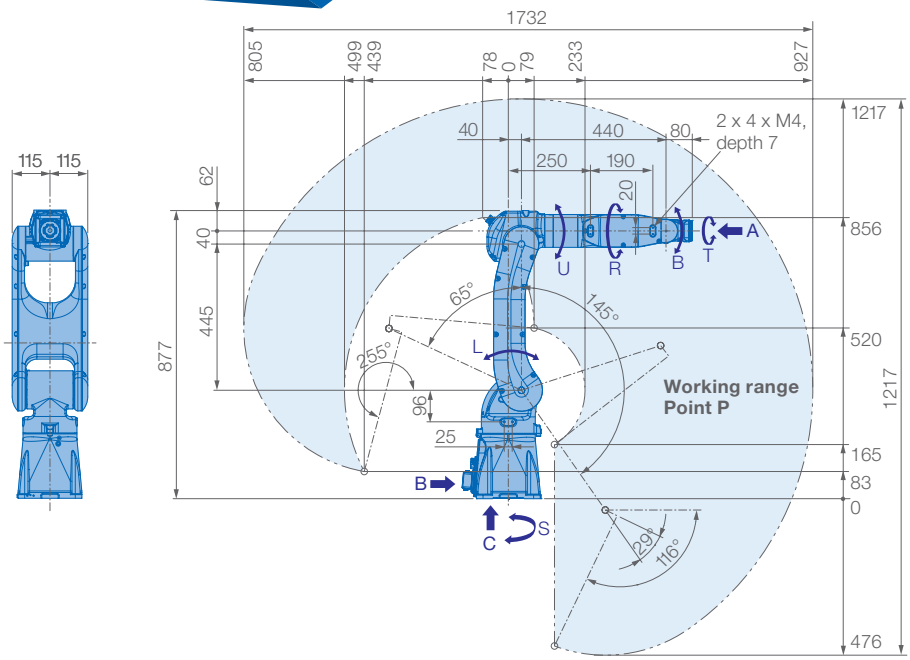
With a payload of up to 7 kg and a working range of 900 mm, this robot enables welding of a broad variety of small workpieces with high quality results. The applicable inertia and axis speeds have been significantly raised, which leads to a “best in class” performance, speed and acceleration.

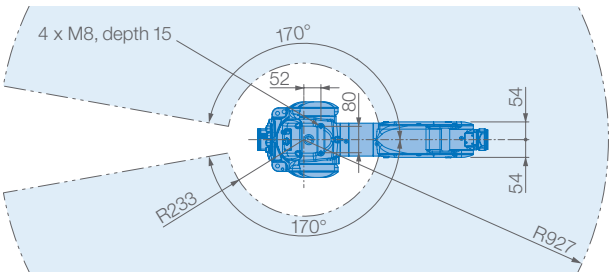
The slim, straight and symmetrical arm design minimizes interference with peripherals even in small workspaces. The MOTOMAN AR900 is easy to clean and well protected (by protection class IP67) against dust or coolants. Cable routing is possible from the side of the robot socket or from the bottom through the base plate (option). This enables easy and space-saving integration into its environment.

KEY BENEFITS

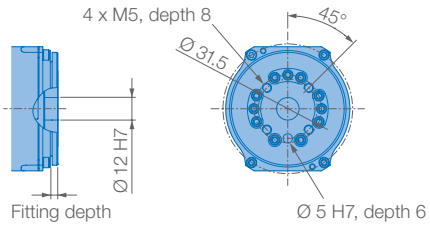
- Compact, fast and accurate
- High acceleration
- Protection class IP67
- Less interferences due to optimized design
- Simple integration, installation and maintenance

Controlled by YRC1000

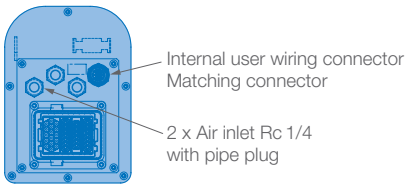




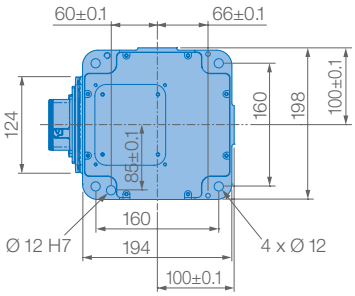
View A



View B



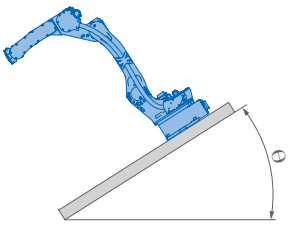
View C



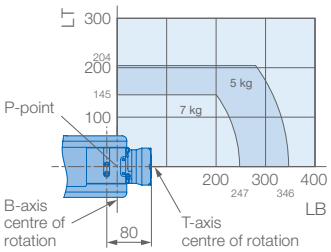
Mounting options: Floor, ceiling, wall, tilt*

IP Protection: IP67

* tilt with condition of angle – see table below



Allowable wrist load



Robot installation angle Θ [deg.]	S-axis operating range [deg.]
0 ≤ Θ ≤ 30	±170 degrees or less (no limit)
30 < Θ ≤ 35	±60 degrees or less
35 < Θ ≤ 45	±45 degrees or less
45 < Θ	±30 degrees or less

Specifications AR900						
Axes	**Maximum motion range [°]**	**Maximum speed [°/s]**	**Allowable moment [Nm]**	**Allowable moment of inertia [kg · m²]**	**Controlled axes**	6
					Max. payload [kg]	7
S	±170	375	–	–	**Repeatability [mm]**	±0.01*
L	+145/–65	315	–	–	**Max. working range R [mm]**	927
U	+190/–70	410	–	–	**Temperature [°C]**	0 to +45
R	±190	550	17	0.5	**Humidity [%]**	20 – 80
B	±135	550	17	0.5	**Weight [kg]**	37
T	±360	1000	10	0.2	**Power supply, average [kVA]**	1**

* Conforms to ISO 9283 ** Varies in accordance with applications and motion patterns

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