

# YASKAWA

# MOTOMAN AR900

Arc Welding with the AR-series



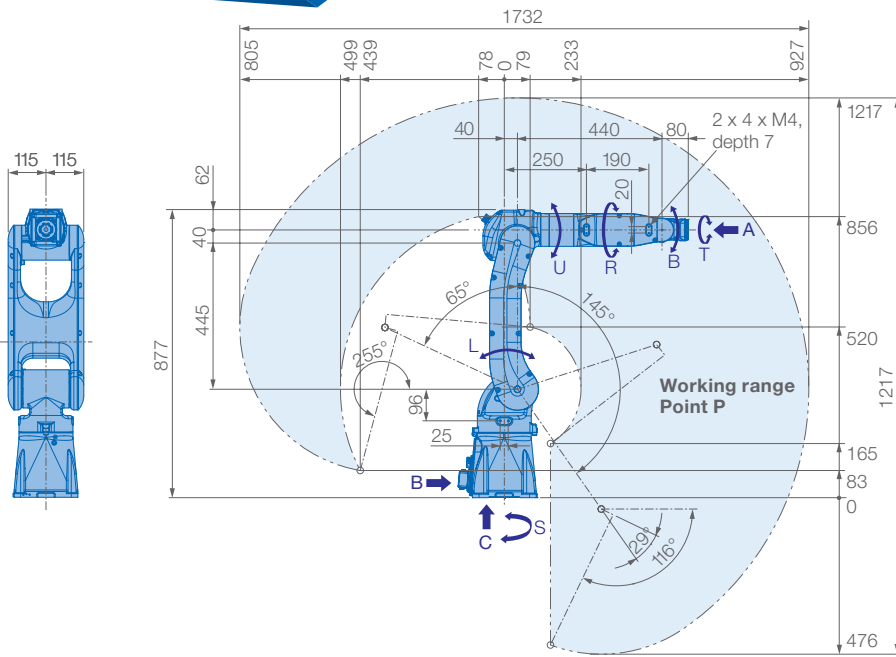
The MOTOMAN AR900 is a compact high-speed 6-axis robot which provides accurate performance to achieve optimal results in extremely difficult conditions and especially for the high demands of arc welding applications.

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.

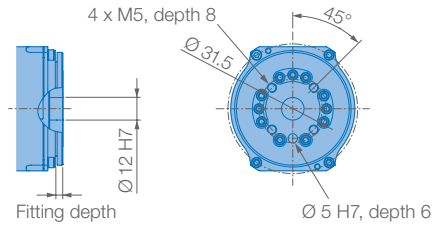
The slim, straight and symmetrical arm design minimizes interference with peripherals even in small workspaces. The MOTOMAN AR900 is easy to clean and well protected (by protection class IP67) against dust or coolants. Cable routing is possible from the side of the robot socket or from the bottom through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

## KEY BENEFITS

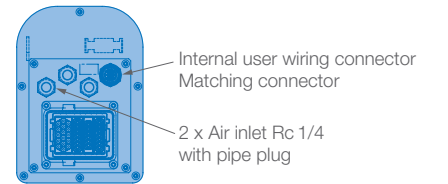
- Compact, fast and accurate
- High acceleration
- Protection class IP67
- Less interferences due to optimized design
- Simple integration, installation and maintenance



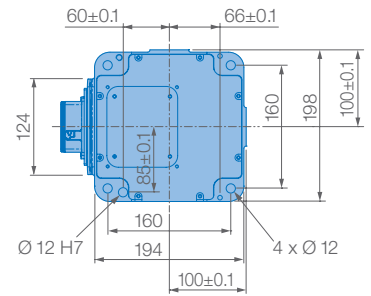
## View A



## View B



## View C

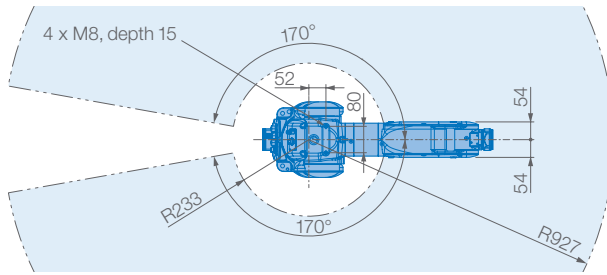


Mounting options: Floor, ceiling, wall, tilt\*

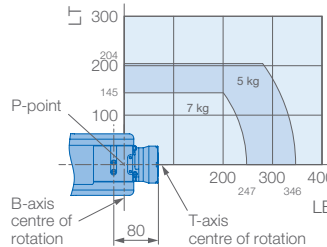
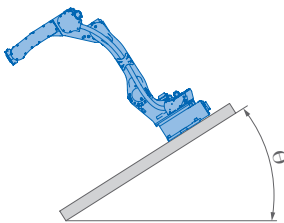
Protection class: IP67

\* tilt with condition of angle – see table below

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



## Allowable wrist load



## Specifications AR900

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m <sup>2</sup> ]	Controlled axes	6
S	$\pm 170$	375	–	–	Max. payload [kg]	7
L	+145/–65	315	–	–	Repeatability [mm]	$\pm 0.03^*$
U	+190/–70	410	–	–	Max. working range R [mm]	927
R	$\pm 190$	550	17	0.5	Temperature [°C]	0 to +45
B	$\pm 135$	550	17	0.5	Humidity [%]	20 – 80
T	$\pm 360$	1000	10	0.2	Weight [kg]	34
					Power supply, average [KVA]	1**

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

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YR-1-06VX7-A00  
A-09-2019, A-No. 207074

All drawing dimensions in mm. Technical data may be subject to change without previous notice. Please request detailed drawings at robotics@yaskawa.eu.com.

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