

The 6-axis MOTOMAN-MA1800 is remarkable for its excellent performance in all applications. In addition to welding, the robot can also be used for other tasks such as handling applications. All supply lines are routed through the upper part of the arm and the wrist axes of the robot in order to reduce interference contours and enlarge the possible working range. A payload capacity of 15 kg allows for a large field of applications of the 6-axis robot. The media hose package is routed inside the wrist and thus protected thereby ensuring better accessibility to the devices and work-pieces. The optimized supply line system considerably extends the durability of the cables and hoses. In addition to this, the whiplash effect of conventional supply lines could be completely eliminated. Additionally, the possible number of robots in the production cells can be increased significantly. Defined interference contours enable synchronous cooperation of several robots in a minimum of space.

**NEW GENERATION!  
DX100**

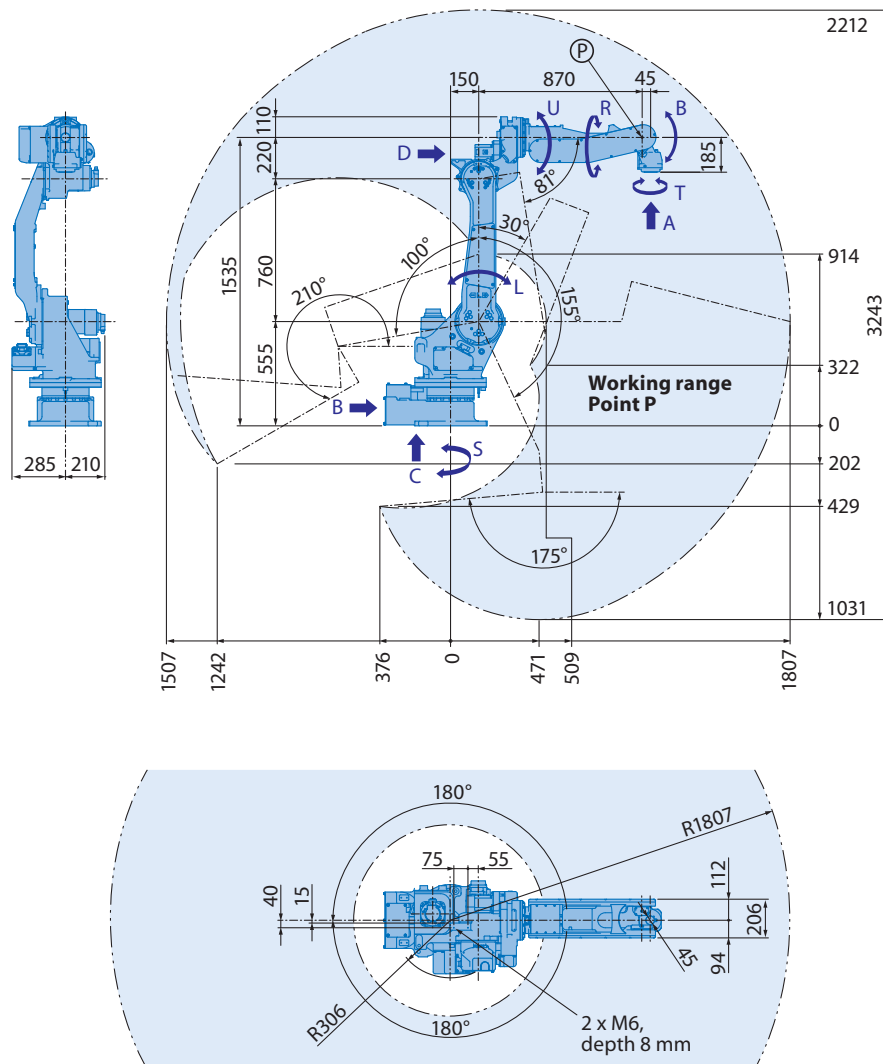


### Key benefits

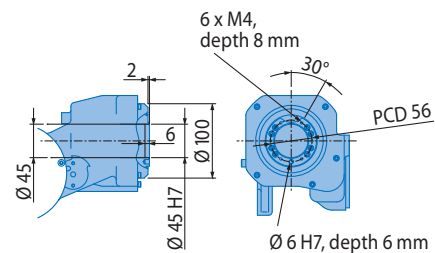
- Max. payload of 15 kg
- Max. working range of 1,807 mm
- Ideally suited to welding and handling applications
- Simpler programming and installation
- The world's fastest in its class
- Complete media hose package is lead through the upper arm and the head axes of the robot

## MOTOMAN-MA1800

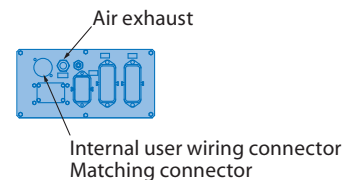
Shielded arc welding and handling



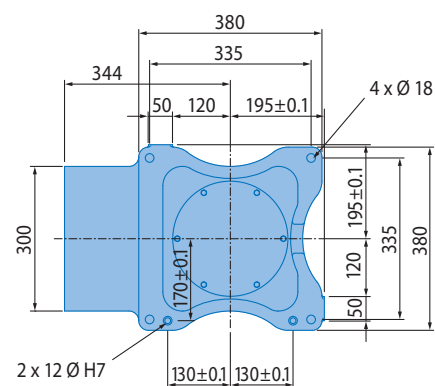
View A



View B

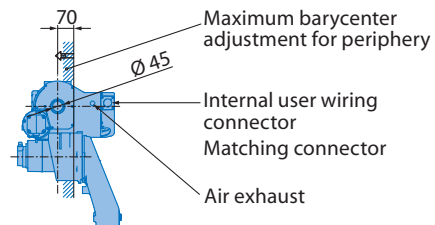


View C



Mounting options: Floor, ceiling, wall

View D



All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings at [info@motoman.de](mailto:info@motoman.de) – MA1800, A-09-2009

## Specifications MA1800

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg x m <sup>2</sup> ]	Controlled axes	6
S	±180	195	–	–	Max. payload [kg]	15
L	+155/-100	175	–	–	Repet. pos. accuracy [mm]	±0.08
U	+210/-175	190	–	–	Max. working range [mm]	R = 1807
R	±175	380	38.6	1.04	Temperature [°C]	0 to +45
B	+180/-45	340	38.6	1.04	Humidity [%]	20 – 80
T	±200	560	7.35	0.04	Weight [kg]	380
					Power supply, average [KVA]	5