

MOTOMAN HD8

Industrial Robot in Hygienic Design



The new 6-axis high-performance robots from the MOTOMAN HD Series were developed in collaboration with the Fraunhofer Institute for Manufacturing Engineering and Automation IPA for use in hygienic and cleanroom environments.

With its modern design, the HD Series meets the strict standards for applications in the food, life sciences, laboratory automation, medical and pharmaceutical sectors.

These robot models are particularly suitable for laboratory, humid and cleanroom environments, are easy to clean and resistant to commonly used disinfectants and disinfection processes.

The product can be operated with an intuitive Smart Pendant or conventional Teach Pendant.

As a MOTOMAN product, the HD8 robot guarantees the highest industrial quality standards and reliability for many years of 24/7 operation.

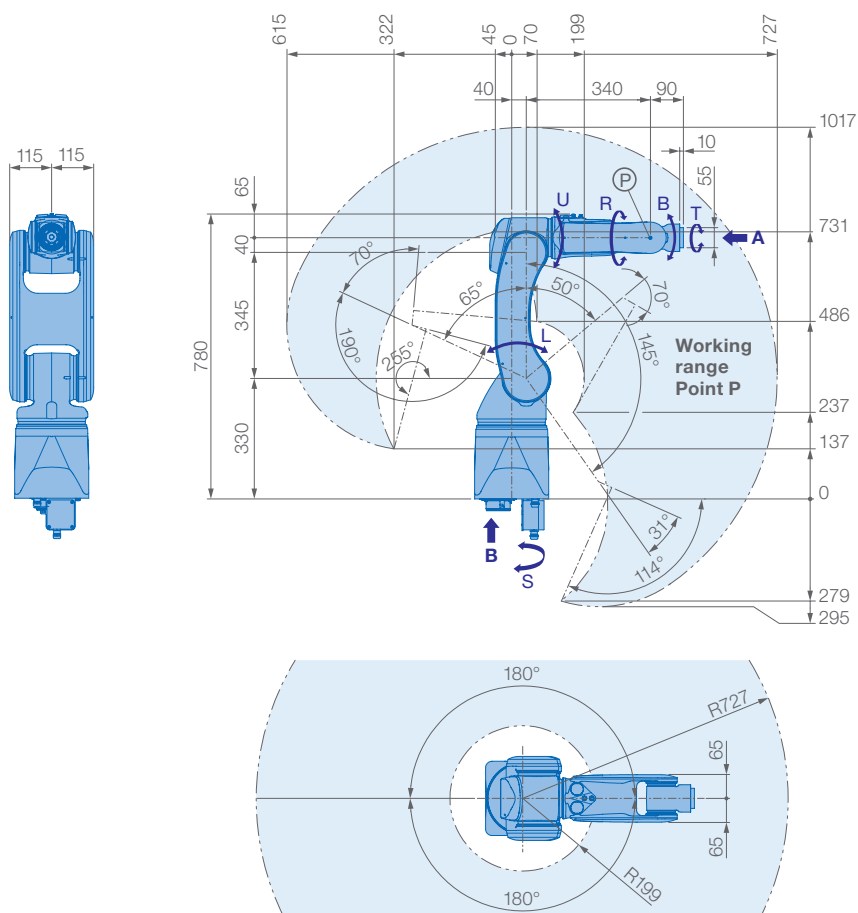
ADVANTAGES AT A GLANCE

- Hygienic Design: encapsulated housing, no protruding screws
- FDA-and EC 1935/2004-compliant materials with high chemical resistance and excellent cleanability
- Stainless steel flange
- Robot connections on the underside
- Internally routed cables and hoses, including Ethernet connections
- Hygienically designed axes and flange with O-ring groove
- Very low particulate emissions
- Food grade grease
- Protection rating IP69
- Compliant to Bioquell HPV processes
- D-Value tested

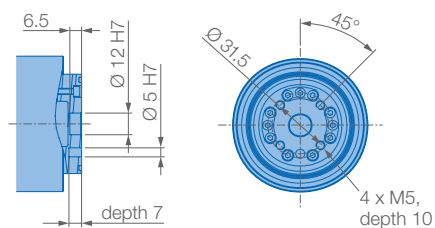
CERTIFICATIONS AND COMPLIANCE

- ISO 14644-1, Cleanroom class 4
- GMP conform: Class A
- EN 1672-2:2005+A1:2009
- ISO 14159
- IEC 60529

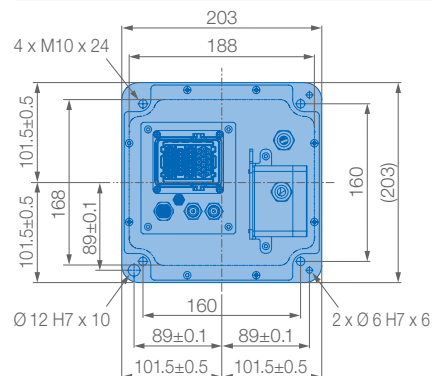




View A



View B



Mounting options: Floor, ceiling, wall, tilt*

IP Protection: IP69

* tilt with condition of angle – see table below

Allowable wrist load



Robot installation angle θ [deg.]	S-axis operating range [deg.]
$0 \leq \theta \leq 30$	± 180 degrees or less (no limit)
$30 < \theta \leq 35$	± 60 degrees or less
$35 < \theta \leq 45$	± 45 degrees or less
$45 < \theta$	± 30 degrees or less

Specifications HD8					
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes
S	± 180	455	–	–	6
L	$+145/-65$	385	–	–	Max. payload [kg]
U	$+190/-70$	520	–	–	Repeatability [mm]
R	± 190	550	17	0.5	Max. working range R [mm]
B	± 135	550	17	0.5	Temperature [°C]
T	± 360	1000	10	0.2	Humidity [%]
					Weight [kg]
					Power supply, average [kVA]

* Conforms to ISO 9283 ** Varies in accordance with applications and motion patterns Note: SI units are used for specifications.

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

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