YASKAWA

MOTOMAN HD8

Industrial Robot in Hygienic Design







The new MOTOMAN HD Series:

High-Performance 6-axis robots specifically designed for hygienic and food 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 robotic models are ideal for wet lab and cleanroom environments, are easy-to-clean and resistant to common disinfectant cleaners and 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.

KEY BENEFITS

- Hygienic Design: Encapsulated housing, no protruding screws
- Robot connectors on the bottom
- Internal cable routings including ethernet connectivity
- Hygienically designed axes and flange with O-ring groove
- Low airborne particle generation
- Food Grade Grease
- IP69K protection class

CLEANABILITY

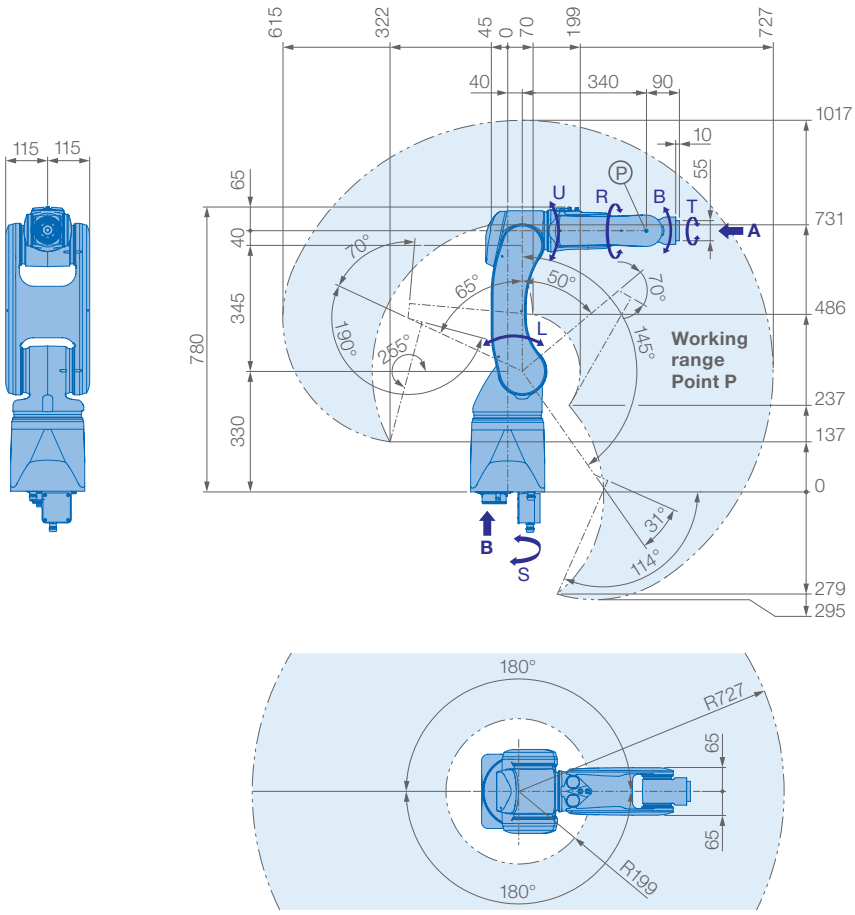
- Special coating with excellent mechanical and chemical resistance
- FDA certified surface materials
- Antimicrobial, smooth surface
- Selected and approved axle sealing design and material

New generation Sigma-7

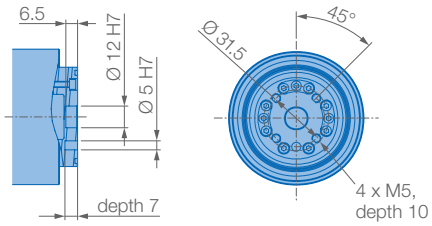
Controlled by YRC1000

Controlled by YRC1000 micro

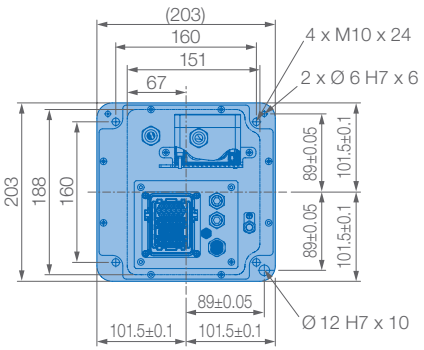
MOTOMAN HD8



View A



View B

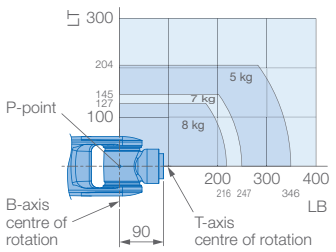


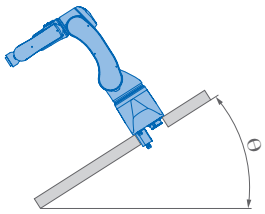
Mounting options: Floor, ceiling, wall, tilt*

IP Protection: IP69K

* tilt with condition of angle – see table below

Allowable wrist load





Robot installation angle Θ [deg.]	S-axis operating range [deg.]
0 ≤ Θ ≤ 30	±180 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 HD8						
Axes	**Maximum motion range [°]**	**Maximum speed [°/s]**	**Allowable moment [Nm]**	**Allowable moment of inertia [kg · m²]**	**Controlled axes**	6
					Max. payload [kg]	8
S	±180	455	–	–	**Repeatability [mm]**	±0.01*
L	+145/–65	385	–	–	**Max. working range R [mm]**	727
U	+190/–70	520	–	–	**Temperature [°C]**	0 to +45
R	±190	550	17	0.5	**Humidity [%]**	20 – 80
B	±135	550	17	0.5	**Weight [kg]**	45
T	±360	1000	10	0.2	**Power supply, average [kVA]**	1**

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

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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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