

MOTOMAN HD7

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 HD7 robot guarantees the highest industrial quality standards and reliability for many years of 24/7 operation.

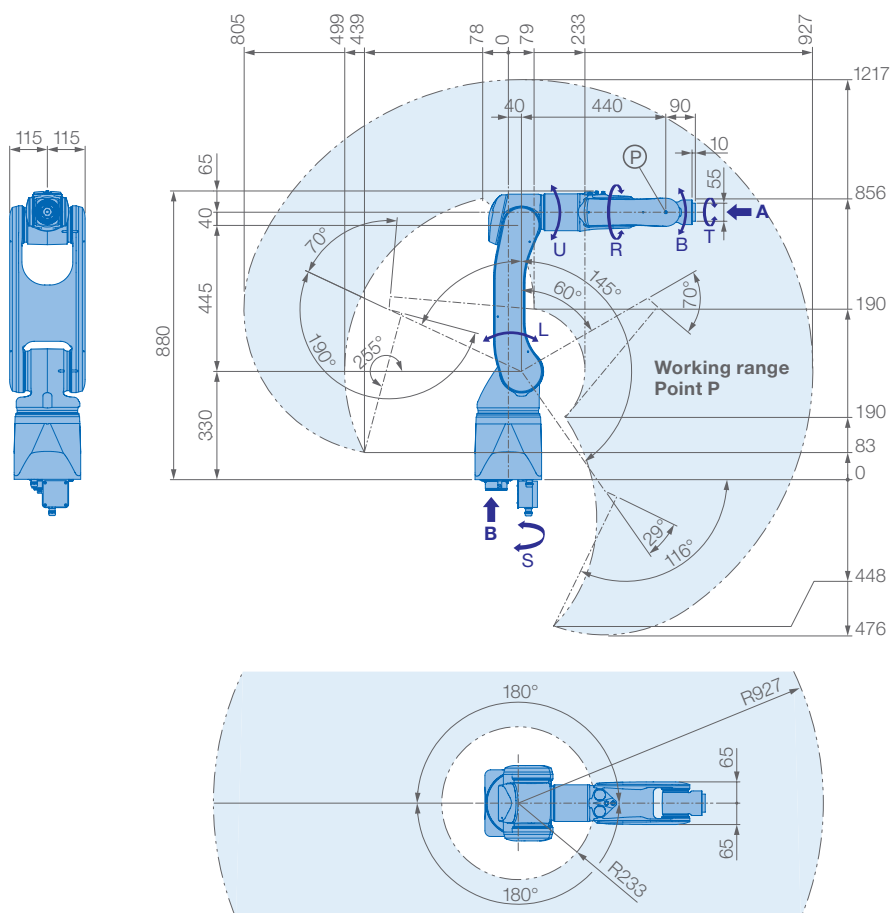
KEY BENEFITS

- 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

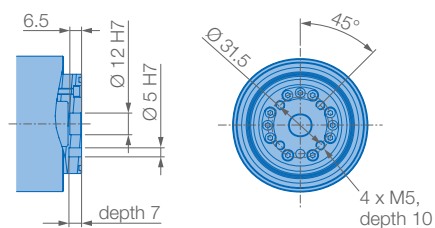
CLEANABILITY

- Special coating with excellent mechanical and chemical resistance
- FDA certified surface materials
- Antimicrobial, smooth surface
- Washdown with H₂O₂ and other detergents
- Selected and approved axle sealing design and material

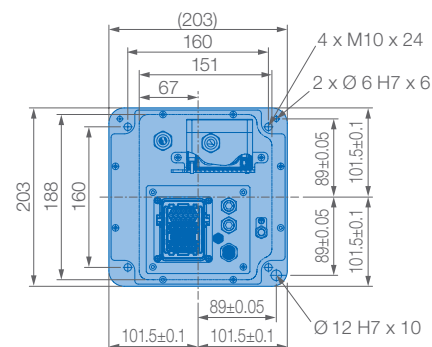




View A



View B

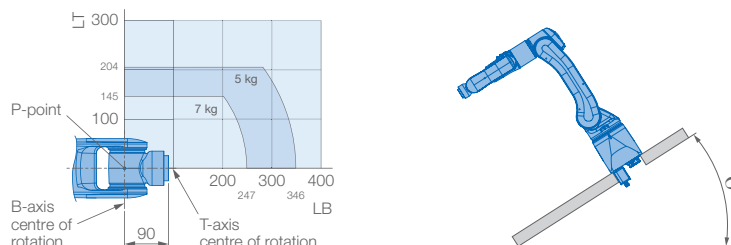


Mounting options: Floor, ceiling, wall, tilt*

IP Protection: IP69K

* tilt with condition of angle – see table below

Allowable wrist load



Robot installation angle θ [deg.]	S-axis operating range [deg.]
$0 \leq \theta \leq 30$	± 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 HD7						
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m ²]	Controlled axes	6
S	± 180	375	–	–	Max. payload [kg]	7
L	$+145/-65$	315	–	–	Repeatability [mm]	$\pm 0.02^*$
U	$+190/-70$	410	–	–	Max. working range R [mm]	927
R	± 190	550	17	0.5	Temperature [°C]	0 to +45
B	± 135	550	17	0.5	Humidity [%]	20 – 80
T	± 360	1000	10	0.2	Weight [kg]	47
					Power supply, average [kVA]	1**

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

Yaskawa Europe GmbH

Robotics Division
Yaskawastraße 1
85391 Allershausen
Germany

Tel. +49 (0) 8166 90-0
robotics@yaskawa.eu
www.yaskawa.eu



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