MOTOMAN NEXT
Redefining Adaptive Robotic Automation

YASKAWA

MOTOMAN NEX10

Universal handling robot for adaptive, AI-based automation

With a payload of 10 kg and a reach of 1,101 mm, the compact NEX10 manipulator is the right fit for a wide range of adaptive handling and assembly tasks. As part of the MOTOMAN NEXT platform, it is suitable for automation in which robots use sensors (e.g., cameras, force sensors) to detect, understand, evaluate, and autonomously respond to new situations and workpiece variants.

MOTOMAN NEXT integrates classic robot control with an NVIDIA-based control module (ACU), offering all the possibilities of the classic signal-based automation world (OT) and the data-based IT world on one single platform. Modern software engineering tools (by Yaskawa, NVIDIA, ROS 2 community), an open LINUX Docker environment, and services provided by Yaskawa give programmers complete freedom to efficiently and successfully deploy AI robotics applications in the field.

The NEX10 manipulator features newly designed high-inertia robot servo drives from Yaskawa's ∑10 generation, which combine high drive dynamics with outstanding absolute accuracy – for exact correspondence between the real and virtually planned worlds including automatic path planning or precise sensor guidance.

Integrated media and Ethernet cables (Cat6) in the robot arm supply intelligent plug-and-play actuators or cameras on the robot flange, for example, without the need of external media packages along the robot arm.

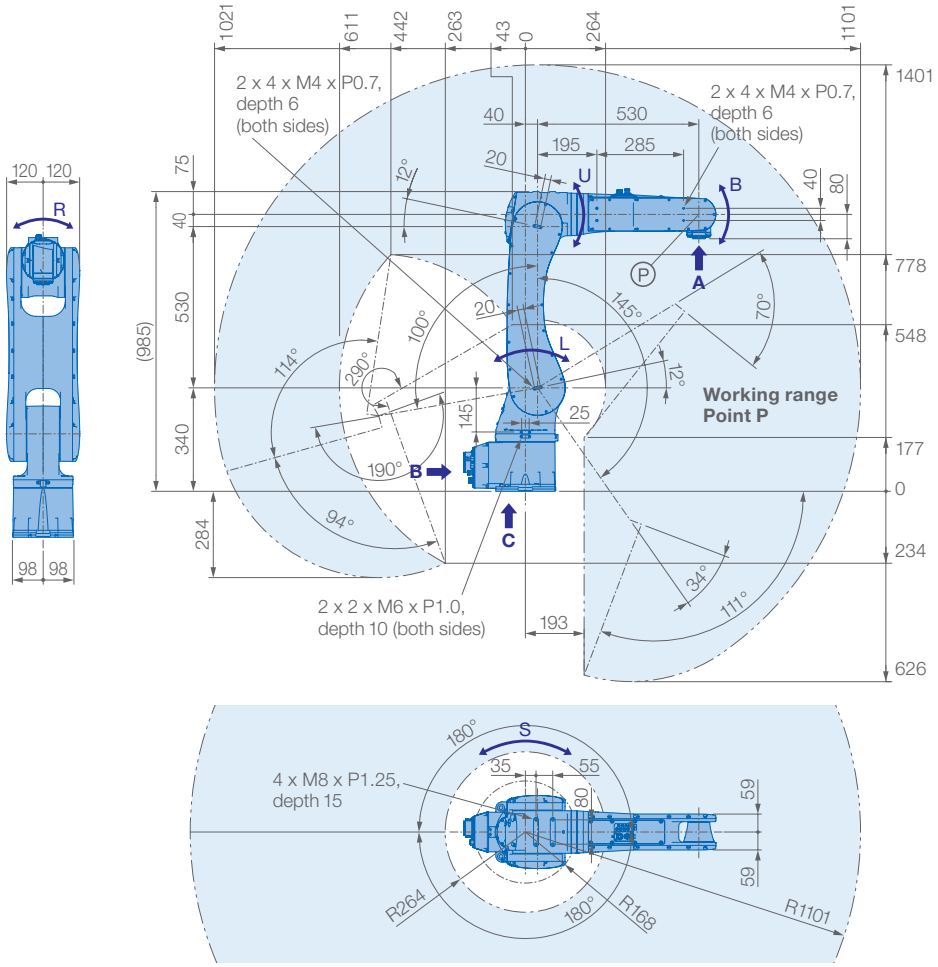
KEY FEATURES

- Universal load capacity and working range (up to 10 kg / 1,101 mm)
- High motion performance and agile servo control (new high inertia servo drives)
- Outstanding positioning / absolute accuracy
- Slim design with small installation area
- Integrated Ethernet and media cables, options for cable routing
- IP67-protected housing

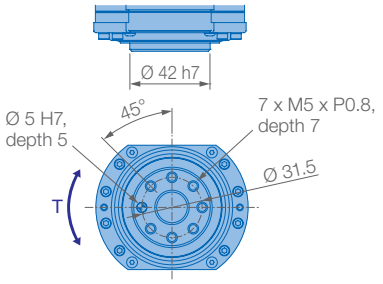
Controlled by
YNX1000

www.yaskawa.eu

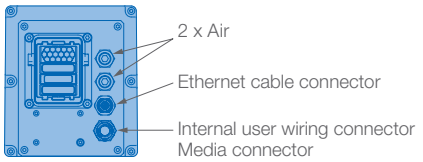
MOTOMAN NEX10



View A



View B



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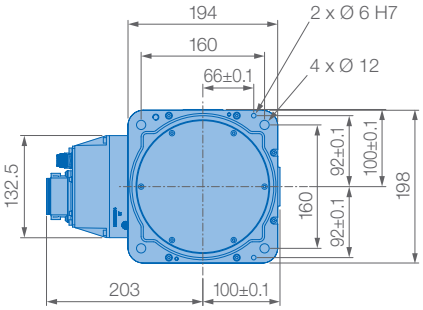
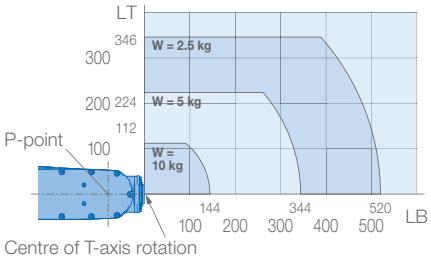
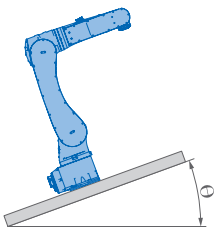


Mounting options: Floor

IP Protection: IP67 (all axes)

Allowable wrist load





Robot inclination angle Θ [deg.]	S-axis operating range [deg.]
0 ≤ Θ ≤ 30	±180 max.
30 < Θ ≤ 35	±60 max.
35 < Θ ≤ 45	±45 max.
45 < Θ	±30 max.

Specifications NEX10						
Axes	**Maximum motion range [°]**	**Maximum speed [°/s]**	**Allowable moment [Nm]**	**Allowable moment of inertia [kg · m²]**	**Controlled axes**	6
					Max. payload [kg]	10
S	±180	300	–	–	**Repeatability [mm]**	±0,015
L	+145/–100	250	–	–	**Max. working range R [mm]**	1101
U	+190/–70	340	–	–	**Temperature [°C]**	0 to +45
R	±190	500	22	0.9	**Humidity [%]**	20 – 80
B	+225/–45	470	22	0.9	**Weight [kg]**	58
T	±360	800	11	0.3	**Power supply, average [kVA]**	1

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YR-N1-06VX10-C00
A-10-2025, A-No. 231081

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