


Item \ Model		MOTOMAN NEXT-NEX7
Configuration		Vertically articulated
Degree of freedom		6
Payload	Wrist part	7kg
	On U-arm (*1)	1kg
Repeatability (*2)		0.016
Range of motion	S-axis	-170° - +170°
	L-axis	-100° - +145°
	U-axis	-70° - +190°
	R-axis	-190° - +190°
	B-axis	-44° - +224°
	T-axis	-360° - +360°
Maximum speed (*3)	S-axis	6.54rad/s, 375°/s
	L-axis	5.50rad/s, 315°/s
	U-axis	7.16rad/s, 410°/s
	R-axis	9.60rad/s, 550°/s
	B-axis	9.60rad/s, 550°/s
	T-axis	17.45rad/s, 1000°/s
Allowable moment	R-axis	17Nm (1.73kgfm)
	B-axis	17Nm (1.73kgfm)
	T-axis	10Nm (1.02kgfm)
Allowable inertia (GD ² /4)	R-axis	0.5kg・m ²
	B-axis	0.5kg・m ²
	T-axis	0.2kg・m ²
Mass		48kg
Protection rating		IP67
Clean rating (reference) (*4)		Equivalent to ISO class 5
Mounting method (*5)		Floor-mounted, Wall-mounted, Tilt-mounted, Ceiling-mounted
Ambient conditions	Temperature	0°C - +45°C
	Humidity	20%RH-80%RH (Non-condensing)
	Vibration acceleration	4.9m/s ² (0.5G) or less
	Altitude	1000m or less
	Flatness for installation	0.5mm or less
	Others	・Free from explosive and corrosive gas or liquid. ・Free from excessive electrical noise (plasma). ・Free from strong magnetic field.
Power requirements (*6)		1KVA
Applicable controller		YNX1000

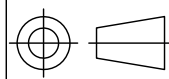
- *1 Load on the U-arm will vary depending on the load weight of the wrist part.
- *2 Repeatability conforms to ISO 9283.
- *3 The maximum speed in this table is the available maximum value and will vary depending on the load, posture, or range of motion.
- *4 The clean rating is for reference and not guaranteed.
- *5 When the manipulator is installed on a tilt or a wall, the motion of S-axis will be limited.
- *6 The power requirement value is obtained using YASKAWA's in-house measurement conditions and will vary depending on the load, motion pattern, or cycle time.
- *7 The posture in this drawing is in the home position.
- *8 There is a possibility the P-point cannot reach the  area in figure because the U-arm hits the manipulator cable.

Units: mm

Note:

- 1.All rights reserved.
- 2.Please note that the data is subject to be deleted without advance notice.
- 3.No warranty is given in relation to the data including the specification.
- 4.We are not responsible for any damages or loss caused by the use of the data.

FOR STUDY PURPOSE ONLY



SCALE 1 : 15

YASKAWA
株式会社 安川電機

Reference Drawing

TITLE	MOTOMAN	NEXT-NEX7
	DIMENSION	DIAGRAM

7	DRWN DATE	Sep.21.' 23
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DWG.NO. HW2380773

S I Z E	A 3
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