

Item		Model	MOTOMAN NEXT-NEX10
Configuration			Vertically articulated
Degree of freedom			6
Payload	Wrist part		10kg
	On U-arm (*1)		1kg
Repeatability (*2)			0.015mm
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		5.24rad/s,300°/s
	L-axis		4.36rad/s,250°/s
	U-axis		5.93rad/s,340°/s
	R-axis		8.72rad/s,500°/s
	B-axis		8.2rad/s,470°/s
	T-axis		13.96rad/s,800°/s
Allowable moment	R-axis		22Nm (2.24kgfm)
	B-axis		22Nm (2.24kgfm)
	T-axis		11Nm (1.12kgfm)
Allowable inertia (GD <sup>2</sup> /4)	R-axis		0.9kg・m <sup>2</sup>
	B-axis		0.9kg・m <sup>2</sup>
	T-axis		0.3kg・m <sup>2</sup>
Mass			58kg
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 <sup>2</sup> (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)		
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.

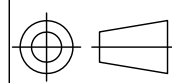
✓ User cable connector  
 ✓ LF13WBRB-20S  
 ✓ Main key (Left side)  
 ✓ Ethernet cable connector  
 ✓ M12 X-coding 8 contacts (Socket)  
 ✓ (Cap attached)  
 ✓ Key Position: Upper right side

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-NEX10
DIMENSION	DIAGRAM	

DRWN DATE	Oct.19' 23
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DWG.NO. HW2380778