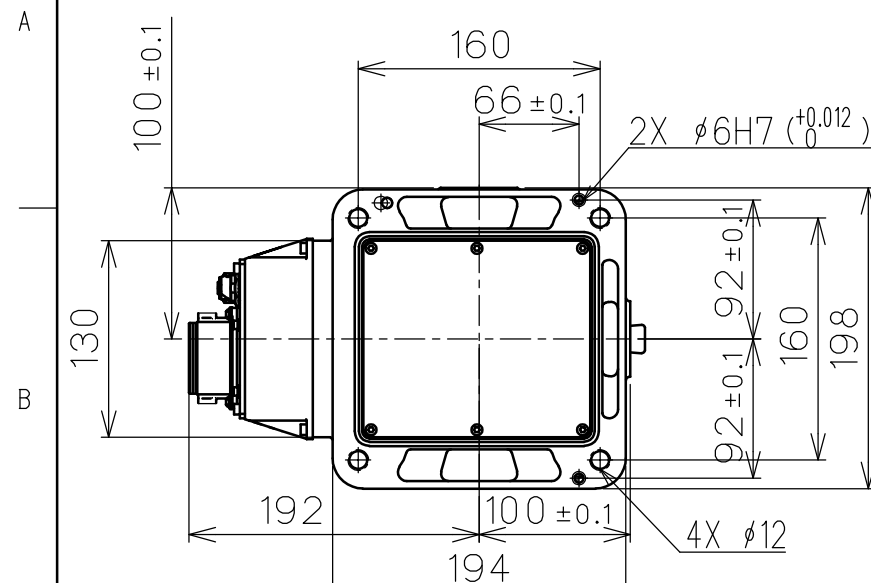
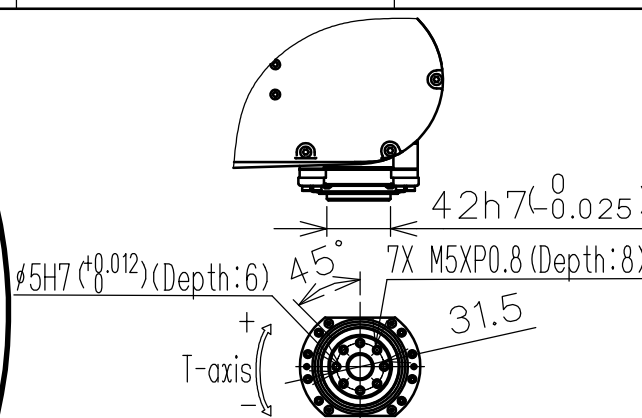
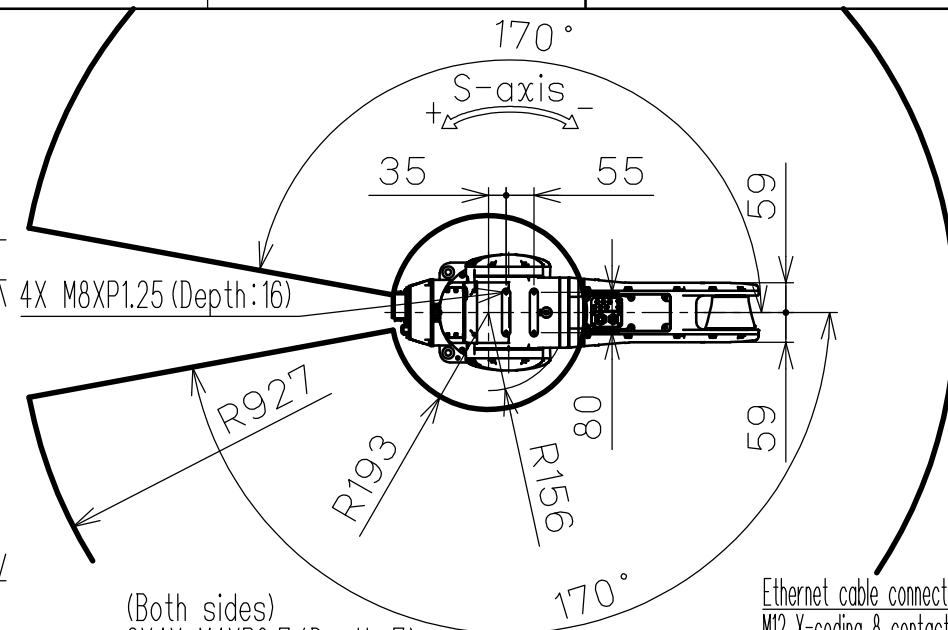


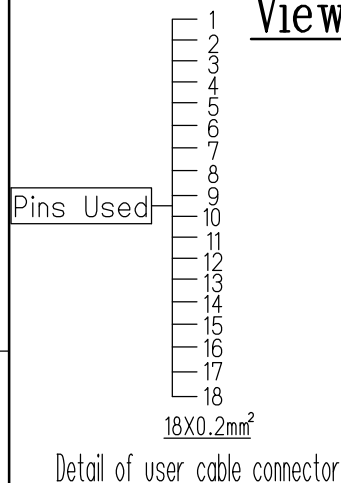
DWG.NO. HW2380773



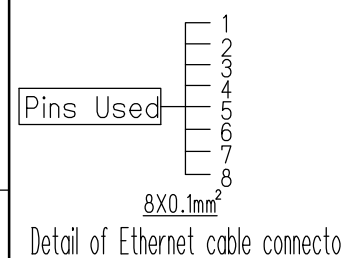
View A (Scale 1:5)



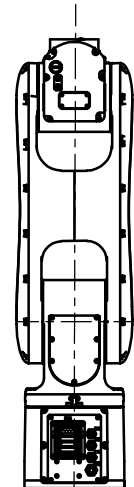
View B (Scale 1:5)



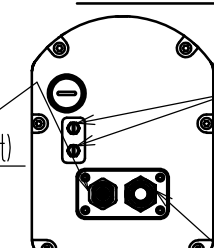
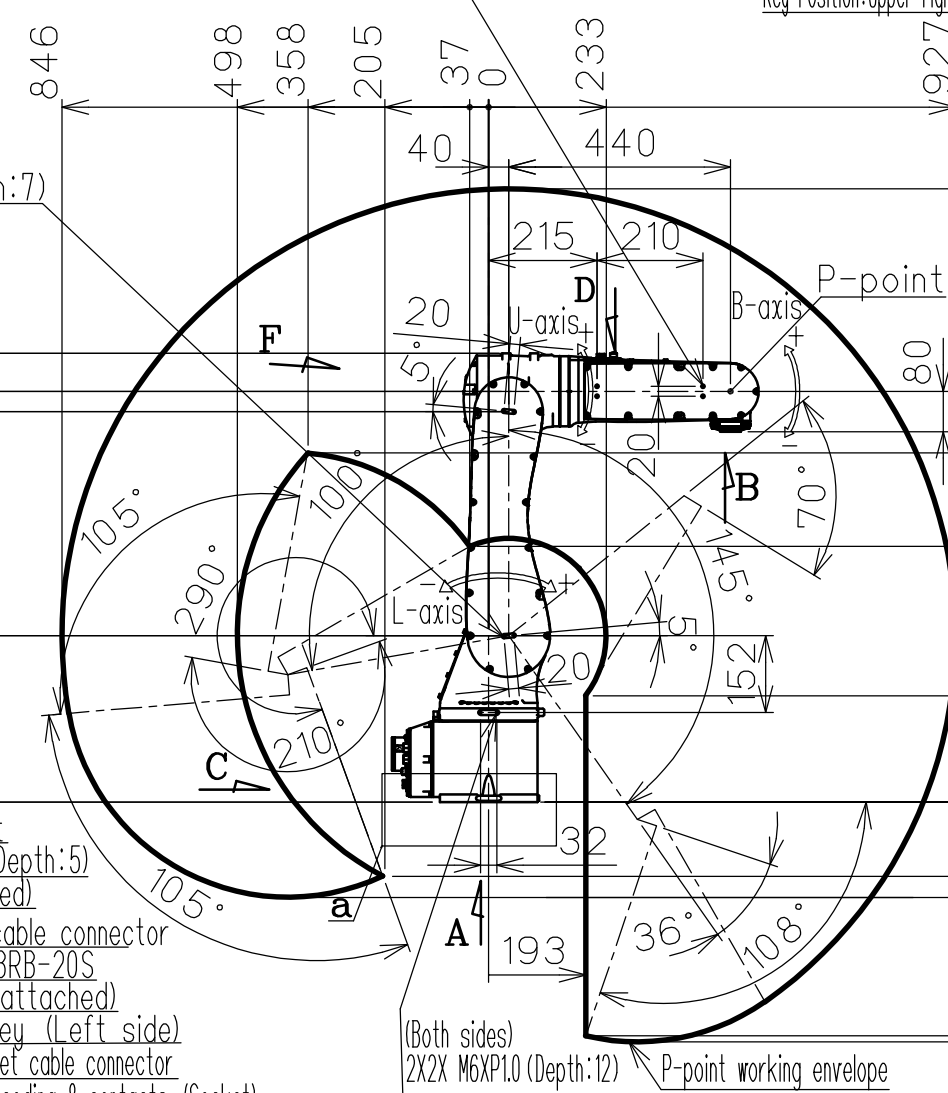
Detail of user cable connector



Detail of Ethernet cable connector

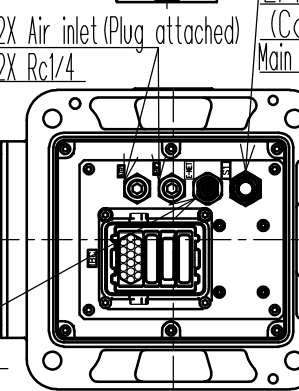
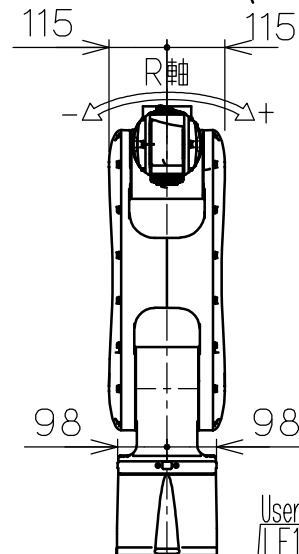


(Both sides)  
2X4X M4XP0.7 (Depth:7)

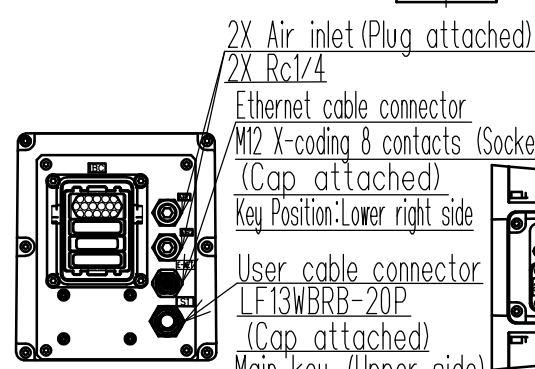


View F (Scale 1:5)  
(With the user cable from the back)

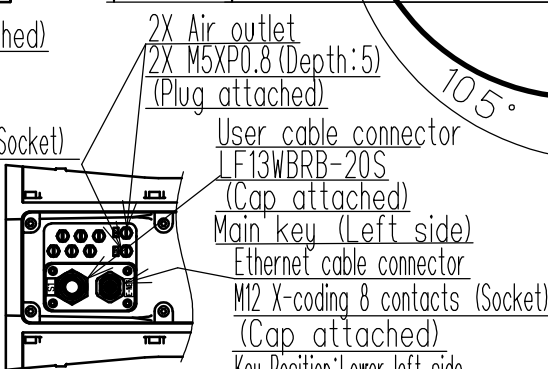
Part a  
(With the manipulator cable from the bottom)



View E (Scale 1:5)



View C (Scale 1:5)



View D (Scale 1:5)

Type	Specification
YR-N1-06VX7-A00	Standard

Ethernet cable connector  
M12 X-coding 8 contacts (Socket)  
(Cap attached)  
Key Position: Upper right side

Item	Model	MOTOMAN NEXT-NEX7
Configuration		Vertically articulated
Degree of freedom		6
Payload	Wrist part	7kg
	On U-arm (*1)	1kg
Repeatability (*2)		(Not measured)
Range of motion	S-axis	-170° - +170°
	L-axis	-100° - +145°
	U-axis	-70° - +190°
	R-axis	-190° - +190°
	B-axis	-45° - +225°
	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 (GD²/4)	R-axis	0.5kg·m²
	B-axis	0.5kg·m²
	T-axis	0.2kg·m²
Mass		50kg
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/s² (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.

Units: mm

Temporary Specifications: Sep.21.'23

1	2	3	4	5	6	7	8

**YASKAWA**  
株式会社 安川電機

作 図	Y.Kurahashi
照 査	M.Ito
承 認	H.Matsuura

TITLE MOTOMAN NEXT-NEX7  
DIMENSION DIAGRAM

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