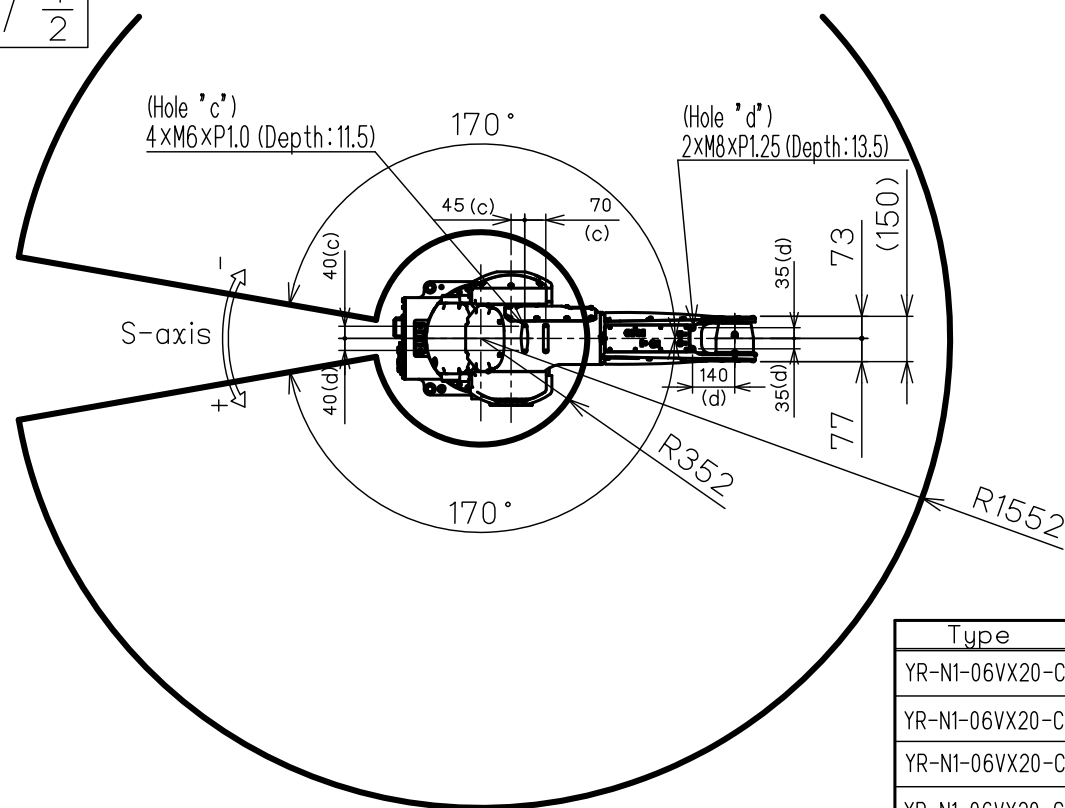
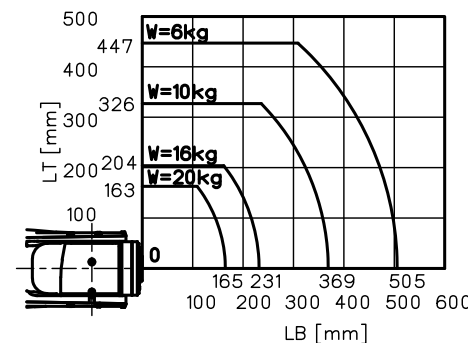
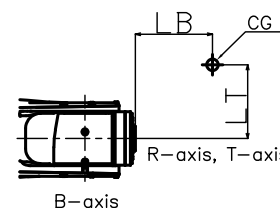


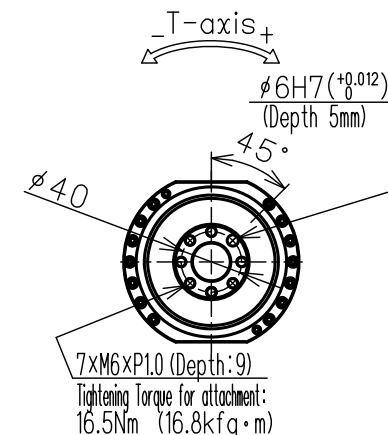
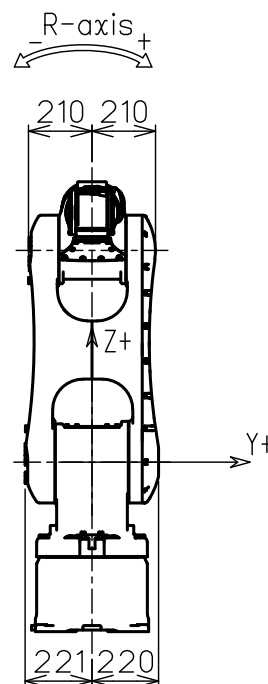
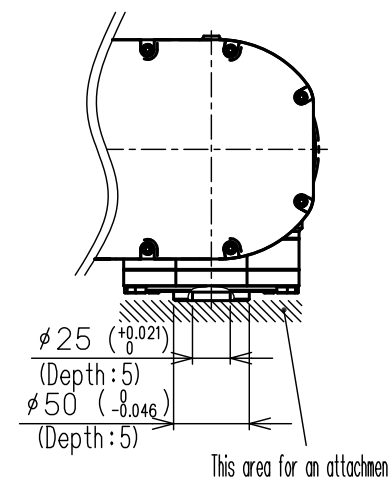
DWG.NO. HW2380607 1/2



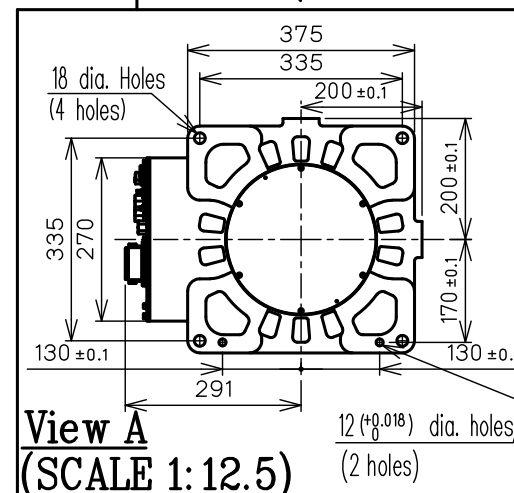
Allowable Wrist Load (SCALE 1:15)



Type	Specification	備考
YR-N1-06VX20-C00	Standard	Built-in Air Hoses, Internal User (4 wires), Internal User (20 wires), I/O (8 wires) and Ethernet cables
YR-N1-06VX20-C02	Anti-corrosive coat	
YR-N1-06VX20-C01	Standard	Built-in Air Hoses, Internal User (4 wires), Internal User (20 wires), I/O (8 wires) and Ethernet (2 sets) cables
YR-N1-06VX20-C03	Anti-corrosive coat	



View E (SCALE 1:5)



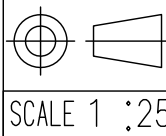
View A
(SCALE 1:12.5)

Item	Model	MOTOMAN NEXT-NEX20
Configuration		Vertically Articulated
Degree of Freedom		6
Payload	Wrist	20kg
	On Upper Arm (*1)	10kg
Repeatability (*2)		0.02mm
Range of Motion	S-Axis (Turning) (*3)	-170° - +170°
	L-Axis (Lower Arm)	-100° - +135°
	U-Axis (Upper Arm)	-80° - +180°
	R-Axis (Roll)	-200° - +200°
	B-Axis (Pitch/Yaw)	-45° - +225°
	T-Axis (Twist)	-360° - +360°
Maximum Speed	S-Axis	4.18rad/s, 240°/s
	L-Axis	4.18rad/s, 240°/s
	U-Axis	5.23rad/s, 300°/s
	R-Axis	7.50rad/s, 430°/s
	B-Axis	7.50rad/s, 430°/s
	T-Axis	15.70rad/s, 900°/s
Allowable Moment	R-Axis	52Nm (5.3kgfm)
	B-Axis	52Nm (5.3kgfm)
	T-Axis	32Nm (3.26kgfm)
Allowable Inertia (GD²/4)	R-Axis	2.2kg·m²
	B-Axis	2.2kg·m²
	T-Axis	1.2kg·m²
Approx. Mass		225kg
Protected Structure		All Axis : IP67
Cleanliness (Reference) (*5)		Equivalent to ISO class 5
Mouting Method (*3)		Floor-Wall-Tilt-Ceiling-mounted
Ambient Condions	Temperature	0°C to +45°C
	Humidity	20%RH to 80%RH (Non-Condensing)
	Vibration	4.9m/s² (0.5G) or Less
	Altitude	1000m or Less
	Flatness	0.5mm or Less
	Others	•Free from explosive and corrosive gas or liquid. •Free from electrical noise (Plasma). •Free from strong magnetic fields.
Power Requirements (*6)		2.0kVA
Applicable Controller		YNX1000

*1 Load on the Upper arm will vary depending on the load weight of the wrist part.
*2 Repeatability conforms to ISO 9283.
*3 Range of motion for S-axis will be limited when the manipulator is tilt- or wall-mounted.
*4 The maximum speed in this table is the available maximum value and will vary depending on the load, posture, or range of motion.
*5 The cleanliness class is for reference and not guaranteed.
*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 manipulator is in the home position on this drawing.
Unit : mm

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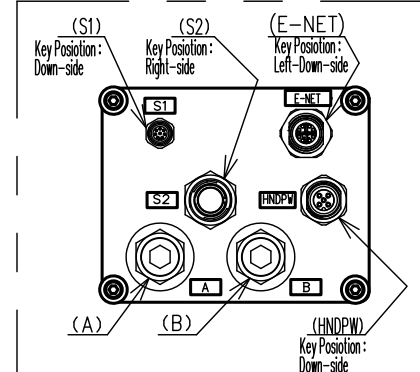
YASKAWA
株式会社 安川電機

Reference Drawing

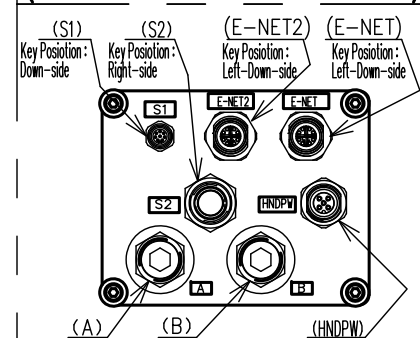
TITLE MOTOMAN NEXT-NEX20
DIMENSION DIAGRAM

DRWN DATE Nov.18.' 24
DWG.NO. HW2380607 1/2
SIZE A3

View B (SCALE 1: 3)

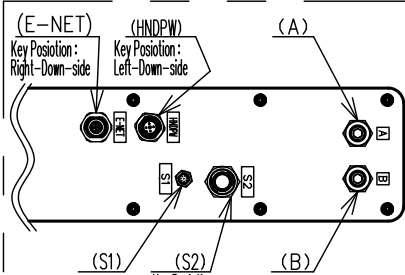


(Standard: YR-N1-06VX20-C00,C02)

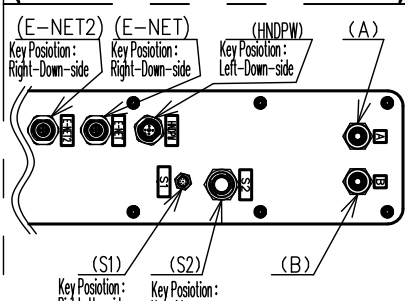


(Standard: YR-N1-06VX20-C01,C03)

View C (SCALE 1: 5)

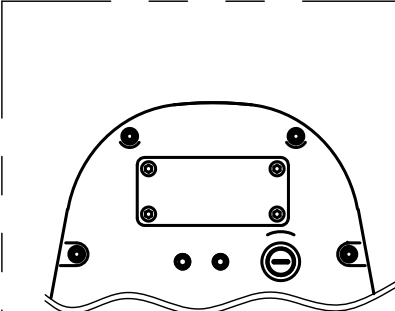


(Standard: YR-N1-06VX20-C00,C02)

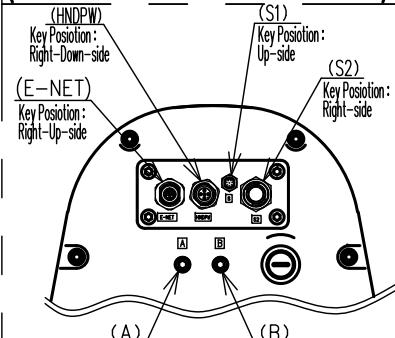


(Standard: YR-N1-06VX20-C01,C03)

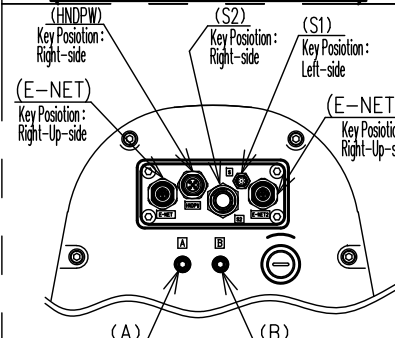
View D (SCALE 1: 5)



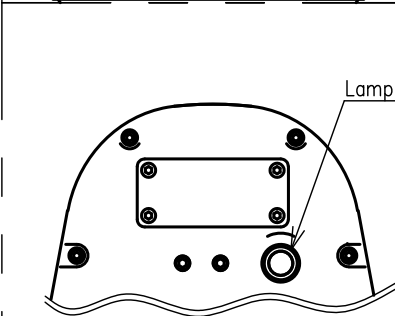
(Standard: YR-N1-06VX20-C00,C01,C02,C03)



(Option: Connector on Casing)
(YR-N1-06VX20-C00,C02)

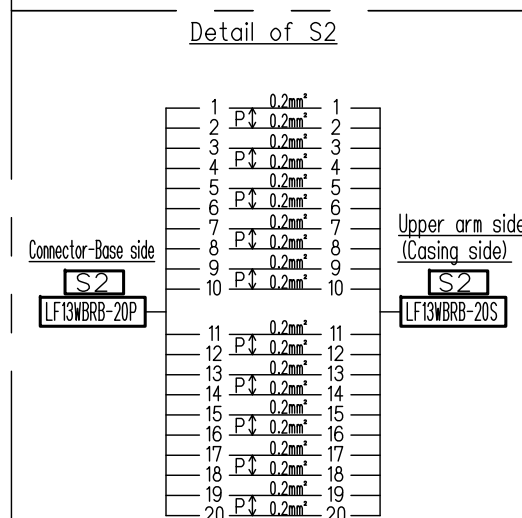
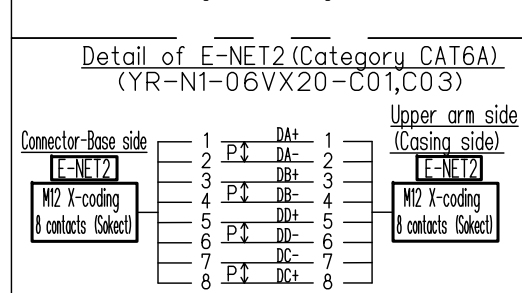
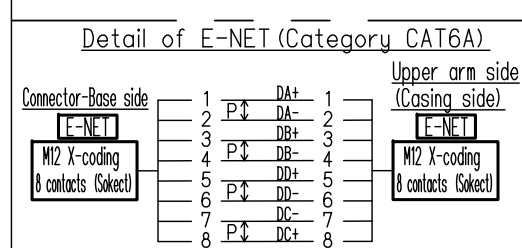
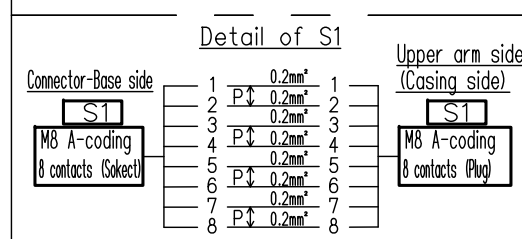
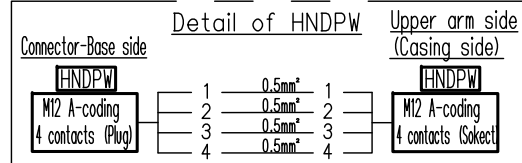


(Option: Connector on Casing)
(YR-N1-06VX20-C01,C03)



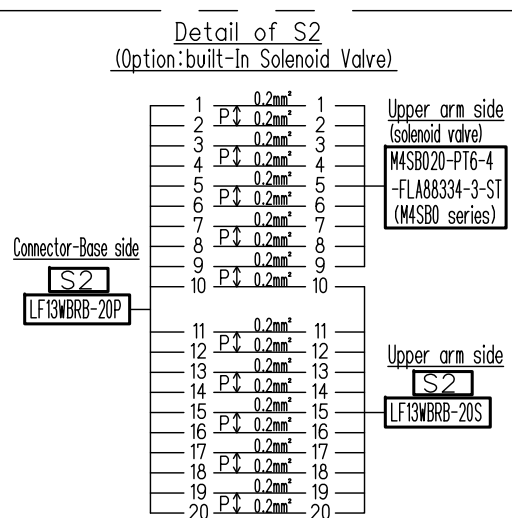
(Option: Lamp)
(YR-N1-06VX20-C00,C01,C02,C03)

Detail of Equipment cable



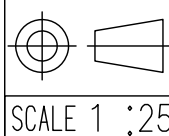
Equipment cable connector model/specifications

Connector Position	name	Manipulator side	the other side (Connector Prepared by USER)
• Upper arm side • Casing side (Option)	S1	I/O Cable Connector	M8 A-coding 8 contacts (Plug)
	S2	Internal User Cable Connector	LF13WBRB-20S
	HNDPW	Internal User Cable Connector	M12 A-coding 4 contacts (Socket)
	E-NET	Ethernet Cable Connector	M12 X-coding 8 contacts (Socket)
	E-NET2	Ethernet Cable Connector (YR-N1-06VX20-C01,C03)	M12 X-coding 8 contacts (Socket)
Connector-Base side	A	Air1 Outlet	Rc1/8 (with a plug)
	B	Air2 Outlet	Rc1/8 (with a plug)
	S1	I/O Cable Connector	M8 A-coding 8 contacts (Socket)
	S2	Internal User Cable Connector	LF13WBRB-20P
	HNDPW	Internal User Cable Connector	M12 A-coding 4 contacts (Plug)
Upper arm side (Option: built-in solenoid valve)	E-NET	Ethernet Cable Connector	M12 X-coding 8 contacts (Socket)
	E-NET2	Ethernet Cable Connector (YR-N1-06VX20-C01,C03)	M12 X-coding 8 contacts (Socket)
	A	Air1 Inlet	Rc3/8 (with a plug)
	B	Air2 Inlet	Rc3/8 (with a plug)
	Exhaust	Solenoid valve exhaust port	Rc1/8
1A 2A 3A 4A 1B 2B 3B 4B	Solenoid valve supply port	Tapped Holes M6 (pitch:0.8) (with a plug)	-



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株式会社 安川電機

Reference Drawing

TITLE MOTOMAN NEXT-NEX20
DIMENSION DIAGRAM

DRWN DATE Nov.18.' 24
DWG.NO.

HW2380607 $\frac{2}{2}$

SIZE A3