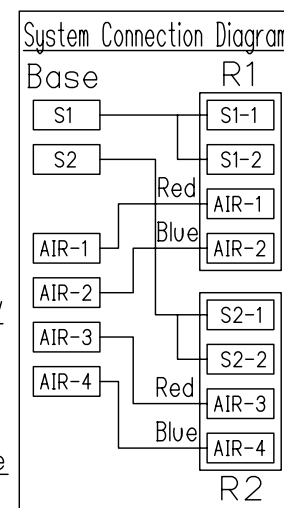
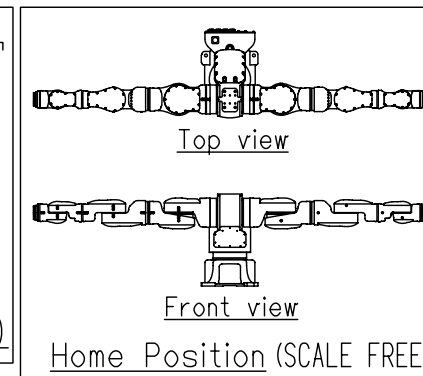
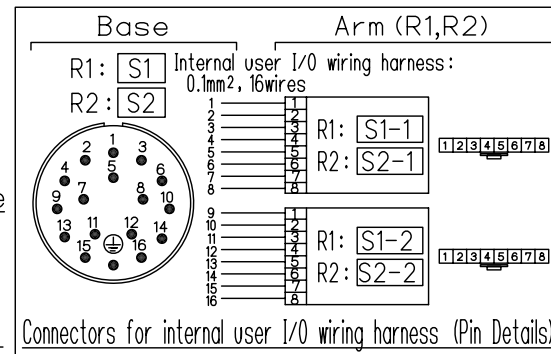
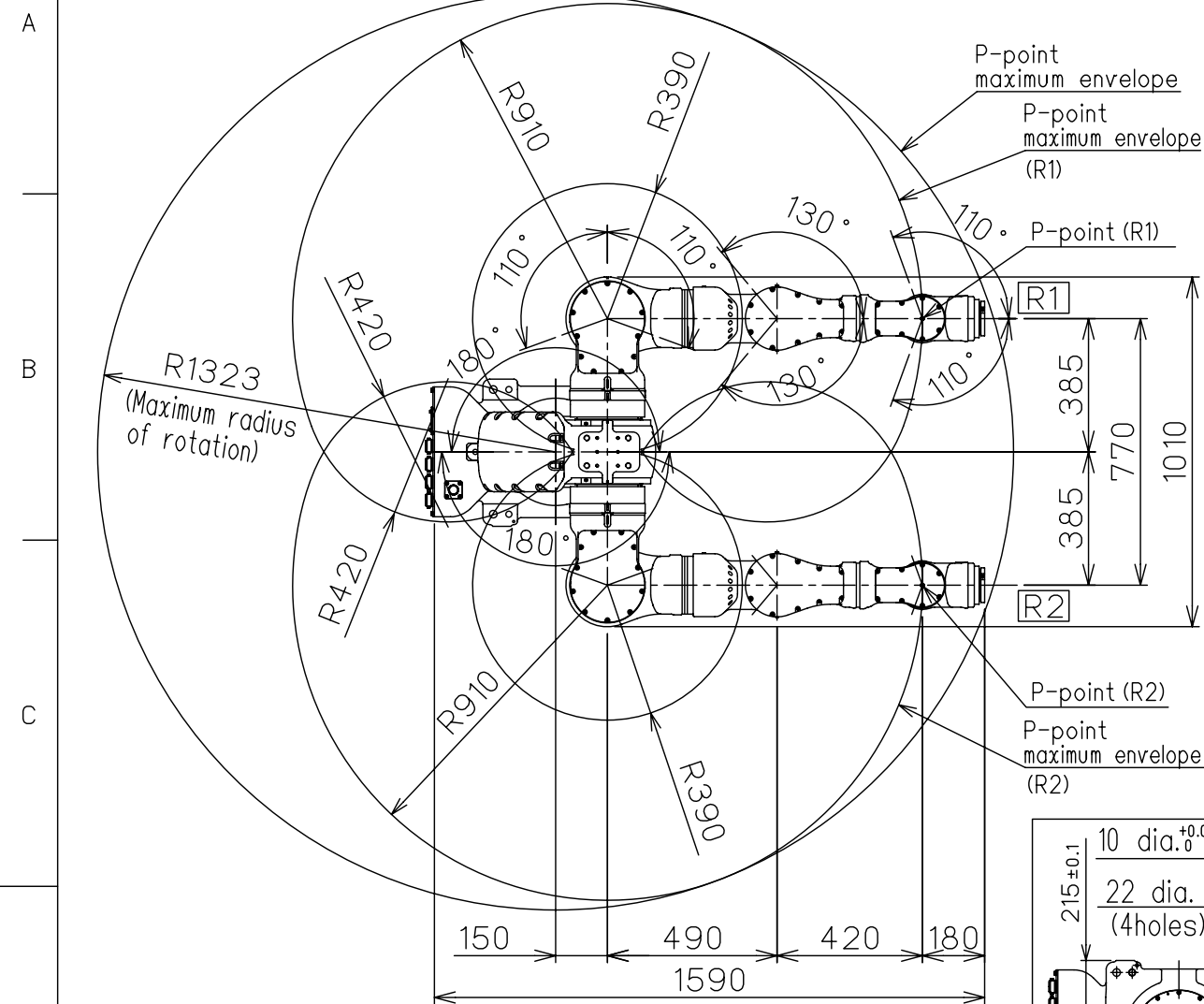


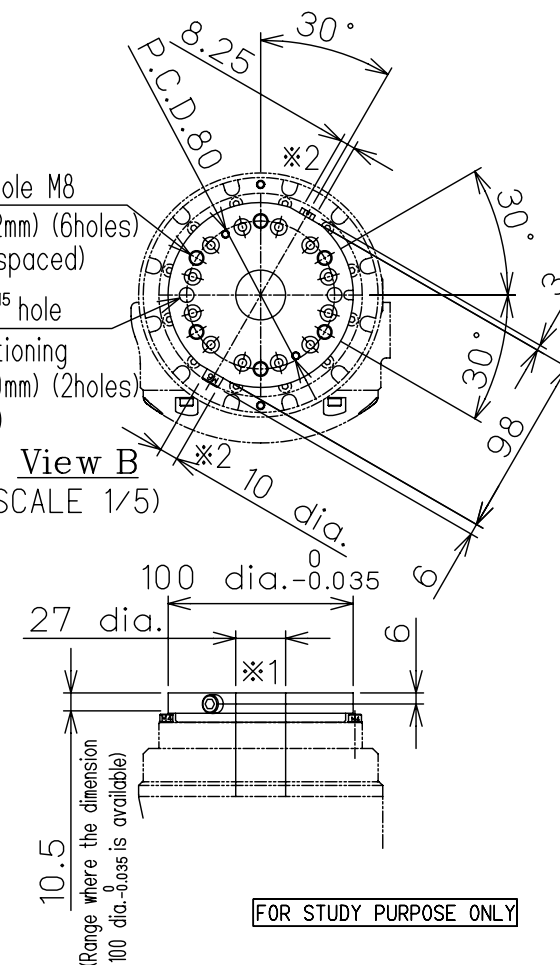
DWG.NO.HW0388641



Tapped hole M8 (depth:12mm) (6holes) (equally-spaced)

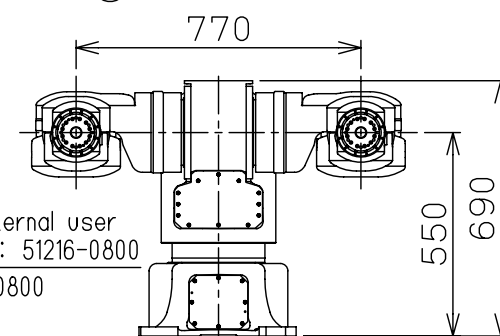
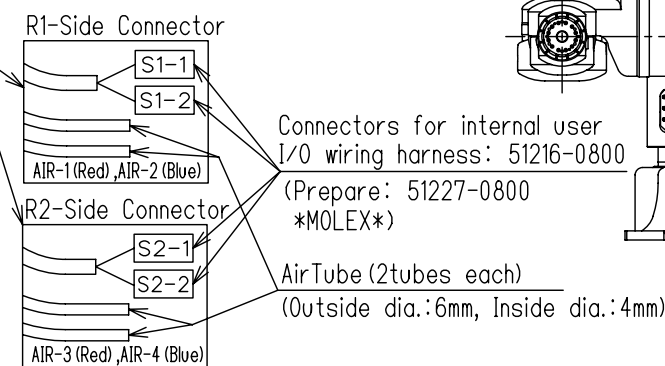
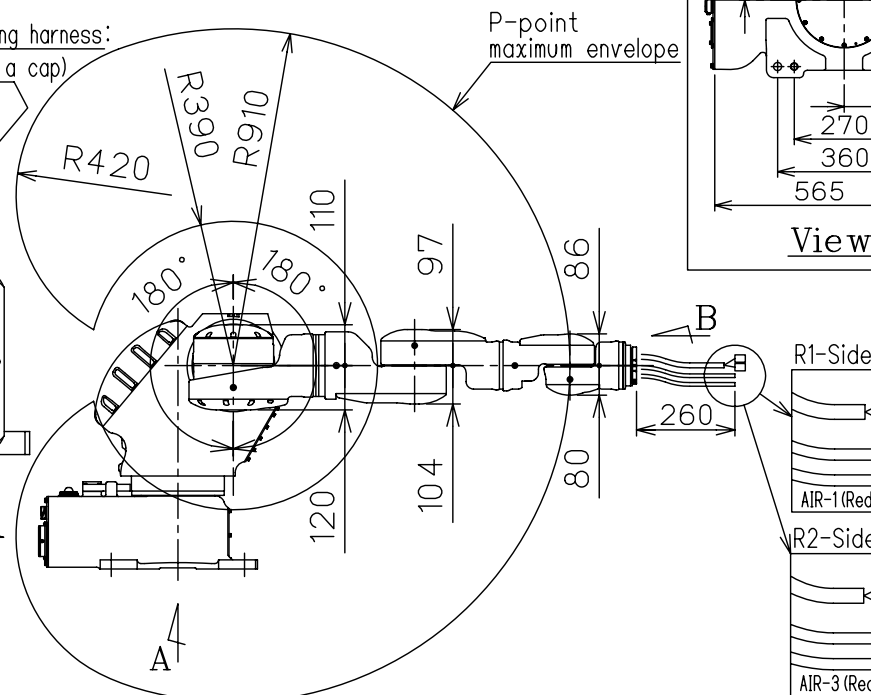
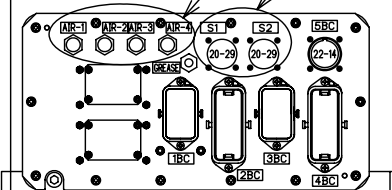
8 dia. $\phi^{+0.015}$ hole for positioning (depth:10mm) (2holes) (diagonal)

View B (SCALE 1/5)



Connector for internal user I/O wiring harness:
JL05-2A20-29PC (Pin Connector with a cap)
(Prepare socket connector:
JL05-6A20-29SC)

Air inlet (4 inlets):
Tapped hole PT3/8
with a pipe plug



Item	Model	MOTOMAN-SDA20
Configuration		Articulated
Degree of Freedom		7 axes for the left arm(R1); 7 axes for the right arm(R2); 1 turning axis
Payload		20kg/arm
Repetitive Positioning Accuracy *3		± 0.1 mm
Range of Motion	Rotation-axis	$\pm 180^\circ$
	S-axis (lifting)	$\pm 180^\circ$
	L-axis (lower arm)	$\pm 110^\circ$
	7th-axis (lower arm twist)	$\pm 170^\circ$
	U-axis (upper arm)	$\pm 130^\circ$
	R-axis (upper arm twist)	$\pm 180^\circ$
	B-axis (wrist pitch/yaw)	$\pm 110^\circ$
Maximum Speed	T-axis (wrist twist)	$\pm 180^\circ$
	Rotation-axis	2.18rad/s (125° /s)
	S-axis	2.27rad/s (130° /s)
	L-axis	2.27rad/s (130° /s)
	7th-axis	2.97rad/s (170° /s)
	U-axis	2.97rad/s (170° /s)
	R-axis	3.49rad/s (200° /s)
Allowable Moment	B-axis	3.49rad/s (200° /s)
	T-axis	6.98rad/s (400° /s)
	R-axis	58.8N·m (6.0kgf·m)
Allowable Inertia (GD ² /4)	B-axis	58.8N·m (6.0kgf·m)
	T-axis	29.4N·m (3.0kgf·m)
	R-axis	4.0kgf·m ²
Mass	B-axis	4.0kgf·m ²
	T-axis	2.0kgf·m ²
	R-axis	2.0kgf·m ²
Ambient Conditions	Temperature	380 kg
	Humidity	0~+40°C
	Vibration acceleration	20~80%RH
	Others	at constant temperature
Power Capacity		4.9m/s ² (0.5G) or less
		•Free from corrosive gas or liquid, or explosive gas
		•Free from exposure to water,oil,or dust
		•Free from excessive electrical noise (plasma)

SI units are used in this table. However, gravitational unit is used in ().
*3: Conformed to ISO9283

This drawing is applicable with following type

Type	Note
YR-SDA20-A00	Standard
YR-SDA20-A01	Drip-proof Spec.

*1: Each flange has a cable through hole.
When mounting equipment such as an attachment, ensure that no foreign objects including liquid, oil, or dust go into the hole.

*2: When 100 dia. part is used, pay attention to the screw & plug for T-axis grease replenishment.

The drip-proof specification has a hole on its wrist flange to pass cables as with the standard specification. When mounting equipment such as attachment, perform drip-proof treatment on the flange surface.

The optional waterproof wrist flange is available.

<NOTE> The connectors for internal user I/O wiring harness are not drip-proofed; depending on the ambient conditions, perform drip-proof treatment after connecting the wiring harness. (E.g., treating the connections with silicon tape, or connecting the wiring harness inside the drip-proof box.)