

DWG.NO. HW1385418

A

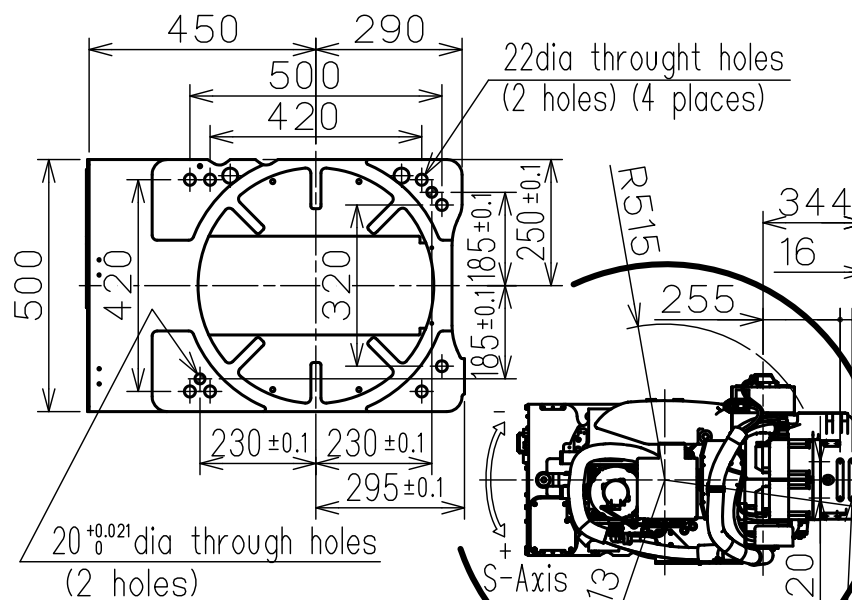
B

C

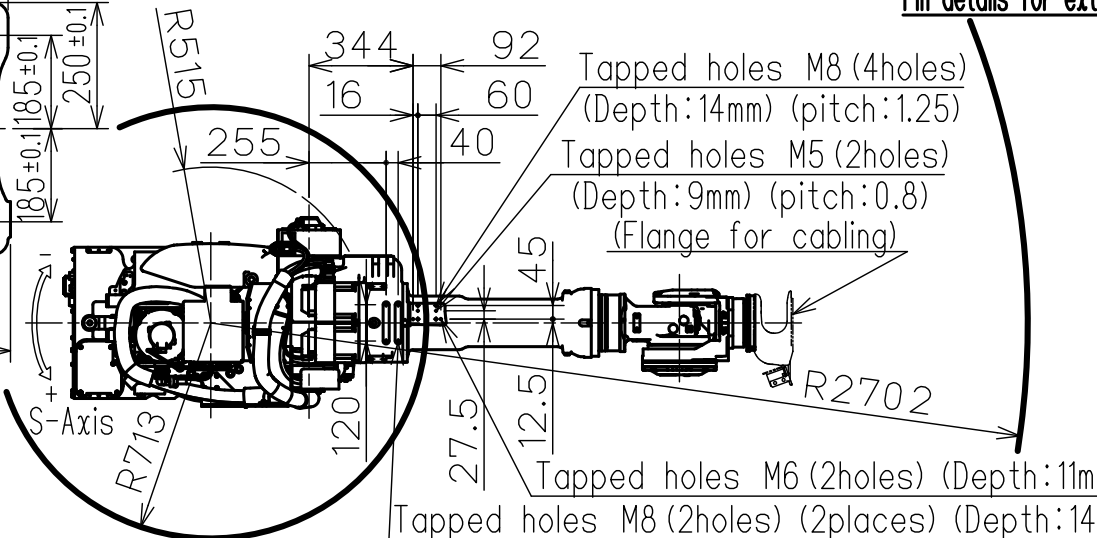
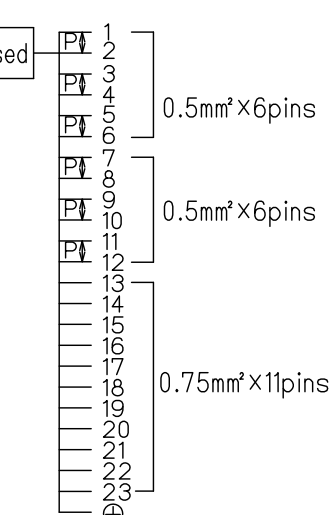
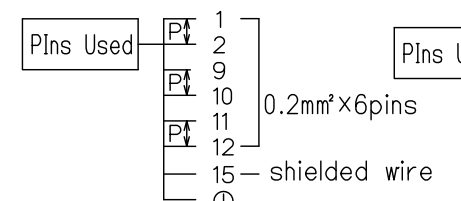
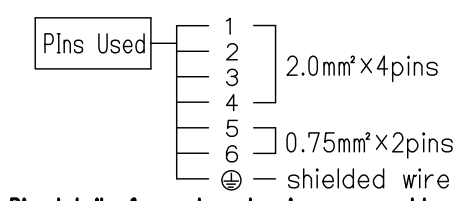
D

E

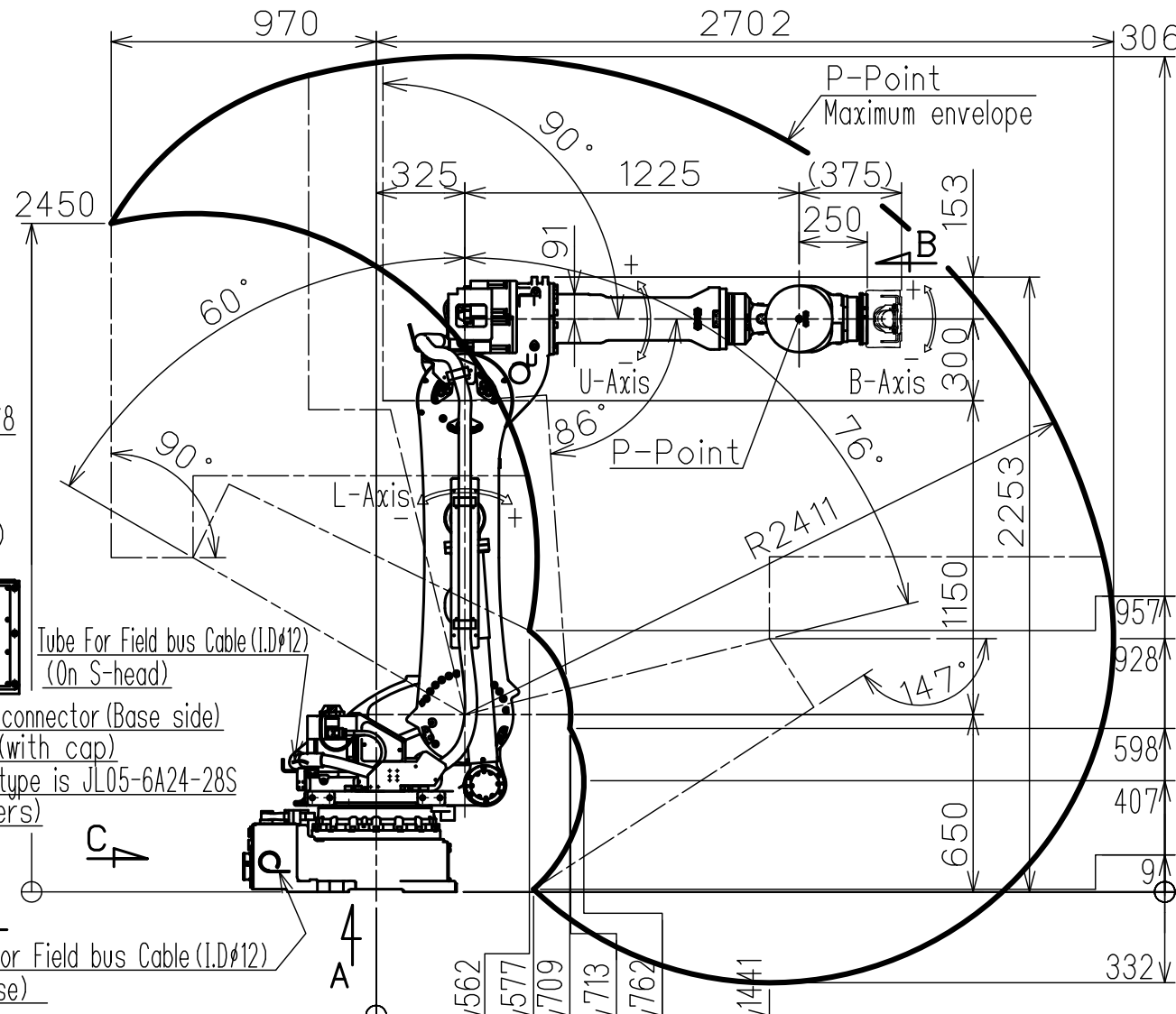
F



View A (Scale 1:15)

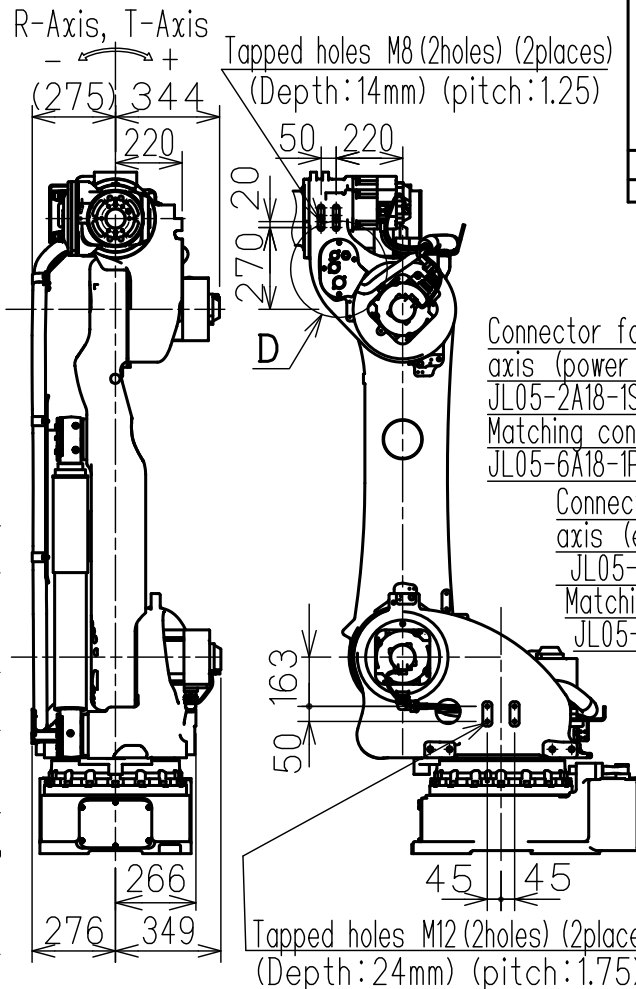


Pin details for internal user wiring harness (Casing side/Base side)



View C (Scale 1:15)

Type	Note
YR-1-06VX225-A00	STANDARD



View D (Scale 1:15)

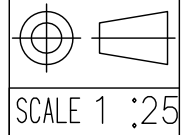
View B (Scale 1:10)

Item	Model	MOTOMAN-SP210
Flange for Cabling	not-equipped	equipped
Configuration	Vertically articulated	
Degree of Freedom	6	
Payload	Wrist	225kg
	On U-arm	30kg
Repeatability (※1)	0.05 mm	
Range of Motion	S-Axis (Turning)	-180° - +180°
	L-Axis (Lower Arm)	-60° - +76°
	U-Axis (Upper Arm)	-86° - +90°
	R-Axis (Roll)	-360° - +360°
	B-Axis (Pitch/Yaw)	-125° - +125°
	T-Axis (Twist)	-360° - +360°
Max Speed	S-Axis	2.09 rad/s, 120°/s
	L-Axis	1.69 rad/s, 97°/s
	U-Axis	2.01 rad/s, 115°/s
	R-Axis	2.53 rad/s, 145°/s
	B-Axis	2.53 rad/s, 145°/s
T-Axis	3.84 rad/s, 220°/s	
Allowable Moment	R-Axis	1372 N·m (140kgf·m)
	B-Axis	1372 N·m (140kgf·m)
	T-Axis	735 N·m (75kgf·m)
Allowable Inertia (GD <sup>2</sup> /4)	R-Axis	145kg·m <sup>2</sup>
	B-Axis	145kg·m <sup>2</sup>
	T-Axis	84kg·m <sup>2</sup>
Approx. Robot mass	1080kg	
Protected structure	Body:IP54 Wrist:IP67	
Mounting method	Floor-mounted	
Ambient Conditions	Temperature	0 to +45°C
	Humidity	20 to 80%RH (Non-condensing)
	Vibration	4.9m/s <sup>2</sup> (0.5G) or less
	Altitude	1000m or less
	Others	<ul style="list-style-type: none"> <li>•Free from explosive or corrosive gas and liquid.</li> <li>•Free from dust, soot, oil, or water.</li> <li>•Free from electrical noise.</li> <li>•Free from strong magnetic fields.</li> </ul>
Power Requirements	5.0kVA	
Controller	YRC1000	

※1 Repeatability is conformed to ISO 9283. Units: mm  
 ※2 The manipulator is in the home position.

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FOR STUDY PURPOSE ONLY



**YASKAWA**  
 株式会社安川電機

Reference Drawing

TITLE MOTOMAN-SP210  
 DIMENSION DIAGRAM

DRWN DATE Oct.03.'17

DWG.NO. HW1385418



SIZE A3