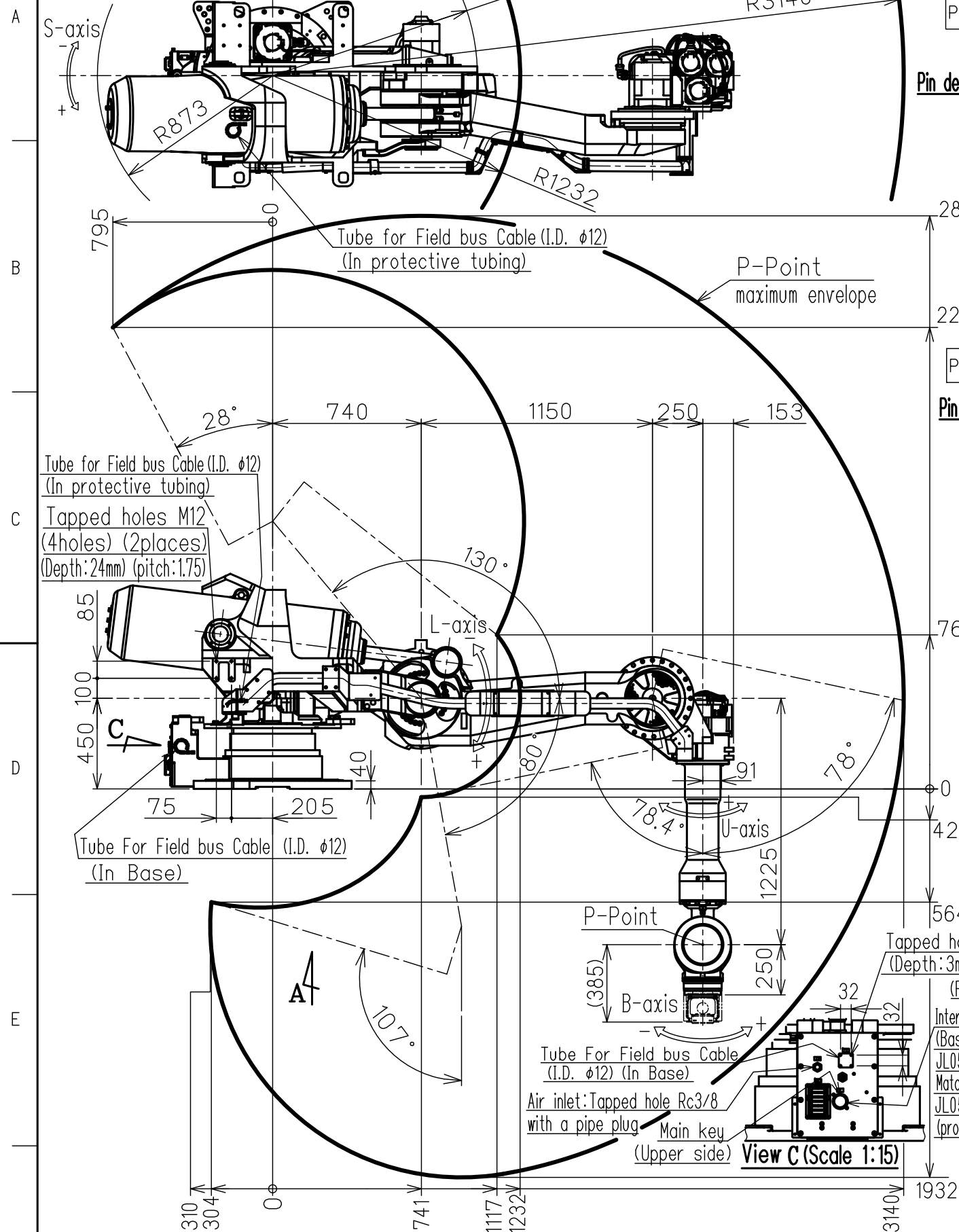


DWG.NO. HW1385410



Pins used
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
0.2mm² x 6pins
— shielded wire

Pin details for external axis encoder cable

Pin details for internal user wiring harness
(Casing side)

Pin details for internal user wiring harness
(Base side)

Pin details for external axis power cable

Insertion-type pin terminal details for external axis power cable
(In Casing)

View B (Scale 1:10)

Tapped holes M8
(2holes) (2places)
(Depth:15mm) (pitch:1.25)

Tapped holes M8 (4holes)
(Depth:15mm) (pitch:1.25)

Connector for the external axis (power cable)
type is JL05-2A18-1SC (with cap)
Mating connector type is JL05-6A18-1P
(provided by users)

Air outlet
Tapped hole Rc3/8 with a pipe plug

Connector for the external axis (encoder cable)
type is JL05-2A20-29SC (with cap)
Mating connector type is JL05-6A20-29P
(provided by users)

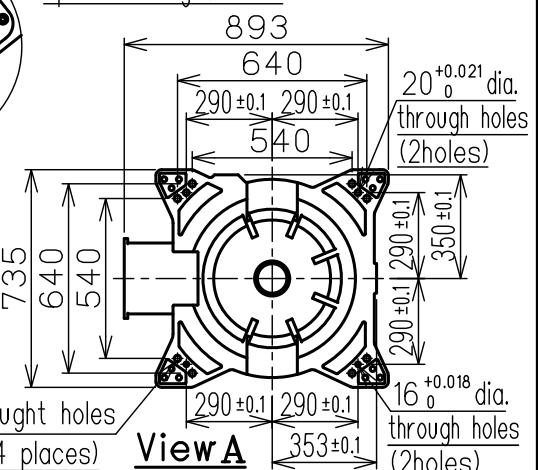
Insertion-type pin terminal
for external axis power cable (In Casing)

Item	Model	MOTOMAN-SP185R
Flange for Cabling	not-equipped	equipped
Configuration	Vertically articulated	
Degree of Freedom	6	
Payload	Wrist	200 kg
	On U-arm	186.5 kg
Repeatability (※1)	0.2 mm	
Range of Motion	S-Axis (Turning)	-180° - +180°
	L-Axis (Lower Arm)	-130° - +80°
	U-Axis (Upper Arm)	-78.4° - +78°
	R-Axis (Roll)	-360° - +360°
	B-Axis (Pitch/Yaw)	-125° - +125°
Max Speed	S-Axis	1.57 rad/s, 90°/s
	L-Axis	1.48 rad/s, 85°/s
Allowable Moment	U-Axis	1.48 rad/s, 85°/s
	R-Axis	2.09 rad/s, 120°/s
Allowable Inertia (GD ² /4)	B-Axis	2.09 rad/s, 120°/s
	T-Axis	3.32 rad/s, 190°/s
Approx. Robot mass	1830 kg	
Protected structure	Body: IP54 Wrist: IP67	
Mounting method	Shelf-mounted	
Ambient Conditions	Temperature	0 to +45°C
	Humidity	20 to 80%RH (Non-condensing)
	Vibration	4.9m/s ² (0.5G) or less
	Altitude	1000m or less
Power Requirements	Others	•Free from explosive or corrosive gas and liquid. •Free from dust, soot, oil, or water. •Free from electrical noise. •Free from strong magnetic fields.
	Controller	YRC1000

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

Type	Note
YR-1-06VR200-A00	STANDARD

Internal user wiring connector (Casing side)
type is JL05-2A22-14SC (with cap)
Matching connector type is JL05-6A22-14P
(provided by users)



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 1:25

YASKAWA
株式会社 安川電機

Reference Drawing

TITLE MOTOMAN-SP185R
DIMENSION DIAGRAM

DRWN DATE Oct.03.'17

DWG.NO. HW1385410

SIZE A3