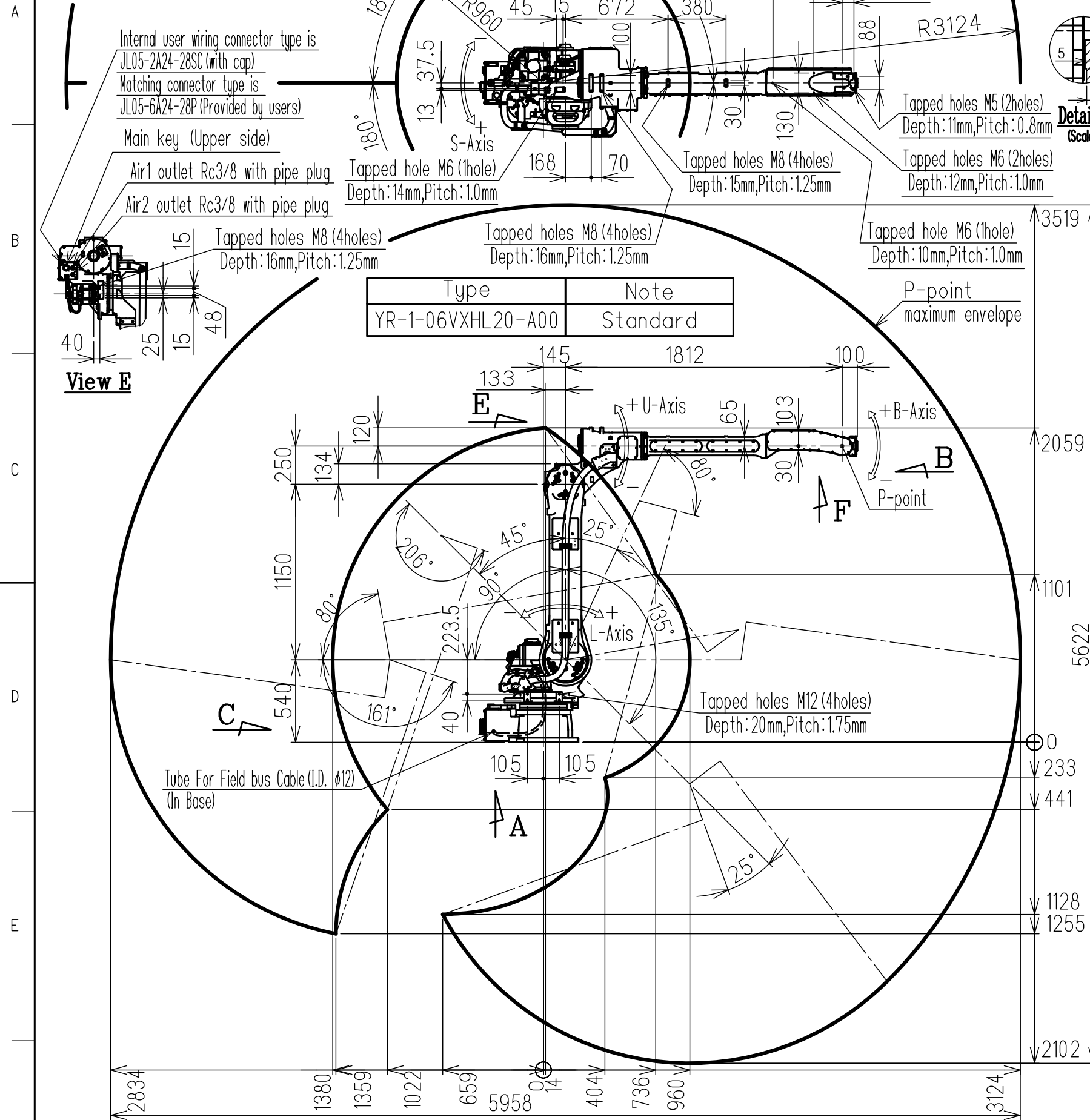
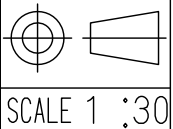


DWG.NO. HW1385975



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



YASKAWA  
株式会社 安川電機

Reference Drawing

TITLE MOTOMAN-AR3120  
DIMENSION DIAGRAM

DRWN DATE Mar. 4.'19  
DWG.NO. HW1385975

SIZE A 3

Item	Model	MOTOMAN-AR3120
Configuration		Articulated Robot
Degree of Freedom		6
Payload	Wrist	20 kg
	On U-arm	10 kg
Repeatability (※1)		±0.15mm
Range of Motion	S-Axis (※2)	-180° - +180°
	L-Axis	-90° - +135°
	U-Axis	-80° - +206°
	R-Axis	-200° - +200°
	B-Axis	-150° - +150°
	T-Axis	-455° - +455°
Max Speed	S-Axis	3.14rad/s, 180° /s
	L-Axis	3.14rad/s, 180° /s
	U-Axis	3.14rad/s, 180° /s
	R-Axis	6.98rad/s, 400° /s
	B-Axis	7.50rad/s, 430° /s
	T-Axis	11.0rad/s, 630° /s
Allowable Moment	R-Axis	39.2N·m (4.0kgf·m)
	B-Axis	39.2N·m (4.0kgf·m)
	T-Axis	19.6N·m (2.0kgf·m)
Allowable Inertia (GD <sup>2</sup> /4)	R-Axis	1.05kg·m <sup>2</sup>
	B-Axis	1.05kg·m <sup>2</sup>
	T-Axis	0.75kg·m <sup>2</sup>
Approx. Robot mass		560kg
Protected structure		Body: IP54 Wrist: IP67
Mounting method (※2)		Floor-mounted, Wall-mounted, Tilt-mounted, Ceiling-mounted
Ambient Conditions	Temperature	0 to +45°C
	Humidity	20 to 80%RH (Non-condensing)
	Vibration	Less than 4.9m/s <sup>2</sup> (0.5G)
	Altitude	1000m or less
	Others	Free from explosive or corrosive gas and liquid. Free from dust, oil or water. Free from electrical noise. Free from strong magnetic fields.
Power Requirements		4.0KVA
Controller		YRC1000

Notes: ※1 Load on the U-arm will vary depending on the load weight of the wrist part.  
※2 Repeatability is conformed to ISO 9283.  
※3 When the manipulator is installed on a slope or a wall, the motion of S-axis will be limited.

Units: mm

