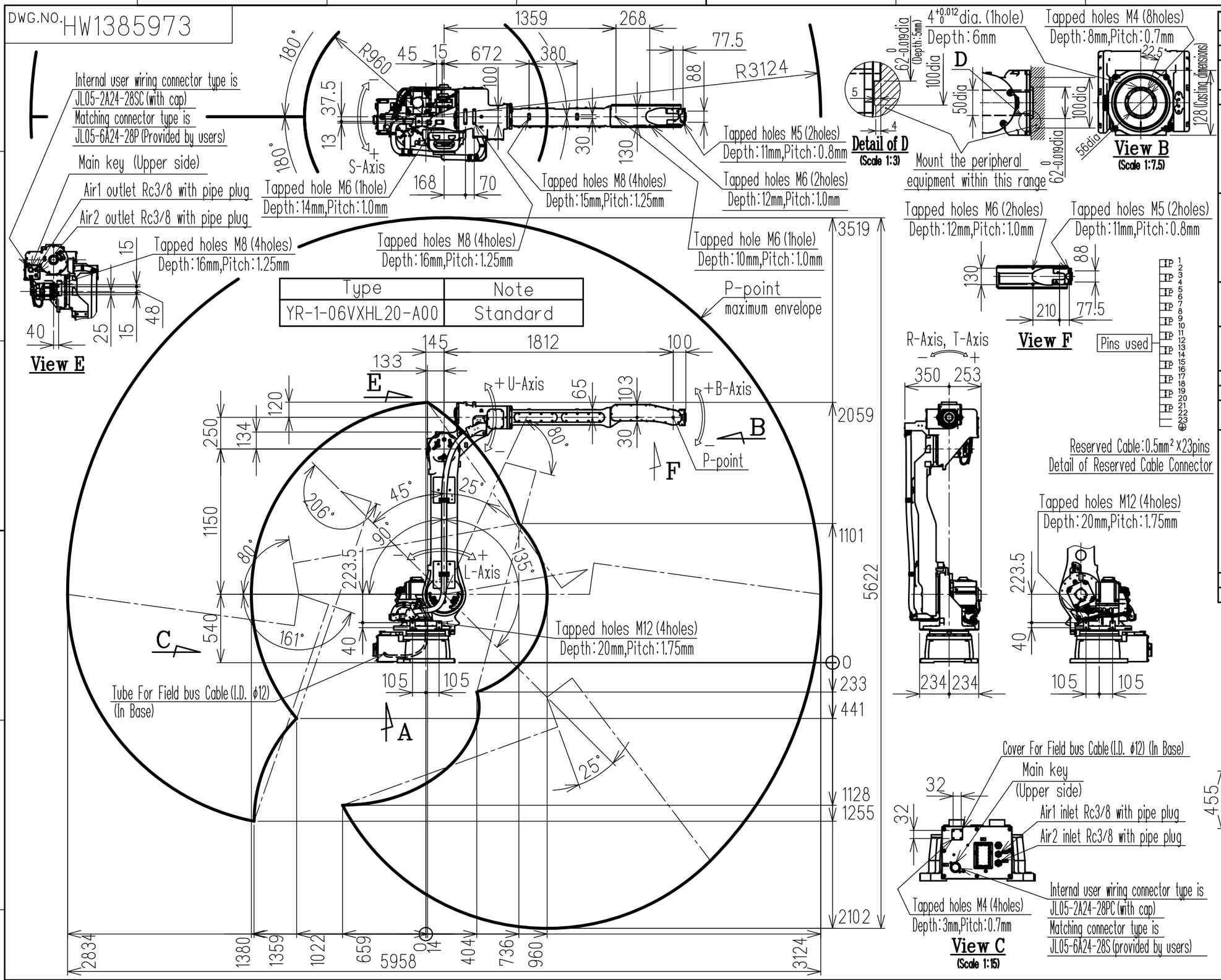
DWG.NO. HW1385973



Item \ Model		MOTOMAN-GP20HL
Configuration		Articulated Robot
Degree of Freedom		6
Payload	Wrist	20 kg
	On U-arm (※1)	10 kg
Repeatability (※2)		0.07mm
Range of Motion	S-Axis	-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 (GD²/4)	R-Axis	1.05kg·m²
	B-Axis	1.05kg·m²
	T-Axis	0.75kg·m²
Approx.Robot mass		560kg
Protected structure		Body:IP54 Wrist:IP67
Mounting method (※3)		Floor-mounted,Wall-mounted, Tilt-mounted,Ceiling-mounted
Ambient Conditions	Ambient Temperature	0°C to +45°C
	Humidity	20%RH to 80%RH (Non-condensing)
	Vibration	Less than 4.9m/s² (0.5G)
	Altitude	1000m or less
	Flatness for installation	0.5mm or less
	Others	·Free from dust,oil or water. ·Free from explosive and corrosive gas or liquid. ·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 Repeatabilitiy 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

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 :30

YASKAWA
株式会社 安川電機

Reference Drawing

TITLE MOTOMAN-GP20HL
DIMENSION DIAGRAM

DRWN DATE Mar.26.'18
DWG.NO. HW1385973 ②

SIZE A3