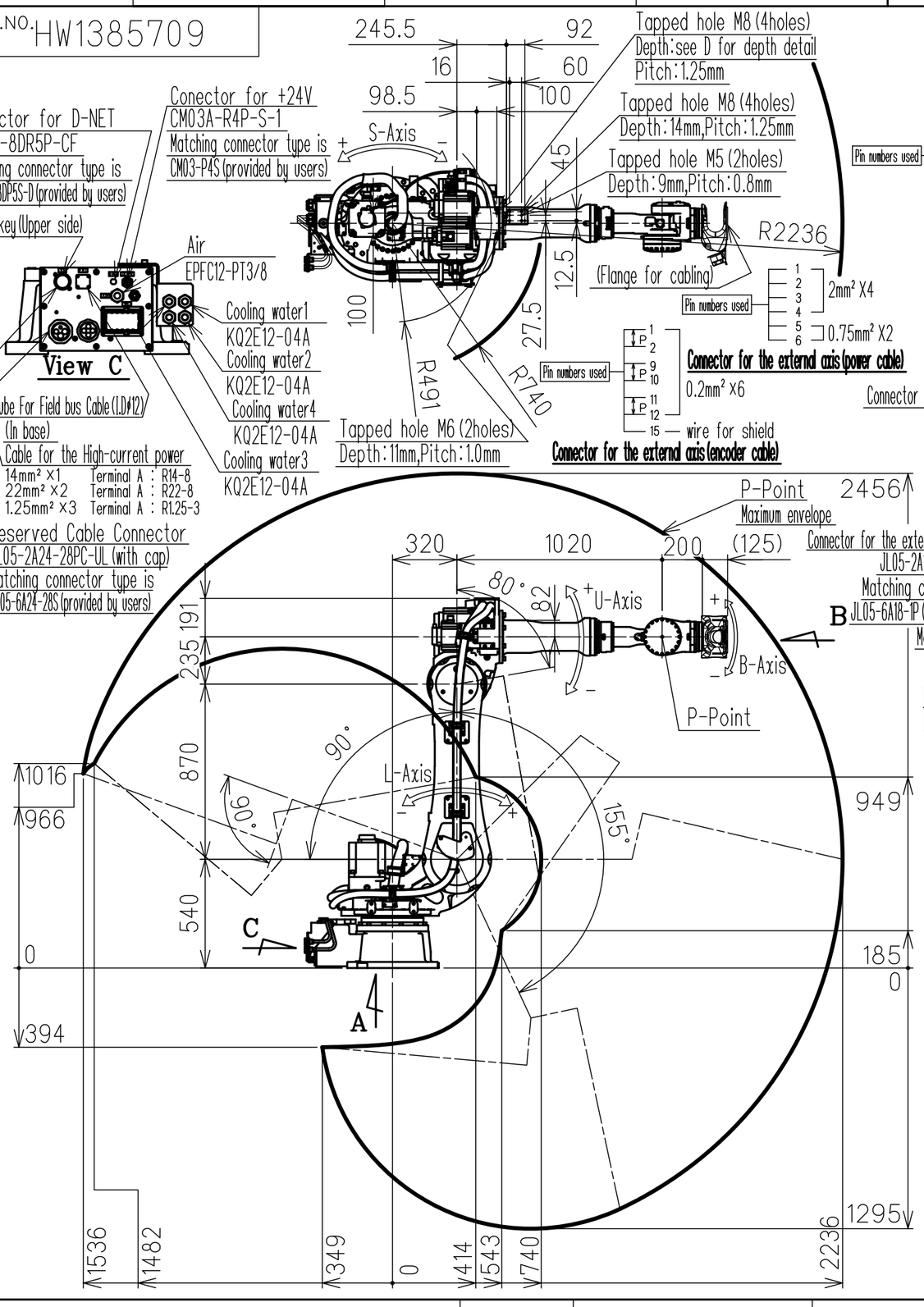
DWG.NO. HW1385709



Item \ Model		MOTOMAN-SP100	
Flange for cabling		Not-equipped	equipped
Configuration		Vertically articulated	
Degree of Freedom		6	
Payload	Wrist	110kg	100kg
	On U-arm	10kg	
Repeatability (※1)		-0.07mm - +0.07mm	
Range of Motion	S-Axis	-180° - +180°	
	L-Axis	-90° - +155°	
	U-Axis	-80° - +90°	
	R-Axis	-360° - +360°	-205° - +205°
	B-Axis	-125° - +125°	-120° - +120°
	T-Axis	-360° - +360°	-205° - +205°
Max Speed	S-Axis	2.45 rad/s,140°/s	
	L-Axis	1.92 rad/s,110°/s	
	U-Axis	2.27 rad/s,130°/s	
	R-Axis	3.05 rad/s,175°/s	
	B-Axis	3.05 rad/s,175°/s	
	T-Axis	4.44 rad/s,255°/s	
Allowable Moment	R-Axis	721N·m (73.5kgf·m)	696N·m (71kgf·m)
	B-Axis	721N·m (73.5kgf·m)	696N·m (71kgf·m)
	T-Axis	294N·m (30kgf·m) ※2	
Allowable Inertia (GD²/4)	R-Axis	60kg·m²	58kg·m²
	B-Axis	60kg·m²	58kg·m²
	T-Axis	33.7kg·m²	33kg·m
Approx.Robot mass		660kg	
Protected structure		Body:IP54 Wrist:IP67	
Mounting method		Floor-mounted	
Ambient Conditions	Temperature	0 to +45℃	
	Humidity	20 to 80%RH (Non-condensing)	
	Vibration	4.9m/s² (0.5G) or less	
	Altitude	1000m or less	
	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.	
Power Requirements		5.0kVA	
Controller		YRC1000	

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

Unit : mm

Type	Note
YR-1-06VX110-A00	Default Specifications

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-SP100 DIMENSION DIAGRAM

DRWN DATE Oct.2.'17

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SIZE A3