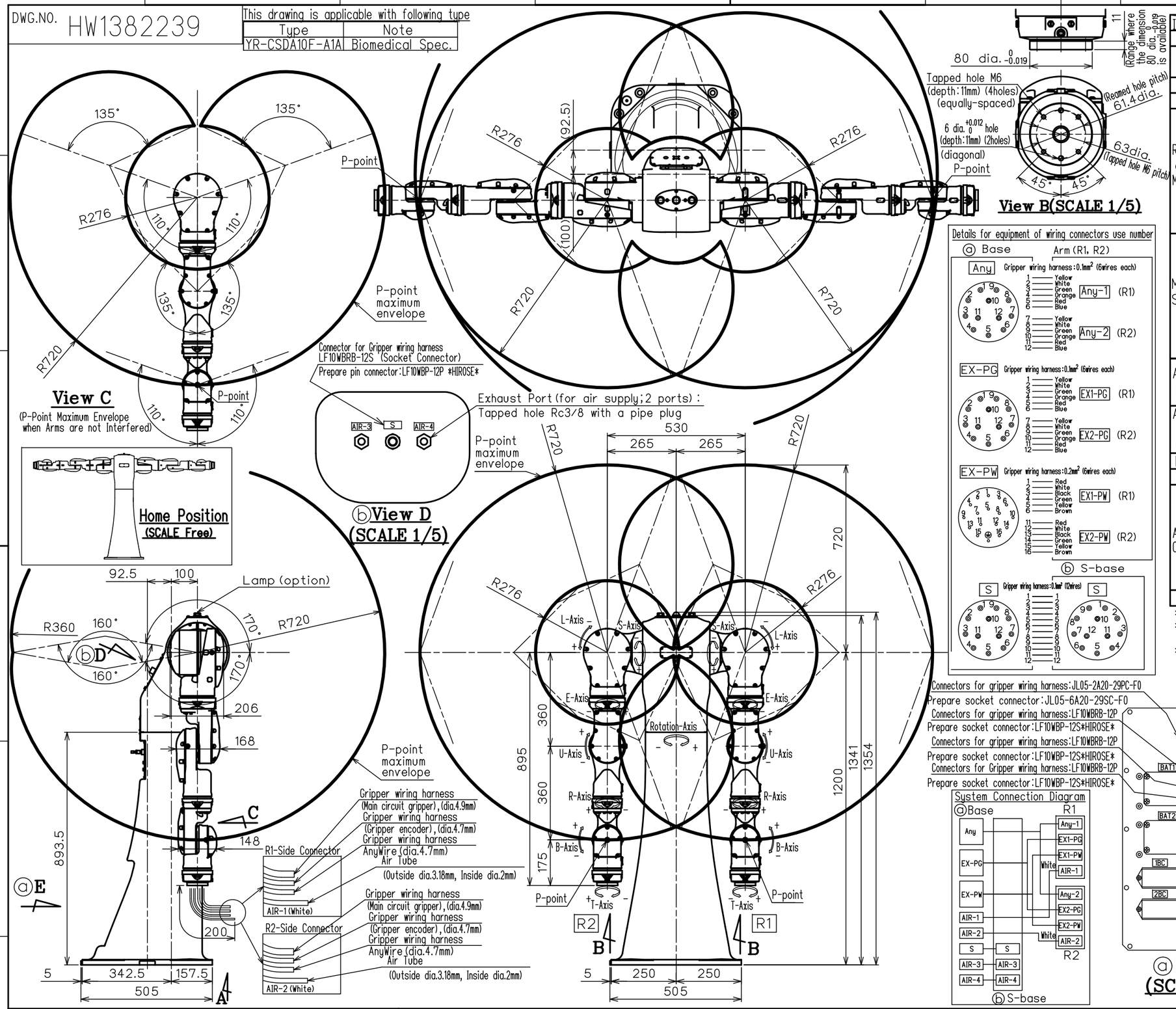
DWG.NO. HW1382239

This drawing is applicable with following type	
Type	Note
YR-CSDA10F-A1A	Biomedical Spec.



Item \ Model		MOTOMAN-CSDA10F
Configuration		Articulated
Degree of Freedom		7 axes for the left arm(R1); 7 axes for the right arm(R2); 1 turning axis
Payload		10kg/arm
Repetitive Positioning Accuracy *1		±0.1mm
Range of Motion	Rotation-axis	−170° − +170°
	S-axis (lifting)	−170° − +170°
	L-axis (lower arm)	−110° − +110°
	E-axis (lower arm twist)	−170° − +170°
	U-axis (upper arm)	−135° − +135°
	R-axis (upper arm twist)	−180° − +180°
	B-axis (wrist pitch/yaw)	−110° − +110°
	T-axis (wrist twist)	−180° − +180°
Maximum Speed *2	Rotation-axis	2.27rad/s,130°/s
	S-axis	2.97rad/s,170°/s
	L-axis	2.97rad/s,170°/s
	E-axis	2.97rad/s,170°/s
	U-axis	2.97rad/s,170°/s
	R-axis	3.49rad/s,200°/s
	B-axis	3.49rad/s,200°/s
	T-axis	6.98rad/s,400°/s
Allowable Moment	R-axis	31.4 N•m (3.2kgf•m)
	B-axis	31.4 N•m (3.2kgf•m)
	T-axis	19.6 N•m (2.0kgf•m)
Allowable Inertia ($GD^2/4$)	R-axis	1.0 kg•m²
	B-axis	1.0 kg•m²
	T-axis	0.4 kg•m²
Mass		220 kg
Cleanliness Class*3		ISO class 6 (class 1000)
Ambient Conditions	Temperature	0−40℃
	Humidity	20−80%RH at constant temperature
	Vibration acceleration	4.9m/s² (0.5G) or less
	Others	·Free from corrosive gas or liquid, or explosive gas ·Free from exposure to oil, or dust ·Free from excessive electrical noise (plasma)
Power Capacity		2.0 kVA

*1: Repeatitive Positioning Accuracy coforms to ISO 9283.
*2: SI units are used in this table.
However,gravitational units are used in ( ).
*3: Conformed to ISO 14644-1
However, under environment with the downflow of 0.4 m/s² or more of wind velocity.

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.

SCALE 1:15

YASKAWA 株式会社 安川電機

Reference Drawing

TITLE MOTOMAN-CSDA10F DIMENSION DIAGRAM

DWG.NO. HW1382239

SIZE A3