

DWG.NO. HW0389841

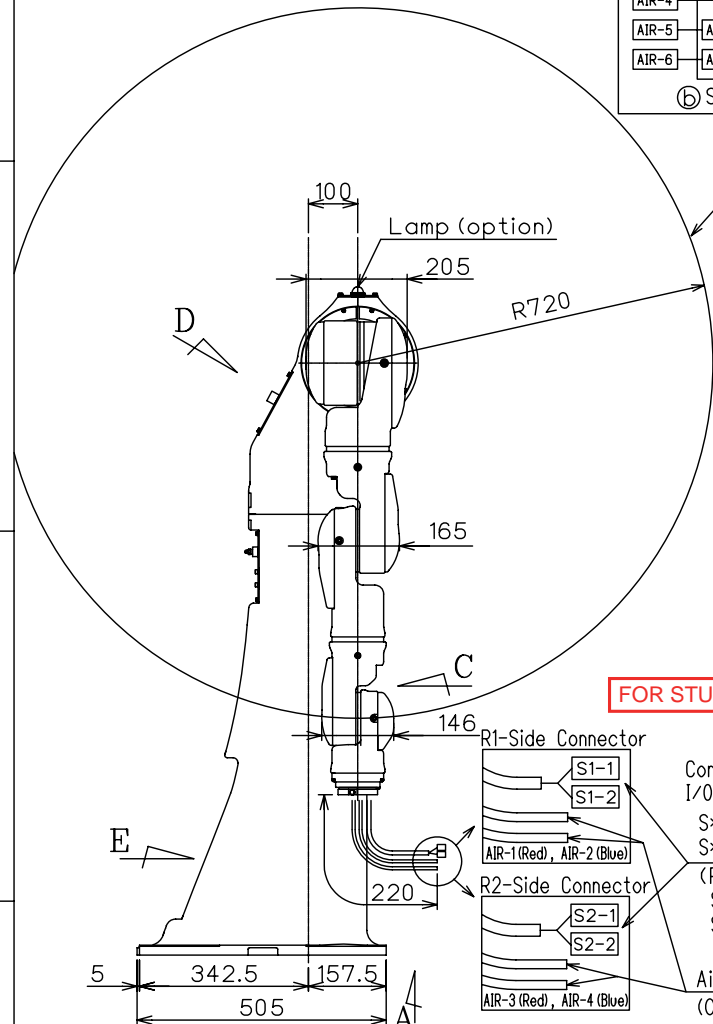
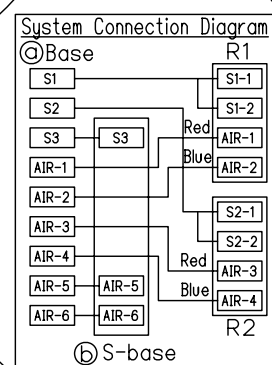
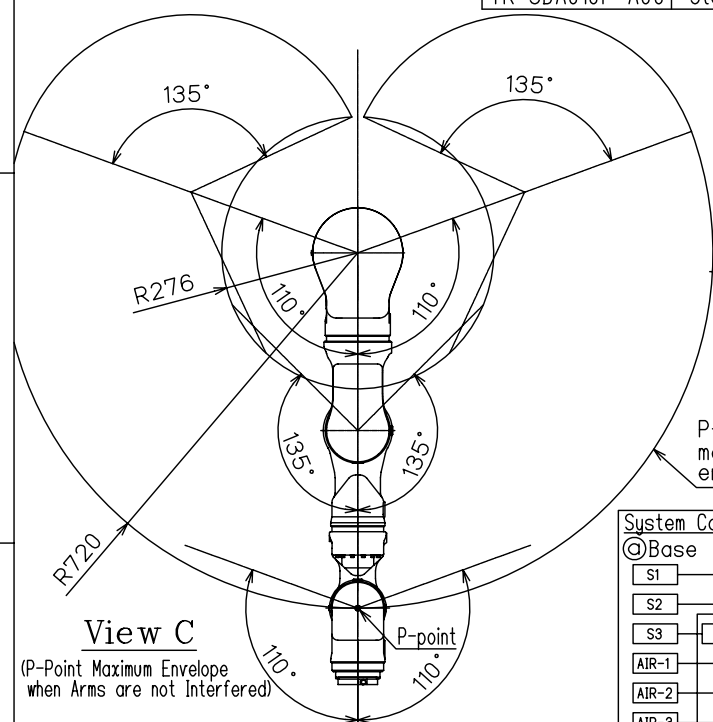
This drawing is applicable with following type

| Type           | Note           |
|----------------|----------------|
| YR-SDA010D-A00 | Standard・DX100 |
| YR-SDA010F-A00 | Standard・FS100 |

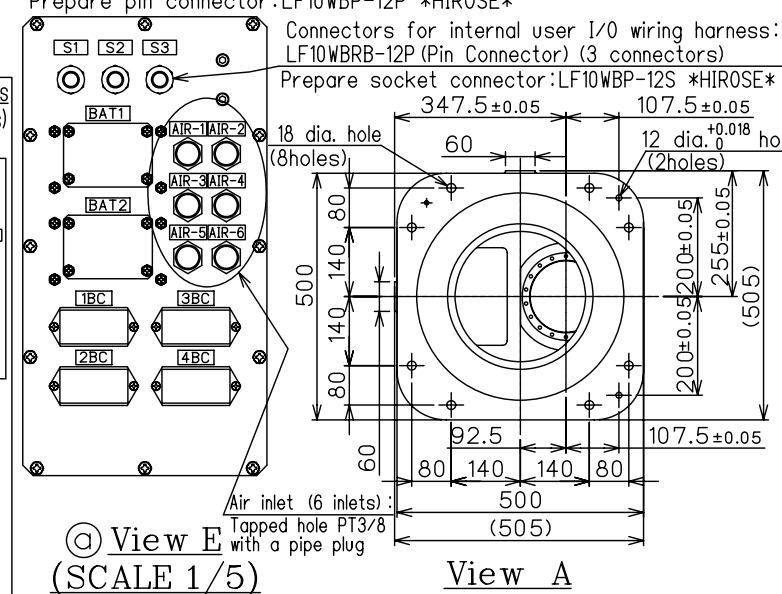
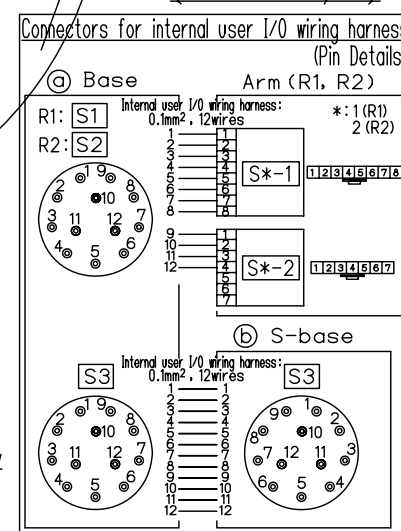
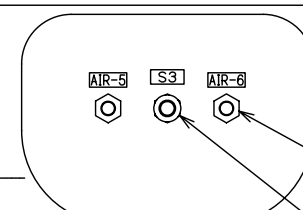
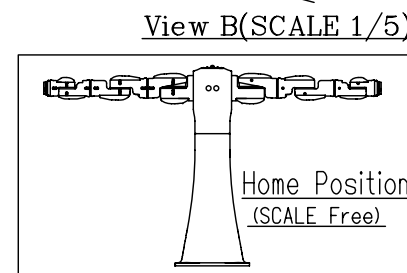
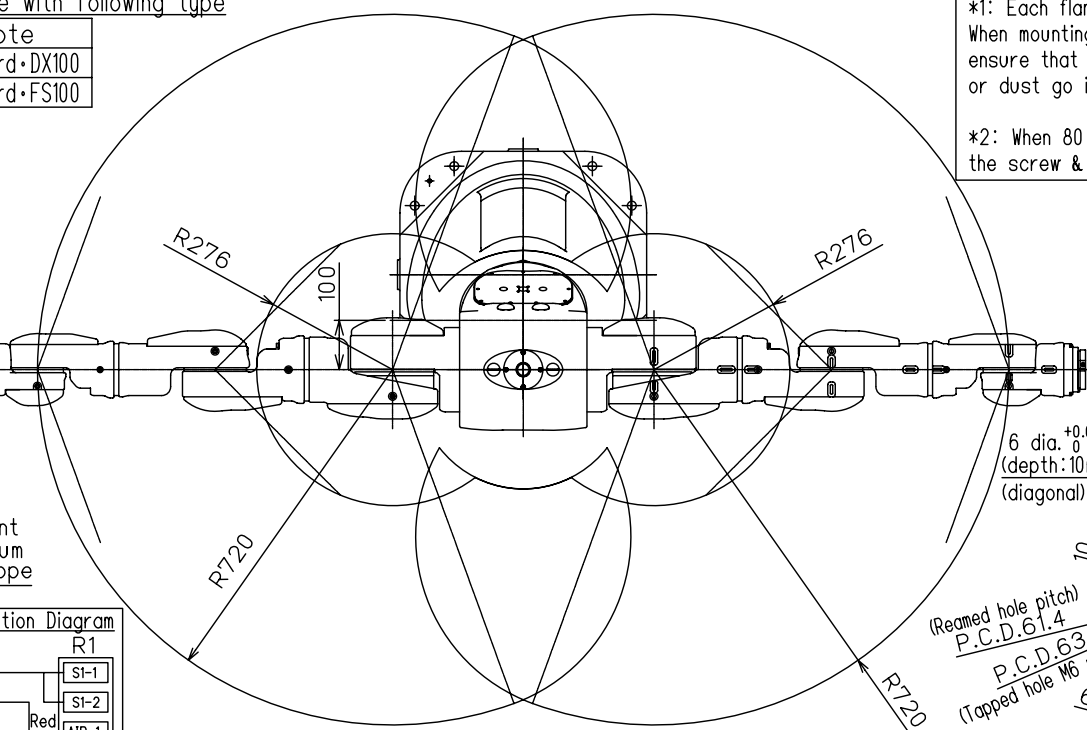
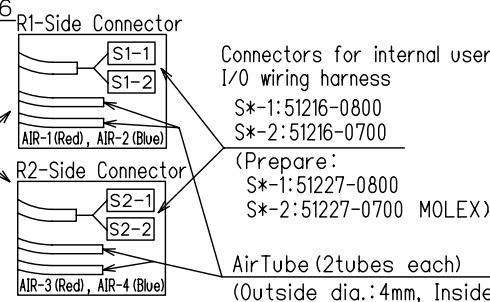
\*1: Each flange has a cable through hole.  
When mounting equipment such as an attachment,  
ensure that no foreign objects including liquid, oil,  
or dust go into the hole.

\*2: When 80 dia. part is used, pay attention to  
the screw & plug for T-axis grease replenishment.

| Item                                   | Model                    | MOTOMAN-SDA10D, SDA10F  |
|--|--------------------------|---|
| Configuration                          |                          | Articulated   |
| Degree of Freedom                      |                          | 7 axes for the left arm (R1);<br>7 axes for the right arm (R2); 1 turning axis  |
| Payload                                |                          | 10kg/arm  |
| Repetitive Positioning Accuracy *3     |                          | ±0.1mm  |
| Range of Motion                        | Rotation-axis            | -170° - +170°   |
|  | S-axis (lifting)         | -180° - +180°   |
|  | 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°   |
| Maximum Speed                          | T-axis (wrist twist)     | -180° - +180°   |
|  | 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)  |
| Allowable Moment                       | B-axis                   | 31.4 N·m (3.2kgf·m)   |
|  | T-axis                   | 19.6 N·m (2.0kgf·m)   |
|  |                          |   |
| Allowable Inertia (GD <sup>2</sup> /4) | R-axis                   | 1.0 kg·m <sup>2</sup>   |
|  | B-axis                   | 1.0 kg·m <sup>2</sup>   |
|  | T-axis                   | 0.4 kg·m <sup>2</sup>   |
| Mass                                   |                          | 220 kg  |
| Ambient Conditions                     | Temperature              | 0-40℃   |
|  | Humidity                 | 20-80%RH<br>at constant temperature   |
|  | Vibration acceleration   | 4.9m/s <sup>2</sup> (0.5G) 以下   |
|  | Others                   | •Free from corrosive gas or liquid,<br>or explosive gas<br>•Free from exposure to water, oil, or dust<br>•Free from excessive electrical noise (plasma) |
| Power Capacity                         | DX100                    | 2.5 KVA   |
|  | FS100                    | 1.5 KVA   |



FOR STUDY PURPOSE ONLY



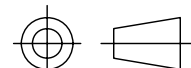
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2. Please note that the data is subject to be deleted without advance notice.

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



株式会社 安川電機

Reference Drawing

TITLE MOTOMAN-SDA10D, SDA10F  
DIMENSION DIAGRAM

DWG.NO.

HW0389841

SIZE A3