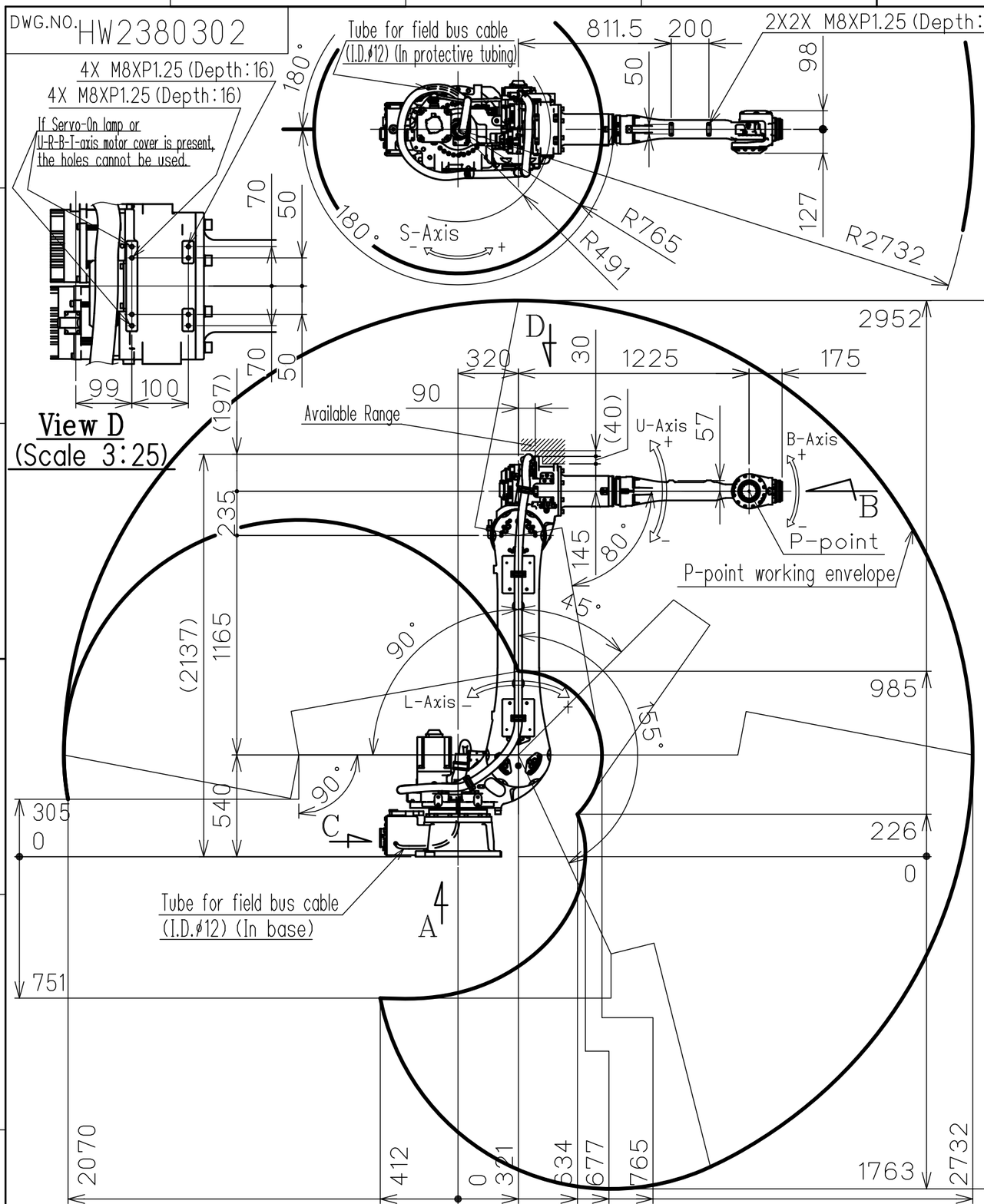
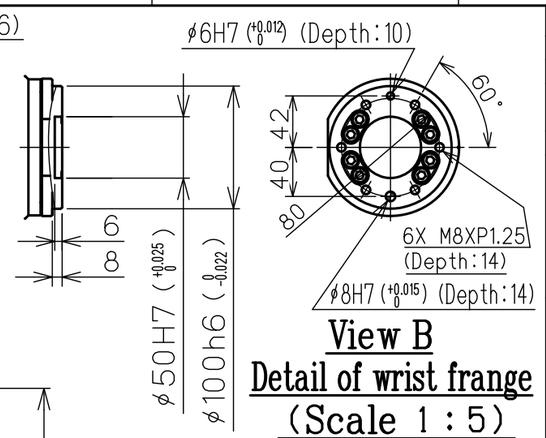
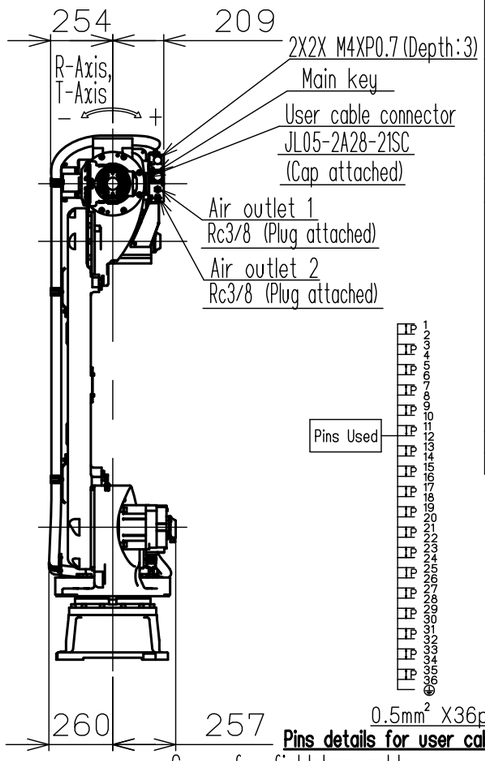
DWG.NO. HW2380302




View D (Scale 3:25)




View B
Detail of wrist frange
(Scale 1:5)



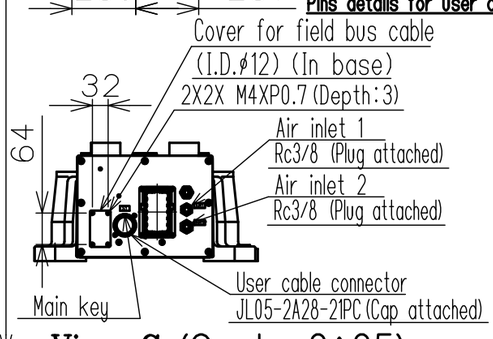

0.5mm² X36pins
Pins details for user cable connector

| Item \ Model | | MOTOMAN-GP70L |
|---|---|---|
| Configuration | | Vertically articulated |
| Degree of freedom | | 6 |
| Payload | Wrist part | 70kg |
| | U-arm | 10kg |
| Repeatability (*1) | | 0.05mm |
| Range of motion | S-Axis | -180° ~ +180° |
| | L-Axis | -90° ~ +155° |
| | U-Axis | -80° ~ +90° |
| | R-Axis | -360° ~ +360° |
| | B-Axis | -125° ~ +125° |
| | T-Axis | -360° ~ +360° |
| Maximum speed (*2) | S-Axis | 3.14 rad/s , 180°/s |
| | L-Axis | 2.14 rad/s , 123°/s |
| | U-Axis | 2.79 rad/s , 160°/s |
| | R-Axis | 4.01 rad/s , 230°/s |
| | B-Axis | 4.01 rad/s , 230°/s |
| | T-Axis | 6.11 rad/s , 350°/s |
| Allowable moment | R-Axis | 392N·m (40kgf·m) |
| | B-Axis | 392N·m (40kgf·m) |
| | T-Axis | 196N·m (20kgf·m) |
| Allowable inertia (GD²/4) | R-Axis | 28kg·m² |
| | B-Axis | 28kg·m² |
| | T-Axis | 11kg·m² |
| Mass | | 650kg |
| Protection rating | | Body:IP54 Wrist:IP67 |
| Mounting method | | Floor-mounted |
| Ambient conditions | Temperature | 0°C ~ +45°C |
| | Humidity | 20%RH ~ 80%RH (Non-condensing) |
| | Vibration acceleration | 4.9m/s² (0.5G) or less |
| | Altitude | 1000m or less |
| | Flatness for installation | 0.5mm or less |
| | Others | ·Free from dirt, dust, oil soot, or water.<br>·Free from explosive and corrosive gas or liquid.<br>·Free from excessive electrical noise (plasma).<br>·Free from strong magnetic field. |
| Power requirements (*3) | | 5.0KVA |
| Applicable controller | | YRC1000 |

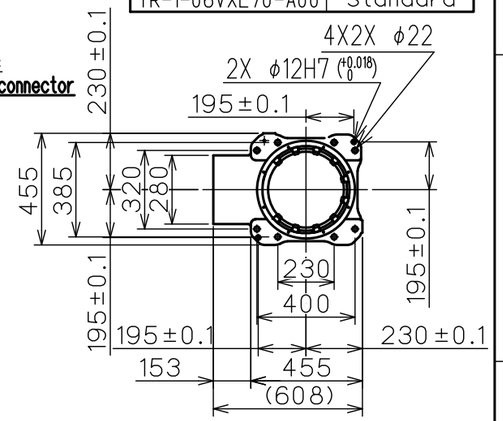
*1 Repeatability conforms to ISO 9283.
*2 The maximum speed in this table is the available maximum value and will vary depending on the load, posture, or range of motion.
*3 The power requirement value is obtained using YASKAWA's in-house measurement conditions and will vary depending on the load, motion pattern, or cycle time.
*4 The posture in this drawing is in the home position.

Units:mm

| Type | Specification |
|---|---|
| YR-1-06VXL70-A00 | Standard |




View C (Scale 2:25)




View A

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-GP70L DIMENSION DIAGRAM

DRWN DATE Feb.3.'22

DWG.NO. HW2380302

SIZE A3