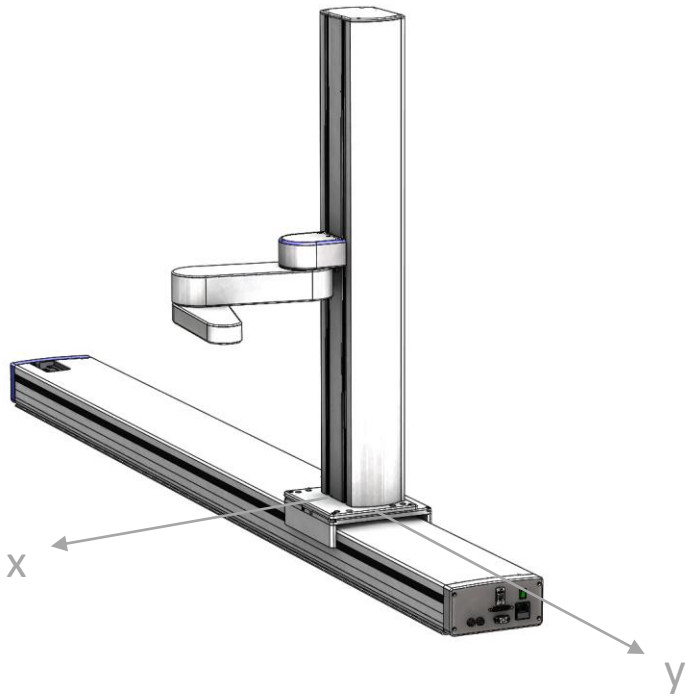
Installing a Robot onto a Rail

Overview

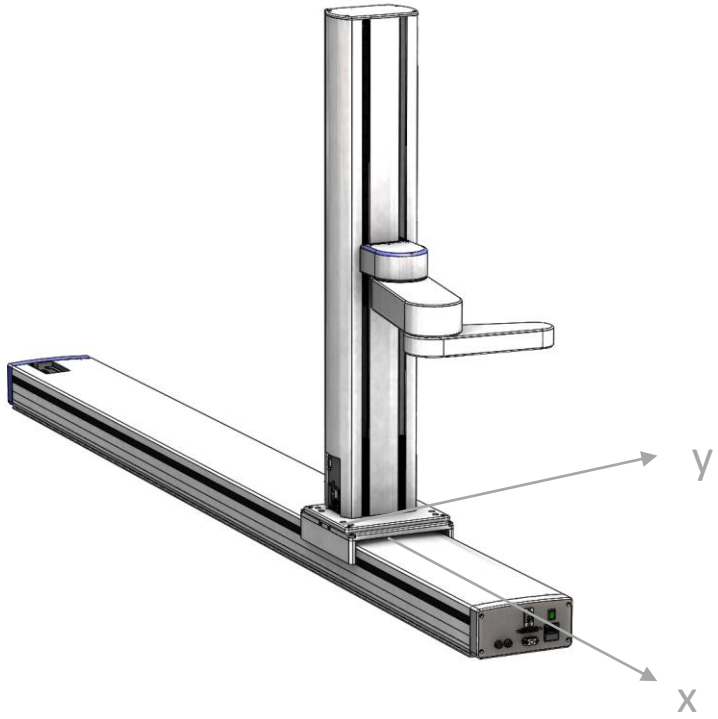
1. Choose your configuration
2. Route cables
3. Attach robot and cables
4. Install new PAC files to include linear rail
5. Calibrate robot
6. Set chosen configuration in PAC files

1. Choose your configuration

0 degrees: Robot's Y axis aligns with rail travel

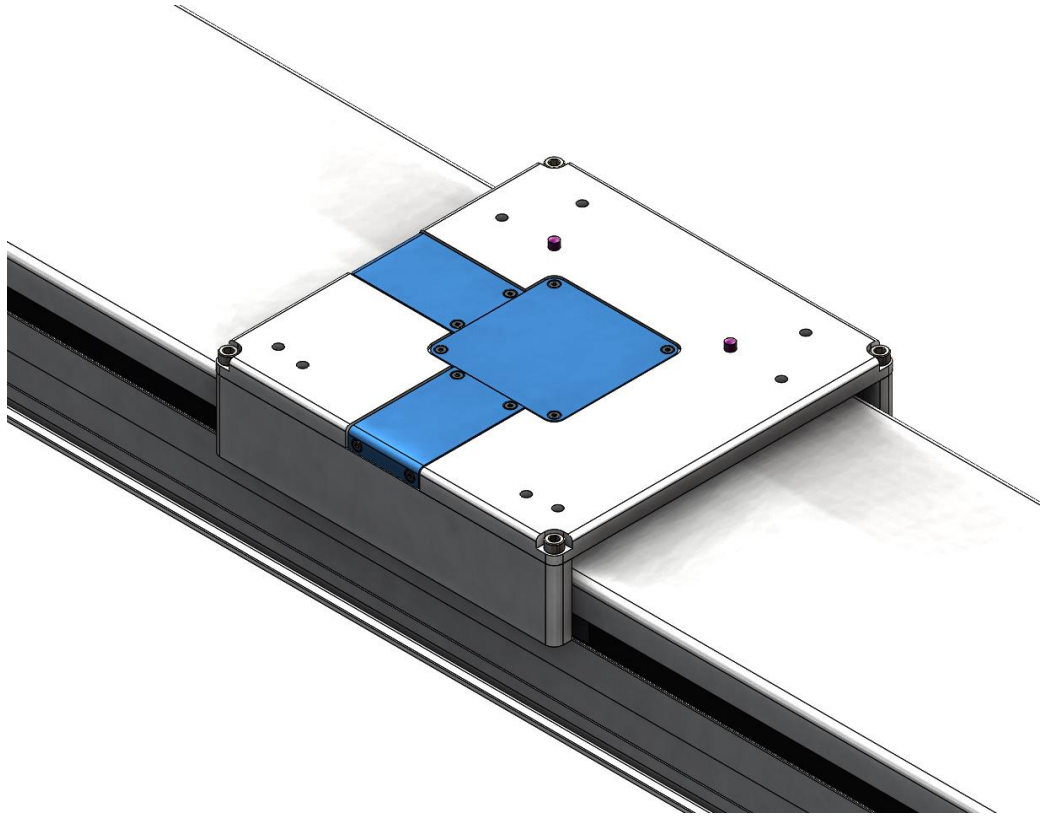


-90 degrees: Robot's X axis aligns with rail travel



2. Route Cables

- If necessary, remove the covers on the top of the linear axis carriage and re-route the cabling so that the connectors can reach the facilities panel at the base of the z-axis column.



3. Attach robot and cables

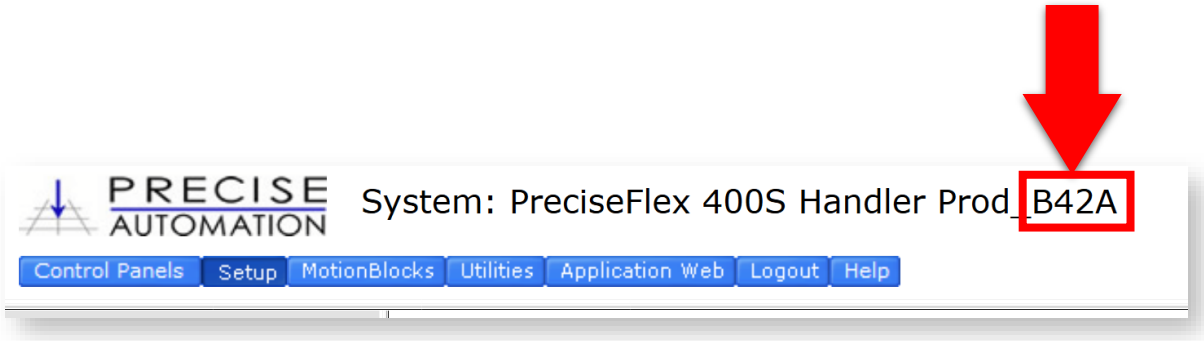
1. Align outer holes of robot with rail
2. Attach cables
    1. Power
    2. Ethernet
    3. Communication (DB9)

0 deg: base aligned with edge

-90 deg: base centered

4. Install new PAC files

1. Follow standard procedure
    1. **Make sure to match the version number of the new files to the files currently installed on the robot!**



2. Reboot robot after new PAC files are installed
3. Check Virtual Pendant to see if the rail now shows position

5. Calibrate the robot

1. Follow standard procedure
2. Rail calibration position is described in the Cal_pp dialogue

6. Set configuration in PAC files

1. Set the 5th value of parameter 16050 to the chosen configuration (0 or -90)
2. Click “Set new values”
3. Click “Save All to Flash”
4. **Wait 20 seconds**
5. Reboot the robot

The rail is now ready to use