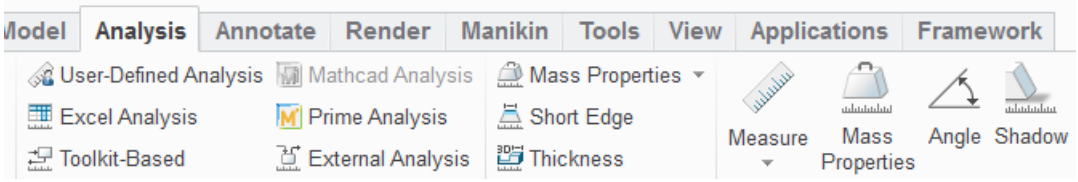
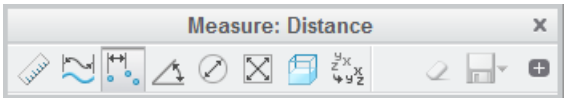
Measuring Model Properties

Measuring distance:

1. Open **robot_system.asm**.
2. From the Analysis tab, click **Measure** .



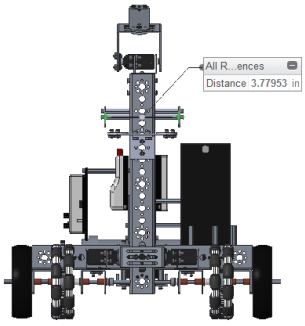
3. Choose **Measure: Distance** in the pop-up window.



4. Press and hold the **Ctrl** key and click two points on the model to select them.

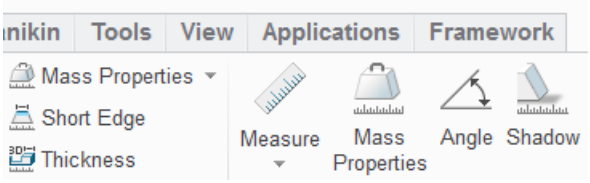
Creo calculates the distance of the points in the model. The graphic shows the width of the claw mechanism.

There are several measurement tools available. You can measure length, angle, diameter, surface area, volume, etc.



Calculating mass:

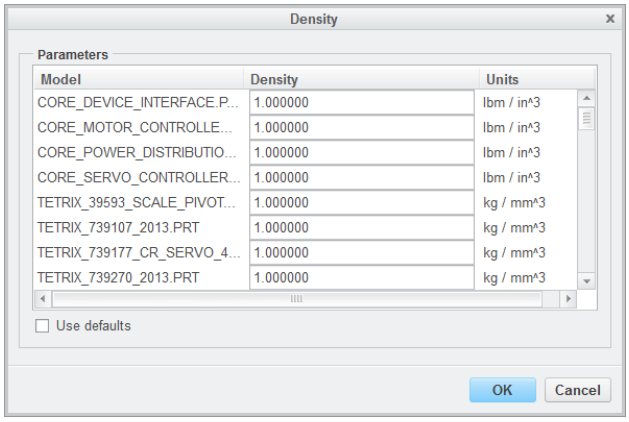
1. Select **Mass Properties** .
2. Click **Preview** to calculate the properties.



The first time you use Mass Properties for a model the Density window appears showing the default density of each part.

If your parts don't have an assigned material or density, they will be given the default density. You are able to change it to a more precise value.

If you leave the defaults, you may make your model too heavy to run accurate simulations.



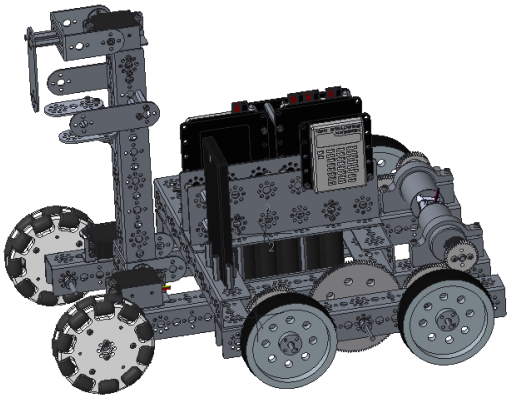
3. Click **OK** to calculate properties using the set values.

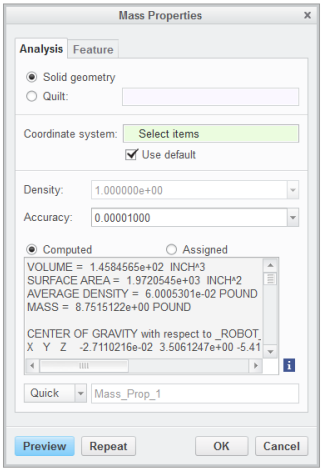
Notice the physical properties calculated.

These properties are calculated using the material information that has been provided or defaulted for each of the parts used in the assembly.

We will talk about how to validate or test these calculations in the next exercises.

4. Click on **Mass Properties** again to close the Measure tool.





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