

How to Format the Output of Mass Moments Of Inertia in Draft

This Tech Tip looks at how to format the output of mass moments of inertia in draft.

If you place a property text like **%{Ixx|GP}** in a callout in your draft (which places the *mass moments of inertia* from *graphic connection to part*) and you get something like **0,013060 kg.m²**, you are able to influence the number of digits and the units like follows.

Units

The units for this callout is set by the units for *Length* and *Mass* in the Solid Edge options on the tab *Units*.

Solid Edge Options

Units System

- MMKS (millimeter, kilogram, second)
- MKS (meter, kilogram, second)
- CGS (centimeter, gram, second)
- IPS (inch, pound, second)
- FPS (foot, pound, second)

Units and Dimension Styles

Change active dimension style to match length units.

Current style: ISO (m)

New active style: ISO (cm)

Active dimension style is changed when the length unit is changed. Uncheck the control to turn off the functionality. The control is disabled when dimension style mapping is used.

Note: Highlighted units indicate - Change from Units System default.
 Change from Units System default and Base Unit.

Base Units

Name	Value	Precision
Length	cm	0.123
Mass	kg	0.123
Temperature	C	0.12
Angle	deg	0.12
Temperature	C	0.123

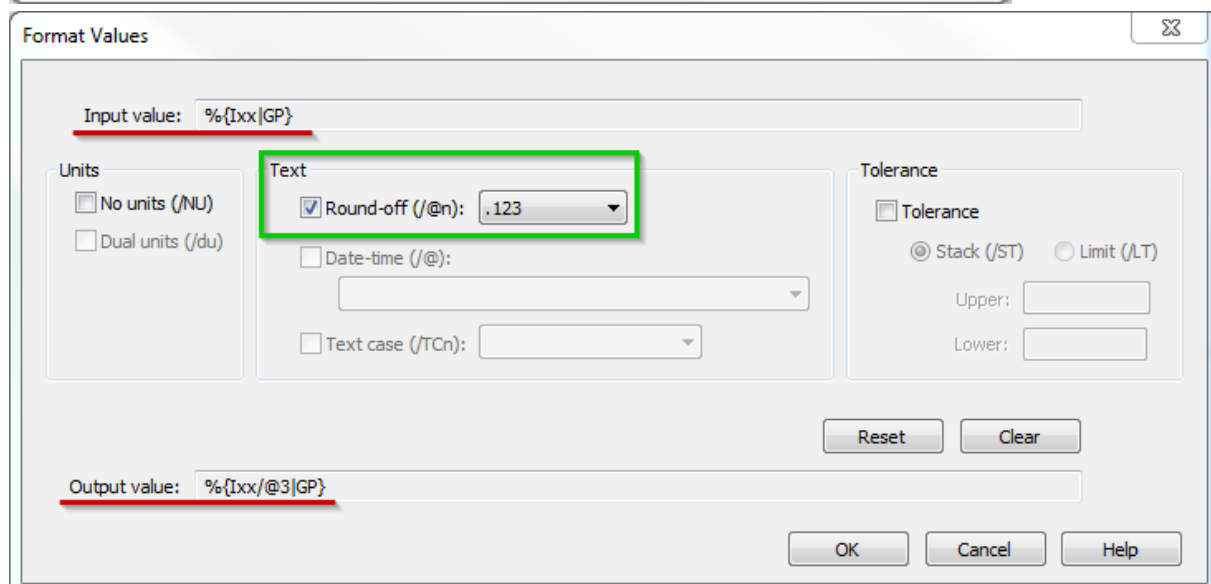
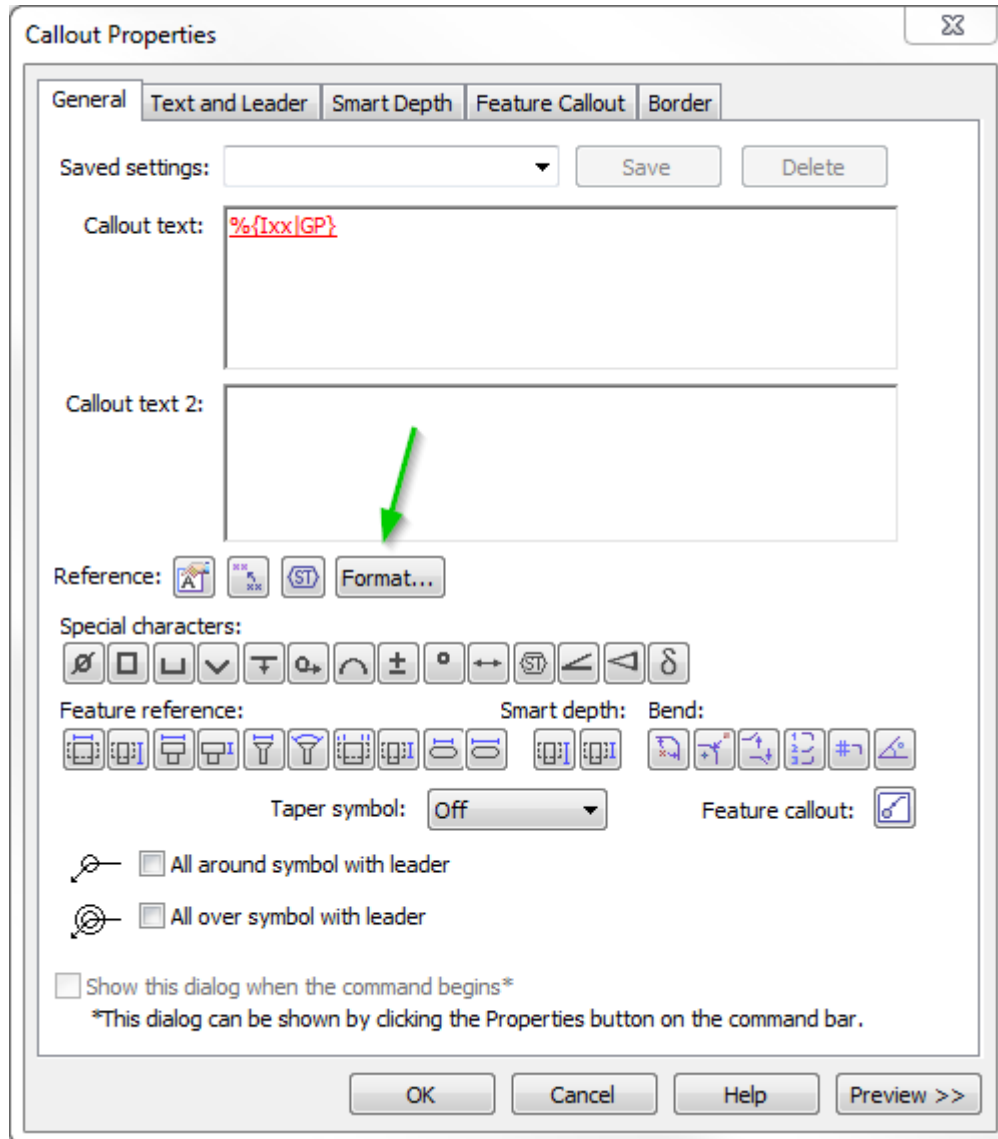
Derived Units

Name	Value	Precision
Area	cm ²	0.12
Volume	cm ³	0.12
Density	kg/cm ³	0.123
Linear Density	kg/m	0.123
Linear Velocity	cm/s	0.123
Angular Velocity	deg/s	0.123
Linear Acceleration	cm/s ²	0.123
Angular Acceleration	deg/s ²	0.123
Frequency	Hz	0.123

OK Cancel Apply Help

Number of digits

The number of digits is set by `/@n` like `%{Ixx/@3|GP}` which leaves you with 3 digits. If you cannot recall the format `/@n`, Solid Edge offers an icon called *Format* in the callout properties which lets you click *Round-off* and select the number of digits you need and puts this format into the callout property text as needed.



Note

Don't forget to *Update All Property Text* to see the changes in your callout.

In this example I formatted the callout text from **0,013060 kg.m²** to **130,597 kg.cm²**.