

Guidelines for Drawing Specification/Interpretation

Title Block

- Is the drawing a released version?
- Do you have the right revision level?
- Are any part tolerances specified in the title block? Are they appropriate for all dimensions to which they apply?
- Which standards apply to the drawing? ASME Y14.5M-1994, or another not specified?

General Drawing Notes

- What controls the tolerance on implied right angles for this part?
- Are tolerances specified in the general notes?
- Do the dimensions apply to the part before surface coatings?
- Do the dimensions apply before or after heat treat?
- Are any notes that contain specifications not measurable?
- Has surface texture been specified?

Datum System

- Are the datum specifications valid?
- Are datum targets used? Are the datum target specifications valid?
- If datum targets are specified, are they referenced as a primary datum without being accompanied by a secondary and tertiary datum reference?
- For each geometric control, is the primary datum repeatable?
- For each geometric control, do the datum references allow repeatable measurement?

Feature Definition I Geometric Tolerances

- Is each part surface and/or feature of size fully defined? (SLOF)
- For each geometric control, is the syntax correct for the type of part feature to which the geometric control is applied? (The syntax includes the geometric symbol, the modifiers, and the datum references.)
- Are symbols or notes specified that are not covered by the standards referenced on the drawing?
- Are all features of size located with GD&T?
- Are any GD&T callouts a simultaneous requirement? Should they be gaged simultaneously?
- Are all GD&T callouts displayed properly (so there is no misinterpretation)?

General Items

- Is the material specified?
- Are there any safety-related dimensions designated? To which standard are they specified?
- Are any critical dimensions designated? To which standard are they specified?
- Is a tolerance specified for burrs? Corner breaks?