



INTERNATIONAL INSTITUTE OF
GEOMETRIC DIMENSIONING & TOLERANCING
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Precision-GD&T **A Core Foundational Element to:**

➔ Six-Sigma ➔ DFM ➔ ISO 9000 ➔ Reliability

==Critical Assumptions==

1. Functional / design intent must be understood and clearly defined on engineering drawings and specifications.
2. Dimensioning and tolerancing scheme must clearly define magnitude of allowable feature variation required to achieve functional intent.
3. Every feature must have the greatest amount of tolerance allowed to fully achieve functional intent at the least amount of total cost in respect to design, manufacturing, tooling, quality, measurement, suppliers.
4. All requirements must be clearly understood by all applicable individuals to the degree necessary to confidently achieve their necessary task.

Risk!!! Questions Related to Common Problems & Negative Cost Implications

1. Do we have engineering drawings which do not represent functional design intent optimally?
2. Do we continue to have multiple revisions to engineering drawings which impact all departments?
3. Do we have daily inefficiencies with employees not trained adequately to "optimally" do their job tasks (employees asking questions due to lack of training in their respective area and clarity on drawings)?
4. Do we have ongoing confusion and costly reactions by design and manufacturing due to invalid or questionable measurement results?
5. Do we scrap or rework parts not optimally toleranced or measured correctly?

YES to any of the above, visit: www.iigdt.com or call [651-275-8952](tel:651-275-8952)

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