

# Top 21 Reasons to Use GD&T on Low Volume Parts

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Incredible as it may seem, some companies still need convincing that GD&T will ensure better design and improve productivity. Here are 21 reasons to use GD&T on low volume parts.

**The proper use of GD&T will enable you to. . .**

- 1. Create a part design that focuses on the product function.**
- 2. Convert product requirements into dimensional specifications.**
- 3. Better define parts without the need for assumptions.**
- 4. Document the design for future use.**
- 5. Discover problems in the design stage.**
- 6. Ensure that parts will assemble.**
- 7. Have less "hand fitting" at assembly.**
- 8. Ensure that parts are inspected as intended.**
- 9. Inspect parts more quickly.**
- 10. Specify additional tolerance for the manufacture of parts.**
- 11. Reduce scrap or rework.**
- 12. Make a replacement that fits into the assembly.**
- 13. Have multiple sources on various parts of an assembly.**
- 14. Have critical dimensions that will be related to product function.**
- 15. Make valid engineering calculations.**
- 16. Have common parts across similar assemblies.**
- 17. Design subassemblies in different locations and have them function correctly.**
- 18. Do tolerance analysis to study the effect of part tolerances on the assembly.**
- 19. Use state of the art software tools to analyze parts in an assembly.**
- 20. Use state of the art software tools to inspect the parts.**
- 21. Reduce the risk caused by vague specifications.**

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