

Potential Benefits of Each Drawing Creation Level			
By Alex Krulikowski			
Organizational Benefits	Drawing Levels		
	Standard Compliant Drawing	Mixed Method Design	Functional Design with Analysis
Ensures 100% part interchangeability	P	P	F
Shortens the overall product development cycle	P	P	F
Reduces problems with suppliers	F	F	F
Ensures drawings are in accordance with national standards	F	F	F
Improves dimensioning skills for employees	F	F	F
Reduces problems in inspection	F	F	F
Provides clear definition for outsourcing	F	F	F
Reduces problems in assembly	P	F	F
Reduces customer problems	P	P	F
Lowers tooling costs		P	F
Lowers inspection costs	P	P	F
Provides ability to analyze designs and predict problems on paper	P	P	F
Provides significantly larger tolerances (that also represent the functional requirements) which results in lower manufacturing costs		P	F
Aids in evaluating product change requests		P	F
Focuses on functional requirements of each component		P	F
P = Partial Benefit F = Full Benefit			

Creating drawings at the functional design with analysis level can provide significant return on investment and a strategic goal for many organizations.

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