



Dimensional Control Systems

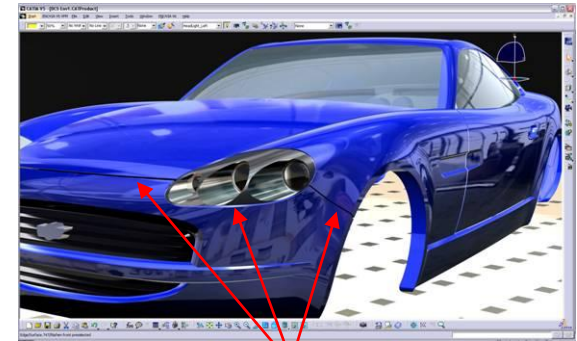
Gold Software Partner



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Tolerance analysis and dimensional variability simulation to achieve quality of assembled products

“Engineering in new dimensions”



- Tolerance analysis of gap & flush conditions
- Visual assessment of dimensional variation

Targets

- Auto & Aero OEMs and Tier-one Suppliers
- Consumer Goods OEM's, E&E OEM's

Customer Benefits

- Design: “Fit, Finish & Functional” quality achievement
- Manufacturing: reduce or eliminate tooling changes
- Quality Control: six-sigma support

[\[Click here for Industry Legend\]](#)

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MD1 or MD2

Coreq	Prereq	FTA
		-

3DCS Designer

Targeted for designers to perform quick proactive tolerance analysis

- Visualize tolerance variation in 3D animation
- Evaluate design clearances, hole alignments...

MD2 or DM2

Coreq	Prereq	-
		FTA

3DCS Analyst

For in-depth, comprehensive tolerance analysis

- Accurately predict dimensional variation, true virtual quality assessment
- Powerful tools including Monte Carlo simulation, sensitivity & GeofactorTM

MD2 or DM2

Coreq	Prereq	3DCS
		DT1
		FTA

3DCS Advanced Analyzer and Optimizer (add-on to 3DCS Analyst)

For optimizing tolerances

- Achieve best quality based on a minimal cost
- Optimize quality based on a fixed budget

MD2 or DM2

Coreq	Prereq	3DCS
		DT1
		FTA
		GPS

3DCS FEA Compliant Modeler (add-on to 3DCS Analyst)

To simulate variation resulting from compliant part deformation in manufacturing operations (clamping, welding, unclamping...)

- Assembly variation with deformable parts
- Accurate and realistic rendering



Mechanical Design

