

DIMENSIONAL CONTROL SYSTEMS



“Engineering in New Dimensions”

CATIA MD2	Coreq	Prereq	—
			FTA DM2 DT1 RTR

- ▶ **3DCS Variation Analyst (VA)**
For in-depth, comprehensive tolerance analysis
 - ▶ Accurately predict dimensional variation for true virtual quality assessment

CATIA MD2	Coreq	Prereq	3DCS VA
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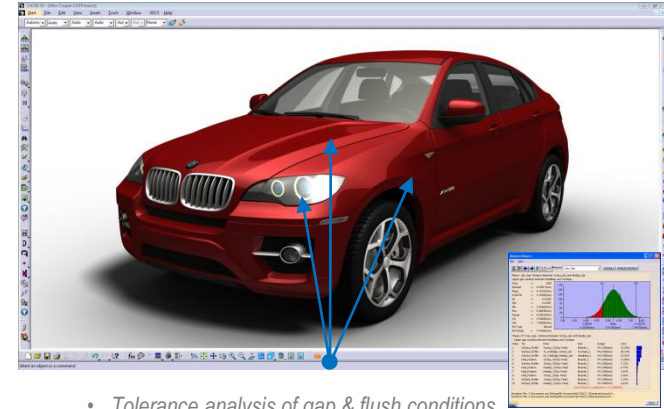
- ▶ **3DCS Advanced Analyzer and Optimizer (AAO)** (add-on to 3DCS VA)
For optimizing tolerances
 - ▶ Achieve best quality based on a minimal cost / Optimize quality based on a fixed budget

CATIA MD2	Coreq	Prereq	3DCS VA
			AFC GPS

- ▶ **3DCS FEA Compliant Modeler (CM)** (add-on to 3DCS VA)
Simulate deformation within the virtual assembly process (*clamping, welding...*)
 - ▶ Leverage existing FEM/FEA models to accurately simulate deformable parts

CATIA MD2	Coreq	Prereq	—
			FTA KIN DM2 DT1

- ▶ **3DCS Mechanical Variation Analyst (MVA)** (also offered as add-on to 3DCS VA)
Perform variation analysis on over-constrained assemblies (*engines, switches, gears...*)
 - ▶ Speed up the modeling process by leveraging existing CATIA joints and constraints



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

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IF WE ask the right questions
we can change the world.