



Linear FEA and non-linear FEA/MBS thermo-mechanical analysis

"Integrated CAE towards Professional Solutions"

CATIA MD2
GPS
Coreaq_Prefreq
GAS
FMS
FMD
EST
GDY

- SAMCEF Gateway**
Driving general purpose SAMCEF FEA simulations from CATIA V5
 - Perform linear static, modal, buckling, transient or harmonic response, non-linear structural and thermal analyses

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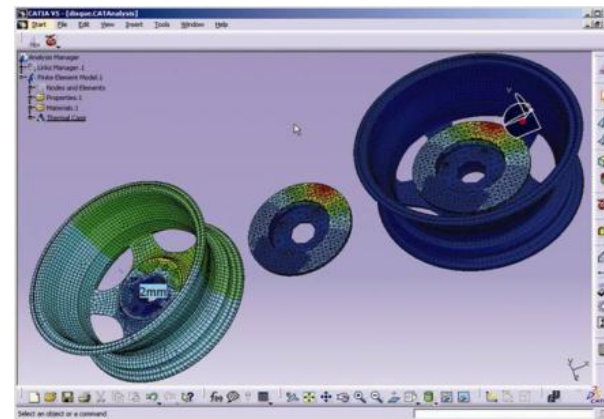
- TEA Mecano CAA V5 Based**
Mechanical transparent extended analysis
 - Non-linear structure analysis with contact conditions (quasi-static behavior) to obtain easily Von Mises stresses, plastic strains, contact pressure...

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FMSF
MD
EST

- TEA Thermal CAA V5 Based**
Thermal transparent extended analysis
 - Dedicated to stationary and transient thermal analysis (to obtain easily the temperature distribution on an existing linear model built in CATIA V5)

CATIA MD2
GPS
Coreaq_Prefreq
EST

- TEA Pipe CAA V5 Based**
Automotive industry oriented to analyze the best brake pipe positioning
 - Vertical application dedicated to Piping and Tubing Simulation to prepare the placement of pipes in engines and cars



Targets

- Designers, mechanical & stress engineers from mechanical industries (aerospace, defense, marine, automotive, energy & wind turbine manufacturers, ...)

Customer Benefits

- Perform product engineering optimization
- Eliminate expensive design/analysis iterations
- Easy transparent use of advanced non-linear mechanical and thermal Finite Element techniques

[Click here for Industry Legend](#)



Simulation

