

With *GT-SUITE's* valvetrain engineering tools, EngSim can model complete solutions to optimize a valvetrain design for best engine performance while addressing stability, durability, and noise.

Simulation Capabilities

Standard or Non-Conventional Mechanisms

Many Profile Synthesis Options

Kinematic and Dynamic Modeling

Spring Dynamic Analysis

- Margin
- Surge
- Coil clash
- Stress

Hydraulic Elements for HLA, Phasers, Actuators

Single Branch, Single or Multi-Cylinder Systems

Camshaft Torsional and Bending Analysis

Easy Visualization of Results

Can Be Integrated with Other GT-SUITE Modules

- Engine performance
- Lubrication
- Timing drive



Many kinematic valvetrain design metrics such as lift, velocity, acceleration, jerk, radius of curvature, or follower run-off can be generated to determine the optimum profile









www.EngSim.com