Powertrain-2: FEA Simulation of Engine Powertrain

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This webinar session will focus on ANSYS FEA capabilities in the field of automotive powertrain. Simulation study involves analysis of static components (e.g. cylinder block, head), moving components (e.g. pistons, crankshaft, cams) and sealing, connecting components (e.g. bolt, gaskets). Analysts are increasingly using single-physics as well as multiphysics to simulate both individual components and assemblies. Components are designed extensively for structural strength, dynamic stability and durability of the powertrain. Since study of powertrain components pose many simulation challenges to analysts; tools, processes and best-practices for simulating these components and systems will be discussed along with real-life examples. Advantages of ANSYS simulation environment like parameterization, optimization and data-transfer will be highlighted.

About the presenter

Santosh Kottalgi is Senior Technology Specialist in the Support & Services organization at ANSYS FLUENT India Pvt Ltd. Santosh has been with FLUENT and ANSYS for more than 9 years. Santosh has worked extensively in the field of Mechanical analysis using FEA in Automotive Industry. He has worked closely with many US Auto majors based in North-America. His focus areas have been Powertrain, Brakes NVH, Muffler Acoustics, Chassis Dynamics, L-ion Battery Simulations etc. Santosh has delivered presentations on automotive FEA at several platforms during national and International ANSYS conferences.