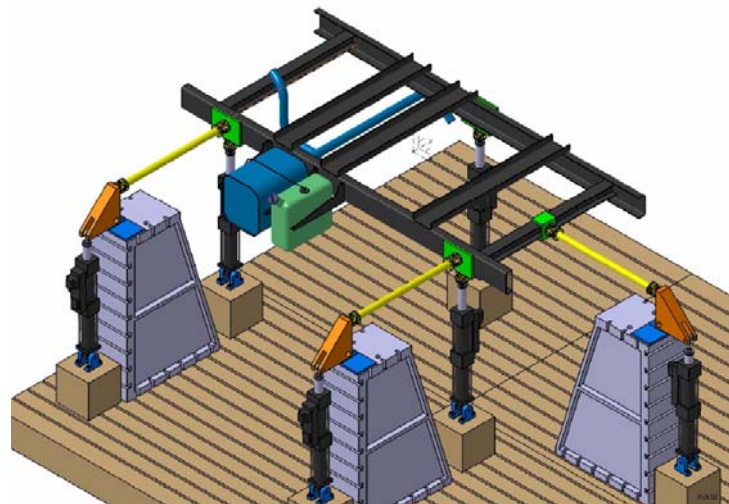


Contributions to the Development of Component Structure



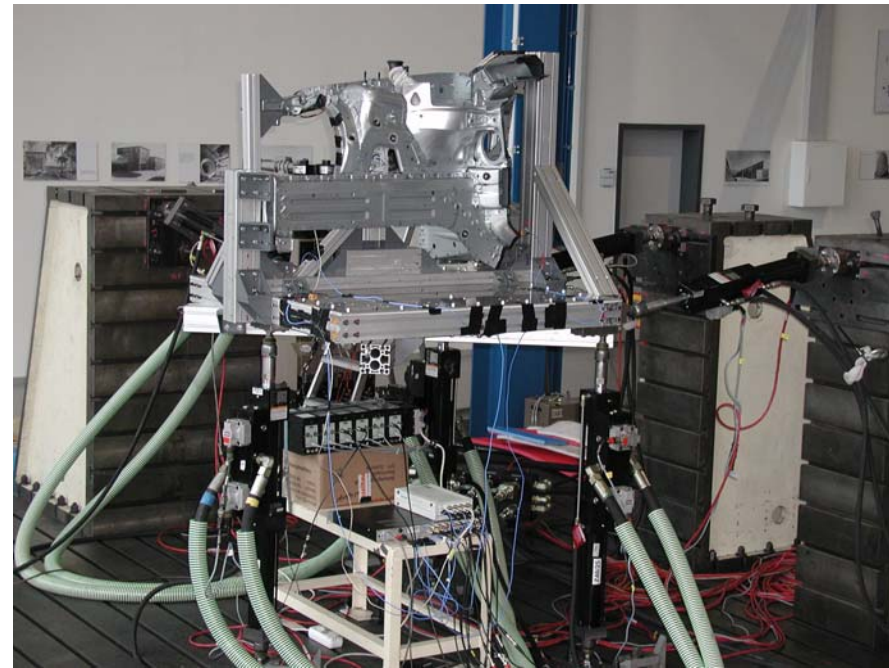
Contents



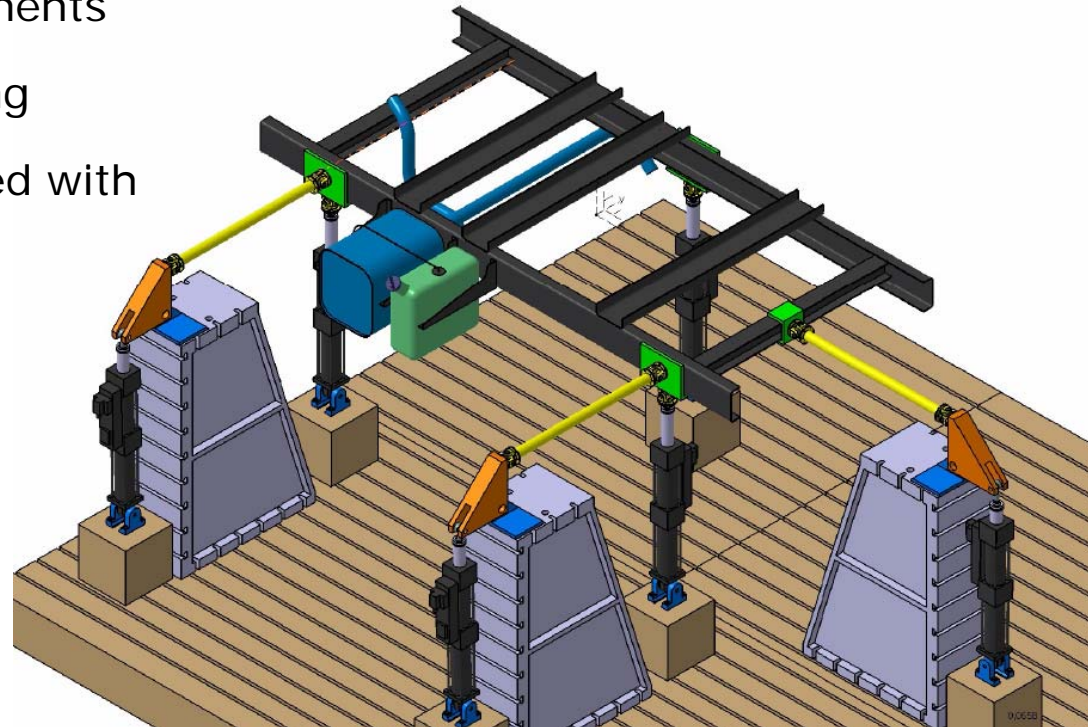
- Servohydraulic Stress
- Cyclic Pressure and Temperature Stress
- Vibration Stress
- Rotation Load

Servohydraulic Stress

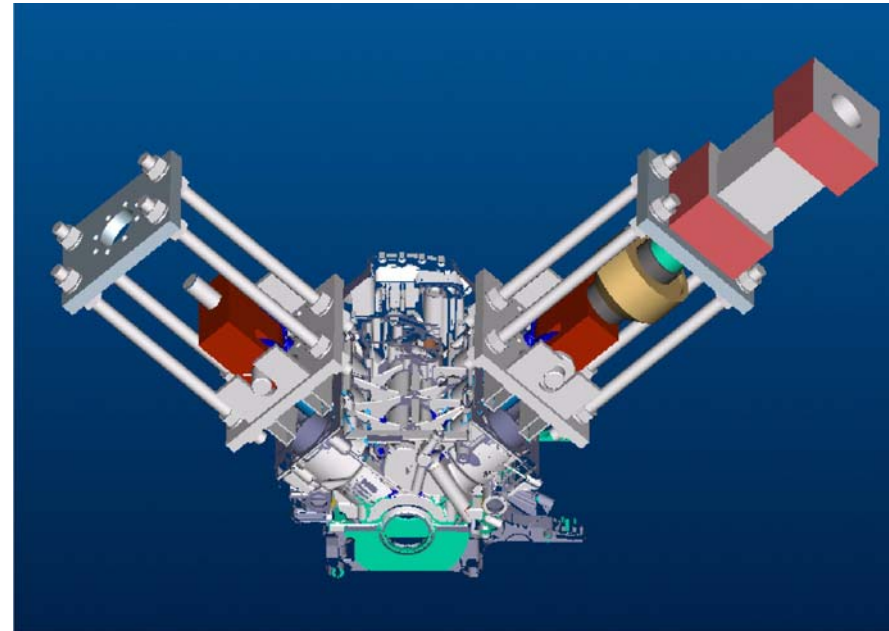
Strength properties of automotive components at multi-axial dynamic fatigue loading
(6-axis table)



- Stress on 6-axis chassis test bench
- Analyses for structural integrity of assemblies and components
- Dynamic simulation testing
- Multi-axial testing combined with hot gas generator






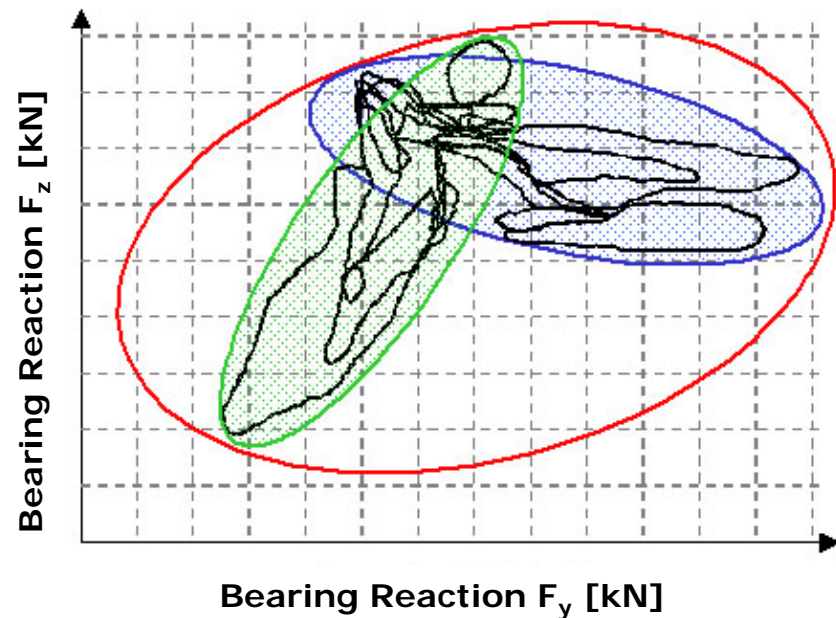
Analyses of crack formation at crankshaft bearing carrier via simulation of the bearing revolving load



Servo-hydraulic Stress

Load on crankshaft bearing carrier via gas and mass force (force paths / ellipses of force selectable according to customer specification)

-  Ellipses of Force, Force of Ignition Dominating
-  Ellipses of Force, Force of Ignition Dominating
-  Ellipse of Force, Mass Force Dominating



Endurance strength analyses under pressure and temperature conditions (e.g. pressure / temperature stability of double-walled fuel lines)



- Modal Analysis
- Resonance Search
- Shock Simulation
- Vibration Testing according to DIN / ISO
- Deformation Measurement with ESPI



Reproduction of operating loads on rotating components (e.g. flywheels, TC impellers, rotors of electric engines, wheel hub motors) with spin test benches:

- Lifetime analyses
(also under extreme conditions in terms of temperature stress)
- Rotor-dynamic analyses
- Burst testing



Locations



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