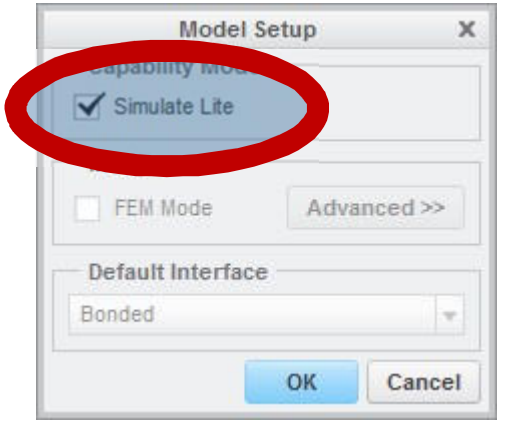
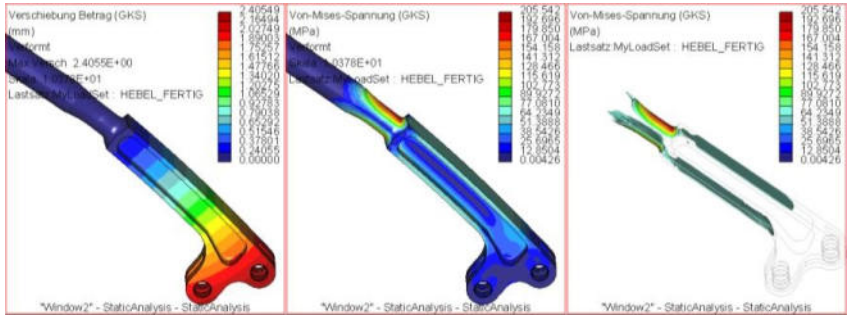
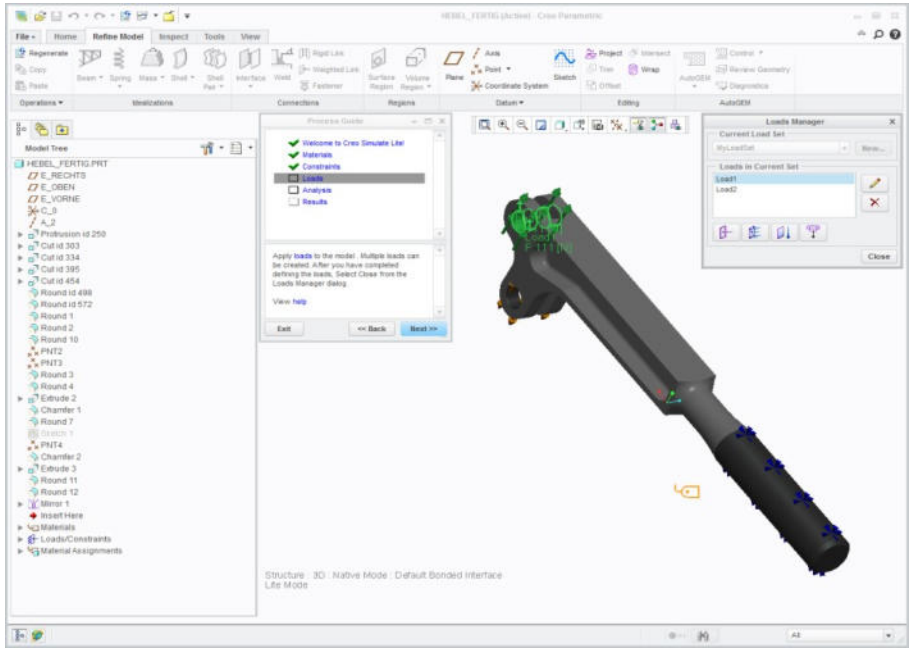
Funktionen in Creo Simulate Lite (Creo Foundation Pakete)

- Linear Static only / Steady State Thermal Analysis (Single Pass Convergence)
- Solid Models only – no Shells, no Beams, Springs, ...
- Parts or Assemblies – limited to 200 Surfaces (A Cylinder has 4 Surfs – 2 End-, 2 Cylindrical-Surfs)
- Only bonded Interfaces in Assemblies (no Contact, no free Interface)
- Loads: Force/Moment, Pressure, Gravity
- No Surface or Volume Region Capability
- Material: linear isotropic only
- Results: NO limitations
- Linear Static Analysis only (incl. Contact)

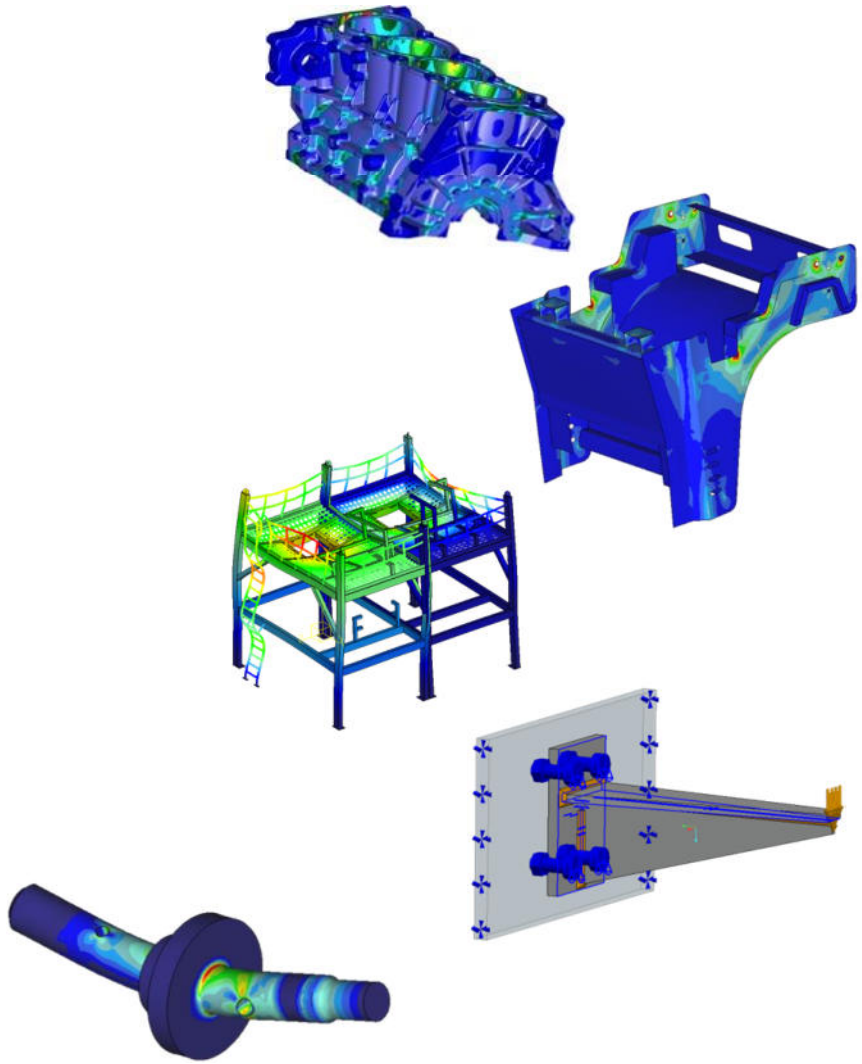






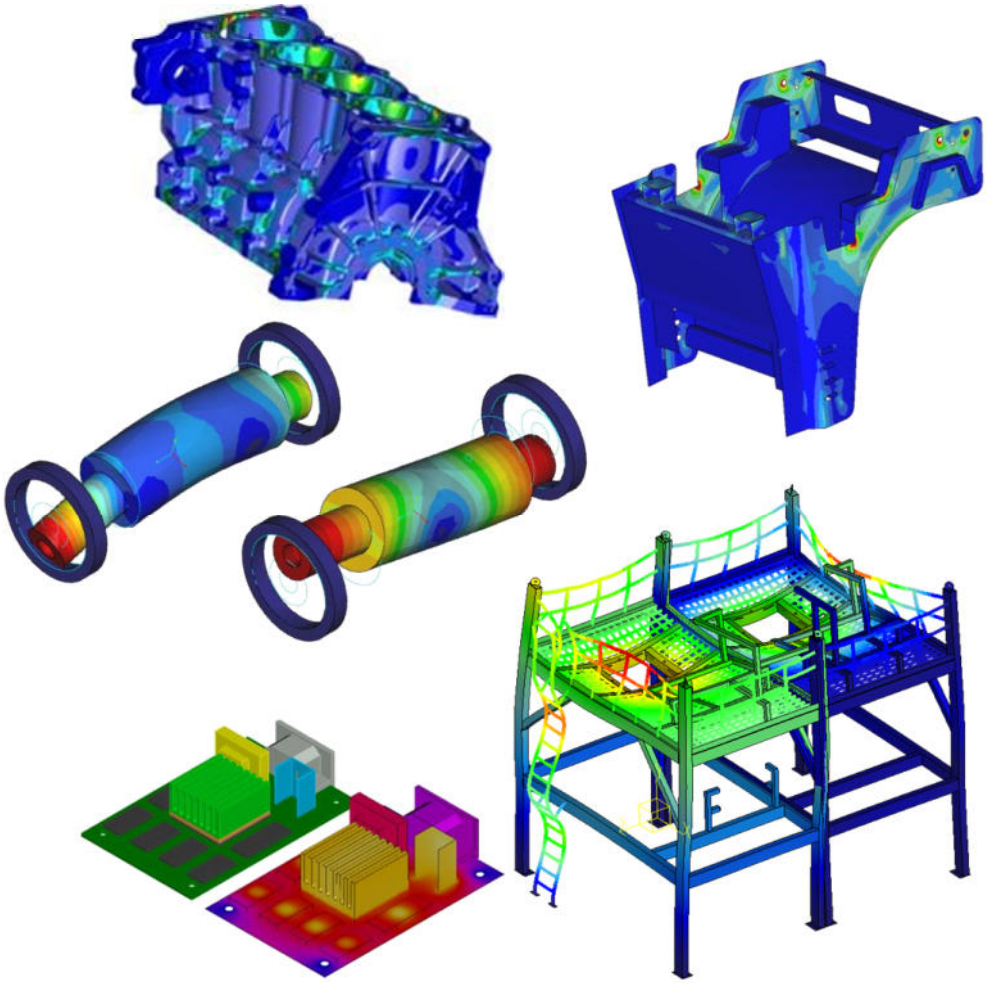
Funktionen in Creo Simulate Elite (Design Essentials Pakete)

- Mirror- / Cyclic Symmetry / Inertia Relief Constraint
- Material: linear isotropic only
- Beams
- Spot-, End- and Perimeter-Welds
- Simple Shells / Masses / Fasteners / Springs (to Ground)
- Rigid Links (NO weighted Links), NO Cracks
- Interfaces in Assemblies: Bonded / Free / NO Contact
- Loads: NO limitations
- Surface and Volume Region: NO limitations
- Meshing: NO Mapped Mesh / Thin Solids / Prismatic Elements
- Results: NO limitations
- Load Transfer from MDO (Mechanism Dynamics
- Option)
- FEM-Mode (Standard-Mesher)



Funktionen in Creo Simulation Extension

- Static Analysis (incl. Contact)
- Modal Analysis
- Buckling Analysis
- Steady State Thermal Analysis
- Sensitivity-Studies / Optimization - Studies
- Mirror- / Cyclic Symmetry / Inertia Relief Constraint
- Material: linear isotropic only
- Beams
- Spot-, End- and Perimeter-Welds
- Simple Shells / Masses / Fasteners / Springs (to Ground)
- Rigid Links, weighted Links, Cracks
- Load Transfer from MDO (Mechanism Dynamics Option)
- FEM-Mode (Standard-Mesher)



Funktionen in Creo Advanced Simulation Extension

- Capabilities of Creo Simulation Extension (or Creo Simulate)
- Large Displacement Analysis(incl. Contact, Non-linear
  Material, Snap-through)
- Pre-stressed Analysis (static, modal)
- Dynamic Analysis (Time, Frequency, Random, Shock)
- Transient Thermal Analysis
- 2D-Models (Axisymmetric, Plane Stress / Plane Strain)
- Transversely Isotropic / Orthotropic / Hyperelastic /
  Elastoplastic Material
- Advanced Shells / Masses / Springs / Screws
- Advanced Meshing Capabilities
- Rigid / Weighted Links
- Independent Mode
- FEM-Mode (“INRIA”-Mesher)