

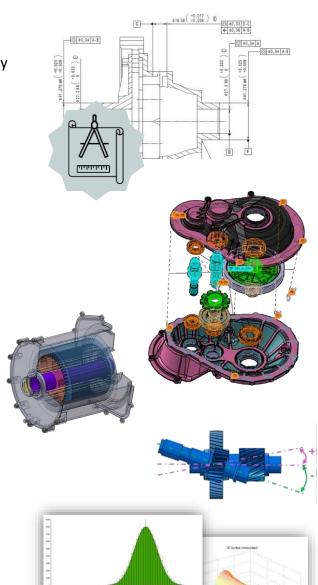
Project example: Tolerance management of an EDU

Objective:

Tolerance management to ensure functionality, quality and safety

Implementation:

- Takeover of components, drawings and requirements from the customer
- Drawing verification according to current ISO-GPS standard with regard to stable reference systems and function-, production-, inspection- and cost-appropriate tolerancing
- 3D tolerance simulations for optimization and validation of the design in the corresponding development stages
- Simulation-based validation of assembly processes in coordination with the customer's production experts
- Simulation-based validation of functions and tightness, taking into account operational effects
- Safeguarding of operating conditions with regard to:
 - Clearance and creepage distances of HV components in static and dynamic operation (charging & driving)
 - Influences such as temperature, load conditions and application scenarios
 - Special quality requirements, e.g. transmission acoustics in e-vehicles



Result:

- Creation of stable & functional reference systems
- Detailed simulation reports
- Identification of improvement potentials
- Derivation of measures

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