Bearing Design for Dynamic Operating Conditions

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Abstract:

Rolling Element Bearing design typically starts with load and life rating to assess, if a bearing can operate during a required load scenario. These two basic rating factors are well suitable for quasi-static steady state operating conditions. If dynamics is an important part of the operating scenario, additional ratings and assessments are important. Especially an assessment of the bearing cage, bearing friction, effects of too low load and noise may be important classifications for a suitable bearing. The talk will go into details of the mentioned effects and their assessment strategies.

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Biography:

Dr. Hannes Grillenberger 2011 – PhD in physics 2012 - Start working at Schaeffler at the Rolling Element Bearing Fundamentals department 2013 – now: NVH Simulations of Rolling element Bearings 2017 – Senior specialist NVH calculation of Rolling Element Bearings



