



Ball Rod - Development of a Rolling Contact Fatigue Test Bench

Motivation

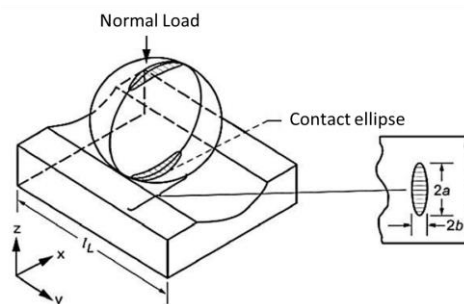
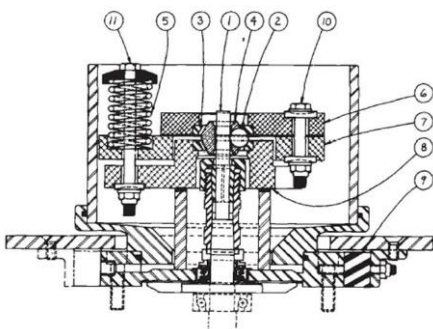
The rolling fatigue mechanism is responsible for the failure of machine elements widely used in machinery and transport vehicles. Such failures can be defined as cracks or delamination, usually limited to the layer near the surface of the bodies in sliding or rolling contact. To evaluate the fatigue life of bearing materials it is ideal to use equipment with the closest to the final application or representative test benches.

Objective

Planning the revitalization and optimization of a bench for performing rolling contact fatigue tests with the "ball-rod" concept

Approach

Evaluation of existing equipment, definition of test requirements, definition of required instrumentation, mechanical and electronic upgrade design and final revitalization.



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