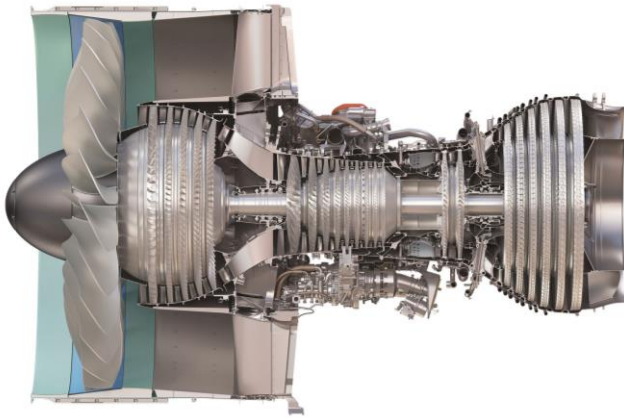


Master Thesis Task Description

Design and Drawing of a Traverse System for a Hot Streak Generator

High-bypass ratio turbofan engines are commonly employed in aircrafts. For higher bypass ratio, turbine transition ducts between high pressure system (HP) and low pressure (LP) system have to be designed as short as possible with larger radial offsets to avoid increase in engine weight but without decreasing performance. Past and recent research have been performed on this topic.



GP7200 Engine

The main aim of this work is to generate drawings with the objective to manufacture a representative turbine test setup that will be installed in the Transonic Test Turbine Facility at Graz University of Technology. The thesis is part of a project in cooperation with GE and MTU Aero Engines. Detailed heat flux measurements will be carried out at the hub of the turbine center frame with the use of IR-Camera technologies.

Supervisor:

Dott. Dott. Mag. dr Federica Farisco

Tel. +43 (316) 873 - 7228

E-mail: federica.farisco@tugraz.at