



CASR of the Czech Technical University in Prague is the research centre for aerospace technologies, especially for testing aircraft engines.

We offer access to 4 ground test facilities, including the necessary expertise and know-how to industrial companies. The flying test bed based on King Air 350 is currently being completed. New cooperations are welcome.

OUR SERVICES INCLUDE:

- Model simulations design and set up Experimental data analysis
- Noise pollution reduction
- Emission reduction
- FEM Ansys, Abaques, Comsol
- EMA Matlab, Comsol
- CFD Ansys, Comsol
- Thermodynamics NPSS, GasTurb, GAMMA, Matlab
- Training:
 - Dynamic engine models configuration
 - Analysis of temperature deformations and rotor systems
 - Design of control algorithms

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https://fs.cvut.cz/casr



Core test cell (DACS channels 800 LF+200 HF, linear bearing/thrust measurement, inlet silencer, secondary and heating inlet)



Dynamometric test cell (3281 kW, 3500 min⁻¹, DACS channels 800 LF+200 HF)



Two Propeller test cells (1500 kW, 22 kN, 200 m³/s, 750 °C, DACS channels 800 LF+200 HF)