

## Third Laureate Applied Research



- **Project title:** Acceleration Test Equipmnet
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- **Executive Organization:** Iran Aviation Industries Co.

### Abstract:

The lives of Air-Crew as well as passengers and a successful mission, highly depends on the life and performance of the components in anaviation system in various enviromental and flight conditions.

As it is not possilbe to test these components and such system in real conditions, equipments are required to simulate and generate these environmental and working conditions. Amongst these conditions are very low and very high pressures, low and high temperatures, humidity and most importantly acceleration.

The manufactured equipment can produce accelerations up to 25G and can accommodate components up to 1 m<sup>3</sup> in volume and 120 kg in weight under hydraulic pressures up to 3000 PSI.

All measurements are taken via a computerised wireless system.

The KIA Laureates of the  
25<sup>th</sup> Khwarizmi International Award  
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