

Project Title

**Turbine Flowmeter and Fuel
Nozzle Test Bench**

Third Winner

Innovation

Contributor: Turbine Engine
Manufacturing - Iran Aircraft Industries
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Abstract

This project seeks to achieve the designing technology and manufacturing the operation test device for fuel sprinkling in order to measure various parameters such as flow, pressure, nozzle angle, nozzle pattern and turbine flowmeter for accurate measurement of flowing fluid (PPH). The outputs of this project caused increase of motor manufacturing with an acceptable quality, self-sufficiency for the country, remarkable added value and finally it led to appearance of an indigenous technology.

Advantages

- It can measure the fuel sprinkling angle optically
It is possible to laser cut the sprinkle cone (first time in the world)
 - It customizes the utilization of standard parts and components existing in our local market to meet economic saving
 - Instantaneous flow measurement using computer
- Creation of technology for manufacturing accurate and sensitive components