

Specifications for Dynamometer Testing System:

NASA/LaRC has a requirement for one (1) dynamometer testing system to be used to determine motor performance under various loads, speeds, temperature range and motor's life time test, and that shall meet the minimum following specifications.

The system shall include the following features:

- Dynamometer
- Dynamometer brake controller
- Software
- Interfaces between dynamometer and controller/software
- Digital power analyzer

Specifications:

- Dynamometer shall have torque measurement up to 800mNm – 1 Nm
- Dynamometer controller shall be programmable
- USB interface between computer and dynamometer controller
- Software (with license included) shall analyze motor performance
- Digital power analyzer shall determine input power to the motor and be compatible with the dynamometer software