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## 4 Quadrant Dynamometer Test System

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### FEATURES

- Easy to use graphical user interface.
- Programmable tests can be saved for future use.
- Acquired data can be saved to spreadsheet file .
- Quick mount fixtures for easy setup.
- Speeds from 0 to 6000 RPM, torque levels from fractions of a Nm up to 25 N-m.
- A wide range of options for data acquisition include torque, current, temperature, voltage, etc.
- Hardware and/or software filtering available.

### DESCRIPTION

The Magtrol Custom 4Q Dynamometer is designed with custom software to perform user programmable tests on a wide variety of motors.

Acquired data can be saved in tab separated variable text file format. Programmed tests can be saved for future use.

The programable test types that can be run include:

- Measure drag torque, windage and bearing friction with a powered off test motor.
- Evaluate the smoothness of a motor as it runs at variety of speeds and torque load levels.
- Study the response of a motor to changes in speed and torque load.
- Measure the back emf of a motor while driving it at programmable speeds.
- Monitor the temperature of a motor running at various speeds and torque loads.
- Automated completion of complicated, multi-step tests



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