



## AEROSPACE MOTOR CUSTOMIZED TEST SYSTEM

**MAGTROL DESIGNED THIS CUSTOM MOTOR TEST SYSTEM FOR THE TESTING OF VARIOUS AEROSPACE MOTORS FOR BOTH COMMERCIAL AND MILITARY APPLICATIONS.**



Since both AC and DC motors are tested with this system, the customer elected to apply two separate control consoles — one for AC and one for DC. Each console is equipped with DSP 6001 High-Speed Programmable Controller, power analyzer, rack mounted PC and color lazer printer.

The custom dynamometer table holds 5 dynamometers, each with its own dedicated motor fixture and individual vibration isolation. Elevated power connection panel houses separate AC and DC outlets for each power source. Three Model 5500 Manually Controlled Switchboxes are rack mounted below the table for quick and easy selection of the active dynamometer without moving cables. A PC I/O card, selector switches, relays, and related wiring are incorporated into the system to automate testing.

Easy to use, Magtrol M-Test Software enables the user to quickly set test parameters and sequences in torque or speed control, curve mode, closed loop or open loop. Test setups can be saved and recalled any time. It allows the acquisition of complete testing data (torque, speed, current, efficiency, power input, power output, temperature, resistance), temperature rise and related data during motor operation. M-TEST has the flexibility to test a variety of motors in a multitude of configurations. The data generated from this user-friendly program can be stored, displayed and printed in tabular, graphical formats or universal data reports and is easily imported into a spreadsheet. Clear and professional reports can be issued.

Need specific Motor Testing ? Do not hesitate to challenge us !