

APPLIANCE MOTOR CUSTOMIZED TEST SYSTEM

MAGTROL DESIGNED THIS CUSTOM MOTOR TEST SYSTEM FOR THE TESTING OF FACE MOUNT MOTORS USED IN APPLIANCES SUCH AS WASHERS AND DRYERS.

This system is equipped with a Magtrol HD-810 Hysteresis Dynamometer, DSP 6001 High-Speed Programmable Controller, TM Series In-Line Torque Transducer, power analyzer, custom motor fixture to support face mounted motors, rack mounted PC, high mass flywheel to simulate reversing inertia and motor-driven variable transformer.

The dynamometer table features a customized safety enclosure that surrounds the dynamometer, torque transducer, coupling and the motor under test. The enclosure slides along the table for easy access to the equipment and locks in place during testing. The enclosure's side panels are composed of two 0.032 inch stainless steel skins bonded to a Dyneema® core to provide the ultimate safety guard. The front of the enclosure is a high impact polycarbonate door which allows for visibility of the motor and dynamometer during a test. As an extra safety precaution, electrical interlocking switches are built into the system guarding. The safety locks must be secured in order for a test to initiate. The test will abort if any of the sensors detect a lock has been opened.

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, powerinput, 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 !

