
Customized Test System for Electric Pump Motors

APPLICATION

This Custom Motor Test System is designed for the testing of 5 different sized electric motors used in various sump, utility, sewage, well, pool and pond pumps.

COMPONENTS

- Custom Dynamometer Table
- HD-705 Hysteresis Dynamometer
- DSP6001 High-Speed Programmable Dynamometer Controller
- M-TEST 4.0 Motor Testing Software
- 6530 Three-Phase Power Analyzer
- AMF-2 Adjustable Motor Fixture
- Metal Bellows Miniature Coupling: with clamping hub and drawn cup roller clutch/bearing assembly
- Motor-Driven Variable Transformer and Controller

CUSTOM TABLE

All of the components mentioned above are mounted on a versatile table that can be easily reconfigured and retrofitted to any Magtrol dynamometer. The cart is constructed from lightweight aluminum with casters for smooth mobility, and is sturdy enough to support even the heaviest of Magtrol dynamometers. When at rest and in operation, hand-operated leveling jacks, with rubber pads for vibration control, lift the casters from the floor to provide a solid foundation.

For this CMTS, Magtrol's standard dynamometer table is enhanced with many customized features. Custom end caps,



for positioning the rotor and stator on the customer's 2-piece motors, are added as well as adaptors that are designed so that the same coupling may be used for each of the 5 different types of motors to be tested. A high-current electrical connector is included for easy connection to the motor and for safety, an emergency stop button and acrylic motor guard complete the design.



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