

Customized Test System for Spa Pumps & Blowers

APPLICATION

Magtrol designed this Custom Motor Test System to test a variety of motors, pumps and blowers used in whirlpool/jetted spas.

COMPONENTS

- Custom Dynamometer Table with rack mounts
- HD-705 Hysteresis Dynamometer with short base plate
- DSP6001 High-Speed Programmable Dynamometer Controller
- MT-TEST 4.0 Motor Testing Software
- 6530 Three-Phase Power Analyzer
- AMF-2 Adjustable Motor Fixture
- PT 25 Grooved Base Plate
- Coupling Guard
- Motor-Driven Variable Transformer and Controller
- PC, Keyboard and LCD Monitor with adjustable arm



CUSTOM TABLE

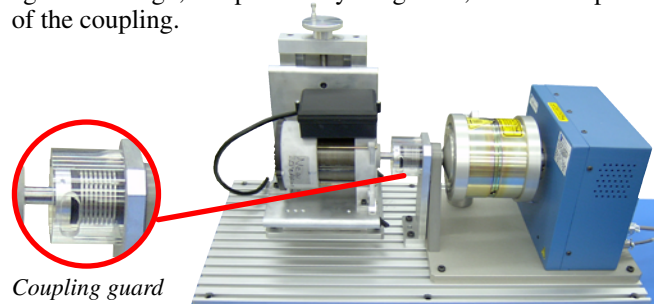
The dynamometer and motor fixture are mounted onto a grooved base plate for secure, in-line testing. This test assembly is affixed to a sturdy, semi-enclosed dynamometer table, customized with 19" rack mounts to accommodate the supporting electronics. Another feature added to this table is the adjustable monitor arm—used for raising, lowering, tilting or rotating the included LCD monitor to any viewing position.

With the variable transformer mounted under the table, the entire system is self-contained. This all-in-one system can be easily moved to multiple testing stations, due to the lightweight aluminum construction of the table and swivel casters. 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.

SAFETY FEATURES

As with most Custom Motor Test Systems designed by Magtrol, Inc., this CMTS incorporates an emergency stop button, which shuts down all power to the system during problem situations.

An acrylic coupling guard added to the dynamometer assembly protects the system's user while a test is in operation—shielding against the high, and potentially dangerous, rotational speeds of the coupling.



Coupling guard



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