Electric Motor Test Systems

www.PowerTestDyno.com
PTD - Electric Motor Test System 125/250

Power Test offers the PTD-EMTS125 and PTD EMTS250 for accurate, affordable, and easy, load-testing of small electric motors. Complete with Power Test’s industry leading water brake dynamometer and an integrated cooling system, these electric motor test systems allow for high volume efficiency or continuous-duty endurance testing for motors up to 250 HP.

Featuring an adjustable lift-table, and flexible coupling adapter sets, this test system is capable of testing a wide range of electric motors. The maneuverability of the self-contained units allow for easy positioning within a test area and convenient storage while not in use. Innovative engineering, coupled with manufacturing excellence set the PTD-EMTS apart and Make Your Testing Easy and Convenient.

Features and Benefits

- The adjustable lift table features a 5”-14” centerline height for a wide range of testing capabilities
- A manual lift table adjustment mechanism allows for quick changes in high volume testing environments
- Equal absorption capabilities in clockwise and counter-clockwise rotations
- Integrated VFD water pump for precise control of torque and speed
- Integrated water holding tank for water recirculation
- Automatic temperature control for water supply and drainage
- Crated dimensions of 96”L x 48”W x 54”H and weighing 2,000 lbs

Double U-Joint Drive Shaft and Shaft Guard

A Power Test Water Brake features equal absorption in both CW and CCW directions

Adjustable lift tables make testing electric motors of different sizes quick and easy. (5”-14” Centerline)
The X-Series EMTS Water Brake Dynamometers are used for power verification, vibration testing, quality assurance, endurance, and certification testing of electric motors. The X-Series is offered in a number of sizes with a hydraulic lift table making it compatible with a wide range of electric motors.

Accurate analysis is paramount in establishing confidence in your products and can only be achieved through loaded tests. The X-Series EMT dynamometers give you the ability to apply a load to your electric motors and the assurance that they will perform in real-world situations.

- The ability to test a wide range of electric motors on the same dynamometer
- Low-inertia and high absorption characteristics in a compact package
- Servo inlet control valve allows for low minimum horsepower
- Equal absorption capabilities in either direction of rotation
- Choose a fabricated steel sub-base assembly (i.e. 32” (81.28cm) dyno centerline height) or an adjustable hydraulic lift table
- Removable bearing and seal housing to facilitate field servicing without the need for disassembly of the absorber
- Can be used to test AC or DC Motors
- Utilize PowerNet EMTS Data Acquisition and Control Software for control, analysis and documented test records.

The Power Test Hydraulic Lift Table is a variable height mounting platform for the dynamometer and accessories. It provides for dynamometer centerline height alignment relative to the centerline height of the unit under test.

**Features:**
- An electro-hydraulic scissor lift with 6,500 lbs (2949 Kg) capacity
- Capable of a vertical travel distance of 36 inches (914 mm)
- Includes scissor lift assembly safety skirt
- Includes exhaust water plumbing kit
- Includes load valve plumbing kit
Introducing PowerNet EMTS, Power Test’s complete data acquisition and control package for electric motor testing. Featuring the upgraded PowerNet 3.0 interface and functionality, PowerNet EMTS allows you to run your electric motor through a set of easily reproducible patterns. With easy to read on-screen graphics, templated auto-run test patterns, and customizable printed reports, assessing your electric motors is easier than ever.

PowerNet EMTS now features internal logic providing end-users with easy to read efficiency calculations directly on their display. With versatile testing patterns, users can analyze their electric motors in order to verify a motor nameplate, create their own, or assess functionality pertaining to slip, output efficiency, or power factor. PowerNet EMTS for electric motors Makes Your Testing Easy.

Easily Analyze Key Parameters:
- Speed (RPM) (@ Frequency)
- Efficiency
- Power Output (@ input)
- Slip
- Power Input (@ output)
- Amperage
- Current Balance
- Temperatures

Features:
- Manual, Set Point, and Automated control methods of torque, power, and motor speed as well as to a current draw set point
- Separate inputs for AC or DC voltages and currents
- Robust, non-proprietary, industrial data acquisition and control hardware for quick and cost-effective repairs
- Display, record, save and print torque, power, speed, temperatures, voltage, current, and a variety of optional sensor inputs, plus calculated channels
- Easy to configure displays, reports, and automated patterns
- All channels easily configured for sensor name, units, and alarm values using pull-down menus.
- System includes: Controller, PowerNet Commander PC w/ flat screen monitor, keyboard, mouse, printer, sensors for channels ordered and all connections.