



Actual products may differ
from images shown

The 500E test stand is designed to meet your needs for testing medium and heavy-duty transmissions and torque converters for off-highway and other commercial vehicles.

The 500E accommodates in-line or drop box model transmissions mounted in a direct remote or mid-ship configuration, with or without integrated torque converters. This compact unit is designed and built to our high standards to give you years of reliable performance verification and quality assurance testing of automatic and powershift transmissions.

Features

- Predesigned to Accept Many Options – From basic to comprehensive, easily configurable to meet your exact testing needs
- Variable Speed, High-efficiency AC Motor – Quiet operation and precise power
- Various Drive Motor Options to Fit Your Needs – 100HP (75kW), 200HP (149kW), 300HP (224kW)
- Various Available Voltages to Match Local Services – 480 VAC or 380 VAC
- Drive Load Sensing – Allows reduction of drive motor torque to better simulate engine output
- (10) Ten - Pressure Taps – Monitor all relevant pressures
- Direct or Remote-Mount SAE Bell Housing – Can be adapted to accommodate all SAE sizes
- Modulator Control – Simulates “full” or “closed” throttle conditions

Options:

- Heat Exchange Cooler Kit – Water or air cooled w/optional flow capacities, and temperature measurement
- Remote Mounting Kit – Accommodates remote transmission testing
- Eddy Output Load Unit – Allows application of controlled output load to simulate real world operating conditions and to expose vibration, slippage and noise issues
- Work Table and Sump – 6,000 lb support capacity with integrated oil collection sump and reservoir
- Oil Reservoir Tank – 130 g (492 l) reservoir provides preheated, filtered oil, and clean oil storage
- Auxiliary Pump – 60 gpm (227 lpm) pump with variable flow for torque converter simulation, lube and expanded testing capabilities
- Fill/Drain/Kidney Kit – Allows oil drain and reuse, and continuous filtration
- Diagnostic Flow Loop Kits – Provide additional flow loops with optional capacities for all appropriate hydraulic circuits
- Low-flow Meter Kit – 2 gpm (7.6 lpm) or 5 gpm (19 lpm)
- Stand-Alone Oil Preheat and Supply Cart – Allows use of multiple oil types on test stand
- SAE Housing Adapter Rings – From SAE 00 to SAE 3

Optional Electronic Shift Consoles

- **ASC Shift Cart**
 - » Primarily used by non-dealer service centers.
 - » Easily switches between different shift profiles using the touchscreen computer.
 - » Eliminates the expense and need for multiple TCUs. Does not require an OEM TCU for reprogramming.
- **ESC Shift Cart**
 - » Primarily used by factory authorized service centers with ability to flash TCUs.
 - » OEM software (not included), can connect directly to the console to perform diagnostics, read and reset trouble codes and reflash the TCU with the standard 9-pin connector.
 - » Oversized enclosure can house multiple TCUs

PowerNet TD Data Acquisition & Control System



PowerNet TD is designed to provide a comprehensive, easy to use data acquisition and control system. PowerNet TD utilizes a Windows-based computerized data acquisition system to monitor and record speeds, torque, pressures, temperatures, flow rates and shift events.

In addition to advanced monitoring and recording, PowerNet TD enables users to run an automated test procedure for electronically controlled transmissions. This not only ensures consistent repeatability of test procedures, but provides a record of performance parameters exhibited during a test.

Designed for ease of use, PowerNet TD allows for easy configuration of instrumentation, operator designated warnings for high/low limit and operator customized full-feature data reports. All reports are generated in a standardized Portable Document Format (PDF).

Specifications

Electric Motor Selections

*Machine FLA with all configuration options

- 500E-100
 - » 100 hp (75 kW): 380 VAC - *203 FLA
 - » 100 hp (75 kW): 460 VAC - *170FLA
- 500E-200
 - » 200 hp (149 kW) 380 VAC - *318 FLA
 - » 200 hp (149kW) 460 VAC - *286 FLA
- 500E-300
 - » 300 hp (224 kW) 380 VAC - *435 FLA
 - » 300 hp (224 kW) 460 VAC - *407 FLA

Maximum Input Torque


- 500E-100 294 lb-ft (399 Nm) up to 1,785 rpm
- 500E-200 588 lb-ft (789 Nm) up to 1,785 rpm
- 500E-300 883 lb-ft (1,197 Nm) up to 1,785 rpm


Bell Housing

- SAE 1, SAE 0, or SAE 00

Maximum Speed

- 4,000 rpm (bi-directional)



 **Power Test**

Power Test, LLC. is an industry leader in the design, manufacture and sale of dynamometers, heavy equipment testing systems and related data acquisition and control systems. Since 1976, Power Test has provided specialized test equipment to manufacturers, rebuild facilities and distributors in the mining, oil & gas, power generation, marine, trucking, construction, rail and military markets in over 90 countries on six continents. Our headquarters and manufacturing operations are located in Sussex, WI with sales representatives worldwide.