PowerTest

700
Hydraulic Component Test Stand

Actual product may differ from image shown

The 700 Hydraulic Component Test Stand (HCTS) is designed to test heavy-duty, off-highway, closed or open loop pumps. The 700 gives you the capacity to confidently and efficiently verify the quality of your work. Test new or rebuilt pumps, motors, valves, and cylinders independently, and communicate their quality to your customers with the help of PowerNet TD, data acquisition software for transmission and hydraulic systems. The 700 HCTS is engineered to provide efficient continuous-duty pump performance verification, quality assurance, and component certification.

Features

- Convenient work height with adjustable mounting track
- 100, 200 or 300 hp (75, 149, or 224 kW) drive-motor options available
- Variable Frequency Drive (VFD controlled drive motor)
- 200 gallon (757 l) high-mount hydraulic oil reservoir for flooded pump supply
- Combined kidney filtration and cooling loop for continuous cleaning
- Removes the testing bottleneck in transmission hydraulic shops with dual purpose test stands
- Drive speed is controlled from a single potentiometer for simplified operator control
- Remotely located electrical control box allows for flexible facility design
- PowerNet TD available for automatic data acquisition and reporting

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.

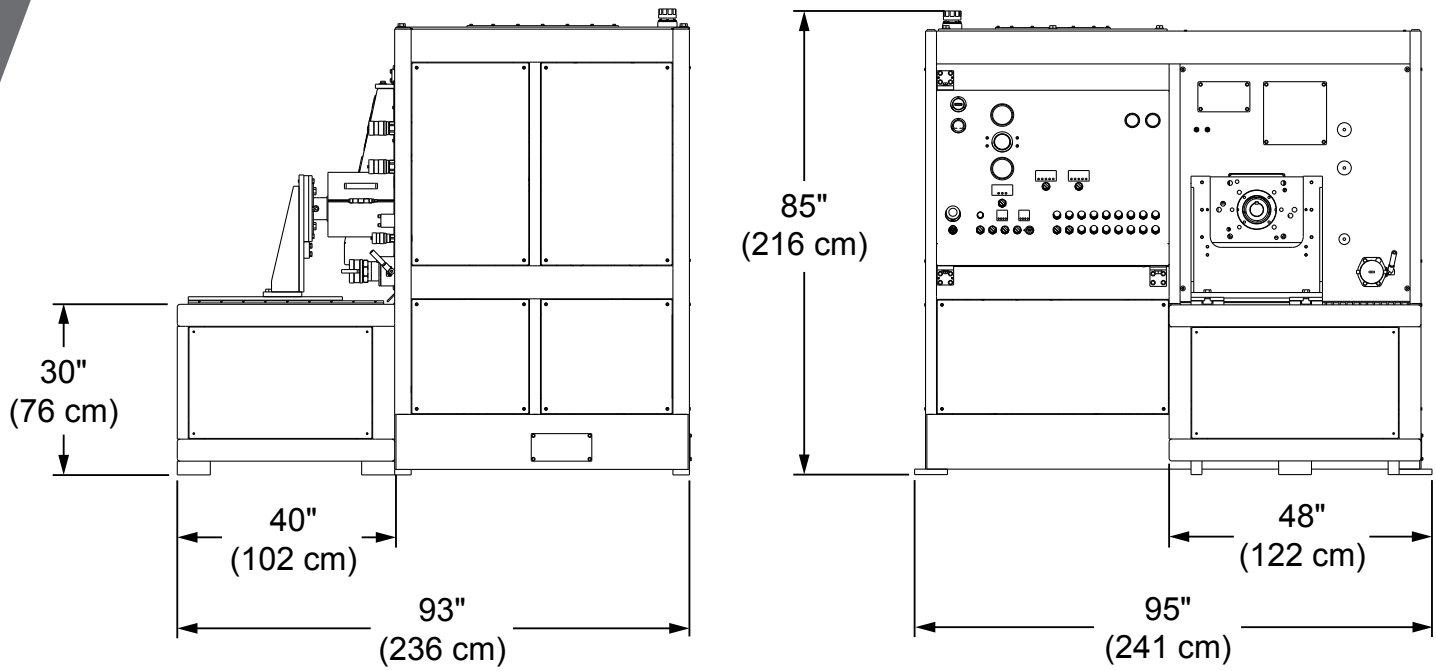
In addition to advanced monitoring and recording, PowerNet TD enables users to run an automated test procedure for electronically controlled transmissions. This not only ensures consistent repeatability of test procedures, but provides a record of performance parameters exhibited during a test.

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).

Capabilities

- **Parameters:**
  - » Flow
  - » Pressure
  - » Load
  - » Temperature
  - » Speed
  - » Case Flow
  - » Input Torque
  - » Mechanical Efficiency
  - » Hydraulic Efficiency
- **Testing:**
  - » Gear Pumps
  - » Vane Pumps
  - » Hydrostatic Pumps
  - » Motors
  - » Hydraulic Cylinders
  - » Hydraulic Valves

Specifications



Electric Motor:

- 100 hp: 460 VAC – 170 FLA
  380 VAC – 203 FLA
- 200 hp: 460 VAC – 286 FLA
  380 VAC – 318 FLA
- 300 hp: 460 VAC – 407 FLA
  380 VAC – 435 FLA

Maximum Input Torque:

- 100 hp: 294 lb-ft (399 Nm) up to 1,785 rpm
- 200 hp: 588 lb-ft (797 Nm) up to 1,785 rpm
- 300 hp: 883 lb-ft (1,197 Nm) up to 1,785 rpm

Loadable Flow Loop:

- 100 gpm (378.5 l): 0 - 6,000 psi (41,269 kPa) capable, 0 - 100 gpm (0 - 378 lpm) flow loop with manual load valve incorporating a 6,000 psi (41,269 kPa) pressure gauge and turbine flow meter with digital panel display for monitor pump outlet readings

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.

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