





A versatile test stand designed for testing heavy-duty off-highway hydraulic components, the 900C Hydraulic Test Center features some of the most advanced technology on the market today. Designed for complete pump, motor, and hydrostatic transmission testing, the 900C is much more than a standard transmission test bench.

The 900C provides a durable and reliable platform for performance testing transmissions, torque converters, gear pumps, vane pumps, hydrostatic pumps, hydraulic motors, cylinders, and valves. Performance testing results in reduced operating costs due to rebuilding errors and the possibility of critical failure in the field. Equipment dealers can realize more profitable maintenance contracts and increased customer satisfaction by utilizing performance testing. Additionally, the 900C features an independent closed loop hydrostatic drive for a contamination free drive system, independent constant display digital instrumentation for easy readability, and industrial grade glycerin filled pressure gauges.

Capable of detecting shift points and mechanical binding, identifying vibrations, diagnosing and locating leaks, measuring pressure and flow, clutch leakage and output torque (optional), the 900C Hydraulic Test Center is one of the most comprehensive hydraulic testing tools on the market.

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Features and Benefits

Every Model 900C Hydraulic Test Center is custom built to your specifications. Our in-house manufacturing allows for short lead times, allowing you to begin testing as soon as possible

- 300/400/450 hp electric motor upgrades available
- · On-site training and commissioning
- · Interior soundproofing
- · Power lift assembly facilitates easy maneuvering of the hydraulic drive motor/drive shaft for alignment with the test component
- Safety and Maintenance Features:
 - » Rear door access and ample interior lighting for added visibility and safety during maintenance
 - » Roof access to filters for easy maintenance
 - » Remote / secondary monitor mount

Optional Features

- Soft Start Contactor:
 - » Aids in reducing peak current draw during the motor start cycle
 - » Reduces voltage drop ("brown out") during initial start
 - » Allows usage with a generator
 - » Works with 380, 400, 415, 480 VAC input requirements 575 VAC system available
- Dual centrifugal oil cleaning circuit with 8.0 gpm (.008 lpm) pump provides optimum oil cleansing through a kidney loop system
- PowerNet TD offers full control and data acquisition for complete pump, motor, and hydrostatic transmission testing
- · Adapters available for most Caterpillar off-highway equipment
- · Optional Rectifier Manifold
 - » Allows for testing of closed circuit pumps
- Output Load, Eddy Current Absorber and stand:
 - » Trolley mounted capable of vertical and horizontal movement
 - » Continuous torque 525 lb-ft (711.80 Nm)
 - » Intermittent torque 1,470 lb-ft (1993.05 Nm)
- · Multi-location ladder for convenient machine-top access and maximum safety
- · Polycarbonate Sliding Safety Shield Used to protect operator from fluid splash and small projectiles
- Fully Automated system available

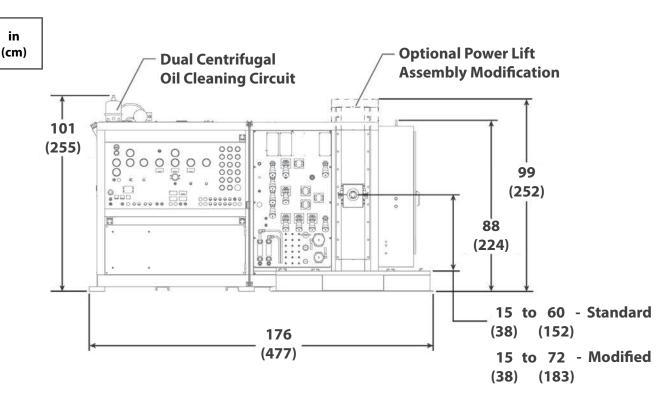


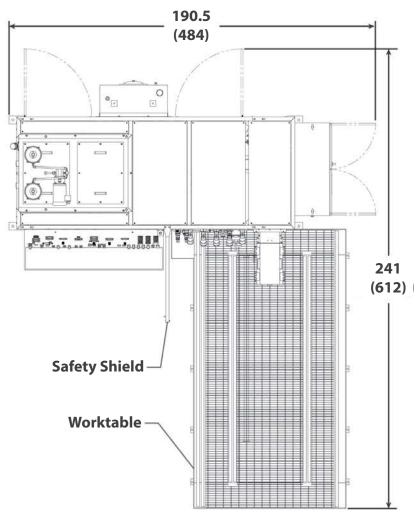
PowerNet TD Data Acquisition & Control System

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

Electric:

(Available Option) - Test centers utilize a soft-start starting method to reduced motor startup voltage drop

• 900C-300:

300 hp (223 kW): 460V/60 Hz - 500 amps
250 hp (187 kW): 380V/50 Hz - 500 amps

• 900C-400:

* 400 hp (298 kW): 460V/60 Hz - 600 amps
* 330 hp (246 kW): 380V/50 Hz - 600 amps

• 900C-450:

y 450 hp (335 kW): 460V/60 Hz - 700 amps
y 370 hp (276 kW): 380V/50 Hz - 700 amps

Hydrostatic Drive System:

Direction: CCW and CWMax Speed: 3,200 rpm

• Max Torque: 1,232 lb-ft (1,670 Nm)

Max Torque Speed Range:

» 900C-300: 0-1,270 rpm» 900C-400 / 900C-450: 0-1,760 rpm

Max Pressure: 6,090 psi (41,989 kPa)

Pump Displacement:

» 900C-300: 180cc» 900C-400 / 900C-450: 250cc• Motor Displacement: 250cc

Diagnostic Flow Loops:

· Loadable:

» 200 gpm: 0-200 gpm (0-757 lpm, 0-6,500 psi (44,816 kPa) flow loop with manual load valve and

10,000 psi (68,948 kPa) gauge for monitoring pressure

» 100 gpm: 0-100 gpm (0-378 lpm), 0-6,500 psi (44,816 kPa) flow loop with manual load valve and

two (2) 10,000 psi (68,948 kPa) gauges for monitoring pressure. Loop also includes a

500 psi (3,447 kPa) differential gauge to monitor margin pressure

· Non-Loadable:

» 100 gpm: 0-100 gpm (0-379 lpm), 0-6,500 psi (44,816 kPa) flow loop and a 10,000 psi (68,948 kPa) gauge for

monitoring pressure

» Low Flow: 0.5-5.0 gpm (2-19 lpm) flow loop - Optional electric flow meter add-on available

Hydraulic Fluid Supply Circuits:

• AUX **460V/60HZ:** 0-84 gpm (318 lpm)

380V/50HZ: 0-69 gpm (261 lpm)

450-6,090 psi (41,989 kPa) pressurized oil supply circuit with flow control valve, panel meter and

7,500 psi (51,710 kPa) gauge for monitoring pressure

• Supercharge: **460V/60HZ:** 0-31 gpm (117 lpm)

380V/50HZ: 0-25 gpm (94 lpm)

180-800 psi (5,516 kPa) pressurized oil supply circuit with 1,000 psi (6,895 kPa) gauge for monitoring pressure.

Optional flow control kit available for circuit

• High psi: 460V/60HZ: 0-3.6 gpm (13 lpm)

380V/50HZ: 0-3 gpm (11 lpm)

0-7,200 psi (49,642 kPa) pressurized oil supply circuit with 10,000 psi (68,948 kPa) gauge for monitoring pressure

• Pilot: 460V/60HZ: High psi pump provides pressurized oil supply for this 0-3.6 gpm (13 lpm)

380V/50HZ: High psi pump provides pressurized oil supply for this 0-3 gpm (11 lpm)

0-800 psi (5,516 kPa) circuit with 1,000 psi (6,895 kPa) gauge for monitoring pressure

• Lube: 460V/60HZ: High psi pump provides pressurized oil supply for this 0-8 gpm (30 lpm)

380V/50HZ: High psi pump provides pressurized oil supply for this 0-6 gpm (22 lpm)

0-65 psi (448 kPa) circuit with 200 psi (1,379 kPa) gauge for monitoring pressure



