

MODEL 900 HYDRAULIC TEST CENTER



Model 900 Hydraulic Test Center

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

The Model 900 provides a durable and reliable platform for performance testing transmissions, torque converters, gear pumps, vane pumps, hydrostatic pumps and hydraulic motors, cylinders, and valves. Performance testing results in reduced operating costs due to rebuilding error and possibility of critical failure in the field, equipment dealers can realize more profitable maintenance contracts and increased customer satisfaction. Additionally, the Model 900 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, and measuring pressure and flow, clutch leakage and output torque (optional), the AIDCO Model 900 Hydraulic Test Center is one of the most comprehensive hydraulic testing tools on the market.

Specifications:

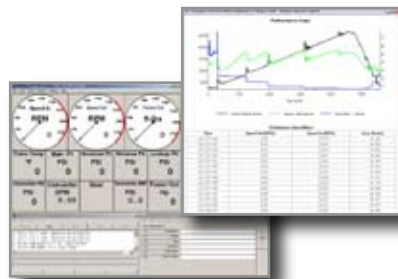
- 300 hp electric motor with a variable displacement hydrostatic drive pump and variable displacement, bidirectional hydrostatic motor capable of 1,214 lb/ft torque and 3,400 rpm.
- Main aux flow circuit: 0-60 GPM (227 L/min) up to 1,000 psi (69 bar).
- High pressure flow circuit: 0-22 GPM (83 L/min) up to 7,200 psi (496 bar).
- Lube flow circuit: 0-30 GPM (114 L/min) up to 65 psi (4 bar).
- Loadable recirculation loops (150 GPM) and (60 GPM) monitoring circuits with adjustable pressure reliefs.
- Non-loadable recirculation loop (60 GPM).
- 3 micron kidney loop filtration system.
- 2" and 4" pump suction ports from main reservoir.
- 300 gallon (1,135 L), elevated, heated main reservoir with (1) fixed tube, bundle-type heat exchanger, temperature display, visual sight gauge, and (2) 10 micron filters.
- 100 gallon (378 L) hydrostatic reservoir with (1) fixed tube, bundle-type heat exchanger, temperature display, visual sight gauge, and (1) 10 micron filters.
- Worktable with 100 gallon (378 L) sump capacity, automatic/manual pump, and (1) 10 micron filter.
- 15 pressure taps and 15 liquid-filled pressure gauges to monitor components under test.
- **12 Month Warranty on Materials and Workmanship**

PowerNet TD Data Acquisition & Control System

Based on the popular PowerNet series of data acquisition and control systems, PowerNet TD is designed to provide a comprehensive, easy-to-use data acquisition and control system for all AIDCO customers. 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 AIDCO 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 simple configuration of instrumentation, operator designated warnings for High/Low limits, and operator customized, full-feature data reports. All reports are generated in a standardized HTML format.



Features

Every Model 900 Hydraulic Test Center is custom built to your specifications. AIDCO's in-house manufacturing allows for short lead times, allowing you to begin testing as soon as possible. Options range from Eddy current load unit to computerized data acquisition and control with PowerNet TD. Additionally, custom finishes are available for every AIDCO product.

400 HP electric motor available

3-Micron Kidney Loop Filtration System:

- Dedicated circulation pump and motor.
- Filtration system includes electronic indicators.

Power Lift Assembly:

- Facilitates easy maneuvering of the hydraulic drive motor/drive shaft for alignment with the test component.

5 Days of On-site Installation, Training and Commissioning

Interior Soundproofing

Optional Features

PowerNet TD Data Acquisition and Control:

- Offers full control and data acquisition for complete pump, motor, and hydrostatic transmission testing.

Adapters available for most OEM manufacturers

Optional 300 GPM Recirculation Loop

Eddy current absorber and stand:

- Trolley mounted - capable of vertical and horizontal movement.
- Continuous torque - 525 lb. ft. (712 Nm).
- Intermittent torque - 1,470 lb. ft. (1,993 Nm).



Model 900 with worktable

Each AIDCO Hydraulic Test Stand is custom built to your exact specifications



Gauge and Pressure Tap Panels



Model 900 Hydraulic Test Center

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|--|---|
| Hydrostatic System | Bidirectional hydrostatic motor available in 300/400/450 HP configurations Max Torque: 1,214 ft/lbs torque Max. Speed: 3,400 rpm |
| Main Flow Circuit | 0-60 GPM (227 L/min) up to 1,000 psi (69 bar) 4 in. diameter analog pressure gauge (1,000 psi) 4 digit, constant display, digital flow indicator |
| Lube Flow Circuit | 0-30 GPM (83 L/min) at up to 65 psi (4 bar) Flow adjust valve |
| High Pressure Flow Circuit | 0-22 GPM (114 L/min) up to 7200 psi (496 bar) 4 in. diameter analog pressure gauge (10,000 psi) 4 digit, constant display, digital flow indicator |
| Loadable Recirculation Loop | 0-60 GPM (227 L/min) and 0-150 GPM (568 L/min) at up to 7,500 psi (448 bar) 0-150 GPM (568 L/min) at up to 6,500 psi (448 bar) |
| Non-Loadable Recirculation Loop | 0-60 GPM (227 L/min) at up to 6,500 psi (448 bar) |
| Kidney Loop Filtration System | 3 micron |

Contact AIDCO Test Systems for information on our full line of transmission testing equipment

In addition to the Model 900 Hydraulic Test Stand, AIDCO manufactures a wide range of transmission testing equipment, including electronic shift consoles, valve body test stands, and transmission test stands.



Model 900 shown with optional eddy current load absorber and stand

AIDCO TEST SYSTEMS - a division of Power Test Incorporated

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