



900 Hydraulic Test Center

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Model 900 Hydraulic Test Center

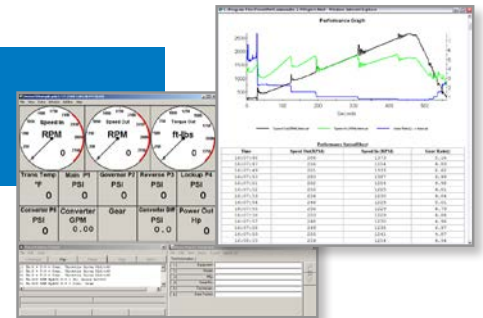
A versatile test stand designed for testing heavy-duty off-highway hydraulic components, the AIDCO Model 900 Hydraulic Test Center features some of the most advanced technology on the market today. Designed for complete pump, motor, and hydrostatic transmission testing, the Model 900 is much more than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

PowerNet TD Data Acquisition and Control System is available for all AIDCO Transmission and Hydraulic Test Stands.



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 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 HTML format.



Features and Benefits of the 900

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. Additionally, custom finishes are available for every AIDCO product.

300/400/450 HP electric motor upgrade 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 Caterpillar off-highway equipment

Optional 300 GPM Recirculation Loop

Eddy current absorber and stand:

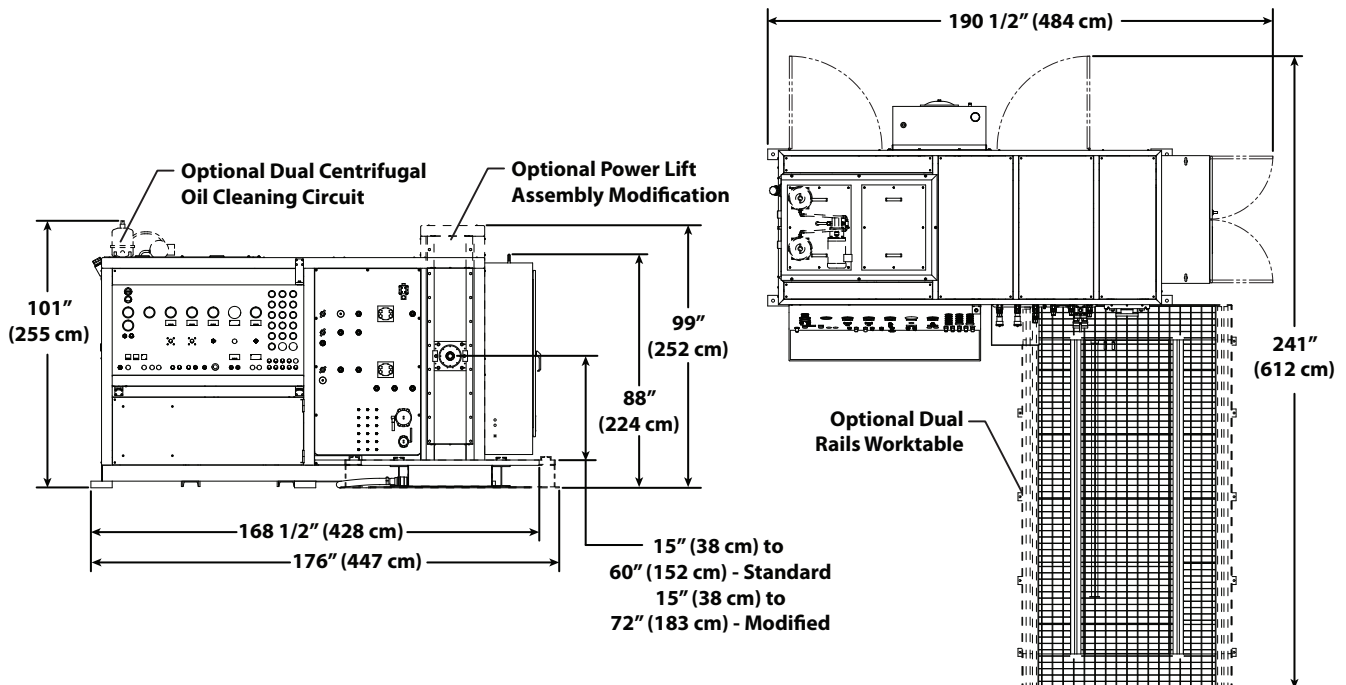
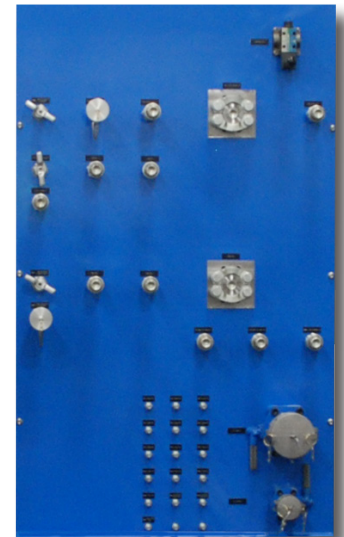
- Trolley mounted - capable of vertical and horizontal movement.
- Continuous torque - 525 lb. ft.,
- Intermittent torque - 1,470 lb. ft.



Model 900
with worktable



Gauge &
Pressure Tap
Panels



Model 900 Specifications

Electric	Test centers utilize a wye-delta starting method to reduced motor startup voltage. A soft-start option and other voltage options available.	900-300	300HP (223 kW) 460V/60 Hz - 500 Amps 250HP (187 kW) 380V/50 Hz - 500 Amps
		900-400	400HP (298 kW) 460V/60 Hz - 600 Amps 330HP (246 kW) 380V/50 Hz - 600 Amps
		900-450	450HP (335 kW) 460V/60 Hz - 700 Amps 370HP (276 kW) 380V/50 Hz - 700 Amps
Hydrostatic Drive System	Direction	CCW & CW	
	Max Speed	3,400 RPM	
	Max Torque	1,214 Lb-ft (1,646 N-m)	
	Max Torque Speed Range	900-300 0-1,260 RPM 900-400 / 900-450 0-1,760 RPM	
	Max Pressure	6,000 PSI (41,369 kPa)	
Diagnostic Flow Loops	Loadable	150 GPM	0-150 GPM (0-568 L/min), 0-6,000 PSI (41,369 kPa) flow loop with manual load valve and 10,000 PSI (68,948 kPa) gauge for monitoring pressure.
		60 GPM	0-60 GPM (0-227 L/min), 0-6,000 PSI (41,369 kPa) flow loop with manual load valve and 10,000 PSI (68,948 kPa) gauge for monitoring pressure.
	Non-loadable	60 GPM	0-60 GPM (0-227 L/min), 0-6,000 PSI (41,369 kPa) flow loop and a 10,000 PSI (68,948 kPa) gauge for monitoring pressure.
Hydraulic Fluid Supply Circuits	Main	0-60 GPM (227 L/min), 0-1,000 PSI (6,895 kPa) pressurized oil supply circuit with flow control valve, panel meter and 1,000 PSI (6,895 kPa) gauge for monitoring pressure.	
	High PSI	0-22 GPM (83 L/min), 0-7,200 PSI (49,642 kPa) pressurized oil supply circuit with 10,000 PSI (68,948 kPa) gauge for monitoring pressure.	
	Lube	0-30 GPM (114 L/min), 0-65 PSI (448 kPa) circuit with 100 PSI (689 kPa) gauge for monitoring pressure.	
Misc.	Main Reservoir Capacity	300 Gallons (1,136 L)	
	Hydrostatic Reservoir Capacity	100 Gallons (379 L)	
	Pressure Monitoring Taps	15 pressure taps for monitoring unit under test	

Power Test - Your Full Service Manufacturer

AIDCO manufactures a wide range of transmission testing equipment, including electronic shift consoles, valve body test stands, and transmission test stands.

Contact your Power Test representative or visit our web site at www.pwrtst.com for more information.



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