



Shown with optional Eddy Current Load Unit



850 Hydraulic Test Center
www.pwrtst.com



Model 850 Hydraulic Test Center

A versatile test stand designed for testing heavy-duty off-highway hydraulic components, the AIDCO Model 850 Hydraulic Test Center features some of the most advanced technology on the market today. Designed for complete hydraulic pump, motor, and transmission testing, the Model 850 is much more than a standard transmission test bench.

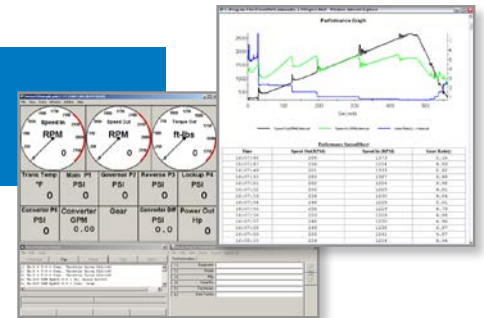
The Model 850 provides a durable and reliable platform for performance testing transmissions, torque converters, gear pumps, vane pumps, hydrostatic pumps, hydraulic motors, cylinders, and valves. Performance testing results in reduced operating costs due to rebuilding error and the possibility of critical failure in the field. Equipment dealers can realize more profitable maintenance contracts and increased customer satisfaction by utilizing performance testing. Additionally, the Model 850 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.



Ask your representative about the custom finish options available for every AIDCO product.

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 AIDCO Model 850 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 850

Every Model 850 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.

300 HP electric motor upgrade available, 200 HP comes standard

On-site Training and Commissioning

Interior Soundproofing

3-Micron Kidney Loop Filtration System:

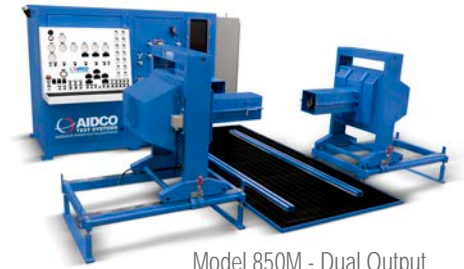
- Dedicated circulation pump and motor.
- Filtration system includes electronic indicators.

Power Lift Assembly:

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

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.
- 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.



Model 850M - Dual Output
Load Unit Configuration Shown



Gauge &
Pressure Tap
Panels



Optional Features

Adapters available for most Caterpillar off-highway equipment

PowerNet TD Data Acquisition and Control:

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

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.,
- Intermittent torque - 1,470 lb. ft.

Main Reservoir heater to warm oil to preset temperature.

Closed-Loop Cooling Kit (designed for converter flow cooling):

- Includes heat exchanger, temperature control valve, digital control and display, hoses and accessories to maintain operator set temperature range on components that function as closed loops.

High Pressure Flow Circuit with Pilot Flow Circuit:

- High PSI: 0-5.8 GPM at 5,000 psi for testing cylinders and valves. Pilot: 0-5.8 GPM at 800 psi for testing components.

Super Charge Flow Circuit:

- 0-31 GPM at 800 psi for testing components.

Low Flowmeters:

- 0.5-5.0 GPM
- 0.2-2.0 GPM

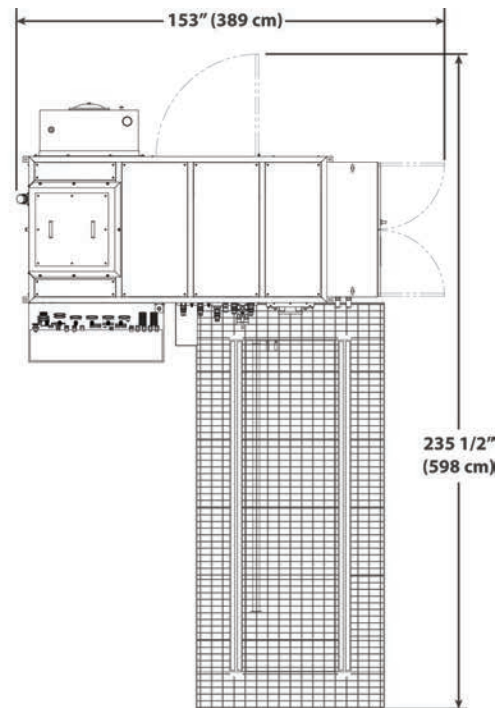
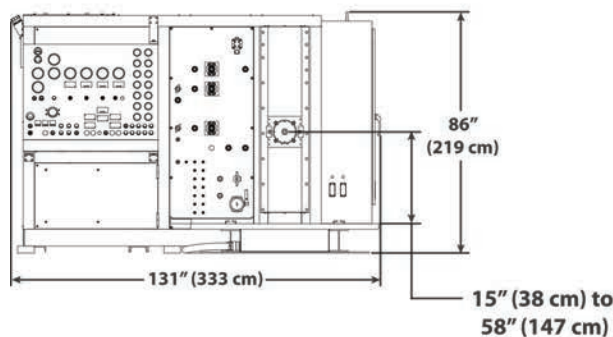
Model 850 Specifications

Electric	Test centers utilize a wye-delta starting method to reduced motor startup voltage drop.	850-200	200HP (150 kW) 460V/60 Hz - 350 Amps 165HP (125 kW) 380V/50 Hz - 350 Amps
		850-300	300HP (225 kW) 460V/60 Hz - 500 Amps 250HP (185 kW) 380V/50 Hz - 500 Amps
Hydrostatic Drive System	Direction	CCW & CW	
	Max Speed	4,000 RPM	
	Max Torque	777 Lb-ft (1053 N-m)	
	Max Torque Speed Range	850-200 0-1,422 RPM	850-300 0-1,922 RPM
	Max Pressure	6,000 PSI (41,369 kPa)	
	Pump Displacement	850-200 130cc	850-300 180cc
	Motor Displacement	160cc	
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 6,000 PSI (41,369 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 two (2) 6,000 PSI (41,369 kPa) gauges for monitoring pressure.
	Non-loadable	60 GPM	0-60 GPM (0-227 L/min), 0-2,500 PSI (17,237 kPa) flow loop and a 3,000 PSI (20,684 kPa) gauge for monitoring pressure.
Hydraulic Fluid Supply Circuits	Main	0-60 GPM (227 L/min), 0-2,500 PSI (17,237 kPa) pressurized oil supply circuit with flow control valve, panel meter and 3,000 PSI (20,684 kPa) gauge for monitoring pressure.	
	Lube	0-60 GPM (227 L/min), 0-65 PSI (448 kPa) circuit with 200 PSI (1,379 kPa) gauge for monitoring pressure.	

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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