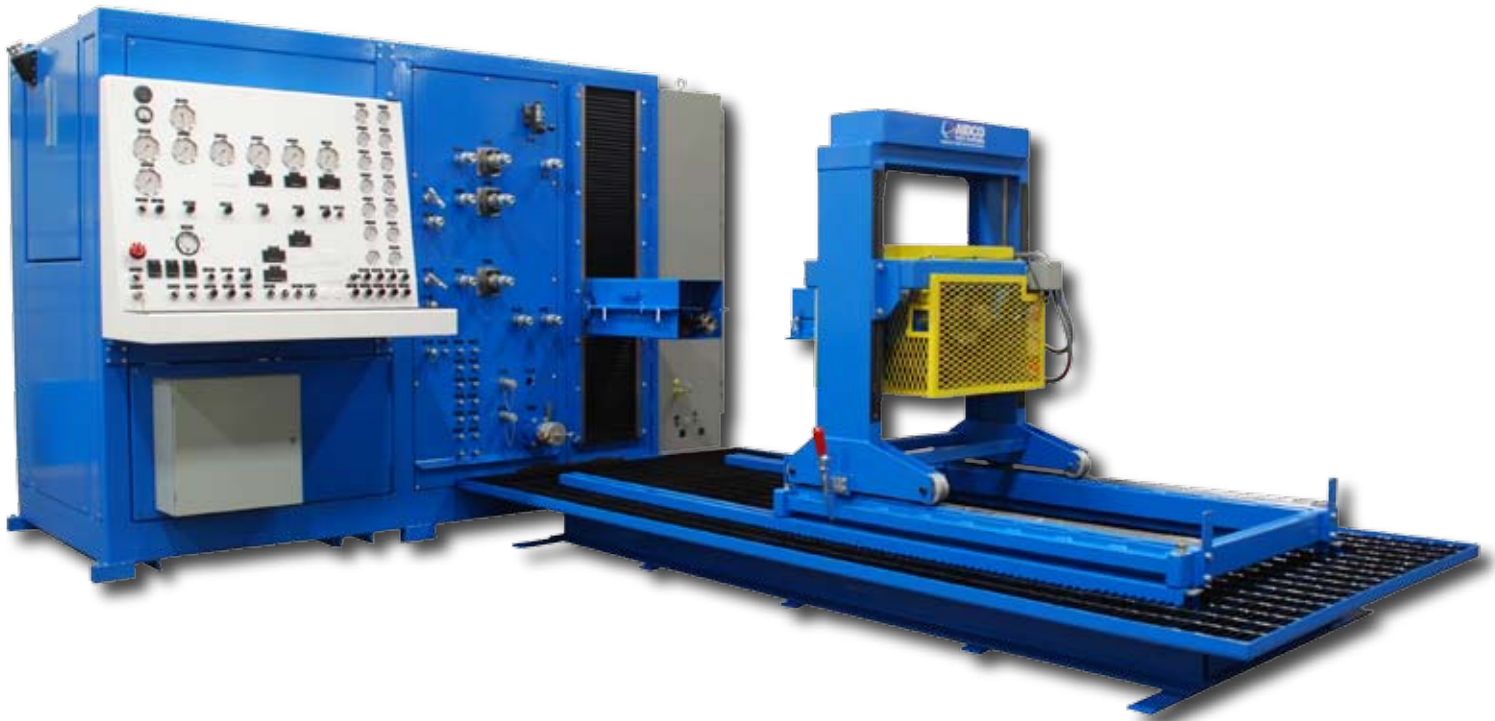


# MODEL 850 HYDRAULIC TEST CENTER



Shown with optional Eddy Current Load Unit

# 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 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 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.

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 850 Hydraulic Test Center is one of the most comprehensive hydraulic testing tools on the market.

## Specifications:

- 200 hp electric motor with a variable displacement hydrostatic drive pump and variable displacement, bidirectional hydrostatic motor capable of 777 lb/ft torque and 4,000 rpm.
- Main flow circuit: 0-60 gpm (227 L/min) up to 2,500 psi (172 bar).
- Lube flow circuit: 0-60 gpm (227 L/min) up to 65 psi (4 bar).
- Optional high pressure flow circuit: 0-5.8 gpm (22 L/min) up to 5,000 psi (345 bar) with pilot flow circuit: 0-5.8 gpm (22 L/min) up to 800 psi (55 bar).
- Optional super charge flow circuit: 0-31 gpm (117 L/min) up to 800 psi (55 bar).
- 3" pump suction port from main reservoir.
- 160 gallon (606 L), heated (optional) main reservoir with fixed tube, bundle-type heat exchanger, temperature gauge, visual sight gauge, and (2) 10 micron filters.
- 60 gallon (227 L) hydrostatic reservoir with fixed tube, bundle-type heat exchangers, temperature gauge, visual sight gauge, and 10 micron filters.
- Worktable with 100 gallon (378 L) sump capacity, automatic/manual pump, and 10 micron filter.
- 12 pressure taps and 12 liquid-filled pressure gauges to monitor components under test.
- **12 Month Warranty on Materials and Workmanship**

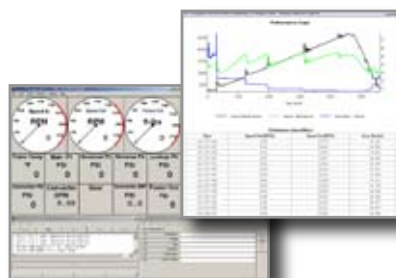
**PowerNet TD Data Acquisition and Control System is available for all AIDCO Transmission and Hydraulic Test Stands**

## 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 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. 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.

## 200 HP Electric Motor (150-300 HP 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.

## 4 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.

### Eddy Current Load Unit:

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

### 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

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

### Super Charge Flow Circuit

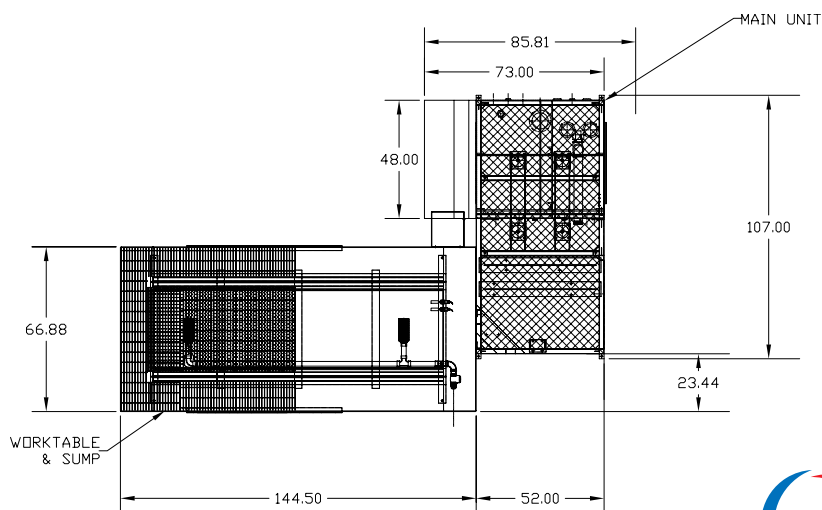
- 0-31 GPM at 800 psi for testing components

### Main Reservoir Heater to warm oil to preset temperature

### Lexan Safety Shield

### Low Flowmeters

- 0.5-5.0 GPM
- 0.2-2.0 GPM



# Model 850 Hydraulic Test Center

<b>Hydrostatic System</b>	Bidirectional hydrostatic motor Max Torque: 778 ft/lbs torque Max. Speed: 3,400 rpm
<b>Main Flow Circuit</b>	0-60 gpm (227 L/min) up to 1,000 psi (69 bar) 4 in. diameter analog pressure gauge 4 digit, constant display, digital flow indicator
<b>Lube Flow Circuit</b>	0-60 gpm (227 L/min) at up to 60 psi (4.1 bar) Flow adjust valve
<b>High Pressure Flow Circuit (optional)</b>	0-5 gpm (19 L/min) up to 5,000 psi (345 bar) 4 in. diameter analog pressure gauge 4 digit, constant display, digital flow indicator



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

In addition to the Model 850 Hydraulic Test Stand, AIDCO manufactures a wide range of transmission testing equipment, including electronic shift consoles, valve body test stands, and transmission test stands.

SPECIFICATIONS SUBJECT TO CHANGE

**AIDCO TEST SYSTEMS** - a division of Power Test Incorporated

N60 W22700 SILVER SPRING DRIVE SUSSEX, WI 53089 USA

phone: (262)252-5030 fax: (262)246-0436

[www.aidcots.com](http://www.aidcots.com)