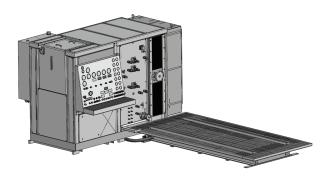
Model 850 Transmission And Hydraulic Component Test Center



850 Hydraulic Test Center shown

Overview

The AIDCO Model 850 Test Center may be used for continuous-duty transmission performance verification, quality assurance, endurance, and certification testing for heavy-duty off-highway transmissions. In addition to transmission testing, the 850 is capable of testing various hydraulic system components. Components include, but are not limited to, hydraulic cylinders, valves, torque convertors, closed or open loop pumps and motors.

Model 850 Features:

- 200 or 300 HP options available
- A closed loop Hydrostatic Drive System inputs rotary power to the test component.
- Drive speed is controlled from a single potentiometer for simplified operator control.
- Provides closed loop speed, flow and load control to the component under test.
- Hydraulic drive motor power lift facilitates vertical maneuving to align the drive shaft with the component under test.
- Integral 160 gallon (605 L) hydraulic oil reservoir with supply pump for Main and Lube pressurized oil supply circuits.
- Twelve pressure taps in conjunction with liquid-filled pressure gauges monitor pressures within the component under test.
- Equipped with three (3) diagnostic flow loops: (2) loadable, (1) non-loadable.
- Optional external Manifold Rectifier Block for testing closed loop pumps is available.
- PowerNet TD Data Acquisition and Control System is available for automated control and data reporting. The system will monitor and record the pressures, temperatures, flows, rpm, torque and has high speed shift capture capabilities.

Enhance the AIDCO Model 850 Test Center by ordering the optional Eddy Load Unit. This combination adds the capability to perform dynamic load testing of transmissions and hydraulic motors on the test center.



Model 850 Transmission And Hydraulic Component Test Center

850 Hydraulic Test Center Specifications						
Electric		Electric Motor Selections (other voltage options available on request) Test centers utilize a wye-delta starting method to reduced motor startup voltage. A soft-start option is also available. NOTE: Main Power Disconnect (provided by others) must use time-delay slow-blow fuses or a breaker with an adjustable over-current setting.	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			
	E	Direction	CCW & CW			
	yste	Max Speed	4,000 RPM			
	S S	Max Torque	777 Lb-ft (1,053 N-m)			
	c Driv	Max Torque Speed Range	850-200 0-1,422 RPM 850-300 0-1,922 RPM			
3	Hydrostatic Drive System	Max Pressure	6,000 PSI (41,369 kPa)			
		Pump Displacement	850-200 130cc 850-300 180cc			
	I	Motor Displacement	160cc			
sdoo-	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.			
Diagnostic Flow Loops	Load	60 GPM	0-60 GPM (0-227 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.			
	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.			
		Main Reservoir	160 Gal (606 L)			
		Main Reservoir Cooler	Tube style heat exchanger			
pue	מ	Hydrostatic Reservoir	100 Gal (379 L)			
ge	nin i	Hydrostatic Res. Cooler	Tube style heat exchanger			
Fluid Storage and	Conditioning	Kidney Loop Flow	60 GPM (227 L/min)			
St	ond	Kidney Loop Filter	3 Micron			
-Iui	Ö	Worktable Sump Filter	5 Micron			
ш.		Return to Tank Filters	10 Micron			
		Customer Supplied Cooling Water	60 GPM (227 L/min) @ 30 PSI (207 kPa) @ 85° F (30° C)			

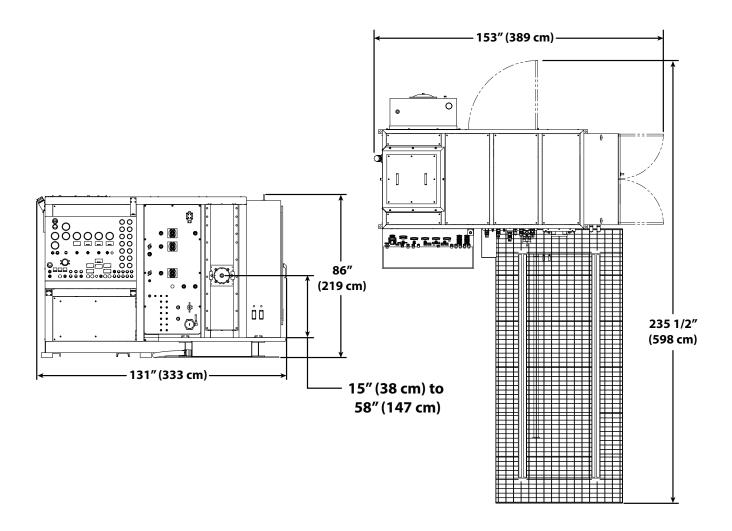




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850 Hydraulic Test Center Specifications					
	Pressure Monitoring Taps	12 Total (1 ea.) 0-100 PSI (0-690 kPa), (2 ea.) 0-200 PSI (0-1379 kPa), (8 ea.) 0-600 PSI (0-4137 kPa) & (1 ea.) 0-6,000 PSI (0-41368 kPa)			
	Power Motor Lift	Can adjust 15" (38.1 cm) to 60" (152.4 cm) from top of worktable			
Misc.	Worktable	Standard 144 1/2" (367 cm) long x 66 7/8" (170 cm) wide worktable with sump pump; 6,000 Lb. (2,722 Kg) support capacity.			
	Gravity Feed Ports	(1) 3" (7.6 cm) from 160 Gal (606 L) Main Reservoir.			
	Soundproofing	Included on enclosure panels			
	Approx. weight	Test Stand = 11,000 Lb. (4,990 Kg); Worktable = 2,000 Lb. (907 Kg)			

Available Options Listed On Next Page





Model 850 Transmission And Hydraulic Component Test Center

	850 Hydr	aulic Test Center Options	
PowerNet TD	PNET-TD is a complete automated data acquisition and control package.		
Main Reservoir Heater	Adds a thermostatically controlled 12 kW reservoir immersion heater.		
Transmission Drive Kit	Includes driveshaft guard, driveshaft, adapter. Kit can be ordered with or without a torque meter for high accuracy torque readings.		
Safety Shield	Adds a safety shield used to protect operator from fluid splash and small projectiles.		
Manifold Rectifier Block	Adds a 0-200 GPM (0-757 L/min), 0-6,500 PSI (44,816 kPa) flow loop used for testing closed loop pumps.		
Low Flow Recirculation Loops	Adds two externally mounted flow meters for flow measurement. One (1) 0.5-5 GPM (19 L/min) and one (1) 0.2-2 GPM (8 L/min).		
Optional Fluid Supply Circuits (can only select one)	High PSI w/ Pilot	Adds an integral 0-5.8 GPM (22 L/min), 0-5,000 PSI (34,474 kPa) fluid supply circuit that includes a 6,000 PSI (41,369 kPa) gauge for monitoring pressure. Kit also includes an intergral 0-5.8 GPM (22 L/min), 0-800 PSI (5,516 kPa) pilot circuit with a 1,000 PSI (6,896 kPa) gauge for monitoring pressure.	
	Super Charge	Adds an integral 0-31 GPM (117 L/min), 0-800 PSI (5,516 L/min) fluid supply circuit that includes a flow control valve, panel meter, and 1,000 PSI (6,896 kPa) gauge for monitoring pressure.	
Convertor Flow Loop Cooling Kit	Kit includes a heat exchanger, temp. control valve, digital control and display to maintain operator set temp. range on components that function as closed circuits.		
Pilot Pressure Manifold	A multi-port manifold that provides five (5) different adjustable pressure sources ranging from 50-1500 PSI (344-10,342 kPa) for testing tandem or triple pumps.		
Suction Supply Manifold	A multi-port manifold that provides four (4) different suction supply ports; two (2) 2" (5.1 cm) and two (2) 1.5" (3.8 cm) ports.		
Adapter Kit(s)	Used in conjunction with test stand to mount and drive specific transmissions. Consult with your AIDCO sales representative for more information.		
Soft Start	Provides a smooth, stepless, reduced-voltage acceleration of the main motor.		
Eddy Load Unit(s) (Air Cooled)	Connects to trans. output to apply a load simulating actual operational conditions. Includes V-Rail Extension Kit for mounting Eddy Load Unit(s). Continuous braking torque 525 Lb-ft. (712 Nm) Intermittent braking torque 1,470 Lb-ft. (1,993 Nm) Max. stall torque 2,000 Lb-ft. (2,712 Nm) Maximum RPM: 3,000 Rotation: bi-directional (standard unit specifications listed above, optional larger load unit is available)		
Stall Kit	Stall Bar	Manually inserted Eddy Load Unit stall bar. (standard)	
	Air Brake	Air actuated brake assembly installed on to Eddy Load Unit to stall transmission output. (optional)	
Vertical Eddy Movement	Manual	Manual system to adjust vertical position. (standard)	
	Motorized	Motorized system to adjust vertical position is available. (optional)	
Electronic Shift Console	tronic Shift Console Used in conjunction with test stand to control transmission. Consult with your A sales representative for more information.		



AIDCO can provide a custom designed system solution to meet your application needs. Consult with your AIDCO representative for details.

