

Malabar Hydraulic Test Stand Type HTS-3/D

Diesel Engine Driven Test Stand Design Specification

Specifications:

-General:

-System Configuration:	Triple system with open/closed loop operation
-Hydraulic Fluid:	MIL-H-5606, MIL-H-83282, MIL-H-87257
-Engine, Horsepower & Fuel:	Caterpillar; 250 HP; Diesel, Jet A or JP8; 60 US Gallon Fuel Tank
-Maximum Output Pressure:	5000 PSIG
-Maximum Flow Rate:	105 GPM at 3000 PSIG. 60 GPM @ 5000 PSIG*
-Unit Size:	72" wide, 74" high, 114" long
-Weight(dry):	approximately 6500 lbs.
-Mobility:	4 wheeled vehicle with towbar, 20 MPH towing and parking brake
-Operational Conditions:	-40°F to +130°F, to 5000 ft. altitude
-Storage Conditions:	-65°F to +160°F
-Hydraulic Reservoir:	60 US gallons capacity, stainless steel construction
-Integral Purification System:	System removes contaminants from hydraulic fluid

Benefits:

1. Rugged HDXPE foam cored enclosure for:
 - Resistance to Phosphate Esters
 - Light weight
 - Sound absorption
 - Economical as compared to stainless steel sheet metal
 - Aesthetics with molded rounded edges in lieu of sharp corners
 - Molded in colors with no painting required
2. Manifoldd control valve block for:
 - Minimum fluid leakage
 - Optimised flow passages with low pressure drops
 - Plug in valves and components for maintainability
3. Electrical valve operators (solenoid or proportional) for:
 - Remote keypad operation of controls
 - Quieter operation with noise sources remote from control panel
 - Operator convenience
4. Centrifugal Clutch for Engine Start at no load
5. 20 MPH rated chassis and running gear includes:
 - Rugged tubular steel construction
 - Leaf spring suspension
 - 4 wheel running gear
 - Towbar
 - Ackerman type steering
6. All-digital instrumentation:
 - Increased accuracy and readability
7. Purification system removes:
 - Dissolved air to less than 7%
 - Dissolved water to less than 150PPM
 - Chlorinated solvents to less than 50 PPM
 - Particulates to ISO Code 16/14/11 level.

-Additional Specifications:

- Housing: Color impregnated high density cross link polyethylene (std. color: olive drab)
- Control Panel: Real-time digital displays indicating pressure, flow and back pressure. Temperature compensated pressure transducers and turbine flow meters. Easy adjustment for pressure & flow adjustment. Vacuum fluorescent multiple line display for menu items, system status, warning light and an audible alarm. Manual or pre-programmed operation.
- Electronic Control: Microprocessor based electronic system with start-up / shut-down protocols, built in test, self-diagnostics, continuous status updates.
- Accessories: 50 ft. 3/4 inch Pressure & 50 ft. 1 inch Return Hoses. Aircraft hydraulic ground connectors and runaround fittings to customer requirements can be provided. DC-AC Inverter with 8 amp, 120VAC output with built-in battery charging.