

Malabar Hydraulic Test Stand Type HTS-2/D

Diesel Engine Driven Test Stand Design Specification

Specifications:

-General:

| | |
|--------------------------------|---|
| -System Configuration: | Dual 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.