

## Malabar Hydraulic Test Stand Type HTS-2/E

### Electric Motor 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
- Horsepower and Voltage: 200 HP, (250A) @ 460 V, 3 Ph, 60 Hz or 380 V, 3 Ph, 50 Hz
- Maximum Output Pressure: 5000 PSIG
- Maximum Flow Rate: 105 GPM at 3000 PSIG. 60 GPM @ 5000 PSIG\*  
\*Flow is reduced for 380V, 3 PH, 50 Hz power supply
- Unit Size: 72" wide, 74" high, 114" long
- Weight(dry): approximately 6200 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. Soft start solid state motor starter for:
  - Reduced starting currents •Low pressure spikes
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. Electric Cable, 50 ft. 3/4 inch Pressure & 50 ft. 1 inch Return Hoses. Electrical connector, aircraft hydraulic ground connectors and runaround fittings to customer requirements can be provided.