



# HOSE TEST RIG

## MODEL : ACE - 1000



NON DESTRUCTIVE HYDRO-STATIC TESTING (NDT): 0 - 1000 bar  
 DESTRUCTIVE BURST TESTING (DT): 0 –1000 bar

Compliant to specifications for NDT & DT in Mining, Automotive, Aerospace, Oil & Gas and Defence industries (except Impulse Testing). MDG-41 & 1010, OHS-2000, SAE J1273 & 1339-2000, AS 2671, 2788, 4801, 4360 & 4024.

**ACE - 1000** is a Semi-Automatic Test Rig where the operator needs to switch off the pump manually (back lit press button), at the desired test pressure (NDT), or when a burst /pull-out takes place (DT). The process and the test well can be viewed safely through the shatter proof back lit viewing windows. The access door is locked when the pumps are switched on to prevent accidents.

### System capability (test 5 hoses at a time)

Flush and Hydro -Static 'Proof' Pressure Test any combination of 1 to 5 hoses, 1/4" to 1.5", max 2 mtr long, between 100- 1000 b using DM or Alkaline Water, or Water + 5% cu ng oil, or any petroleum or mineral type hydraulic oils, at any elevated temp of up to 60<sup>0</sup>C.

Burst test any hose as above, up to max 1000 bar.

### Utilities Required:

Dry compressed Air > 8 < 10 bg / approx. 50 scfm.

Electric Power: 215 VAC/1 ph/50 htz / approx. 250 W

### Description (Basic System ACE - 1000)

The system has a compressed air driven Haskel USA make high pressure pump, electric driven flushing / prefill / recirculation pump, 100 ltr fluid tank with recirculation circuit to prevent wastage of fluid, filler neck with vent, level viewing window, electric heater with thermostat control, filter, adjustable relief valves to prevent over pressure, individual back lit On/Off switches for pumps and heater, fluid inlet/outlet control valves, 2 x 5 hose manifolds with suitable adapters (1/2", 3/4", & 1"), 4" dia analogue pressure gauge (or digital LED indicator), junction box with appropriate electrical controls, all the above mounted ergonomically in a box with control panel. The test well has a spring loaded hood with shatter proof viewing windows, internal lighting, drain pan, and interlocking arrangement to lock the hood when the pumps are switched on.

### Optional Features

Any or all Optional Features indicated below can be provided at additional price

- PLC with digital control and pressure transducer (instead of analogue gauge) to automatically stop the system at any 'Set Pressure' between 100—1000 bar.
- Pressure holding as desired and automatic release of pressure at 'Set Pressure' with alarm to indicate completion of test or burst.
- Automatic release of pressure if the test well is opened inadvertently during pressure cycle.
- Deeper test well to accommodate long length of the hose, If long hoses needs to be 'Proof Tested' or burst, one at a time.
- Data logging of Pr and Temp during test cycle, with customized SCADA software and display, using a laptop and printer to print batch test reports.
- Bar code tagging of hoses, bar code reading and corroboration of bar code in test reports to create 'Traceability Documents'.



Fix, Prefill, Recirculate, remove leak	Hydrostatic Pressurisation Proof / Burst Test	Un Fix Hoses
7'	3'	4'
Test Cycle 14 mts		
500 hoses in a day		