HYDRAULIC TEST RIG FOR AIRCRAFT
The universal hydraulic test rig consists of a structure of fabricated frame of steel section members mounted on a steel base.

There are mainly 4 parts in the test rig:-

1. Hydraulic power pack system
   a) Tank
   b) Pump and motor
   c) Bladder and accumulator
   d) Fuel level indicator
   e) Heat exchanger
2. Filtration system
   a) Pressure indicator
   b) Temperature indicator
   c) DC valve
   d) Needle valve
3. Measurement and control system
4. Interlocking & safety Devices
Salient features of the Test Rig:

- **Both Static and Dynamic System**
- **Two independent Systems, but can be combined as well**
- **Static Pressure Intensifier for ease of operation and high-pressure generation**
- **Pressure Measurement ports have been provided for along with Minimess hoses for connections**
- **For Pneumatic filtration, the Regulator itself has filter element**
- **One transmitter on each of pressure line of the dynamic systems (One for system-1, system-2 and return line)**

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**Features**

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DESCRIPTION OF TEST RIG:
The Test Rig is self-contained, General-Purpose Electro Hydraulic Test Rig. Safety & user Friendliness are the key features of the provided Test Rig. The Test Rig provided has been designed to address all the requirements of the Tender Document.

- With this Test rig, Two Operators can work independently.
- All the components as specified can be tested on this Test Rig.

The List of the Components to be tested on the Rig is as follows:

**HS -748 A/C**

i) Cut out Valve.
ii) Pressure Relay (Req. static pressure of 5000 PSI)
iii) Down Lock. & Unlock Assembly & Jack.
iv) Main &Nose Jack.
v) Accumulators.
vi) Relief valve
vii) N.R.V. (Non Return valve
viii) Modulator
ix) Flow indicator valve
x) Brake Assembly
xi) Steering selector valve

**DO-228 A/C**

i) Power Pack
ii) Landing Gear Actuators
iii) Accumulators
iv) Brake control valve.
v) Brake Master cylinder.
PANNEL DRAWING OF TEST RIG
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