



## **Dynamic Shear and Pressure Impulse Test Equipment**

### **About-**

Dynamic Shear and Pressure Impulse Test Equipment (DSPITE) is a rig developed by Neometrix to test units with special modular joints made by Eaton. These units are hand-assembled and have multiple joints in each unit. DSPITE is a Hydraulic System based Servo controlled Actuator system to build required Pressure Impulse (Pressure) and Dynamic Shear (Pressure and Load) test profiles. Test Units are filled with Water-Glycol solution and are connected to Servo-actuators. These actuators take controlled precise strokes to create required Pressure Impulse graphs. The rig is capable to generate continuous Pressure and load graphs for upto 300,000 cycles. It is an Endurance Testing Machine.

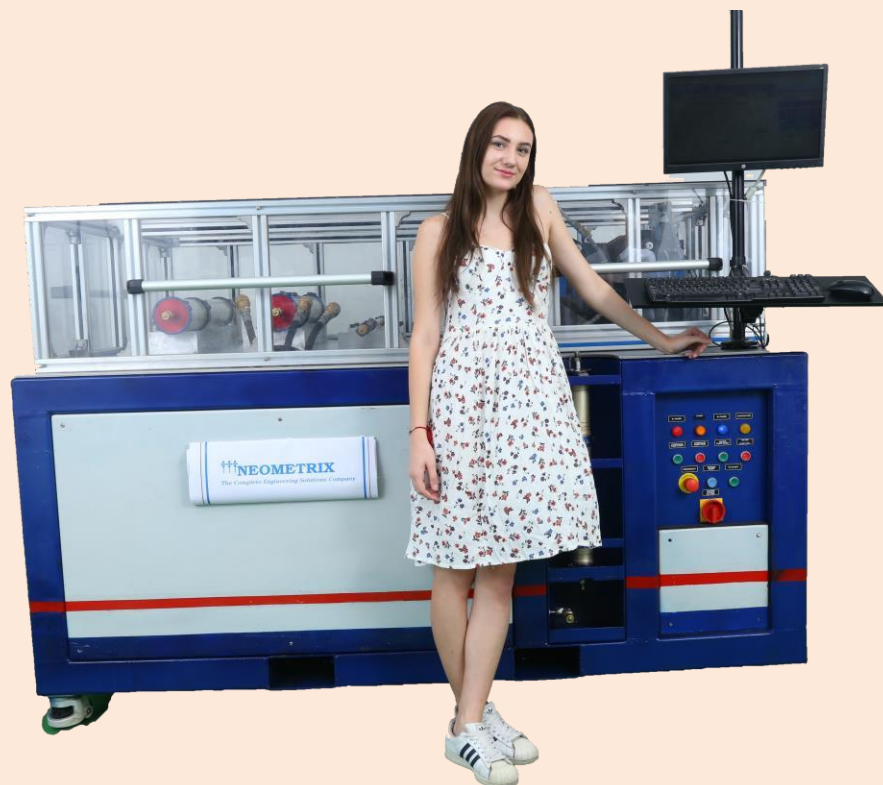
**Neometrix Defence Limited**

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## Technical Specification-

- Overall Dimensions : 2200x1500x1530mm
- Unit Weight : 1500 Kg (Dry Weight) , 1700 Kg (With Oil and Water-Glycol filled)
- Max Power Consumption : 5 kW
- Main Power Supply : 3 Phase, 440 VAC
- DAQ Power Supply : Single Phase, 220 VAC
- Operating Fluid : Hydraulic Mineral Oil VG-32
- Operating Temperature : 20 C to 50 C
- Reservoir Capacity : 100 Liters
- Operating Fluid : Water-Glycol (Propylene Glycol 65% and Deionized Water 35%)
- Operating Temperature : 20 C to 30 C



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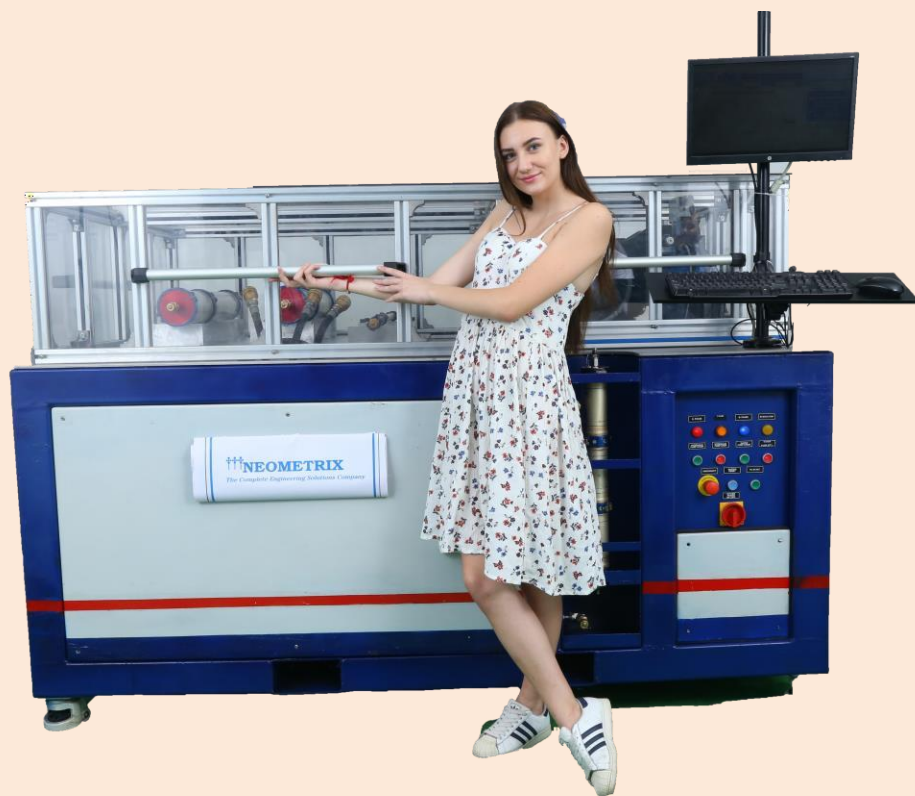
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# NEOMETRIX

## Application-

Neometrix is very much focused on Aviation, Research Labs, Defense and Railway industries and offers complete range of systems & services which can be of immense use to you. We specialize in Hydraulic/ Servo Hydraulic Test Rigs, Fuel System Test Rigs, Pneumatic System Test Rigs, Oxygen/ Special Gases system Test Rigs, Very High Pressure Systems, Electronic & Electrical Test Rigs.



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## Key Features-

- Continuous Pressure and Load graphs generation for Lakhs of cycles.
- Pressure Rise rate upto 100 bar/sec.
- Load Rise rate upto 2300 lb/sec.
- Automatic Control to correct generated graphs.
- Peak Pressure control under 8 psi band for continuous cycles.
- Peak Load Control under 5 lbs. band for continuous cycles.
- Multiple Unit Testing at same time.
- Simultaneous Pressure Impulse and Dynamic Shear Testing.
- Hydraulic Oil temperature control with minimum water consumption.



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