NEOMETRIX

TEST BENCHES FOR TRACTORS

REAR COVER ASSEMBLY / CONTROL VALVE
TEST RIGS

PRODUCT CODE – (NXA1329)
## Test Parameters

<table>
<thead>
<tr>
<th>Test Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load</td>
<td>800kg, 1200kg, 1500kg</td>
</tr>
<tr>
<td>Pressure setting</td>
<td>Three Settings</td>
</tr>
</tbody>
</table>
| Test unit parameters | Flow: 5 – 46lpm  
Pressure: 0 - 250bar |
| Test duration   | 3 min. per unit. |

## Control Parameters

<table>
<thead>
<tr>
<th>Control parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load</td>
<td>By controlling pressure in loading actuator.</td>
</tr>
<tr>
<td>Flow for test unit</td>
<td>Using AC drive to control pump RPM hence control flow</td>
</tr>
<tr>
<td>Temperature of hydraulic oil</td>
<td>By using heater &amp; air control with independent close loop cooling circuit.</td>
</tr>
</tbody>
</table>

*Parameters can be customized as per requirement.

**Various control valves on lift housing (Rear Cover) are checked.**

And the following parameters have been checked on these control valves:

- **Dead Band** – 0.3 to 0.5mm
- **Lift – drifting check by LVDT** - 0.01 mm
- **Leakage**
- **Lift Time**
- **Proportionality in flow**
- **Neutral position check**
### Major Sub-Systems

- **Profile of SS matching the rear cover rests.**
- **Tank of SS below the profile which acts as drain.**
- **Hydraulic clamps to automatically tighten the assembly while testing.**
- **Variable Flow**: 0-46 lpm
- **Flow Measurement**: 50 lpm
- **Internal Gear Pump**: 50 bar, 46 bar
- **DC Valves for switching of loading/unloading/different load setting.**
- **Pressure control with unloading facility.**
- **Air cooling is provided in the tank.**
- **Two different systems provided, one for gripping the rear cover and other for loading.**
- **Pressure control with unloading facility is provided.**
- **Flow division is used to feed actuators.**
- **NI Lab View is used.**
- **NI DAQ MAX is used.**
- **User friendly interface is provided.**

### Monitoring & Recording

- **Data recording in computer.**
- **Data storage & display.**
- **Data analysis, report generation.**
KEY FEATURES

**Hydraulic clamp tighten the rear cover automatically.**

**Touch panel screen for ease of indication & controlling.**

**Air cooling and oil heating is used for temperature control.**

**Duplex filtration is used for better oil filtration and ease of operation.**

**Close loop cooling & filtration provided.**

Ph. No. +91-120-4500800  
www.neometrix.in  
sales@neometrix.in
MAIN HYDRAULIC SYSTEM FOR TEST RIG

* With Base Frame

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Ph. No. +91-120-4500800  www.neometrix.in  sales@neometrix.in
TOP VIEW OF TEST RIG

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OTHER PRODUCTS FROM NEOMETRIX

Hydraulic Component Test Systems
Fuel Component Test Systems
Electrical Component Test Systems
Oxygen Component Test System
Pneumatic Component Test Systems

AVIATION: GROUND SUPPORT EQUIPMENT (GSE)

Universal Gas Booster Station: UGSS-O₂
Hydraulic Servicing Trolley: HST