The Flexstation™ is a production class automated helium leak test system ready to interface with production test tooling. The standard platform provides a robust, high-value solution through configurable software and hardware, enabling the Flexstation™ to perform in many variations of helium hard vacuum or HATS™ leak testing methods. In addition, its modular design can adapt to new test tooling as your production requirements change.

**Features**
- High performance in a compact footprint
- Standard hardware and software
- Flexible software configurations for many test fixture and sequence options
- Industrial PLC with 10" color touch screen
- Inficon LDS3000 helium leak detector with 3 year ion source warranty
- Field upgradable from single to dual station

**Configuration Options**
- Interface with automated or manually actuated test fixtures
- Configurable for manual button, automatic, or remote cycle initiation
- Multiple part clamp options
- Integrate with part marking systems
- Integrated full-featured part charging

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>10⁻⁹ atmcc/sec range (depending on part size, configuration, and cycle time)</td>
</tr>
<tr>
<td>Cycle Time</td>
<td>Capable of high speed testing to less than 10 seconds/cycle (part and reject limit dependent)</td>
</tr>
<tr>
<td>Control System</td>
<td>Industrial PLC with 10&quot; color touch screen, 64 digital inputs, 80 digital outputs, and 20 analog inputs</td>
</tr>
<tr>
<td>Communication</td>
<td>Ethernet and USB</td>
</tr>
<tr>
<td>Leak Detector</td>
<td>Inficon LDS3000 helium leak detector with a 3 year ion source warranty</td>
</tr>
<tr>
<td>Power</td>
<td>Depends on roughing pump size. See part number matrix on page 2</td>
</tr>
<tr>
<td>Gas Connection</td>
<td>Air: 80 psig minimum, clean dry air</td>
</tr>
<tr>
<td></td>
<td>Vent: Exhaust vent for helium</td>
</tr>
<tr>
<td></td>
<td>Helium: As required</td>
</tr>
<tr>
<td>Dimensions</td>
<td>65&quot; H x 38&quot; W x 23&quot; D</td>
</tr>
</tbody>
</table>

**Software Features**
- Automated test sequencing with test fixture control
- Full control over test recipe parameters, with up to 100 stored recipes
- System calibration function with user-configurable calibration expiration
- Diagnostics screens to assist in troubleshooting the system
- Manual mode operation with graphical screens and safety interlocks
- Password protection to restrict access to manual modes and editing test recipes
- Maintenance tracking feature
- Fault tracking history
- 16 GB of test or other data storage
### PART NUMBER MATRIX

**Prefix**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-VGS11000-1AXNRF-1E</td>
<td>Flexible Part Number Matrix for Helium Leak Test System</td>
</tr>
</tbody>
</table>

**Test Method**

- **V** = Hard Vacuum
- **H** = HATS™

**Leak Test Mode**

- **G** = Gross
- **F** = Fine
- **U** = Ultra (Std)

**Manifold/Chamber**

- **S** = Single
- **D** = Dual

**Valve Size**

- **1** = KF16
- **2** = KF25
- **3** = KF40
- **4** = ISO63
- **5** = HATS™ KF16
- **6** = HATS™ KF25
- **7** = HATS™ KF40

**Roughing Pump**

- **1** = 14 cfm
- **2** = 28 cfm
- **3** = 53 cfm
- **4** = 100 cfm, Blower
- **5** = 15 cfm, (1 stage, HATS™)

**Vent Configuration**

- **0** = No Air/N2
- **1** = With Air/N2

**Dump Test**

- **0** = No
- **1** = Yes

**Sniff**

- **0** = No
- **1** = Yes

**Helium Charge**

- **0** = No
- **1** = Yes

**Helium Fill**

- **A** = 15 psia Med Flow
- **B** = 1 - 25 psig Med Flow
- **C** = 2 - 125 psig Med Flow
- **D** = 5 - 450 psig Med Flow
- **E** = 5 - 1000 psig Med Flow
- **F** = 5 - 3000 psig Med Flow
- **G** = 100-6000 Psig Med Flow
- **H** = 0 - 15 psia High Flow
- **J** = 1 - 25 psig High Flow
- **K** = 2 - 125 psig High Flow
- **L** = 5 - 500 psig High Flow

**Air Fill**

- **X** = None
- **F** = 25 - 3000 psig Med Flow

**Charge Options**

- **R** = Helium Recovery

**Charge Options**

- **M** = None
- **P** = RV Pump

**Part Evac**

- **E** = E-STOP ONLY
- **L** = LIGHT CURTAIN
- **T** = TWO HAND
- **G** = SAFETY GATE

**Safety Configuration**

- **F** = Flow Test

**Electric Power**

- **1** = 120 VAC, Single Phase
- **2** = 240 VAC, Single Phase
- **3** = 240 VAC, Three Phase
- **4** = 480 VAC, Three Phase

**Industrial PLC with 10” color touch screen**

- **Flexstation™ with 53 CFM roughing pump package**