Fuel Injector Service & Diagnostic Equipment

Gasoline Mulit-Port (MPFI) & Throttle Body (TBI) Injection

**Functional Tests**
- Dynamic & Static Volumetric Flow Tests
- Electrical Coil & Resistance Test
- Spray Pattern Analysis
- Injector Leak Test

**Injector Service**
- Injector Ultrasonic Pulsed Cleaning
- Injector Back-Flush

**Exclusive Features**
- Heated Ultrasonic Bath
- Automatic Volumetric Cylinder Draining
- Illuminated Spray Chambers
- Built-In Injector Back Flushing
- Electronically Controlled Pressure
- Automatic & Manual Functional Testing
- User Programmable Test Plans
- Dual Scale Pressure Gauge (bar/psi)
- Complete Injector Adapter Kit

**Specifications**
- Test Pressure: 0-7.5 bar / 0-110 psi
- Testing rpm: 500-16,000 rpm
- Injector Pulse Width: .9mS-100mS
- Adj. Test Time: 1 sec - 20 min (1 sec. inc.)
- Volumetric Cylinder Capacity: 1-130 ml/cc

Gasoline Direct Injection (GDI)

**Functional Tests**
- Electronic Injector Volume Measurement
- Injector Coil Inductance & Resistance
- Injector Response Time
- High Pressure Injector Nozzle Leak Test
- Injector Leak Test
- Spray Pattern Analysis

**Exclusive Features**
- Intuitive 10" Touchscreen
- Full-Color Multi-Report Capability
- Wi-Fi Report Printing & Sharing
- Wi-Fi Database & Software Updates
- Illuminated Pressurized Spray Chamber
- Fully Automatic Operation
- Custom Test Plan Authoring
- Real-Time Oscilloscope
- TeamViewer Support

**Specifications**
- Test Pressure: Up to 550 Bar / 8,000 psi
- Mass Measurement Accuracy: .2% FS
- Repeatability: .05%
- Test Time GB620R: Less than 5 min.
- Test Time GB640R: Less than 15 min.
Fuel Injector Service & Diagnostic Equipment

**Diesel Common Rail Test Systems**

**Functional Tests**
- Electronic Delivery Volume Measurement
- Electronic Static Back Leak Measurement
- Injector Coil Inductance & Resistance
- High Pressure Injector Nozzle Leak Test
- Injector Leak Test
- Spray Pattern Analysis

**Exclusive Features**
- Database of Injector Test Plans [5]
- Full-Color Multi-Report Capability
- Wi-Fi Report Printing & Sharing
- Wi-Fi Database & Software Updates
- Illuminated Pressurized Spray Chamber [6]
- Fully Automatic Operation
- Custom Test Plan Authoring
- Real-Time Oscilloscope
- TeamViewer Support

<table>
<thead>
<tr>
<th>Feature Matrix</th>
<th>GB310R</th>
<th>GB320R</th>
<th>GB340R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simultaneous Injector Testing</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Maximum Test Pressure (Bar/Req. Air Sup.)</td>
<td>2000 @ 6 bar</td>
<td>2500 @ 6.5 bar</td>
<td></td>
</tr>
<tr>
<td>Electronic Mass Measurement Method</td>
<td>Static</td>
<td>Dynamic</td>
<td></td>
</tr>
<tr>
<td>Measurement Accuracy</td>
<td>.6% FS</td>
<td>.2% FS</td>
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</tr>
<tr>
<td>Intuitive Touch Screen</td>
<td>8”</td>
<td>10”</td>
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<tr>
<td>Injector Encoding</td>
<td>n/a</td>
<td>C2i/C3i, IMA/ISA</td>
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<tr>
<td>Test Phase Time</td>
<td>10-15 min</td>
<td>8 min</td>
<td>25 min</td>
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</table>

**Accessories & Components**

- GB’s USB100 Ultrasonic Bath features a user-adjustable thermostatic heater and automatic frequency sweep technology (31-42kHz).
- GB offers the industry’s most comprehensive set of adapters for both gasoline and diesel injectors. Our adapter program is always evolving to accommodate new injector styles.
- GB offers an entire catalog of gasoline injector service components including o-rings, seals, pintle caps and filters.