

Electronic Unit Injectors

The Electronic Unit Injector was designed to meet the need for higher injection pressures from that of the conventional injection system due to government legislation decreasing the amount of diesel particulates being pumped into the atmosphere. The Electronic Unit Injector (EUI) comes into direct contact with the cylinder head, where fuel is supplied from internal ducts in the head itself. Each injector has its own pumping element and fuel solenoid valve. Low pressure fuel is fed to the cylinder head and into each injector fuel port. The pumping action of the EUI is controlled directly by the engines camshaft. The electronic control unit (ECU) allows for temperature compensated injection timing and even cylinder balancing.

Electronic Unit injector fuel systems include; Caterpillar 3406E, Cummins N14, Detroit Series 60, Volkswagen, and Volvo.

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Hydraulically Actuated Electronic Unit Injection (HEUI®) takes place where the injectors are no longer camshaft operated. An example of this would be the International 7.3L PowerStroke engine. HEUI® uses engine oil pressure to power high pressure fuel injection, whereas the usual method of EUI operation is in conjunction with the camshaft. Hydraulically Actuated Electronic Unit Injector fuel systems include: Navistar 7.3L PowerStroke, and Caterpillar 3126E.

GCL offers a means to carry out functionality testing of new, repaired and remanufactured EUI's using the Hartridge HH705 EUI Poptest. This machine can check injectors for; leaks spray pattern, spring rate, solenoid operation and nozzle opening pressure. When injectors fail we have a full line of ProDiesel rebuilt electronic injectors at amazing prices. ProDiesel offers an industry leading 18 month warranty after initial date of installation. For more information on ProDiesel please check the suppliers section of our website or visit www.dssprodiesel.com .

Our HI2000 will flush and test 1 to 4 HEUI® injectors at a time, and is used primarily for 7.3L PowerStroke, Navistar DT466E, 444E, and DT530E injectors. It simulates on engine running conditions ensuring that your injectors receive a complete and thorough test.

HEUI® is a registered trademark of Caterpillar, Inc.