

HIIAS

testing to perfection

Solutions@Mecmesin

Connector Test on Fuel-injection Components

System

- PCM VersaTest
- 1000N PCM loadcell

software commands.

Specification

Solution

A number of destructive and non-destructive tests were required on a plastic assembly used in a fuel injection assembly. The tests included:

· insertion and withdrawal test on a bronze bush within the assembly

The white plastic body of the assembly was clamped in a retaining fixture mounted on a heavy-duty XY table on the base of the PCM VersaTest computer-controlled system. This allowed for quick and easy

positioning below the loadcell of the various components of the assembly. An offset peg-hook fixture was mounted on a swivel and connected to the PCM loadcell. The peg hook was placed in the hole of the flat connector and a load of 250N applied. If the connector resisted

this force without breaking out of the assembly, it fulfilled the

requirements of the specification. The versatility of the PCM software

non-destructive tension test on a flat connector (as shown)

· insertion and withdrawal test on a spade terminal connector

- · 250N PCM loadcell
- · Retaining fixture on XY table
- · Swivel peg hook fixture
- · Bronze bush fixture
- · Spade terminal fixture

Supplied to

Robert Bosch, Czech Republic

Mecmesin Limited Newton House, Spring Copse Business Park, Slinfold, West Sussex, United Kingdom, RH13 0SZ t: +44 (0) 1403 799979 f: +44 (0) 1403 799975

e: sales@mecmesin.com

Flat connector

Offset peg-hook

automotive industry



www.mecmesin.com