



Fuel Nozzle Test Stand

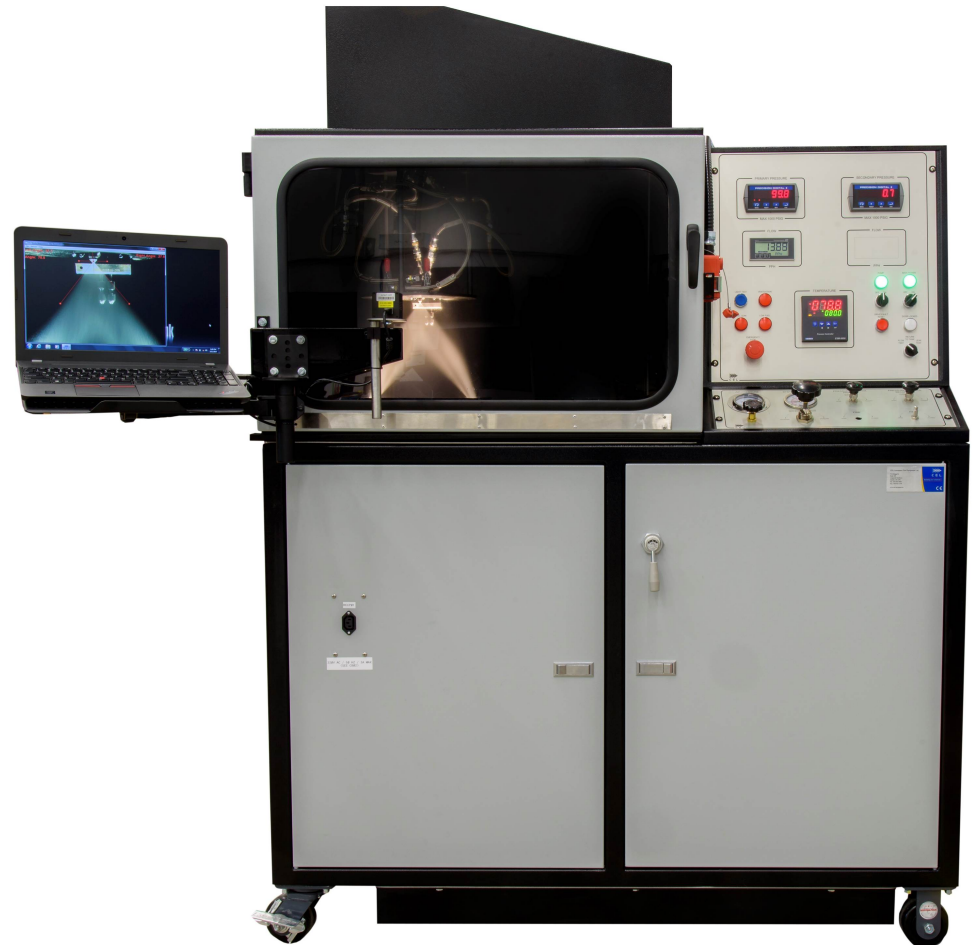
DESCRIPTION

The **CEL Model 50200** Fuel Nozzle Test Stand is designed to accurately perform acceptance tests on new or overhauled Engine Fuel Nozzles.

Due to its universality, the **CEL Model 50200** Fuel Nozzle Test Stand has the capability of testing a wide variety of Fuel Nozzles, manufactured by different OEMs by using the appropriate **Special Test Tooling**, as defined in the applicable Component Maintenance Manuals (CMM).

The **CEL Master Orifices** are used to validate the Test Stand flow accuracy before each test. **CEL Master Orifices** are offered for each family of engine Fuel Nozzles to be tested and they are specifically designed for the **CEL Model 50200** Fuel Nozzle Test Stand. The **Master Orifices** will be accompanied with Calibration Certificates.

CEL offers the recalibration service of the **Master Orifices**.

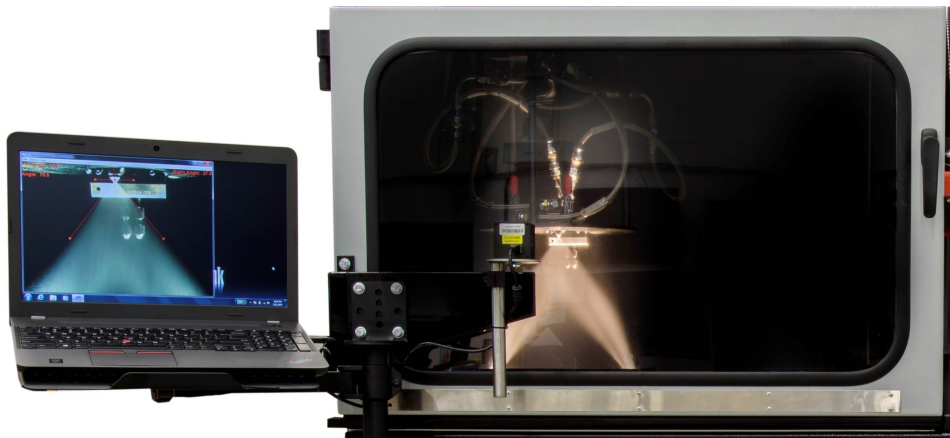




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SECURITY DEVICES

- ✓ Safety shutdown control in case of emergency
- ✓ Safety interlock switch: prevents the opening of the test chamber door while testing
- ✓ Temperature switches: avoids reaching the flash point temperature of the calibration fluid, the test stand will automatically shut down
- ✓ Low fuel level: warning when the tank's fuel level is below the minimum limit
- ✓ Leak switch: located over the leak recovery pan, below the fluid reservoir, this switch will warn if a leak from inside the cabinet occurs
- ✓ Ventilation Air Flow switch: it will stop the test if there is not enough ventilation



Typical Fuel Nozzle under test

MAIN FEATURES

- ✓ The **CEL Model 50200** Fuel Nozzle Test Stand working section has been designed to minimise the generation of Calibration Fluid fumes
- ✓ Extremely precise pressure control and Coriolis mass flowmeter for accurate fuel nozzle flow measurement
- ✓ Cooler and heater for precise fuel temperature control
- ✓ Pressure pump for flow test and pressure test
- ✓ Digital camera for accurate flow visualisation, angle measurement and recording computer assisted
- ✓ Effective optical fiber lighting system enabling to verify the spray angle with high precision
- ✓ Stainless steel tubing, tank and drip tray
- ✓ Heavy-duty wheels with braking system
- ✓ Easily removable doors all around the stand for easy access to components
- ✓ Digital displays provide monitoring of flow, pressure and temperature during tests of the Fuel Nozzle
- ✓ **CE** (European Conformity) compliant
- ✓ **ATEX** Certified (on demand)