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# GDI INJECTORS TEST LINE



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## INJECTORS

In a quality-oriented production with high production volumes there is the need to rapidly and reliably determine the characterization of 100% of manufactured parts: to cope with this necessity, Loccioni Mobility has designed and developed automatic and semi-automatic test lines for the calibration and the final test of high pressure gasoline injectors.

The system is composed of several test stations (according to the required production rate and to the tests duration) able to carry out all the warm-up, calibration, flow measurement, leak test and spray analysis operations.

The test stations composing the line are managed by a server, also used for results storage, according to the customer's required procedures and for the management of the injectors traceability inside the line. In order to face a possible productive variety, test stations are designed to be able to test different kinds of high pressure gasoline injectors (both for shape and for performances) through the very fast and simple mechanical settings and the easy setting of the test plans on the server.

Loccioni Mobility has developed semi-automated and fully-automated test line for the calibration and the final test of GDI high pressure gasoline injectors. The test lines are composed of calibration modules (performing the warm-up and the calibration of the injectors), test modules (performing flow measurement, leak test and spray analysis of the injectors), and audit systems (performing further flow measurement on a part of the total production). The lines may be completed with assembling systems for additional components (filters, o-rings, clips, seals).

### OPERATIONS

- > Automatic or manual load and unload
- > DM reading
- > Run-in up to 100 bar at 200 Hz
- > Calibration
- > Static and dynamic flow check
- > Tip liquid leak test
- > Spray check
- > Laser marking

