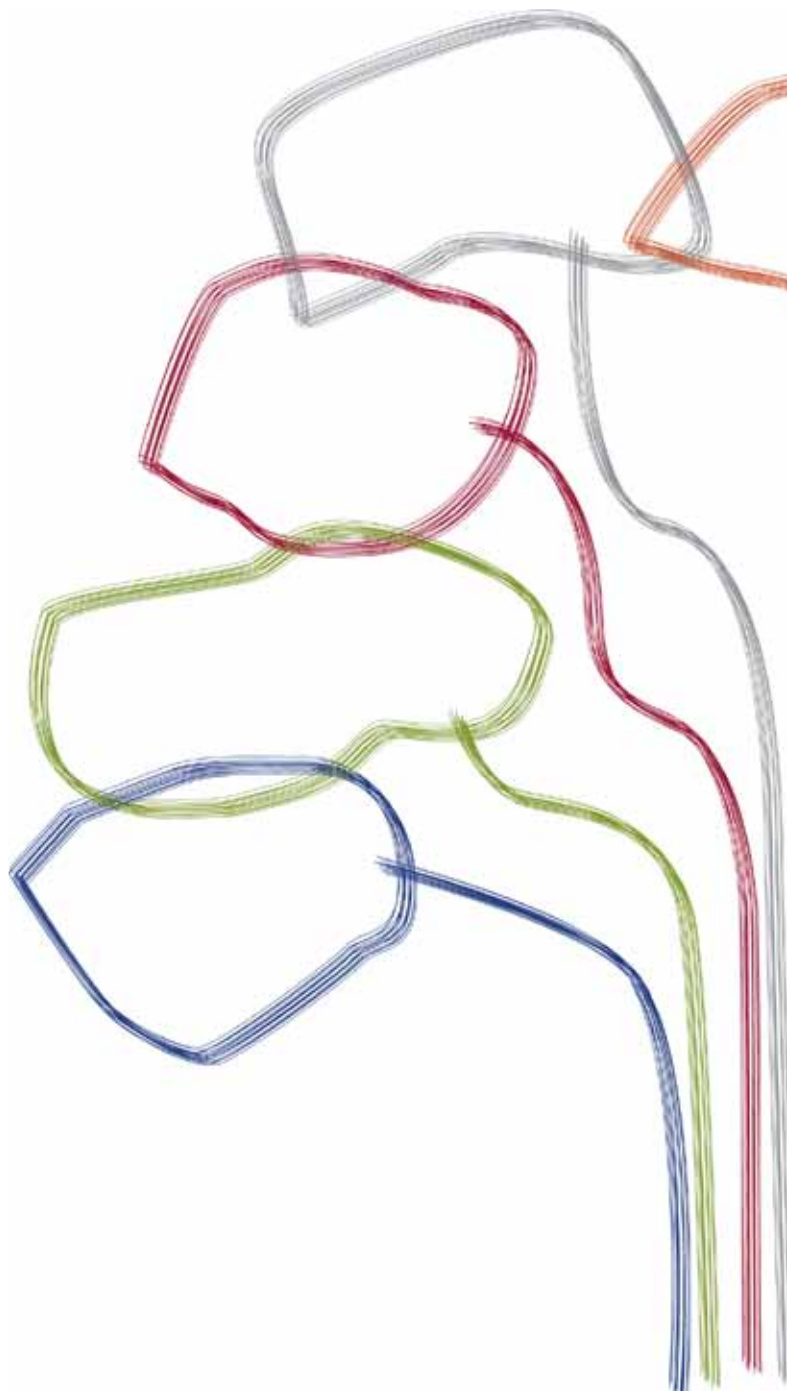




ADVANCED TESTING CENTER



RESEARCH@MOBILITY



Research@mobility offers a **fully equipped testing laboratory** and its research team to support the customer in designing **sustainable products** and more efficient **production processes**.

Networking, flexibility, competence and imagination drive the research@mobility team approach to:

- > Develop innovative instrumentation and testing systems to be directly delivered or integrated in wider systems and solutions
- > Support the customer in facing and solving complex problems, undertaking even the most challenging and innovative projects
- > Engage in our R&D projects the international network of Universities and Research Centers
- > Offer labs, equipments and competences to deliver customized test and measurement campaigns

From these premises we have created ATC- **Advanced Testing Center**, as a part of the research@mobility Lab **completely dedicated to our customers**.

ATC - ADVANCED TESTING CENTER

ATC – Advanced Testing Center is the place where **we transform data into values**. Fully equipped with the most advanced testing instruments, ATC allows us to carry on accurate test campaigns, including **components characterization**, advanced **benchmark of products** and **challenging measurements** for product development.

In our ATC we develop the most innovative, highly specialized measurement solutions and patents. Thanks to our experience in production environment we can immediately transfer such innovative measurements from laboratory to production lines, making reproducible even the most complex measurement.

The added value given from ATC to the customer is the **competence and professionalism of its team**, in the **technological reliability of its testing rigs**, in the **scientific network we nourish and grow** and above all in the passion driving us to accept even the hardest challenges.

We transform data into values



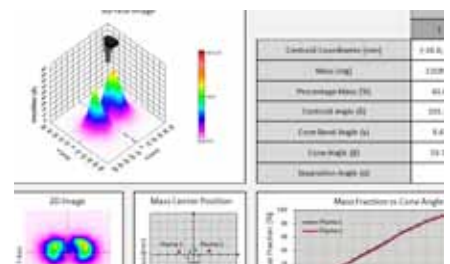
components characterization
benchmarks of products
challenging measurements

A TOUR INSIDE ATC

Thanks to our expertise, to our laboratories equipped with over 10 measurement benches, to advanced measuring instruments and above all thanks to the fact of being part of a company specialized in the development of test machines, the “ATC” has the ability to set up in short term many types of tests on most of the components of power train.

Among our competences:

- > Complete characterization of GDI injectors flow rate through scales, flow-meters, Shot-to-Shot flow-meters at pressures up to 600 bar
- > Complete characterization of Diesel CR injectors flow rate through Shot-to-Shot flow-meters at pressures up to 3000 bar
- > Test of the tip leakage for injectors with resolutions lower than 0.02 $\mu\text{l}/\text{min}$
- > Injectors spray analysis through imaging, PIV, PDA up to 80 bar of back pressure
- > Characterization of spray of gasoline injectors and SCR dosers through the Mechanical Patternator with the highest spatial resolution available on the market
- > Characterization of complete injection system (pump, injectors, rail, valve, ECU) in controlled environment with a temperature range from $-40\text{ }^{\circ}\text{C}$ to $130\text{ }^{\circ}\text{C}$
- > Characterization of GDI and DCR pumps with analysis of dynamic torque absorbed in a controlled environment with a temperature range from $-40\text{ }^{\circ}\text{C}$ to $130\text{ }^{\circ}\text{C}$
- > Analysis of spray momentum for GDI and Diesel injectors
- > Air flowrate characterization of automotive components
- > Characterization of the complete SCR exhaust aftertreatment system
- > Various set-up for testing hydraulic valves and pressure regulators
- > Functional test for ECU and electronic board
- > Functional tests for infotainment system

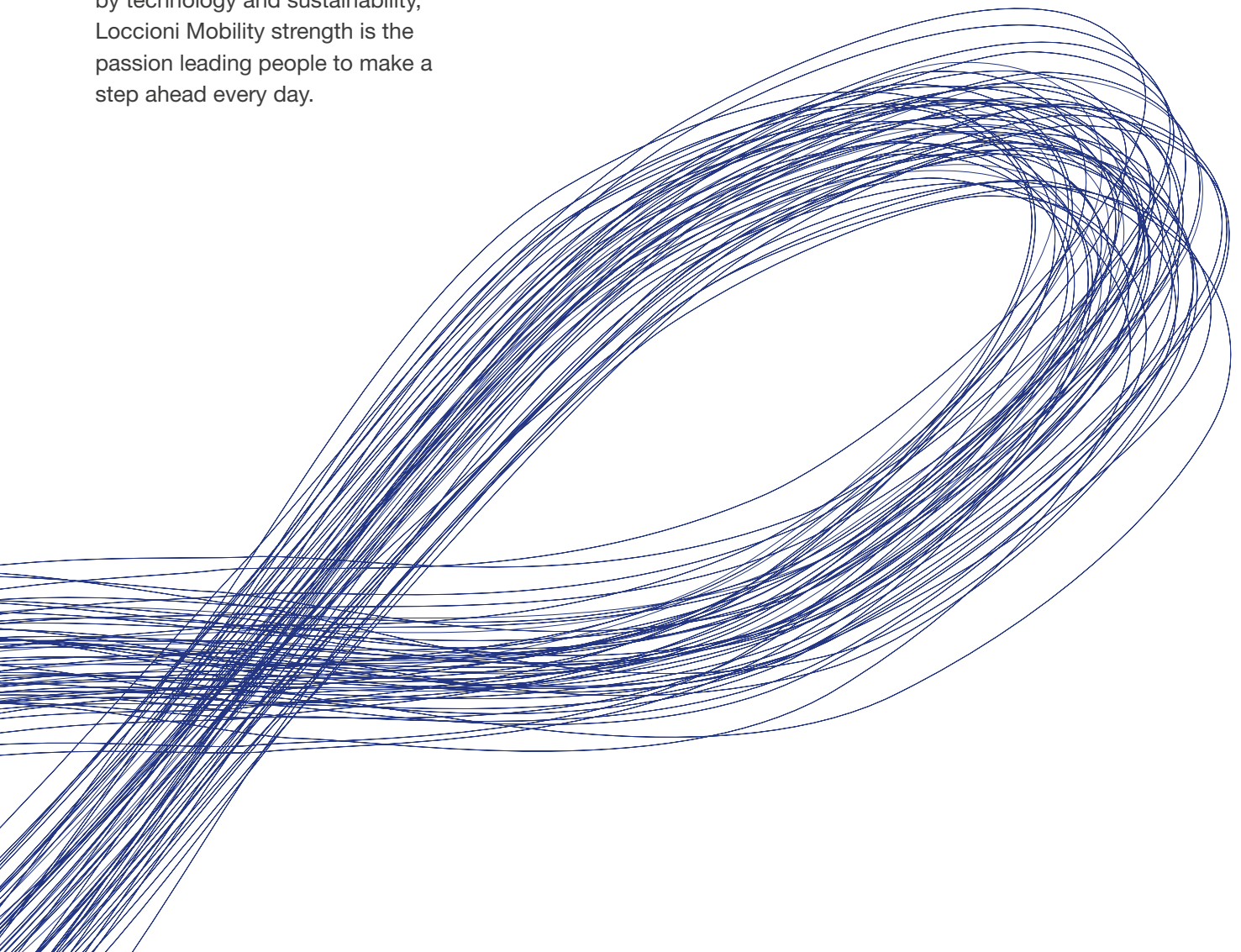


Our technicians, our tools, our laboratories are at your disposal for any other measurement requirements.

MOVING PASSION

To take part in designing the mobility of the future, means to be on the same frontiers our partners are exploring. We want to look ahead together and get ready for new competences, which can even be disruptive respect to our traditional focus. We want to develop knowledge and grow people talent towards the future we imagine. In a market driven by technology and sustainability, Loccioni Mobility strength is the passion leading people to make a step ahead every day.

With the best
in the world to develop
the future of mobility





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