

## Moncalieri Lab

These are our most specialized areas:

- Vehicle & vehicle components homologation (standard or single model)
- Performance and comparative tests (benchmarks) on complete vehicles and / or spare parts
- Metrological analysis and instrument calibration (main measurement quantities: length, pressures, temperatures, torques, forces, electrical, ...)
- Workshop equipped for mechanical interventions on light vehicles (cars and motorcycles) and heavy vehicles, vehicle equipment and instrumentation (thermocouples, accelerometers, etc.) for data acquisition during tests
- Testing and durability on motor vehicles, commercial and industrial vehicles such as:
  - Accelerated reliability tests on standardized paths based on product / mission types
  - Complete vehicle fatigue and vehicle systems on mixed routes
  - For-Life tests (rust resistance)
  - Durability tests on pavé floor
  - Track tests
  - Summer & Winter road tests
  - Wear on tyres tests
  - Tests on ADAS systems
  - RDE (Real Driving Emissions) tests
  - Quality profiles
- Tests to evaluate the state of clogging of particulate filters
- Electronic tests

Moncalieri unit supports OEM customers & tier 1 suppliers in the product development process through kilometric accumulation, accelerated aging fatigue tests and comparative analyses, proposing the best solutions to improve the quality of its products.

The tests on vehicles are performed on routes built according to the real mission of the vehicle and based on the road conditions to simulate the real distance of the car.

In our workshop we have technological tools and equipment such as ovens, thermocouples, torque wrenches, vehicle scales, ETAS diagnostic and specific instrumentation for EASY and WinUDS commercial vehicles, wallbox for charging electric vehicles, a column for rapid charging (60kW), PEMS, etc. Thanks to our widespread international presence, we can offer testing services all over the world.

### Accreditations and Awards

Our calibration laboratory guarantees the metrology service in compliance with the ISO / IEC 17025 standard.