

COMPLETE VEHICLE TEST CELLS TO SIMULATE ALL TYPES OF ROAD CONDITIONS

Relative wind simulation

**Harsh climatic conditions
simulation**

Sunlight simulation

Altitude simulation

D2T offers a range of turn key and customized test cells capable of simulating the types of climatic and environmental conditions experienced on the road

These test cells may be used to carry out the following tests on complete vehicles:

- ✓ **Performance**
- ✓ **Characterization**
- ✓ **Emission control**
- ✓ **Vibration and acoustic behaviour**



SIMULATED WIND TEST BEDS

- Simulated wind from 0 to 250 km/h
- Simulated sunlight
- Controlled temperature above external ambient (up to 50 °C)
- Soak circuit
- Exhaust gas extraction system
- Under-body air flow (road simulation)



CLIMATIC TEST BEDS FOR VEHICLES AND ENGINES



- Simulated wind from 0 to 180 km/h
- Temperature control from -30°C to +50°C
- Moisture control
- Sunlight simulation
- Associated cold chambers
- Chassis dynamometers with climatic control
- New air treatment and exhaust gas extraction systems

ALTITUDE TESTBEDS FOR VEHICLES AND ENGINES

- Altitude from 0 to 4,000 m
- Wind simulation
- Temperature maintained between -30°C to +50°C
- Moisture control
- Chassis dynamometers (power and emission)
- Safety systems
- Video camera and intercom
- New air treatment and exhaust gas extraction systems



EXAMPLES OF INSTALLED SYSTEMS



Examples of systems illustrated in the 4 photos on this page:

- Heavy-duty vehicle test cell with simulated wind
- Climatic test cell
- Altimetric and climatic test cell
- Emission and performance test cell for motorcycles

All standard test cells can be customized on request to meet specific test requirements.