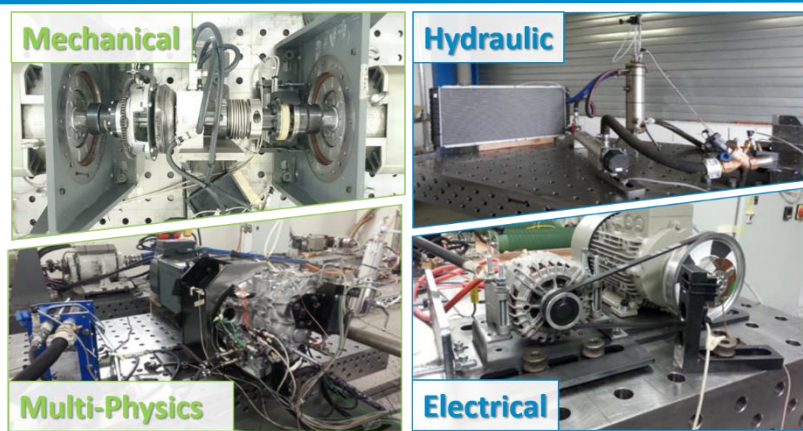


## COMPONENT TEST BENCHES

➔ Measurements ➔ Endurance ➔ Fatigue ➔ Breaking ➔ Characterization

- ❑ **Transmission test bench** : driveshaft, reducer, axles, clutch, vibration absorber, ...
- ❑ **Component test bench** : starter, alternator, A/C compressor, water & oil pump, heat exchanger, ...
- ❑ **Up to 380 kW – Max speed : 18 000 rpm / Max torque : 25 000 N.m**

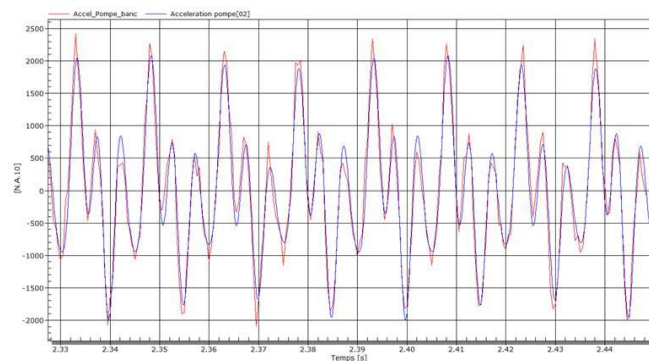


### TEST BENCH MODULARITY

- ✓ **Mechanical** set up coolant
- ✓ **Fluids** circuits mock-up
- ✓ **Electrical** mapping
- ✓ **Multi-Physics** : combination of configuration

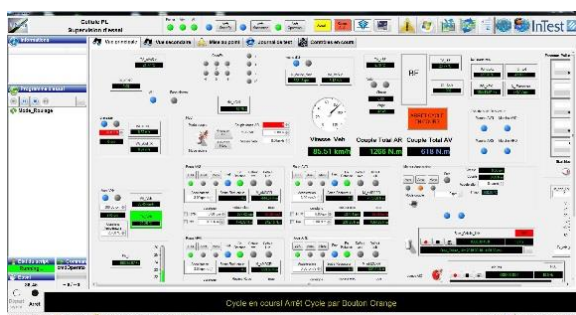
### TEST CAPABILITY

- ✓ **Repeatability** on customer cycles
- ✓ **Torsional vibration**, torque peaks, Inertia compensation
- ✓ Specific **Automation Control** system (up to 2kHz)
  - ➔ High quantity of points by automatic sequences
  - ➔ High frequency transient simulation



### TURN KEY TEST

- ✓ **Instrumentation** and fine tuning setup
- ✓ **Real time checks** and **test** follow up
- ✓ **Report** : Post processing, analysis, model dataset, simulation



*On demand interface*

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## Applications

Performance – Emission – Combined load & climatic - Automatic testing  
 Energy flow mapping– Engine mapping – Vehicle application – Traction control