



E-POWER TEST BENCHES

AUTOMOTIVE POWERTRAIN

E-MOTOR TEST BENCH

The increasingly rapid development and spread of the electric motors in the automotive industry requires the parallel evolution of equipment for carrying out tests, quality control and final inspection of the propulsive structure. Thanks to the considerable expertise developed in over thirty years of activity in close contact with the endothermic engines, Simpro has been capable of developing **test benches for electric and hybrid motors** destined to the last step of the production process (End-of-Line).

They are versatile and modular

applications, capable of performing a wide range of tests on all of the most advanced electric propulsion systems:

- measurement of all **electric parameters**, with or without load (power, efficiency, isolation tests, etc.);
- electric tests on the motor-integrated **inverters**;
- **spectral** analysis;
- full-load test both as **motor** and as **generator**;
- **torque** output analysis;
- measurement of gearbox **ratio**, also for multiple-axis systems;
- **NVH** analysis;

- **electromechanical brake** test;
- **durability** tests.

In case of **hybrid** systems, the test bench is designed to combine the tests of the electric motor with those of the endothermic engine.

The supply is **turnkey** and includes the after-sales service, the training of the involved personnel, the periodic maintenance and the prompt intervention in case of need.

