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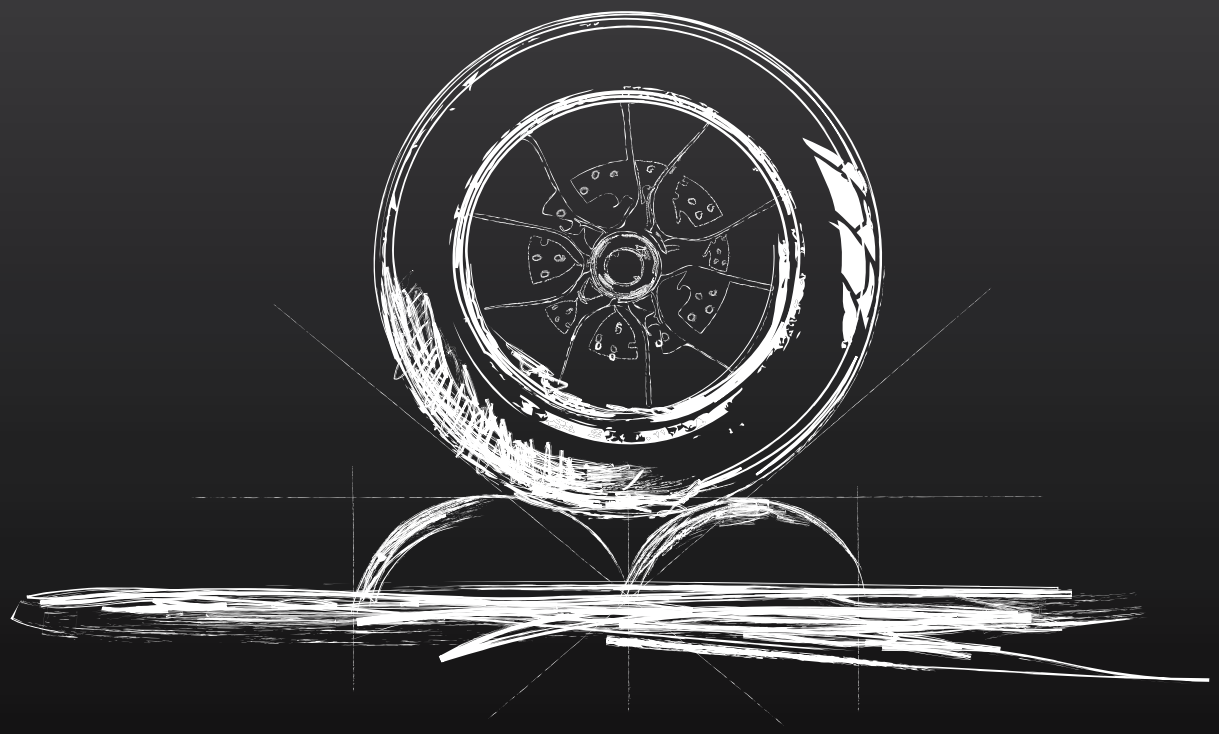
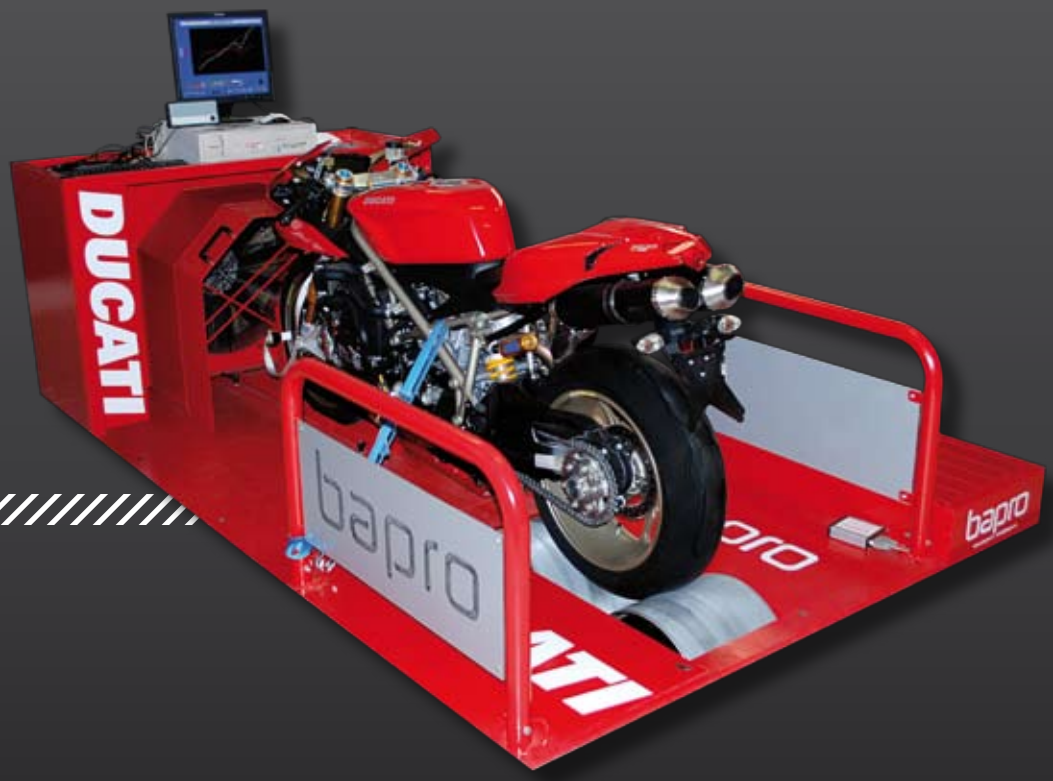


CHASSIS DYNAMOMETERS ROAD SIMULATORS

bapro

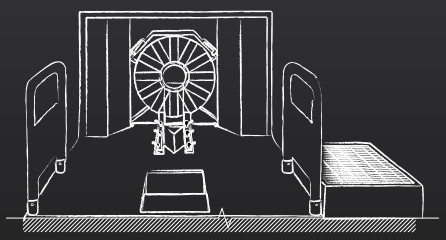
CHASSIS DYNAMOMETERS ROAD SIMULATORS



BPM 2R IN-GROUND

PERFORMANCE

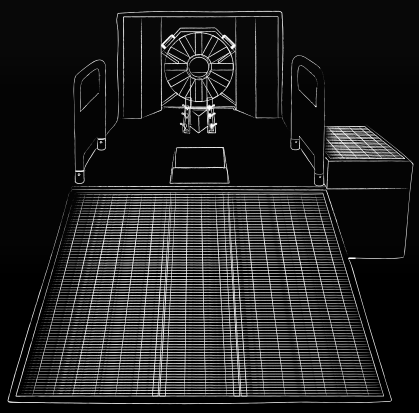
- Maximum Speed 300 km/h
- Maximum Measurable Power 500 CV
- Maximum Traction Force 5000 N



BPM 2R ON-GROUND

PERFORMANCE

- Maximum Speed 300 km/h
- Maximum Measurable Power 500 CV
- Maximum Traction Force 5000 N



TECHNICAL DIFFERENCES AMONG UPGRADED INERTIAL BENCHES AND BAPRO CHASSIS DYNAMOMETERS - ROAD SIMULATORS

- The inertial bench is completely based on rollers inertia (directly related to its weight) and though it is necessary to ballast the rollers in order to run a decent test.
  On one hand this is the reason why when you test low power vehicles you get too long runs with bad results; on the other hand high performance vehicles face the serious risk to run too short tests due to high accelerations that cannot replicate normal road conditions (even the ECU does not control the engine properly).

- Adding a brake to an inertial bench has several implications.
  Among them we can talk about the big problems with stiffness and rectilinearity and the more overload because of the rotors inertia.
  For these reasons little vehicles are disadvantaged. The increased total weight infl uences the tests that can be performed because the rollers take much time to slow down. Some competitors use auxiliary brakes, but this is not exactly the right solution. Moreover it is not possible to calculate exactly the wasted power of the transmission fundamental for calculating shaft power. This is the only one that counts!

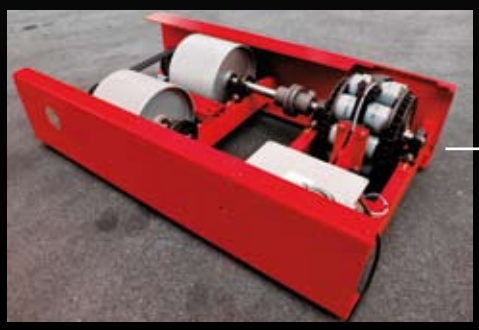
- Low levels of inertia on the rollers (Bapro design presents hollow and lightened rollers) and a joint work done by the brake and the electronic board are the optimal solutions. This is the only way to adapt the load to all the possible conditions and to have the best control of the transient between low and high loads. High levels of inertia prevents the test from having detailed results: it acts like a fi lter! Good results on the paper does not refl ect good performances of the engine.

ROLLER KNURLED

Bapro is the only one to adopt the cut knurling that gives the best grip to the tyre.

EDDY CURRENT BRAKE WITH LOAD CELL

Allows to perform load tests at fi xed rpm.



HIGH STRENGTH STEEL FRAME

Allows to test high power heavy vehicles ensuring steady measures over time.

COMPANY PROFILE

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- Bapro is the only company totally dedicated to the development and production of chassis dynamometers/road simulators for cars and motorbikes.
  The hardware and software design is carried out in house by our technician: this allows us to be independent from any third part supplier and to know exactly every working detail of our instruments.

- Bapro is working continuously to the development of its products in both for the vehicles evolution and for the customers requests. We customize our instruments on specifi c requests and provide consulting services for the installation in the most suitable area.
  Bapro offers the right solution to every needs: installation in the area chosen by the customer, installation on moving truck or trailer, installation with soundproof cabin and ventilation system.

- Bapro chassis dynamometers/road simulators are designed only in braked confi guration by eddy current brake. That is the reason why all the hardware is designed to adsorb the vehicle power and therefore has characteristics of high resistance.

- Our products differ from the competitors because they are designed as a complete tool: extremely sophisticated devices, but at the same time very simple and intuitive use by the end user.

- The old generation dynamometers (inertial and the first generation braked) are confi ned to typical tests of a few seconds, that sometimes you can not run because of tyres slippage.

- Bapro chassis dynamometers/road simulators allow you to perform any kind of tests for as long as you desire. With Bapro road simulator you can perform all the tests and checks in real road conditions, without exposing the operator to risks arising from a road test (loss of license points, traffi c, speed limits, accidents, weather conditions I.E.).

- The tool integrates with the equipment already installed in the workshop to perform repairs in real-time, that could be impossible to complete on the road: you can obtain a signifi cant saving of time and money by eliminating all the extra time to exit and entry the workshop.
  Bapro chassis dynamometers/road simulator satisfi es the needs concerning in-service vehicles, which are subject to "inspection" with particular attention to the polluting emissions and noise levels of the exhaust systems.

- Bapro chassis dynamometer/road simulator allows to verify specifi c anti-pollution systems as catalytic converter and FAP fi lters (for car sector) and injection management systems for methane/LPG (both in original equipment and after market devices).

- In order to improve the service level to the customers, this equipment will lead you to an increase of productivity by allowing you to reduce both reparation times and the level of customers' professionality.

- Bapro chassis dynamometer/road simulator allows to issue a delivery certifi cation that testify the quality of the work done. This allows to the sales force to guarantee a unique and complete service to your fi nal customers in a simple way.

- Bapro chassis dynamometer/road simulator is compliant to every laws in force and EC guidelines On the commercial side Bapro offers specifi c solutions on demand.

bapro Technology as passion!

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