

FROM MOPEDS TO LORRIES ...

DYNAMOMETERS AT TU GRAZ

Vehicles of different sizes and with different engines can be tested on several roller test benches (dynamometers) at the Institute of Thermodynamics and Sustainable Propulsion Systems at TU Graz. “We can test all types of road vehicles, from mopeds to articulated buses and from combustion engines to hydrogen-powered vehicles,” explains Stefan Hausberger, who manages the test benches.



- 1 The steel rollers built into the floor can simulate driving resistance in all possible driving conditions, gradients and speeds thanks to the powerful electric motor.
- 2 Sophisticated measurement technology captures all the data to be checked and, since the conversion a year ago, it also includes emissions – such as tyre or brake dust.
- 3 Up to now, classic combustion engines and electric vehicles could be tested on the lorry dynamometer. Since the modernisation, a highly sensitive measuring system and corresponding safety technology also ensure that vehicles propelled by hydrogen can be tested. A climate system also ensures different climatic test conditions.
- 4+5 In addition to lorries, cars and two-wheelers can also be tested.





INFO BOX

- Max. axle load: 12 t
- Max. tractive force: 22 kN
- Max. braking performance: 300 kW
- Max. speed: 120 km/h
- Roller diameter: 0.5 m
- Simulatable vehicle mass: 3.5 t-40 t



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CONTACT

The test bench is open for test requests.

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