

WHO WE ARE



TecSA S.r.l. has thirty years of experience in the field of braking system testing laboratories.

Our activities include the manufacture of new machinery and the revamping/updating of existing test benches.

Over the years, TecSA products have undergone continuous evolution and updating:

- PC, latest generation electronic and mechatronic solutions
- Increased performances, along with ease of use and high production yield.

The automation level allows our machines to work in safely conditions even in the absence of the operators. The tests can therefore also be performed at night or during the weekends.

Several machines have been supplied for quality control and product development.

The main ones are:

- dynamometers for passenger and racing automotive sectors
- dynamometers for light commercial vehicle sector
- dynamometers for truck and railway sectors
- FQT (Friction Quality Test) for quality control and/or aftermarket development
- SST (Shear Strength Test) for detachment of friction material from the backplate
- Compressibility
- Alternate torque

Thanks to the close relationship established with its customers, TecSA has developed procedures that meet both international standards (including homologation) and research needs, with high flexibility and the possibility of customizing tests.

- Sprinkling on brake: water, salt water, snow
- Regenerative brakes (electric and hybrid vehicles)



TRUCK AND RAILWAY TEST BENCH BRAKE INERTIA DYNAMOMETER:



Model TT 2200



Model TR 2600

Brake
Inertia
Dynamometers
For Research
&
Development,
Homologations
And your
Special Test
Purposes

TecSA S.r.l.

Via Torino 43, 10067 Vigone - Metropolitan City of Turin - Italy

Tel: +39 011 980 40 01 - Fax: +39 011 980 40 06

E-mail: info@tecsa-srl.it - Web: www.tecsa-srl.it VAT: IT06805060016

Aderenti al modello Ex D.Lgs. 231/2001 (MOGC 2017)

TT 2200



Dynamometer for Truck sector

- Performance tests for light commercial vehicles and heavy commercial vehicles



FEATURES

- DC Motor: 444 kW
- Max. Braking Moment (Torqueing Moment): 40000 Nm
- Max. Pneumatic Pressure: 15 bar
- Max. Speed: 1500 rpm
- Three Inertia Flywheels in Free Combination: 300-600-1200 kgm²
- Inertia Range: 30-2500 kgm²
- Inertia Simulation
- Modulated Airflow: max. 8000 m³/h

OPTIONS

- Homokinetic Joint and Axle Assembly
- Hydraulic Brakes: 200 bar
- Static Friction: max. 40000 Nm, 5 rpm
- Noise Acquisition (equivalent level)
- Absorption Tests
- Stroke Measurement of Brake Actuator
- DTV (Disc Thickness Variation)

BRAKE MOUNTINGS

Simple



with Axle



with Wheel Hub



TR 2600

Dynamometer for Truck and Railway sectors

- Performance tests for light and heavy commercial vehicles and railways sector



Brake Mounting:

- Truck: simple, with wheel hub, with axle
- Railways: drum brakes, disc brakes

FEATURES

- DC Motor: 493 kW
- Max. Braking Moment (Torqueing Moment): 40000 Nm
- Max. Pressure: 15 bar
- Max. Speed: 2100 rpm (350 km/h)
- Four Inertia Flywheels in Free Combination: 350-350-700-1050 kgm²
- Inertia Range (at 1 g): 30-5100 kgm²
- Inertia Simulation
- Modulated Airflow: max. 14000 m³/h

OPTIONS

- Homokinetic Joint and Axle Assembly
- Hydraulic Brakes: 200 bar
- Static Friction: max. 40000 Nm, 5 rpm
- Noise Acquisition (equivalent level)
- Absorption Tests
- Stroke Measurement of Brake Actuator
- DTV (Disc Thickness Variation)
- Climatic System
- Sprinkling System: Water, Salted Water, Snow

BRAKE MOUNTINGS (ALL THE MOUNTINGS OF MODEL TT 2200) + THE FOLLOWING SOLUTIONS:

Drum Brakes

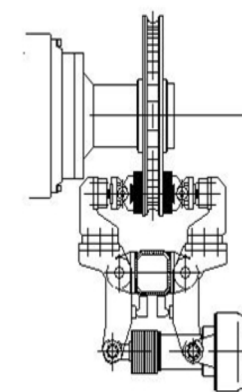


Disc Brakes



RESEARCH & INNOVATION

TecSA operates as a strategic partner for the development of new braking components and assists the main market players in the analysis and research of new solutions.



Always attentive to market demands and thanks to constant collaboration with its customers, TecSA responds in real time to innovations in the field of brakes.

TecSA has developed testing procedures to meet international standards (including approvals) and individual research needs, through an extremely flexible and customizable software.

The capabilities of our machines include:

- Implementation of profiles (from telemetry) and WLTP
- KERS applications
- Dust survey and analysis
- NVH
- EPB system (electric park brake)

OUR ASSISTANCE, ALL OVER THE WORLD. PROGRAMMED AND PREVENTIVE ASSISTANCE



Periodical inspection of our benches for:

- ordinary maintenance
- lubrication of bearings and mechanical components
- calibrations



EXTRAORDINARY MAINTENANCE

Extraordinary maintenance is provided in three steps:

- Diagnosis of the problem and hotline/email assistance
- Remote control assistance
- On-site intervention, through the technicians of our assistance services subdivided in geographical areas



REPLACEMENTS

All the spare parts are freely available on the market, to allow our Customers to reduce times and costs, by autonomously selecting their own suppliers and reducing/removing transport costs and customs clearance.

Our assistance centers, subdivided for geographical areas, have warehouses already provided with spare parts that, commonly, need periodical substitution:

- electronical components: PCs, control and acquisition systems, conditioning modules, transducers (pressure), etc.
- electromechanical components: fuses, drives, relès, contactors, thermals, etc.
- items for periodical maintenance interventions

