

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 performance, 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.

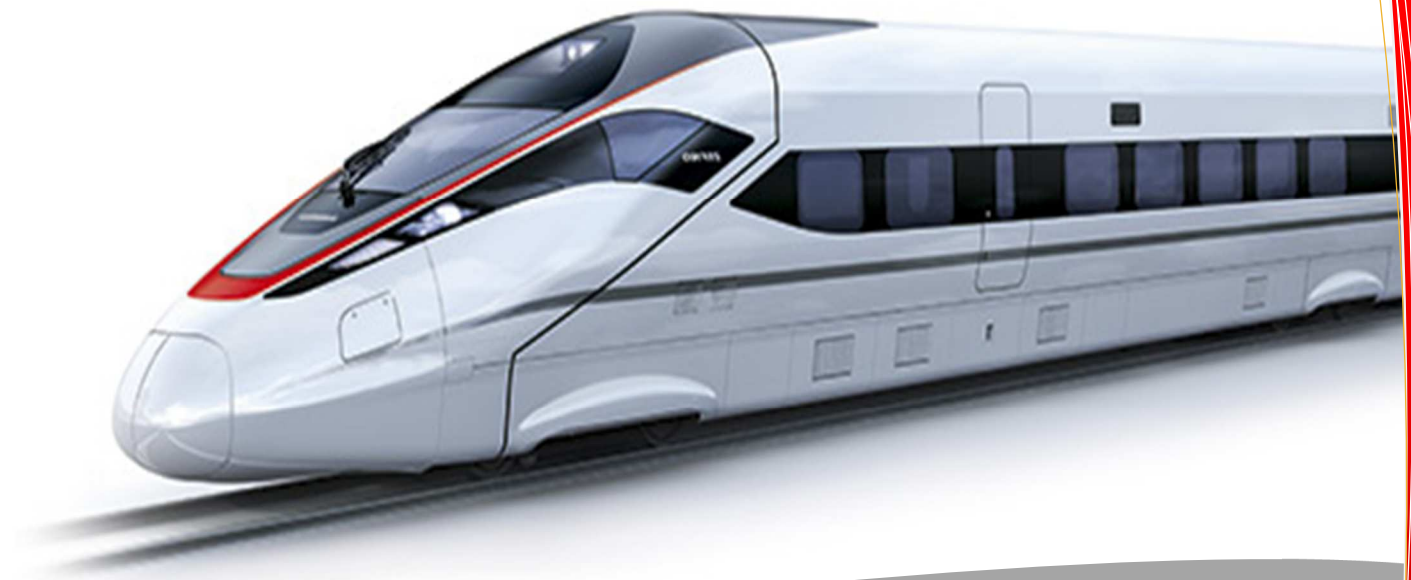
Several machines have been supplied for quality control and product development.

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)



HIGH SPEED RAILWAY TEST BENCH

HIGH SPEED TRAINS BRAKE INERTIA DYNAMOMETER:



Model HSR

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

HSR

Dynamometer for High Speed Railway sector



- Performance tests for railways sector, especially for high speed railways sector



FEATURES

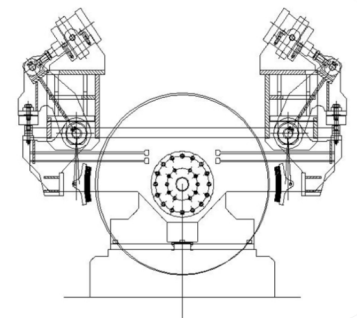
- AC Motor: 500 kW
- Max. Braking Moment (Torqueing Moment): 30000 Nm
- Max. Pressure: 15 bar
- Max. Speed: 3000 rpm (560 km/h)
- Inertia Range: 100-5100 kgm²
- Modulated Airflow: max. 14000 m³/h

OPTIONS

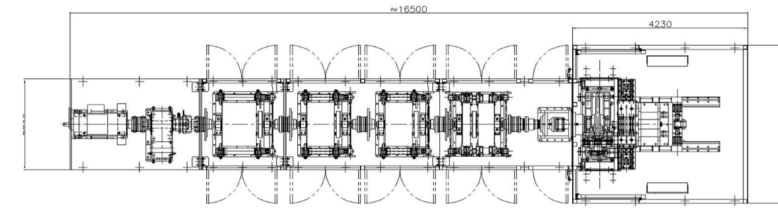
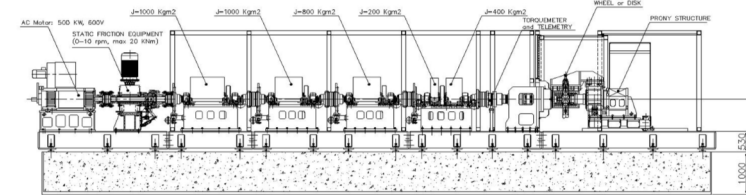
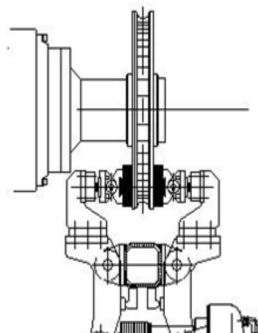
- Static Friction: max. 30000 Nm, 5 rpm
- Noise Acquisition (equivalent level)
- DTV (Disc Thickness Variation)
- Climatic System
- Sprinkling System: Water, Snow

BRAKE MOUNTINGS

Drum Brake



Disc Brake



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)
- NVH

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

