

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.

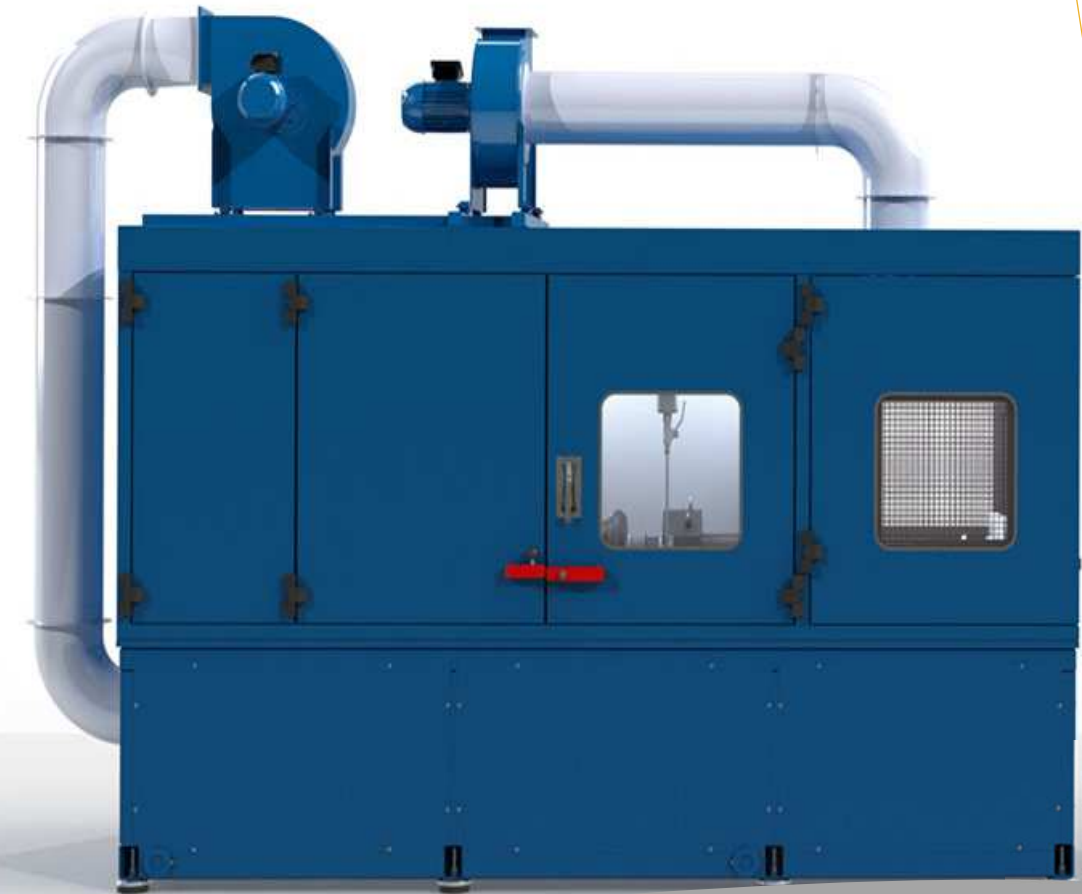
Several machines have been supplied for quality control and product development.

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)



FQT FRICTION QUALITY TEST MACHINE:

- Model FQT 1200
- Model FQT 2000

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

FQT 1200

Friction Quality Test machine



• Drag Tests at 660 rpm

• Development of friction materials

• Tests at variable speed



• .FEATURES

• AC Motor: 110 kW

• Max. Braking Moment (Torqueing Moment): 1500 Nm

• Max. Pressure: 200 bar

• Constant Speed: 660 rpm

• Simulated Inertia Range (at 1g): 1-30 kgm²

• Modulated Airflow: max. 2500 m³/h

• .OPTIONS

• Max. Speed: 1600 rpm

• Hand Brake (Parking Brake): max. 2000 N

• Static Friction: max. 1200 Nm

• Variable Speed (dynamic brake applications)

BRAKE MOUNTINGS

Simple



FQT 2000

Friction Quality Test machine



• Drag Tests at 660 rpm

• Development of friction materials

• Tests at variable speed



• .FEATURES

• AC Motor: 200 kW

• Max. Braking Moment (Torqueing Moment): 2000 Nm

• Max. Pressure: 200 bar

• Constant Speed: 660 rpm

• Simulated Inertia Range (at 1g): 1-80 kgm²

• Modulated Airflow: max. 2500 m³/h

• .OPTIONS

• Max. Speed: 2000 rpm

• Hand Brake (Parking Brake): max. 2000 N

• Water Sprinkling System

• Static friction with main motor: 1865 Nm

• Variable Speed (dynamic brake applications)

BRAKE MOUNTINGS

Simple



With Wheel Hub



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 - LAP racing) 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 selected their own supplier 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**

