

## 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.

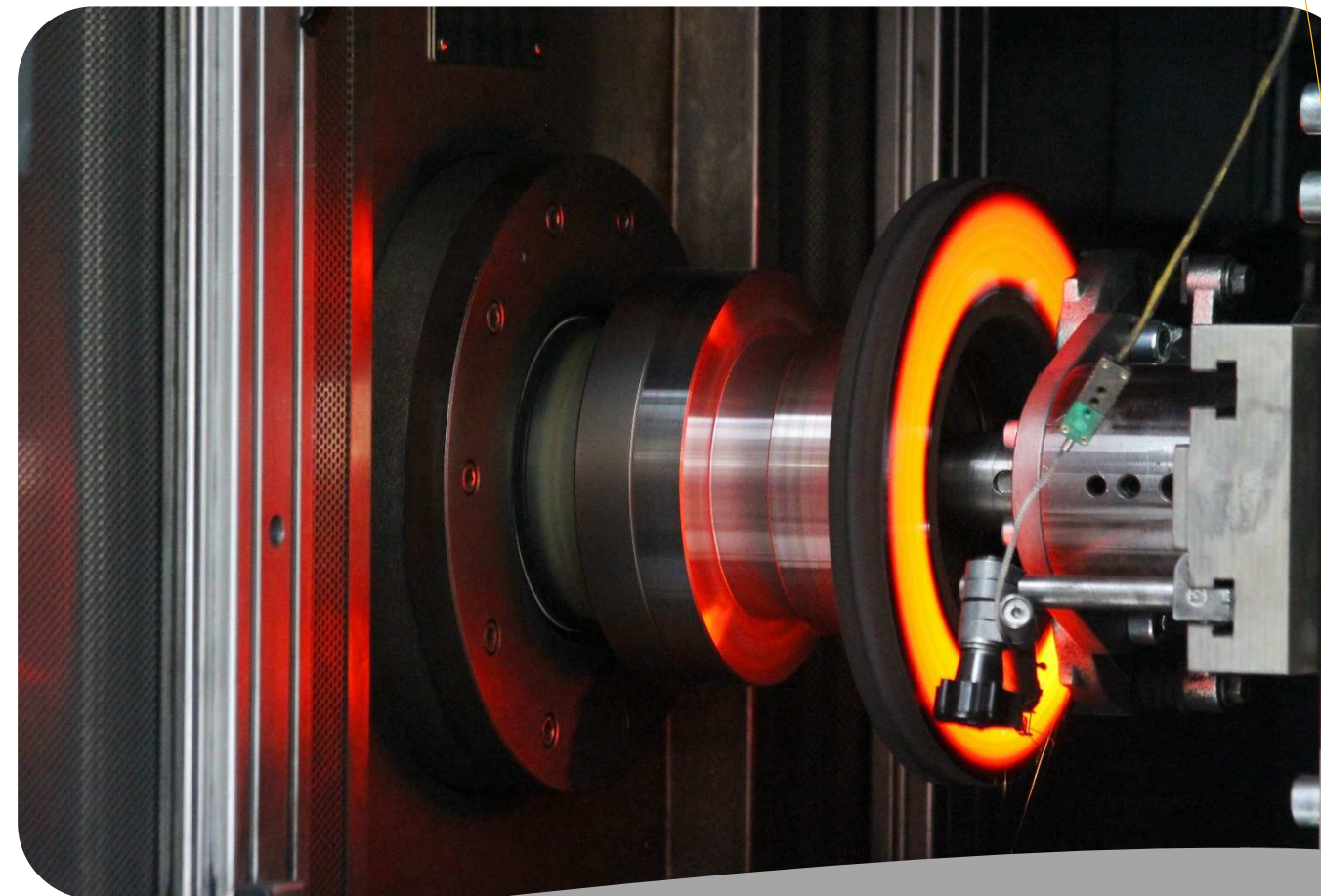
Several machines have been supplied for quality control and product development.

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)



## TEST SERVICE - TecSA R&D

 Tests on Brake  
Systems for Our  
Customers

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



EACH INTERNATIONAL BODY (E.G. ECE, SAE, JASO, ETC.) DEFINES THE STANDARDS TO PERFORM THE DIFFERENT TESTS AND EVEN MUCH MORE ARE REQUIRED BY EACH CAR MANUFACTURER.

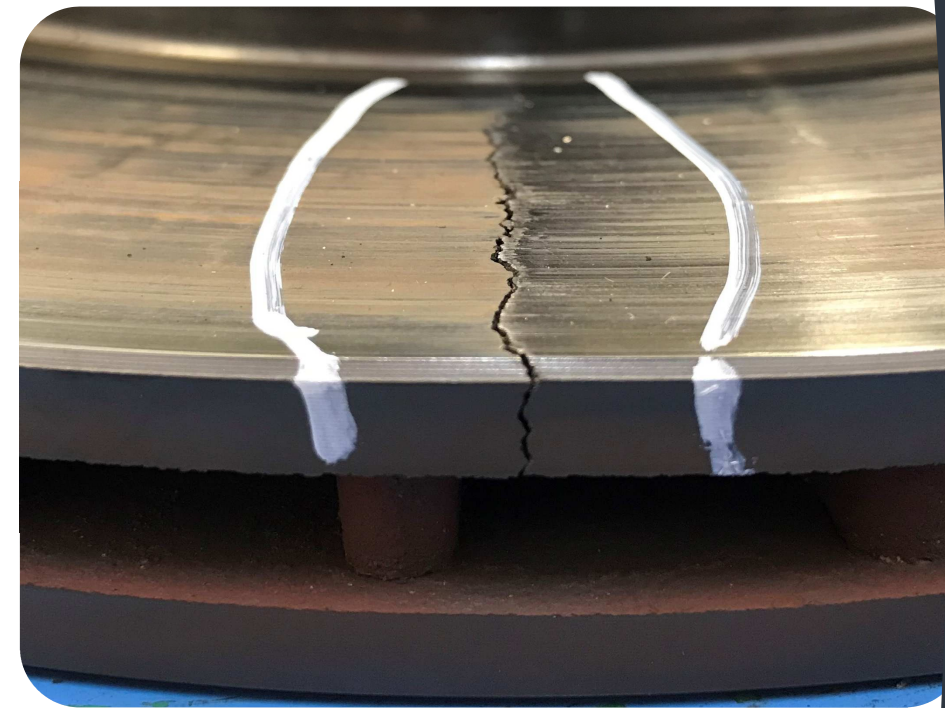
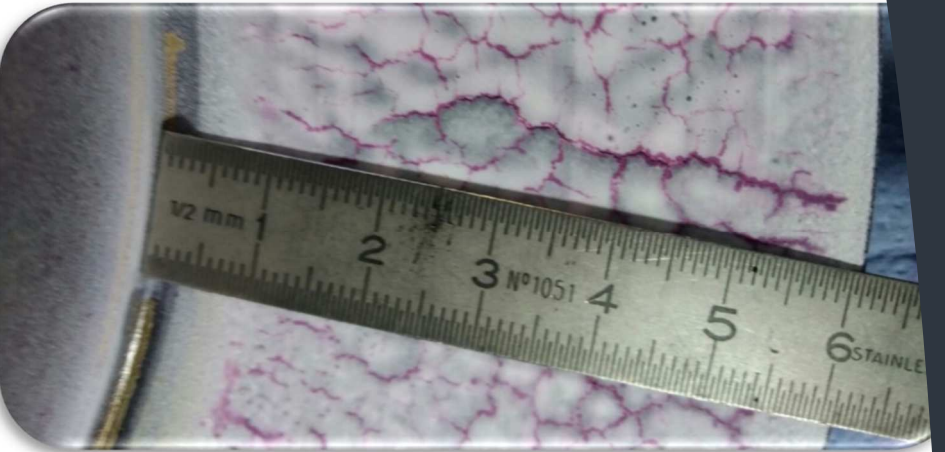
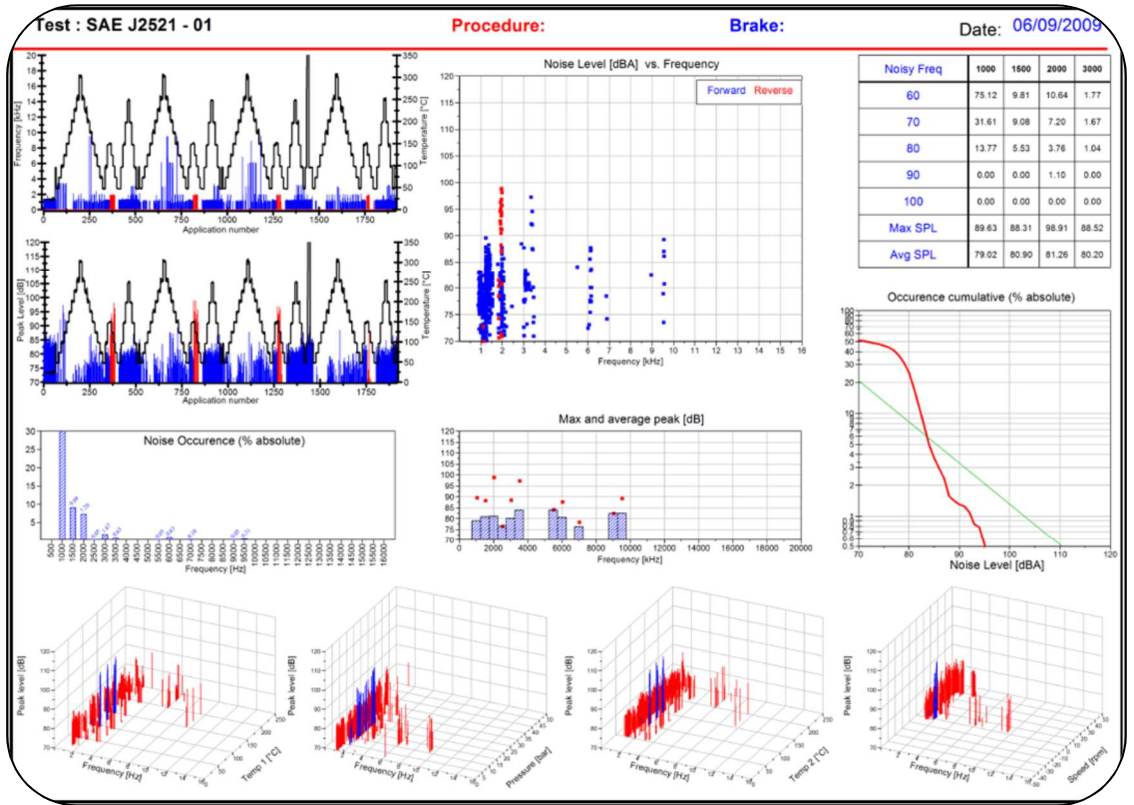
FROM THE EXPERIENCE OF TECSA, TECSA R&D HAS BEEN ESTABLISHED AS A SPECIALIZED LABORATORY TO PERFORM TESTS ON BRAKE COMPONENTS (DISCS, PADS, CALIPERS AND DRUM BRAKES) FOR OUR CUSTOMERS.

Our personnel will advise you towards the test typologies that better fit to your needs, e.g.:

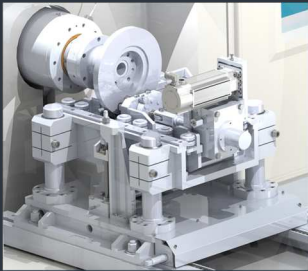
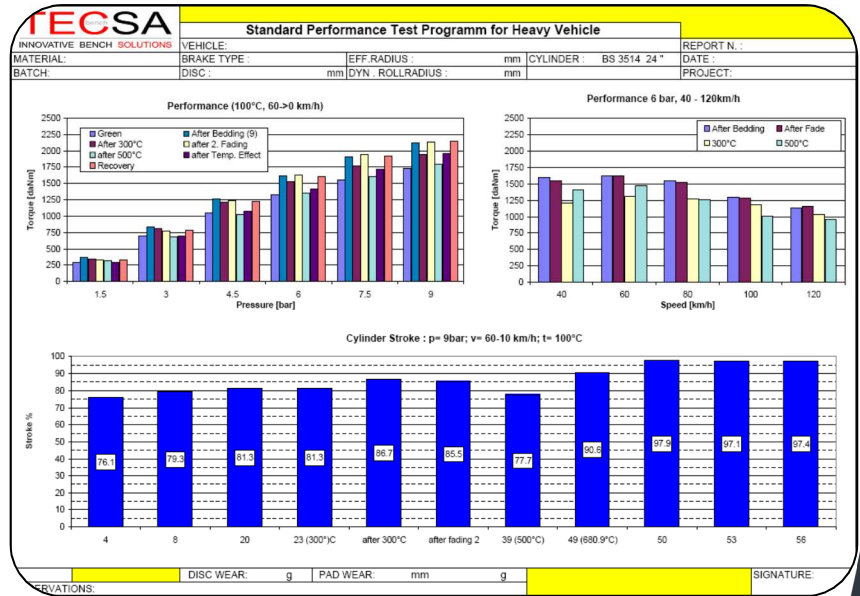
- homologation tests in partnership with the most important certification agencies (e.g. ECE-R90, R13, etc.)
- quality control tests (e.g. tests at constant speed 660 rpm)
- performance tests (e.g. AK Master, ISO26867, SAE-J 2522, JASO C406, UIC 541, AMS, etc.)
- NVH (e.g. SAE-J 2521, etc.)
- climatization system
- dust analysis
- electric hand brake (park brake)/electric brake
- regenerative brake application

The possibility to customize the tests is particularly appreciated by R&D departments of our Customers.

CAR DYNO REPORT



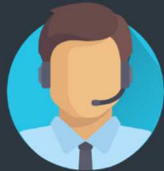
TRUCK DYNO REPORT



TEST EXECUTION SUPPORT

TecSA R&D personnel is at your disposal to define the test typologies the Customer is willing to perform.

- Description of new tests according to international regulations and technical specifications of OEMs
- Development of new test procedures
- Analysis of results
- Drafting of final reports



INNOVATIVE TEST PROCEDURES

The continuous evolution of regulations and markets is permanently requiring new test procedures.

In the last years, TecSA R&D has developed the technology to perform the following tests:

- Severe climatic condition (snow simulation, water sprinkling, etc.)
- Dust analysis
- Custom Caliper (specific equipment for brake tests in minimal force)

