

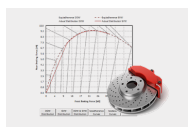
Brake engineering & testing services

IDIADA's brake systems section is an engineering partner to the automotive industry, providing **complete solutions for brake development projects worldwide.**

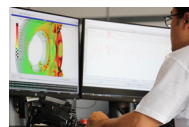
BRAKE DEVELOPMENT SUPPORT



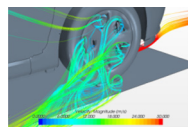
Concept Definition



Benchmarking & Target Setting



Brake Design



Virtual Development



Dynamometer Testing



Development Test



Sign-off

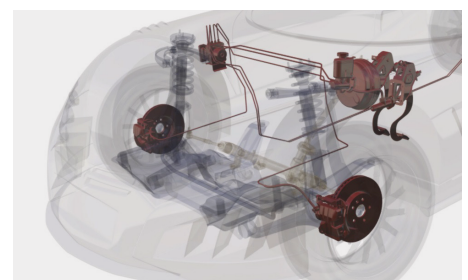
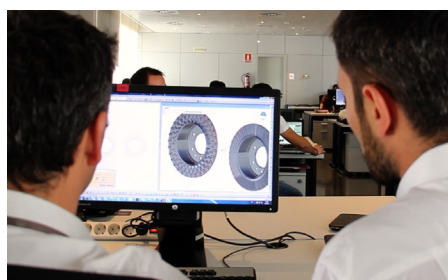


INTEGRATION BETWEEN DIFFERENT AREAS
DESIGN • SIMULATION • ELECTRONICS • TESTING

BRAKE DESIGN ENGINEERING

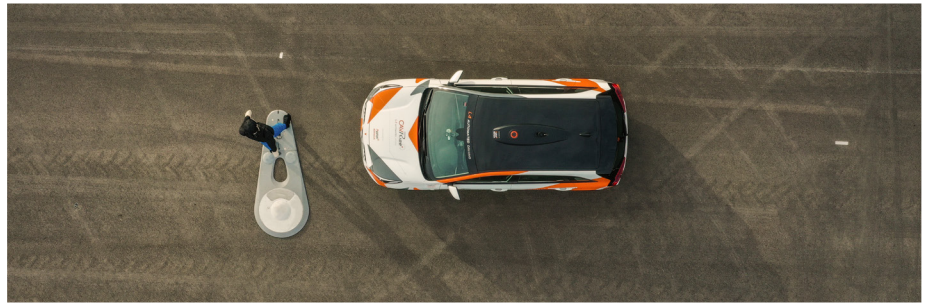
OEM oriented design conception with leading competences for full vehicle development projects.

- Brakes dimensioning calculations
- Initial packaging studies
- Concept design sheets
- Component definition
- BOM management
- Supplier management
- Target setting and verification
- Final sign-off
- Product life quality maintenance



BRAKE ELECTRONIC INTEGRATION

- Brake redundancy concept study for CAVs
- Support in brake logic actuation for Brake-by-Wire systems
- Turn key projects for brake electronic integration



BRAKE PERFORMANCE MANAGEMENT

State-of-the-art tools and facilities to conduct complete test programmes at component and vehicle level.

BRAKE BENCHMARKING VIRTUAL DEVELOPMENT

- Thermo-mechanical analysis
- CFD analysis
- NVH analysis



BRAKE TESTING ACTIVITIES

- Brake dynamometer testing
- Brake performance testing in PG
- Brake thermal validation in PG
- Advanced brake NVH support
- On-road brake durability
- Electronic brake control
- Brake dust emissions testing



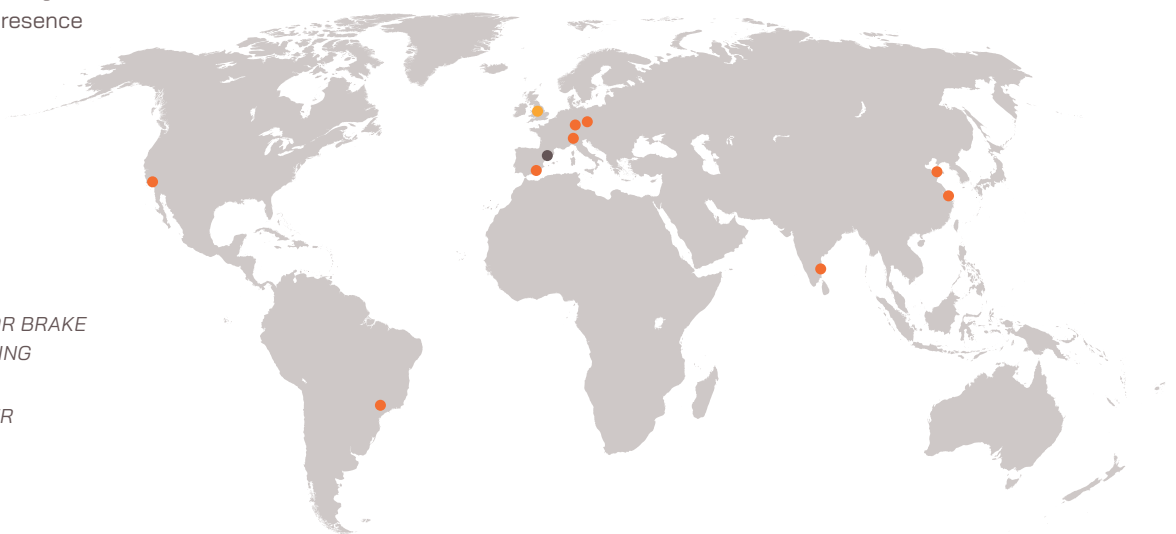
GLOBAL PRESENCE

- Project management
- Integration of design, simulation and testing
- Design led by functionality
- Strong international presence

● HEADQUARTERS & TECHNICAL CENTRE

● PERMANENT BASE FOR BRAKE ENGINEERING & TESTING

● BRAKE DYNAMOMETER LABORATORY



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