

VEHICLE SAFETY AND CERTIFICATION

I+D

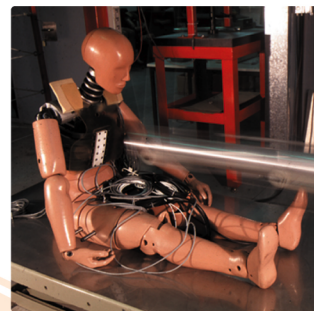


Our aeronautical activity, with structures and new materials, enables us to improve active and passive safety standards in the automotive industry.

INTA is authorized to give type approval to any motor vehicle that is to be used on European roads. This has been an INTA activity since the end of the 1950s.

INTA's Vehicle Experimentation and Certification Center, a pioneering unit in Europe, is specialized in making all types of tests for the certification of vehicles in all aspects of:

- Passive and active safety.
- European Type Certification.
- Spanish Type Certification.
- Spanish national certification of special vehicles.



Equipment for calibrating dummies.

PRODUCTS

For manufacturers of vehicles, systems, components or independent technical units, INTA has the most complete test catalog for the certification of products in accordance with all the applicable European directives, as well as with all the regulations attached to the Geneva Agreement of 1958.

INTA also offers engineering services for performing development trials and tests on those aspects related with the above-cited standards.

Specifically, the Vehicle Safety and Certification area is specialized in:

- Design of "a la carte" certification programs, according to the characteristics of the product to be certified, the manufacturers' needs, etc.
- Formulation of just-in-time certification procedures, the result of more than 20 years of experience in the vehicle, components and systems certification field. These procedures are designed to minimize the certification time and execution cost.

Assembly of a hybrid.





Seat and headrest testing equipment.



Active and passive safety testing laboratory.

FACILITIES AND EQUIPMENT

INTA has all the facilities and equipment required to carry out all the tests in compliance with the previously mentioned standards. Among these facilities, the following can be highlighted:

- Testing tracks.
- Circular testing track, perimeter: 3 km.
- High adherence braking track.
- Braking tracks for ABS systems, for light vehicles, trucks and buses.
- Ramps with 8%, 12% and 18% inclines.
- Equipment for braking and steering tests of all types of vehicles.
- Catapults for running sled impact tests on safety belts, seats and airbag systems.
- Catapult for performing vehicle impact tests, compatible for head-on, side or rear-end impacts.
- Systems for calibrating dummies.
- System for testing fuel tanks manufactured with plastic materials.
- Hydraulic system for performing tests on seats and safety belt anchoring.
- Tests of head impact on dashboards and vehicle interiors.
- All the testing systems required for analyzing compliance with those directives that are specifically applicable to motorcycles and quadricycles.
- All the testing systems required for analyzing compliance with those directives that are specifically applicable to the rest of motor vehicle types.

KEY CUSTOMERS

The customers of INTA's Vehicle Experimentation and Certification Center are automobile and automotive parts manufacturers, both Spanish and international, among which the following can be cited: AUTOLIV, BMW, CITROEN, FORD, HONDA, IVECO, MERCEDES BENZ, NISSAN, PEUGEOT, PORSCHE, RENAULT Vehiculos Industriales, SANTANA, SEAT, SUZUKI, TOYOTA, VOLKSWAGEN, VOLVO and YAMAHA, among others.

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Testing a vehicle on the test track.

