



Testing of road safety devices

Applus IDIADA is a partner to the automotive industry worldwide in its product development activities by providing design, engineering, testing and homologation services.

Our success is built on:

- An international team of more than 1.400 engineers and technicians specialized in automotive product development.
- First class testing facilities including a modern comprehensive proving ground and state-of-the-art laboratories.

In the field of passive safety, Applus IDIADA carries out global development projects for all types of vehicles. These projects include design, simulation, physical testing, restraint systems integration and the evaluation and development of devices for the protection of pedestrians and cyclists. The company also has a team specialized in traffic accident reconstruction.

The main office and technical centre is located in the province of Tarragona. Applus IDIADA also has an international network of local offices and subsidiaries in 24 countries.

Testing capabilities

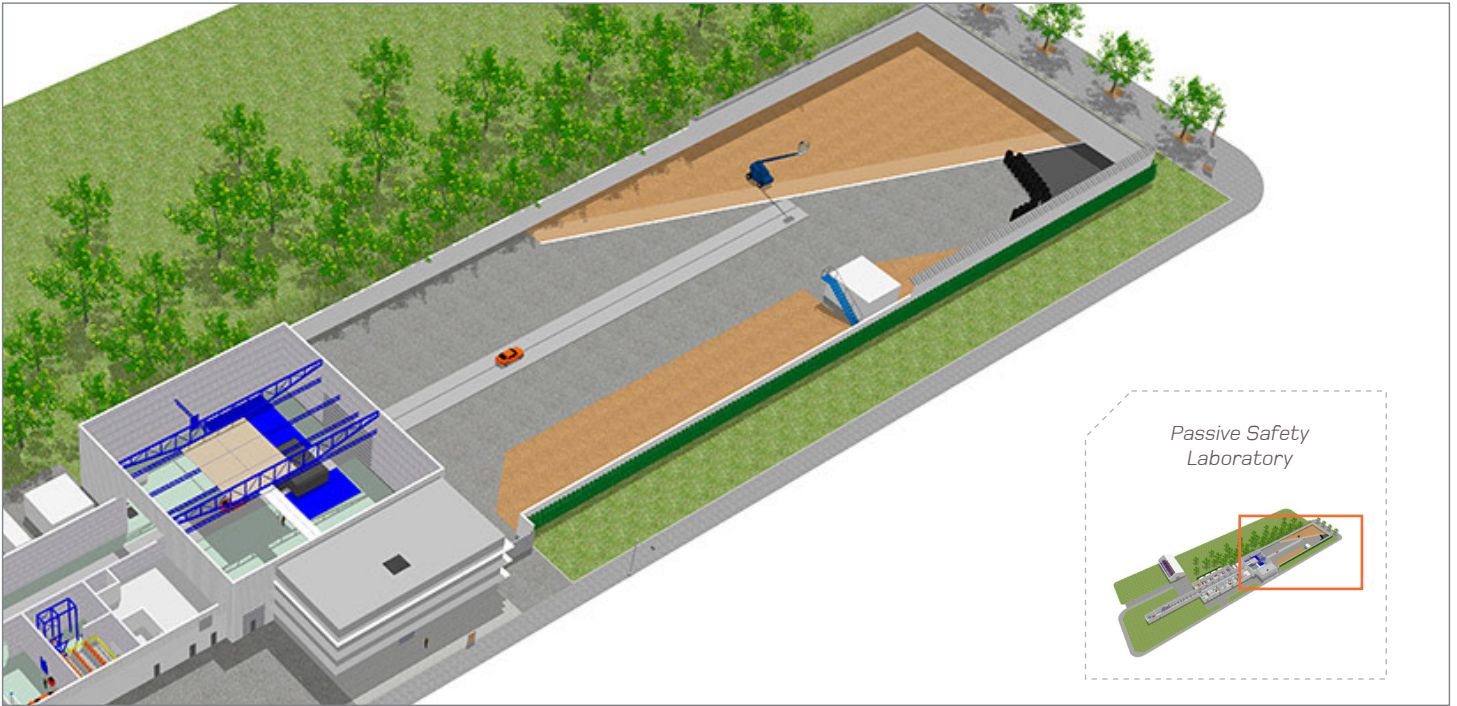
Applus IDIADA has invested in the best technical resources and infrastructure to ensure efficiency, flexibility and reliability in the testing of road safety devices.

Types of tests:

- UNE-EN 1317: Testing of road restraints systems
- UNE 135900: Evaluation tests of the behaviour of motorcyclist protection systems in safety barriers and guardrails
- UNE-EN 12767: Tests of support structures for road equipment



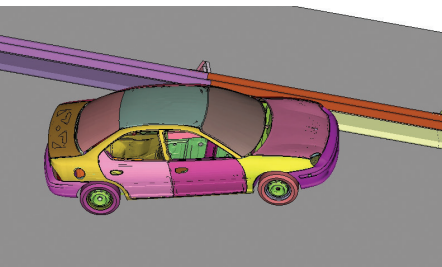
Characteristics of the facility



- 84 m-long installable barrier
- 1700 m² of compacted soil
- Robust guidance system for maximum precision of angle, position and impact speed
- Propulsion system using 500 kw DC electric motor
- Maximum pulling speed 120 km/h
- Colour filming with high-speed digital cameras (1000 fps)
- Additional personalized instrumentation

Engineering services

- Comprehensive vehicle projects
 - Styling and feasibility
 - Product design engineering - CAD
 - Product simulation engineering - CAE
 - Development tests
 - Product optimization - materials and processes
- Support in product improvement during the test
- Simulation
 - Close collaboration with test laboratories
 - PRO/ENGINEER, CATIA, ANSA/META, PAM-CRASH/SAFE, RADIOSS, LS-DYNA, MADYMO
- Definition of new tests for product development
 - Specification of new systems - Accident investigation
 - Systems for protecting vulnerable users
 - Alternative test methods - Dynamic impacts



Contact information

 **Applus IDIADA USA** • 9270 Holly Road • Adelanto, CA 92301, USA

 For further details, please contact:  idiada_USA@idiada.com  +1 760 246 1672

Follow us on:



YouTube

www.idiada.com