



ADDITIUM

designs state-of-the-art
Full Scale Crash Test Facilities to
perform different type of tests:

- ⦿ Frontal impact
- ⦿ Side impact
- ⦿ Rear impact
- ⦿ Car to Car impact with different angles
- ⦿ Low speed / Bumper impact
- ⦿ Oblique test
- ⦿ Small overlap test
- ⦿ Rollover test:
 - Dolly
 - Embankment
 - Soil / Curb trip
 - Cork Screw
 - Friction
- ⦿ Other types of test: Motorcycle, Infrastructure

ADDITIUM includes a turn-key supply:

- ✓ Propulsion and Guidance system
- ✓ Key Civil Works Design
- ✓ Filming Pits
- ✓ Movable Impact Block / Fix Impact Block
- ✓ Movable Deformable Barriers
- ✓ Auxiliary fixtures
- ✓ Lighting System (LED or HMI)
- ✓ Training

Full Scale Crash Test Facility



Since 2015...From 1995



Propulsion system:

The propulsion system for Crash Test facilities is based in an AC Motor + Drive system with Direct Torque Control (DTC) technology.



Guidance System and Filming pits - New Nano Rail:

ADDITIUM has developed the narrowest rail and the smallest towing trolley in the market. The Nano Rail is the perfect solution to have an optimum view of the vehicle from underneath during the crash. ADDITIUM offers different configurations of filming pits (rectangular, octogonal...) for single or multiple track crash test facilities.

Movable or Fix Impact Block:

To increase the productivity and optimize the space of the facility, Additium includes in the offer a Movable Impact Block with up to 4 operational faces.

Control System and Instrumentation:

The facility is controlled by a Real Time hardware which provides a reliable and very low latency speed control loop. EtherCAT technology is adopted as a deterministic communication field bus, being able to precisely synchronize and activate different subsystems and auxiliary equipment along the facility.

Movable Deformable Barrier (MDB) and Auxiliary Barriers:

- ⦿ Movable Deformable Barriers: ECE R95, ECE R32, IIHS, AE-MDB, FMVSS 214 / 301, MPDB...
- ⦿ Auxiliary Barriers for: offset, rounded offset, pole, angle, small overlap, RCAR...

「ADDED value Passive Safety
Test Systems」

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