

# Nissan Advanced Crash Laboratory



Nissan Advanced Crash Laboratory in Oppama

In August 2005, the Nissan Advanced Crash Laboratory was completed in the Oppama area.

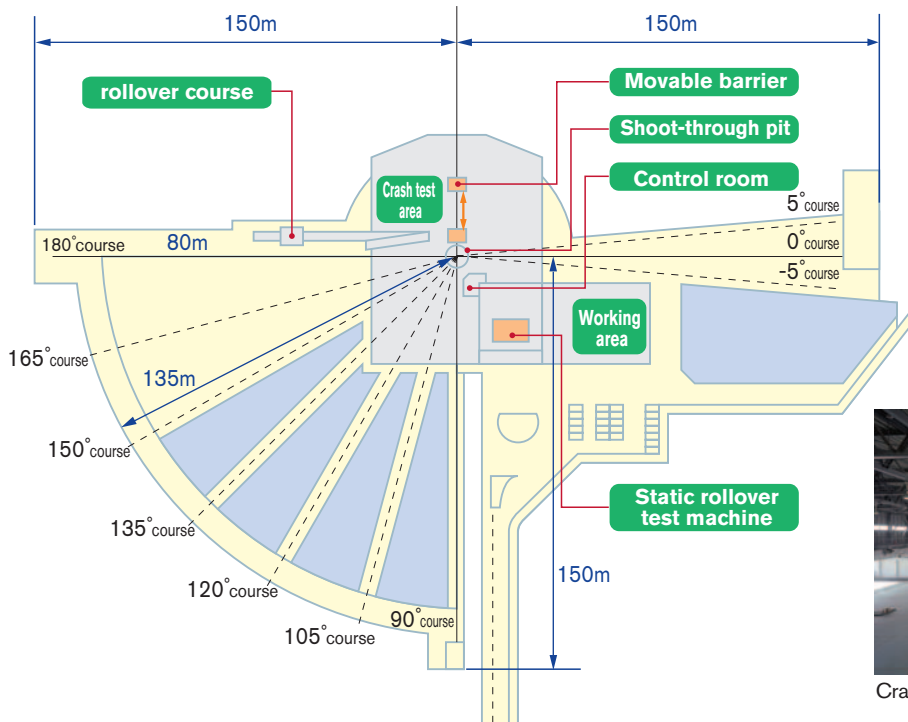
The Nissan Advanced Crash Laboratory is a cutting edge experimental facility introduced to support the Nissan's "Safety Shield"<sup>™</sup> concept. The key feature of this laboratory is its ability to recreate at close quarters various types of accidents that occur in the real world, based on analyses of numerous case studies of accidents.

Specifically car to car crashes can be recreated, as well as front and side impacts between vehicles travelling at up to 120km/h, and impacts can also be reproduced at angles from 185 degrees to 5 degrees, in 5 degree increments.

Four types of rollover tests can also be conducted. The all is helping to advance the development of vehicles that are capable of responding to a wide variety of accident conditions.

\* **SAFETY SHIELD** Nissan's concept of "the vehicle helps that protect people." The vehicle activates various barriers to help the driver, passengers and other road users avoid danger from normal driving conditions through post accident conditions.

## Schematic diagram of crash laboratory



Crash Test Area



## Testing capabilities

<b>Maximum collision speed (vehicle mass)</b>	When towing 2 vehicles: 120km/h (2,000kg) When towing 1 vehicle: 140km/h (3,000kg) 80km/h (9,000kg)
<b>Range of collision angles at vehicle to vehicle impact test</b>	5, 10, 15, 30, 45, 60, 75° 85~180° (5° intervals)
<b>Crashes at different collision speeds at vehicle to vehicle impact test</b>	1 : 1.5, 1 : 2, 1 : 3
<b>Barrier crash tests</b>	Movable barrier
<b>Rollover tests</b>	4 types: Trip-over ADAC corkscrew Ditch rollover FMVSS208 dolly rollover

**NISSAN MOTOR CO., LTD.**

17-1, Ginza 6-chome, Chuo-ku, Tokyo 104-8023, Japan

[www.nissan-global.com/EN/](http://www.nissan-global.com/EN/)