

Whole Vehicle Crash Testing

Millbrook conducts full-scale vehicle crash tests to legislative, consumer and customer in-house test requirements.

Full-scale crash laboratory, dummy certification laboratory, instrumentation and photographic laboratory, data-processing resources and experienced test/project engineers. Full-scale vehicle crash tests to legislative, consumer and customer in-house test requirements.

Crash laboratory:

- Fixed barrier frontal (0°, 30°, offset, under-ride) – with IIHS small offset test (LH/RH)
- Side and rear impacts
- Vehicle to pole (front, side)
- Moving vehicle to stationary vehicle
- Vehicle simulation to deer and elk strikes
- Vehicle simulation to roadside furniture
- Equipped to support high complexity tests
- eCall and ERA-GLONASS

Facility capability:

- Speed: 4km/h to 90km/h (2.5mph to 55mph)
- Accuracy: +/- 0.5km/h (+/- 0.3mph)
- Repeatability: +/- 0.3km/h (+/- 0.2mph)
- Track length: 220m covered with further 50m un-covered
- Five secure preparation bays

Tests conducted to:

- Current legislation, consumer and customer in-house test procedures
- Legislative for Type Approval, development and model correlation
- FMVSS, ECE, EEC and equivalents, TRIAS, ADR and others
- Insurance testing to Thatcham, Danner, AZT
- NCAP protocols
- USNCAP Protocols

Roll over tests include:

- FMVSS 208
- Ditch fall over
- Gravel/Soil trip
- Kerb trip
- Corkscrew



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