



TILT TABLE

FACILITY

The Nevada Automotive Test Center has a tilt table facility to augment its extensive vehicle dynamics evaluation assets and capabilities.

With a surface area of more than 8,000 square feet and a lifting capacity of approximately 350,000 pounds, the tilt table can be used to determine the static rollover threshold for many types and sizes of vehicles up to and including buses, tractor-trailer rigs, crash-fire-rescue apparatus and ambulances, and heavy equipment used in construction, material handling, mining and agriculture. The tilt table can also be used to approximate vertical center of gravity (CG), estimate lateral acceleration, and study vehicle stability characteristics. The same types of tests can be conducted on non-vehicular products such as shelters, skid-mounted assemblies, and containerized assemblies and systems.



Designed and built in-house by NATC engineering and fabrication personnel, the tilt table augments NATC's vehicle dynamics testing capabilities which include handling, roll stability quantification, end limit performance, side slope operation, active suspension development, and MIL-STD and FMVSS certifications.

NATC Tilt Table Specifications

Length:	89 feet
Width:	9 feet (expandable to 12 feet)
Maximum Tilt Angle:	60 degrees
Tilt Rate:	0.09 degree/second
Angle Accuracy:	± 0.1 degree
Net Lift Capacity:	350,000 pounds
Lifting Mechanism:	Worm gearbox and synchronized precision screw jacks



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