



Automotive Brake NVH Dynamometer

Model 3900

The Model 3900 NVH Dynamometer provides capability for noise and vibration testing of corner and axle type brake fixtures. This machine provides the ability to reproduce a wide range of brake noise issues.

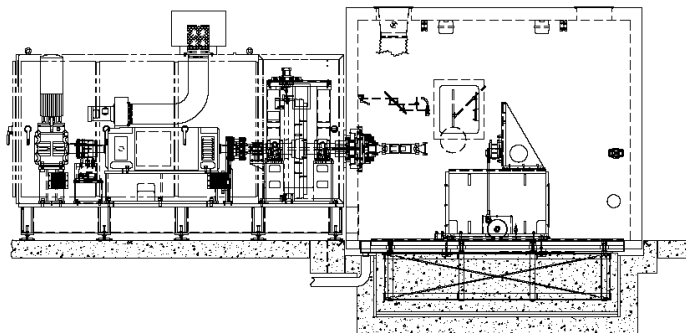
The system incorporates state-of-the-art technology for optimal correlation to actual operating conditions.

This dynamometer is specifically designed for brake noise testing. Special care is taken to provide the optimum test conditions. The brake test cell is fully separated from the dynamometer drive and support systems to isolate outside noise and vibration.



Features

- Double wall, walk-in, thermal and noise insulated brake enclosure
- Fully isolated brake enclosure
- Large double doors to accommodate full vehicle corner sections and axle fixtures
- Machine mounted electrical components save floor space and ease installation



The dynamometer controls are designed to enable close correlation with existing certification test protocols including SAE J2521. The advanced features of our ProLink controls offer operator dependent control or fully automatic unattended operation.

All primary operating functions are performed at the dynamometer station including selection of test parameters, control modes, display of pertinent data, monitoring of all test functions and execution of desired test sequences.

The double-wall enclosure provides a high transmission loss that allows for environmental testing and low frequency noise testing. The walk-in type will accommodate full vehicle corner sections and axle fixtures as well as conventional fixtures.

Disclaimer:

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The enclosure provides a free field sound environment that simulates the braking system during normal operation on the road. It also isolates brake noise emanating from the test, to prevent it from contaminating other tests or the general environment room exterior.

Additionally the enclosure is constructed to allow environmental testing using one of several optional environmental conditioning units. These units provide the test chamber with temperature ranges from -40° C to 60° C and humidities from 10 to 95% R.H.

The NVH module's base configuration provides six (6) channels for noise and vibration measurement. The NVH module runs under the ProLink software package to maximize the ease of use while providing a full set of noise and vibration analysis capabilities.



Typical Specifications	
Software Package	ProLink Microsoft® Windows® based
Vehicle Inertia Range	Light Passenger - Light Truck
Channels	Spare Channels Provided
Test Parts	Conventional, Knuckle, Corner, Axle Types
Installation	Sub-frame foundation
Tailstock	Angle plate and platform
Torque Measurement	In-Line Rotating

- ### Options
- Brake Application System Control
 - Environmental Conditioning
 - NVH Analyzer
 - DTV Measurement
 - Fluid Displacement
 - Water Spray Injection
 - Dust Spray Injection
 - AC Motor
 - Parking Brake
 - High Speed Operation
 - Video Capture and Playback
 - Road Wheel System
 - Thermal Imaging
 - Custom Configurations

Measurement & logging capabilities include, but not limited to:	
• <i>Brake Torque</i>	• <i>Brake Pressure</i>
• <i>Sound Level</i>	• <i>Acceleration</i>
• <i>Rotational & Linear Speeds</i>	• <i>Fluid Displacement</i>
• <i>Deceleration</i>	• <i>Cooling Air Flow</i>
• <i>Temperature</i>	• <i>Humidity</i>

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