

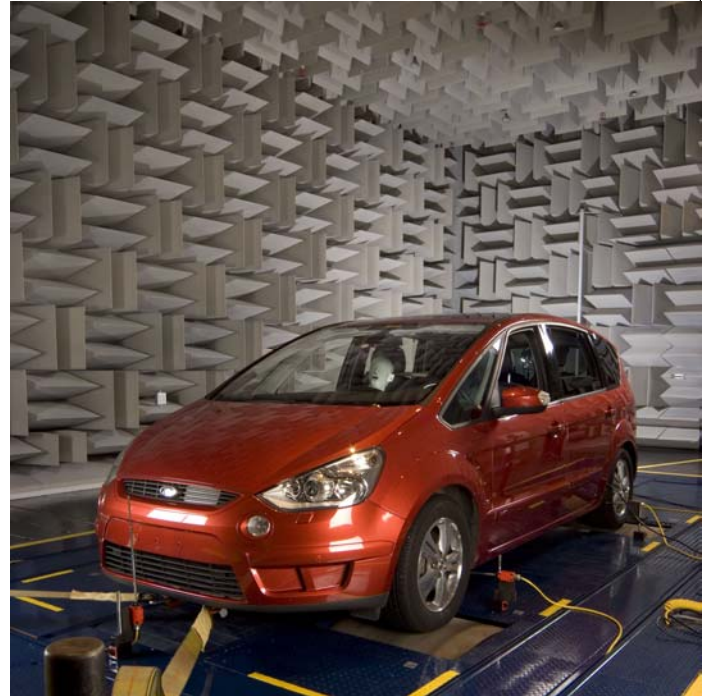


4-Roll NVH Chassis Dynamometer Model 4900

A four roll chassis dynamometer can be a useful tool in diagnosing and resolving vehicle NVH issues. The Model 4900 provides the capability to evaluate a wide range of vehicles and a full set of tools for control and measurement. Typical applications include powertrain, brake, tire, and interior trim evaluations. Teamed with the Brüel & Kjær LAN-XI analyzer the Model 4900 provides a state-of-the-art system for facilitating vehicle measurements and analysis.

With an automated system for wheelbase adjustment, the Model 4900 can accommodate vehicles from the smallest passenger car to the largest light truck. Typical configurations range from wheelbases of 2.16 to 4.45 m (85 to 175 inches). The result is a very versatile test apparatus with many applications.

A key criterion in the Model 4900 is keeping the background noise levels as low as possible to assure high quality noise and vibration measurements. To this end, the rolls are completely enclosed except for the running surface in the room above. The drive motors and other related power equipment are isolated in a separate room or placed in high transmission loss noise enclosures.



The result is a background level that is low enough to permit the most sensitive noise measurements.

Included with the Model 4900 is a complete control and measurement system. The core of this system is the ProLink™ software package that integrates all control, measurement, analysis, and reporting functions.

ProLink has been cited as one of the most versatile and easy to use test software packages in the industry. By integrating all the major control and data acquisition functions, ProLink makes automated test programs easy to program and deploy.

For more information or to work on a custom configuration for your needs, please contact our sales staff at +1 734-453-0800 or sales@linkeng.com

Typical Specifications	
Installation	Isolated sub frame foundation
Noise Acquisition	6 Channel system
Maximum Axle Load	5443 kg (12,000 lbs)
Minimum Axle Load	907 kg (2,000 lbs)
Roadwheel Diameter	1829 mm (72")
Roadwheel Width	711 mm (28")
Maximum Road Speed	225 kph (140 mph)
Drive Motor Size	224 kW (300 HP) per axle
Vehicle Wheelbase	2.16 to 4.45 m (85 to 175 in)
Motor Speed (Base/Top)	300 / 653 rpm

Disclaimer:

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Equipment pictured in this brochure may be shown with safety equipment removed or disabled for purposes of illustration. Equipment must never be operated with safety equipment removed or disabled. 290810

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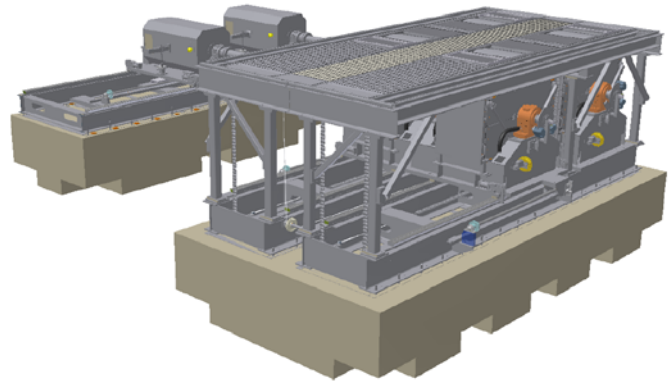
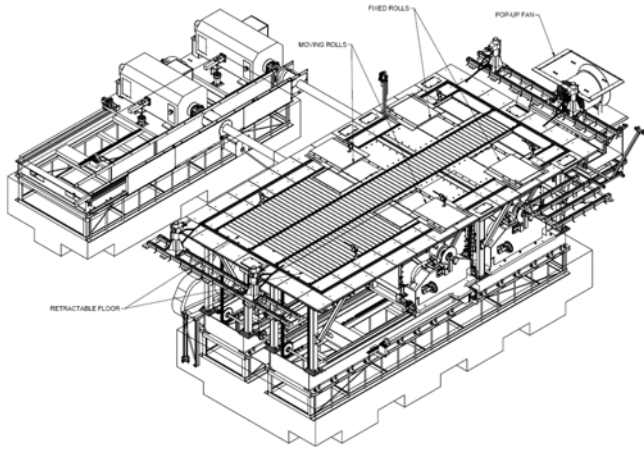
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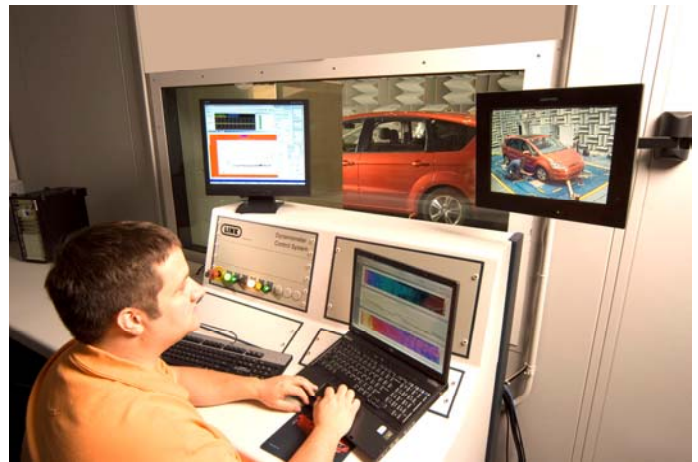


4-Roll NVH Chassis Dynamometer Model 4900



Noise measurements are typically made with the Brüel & Kjaer PULSE analyzer which is controlled by the ProLink package for maximum ease of use. ProLink systems can accommodate over 200 data acquisition channels. The collected data is easily interrogated by Excel macros, Matlab, and other Microsoft Windows tools. Developing and running a test with the Model 4900 is incredible easy and the processing of results can be fully automated with reports automatically delivered electronically.

To accommodate specific needs the Model 4900 can be customized in many ways. The size of rolls, their surface treatment, the allowable load range, and many other parameters can be defined by the customer. Speed ranges are available from 200 to 400 kph (125 to 250 mph).



Options

- Hemi-anechoic chamber
- Environmental conditioning system
- Individual drive motors for each road wheel
- Road surface castings on rolls
- Pop-up engine cooler
- Vehicle tie down and safety systems

Models have been developed for the evaluation of small passenger cars to aircraft testing – attesting to the wide range of options available. The Model 4900 can be ordered alone or as part of a complete noise and vibration evaluation package including the dynamometer, a hemi anechoic room and an environmental control system..

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