



Squeal Rig Dynamometer for NVH Testing

Model 3900SR

For those looking for a dynamometer optimized for brake NVH evaluation, the Model 3900 SR is ideal.

The Model 3900SR Squeal Rig NVH Dynamometer provides capability for noise and vibration testing of corner and axle type brake fixtures. This machine provides the ability to reproduce squeal noise. It can replicate the test conditions specified in all international brake NVH test standards. This includes all aspects of the SAE J2521 procedure.

The Squeal Rig uses a single, small, fixed-disc mounted on the back of the motor, and inertia simulation for testing. It can perform drag tests and full stops for vehicles ranging from the smallest passenger cars to transporters.

The double-wall enclosure provides a high transmission loss that allows for environmental testing and noise testing.

The walk-in type will accommodate full vehicle corner sections and axle fixtures as well as conventional fixtures.

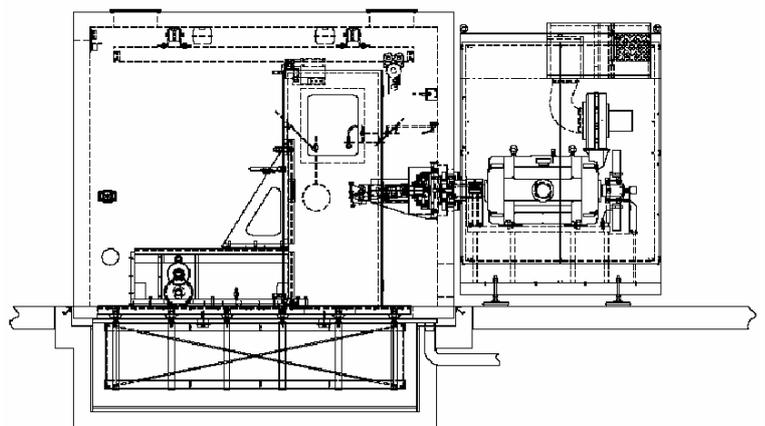
The enclosure provides a free field sound environment that simulates what is seen by the braking system during normal operation on the road. It also contains brake noise emanating from the test, to prevent it from contaminating other tests or the general environment room exterior.

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 -20°C to 50°C and humidities from 10 to 90% R.H.



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
- Overhead chamber crane system



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.

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The NVH module is based on the Brüel & Kjær Portable PULSE™ system. The base configuration for the system provides 6 channels for noise and vibration measurement.

The PULSE™ system runs under the ProLink™ software package to maximize the ease of use while providing a full set of noise and vibration analysis capabilities. The user does not have to be concerned with the details of the analyzer configuration. ProLink™ takes care of these operations.



Typical Specifications

Software Package	ProLink™ Microsoft® Windows® based
Channels	32 @ control console, 8 inside enclosure
Sample Rate	Conventional channels: 2500 samples/sec/channel
Test Parts	Conventional, Knuckle, Corner, Axle brake assemblies
Installation	Floor mount with subframe foundation for T-slot base
Main Drive Motor	185 kW AC
Max. Speed	650/1200 1/min
Pressure	206 bar
Brake Apply	Servo air over brake fluid: 517 bar/sec
Maximum Inertia	120 kgm ²
Temperature	4 rotating (slip ring) and 4 non-rotating
Fixture Mounting	Platform with removable Angle Plate
Torque	4100 Nm at 500 1/min
NVH Module	6 channels with 52,000 samples/sec/channel

Options

- Environmental Conditioning
- DTV Measurement
- Fluid Displacement
- Video Capture and Playback
- Thermal Imaging Camera
- Custom Configurations
- Passive Road Wheel
- Water Spray Injection

For more information on the Model 3900SR and how it can be configured to meet your requirements contact Link Europe at +49 6431 9088810 or linkeuropesales@linkeng.com

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