

NVH Chassis Dynamometer for Vehicle Testing

This chassis dynamometer features a 48-inch (1219.2mm) or 72-inch (1828.8mm) roller and AC motor, suitable for light vehicles or heavy commercial vehicles. It delivers quality simulation with high precision, repeatability, and high dynamic stability.



ADDITIONAL IMAGES



Product Overview

Advanced NVH Chassis Dynamometer

This high-precision NVH Chassis Dynamometer is engineered for comprehensive vehicle testing, offering exceptional simulation of road conditions with high repeatability. Designed for Noise, Vibration, and Harshness analysis, it features an intelligent three-ring bearing design and high dynamic stability to meet or exceed EPA requirements. The system supports seamless integration with common emission test interfaces and automation software, ensuring a future-proof solution for automotive research and development.

Key Features

High Precision, EPA Compliant, Intelligent Bearing Design, Automation Software, Easy Upgrade, Low Noise

Performance Metrics

Core Performance

0.1 % F.S

Inertia Simulation Accuracy

200 km/h

Maximum Speed

35 dBA

Noise Level (at 1m)

Model Comparison

Technical Specifications by Model

Roller Size	Application	Motor Power	Max Speed	Inertia Simulation Range
48 Inch (1219.2mm)	Light Vehicle	150kw*2 / 220kw*2 / 300kw*2	e 200m/h	454kg - 5000kg
72 Inch (1828.8mm)	Heavy Commercial	455kw*2 / 560kw*2 / 650kw*2	e 120m/h	3500kg - 65000kg
75 Inch (1905mm)	Heavy Commercial (4WD)	150kw*4 / 220kw*4 / 300kw*4	e 200m/h	800kg - 9000kg (4WD)

Measurement Accuracy

Measurement Precision

- Traction measurement accuracy: $\pm 0.1\%$ F.S
- Traction control accuracy: $\pm 0.2\%$ F.S
- Speed measurement accuracy: $\pm 0.02\text{km/h}$
- Distance measurement accuracy: $\pm 0.1\text{m}/1000\text{m}$
- Time measurement accuracy: $\pm 1\text{ms}$ to 5ms
- Acceleration measurement accuracy: $\pm 0.005\text{m/s}^2$

Mechanical Design

Surface Treatment

Metal Spraying • Chrome Steel Flame Thermal Spraying

Bearing Structure

Three ring bearing

Traction Overload Capacity

130% to 150% (60S)