



TOP: MUSTANG'S HEADQUARTERS  
RIGHT: PRODUCTION LINE



## NOISE, VIBRATION AND HARSHNESS DYNAMOMETERS

Government Mandates, safety standards and the ever-present push for increased performance and productivity - all are challenges facing automotive manufacturers, vehicle repair shops, and fleet operators. Mustang Dynamometer supplies the industry's most advanced high performance test systems and you reap the benefits.

As a global leader in the design, manufacturing, and integration of dynamometer products, Mustang Dynamometer has delivered over 11,000 test systems over the last several years to automotive manufacturers, OEMs, tier one suppliers, fleet operators, R&D houses, race teams, centralized and decentralized emissions and safety inspection programs and many other leading companies around the world.

Mustang manufactures a complete line of products including chassis dynamometers, engine dynamometers, (I/M) inspection/maintenance equipment, exhaust gas analyzers, vehicle safety equipment, end-of-line test systems and custom engineered test systems.



**MUSTANG DYNAMOMETER**

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# DYNAMOMETER NOISE REDUCTION FEATURES

*Mustang's Patented Virtual Inertia!*

Large Roll/AC/NVH Dyno 

Noise Vibration and Harshness (NVH) applications have long been a specialty for Mustang Dynamometer's team of engineers. Whether your application involves interior or exterior NVH, Mustang Dynamometer has an economic equipment solution to meet your needs. NVH test stands available include roller test beds with diameters from 30" to 72" and direct HUB connection style test beds for applications that require elimination of tire generated NVH. Types of absorbers include AC, water cooled Eddy Current and air cooled Eddy Current. 4 x 2, 4 x 4 as well multiple axle configurations are available. Mustang has provided systems for small applications such as ATV's and Snowmobiles - but has also engineered systems for class 8 trucks, military vehicles and 8x8 trucks.



## ROLL DESIGN

- Roll surface finish conducive to noise abatement
- Inner Roll Coating of a water based visco-elastic compound that reduces the structure-borne vibration.
- Roll end cap flush with roll face

## VIBRATION ISOLATION

- Chassis dynamometer floor plating isolated with a elastomeric isolator which isolates noise, shock and hi-frequency vibration
- Pit walls insulated with sound absorbing sheeting
- Chassis dynamometer frame isolated from pit with vibration isolation tri-wedge machinery mount

## BEARINGS

- Hydrostatic bearings and special lube system

## SOUND BARRIERS

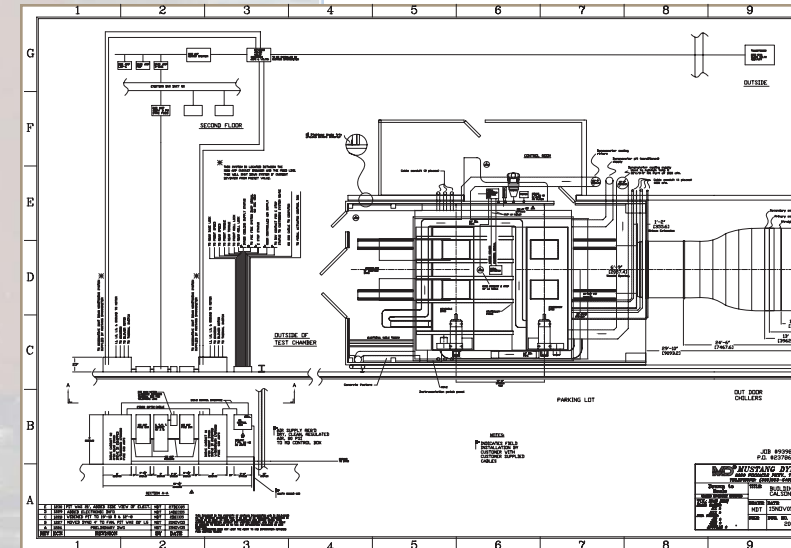
- Sound barrier encasing motor
- Sound barrier encasing rolls
- Motor drives and fan system in isolated location

Sound level of 48" roll NVH dynamometer is 55dB or lower at 60 mph\*  
Sound level of 72" roll NVH dynamometer is 50dB or lower at 60 mph\*

\* All specifications are based upon cell design and system design

# FACILITY LAYOUT AND DESIGN

## CONCEPT TO COMPLETION



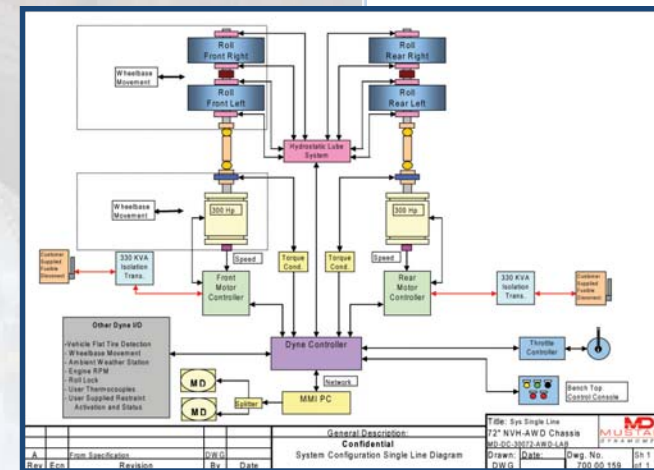
GALSONICS CONCEPTUAL AND BLACHFORD FINISHED PROJECT



## PROVEN EXPERIENCE

Mustang Dynamometer employs a full staff of technical engineers that can help bring your testing requirements to life. Our engineers have designed and Mustang has performed installs of specialized dynamometer systems for hundreds of elite companies world-wide.

Let us demonstrate our proven experience and excellence to you. Call a Mustang Dynamometer engineer today at 1.888.468.7826 to begin fulfilling your testing requirements.



BELOW: TESTING CHAMBERS FOR NISSAN, BLACHFORD, POLARIS AND CHRYSLER

