

PROJECT SPOTLIGHT

Heavy-Duty Transmission Dynamometer



The Utah National Guard required a specialized solution to support the repair and maintenance of its fleet of heavy-duty military vehicles. These vehicles demand reliable testing of their transmissions to ensure operational readiness and safety in demanding environments.

CHALLENGE:

Existing commercial testing equipment could not meet the unique performance specifications, durability, and testing versatility required by the military-grade transmissions used in their fleet. The solution needed to accommodate various transmission types and provide accurate, repeatable results under heavy load conditions.

SNAPSHOT

Project: Custom Heavy-Duty
Transmission Dynamometer
Customer: Utah National Guard
Industry: Repair and Maintenance of
Heavy-Duty Military/Defense
Vehicles
Where: Salt Lake City, Utah

SOLUTION

Mustang Advanced Engineering designed and delivered a custom-built heavy-duty transmission dynamometer tailored specifically to the Utah National Guard's needs. This high-performance test stand allows technicians to simulate real-world operating conditions, evaluate transmission health, and perform diagnostics before reinstallation.

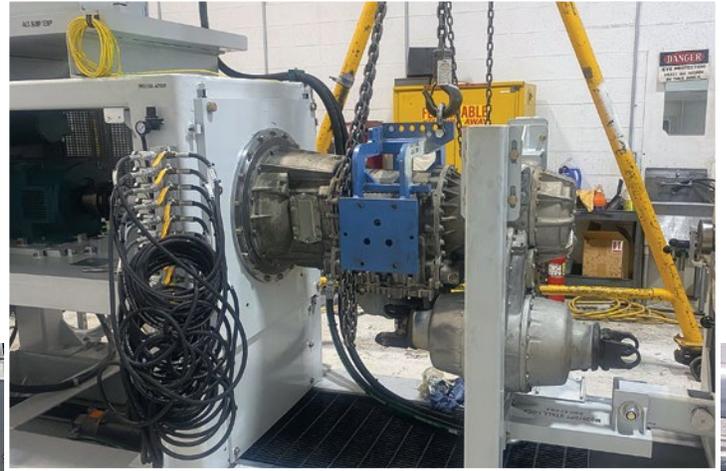
FEATURES

- High-torque capacity for heavy-duty transmission systems
- Advanced data acquisition and diagnostics
- Compatibility with multiple transmission types
- Rugged, military-grade construction
- User-friendly software interface for efficient testing

RESULTS

With the implementation of Mustang's custom dynamometer, the Utah National Guard gained:

- Improved maintenance efficiency
- Reduced vehicle downtime
- Enhanced reliability of mission-critical equipment
- A scalable solution that can evolve with their fleet



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About MAE

Mustang Advanced Engineering is a leading supplier of advanced, custom engineered testing and measurement systems. Located in Twinsburg, OH, MAE delivers world-class testing solutions, custom design support, and technical assistance, backed by a dedicated factory service team, making MAE a trusted source of expertise for the global industrial market. Visit MustangAE.com for more information. Follow them on Facebook, X, LinkedIn, and Instagram.

