



## TRACK TESTING SERVICES

GS Engineering has developed a novel way to field test track components under SBIR A08-131. The Track Testing Trailer offers capabilities never before offered in a sub scale track testing device.

- **Versatile:** Test roadwheels, roadwheel tires, groundpads, backing rubber, wear rings, and other track components.
- **Adaptable:** Easily switch between M1, Bradley, Paladin or other vehicle track systems.
- **Configurable:** Fully adjustable wheel loading, track tension, and sprocket torque.



ABRAMS - BRADLEY - PALADIN



The GS Engineering Track Testing Trailer bridges the gap between lab-based, component level testing and vehicle field testing.

- **Low Cost:** Perform field testing at a fraction of the cost of vehicle-based testing.
- **Promote Innovation:** Low cost testing allows rapid engineering evaluation of innovative track systems.
- **Speed Development:** For new vehicles, evaluate track systems before a vehicle is even produced. For existing vehicles, eliminate wait for a vehicle dedicated to testing.

# COMPLETE DATA ACQUISITION



## COMPREHENSIVE TESTING SERVICES



## TESTING CAPABILITIES

### Trailer Specifications:

- Tire loads up to 15,000 lbs
- 45 mph operation
- Track tension adjustable up to 14,000 lbf
- Peak sprocket torque adjustable to over 2,000 ft-lbf
- Configurable ballast
- Data acquisition ready
- Quickly switch tow vehicles based on performance needs

### Tests Main Rubber Failure Modes:

- Cutting & chunking from debris
- Heat generation
- Abrasion from road surface

### Central Control Panel:

- Left & right track tension
- Left & right sprocket torque
- Sprocket brake cooling
- Variable suspension settings

## CONTACT US



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