



Anthropomorphic Test Device Certification Lab

Ground Vehicle Survivability & Protection (GVSP) is part of The U. S. Army Ground Vehicle Systems Center (GVSC). GVSP is responsible for ground vehicle ballistic protection, blast mitigating technologies, and hit and kill avoidance initiatives for the Department of Defense. GVSP uses its unique in-house laboratories and subject matter expertise to reinforce its reputation as the Army's technical authority on survivability in the following research areas:

- Ballistics and blast testing
- Armor component fabrication and characterization
- Dynamic impact/impulse testing
- Vehicle crash and rollover assessment
- Active protection testing
- Laser and fire protection studies

General Overview

- The Occupant Protection Laboratory (OPL) is a full-service test facility with the resources, capabilities, equipment, and partnerships needed to perform dynamic impact/impulse testing on components, subsystems, or systems. Researchers use the OPL to perform unique “out of the box” impact testing as well as standardized testing on occupant protection and energy mitigation technologies.
- The OPL houses six distinct labs. GVSP continues to increase the OPL's in-house testing capabilities, ISO certifications, and offsite testing support with the addition of new test equipment and resources to support physical testing efforts.



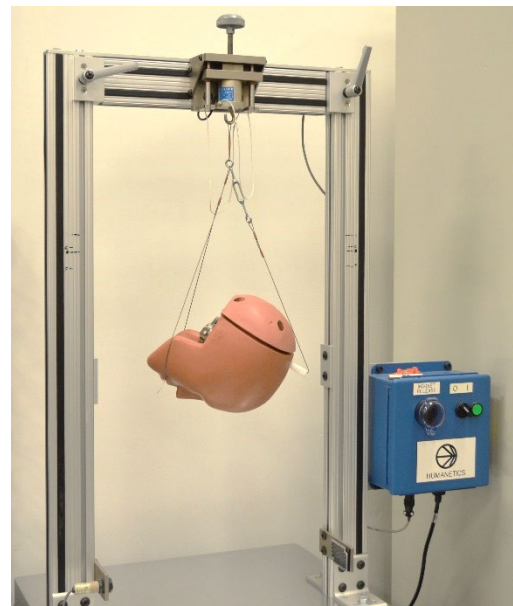
Thorax Impact Test Device

- The OPL's Anthropomorphic Test Device (ATD) Certification Lab enables GVSC to certify ATDs in-house. This capability reduces the time and cost of certifying ATDs and reduces downtime between testing. ATDs can be certified frequently resulting in increased confidence in test measurements and ATDs availability for testing.
- This certification service is available to customers.

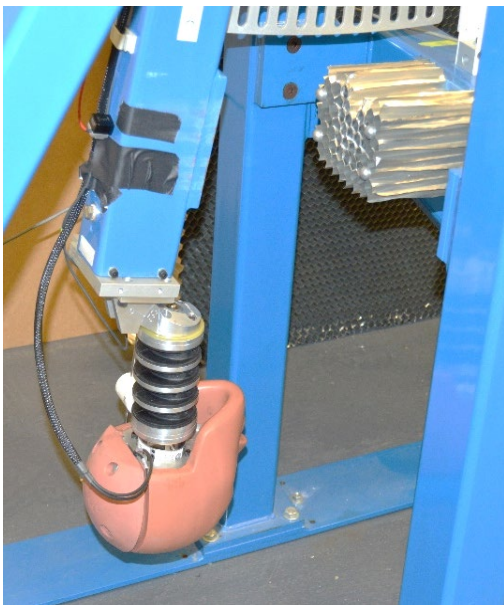
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Key Capabilities

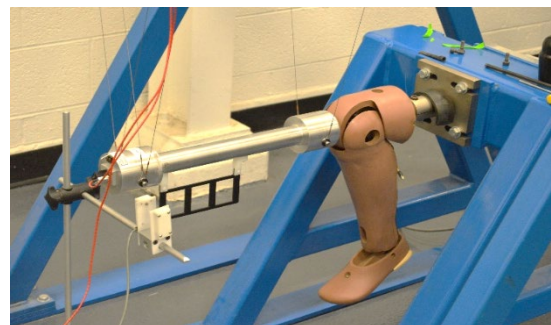
- Test fixtures to certify each body region of an ATD (head, neck, knee, thorax, foot)
- Compliant with CFR 49, Part 572 ATD
- Instrumentation conforms to SAE J211 standards
- 5th, 50th, 95th Hybrid III ATD and WIAMan (Warrior Injury Assessment Manikin)



Head Drop Test Device



Neck Pendulum Test Device



Knee Impact Test Device

FOR FURTHER INFORMATION:

U.S. ARMY COMBAT CAPABILITIES DEVELOPMENT
COMMAND — GROUND VEHICLE SYSTEMS CENTER:
<http://www.usarmygpsc.com/>

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