The Crash Dynamics Lab provides research, testing and certification for transportation seats and restraints systems under dynamic impact conditions.

**CAPABILITIES**
- FMVSS 208
- FMVSS 213
- CMVSS 208
- ECE R94
- Euro NCAP
- IIHS
- OSA

**CODE OF FEDERAL REGULATIONS**
- Title 14 Part 23.562
- Title 14 Part 25.562
- Title 14 Part 27.562
- Title 14 Part 29.562

**ANTHROPOMORPHIC TEST DUMMY CALIBRATION**
- On-site calibration capability for Hybrid II and Hybrid III ATDs
- On-site calibration for accelerometers

**PROJECTS**
- Certification by Analysis - Seat Modeling Techniques
- Evaluation HIII 95th & 5th
- Percentile ATD for Automotive Applications
- Certification by Analysis - Sled Testing for ATD Validation
- Mass Transit Bus Crashworthiness I and II

**EQUIPMENT**
- **MTS Model 888.20 servo-hydraulic crash simulator**
  - Nominal force: 2,000 kN (450 kips)
  - Max velocity w/ 1,500 kg: 81 km/h (50 mph)
  - Dynamic response: >150 Hz
  - Acceleration w/ 1,500 kg: 65g
  - Acceleration w/ 1,000 kg: 75g

**PHOTOMETRICS**
- AOS Technologies S-VIT Imagers
- High-resolution color (800x600) 1,000 frames per second (10,000 fps at reduced resolution)
- Immediate availability of videos in .avi format

**CLIENTS**
- Aircraft, Automotive and Military Vehicle
- Seat Manufacturers
- Internally Funded Research Centers
- Crash Research Centers

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- Aircraft occupant protection
- Implementation of child restraints in aerospace applications
- Mass transit occupant safety
- Aircraft component certification