

# CRASH DYNAMICS LABORATORY



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

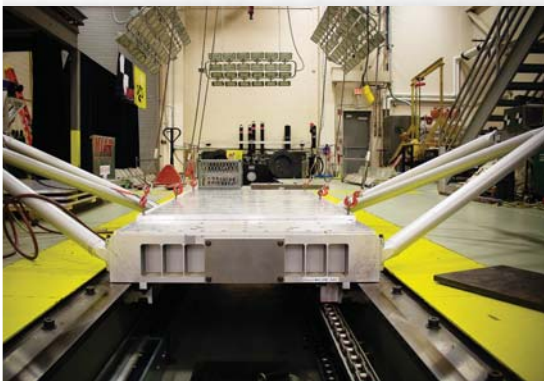
**Representative Clients:** Aircraft, automotive and military vehicle seat manufacturers, internally funded research, crash research centers

#### **Facilities & Equipment:**

- MTS crash simulator model 888.20 with computer controlled, servo-hydraulic accelerator sled
- 4 SpeedCAM VISARIO high resolution color cameras (1000 frames/sec, on-board, off-board)
- 2 Quantum Composer Model 9730 airbag current pulse generators (8 channels total)
- DSP Technology VX2850B (transient and signal acquisition/processing system), 96 channels
- DSP Technology IMPAX-SD© Version 6.0 data collection control and processing software
- DIAdem Version 11 data processing and reporting software

#### **Anthropomorphic Test Dummies:**

- 50th percentile males; 49 CFR 572, H-III50M (model 78051-218-R99) 49 CFR 572 and FAA-H-III50M (model FAA-H3-M001)
- 95th percentile male, H-III95M (model 880995-000)
- EuroSID-2 (model 455-0000)
- CRABI 12-month child, 49 CFR 572
- HIII 3-year-old, 6-year-old and 5th percentile female, 49 CFR 572



#### **Representative Projects:**

- Certification by Analysis - Seat Modeling Techniques
- Evaluation HIII 59th & 5th Percentile ATD for Automotive Applications
- Certification by Analysis - Sled Testing for ATD Validation
- Mass Transit Bus Crashworthiness I and II



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