

## SPECIALIZED CRASH TEST DUMMIES

Dynamic Research, Inc. (DRI) develops, manufactures, maintains, and provides rental of specialized crash test dummies for various applications, including injury evaluation and protection system feasibility research. The DRI crash dummies are unique among commercially available motor vehicle crash test dummies in that all data acquisition components, including sensors and power sources, are internal. This is especially important in applications where instrument cables could interfere with or distort dummy motions (as in, for example, unbelted car occupants, pedestrians, motorcyclists, all terrain vehicles, etc). In this regard, it is well suited to the study of multiple impacts.



### Specifications

- Internal data acquisition
- 48 channels (up to 64 channels can be manufactured)
- 10,000 samples per second per channel
- Up to 60 standardized internal sensors to select from
- Meets SAE J211 and ISO 13232-4
- Internal data storage
- Internal power sources for all sensors and data storage
- Data download to PC, either ISO 13499 data formatting software and/or ISO 13232 post-processing software for standardized injury probability analysis

### Dummy configurations

- Hybrid III 50th percentile male, sitting or sit/stand pelvis
- ISO MATD (Motorcycle Anthropometric Test Device) 50th percentile male, including
  - Frangible injury indicating: femurs, tibias, abdominal insert, and knee ligaments
  - Gripping hands
  - 3 axis neck with lateral/fore-aft biofidelity
  - 28 ISO standardized biofidelity enhancements
  - Certified and calibrated to ISO 13232 and US CFR 49 CFR Part 572, subpart E

DRI specializes in applied research, development, and consulting in the areas of vehicle dynamics and control, man-machine systems, human factors, biomechanics and structural mechanics. For further information please contact us at 310-212-5211, visit our web site at [www.dynres.com](http://www.dynres.com), or email us at [info@dynres.com](mailto:info@dynres.com).