

Military vehicles are exposed to numerous threats in combat and non-combat operations including landmines, IEDs, mortars, collisions, and rollovers. While protection from blast effects and fragmentation are of primary importance, a large number of occupant compartment injuries highlight the need for better occupant protection.

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Vehicle occupant protection systems in civilian and military environments can benefit from Biokinetics' core competency in injury prevention through the testing and evaluation of existing systems or the development and evaluation of new technologies.

Biokinetics has experience with many passive and active occupant restraint technologies such as belts, airbags, inertial reels, pre-tensioners, compartment padding and their interactions with the occupants. Assessing the performance of these safety technologies during proper and improper, or perhaps unintended use, has been studied extensively by Biokinetics on behalf of government agencies.

Biokinetics is well-versed in injury risk assessment functions and criteria, the use, maintenance, calibration and implementation of crash test dummies or mannequins, interpretation and implementation of federal rules and regulations surrounding vehicle occupant safety, data reduction and analysis for both the civilian and military fields. Our in-house testing facilities along with available head, neck, torso, abdominal, extremity and whole body surrogates allow us to simulate many blunt trauma events, enhancing our analysis capabilities

Challenge Biokinetics to with your occupant protection and crashworthiness needs.