

BIOKINETICS AND ASSOCIATES LIMITED

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Keywords: Personal protective equipment, crowd control helmets, riot protective equipment, riot helmets and faceshields, protective equipment design, protective equipment testing, field trials, prototype fabrication.

History and Capability: Biokinetics and Associates Ltd. is a bio-engineering consulting company located in Ottawa, Canada. Established in 1975 Biokinetics and Associates Ltd. has extensive experience in the design, development and testing of personal protective systems from restraint systems to new anthropometric test dummies. With established research capabilities in all fields of human safety, Biokinetics and Associates have recently moved into a new facility where the work of the group has expanded to include the small scale production of new protective police riot headgear (developed at Biokinetics).

Experience: Biokinetics has developed specifications for protective equipment. Consultation to manufacturers and government agencies has resulted in the design of a range of safety equipment. Crash test studies have been conducted to examine the effectiveness of current protective systems and to identify ways of improving protection in accidents. Anthropometric test devices have been redesigned to provide more realistic monitoring techniques for injuries to selected body regions.

Biokinetics has evaluated and utilized devices for the spatial quantification of anthropometric and physical landmarks. Biokinetics has conducted field trials of protective equipment. Biokinetics has utilized MADYMO and other simulation programs to study occupant dynamics in crash situations.

Equipment: Biokinetics has in-house test facilities to evaluate helmet performance and establish compliance to national and international standards. Dummy components and human subjects can be evaluated. Access to outside laboratories supports such work as wind tunnel testing, ballistic testing, car crash testing, and sled tests.

Average Work Force: 15

Joint Ventures: Biokinetics has joined universities, hospitals, government test laboratories and also engineering firms in North America and Europe in a variety of joint research design and development projects.

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