



Biokinetics' dynamic helmet retention tester (HRT-D) incorporates two test methods into one apparatus. The first test evaluates the strength of a helmet's retention system under a dynamic load generated by a guided free falling mass dropped onto a catch plate that is connected to a helmet's chin strap. A linear potentiometer records the stretch of the strap during and after the loading event. The second test evaluates a helmet's stability by applying a dynamic load to the front or rear edges of a helmet that attempts to rotate the helmet off a test headform. Both methods are in compliance with most helmet performance test standards. Helmet testing and data reporting is greatly facilitated with use of the Helmet Test Software (HTS) suite.

[Download PDF](#)