The WRSS is a shooting fixture system for shoulder fired firearms that provides a means of collecting test data without the errors introduced by the human shooter. Incremental design improvements in recoil reduction and weapon controllability which are imperceptible to the human shooter can now be measured and evaluated. The WRSS system collects data on recoil force, determines acceleration levels at key points on the firearm, and gives the time profile for weapon pitch and yaw during firing. The shooting fixture models the 50th percentile soldier by matching the first three modes of vibration realized during firing. A detachable mass is provided to account for the mode change frequency introduced by body armor. The WRSS was developed under contract from the U.S. Army PM Soldier Weapons at Picatinny Arsenal and is the first new development in recoil evaluation since the ballistic pendulum was invented in 1742.

The WRSS accepts most shoulder fired weapons from submachine guns and shotguns to .50 caliber rifles. Evaluates single shot and automatic fire. System comes complete with MEMS accelerometers, pitch and yaw rotary encoders, force transducer, software, and set-up/installation at customer facility. P/N: 32000

WRSS

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