



SOFT CATCH GUN FACILITY (SCAT)

LABORATORY INFORMATION FACT SHEET

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The Soft Catch (SCat) Gun Facility validates structural models and designs without the logistics and cost of extensive live fire testing.

TECHNOLOGY/FACILITY DESCRIPTION:

Current and future weapon requirements of increased range, high precision, high rates-of-fire and sophisticated electronics (smart rounds), have a direct impact on ammunition development and evaluation. The SCat Gun is used to simulate the severe launch conditions unique to artillery, mortar

and tank gun weapon systems for the testing of developmental ammunition and their components. The SCat Gun system subjects these developmental designs to actual launch conditions (i.e. high accelerations and spin) and then provides soft recovery for physical inspection, bench tests and evaluation critical to the designer/engineer. Telemetry units can be fired, recovered and evaluated ensuring data is recorded, stored and/or transmitted back to the ground station during testing. Through these unique evaluation programs, every round fired by the SCat Gun produces valid data, thereby resulting in significant cost savings.



EQUIPMENT AND EXPERTISE AVAILABLE:

- High-G Testing of Guidance Navigation and Control Hardware
- GPS Receivers
- Batteries
- Inertial Measurement Units
- Support Structures
- Supports spinning and non-spinning projectiles
- Data collection for modeling and verification
- Multiple cargo options