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### High-G Shock Testing Services



Our shock testing facility allows us to test electronics and projectile structural components up to 60,000 Gs. Specially designed test projectile carriers can handle payloads up to 4.00" in diameter. A wide range of pulse shaping is possible. The air cannon is fully instrumented with pressure gages and laser velocity measuring equipment. On-Board accelerometers accurately record 3-axis g-loads at a rate of thousands of samples per second. We can conduct as many as 8 shots per day. Pricing is on a per shot basis. See our website for pricing details.

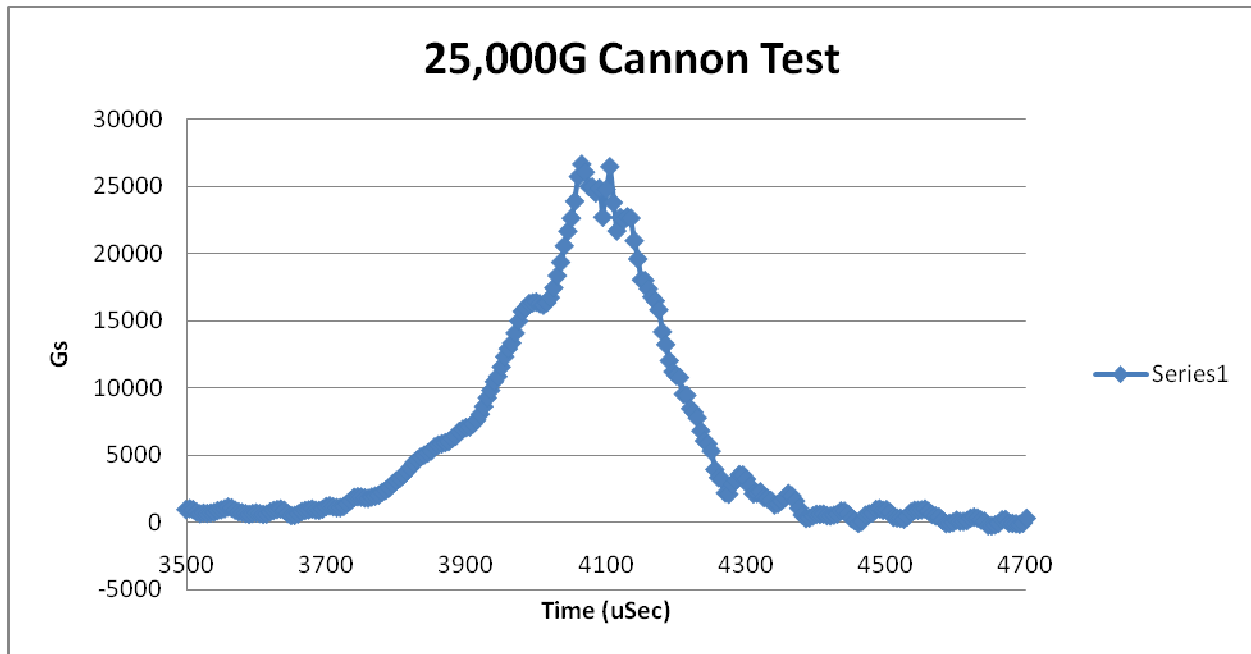
Payloads must be completely contained in a canister provided to Syntronics. Syntronics will manufacture carrier projectiles and will mount test canisters into the carrier for testing.



The photograph on the left shows a test article contained within the green, light-weight carrier body. Syntronics can quickly adapt test article housings to accommodate most payloads.

Data analysis takes a matter of minutes, so it is possible to conduct a test shot, analyze the data, then make subsequent test shots based upon those results. We are set up to be fast, inexpensive, and flexible.

The curve below shows a sample of the acceleration vs. time data for a selected 25 KG shot. Higher energy shots with longer duration wave forms are possible.



### Specifications

Standard Data:	Pressure	+/- 0.5 psi
	Velocity	+/- 2 m/s
	Acceleration	+/- 50 Gs with 20 KG accelerometers +/- 200 Gs with 60 KG accelerometers
Sampling Rate:	50,000 samples per second	
Maximum Acceleration:	60,000 Gs	