Test Fire

American Ordnance LLC, operator of the Iowa Army Ammunition Plant has a unique test fire range. This test site closely supports the development and production of ammunition by quickly providing test results, as well as helping to ensure the production of quality munitions that offer exemplary performance.

This facility is equipped with both vertical and horizontal test stands, flash x-ray, Vision Research Phantom 12 high speed digital video and a Cordin camera (model 126). Examples of products tested on the site include the I-TOW, TOW2, Javelin, Hellfire, Copperhead, Viper, SFW, Side-winder, Tank Warheads, TOW Tip Charge, various EFPs, 40 lb. cratering charge, and numerous developmental items up to 40 lbs. explosive weight.

TEST FIRE CAPABILITIES

- Flash x-ray of shaped charge jets/high speed events (300 and 450 Kev systems)
- Static firing of large caliber warheads into armor targets and NATO heavy triple target (with or without spin)
- Video recording of all explosive event types
- Complete test area with offices, above-ground and earth-covered storage magazines, below-ground test bunkers, and vehicle and personnel protection bunkers
- Horizontal range for up to 500-foot testing
- Remote spin, arm, and emplacement tests
- Spin testing (120mm warheads)
- Spaced armor and arena testing
- Velocity screens and radar to monitor slug velocity
- Radar velocity tracking; x-ray and fault analysis
- Static pressure testing

Cordin Camera
Streak/framing camera with a framing rate in excess of 2.5 million frames per second.

Vertical Test Fire Stand

Horizontal Test Fire Range

American Ordnance
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Business Development | 800.488.9719
www.aollc.biz