Directed Energy

Innovative systems for an evolving threat

Today’s warfighter faces unique challenges from the proliferation of hostile unmanned aerial systems (UAS) and rockets, artillery, and mortars (RAM). Dynetics directed energy weapon systems provide a safe and simple system to address these high-volume, low-cost threats.

Operational advantages
- Broad range, deep magazine
- Lightweight hardware
- Fast and accurate
- Inexpensive cost per shot
- Limited collateral damage

Capabilities
Our directed energy solutions ensure mission success in the most challenging applications, from remote test ranges to the field of battle. Our highly reliable subsystems are built to withstand the rugged operation conditions and ensure the safety of our warfighters and control (GNC), and sensor selection.

- Advanced radar development. We bring more than 45 years of radar expertise to acquire, track, and destroy targets—and ensure they have been neutralized.
- System integration and assembly. We provide systems engineering; assembly, integration, and test; operations; and program management support across all system elements.

Dynetics is drawing on the experience of systems engineering, manufacturing, test, and vehicle modifications for integration on the Family of Medium Tactical Vehicles (FMTV).

Dynetics is the prime contractor for the U.S. Army Rapid Capabilities and Critical Technologies Office Indirect Fire Protection Capability-High Energy Laser, providing a new 300 kW-class laser weapon system.

- Dynetics, the prime contractor, will provide cost, schedule and performance leadership. The final weapon assembly will take place at the Dynetics Huntsville, Alabama, location. The final system will be delivered to the platoon by 2024.
- Lockheed Martin will provide the laser weapon subsystem, optimizing the performance of the laser module, power and cooling systems, and operator interfaces.
- MZA will design and deliver an integrated beam control system to ensure the HEL beam is delivered in a lethal manner on the threat.

Product Highlight: Prime Power Generation
Dynetics leverages this innovative power solution to ensure mission success. It utilizes a mild hybrid capability to decrease deployable footprint and replace towed generators, allowing the vehicle to remain mobile if the attachment fails. This solution can also be easily disengaged for rapid exit.
Innovating Unique Capabilities Since 1974

At Dynetics, we help customers accomplish complex, high-value missions. By combining the capabilities of a large business with the responsiveness of a small business, Dynetics put in place extensive R&D capabilities and deep technical expertise in systems engineering, systems analysis, modeling and simulation, cyber, software development, rapid prototyping, test and evaluation, manufacturing, integration, and operations. Using our considerable engineering, scientific, and other technical resources, we help customers identify, analyze, and respond to complex threats to their missions.

FOR MORE INFORMATION

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