



Kinetic Protection, LLC

Force Protection Capability Overview

2015



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Kinetic Protection, LLC

Overview



- **Privately Held Small Business Joint Venture (SDVOSB)**
 - **Formed between Kinetic Resolve, Inc. (Stillwater, MN) and The protective Group, Inc. (Miami Lakes, FL)**
 - **Current: ~60 Employees**
 - **Focus on Anti-Terror/Force Protection**
 - **R&D, Operational Analysis, Requirements Development**
 - **Full life-cycle services (engineering, manufacturing, logistics)**
 - **Testing and validation (in-house range and radiography)**
 - **Specialize in limited production runs, through medium-sized programs.**
 - **Funding wizards – if you have a need, we can help you fund it!**

TPG Overview

**KINETIC RESOLVE**

➤ **Privately Held Small Business**

- Current: ≈60 Employees

➤ **Two (2) Locations:**

- Miami Lakes, FL 33014
- Huntsville, AL 35758

➤ **Lightweight Survivability Solutions Optimized for:**

- Increased mission endurance
- Increased mission range
- Occupant and Critical Component Protection
- Price and delivery schedule



Miami Lakes, FL



Huntsville, AL

Current Initiatives



Critical Component Protection System (CCPS)



Multiple Impact Transparent Armor System (MITAS)



Enhanced Ballistic Protection System (EBPS)



Advanced Ballistic Shielding for Crew-Served Weapon Stations



Growth through Innovation



KINETIC RESOLVE



First ceramic body armor (Aviator plates) fielded

Lightweight ceramic armor fielded for combat helicopters

Developed and fielded Ranger Body Armor

Develop and fielded lightweight armor to SOAR, Army and Navy for H-60s, H-47s and H-53s.

Over 190,000 ESAPI delivered to OIF/OEF

Transparent Armor fielded to Army and SOAR

Lightweight armor fielded to CH-47s and UH-60s



1960

1970

1980

1990

2000

2010



TACOM's contractor for M113 M2/M3 spall liners

Deployed anti-mine armor on 3,000+ HMMWVs in Bosnia

Fielded 25,000 anti-mine protection systems for FMTV, PLS, HMMWV, M900 and M35A2

Qualified MRAP armor solution provider to Navistar

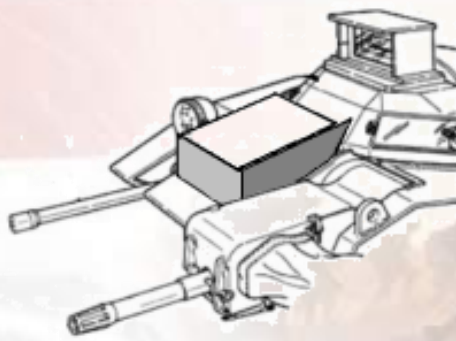
Awarded contract for lightweight, Mobile Observation Towers (MOTS) transparent and opaque armor

Awarded contract for lightweight, maritime spaced armor by ONR Mobility

USMC and SOCOM Subject Matter Experience



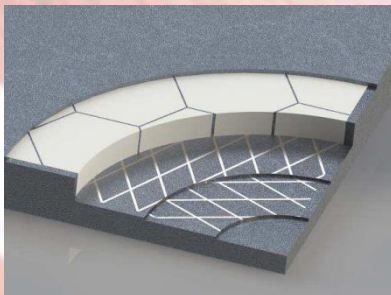
- In-house personnel with operational and maintenance experience for USMC-specific needs
- Detailed understanding of mobility and survivability doctrine of United States Marine Corps
- Conducted Alternative of Analysis on behalf of USMC Program Manager Amphibious Assault Vehicle System (AAVS) during 2011-2012 timeframe
- Conducted armor upgrade investigation for Program Manager AAVS
 - Provided recommendations to increase survivability/improve overall force protection
 - Developed zonal protection analysis and produced improved Up-Gun Weapons Station survivability
- Provided expert counsel to Government during ballistic material testing effort



USMC and SOCOM Subject Matter Experience



- Past Efforts include:
 - MRAP Add-on-Armor assessment
 - HMMM WV Armor Solutions (opaque and transparent)
 - Non-Standard Commercial Vehicle (NSCV)
 - Ballistic Testing and Certification
- Current/Future Efforts include:
 - Crew-Served Weapons Station Ballistic Shields – PEO Carriers
 - Critical Component Protection System
 - Multiple Impact Transparent Armor System
 - Legacy Gun Shields for Amphibious Ships
 - ONR 30 Maneuver Thrust - Light Weight Ballistic Protection for Maritime Security Forces
 - ONR RIF – Macro-Composite AAV Armor System (proposal pending)



Technical Capability



- **Multidisciplinary engineering staff**
- **Product development/manufacturing experience in:**
 - UHMWPE (e.g., Spectra®, Dyneema®)
 - Para-aramid (e.g., Twaron®, Kevlar®)
 - Ceramics (e.g., alumina, boron carbide, etc.)
 - Advanced alloys (e.g., magnesium, aluminum)
- **In-house ballistic testing range**
 - Up to .50 Cal
 - Advanced data capture
- **In-house radiography**



Manufacturing Assets



- **Multiple Autoclaves**

- 4' x 8' - 5' x 12'
- 6' x 10' - 8' x 15'

- **Paxcon® Coating**



- **Water Jet Cutting**

- 10' x 20' cutting area
- Dual heads
- 60 degree off-axis
- Parallel cutting capability



KINETIC RESOLVE



Manufacturing Capability

- Workforce experienced in composite fabrication and assembly
- 60,000 sq. ft. modular manufacturing space
- Cost competitive large and small volume production capability
- ISO 9001:2008 Certified
- Qualified sub-contractor base
- Facility and workforce *surge* capacity



Why Kinetic Protection?



- **Design and Manufacturing**
 - Competitive “build-to-print” solutions
 - State-of-the-art, custom engineered solutions
- **Surge Support Capability**
 - Key assets on site
 - Qualified sub-contractor base
 - Modular facilities
 - Rapidly expandable workforce
 - Headcount varies between ≈ 100 up to 425
- **Washington, D.C. Presence**
 - Excellent relationships with all four (4) defense committees
 - Excellent relationships with Florida and Alabama congressional delegations
 - Proven record of working in a coalition
 - Strong relationships with Pentagon personnel - Ground Combat Arms Office



Points of Contact



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