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A tradition of excellence for over 50 years

THE MARVIN GROUP

February 10, 2013 marked an exciting milestone for Marvin Engineering and The Marvin Group as we celebrated 50 years of dedication to our customers, community and team members. It was five decades ago that our founder Marvin Gussman had the inspiration to start a small machine shop in Inglewood, California and the rest is history.













Our Founder Circa 1965

Since that time, Marvin's leadership and business philosophies have formed a leadership team and organization that has guided the group into becoming one of the premier aerospace and defense manufacturers in the world.

With a 50-year foundation, The Marvin Group supports all branches of the Department of Defense and allies around the globe on an array of programs and platforms. Furthermore, we support all of the military prime contractors including Lockheed Martin, Boeing, Northrop Grumman, Raytheon and General Dynamics.

As we embark on our next half century, we will continue to invest in our team members, providing them with state-of-the-art equipment, facilities and resources to produce world-class solutions for our customers' existing and emerging needs.

THE MARVIN GROUP LAND AND MARITIME SOLUTIONS WORLDWIDE

<p>Marvin Engineering</p>   <p>Airborne Armament Equipment</p> <ul style="list-style-type: none"> - Bomb Racks - Ejector Racks - Missile Rail Launchers - Multiple Carriage Systems - Pylons - Aerostructures 	<p>Marvin Test Solutions</p>   <p>Test & Evaluation Systems</p> <ul style="list-style-type: none"> - Armament Test Sets - SMS Test Sets - Flight Line Testers - O&I Level Maintenance Testers - Depot Level Test Equipment 	<p>Flyer Defense</p>   <p>Tactical Vehicles</p> <ul style="list-style-type: none"> - Light Strike Armored or Unarmored - Rescue and Personnel Recovery - Reconnaissance - Anti-tank - C4ISR 	<p>Marvin Land Systems</p>   <p>Land & Maritime Systems</p> <ul style="list-style-type: none"> - Mission Critical Equipment Trailers and Shelters - Vehicle Environmental Systems - Auxiliary Power Units - Remote Weapons Stations 	<p>Lapeer Industries</p>   <p>Precision Manufacturing</p> <ul style="list-style-type: none"> - Mfg. Engineering - Laser/Plasma Cut - Sm/Lg Machining - Large Forming - Advanced Welding - Painting/Metalizing - Assembly/Kitting - Tooling/Fixtures
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Marvin Land Systems

Marvin Land Systems is an original equipment manufacturer (OEM) of Environmental Control Units (ECU) and Auxiliary Power Units (APU) for military applications. We have a rich history of successfully designing, fabricating and deploying lightweight ECUs, APUs, generators, NBC systems and propulsion cooling fans in addition to modification and overhaul kits for tanks and tracked vehicles.



Marvin Land Systems' in-house design and development team provides turnkey solutions in response to customers' complex requirements. Our extensive engineering capabilities include design and development, modeling and simulation, thermal and CFD design, structural analysis and rapid prototyping. Marvin Land Systems has proven capabilities in the areas of First Article and Qualification Testing, and provides technical assistance, training and logistics support.

Our systems provide mission-critical power and thermal management solutions to the warfighter in the harshest environments worldwide. The products are fielded on many tracked, wheeled and tactical vehicles including the M1 Abrams, M2/M3 Bradley, M992 FAASV, M270 MLRS, M113, Stryker, LAV, Avenger and MRAP.

Innovation. Quality. Tradition.

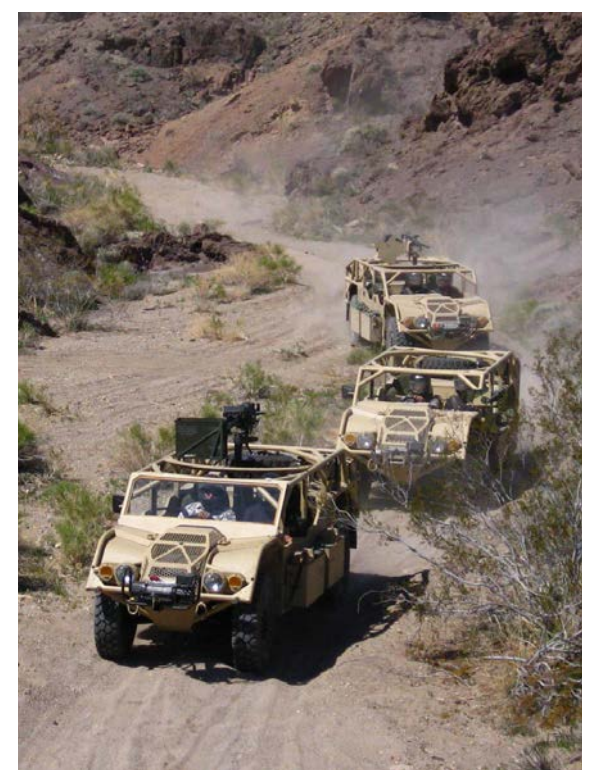
Field Proven Performance in Environmental Control and Auxiliary Power Systems for Military Applications

POWER UNITS						
	LOW PROFILE 10kW	STANDALONE 16kW	AIR-COOLED 8.5kW	TRUCK MOUNTED 5-12kW		
	COOLING SYSTEMS					
		CLIMATE CONTROL SYSTEM 15kW	AIR HANDLING UNIT	OVERPRESSURE NBC SYSTEM	CONDENSING UNIT 15.5kW	AIR CONDITIONER 10.5kW
FANS						
		PROPULSION COOLING 14,000 ACFM	HIGH PERFORMANCE 620VDC 10,630 ACFM	Marvin Land Systems is a proud supplier of the Hydraulic Oil Cooling System for the next generation Landing Craft Air Cushion Hovercraft for the US Navy's Ship-to-Shore Connector (SSC) program.		



Flyer Defense

Flyer Defense provides specially designed and customized advanced light tactical vehicles used by special operations and ground troops worldwide. Flyer Defense is a leader in mission specialized, high-performance, lightweight, off-road, wheeled military tactical vehicles, internally transportable by rotary and tilt wing aircraft.



The **Flyer Gen II Advanced Light Strike Vehicle**, a joint venture formed by Flyer Defense and General Dynamics Ordnance and Tactical Systems, is the USAF Pararescue's internally carried vehicle for operations from the CV-22. The Flyer 72 was selected by US Special Operations Command (SOCOM) to meet the GMV1.1 requirement, with an initial order of nearly 1,300 vehicles. The Flyer vehicle was developed to fill operational gaps in fixed and rotary wing ground mobility deployment requiring a lightweight, mobile, air transportable vehicle capable of being rapidly reconfigured to perform multiple missions such as light strike assault, rescue and evacuation, command and control and reconnaissance, either armored or unarmored. The Flyer vehicle's modular approach provides rapid mission capability in support of the warfighter.

Innovation. Quality. Tradition.

Innovative, Adaptable Tactical Vehicles with Superior Mobility



As a reliable and high performance vehicle, currently available in a 60" wide and 72" wide chassis, the Flyer offers safe and fast operating speeds with superior levels of mobility and maneuverability. It's highly adaptable to severe, rugged and restrictive terrains while providing off-road, cross-country mobility in all types of weather conditions.

Stability

- Low Dynamic Center of Gravity
- Meets NATO Lane Change at 53 mph

Transportability

- MV-22 (Internal for Flyer 60 and External)
- CH-53E (Internal and External)
- CH-47D (Internal and External)
- UH-60L/M (External)
- Air Deliverable

Tactical

- Rapid Mission Reconfiguration Modularity
- High Payload-to-Weight Ratio
- High Mobility/Agility

FLYER DEFENSE LLC
 In partnership with
GENERAL DYNAMICS
 Ordnance and Tactical Systems





Lapeer Industries

Founded in 1974, Lapeer Industries proudly supports the Defense, Aerospace, Energy and Commercial industries. As a vertically integrated manufacturing company, Lapeer Industries has expertise in **fabrication, automated welding, machining, painting, assembly, kitting, integration** and **program management**. Lapeer Industries has a proven track record in the production of quality components, structures, assemblies and complete vehicle capsules and hulls.



Lapeer Industries uses robust process controls throughout its operations to ensure every project meets or exceeds all of our customers' requirements and expectations. Part of this control process is having the ability to fully support each work statement within its 250,000 square feet of facilities, focusing on quality, delivery and continuous improvement initiatives.

Lapeer Industries supports Department of Defense (DoD) armored vehicle programs, including AAV, M1 Abrams, ASV, M2/M3 Bradley, FMTV, GMV1.1, M88 Hercules, HMMWV, MRAP, M109 Paladin, PIM and Stryker programs.

Innovation. Quality. Tradition.

Complete Armor Subsystems

Currently operating four facilities in Michigan, our DoD programs include the Bradley Family of Vehicles Armor modernization, the completely machined structure of BAE's Amphibious Combat Vehicle, and Raytheon's Commander's Independent Viewer for the Bradley A3.

For the MRAP program, Lapeer Industries has manufactured multiple components for 6,500 vehicles and is qualified to deliver structural armored configurations with precision machining and Chemical Agent Resistant Coating (CARC) finishes.



Lapeer Industries was selected by Textron Marine and Land Systems (TMLS) to produce the 40 mm / .50 cal. turret for the Iraqi and Afghan National Armies. Lapeer has produced over 3,000 turrets for TMLS to date.

Innovation. Quality. Tradition.



Depot and Sustainment

As an original equipment manufacturer of Alternate Mission/Alternate Armament and Aircraft Auxiliary Equipment, The Marvin Group provides life of program sustainment and support including training, spare parts, depot and repair services as well as upgrade/modernization options. Our **Configurable AME Repair Depot (CARD)**, initially designed as a self-contained, horizontal sustainment solution for 5th Generation and legacy aircraft, can be adapted for forward deployment use to maintain land and maritime platforms to optimize mission readiness and platform availability, reduce logistics footprints, and to provide capabilities previously unavailable in the field.

Sustainment customers Include:

- All Branches of the U.S. Armed Forces
- Foreign Military
- Domestic Primes
- Foreign Primes

Products Include:

- Ejector Racks
- Missile Rail Launchers
- Weapons Pylons
- Fuel Pylons
- Auxiliary Power Units (Land Vehicles)
- Environmental Control Systems (Land & Maritime)
- Test Equipment & Software Upgrades



In addition, The Marvin Group has successfully planned, designed and constructed multiple in-country repair and overhaul facilities including start-up support to meet the end users' sustainment needs.

Sustainment training packages are offered both at our facilities as well as in-country based on customer requirements.

Ground Vehicular Structures

Ground Vehicular Structures (GVS), an Integrated Products Team within Marvin Engineering, is a global supplier of hard shell Mobile Shelter Systems and ground support equipment. GVS offers products that enhance the end users' ability to mobilize, deploy, maneuver and sustain their missions.



26' x 8' Heated Platen Press for Foam & Beam Constructed Enclosures



Principal solutions include:

- Build-to-Print and/or SOW COTS Rigid Wall Foam and Beam Shelters and Enclosures
- Rapidly Deployable Technical Shelter Solutions
- Ground Support Equipment
- Ancillary Hardware and Spares
- Automated and Functional Electronic Test Systems
- Environmental Control Systems (ECS) & Thermal Management
- Auxiliary Power Units

In addition to our standard products, GVS specializes in custom-tailored configurations as well as custom integration, modification and reconfiguration of mobile shelter systems. We can provide testing, structural analysis and design engineering services including both ECS and APU design and integration.