LAND

GROUND ROBOTIC VEHICLES

MISSION FLEXIBILITY AND BATTLEFIELD AGILITY

Textron Systems has invested in designing, demonstrating and maturing ground robotic technologies that incorporate features for transportability, mission flexibility and battlefield agility. Ground robotic vehicles are the wingman of the battlefield. As technology advances, so does our ability to protect our troops. Unmanned ground robotic platforms give our soldiers the boost and assistance they need to continue the fight. Textron Systems and Howe and Howe Inc. have developed multiple ground robotic vehicles in a variety of size, weight and power profiles.

TEXTRON Systems

RIPSAW® M5

ROBOTIC VEHICLE

The RIPSAW® M5 can silently maneuver and keep pace with the current and future maneuver forces, pushing capabilities beyond the human formation. Designed with an open architecture and a flat deck to accommodate a variety of payloads, the M5 can be tailored for your mission. The M5 has undergone Soldier Operational Experiment testing and we have incorporated lessons learned into our other platforms. Soldier feedback and insight has allowed us to improve our vehicles to best serve our customer.

RIPSAW® M3

ROBOTIC VEHICLE

The RIPSAW® M3 incorporates the familiar large, open deck area from the RIPSAW® M5 robotic vehicle and 10kW of offload power provides the flexibility to support multiple lethality, RSTA, combat engineering and logistics payloads. With a powerful hybrid electric drivetrain and novel suspension, the RIPSAW® M3 provides unmatched mobility with over 180 miles of range. The M3 builds on the success of the RIPSAW M5 and incorporates lessons learned from solider experimentation into a smaller, but mission-capable variant. This vehicle also provides safety to the warfighter with built-in hardware and software safety redundancies to provide confident experimentation and operation.

ACES

ROBOTIC VEHICLE

The ACES robotic vehicle is the newest generation platform within the Ground Robotic family of vehicles. ACES incorporates the familiar flat-deck configuration, providing unobstructed deck space to accommodate multiple payloads. The ACES robotic vehicle is being built to address the wet gap crossing challenge that is being faced. This robotic vehicle has the ability to swim at 5 mph in water, and be fully submersible, providing mission agility support in never-before-seen ways. Backed by the expertise that built the M3 and M5, the ACES robotic vehicle will increase capabilities on all terrains.

RS2

SMALL UNMANNED GROUND VEHICLE

The RS2 is a high torque, hybrid diesel-electric drive designed to operate in the harshest of conditions while offering unprecedented endurance, reliability and mobility. The RS2 is able to effortlessly navigate difficult terrains ranging from dense jungle to scorching desert with a simple, easy-to-use wireless controller.

MODULAR DESIGN

The modular design of this system and its low-profile base platform allows integration of numerous mission packages including an improvised explosive device defeat rake, counter unmanned aircraft systems, remote weapons systems and “follow-me” autonomous control. Capable of offloading up to 4 kilowatts of power for mission critical equipment, this platform goes above and beyond, providing unmatched versatility and dependability to soldiers where they need it.

Sharing this vehicle’s core technology, the Thermite™ firefighting robot provides the firefighting community with innovative capabilities.

AUTONOMY

ROBOTIC SOFTWARE

With decades of experience as an industry leader in uncrewed technology, Textron Systems is committed to revolutionizing the future of robotic systems. Our cutting-edge Robotic Software Library is engineered to drive innovation and enhance operational efficiency across all domains. The Robotic Software Library accelerates the development of new robotic systems by providing a robust, modular foundation. With basic autonomy built in, you can streamline the integration process, allowing for faster deployment and reduced time to market. Whether developing new robotic systems or upgrading existing ones, our software library provides the foundation for rapid innovation and reliable performance, ensuring mission success across all operational domains.

KEY FEATURES INCLUDE

- **MODULAR OPEN-SOURCE COMMUNICATIONS INFRASTRUCTURE:**
  A highly adaptable open-source platform that ensures seamless integration and compatibility across varied systems and environments.
- **INTEGRATED MULTI-AGENT AUTONOMY ENGINE:**
  Supports both basic and advanced autonomous vehicle functions, simplifying the complexity of deploying autonomous capabilities in new or existing systems.
- **CROSS-DOMAIN UTILIZATION:**
  Our technology is versatile and applicable across air, land, sea, and underwater vehicles, making it adaptable to virtually any operational scenario.
- **CLOUD-BASED LOG INFRASTRUCTURE:**
  Provides extensive fleet management and data analysis capabilities, essential for maintaining operational integrity and informed decision-making.
- **PLATFORM AGNOSTIC:**
  Compatible with a wide range of hardware platforms, delivering unmatched flexibility in deployment.
- **INTEROPERABILITY SUPPORT:**
  Ensures standardized communication protocols with support for IOP JAUS, STANAG, and TAK standards, facilitating smooth interoperability between different systems.
- **SOFTWARE-DEFINED VEHICLE SUBSYSTEMS:**
  Includes modules for exportable power, thermal management, and signature management, enhancing overall system efficiency and effectiveness.

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SCAN FOR PRODUCT DETAILS