

## BRIMSTONE ON TRX UGV

### PRECISION SURFACE ATTACK OVERWATCH SYSTEM



**The challenges of the modern battlefield increasingly demand that tactical land forces have the organic capability to engage adversaries with precision at range and in volume.**

Brimstone offers 'one missile, multi-platform' versatility and is designed to be integrated onto helicopters, fixed wing aircraft (including fast jets), land vehicles, naval platforms and UAVs. The TRX UGV is a robust, electric-drive, tracked UGV that can carry a variety of mission payloads. The surface-launched Brimstone payload provides the tactical commander with the capability to deliver precision anti-armour effects at long ranges, with minimal integration, whilst maintaining the high mobility and autonomy of the TRX platform. The surface-launched Brimstone and TRX can be controlled through the full-range of options from remote control, teleoperation and semi/full autonomy.

#### Capability

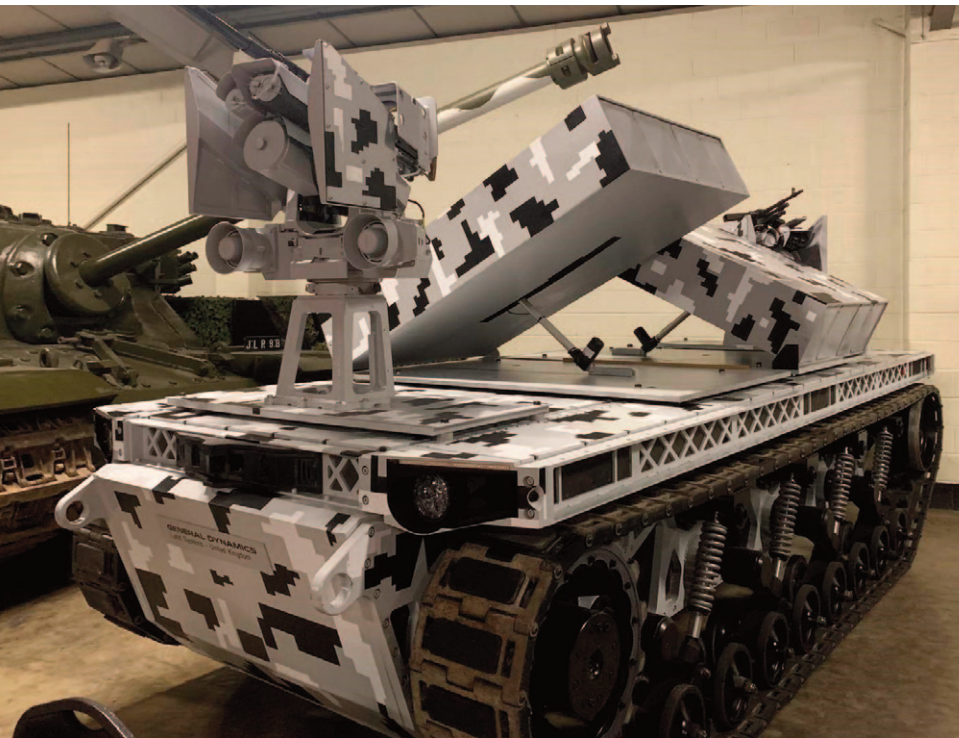
- Engaging quickly and effectively, the Brimstone/TRX payload allows for enhanced flexibility across light and heavy combat teams
- High loadout offers MBT denial and mobile counter-mass capability for a dispersed force
- Fire support in all weather, all terrain, day or night
- Persistent capability regardless of CBRN attacks
- Compact, allowing multiple options for theatre entry
- Rapid into/out of action times
- Broadside firing maximises missile range compared to vertical launched systems
- Line-of-sight or non-line-of-sight engagements
- High off-boresight agility
- Flexible engagement via third party targeting from a variety of sensor options within the battlespace
- Salvo launch option to achieve co-ordinated effects on multiple targets during a single mission

#### Effector – Brimstone

- Battle proven – over 98% success rate in defeating static, moving and manoeuvring target sets including MBTs and other armoured vehicles
- One common missile for all missions and platforms
- Organic battlegroup capability
- Low collateral damage in restrictive engagement scenarios
- All-weather fire-and-forget capability
- Defeats all known Defensive Aid Suites/ Active Protection Systems
- Extends effects coverage and points of presence
- Repels adversary formations and single point targets
- Simple integration into platform architectures
- Best in class Insensitive Munitions-compliant for safety

#### Platform – TRX UGV

- Low-profile inconspicuous Brimstone module silhouette disguises capability and ensures self defence weapon not impeded, giving increased platform survivability
- Missile efflux controlled vent produces a minimal launch signature compared to vertical launched systems
- Able to self-reload in action without the support of logistic equipment
- Rapid reload using standard battlefield support assets
- Communications capability with other friendly assets in the battlespace
- Options for integration with battlefield management system software



## Seeker

- W band millimetric Wave (mmW) radar
- Semi-Active Laser (SAL)

## Flexible modes of engagement

- SAL, SAL/mmW, mmW modes. In dual mode, SAL guidance can handover to mmW guidance for increased accuracy once the missile determines the exact target being designated
- Rapid salvo capability (mmW only mode) for area, column and point kill
- Point attack utilising mmW guidance for all-weather, low visibility engagements

## Effects

- Effective against a wide variety of targets for land (including all known conventional and reactive armour), maritime and air
- Low collateral damage in restrictive engagement scenarios

## Navigation and guidance

- Next generation IMU and autopilot for precision at range
- Inertial mid-course navigation and seeker determination for target acquisition
- High bandwidth guidance and agility for fast manoeuvring targets

## Propulsion

- Cast double base propellant rocket motor
- Strip steel laminate motor case

## Technical characteristics/specifications

<b>Weight:</b>	<b>50kg</b>
<b>Length:</b>	<b>1.8m</b>
<b>Diameter:</b>	<b>180mm</b>
<b>Guidance:</b>	<b>Millimetric wave radar and Semi-Active Laser</b>
<b>Warhead:</b>	<b>Tandem-shaped charge with adaptive fusing</b>

